

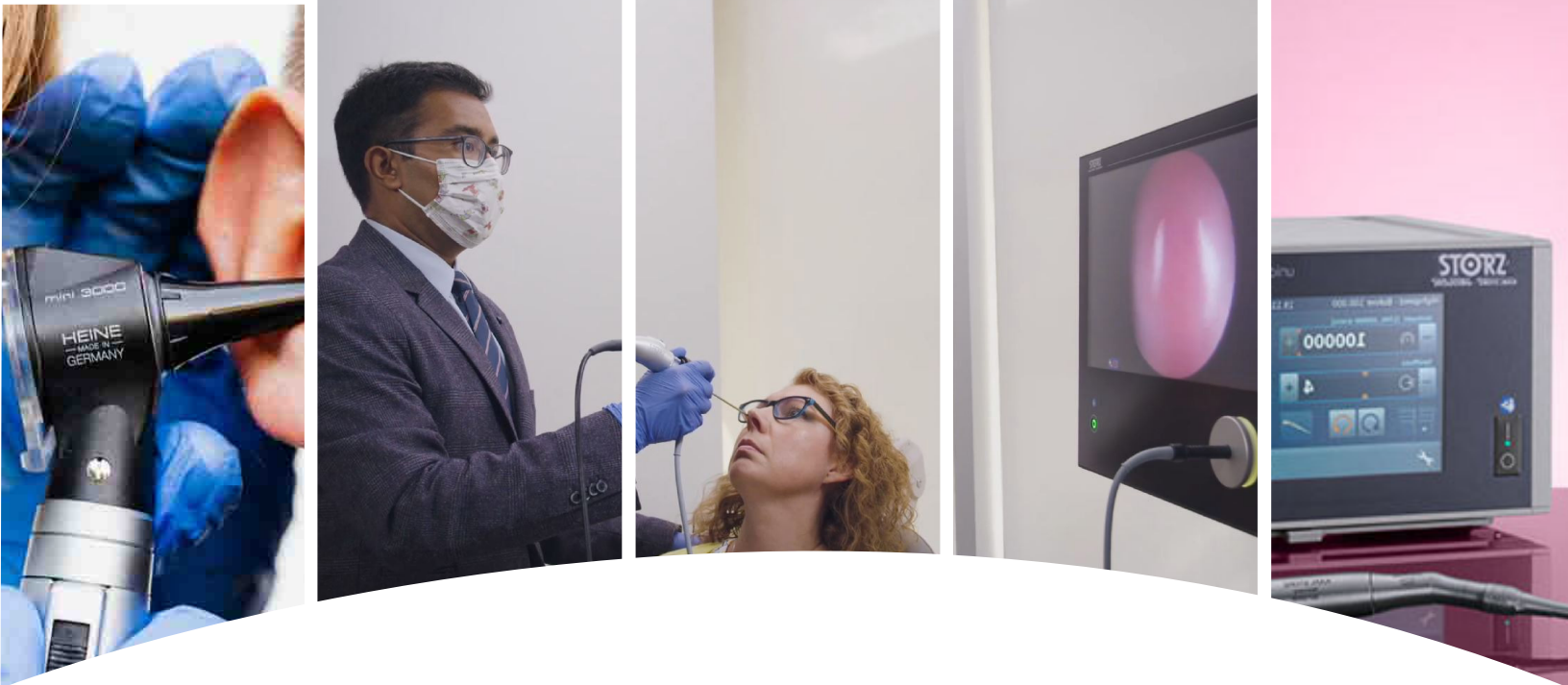


CATÁLOGO

Otorrinolaringología

- . Instrumental
- . Dispositivos médicos
- . Lavado y desinfección





Otorrinolaringología

Instrumental | Dispositivos médicos | Lavado y desinfección

Ofrecemos soluciones integrales para la especialidad de otorrinolaringología. Nuestro catálogo incluye una selección de productos de alta calidad de reconocidas marcas como Karl Storz, Heine y Nouvag y marcas especializadas para el lavado y desinfección tanto de instrumental como de espacios médicos.

Desde instrumental endoscópico avanzado hasta dispositivos de diagnóstico y equipos quirúrgicos de precisión, cada producto ha sido cuidadosamente elegido para proporcionar a los profesionales de la salud las herramientas necesarias para brindar atención médica de excelencia. Explore nuestra gama de soluciones innovadoras diseñadas para mejorar la precisión, eficiencia y resultados en el campo de la otorrinolaringología.

STORZ
KARL STORZ — ENDOSKOPE



NOUVAG⁺



borer

BIOBASE



Especialistas en
Esterilización y
Envase





Desinfección de alto nivel en sólo 10 - 12 minutos

SANIDEX OPA

Desinfectante de alto nivel para instrumental quirúrgico



Aclarado rápido para todos los dispositivos.



Reduce el riesgo de contaminación cruzada.



Uso seguro con caucho, plástico, metal o instrumentos con lentes.



Contiene un sistema de inhibición de corrosión, que optimiza la eficacia y la compatibilidad.



Composición:
Ortho - Phthalaldehyde 0,55% p/p.



¿Porqué utilizar Sanidex OPA?

Solución simple y lista para usar, no requiere dilución / activación. Eficaz contra sepas de glutaraldehído (Mycobacterium chelonae y Mycobacterium terrae).



Almacenamiento:
Conservar en su empaque original debidamente cerrado a una temperatura controlada (15° - 30°C)



Modo de aplicación:

Los instrumentos deben limpiarse a fondo, ser enjuagados y secados antes de utilizar la solución Sanidex OPA. Después de usar la solución Sanidex OPA, los instrumentos deben limpiarse a fondo antes de su uso.



Con múltiples enzimas para una rápida y completa penetración.



SANIZYME X

Multi enzimático para la limpieza de equipos médicos y quirúrgicos.



Amigable con el medio ambiente y rentable.



Biodegradable y fácil de usar.



Para uso en sistema automatizado y reprocesamiento manual.



pH neutro - No corrosivo - Se puede usar en limpieza de endoscopios



Composición:

- Proteasa • Lipasa
- Celulosa • Amilasa



Instrucciones de uso

- Para el uso en el sistema de limpieza automática:

Mínimo 4 ml por 1 litro de agua.

- Para la limpieza manual:

Mínimo 8 ml por 1 litro de agua.



Aplicación

- Para remojo y limpieza de instrumental médico y dispositivos reutilizables.
- Unidades de limpieza ultrasónica.
- Lavado de túneles y/o unidades de reprocesamiento automático de endoscopios.



Mata el 99.95% de microorganismos en solo 30 segundos.



SANISCRUB E

Desinfectante de manos de alto nivel

Alcohol + solución de gluconato de clorhexidina



Amplio espectro y actividad antimicrobiana persistente.



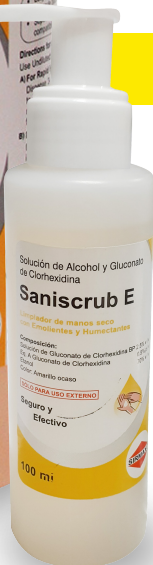
Previene la transferencia de patógenos asociados a enfermedades nosocomiales.



Reduce la presencia bacteriana en las manos más que el jabón.



Ofrece suavidad en la piel gracias a los hidratantes y emolientes de su formulación.



Modo de aplicación:

Provee una rápida desinfección y asepsia de manos y pies. Úselo sin diluir.



Composición:

Solución de Gluconato de Clorhexidina BP

2.5%v/v - Eq. A Gluconato de:

Clorhexidina 0.5%v/v

Etanol 70%v/v



Almacenamiento:

Almacenar a menos de 25°C, proteger de la luz.



Mata el 99,95% de los microbios en sólo 30 segundos.

Frote de manos con emoliente y crema hidratante.

Actividad residual prolongada hasta 6 horas.

Fórmula no pegajosa para una sensación suave y refrescante.

Por lo tanto, su aplicación fácil y rápida se puede utilizar entre pacientes y procedimientos.

No se necesita lavado ni toalla, por lo que se ahorra tiempo.

SIRMAXO



Con Persistente actividad antimicrobiana.



SANIQUAD M20

Jabón Quirúrgico para todas las áreas médicas



No irrita la piel



Efecto prolongado de 6 horas



efectivo en la reducción de la flora microbiana de la piel



Enriquecido con emoliente para un efecto de suavidad



Composición:

Solución de Gluconato de Clorhexidina IP 20% v/v
Equivalente a Gluconato de Clorhexidina al 4% v/v



Aplicación:

Jabón a base de gluconato de clorhexidina al 4% con emoliente hidratante.

Recomendada por el Centro para el Control y Prevención de enfermedades (CDC).



Instrucciones de uso

Actividad antimicrobiana persistente hasta 6 horas, evitando así el nuevo crecimiento de microbios en la piel.

Fiable para su uso en OT y UCI

Base rica en emolientes avanzados para prevenir las manos secas y agrietadas. Protección y mantenimiento de la integridad de la piel.

Excelente compatibilidad con la piel y no irrita la piel a diferencia de los productos que contienen yodo.



Efectivo para:
 -Áreas críticas -No críticas -Manejo de derrames -Ropa -Nebulización



SANIHIGENE

Desinfectante de alto nivel para ropa y superficies.



Desinfectante aéreo y de superficie libre de aldehídos, cloro y corrosión



Propiedades biodegradable



Ideal para pisos, paredes, mesas, camas, sillas y superficies



Áreas críticas como: UCI, CEYE, quirófano, emergencia, hemodialicis.



Composición:

- Hidrocloruro de Biguanida Polimerica < 10%
- Cloruro de Alquil Dimetil
- Bencilamonio
- Cloruro de Didecil Dimetil Amonio < 10%



Almacenamiento:

Conservar a menos de 30°C y mantener el envase bien cerrado.



Propiedades microbiológicas:

SaniHigene es un esporicida, micobactericida, fungicida virucida y bactericida, pseudomonacida, VIH, VHB, MRSA.

Áreas de aplicación

Áreas críticas:
OT, ICU, NICU, ICCU

Áreas no críticas:
Salas, pisos, paredes OPD, clínica y clínica dental, lavandería, emergencias, fumigación de vehículos.

Dilución

2% (10ml de SaniHigene en 1000ml de agua)

Tomar en cuenta que todas las áreas son críticas.

Tiempo de contacto

10 min.



SaniHigene 1 Litro



Obtenemos **100 Lts.** (Para áreas No Críticas)

1%



Obtenemos **500 Lts.** (Para áreas No Críticas)



Obtenemos **50 Lts.** (Para áreas Críticas)

2%



Obtenemos **250 Lts.** (Para áreas Críticas)





Atomice el producto y limpie con un paño



SANIOCID RF

Desinfectante de superficies



Secado sin residuos visibles



Ideal para áreas críticas como OT, VIH, UCI y clínicas dentales



Desinfección rápida de OT entre cirugías



Desinfectante de superficies a base de alcohol

Composición:

Cada 100 gms contiene:

- Propanol 22 gms
- Propanol 40 gms

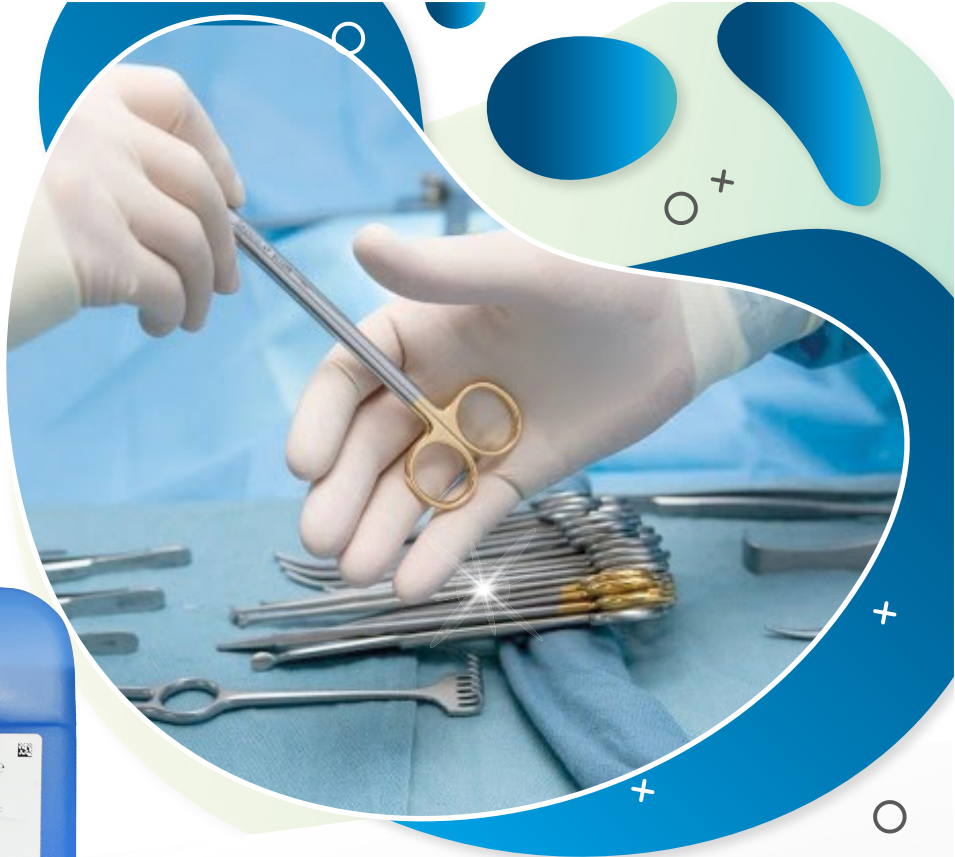
Instrucciones de uso

- Sature el paño con solución RF de Saniocid y limpie las superficies.
- Si se rocía el producto, limpie con un paño.
- Cuando las superficies se humedecen por completo, la solución es efectiva en 30 segundos.

Aplicación

SaniocidRF es adecuado para la realización de una desinfección rápida.

A través de su atomizador permite la pulverización de superficies, dispositivos médicos y secciones estériles. Se recomienda su uso en áreas de cirugía ambulatoria.



▶ DECONEX 42 KONZ

Para lubricación de instrumental quirúrgico de acero inoxidable.

- ✔ **Producto a base de aceite blanco medicinal y emulsificantes.**
- ✔ **Sin posibilidad de crecimiento de gérmenes en la capa de aceite.**



Almacenamiento

Almacene el producto entre 5 y 25 °C



Ingredientes

. Aceite blanco medicinal y emulsificante.



Dosificación

. 0.5-1 ml/l de agua de lavado en termo-desinfectadora.

. 10-20 ml/l de agua en lavado manual.



Modo de aplicación

El lubricante deconex 42 KONZ se utiliza en el último paso del aclarado del proceso del lavado del instrumental, a una temperatura como mínimo 50 °C.



Compatibilidad

- **Adecuado para:** Acero Inoxidable
- **No adecuado para:** Goma y látex

Para materiales no mencionados, por favor, realicen sus propios tests de compatibilidad.

Datos físico/químicos

| | | |
|-----------------|----------------------------|--|
| pH | 1% en agua desmineralizada | aprox. 5.0-7.5 |
| Densidad | concentrado | 0.86 g/ml |
| Aspecto | concentrado | líquido transparente, incoloro a ligeramente amarillento |



Especialistas en
Esterilización y
Envase



► BOLSAS AUTOSELLABLES

Bolsas de papel grado médico con
autosellado (con cierre por tira
auto adhesiva y doblado.)



Forma de uso

- . Introduzca el objeto que se va a esterilizar dentro de la bolsa.
- . Quite la cinta de papel que cubre el adhesivo en la parte abierta de la bolsa.
- . Pegue uniendo el plástico adhesivo, presione y recorra los dedos de un lado al otro sobre el área con adhesivo.



Instructivo de Uso

Importante: Cuando las flechas cambian de color (consulte en las bolsas los colores de cambio), indican que la bolsa fue sometido a un proceso de esterilización (Vapor, Gas O.E. o Formaldehído).



Condiciones mínimas para el cambio del color indicador

Vapor durante 15 minutos a 121°C, Gas O.E. durante 90 minutos a 54°C, Formaldehído durante 90 minutos a 78°C o durante 180 minutos a 54°C.

Medidas:

. 10cm x 135cm | 20cm x 33cm | 30cm x 38cm



Vida útil después de la esterilización

Bien sellada y empacada, sin daño en la bolsa y en condiciones adecuadas de almacenamiento hasta tres años.



Almacenamiento

Consérve en un lugar fresco y seco. No exponer a la luz solar, si el envase muestra daño antes o después de la esterilización, no se garantiza que el objeto se pueda usar.



► PAPEL GRADO MÉDICO

Rollo mixto de papel grado
médico y laminado plástico



- . Material fabricado con poliproleno de alta densidad.
- . Excelente resistencia de la penetración microbiana.
- . Resistentes al desgarre y perforación.



Rollo mixto de papel grado médico y laminado plástico, con porosidad controlada, hidrófugo, para esterilizar a vapor. Con o sin tratamiento que ayude a la formación de una barrera bacteriana. Con o sin apertura lateral. Con reactivo químico impreso.

3"

PAR361
(7.5cm x 200m)

4"

PAR362
(10cm x 200 m)

6"

PAR364
(15cm x 200 m)

8"

PAR365
(20cm x 200 m)

10"

PAR366
(25cm x 200 m)

12"

PAR367
(30cm x 200 m)

16"

PAR368
(40cm x 200 m)

20"

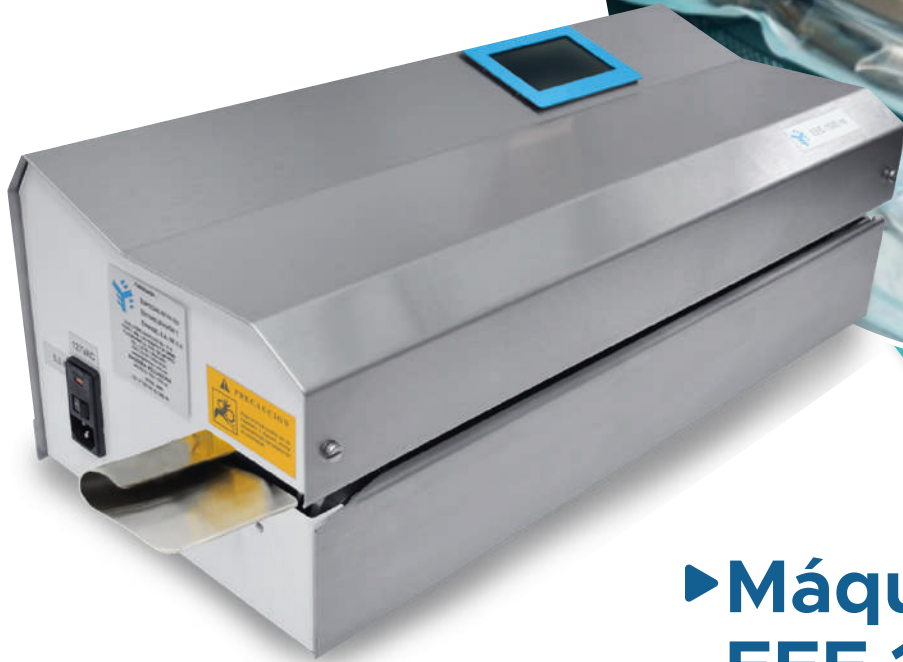
PAR369
(50cm x 200m)



► Selladora Automática para Papel de Esterilización

Selladora automática para papel de esterilización diseñada específicamente para el cierre por calor y presión en los envases grado médico para la esterilización

- ✓ Función de control automático y continuo.
- ✓ Temperatura controlada por microprocesador.
- ✓ Error de precisión $\pm 1\%$. Rango de temperatura de trabajo 60 ~ 220°C.
- ✓ Calentamiento rápido en 40 seg. Hasta 180°C.
- ✓ Sistema de poder fijo y ajustable.
- ✓ Apta para sellado de bolsas de papel y plástico.
- ✓ Apta para sellado de bolsas 3D papel y plástico.
- ✓ Apta para sellado de bolsas de papel.
- ✓ Avanzado sistema de calefacción en cerámica.
- ✓ Estabilidad a alta temperatura.
- ✓ Alta eficiencia y larga vida útil.
- ✓ Rápido sellado 10m/ min.
- ✓ Ancho banda de sellado 12 mm.
- ✓ Margen de sellado: 0 ~ 35 mm ajustable.
- ✓ Fuerza de sellado cumple norma YY/T 0698.5-2009.
- ✓ Voltaje 110 vol. - 50/60 Hz - 500 waticos



► Máquina Selladora EEE 1500MI

Selladora de empaques en continuo controlada por microprocesador. Diseñada específicamente para el cierre hermético por calor y presión de los envases grado médico para esterilización (bolsas de papel, bolsas y rollos mixtos con y sin fuelle de papel o Tyvek® de Dupont®) en el servicio de CEyE.

| Código | Descripción |
|------------|---|
| EEE1500MI | Máquina selladora |
| EEE0101 | Mesa móvil para máquina selladora con tablero de acero inoxidable, con freno y ganchos laterales para canastilla. |
| EEE0102 | Canastilla lateral de acero inoxidable |
| EEE0104 | Tablero deslizante de acero inoxidable. |
| EEE0110 | Mesa móvil con dos canastillas (EEE0101+EEE0102+EEE0102) |
| EEE0120 | Rack porta canastillas de acero |
| 1098-1009. | Cinta para impresión |

Características

- Fabricada en acero inoxidable con base esmaltada, con bandas transportadoras para permitir el sellado continuo por calor, área de calentamiento de sellado de 50 a 60 cm y ancho de 12 mm.
- Control de encendido de banda transportadora y de temperatura independientes.
- Modo automático y manual para el control de la banda transportadora (con movimiento bidireccional).
- Con microprocesador y módulo de impresión automática: fechas de preparación y caducidad, código y nombre de operario, No. de lote, No. de serie y texto. Con cinta para el módulo de impresión de fácil reemplazo.
- Control de temperatura en rango de 50 a 200 °C.
- Operación del menú vía pantalla táctil LCD, con despliegue de temperatura de sellado deseada y de trabajo.
- Funciones programables por el operario: horario y calendario (fecha de caducidad o preparación).
- Función de autodiagnóstico para el continuo control de proceso.
- Contador de bolsas que puede ser reinicializado.
- Alimentación eléctrica 120-127V, 50/60Hz.
- Dimensiones: 23 cm alto x 62 cm largo x 26 cm ancho
- Peso Bruto: 25 kg / Peso Neto: 21.2kg
- Incluye manual de usuario y de servicio.





► Autoclave de Mesa BKM-Z

El autoclave de mesa se puede utilizar para artículos médicos y quirúrgicos en clínicas de oftalmología, odontología y medicina interna, como artículos empaquetados, artículos huecos y porosos para esterilización, y también se puede utilizar en salas de emergencia y laboratorios pequeños.

Características

- ✓ **Tanque de agua integrado de tipo abierto**
El esterilizador adopta un tanque de agua de tipo abierto y fácil de limpiar que puede soportar la ejecución repetida de programas si se inyecta completamente con agua.
- ✓ **Vacío definitivo de alta eficiencia**
El esterilizador adopta un sistema de vacío silencioso y de alta eficiencia que tiene excelentes efectos.
- ✓ **Pantalla LCD grande para BKMZA/BKMZB**
La pantalla LCD puede mostrar temperatura, presión, tiempo, estado de funcionamiento, advertencia de falla y otra información.
- ✓ **Múltiples tipos de programas**
El sistema tiene varios programas que incluyen artículos empaquetados, artículos desempaquetados, programa de prueba de BD, programa de prueba de vacío y función de secado.

Parámetros Técnicos

| Modelo | BKM-Z12N | BKM-Z18N | BKM-Z24N |
|-------------------------|---|-----------------|-----------------|
| Capacidad | 12L | 18L | 24L |
| Tamaño de cámara | 200 x 360 | 245 x 350 | 245 x 450 |
| Clase de esteriliz. | Clase N (Acorde a EN 12060 Standard) | | |
| Temp. de esteriliz. | 121°C, 134°C | | |
| Procedimiento de secado | Secado por calor | | |
| Pantalla | Pantalla LED | | |
| Control de precisión | Temperatura: 1°C | | |
| | Presión: 0.1bar | | |
| Sistema deseguridad | Puerta con cerradura manual | | |
| | Válvula de presión en caso de sobre presión | | |
| | Protección de Presión o temperatura sobrecargada | | |
| | Alarma por fallo de sistema | | |
| Soporte de bandeja | Bandejas de acero inox. de 3 piezas en estante de acero inox. | | |
| Cámara | SUS304 | | |
| | Máxima presión de trabajo: 2.3bar | | |
| | Mínima presión de trabajo: 1.1bar | | |
| | Temperatura máxima: 145°C | | |
| Temperatura de ambiente | 5-40°C | | |
| Ruido | <50dB | | |
| Poder | 1600W por 220V, 1200W por 110V | | |
| Fuente de alimentación | Standar: 220V±10%, 50/60Hz; opcional: 100V±10%, 50/60Hz. | | |
| Tamaño externo | 560 x 450 x 400 | 560 x 450 x 400 | 670 x 450 x 400 |
| Tamaño del paquete | 650 x 515 x 470 | 650 x 515 x 470 | 760 x 515 x 470 |
| Peso bruto | 38 | 40.5 | 45.5 |

TELE PACK +

Endoscopia compacta

DISPLAY +

LIGHT +

CAMERA +

DOCU +

NETWORK +

TELE PACK +

Endoscopia compacta

TELE PACK+ es un sistema «todo en uno» portátil y compacto que se compone de un monitor, una fuente de luz LED, una unidad de control de cámara FULL HD, una función de documentación, así como función de red integrada. Una gran ventaja es su compatibilidad con un gran número de endoscopios rígidos, flexibles y para un solo uso. TELE PACK+ puede ser utilizado tanto en consultorios médicos como en clínicas, en los servicios de urgencias, en unidades de cuidados intensivos y en ambulancias.

DISPLAY +

Pantalla táctil de 18,5" +

Teclado en pantalla +

FULL HD +

La superficie de cristal sin aristas permite +
la limpieza fácil de la pantalla

Manejo sencillo gracias a la navegación +
intuitiva del menú y la interfaz de usuario
autoexplicativa

LIGHT +

Fuente de luz LED integrada +

Iluminación brillante y homogénea +

Control automático de la fuente de luz +





CAMERA +

- + Es posible conectar endoscopios rígidos, flexibles y para un solo uso
- + Compatible con los endoscopios X-LINE y C-LINE

DOCU +

- + Para la grabación de los datos del paciente se puede elegir entre la memoria interna, un dispositivo de memoria USB o bien por medio de la función de integración a la red
- + Transferencia cifrada de los datos del paciente
- + Gestión de datos del paciente
- + Memoria interna de 50 GB

NETWORK +

- + La función de red puede utilizarse tanto en el modo "File Share" (compartición de archivos) como en el modo "lista de trabajo"
- + Exportación e importación de los datos del paciente de/hacia el HIS / PACS

Antes de realizar una intervención quirúrgica, se recomienda verificar si ha elegido el producto idóneo.



NOUVAG⁺

Otorrinolaringología

Cirugía



nouvag.com

Sistema de perforación ENT Shaver





Principio de doble motor



Oscilante regulable
máquina de afeitar 300 - 5000 rpm



Simple y
intuitivo

HighSurg 30 es nuestra oferta completa para la cirugía ORL motorizada. HighSurg30 se puede utilizar en combinación con componentes de cirugía ORL como motores electrónicos y piezas de mano para adaptarse perfectamente a sus indicaciones.

Pieza de mano de afeitado ORL

La pieza de mano ENT Shaver híbrida liviana y ergonómica representa un uso sin estrés en la cirugía ENT mínimamente invasiva.

Se está utilizando para el afeitado y la eliminación de tejido, tejido duro o hueso. Nuestra hoja de rasurado simplemente succiona el tejido a través de la ventana de corte hacia el lumen de la pieza de mano.

Debido a la potente rotación del tubo interior, el tejido succionado se elimina a través de un canal de succión de "canal recto" en el extremo de la pieza de mano.

Nuestro mecanismo de bloqueo y rotación de la punta permite girar y bloquear fácilmente la cuchilla en su lugar para un acceso seguro y ergonómico al área de operación.



Baja vibración y piezas de mano ligeras



Fácil de usar

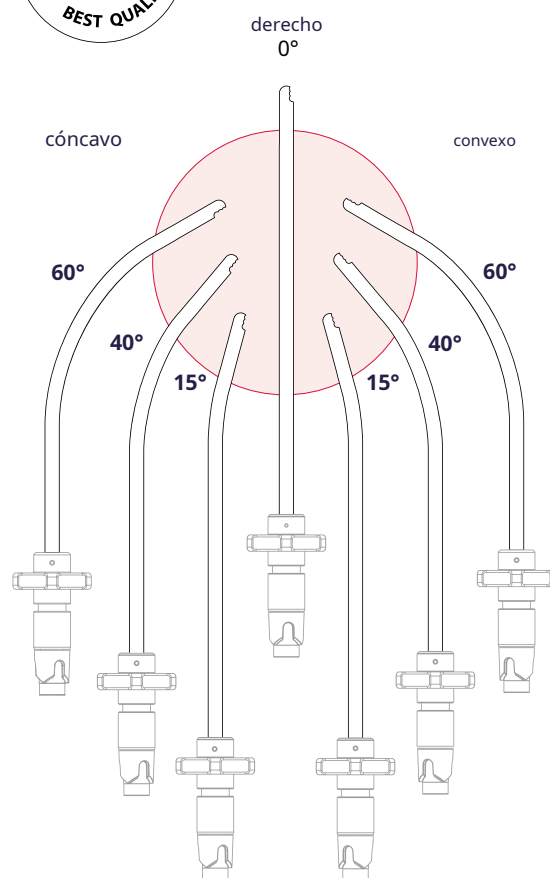


Confiable y duradero

Cuchillas de afeitado ORL



| | mm de diámetro | Posición | Ángulo | Longitud mm | ARBITRO |
|----------------------------|----------------|----------|---------|-------------|---------|
| Resector de radio completo | 2.5 | | derecho | 105 | 5318 |
| | 3.5 | | derecho | 105 | 5294 |
| | 3.5 | cóncavo | 15° | 105 | 5300 |
| | 3.5 | convexo | 15° | 105 | 5303 |
| | 3.5 | cóncavo | 40° | 105 | 5306 |
| | 3.5 | convexo | 40° | 105 | 5309 |
| | 3.5 | cóncavo | 60° | 105 | 5312 |
| | 3.5 | convexo | 60° | 105 | 5315 |
| | 4.0 | | derecho | 105 | 5340 |
| | 4.0 | cóncavo | 15° | 105 | 5350 |
| | 4.0 | convexo | 15° | 105 | 5359 |
| | 4.0 | cóncavo | 40° | 105 | 5352 |
| | 4.0 | convexo | 40° | 105 | 5361 |
| | 4.0 | convexo | 60° | 105 | 5354 |
| | 4.0 | convexo | 60° | 105 | 5363 |
| | 4.5 | | derecho | 105 | 5324 |
| completo agresivo Radio | 2.5 | | derecho | 105 | 5322 |
| | 3.5 | | derecho | 105 | 5295 |
| | 3.5 | cóncavo | 15° | 105 | 5301 |
| | 3.5 | convexo | 15° | 105 | 5304 |
| | 3.5 | cóncavo | 40° | 105 | 5307 |
| | 3.5 | convexo | 40° | 105 | 5310 |
| | 3.5 | cóncavo | 60° | 105 | 5313 |
| | 3.5 | convexo | 60° | 105 | 5316 |
| | 4.0 | | derecho | 105 | 5344 |
| | 4.0 | cóncavo | 15° | 105 | 5349 |
| | 4.0 | convexo | 15° | 105 | 5358 |
| | 4.0 | cóncavo | 40° | 105 | 5351 |
| | 4.0 | convexo | 40° | 105 | 5360 |
| | 4.0 | cóncavo | 60° | 105 | 5353 |
| | 4.0 | convexo | 60° | 105 | 5362 |
| | 4.5 | | derecho | 105 | 5330 |
| Cortador de tres puntas | 2.5 | | derecho | 105 | 5320 |
| | 3.5 | | derecho | 105 | 5296 |
| | 3.5 | cóncavo | 15° | 105 | 5302 |
| | 3.5 | convexo | 15° | 105 | 5305 |
| | 3.5 | cóncavo | 40° | 105 | 5308 |
| | 3.5 | convexo | 40° | 105 | 5311 |
| | 3.5 | cóncavo | 60° | 105 | 5314 |
| | 3.5 | convexo | 60° | 105 | 5317 |
| | 4.0 | | derecho | 105 | 5342 |
| | 4.0 | cóncavo | 15° | 105 | 5346 |
| | 4.0 | convexo | 15° | 105 | 5355 |
| | 4.0 | cóncavo | 40° | 105 | 5347 |
| | 4.0 | convexo | 40° | 105 | 5356 |
| | 4.0 | cóncavo | 60° | 105 | 5348 |
| | 4.0 | convexo | 60° | 105 | 5357 |
| | 4.5 | | derecho | 105 | 5328 |
| Recortadora | 2.5 | | derecho | 105 | 5290 |
| | 3.5 | | derecho | 105 | 5291 |
| | 4.0 | | derecho | 105 | 5292 |



Cuchillas de afeitar para Rinología

| | mm de diámetro | Posición | Ángulo | Longitud mm | ARBITRO |
|----------------------------------|----------------|----------|---------|-------------|---------|
| Fresa de rosa de rinoceronte | 3.5 | | derecho | 130 | 5272 |
| | 3.5 | cóncavo | 15° | 130 | 5273 |
| | 3.5 | cóncavo | 60° | 130 | 5274 |
| rinoceronte cilíndrico Rebaba | 3.5 | | derecho | 130 | 5275 |
| | 3.5 | cóncavo | 15° | 130 | 5276 |
| | 3.5 | cóncavo | 60° | 130 | 5277 |
| Fresa de diamante de rinoceronte | 3.5 | cóncavo | 15° | 130 | 5271 |

Actualmente, las cuchillas de afeitado ORL solo están disponibles para la venta en países seleccionados. Consútenos para obtener más información detallada si está interesado en comprar.



Inspirado en el cuerpo humano.

NOUVAG+

Microsierras para Cirugía ORL

15000rpm

Piezas de mano Micro Saw con alta potencia de torque para todos los procedimientos funcionales o estéticos en Cirugía Nasal para aserrar y raspar.



MSS 5000

La sierra Micro Compás desarrollada aún más funciona con un recorrido de 4 mm a 75 recorridos por segundo, lo que mejora significativamente el rendimiento de corte, ideal para la osteotomía lateral con hoja de sierra 5112nou.

MOS 5000

La Micro Sierra Sagital tiene una frecuencia de oscilación de 250 ciclos por segundo. Las hojas de sierra a menudo se doblan para que coincidan con el ángulo correcto de un corte previsto.

OMS 5000

La Micro Sierra Oscilante trabaja con una frecuencia de 250 oscilaciones por segundo – ideal para Osteotomía Intermedia.

Sierra sagital
MOS 5000
Peso
Oscilación
ángulo

ÁRBTR0:
5110nou
122 gramos
5°

Microbrújula
Sierra MSS 5000
Peso
Ataque

REF: 5040nou
122 gramos
4mm

sierra oscilante
OMS 5000
Peso
Oscilación
ángulo

REF: 5090nou
142 gramos
25°

Cuchillas de sierra

Hojas de sierra para:
Sierra de calar micro, MSS 5000



ÁRBETRO:
5049rnou
1 de cada

Colocar

| Cuchillas de sierra | Campo de uso/ Forma | Útil longitud | UP* | ÁRBETRO estéril | ÁRBETRO no estéril |
|---------------------|------------------------|------------------|-----|--------------------|-----------------------|
| | Rinología | 6mm | 1 | 5112snou | 5112rnou |
| | derecho | 38mm | 1 | 5113snou | 5113rnou |
| | derecho | 26mm | 5 | 5045snou | 5045rnou |
| | derecho | 22mm | 5 | 5044snou | 5044rnou |
| | derecho | 18mm | 5 | 5043snou | 5043rnou |
| | derecho | 14mm | 5 | 5042snou | 5042rnou |
| | derecho | 11mm | 5 | 5041 | 5041rnou |
| | redondeado | 17mm | 5 | 5105snou | 5105rnou |
| | redondeado | 21mm | 5 | 5106snou | 5106rnou |

* UE: Unidad de embalaje

Hojas de sierra para:
Microsierra oscilante, OMS 5000



| Hoja de sierra | Corte profundidad | Útil ancho | Longitud del mango 33mm | Longitud del mango 45mm | UP* | ÁRBETRO estéril | ÁRBETRO no estéril |
|----------------|----------------------|---------------|----------------------------|----------------------------|-----|--------------------|-----------------------|
| | 3,0 mm | 6,0 mm | - | • | 1 | 5101 | 5101nou |
| | 6,3 mm | 6,0 mm | • | - | 1 | 5100snou | 5100rnou |
| | 6,3 mm | 6,0 mm | - | • | 1 | 5099snou | 5099rnou |
| | 13,3 mm | 6,0 mm | • | - | 1 | 5093snou | 5093rnou |
| | 13,3 mm | 6,0 mm | - | • | 1 | 5096snou | 5096rnou |
| | 13,3 mm | 10,0 mm | • | - | 1 | 5094snou | 5094rnou |
| | 13,3 mm | 10,0 mm | - | • | 1 | 5097snou | 5097rnou |
| | 13,3 mm | 15,0 mm | • | - | 1 | 5095snou | 5095rnou |
| | 13,3 mm | 15,0 mm | - | • | 1 | 5098snou | 5098rnou |

* UE: Unidad de embalaje

Hojas de sierra para:
Sierra sagital, MOS 5000



ÁRBETRO:
5120rnou
1 de cada

Colocar

| Cuchillas de sierra | Forma | Corte ancho | Útil profundidad | UP* | ÁRBETRO estéril | ÁRBETRO no estéril |
|---------------------|------------|----------------|---------------------|-----|--------------------|-----------------------|
| | derecho | 4mm | 12mm | 5 | 5115 | 5115rnou |
| | derecho | 6mm | 12mm | 5 | 5116 | 5116rnou |
| | redondeado | 6mm | 12mm | 5 | 5114snou | 5114rnou |
| | derecho | 6mm | 17mm | 5 | 5117 | 5117rnou |
| | derecho | 10mm | 17mm | 5 | 5118 | 5118rnou |
| | derecho | 12mm | 29mm | 5 | 5119snou | 5119rnou |

* UE: Unidad de embalaje

50 000 rpm

1:1 Piezas de mano de cirugía

Estas piezas de mano están disponibles en varias longitudes y en versiones rectas y en ángulo.

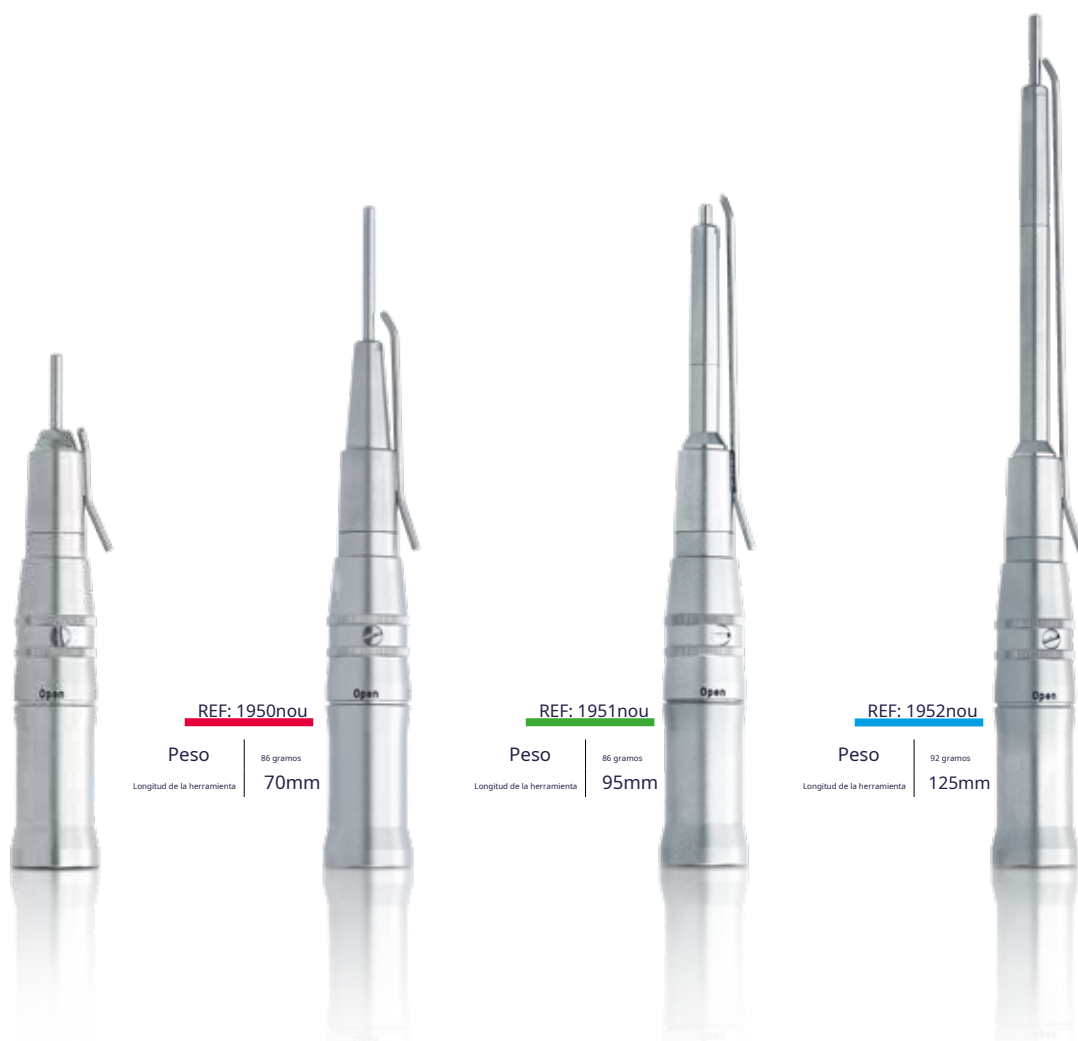
Nuestras piezas de mano de acoplamiento rápido están perfectamente equilibradas con baja vibración para un trabajo sin fatiga y tienen una línea de irrigación giratoria.

Esas características aseguran que las piezas de mano se puedan utilizar en varios tipos de operaciones.



Inspirado en el cuerpo humano.

NOUVAG+



REF: 1710nou

| | | |
|----------------------------|--|------|
| Peso | | 80g |
| Longitud de la herramienta | | 44mm |

REF: 1950nou

| | | |
|----------------------------|--|-----------|
| Peso | | 86 gramos |
| Longitud de la herramienta | | 70mm |

REF: 1951nou

| | | |
|----------------------------|--|-----------|
| Peso | | 86 gramos |
| Longitud de la herramienta | | 95mm |

REF: 1952nou

| | | |
|----------------------------|--|-----------|
| Peso | | 92 gramos |
| Longitud de la herramienta | | 125mm |



Fresas para piezas de mano ORL



| | Diámetro de la cabeza, milímetro | Número de flautas | Longitud del mango | | |
|---------------------------------|----------------------------------|-------------------|---------------------|---------------------|----------------------|
| | | | Fresa REF de 70 mm: | Fresa REF de 95 mm: | Fresa REF de 125 mm: |
| rebaba de rosa, Acero | 0.8 | 6 | RS.070.008 | • | • |
| | 1.0 | 12 | RS.070.010 | • | • |
| | 1.4 | 8 | RS.070.014 | RS.095.014 | RS.125.014 |
| | 1.8 | 8 | RS.070.018 | RS.095.018 | RS.125.018 |
| | 2.3 | 8 | RS.070.023 | RS.095.023 | RS.125.023 |
| | 2.7 | 10 | RS.070.027 | • | • |
| | 3.1 | 10 | RS.070.031 | RS.095.031 | RS.125.031 |
| | 4.0 | 12 | RS.070.040 | RS.095.040 | RS.125.040 |
| | 5.0 | 12 | RS.070.050 | RS.095.050 | RS.125.050 |
| | 6.0 | 14 | RS.070.060 | RS.095.060 | RS.125.060 |



| | | | | | |
|-----------------------------------|-----|-----------|------------|------------|------------|
| rebaba de rosa, Carburo | 0.5 | 6 | RC.070.005 | RC.095.005 | • |
| | 0.8 | 6 | RC.070.008 | RC.095.008 | • |
| | 1.0 | 6 | RC.070.010 | RC.095.010 | • |
| | 1.4 | 6 | RC.070.014 | • | • |
| | 1.8 | 6 | RC.070.018 | RC.095.018 | • |
| | 2.3 | 6 | RC.070.023 | RC.095.023 | RC.125.023 |
| | 2.7 | 8 | RC.070.027 | • | • |
| | 3.1 | 8 | RC.070.031 | RC.095.031 | RC.125.031 |
| | 3.5 | 8 | RC.070.035 | RC.095.035 | • |
| | 4.0 | 10 | RC.070.040 | RC.095.040 | RC.125.040 |
| | 5.0 | 12 | RC.070.050 | RC.095.050 | RC.125.050 |
| | 6.0 | 14 | RC.070.060 | • | • |
| | 7.0 | dieciséis | RC.070.070 | • | • |



rebabas de diamante

| | Diámetro de la cabeza, milímetro | Longitud del mango | | |
|---------------------------|----------------------------------|--------------------|--------------------|---------------------|
| | | REF rebabas: 70 mm | REF rebabas: 95 mm | REF rebabas: 125 mm |
| Fresa de bola de diamante | 0.6 | DA.070.006 | DA.095.006 | DA.125.006 |
| | 0.8 | DA.070.008 | DA.095.008 | DA.125.008 |
| | 1.0 | DA.070.010 | DA.095.010 | DA.125.010 |
| | 1.4 | DA.070.014 | DA.095.014 | DA.125.014 |
| | 1.8 | DA.070.018 | DA.095.018 | DA.125.018 |
| | 2.3 | DA.070.023 | DA.095.023 | DA.125.023 |
| | 2.7 | DA.070.027 | DA.095.027 | • |
| | 3.1 | DA.070.031 | • | DA.125.031 |
| | 3.5 | DA.070.035 | DA.095.035 | • |
| | 4.0 | DA.070.040 | DA.095.040 | DA.125.040 |
| | 4.5 | DA.070.045 | • | DA.125.045 |
| | 5.0 | DA.070.050 | DA.095.050 | DA.125.050 |
| | 6.0 | DA.070.060 | DA.095.060 | DA.125.060 |
| | 7.0 | DA.070.070 | • | • |



Diversas formas

| | Diámetro de la cabeza, milímetro | Número de flautas | Laboral longitud, milímetro | Longitud del mango | | |
|--|----------------------------------|-------------------|-----------------------------|---------------------|---------------------|----------------------|
| | | | | Fresa REF de 70 mm: | Fresa REF de 95 mm: | Fresa REF de 125 mm: |
| Taladro de paso de alambre Carburo | 1.0 | 2 | 10.0 | • | WD.095.010 | WD.125.010 |
| | 1.2 | 2 | 10.0 | • | WD.095.012 | WD.125.012 |
| | 1.5 | 2 | 6.6 | • | • | WD.125.015 |
| Broca espiral, carburo | 1.5 | 2 | 20.0 | • | SD.095.015 | • |
| | 2.0 | 2 | 20.0 | SD.070.020 | SD.095.020 | • |
| | 1.5 | 2 | 6.0 | SD.070.015 | • | • |
| | 1.5 | 2 | 8.0 | SDD.070.015 | • | • |



Motor electrónico 21

50 000 rpm

Micromotor duradero y de alta potencia con rendimiento constante y cómodo uso gracias a su autoventilación direccional. Control de par eléctrico integrado para estabilización o incremento de velocidad durante tareas exigentes.



REF 2099nou: Motor electrónico 21



Inspirado en el cuerpo humano.

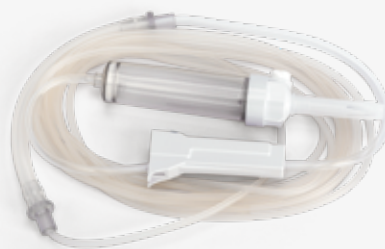
NOUVAG⁺

Accesorios



REF: 1029: Maleta con espuma para HighSurg 11 y HighSurg 30

REF 1898: Vexio Cart, Carro moderno con dos estantes y ruedas antiestáticas bloqueables y canal de cable integrado a la fuente de alimentación con 3 tomas de corriente. (**REF 1894:** El portabotellas es opcional)



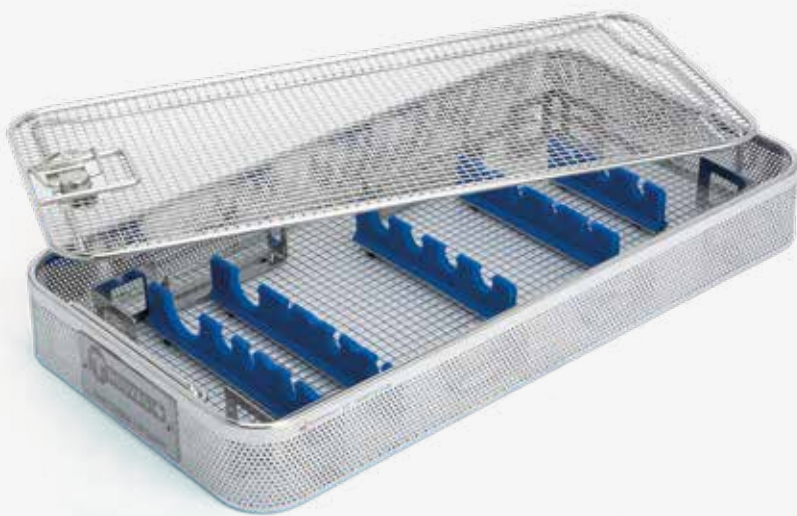
REF 6024: Juego de tubos para la bomba peristáltica de HighSurg 11 y HighSurg 30



REF 2127: Spraynet para limpieza previa, durante el procedimiento de reprocesamiento



REF 2128: Spray de mantenimiento y cuidado Lubrifluid, para usar durante el procedimiento de reprocesamiento



Cesta de esterilización con la esterilización del otorrinolaringólogo s, Microsierras, Shaver handpiec- Motor electrónico.

Tapa opcional para esterilización

Cesta





HEINE

Catálogo general

2024 | V2

Otoscopios HEINE

Sinopsis

Naturalmente, todos nuestros otoscopios son magníficos. No obstante, se diferencian en algún que otro detalle. Aquí le presentamos de forma resumida cuáles son esos detalles y todas sus ventajas:



| | BETA 400 F.O. Otoscopio de gama alta | BETA 200 F.O. Otoscopio estándar | K180 F.O. Otoscopio básico | mini 3000 F.O. Otoscopio de bolsillo | mini 3000 Otoscopio de bolsillo |
|---|---|--|--------------------------------------|--|---|
| | Alta definición | Vista general más rápida | | Compacto y móvil | Compacto y móvil |
| Definición | muy alta | alta | suficiente | buena | suficiente |
| Ventana de visualización | vidrio | | acrílica | | |
| Aumentos | 4,2x | 3x | | | |
| Iluminación | F.O. LED ^{HQ} | | | F.O. XHL o LED ^{HQ} | directa XHL |
| Construcción de la caja exterior | metálica | | policarbonato | | |
| Opciones de manejo fuentes de tensión | mango a pilas mango recargable USB, mango recargable con cargador de mesa, EN 200 EN 200-1 | | | mango a pilas, mango recargable con cargador de mesa | |
| Espéculos | espéculos de uso continuo, espéculos desechables AllSpec | | | | |
| Prueba neumática de la movilidad de la membrana timpánica | conexión para insuflador disponible | | | conexión para insuflador disponible, el puerto de conexión del insuflador requis | – |
| Página del catálogo | 7 | 9 | 11 | 13 | 18 |

Otoscopio F.O. HEINE BETA® 400 LED

En resumen: nuestro instrumento de gama alta con 4,2 aumentos



Durabilidad excepcional combinada con nuestro nivel máximo de 4,2 aumentos. Iluminación especialmente brillante gracias al LED^{HQ}. Los otoscopios BETA son el resultado de una evolución y una mejora continua hasta el más mínimo detalle y donde no dejamos nada al azar.

LA IMAGEN CON MAYOR DEFINICIÓN

- ▶ Identificación sencilla de estructuras anatómicas y cuerpos extraños gracias a los 4,2 aumentos
- ▶ Magnífica representación espacial gracias a la gran nitidez en profundidad
- ▶ Imágenes nítidas gracias a las lentes de precisión
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Lentes de cristal a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias al LED^{HQ}

MANEJO INTUITIVO

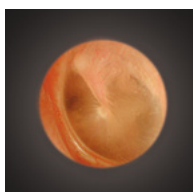
- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Fácil uso gracias al sistema óptico abatible integrado fijo
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba neumática de tímpano mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

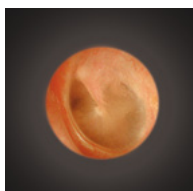
- ▶ Batería recargable: con cargador de mesa o USB
- ▶ La plena funcionalidad del BETA 400 LED está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1

- ▶ Práctico y ampliable con otros cabezales de HEINE

- ▶ **Un espejito para un futuro mejor.** Los espejitos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)



Otoscopio F.O. BETA 400 LED con 4,2 x aumentos



Otoscopio convencional

Otoscopio F.O. HEINE BETA® 400 LED

Sets | kits de diagnóstico

Set incluye: otoscopio BETA 400 de F.O.,

1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø, estuche rígido



[01]

| | 2,5V LED | 3,5V LED |
|--|---------------------|---------------------|
| BETA mango a pilas | B-143.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe | - | B-143.28.388 |
| BETA4 NT mango recargable con cargador de mesa NT4 [01] | - | B-143.24.420 |

Kit incluye: otoscopio BETA 400 de F.O.,

10 AllSpec espéculos desechables de 4 mm Ø



[02]

| | 2,5V LED | 3,5V LED |
|---|---------------------|---------------------|
| BETA mango a pilas | B-010.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [02] | - | B-010.28.388 |
| BETA4 NT mango recargable con cargador de mesa NT4 | - | B-010.24.420 |

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

Otoscopio F.O. HEINE BETA® 200 LED

Instrumento estándar para una vista general rápida



Durabilidad excepcional combinada con un aumento óptimo. Iluminación especialmente brillante gracias al LED^{HQ}. Los otoscopios BETA son el resultado de una evolución y una mejora continuas hasta el más mínimo detalle y donde no dejamos nada al azar.

VISTA GENERAL MÁS RÁPIDA

- ▶ Magnífica representación espacial gracias a la máxima nitidez en profundidad
- ▶ Imágenes nítidas y sin distorsiones gracias a la ventana de visualización de cristal corregida varias veces
- ▶ 3 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Lentes de cristal a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias LED^{HQ}

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Fácil uso gracias a la ventana de visualización orientable integrada fija
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba de tímpano neumática mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
- ▶ La plena funcionalidad del BETA 200 LED está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1
- ▶ Práctico y ampliable con otros cabezales de HEINE
- ▶ **Un espejo para un futuro mejor.** Los espejos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)

Otoscopio F.O. HEINE BETA® 200 LED

Sets | kits de diagnóstico



[01]

Set incluye: otoscopio F.O. BETA 200,

1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø, estuche rígido

| | 2,5V LED | 3,5V LED |
|--|---------------------|---------------------|
| BETA mango a pilas | B-141.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe | - | B-141.28.388 |
| BETA4 NT mango recargable con cargador de mesa NT4 [01] | - | B-141.24.420 |



[02]

Kit incluye: otoscopio F.O. BETA 200,

10 AllSpec espéculos desechables de 4 mm Ø

| | 2,5V LED | 3,5V LED |
|---|---------------------|---------------------|
| BETA mango a pilas | B-011.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [02] | - | B-011.28.388 |
| BETA4 NT mango recargable con cargador de mesa NT4 | - | B-011.24.420 |

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

NUEVO

Otoscopio F.O. HEINE K180 LED

Instrumento estándar para los usuarios sensibles al precio



Otoscopio con iluminación xenón halógena y tecnología de fibra óptica.
Carcasa de policarbonato ligero y resistente a los impactos.

IMAGEN CON ALTA DEFINICIÓN

- ▶ Imagen nítida y sin distorsiones gracias a la ventana de visualización de acrílico
- ▶ 3 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

ESPECIAL DURABILIDAD

- ▶ Carcasa robusta de policarbonato
- ▶ Ligero y a la vez duradero

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación gradual de la luz
- ▶ Fácil uso gracias a la ventana de visualización orientable integrada fija
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba de tímpano neumática mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
- ▶ Transformador de pared EN 200 | EN 200-1
- ▶ Pilas sustituibles

- ▶ **Un espejo para un futuro mejor.** Los espejos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)

NUEVO | **Otoscopio F.O. HEINE K180 LED**
Sets | kits de diagnóstico



Set incluye: otoscopio F.O. K180 LED,
 1 juego (4 piezas) de espéculos de uso continuo, bolsa blanda

| | 2,5V LED | 3,5V LED |
|---|---------------------|---------------------|
| BETA mango a pilas | B-181.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [01] | - | B-181.28.388 |



[01]

Kit incluye: otoscopio F.O. K180 LED con

| | 2,5V LED |
|-------------------------|---------------------|
| BETA mango a pilas [02] | B-012.10.118 |



[02]

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

Otoscopio F.O. HEINE mini 3000® LED

La calidad de HEINE en formato de bolsillo



Otoscopio compacto con una iluminación especialmente brillante y una reproducción cromática auténtica gracias al LED^{HQ} (sin necesidad de cambiar las lámparas). Diseño exclusivo. Carcasa robusta. Siempre a mano. Disponible en negro o azul. Parece imposible que quepan tantas cosas en una carcasa tan pequeña.

MANEJO INTUITIVO

- ▶ Siempre a mano gracias al práctico clip de sujeción
- ▶ Desconexión automática al engancharlo en la bata
- ▶ Fácil uso. Ventana de visualización integrada fija, orientable lateralmente
- ▶ Prueba de tímpano neumática mediante la conexión de insuflador integrada
- ▶ Robusto y antideslizante gracias a la carcasa del mango de alta calidad

IMAGEN CON ALTA DEFINICIÓN

- ▶ Imágenes extremadamente nítidas, reflejos mínimos
- ▶ 3 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}



FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador mini NT
- ▶ Pilas sustituibles
- ▶ Típ. 10 horas de funcionamiento: menos cambios de pilas, duración prolongada de las baterías recargables
- ▶ Práctico y ampliable con otros cabezales mini 3000
- ▶ **Disponible también con iluminación xenón halógena XHL.** Iluminación brillante y reproducción exacta de los colores; los demás datos técnicos son como los del otoscopio F.O. mini 3000 LED
- ▶ **Un espejo para un futuro mejor.** Los espejos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)

Otoscopio F.O. HEINE mini 3000®

Sets | kits de diagnóstico



[01]

Set|kit incluye: otoscopio F.O. mini 3000,

1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø. A elección con o sin estuche rígido

| | 2,5V XHL | 2,5V LED |
|--|--------------|--------------|
| Mango a pilas mini 3000 (con pilas), estuche rígido [01] | D-851.10.021 | D-885.20.021 |
| Mango a pilas mini 3000 (con pilas), sin estuche | D-001.70.120 | D-008.70.120 |



[02]

Kit incluye: otoscopio F.O. mini 3000,

10 AllSpec espéculos desechables de 4 mm Ø

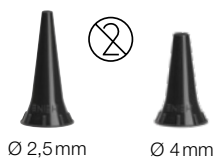
| | 2,5V XHL | 2,5V LED |
|---|--------------|--------------|
| Mango a pilas mini 3000 (con pilas) [02] | D-001.70.110 | D-008.70.110 |
| Mango recargable mini 3000 (pedir el cargador mini NT por separado) | D-001.70.301 | D-008.70.301 |



- ▶ Los instrumentos mini 3000 de estos sets se suministran en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.
- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ La información de suministro para poder convertir su instrumento con el cargador mini NT en un instrumento recargable, la encontrará en la [página 158](#).

Espéculos desechables HEINE AllSpec®

De plástico reciclado



- ▶ Ahora, la **habitual calidad HEINE** ahorra toneladas de CO₂
- ▶ **Para una colocación especialmente segura y para la mejor transmisión de la luz e higiene posibles**
- ▶ **Calidad controlada.** Sin aristas agudas
- ▶ Aquí encontrará todo lo demás que hacemos por el medio ambiente:

www.heine.com/csr



[01]



[02]



[03]



[04]

Espéculos desechables AllSpec para otoscopios F.O. BETA 400, BETA 200, K180, mini 3000 F.O. y mini 3000

| | |
|--|---------------------|
| caja con 1 000 piezas 2,5 mm Ø (niños) [01] | B-000.11.128 |
| caja con 1 000 piezas 4 mm Ø (adultos) | B-000.11.127 |
| caja con 10 cajas de 1 000 piezas, Ø 2,5 mm (niños) | B-000.11.138 |
| caja con 10 cajas de 1 000 piezas, Ø 4 mm (adultos) | B-000.11.137 |
| envase dispensador individual de 250 piezas, 2,5 mm Ø (niños) [02] | B-000.11.153 |
| envase dispensador individual de 250 piezas, 4 mm Ø (adultos) | B-000.11.152 |
| caja de 10 envase dispensador de 250 piezas, 2,5 mm Ø (niños) | B-000.11.151 |
| caja de 10 envase dispensador de 250 piezas, 4 mm Ø (adultos) | B-000.11.150 |
| Dispensador de espéculos AllSpec incl. espéculos 2,5 mm Ø y 4 mm. La medida adecuada, seguro y fácil de sacar. Para cada paciente un espéculo nuevo y limpio. | |
| dispensador de espéculos AllSpec (2 x 50 espéculos) [03] | B-000.11.149 |

Adaptador de espéculos para BETA 100* y K100*

| | |
|--|---------------------|
| sirve de adaptador entre el otoscopio de diagnóstico (BETA 100*, K100*) y los espéculos desechables AllSpec [04] | B-000.11.306 |
|--|---------------------|

*instrumento ya no se suministra

⊗: Sólo para un solo uso.

Espéculos de uso permanente para una colocación especialmente segura

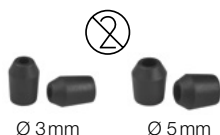
- ▶ Para una colocación especialmente segura y la mejor transmisión de luz e higiene, recomendamos utilizar **espéculos de otoscopio HEINE**
- ▶ **Espéculos de uso permanente de material plástico SANALON S muy resistente, superficies lisas, acabado externo blando.** Fácil de limpiar. Desinfección con los medios usuales y esterilización en autoclave de vapor hasta 134°C.
- ▶ **Forma anatómicamente adecuada.** Inserción atraumática y sin dolor



Espéculos de uso permanente para otoscopios F.O. BETA 400, BETA 200, K180, mini 3000 F.O. y mini 3000

| 1 juego = 4 pzs. espéculos SANALON S 2,4 3 4 5 mm Ø | B-000.11.111 | |
|---|--------------|--------------|
| | 1 pieza | 50 piezas |
| espéculo de uso permanente 2,4 mm Ø | B-000.11.107 | B-000.11.207 |
| espéculo de uso permanente 3,0 mm Ø | B-000.11.108 | B-000.11.208 |
| espéculo de uso permanente 4,0 mm Ø | B-000.11.109 | B-000.11.209 |
| espéculo de uso permanente 5,0 mm Ø | B-000.11.110 | B-000.11.210 |

Más artículos | accesorios para otoscopios con iluminación de fibra óptica (F.O.)



Espéculos suave desechables: Para la fijación en los espejos

| | |
|---|---------------------|
| espéculo suave desechable 3,0 mm Ø 40 piezas 1 caja | B-000.11.141 |
| espéculo suave desechable 5,0 mm Ø 40 piezas 1 caja | B-000.11.142 |

⊗: Sólo para un solo uso.



| Cabezal otosc. F.O. BETA 400 LED | 2,5V LED | 3,5V LED |
|--|---------------------|---------------------|
| con 4 espéculos de uso permanente, sin mango | B-001.11.401 | B-008.11.401 |
| sin mango y sin accesorios | B-001.11.400 | B-008.11.400 |



| Cabezal otosc. F.O. BETA 200 LED | 2,5V LED | 3,5V LED |
|--|---------------------|---------------------|
| con 4 espéculos de uso permanente, sin mango | B-001.11.501 | B-008.11.501 |
| sin mango y sin accesorios | B-001.11.500 | B-008.11.500 |



| Cabezal otoscopio F.O. K180 LED | 2,5V LED | 3,5V LED |
|--|---------------------|---------------------|
| con 4 espéculos de uso permanente, sin mango | B-001.11.551 | B-008.11.551 |
| sin mango y sin accesorios | B-001.11.550 | B-008.11.550 |



| Cabezal otoscopio F.O. mini 3000 | 2,5V XHL | 2,5V LED |
|---|---------------------|---------------------|
| sin mango y sin accesorios* | D-001.70.106 | D-008.70.106 |

*Se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.



| Módulo LED^{HQ} | 2,5V LED | 3,5V LED |
|--------------------------------|---------------------|---------------------|
| para BETA 400, BETA 200 y K180 | X-028.88.132 | X-008.88.133 |



| Lámpara de recambio XHL xenón halógena | 2,5V XHL | 3,5V XHL |
|---|---------------------|-----------------|
| para mini 3000 F.O. | X-001.88.105 | — |



[01]



[02]

Balón de insuflación para la prueba neumática

| | |
|--|---------------------|
| para BETA 400, BETA 200, K180, BETA 100*, K100* [01] | B-000.11.240 |
| para otoscopio mini 3000 F.O. con pieza de conexión | D-000.80.102 |
| pieza de conexión para otoscopio mini 3000 F.O. [02] | D-000.80.101 |

*Instrumento ya no se suministra

Otoscopio HEINE mini 3000®

**La calidad de HEINE en formato de bolsillo,
con iluminación directa**



Otoscopio compacto con iluminación xenón halógena XHL mejorada. Diseño exclusivo. Carcasa robusta. Siempre a mano. Disponible en negro o azul. Parece imposible que quepan tantas cosas en una carcasa tan pequeña. Salvo en el otoscopio mini 3000 LED.

MANEJO INTUITIVO

- ▶ Siempre a mano gracias al práctico clip de sujeción
- ▶ Desconexión automática al engancharlo en la bata
- ▶ Fácil uso. Ventana de visualización integrada fija, orientable lateralmente
- ▶ Robusto y antideslizante gracias a la carcasa del mango de alta calidad

IMAGEN CON ALTA DEFINICIÓN

- ▶ Elimina los reflejos gracias al revestimiento interior negro del cabezal
- ▶ Imágenes extremadamente nítidas
- ▶ 3 aumentos
- ▶ Reproducción cromática natural

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador mini NT
- ▶ Pilas sustituibles
- ▶ Práctico y ampliable con otros cabezales mini 3000
- ▶ **Un espejulo para un futuro mejor.** Los espejulos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)



Otoscopio HEINE mini 3000®

Sets | kits de diagnóstico



[01]



[02]

Set | kit incluye: otoscopio mini 3000, 1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø

| | |
|---|--------------|
| | 2,5V XHL |
| mango a pilas mini 3000 con pilas, estuche rígido [01] | D-851.20.021 |
| mango a pilas mini 3000 con pilas, sin estuche [02] | D-001.70.220 |
| mango a pilas mini 3000 con pilas, sin estuche, sin espéculos de uso continuo | D-001.70.210 |



- ▶ Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.
- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ La información de suministro para poder convertir su instrumento con el cargador mini NT en un instrumento recargable, la encontrará en la [página 158](#).

Más artículos | accesorios para otoscopios HEINE



| | |
|------------------------------------|---------------------|
| Cabezal otoscopio mini 3000 | 2,5V XHL |
| sin mango y sin accesorios* | D-001.70.206 |

*Se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.



| | |
|---|---------------------|
| Lámpara de recambio XHL xenón halógena | 2,5V XHL |
| para mini 3000 | X-001.88.110 |

Espéculos de uso permanente para BETA 100* y K100*



| | |
|---|---------------------|
| 1 juego = 5 espéculos para oído, mas 1 espéculo nasal | B-000.11.221 |
| 3 espéculos para oído Ø 3,5 4,5 5,5 mm | B-000.11.222 |
| espéculo para oído Ø 2,2mm [01] | B-000.11.215 |
| espéculo para oído Ø 2,8mm | B-000.11.216 |
| espéculo para oído Ø 3,5mm | B-000.11.217 |
| espéculo para oído Ø 4,5mm | B-000.11.218 |
| espéculo para oído Ø 5,5mm | B-000.11.219 |
| espéculo nasal Ø 10mm [02] | B-000.11.220 |



[04]

Espéculos desechables UniSpec para BETA 100* y K100*

| | |
|---|---------------------|
| Ø 2,5 mm (niños) 1 000 pcs. 1 Caja [03] | B-000.11.242 |
| Ø 4 mm (adultos), 1 000 pcs. 1 Caja | B-000.11.241 |
| distribuidor UniSpec [04] | B-000.11.146 |

*instrumento ya no se suministra

⊗: Sólo para un solo uso.

Portaespátulas para bajalenguas de madera estándar

- ▶ **XHL tecnología xenón halógena.** Iluminación óptima de la cavidad bucal y faríngea
- ▶ **Tapa de protección para lámpara.** Visibilidad libre de deslumbramiento para el explorador



| Kit incluye: portaespátulas iluminado con | 2,5V XHL | 3,5V XHL |
|--|---------------------|---------------------|
| BETA mango a pilas | B-015.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe | - | B-015.27.388 |

Portaespátulas para espátulas bucales desechables HEINE

- ▶ **XHL tecnología xenón halógena.** Iluminación óptima de la cavidad bucal y faríngea
- ▶ **Tapa de protección.** Visibilidad libre de deslumbramiento para el explorador
- ▶ **Lanzador automático dispara la espátula mediante pulsación del dedo**
Ningún contacto con la espátula después de usarla
- ▶ **Sólo para espátulas bucales de un solo uso HEINE.** Robustas e higiénicas



| Kit incluye: portaespátulas iluminado con | 2,5V XHL | 3,5V XHL |
|--|---------------------|---------------------|
| BETA mango a pilas | B-016.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe | - | B-016.27.388 |

Portaespátulas HEINE mini 3000® para espátulas bucales desechables HEINE



- ▶ **El lanzador suelta la espátula mediante una pulsación con el dedo.**
No se tiene ningún contacto con la espátula después de usarla
- ▶ **XHL tecnología xenón halógena.** Iluminación óptima de la cavidad bucal y faríngea
- ▶ **Sólo para espátulas bucales de un solo uso HEINE.** Robustas e higiénicas

| | |
|--|---------------------|
| Kit incluye: portaespátulas para | 2,5V XHL |
| mango* a pilas mini 3000 con pilas, 5 espátulas desechables | D-001.74.118 |

*Se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.

Más artículos | accesorios para portaespátulas



| | | |
|---|--------------|--------------|
| Cabezal portaespátulas para bajalenguas de madera estándar | 2,5V XHL | 3,5V XHL |
| sin mango y sin accesorios | B-001.12.302 | B-002.12.302 |



| | | |
|--|--------------|--------------|
| Cabezal portaespátulas para espátulas bucales desechables | 2,5V XHL | 3,5V XHL |
| sin mango y sin accesorios | B-001.12.305 | B-002.12.305 |



| | | |
|---|----------|--------------|
| Cabezal portaespátulas mini 3000 | 2,5V XHL | |
| sin mango y sin accesorios | | D-001.74.100 |



| | | |
|---|--------------|--------------|
| Lámpara de recambio XHL xenón halógena | 2,5V XHL | 3,5V XHL |
| para portaespátulas | X-001.88.037 | X-002.88.049 |
| para portaespátulas mini 3000 | X-001.88.037 | - |



| | | |
|---|--|--------------|
| Tapa de protección de recambio para portaespátulas | | |
| tapa de protección para lámpara | | B-000.12.308 |



| | | |
|---|--|--------------|
| Espátulas bucales de un solo uso | | |
| caja con 100 espátulas bucales de un solo uso | | B-000.12.304 |

HEINE mini-c lámpara de exploración manual | mini-e Ear Light



Lámpara de exploración robusta y duradera en formato compacto de bolsillo.
Luz brillante y concentrada: Con exclusivo LED^{HQ}.

- ▶ **Exploración segura de los ojos** gracias a la seguridad fotobiológica testada
- ▶ **Cómodo y ergonómico**
- ▶ **Colores naturales y una vida útil prácticamente infinita del LED^{HQ}**
- ▶ **Desconexión automática al fijarlo al bolsillo**
- ▶ **Garantizados 20000 ciclos interruptores**
- ▶ **Pilas recambiables** (tamaño AAA)



[01]



[02]

| mini-c mini-e kits | LED |
|--|--------------|
| mini-c lámpara de exploración manual incl. pilas [01] | D-008.73.109 |
| mini-e Ear Light incl. pilas [02] para aplicaciones otoplásticas. Mediante el conductor de luz se comprueba la adaptación anatómica óptima de los audífonos. | D-008.73.103 |

Lámpara clip HEINE mini 3000®

Lámpara de bolsillo compacta de larga duración



Robusta lámpara de bolsillo de larga duración, con un diseño compacto y moderno con cabezal cromado. Luz clara y concentrada, gracias a la lámpara única con lente XHL de xenón halógena. Combinable solamente con el sistema de mango mini 3000. El mango se suministra en color negro o azul.

- ▶ **Lámpara compacta, oval, con una forma elegante.** Se lleva en a la mano de forma ergonómica
- ▶ **Mango y cabezal en 2 piezas.** Fácil de desmontar, ampliable con otros cabezales mini 3000
- ▶ **Lámpara con lente con XHL tecnología xénon halógena mejorada con un aumento de luz del 100 % frente a lámparas convencioanles.** Luz clara concentrada
- ▶ **Carcasa del mango de alta calidad: aleación de cromo|plástico refinado.** A prueba de golpes, robusto, antideslizante
- ▶ **Clip de sujeción con interruptor de conexión y desconexión integrado.** Firme sujeción. Desconexión automática al fijarla al bolsillo. Garantizados 20000 ciclos interruptores
- ▶ **Pilas recambiables** tipo AA, o batería recargable opcional con el aparato de carga mini NT*
- ▶ **Conductor de luz para aplicaciones otoplásticas [02].** Mediante el conductor de luz se comprueba la adaptación anatómica óptima de los audífonos. Para la información de pedido, véase accesorios la [página 27](#)



[01]

[02]

| | |
|---|--------------------------|
| Lámpara clip mini 3000 con mango a pilas mini 3000 con pilas [01] | 2,5V XHL D-001.73.131 |
|---|--------------------------|

- ▶ **Rogamos indiquen los colores deseados en el pedido ya que en cascon- trario se suministrarán en color negro.**
- ▶ ***La información de suministro para poder convertir su instrumento con el cargador mini NT en un instrumento recargable, la encontrará en la [página 158](#).**

Lámpara combinada HEINE mini 3000®

Lámpara compacta de bolsillo y portaespátulas



Robusta lámpara de bolsillo de larga duración, con un diseño compacto y moderno. Luz clara y concentrada, gracias a la lámpara única con lente XHL de xenón halógena.

Combinable solamente con el sistema de mango mini 3000. El mango se suministra en color negro o azul.

- ▶ **Amplia gama de funciones.** A emplear como lámpara multiuso y como cabezal para espátulas bucales standard de madera y espátulas HEINE desechables
- ▶ **Mango y cabezal en 2 piezas.** Fácil de desmontar, ampliable con otros cabezales mini 3000
- ▶ **Lámpara con lente con XHL tecnología xenón halógena mejorada con un aumento de luz del 100 % frente a lámparas convencionales.** Luz clara concentrada
- ▶ **Carcasa del mango de alta calidad: Aleación de cromo| plástico refinado.** A prueba de golpes, robusto, antideslizante
- ▶ **Clip de sujeción con interruptor de conexión y desconexión integrado.** Firme sujeción. Desconexión automática al fijarla al bolsillo. Garantizados 20000 ciclos interruptores
- ▶ **Pilas recambiables tipo AA,** o batería recargable opcional con el aparato de carga mini NT*

| | |
|---|--------------|
| Lámpara combinada mini 3000 con | 2,5V XHL |
| mango a pilas mini 3000 con pilas, con 5 espátulas desechables | D-001.76.120 |



- ▶ **Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.**
- ▶ ***La información de suministro para poder convertir su instrumento con el cargador mini NT en un instrumento recargable, la encontrará en la [página 158](#).**

Más artículos | accesorios para Lámparas de diagnóstico de bolsillo HEINE



| | |
|--|---------------------|
| Cabezal de lámpara clip mini 3000 | 2,5V XHL |
| sin mango y sin accesorios | D-001.73.130 |



| | |
|---|---------------------|
| Cabezal de lámpara combinada mini 3000 | 2,5V XHL |
| sin mango y sin accesorios* | D-001.76.101 |

*se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.



| | |
|---|---------------------|
| Lámpara de recambio XHL xenón halógena | 2,5V XHL |
| para lámpara clip y lámpara combinada mini 3000 | X-001.88.107 |



| | |
|---|---------------------|
| Iluminador auricular para lámpara clip mini 3000 | |
| iluminador auricular, 1 juego = 6 en blister pack | D-000.73.105 |



| | |
|--|---------------------|
| Espátulas bucales de un solo uso para lámpara combinada mini 3000 | |
| caja con 100 espátulas bucales de un solo uso | B-000.12.304 |

► Información referente a mangos mini 3000 recargables y a pilas se encuentra en las [páginas 157-158](#).

ORL instrumentos de diagnóstico veterinario HEINE

Sinopsis

Naturalmente, todos nuestros instrumentos especiales para veterinaria son magníficos. No obstante, se diferencian en algún que otro detalle. Aquí le presentamos de forma resumida cuáles son esos detalles y todas sus ventajas:



| | Cabezal hendido G100 | Otoscopio F.O. BETA 200 VET |
|---|--|-------------------------------------|
| Construcción de la caja exterior | metálica | |
| Aumentos | 1,6x | 2,5x |
| Iluminación | F.O. LED ^{HQ} | |
| Tamaño del instrumento | profesional | |
| Opciones de manejo fuentes de tensión | mango a pila, mango recargable USB, mango recargable con cargador de mesa, EN 200 EN 200-1 | |
| Espéculos | espéculos metálicos largos y cerrados, espéculos hendidos de metal, espéculos cortos y cerrados, espéculos desechables UniSpec VET con adaptador | espéculos de uso continuo VET |
| Prueba neumática de la movilidad de la membrana timpánica | – | conexión para insuflador disponible |
| Página del catálogo | 29 | 31 |

Cabezal hendido HEINE G100 LED **con iluminación LED de calidad HEINE – LED^{HQ}**



Trabajo sin impedimentos durante la exploración. Combinable con diversos espejuelos como accesorios. Cabezal con sólida construcción de metal y lupa giratoria a prueba de arañazos para una vida útil extraordinariamente prolongada y un resultado de la exploración con calidad uniforme. Iluminación especialmente brillante gracias al LED^{HQ} (sin cambio de lámparas).

VISTA GENERAL MÁS RÁPIDA

- ▶ Fácil uso con aumento e iluminación gracias al cabezal hendido
- ▶ 1,6 aumentos
- ▶ Reproducción cromática natural
- ▶ Una iluminación homogénea gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Lupa giratoria a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias al LED^{HQ}
- ▶ Asiento firme de los espejuelos gracias al bloqueo doble

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Reacondicionamiento higiénico seguro

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
- ▶ La plena funcionalidad del cabezal hendido G100 LED está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1
- ▶ Práctico y ampliable con otros cabezales de HEINE

Cabezal hendido HEINE G100 LED

Sets | kits de diagnóstico

Set incluye: cabezal hendido G100 LED,

1 juego espéculos largos y cerrados (57 mm x 4 mm Ø, 65 mm x 6 mm Ø, 90 mm x 7 mm Ø), en estuche rígido.



[01]

| | 2,5V LED | 3,5V LED |
|--|--------------|--------------|
| BETA mango a pilas [01] | G-112.10.118 | - |
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe | - | G-112.28.388 |
| BETA4 NT mango recargable con cargador de mesa NT4 | - | G-112.24.420 |



[02]

| Kit incluye: cabezal hendido G100 LED con | 3,5V LED |
|---|--------------|
| BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [02] | G-010.28.388 |
| BETA4 NT mango recargable con cargador de mesa NT4 | G-010.24.420 |

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

Otoscopio F.O. HEINE BETA® 200 LED VET

Nuestro mejor otoscopio para la medicina veterinaria con LED^{HQ}



El instrumento ideal para explorar enfermedades del conducto auditivo de animales. Durabilidad excepcional combinada con un aumento óptimo. Iluminación especialmente brillante gracias al LED^{HQ}. Los otoscopios HEINE BETA VET son el resultado de una evolución y una mejora continuas hasta el más mínimo detalle y donde no dejamos nada al azar.

VISTA GENERAL MÁS RÁPIDA

- ▶ Representación espacial muy buena gracias a la lente de cristal diseñada especialmente para la medicina veterinaria
- ▶ 2,5 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Ventana de visualización de gran tamaño y a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias al LED^{HQ}

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Fácil uso gracias a la ventana de visualización orientable integrada fija
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba neumática de tímpano mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
La plena funcionalidad del BETA 200 LED VET está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1
- ▶ Práctico y ampliable con otros cabezales de HEINE

▶ [Para la información de pedido, véase la página 36.](#)

Espéculos metálicos largos y cerrados



- ▶ **Fabricación de metal cromado de alta calidad.** Limpieza fácil, aptos para cualquier forma de desinfección y esterilización
- ▶ **2 hendiduras de cierre.** Acoplamiento seguro en el cabezal

Espéculos metálicos cerrados para cabezal hendido G100 | G100 LED

| | |
|----------------------------|--------------|
| 57 mm long., Ø 4 mm [01] | G-000.21.330 |
| 65 mm long., Ø 6 mm | G-000.21.331 |
| 90 mm long., Ø 7 mm | G-000.21.332 |
| 170 mm long., Ø 10 mm [02] | G-000.21.350 |

Espéculos hendidos de metal (abierto)



- ▶ **Fabricación de metal cromado de alta calidad.** Limpieza fácil, aptos para cualquier forma de desinfección y esterilización
- ▶ **Interior mate.** Reducción de reflejos
- ▶ **Apertura de 60° con aristas bien redondeadas.** Excelentes posibilidades de instrumentación, inserción atraumática
- ▶ **2 hendiduras de cierre.** Acoplamiento seguro en el cabezal

Espéculos hendidos de metal para cabezal hendido G100 | G100 LED

| | |
|---------------------|--------------|
| 65 mm long., Ø 6 mm | G-000.21.341 |
| 90 mm long., Ø 7 mm | G-000.21.342 |

Espéculos cortos y cerrados

- ▶ **Fabricados de SANALON S, obteniendo así superficies lisas y gran densidad de material.** Evita que penetren suciedad y gérmenes, limpieza cómoda. Desinfección con los medios usuales y esterilización en autoclave de vapor hasta 134 °C
- ▶ **Forma anatómica.** Permite una inserción atraumática y libre de sensaciones desagradables
- ▶ **Interior mate.** Reducción de reflejos
- ▶ **Anillo de metal cromado inyectado con 2 hendiduras de cierre.** Garantiza una fijación segura en el cabezal

Espéculos cortos y cerrados de SANALON S para cabezal hendido G100 | G100 LED y otoscopio BETA 100 VET*



| | |
|---|--------------|
| 1 juego = 5 espéculos veterinarios de SANALON S | G-000.21.316 |
| 40 mm long., Ø 2,2 mm [01] | G-000.21.310 |
| 40 mm long., Ø 2,8 mm | G-000.21.311 |
| 40 mm long., Ø 3,5 mm | G-000.21.312 |
| 40 mm long., Ø 4,5 mm | G-000.21.313 |
| 40 mm long., Ø 5,5 mm [02] | G-000.21.314 |

*instrumento ya no se suministra

VET espéculos de uso permanente

Para utilizar con el BETA 100 VET* se necesita un adaptador VET [03].

- ▶ **Fabricados de SANALON S, obteniendo así superficies lisas con gran densidad del material.** Evita que penetren suciedad y gérmenes, limpieza cómoda. Desinfección mediante toda clase de desinfectantes corrientes. Esterilización en el autoclave de vapor hasta los 134 °C
- ▶ **Forma anatómica.** Inserción atraumática y libre de sensaciones desagradables
- ▶ **Cierre de alta funcionalidad.** Acoplamiento seguro en el otoscopio
- ▶ **2 hendiduras de cierre.** Acoplamiento seguro en el cabezal



Espéculos de uso perm. de SANALON S para BETA 200 VET | BETA 100 VET*

| | |
|--|--------------|
| 1 juego = 3 espéculos de uso permanente de SANALON S | G-000.21.213 |
| 61 mm long., Ø 4 mm [01] | G-000.21.210 |
| 61 mm long., Ø 6 mm | G-000.21.211 |
| 61 mm long., Ø 9 mm [02] | G-000.21.212 |
| adaptador para espéculos VET [03] | G-000.21.214 |

Espéculos desechables HEINE UniSpec®



Ø 2,5mm



[04]



[05]

Para ajustarlos en el cabezal hendido G100|G100 LED se precisa el adaptador intermedio [04].

- ▶ **No precisan limpieza.** Ahorran tiempo
- ▶ **Higiene total.** Garantiza esterilidad
- ▶ **Cajas prácticos de 1000 espéculos desechables.** De precio económico
- ▶ **Modelo original HEINE.** Se acopla de forma completamente segura en el cabezal

Espéculos desechables UniSpec para BETA 100 VET*, otoscopio operatorio* y cabezal hendido G100|G100 LED

| | |
|--|--------------|
| caja con 1 000 espéculos UniSpec 2,5 mm Ø | B-000.11.242 |
| caja con 1 000 espéculos UniSpec 4 mm Ø | B-000.11.241 |
| adaptador para ajustarlos en el cabezal hendido [04] | G-000.21.302 |
| distribuidor UniSpec [05] | B-000.11.146 |

*instrumento ya no se suministra

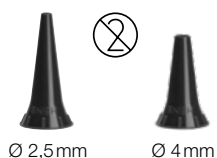
⊗: Sólo para un solo uso.

Más artículos | accesorios para ORL instrumentos de diagnóstico veterinario

Espéculos de uso permanente para otoscopio operatorio*



| | |
|---|---------------------|
| 1 juego = 5 espéculos para oído, mas 1 espéculo nasal | B-000.11.221 |
| 3 espéculos para oído Ø 3,5 4,5 5,5mm | B-000.11.222 |
| espéculo para oído Ø 2,2mm [01] | B-000.11.215 |
| espéculo para oído Ø 2,8mm | B-000.11.216 |
| espéculo para oído Ø 3,5mm | B-000.11.217 |
| espéculo para oído Ø 4,5mm | B-000.11.218 |
| espéculo para oído Ø 5,5mm | B-000.11.219 |
| espéculo nasal Ø 10mm [02] | B-000.11.220 |



Espéculos desechables AllSpec para BETA 100 VET* y otoscopio operatorio*



| | |
|---|---------------------|
| caja con 1 000 piezas, Ø 2,5mm [03] | B-000.11.128 |
| caja con 1 000 piezas, Ø 4mm | B-000.11.127 |
| caja con 10 cajas de 1 000 piezas, Ø 2,5mm (niños) | B-000.11.138 |
| caja con 10 cajas de 1 000 piezas, Ø 4mm (adultos) | B-000.11.137 |
| envase dispensador individual de 250 piezas, Ø 2,5mm [04] | B-000.11.153 |
| envase dispensador individual de 250 piezas, Ø 4mm | B-000.11.152 |
| caja de 10 envase dispensador de 250 piezas, Ø 2,5mm | B-000.11.151 |
| caja de 10 envase dispensador de 250 piezas, Ø 4mm | B-000.11.150 |
| adaptador para espéculos AllSpec [05] | B-000.11.306 |
| dispensador de espéculos AllSpec (2 x 50 espéculos) [06] | B-000.11.149 |

*instrumento ya no se suministra

⊗: Sólo para un solo uso.

**Más artículos | accesorios para
ORL instrumentos de diagnostico veterinario**



| Cabezal hendido G100 LED | 2,5V LED | 3,5V LED |
|---------------------------------|--------------|--------------|
| con lupa abatible, sin mango | G-001.21.301 | G-008.21.301 |



| Cabezal otoscopio F.O. BETA 200 VET LED | 2,5V LED | 3,5V LED |
|--|--------------|--------------|
| sin mango y sin accesorios | G-001.21.250 | G-008.21.250 |



| Módulo LED ^{HQ} | 2,5V LED | 3,5V LED |
|--------------------------|--------------|--------------|
| para G100 y BETA 200 VET | X-028.88.132 | X-008.88.133 |



| Lupa abatible para cabezal hendido G100 LED | |
|---|--------------|
| lupa abatible, suelta | G-000.21.209 |



| Balón de insuflación para la prueba neumática | |
|---|--------------|
| balón de insuflación para otosc. BETA 200 VET | B-000.11.240 |

► Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).



**ENDOSCOPES AND
INSTRUMENTS FOR ENT
ESOPHAGOSCOPY -
BRONCHOSCOPY**

9th EDITION 2/2013

| Chapter | | | Pages |
|-----------|---|--|---------|
| 1 | HEADMIRRORS – HEADLIGHTS | HNO-J | 1-12 |
| 2 | OTOLOGY | E-TEL, E | 13-102 |
| 3 | INSTRUMENTS FOR RHINOLOGY AND RHINOPLASTY | N | 103-160 |
| 4 | SINOSCOPY, RHINOSCOPY POSTRHINOSCOPY FESS, NASAL SINUSES, SKULL BASE | SI | 161-318 |
| 5 | TELESCOPES AND INSTRUMENTS FOR SIALENDOSCOPY | SIAL | 319-332 |
| 6 | ADENOIDECTOMY – NASOPHARYNX TONSILLECTOMY – MOUTH TRACHEOSTOMY – LARYNX | ATT | 333-366 |
| 7 | HOSPITAL SUPPLIES, SCALPELS, SCISSORS, FORCEPS NEEDLE HOLDERS, RETRACTORS, MISCELLANEOUS | HS | 367-400 |
| 8 | BIPOLAR AND UNIPOLAR COAGULATION | COA | 401-428 |
| 9 | RECOMMENDED SETS FOR ENT | SET | 429-502 |
| 10 | LARYNGOSCOPY TRACHEOSCOPY | LA-FIB, LA-FIB-ACC, LA-TEL, LA | 503-592 |
| 11 | ESOPHAGOSCOPY DIVERTICULOSCOPY | ESO, ESO-DIM, DIV | 593-618 |
| 12 | BRONCHOSCOPY TRACHEOSCOPY | BRO-INTRO, BRO-VIDEO, BRO-FIB, BRO-FIB-ACC, BRO, BRO-TEL, BRO-ST- INTRO, PED-BRO, BRO-ACC, BRO-DIM | 619-670 |
| 13 | FLUORESCENCE | HNO-ICG, HNO-AF, BRO-AF-INTRO, BRO-AF | 671-710 |
| 14 | NAVIGATION | NAV | 711-722 |
| 15 | MICROSCOPY | ENT-MICRO | 723-752 |
| 16 | COMPONENTS SPARE PARTS | ENT-SP | SP 1-98 |
| 17 | KARL STORZ OR1 NEO®, TELEPRESENCE HYGIENE, ENDOPROTECT1 | | |



HEADMIRRORS - HEADLIGHTS

Headmirrors



074090

074090 **Headmirror Standard**, with ball joint, replaceable mirror, diameter 90 mm, including:
Headband, narrow

075090 **Headmirror Standard**, with ball joint, replaceable mirror, diameter 90 mm, including:
Headband, wide



076090

076090 **ZIEGLER Headmirror**, replaceable mirror, diameter 90 mm, including:
Headband, narrow

077090 **ZIEGLER Headmirror**, replaceable mirror, diameter 90 mm, including:
Headband, wide

Components/Spare Parts see chapter 16

LED Headlight POWER OF LIGHT

Special Features:

- Integrated battery/battery light source allows more freedom of movement
- No separate light source required
- No separate light cable required
- No mains supply required
- Low energy consumption
- No need to change lamp (50,000 hours service life)
- Available as rechargeable and battery versions
- More brightness and luminosity compared to warm light headlights
- Versions with white or yellow light available; both ensure that tissue structure can be recognized in their true colors
- Minimal heat generation
- Luminous field can be focused – adjustable from 10 to 100 mm at a working distance of 40 cm
- Soft, flexible headband ensures optimal fitting
- Ergonomic fit
- Easy vertical and horizontal adjustment to the shape of the head
- Individual adjustment possible during wear
- Optional: Extension Cable 094105 for attaching the battery and/or rechargeable battery box to OR clothing



094100 – 094130

Battery Versions

094100 **LED Headlight**, light model, **with white light**, battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance
including:
Headband
Battery Box
2x **Photo Batteries**, lithium, 3 V, CR 123 A

094110 **Same,**
with yellowish light

Rechargeable Battery Versions

094120 **LED Headlight**, light model, **with white light**, rechargeable battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance
including:
Headband
Rechargeable Battery Box, with 1 Li-Ion rechargeable battery
Battery Charger Li-Ion
Mains Cord

094130 **Same,**
with yellowish light

Components/Spare Parts see chapter 16

Headlight KS60

with Cold Light Illumination

Special Features:

- Luminous field can be focused – adjustable from 20 to 80 mm at a working distance of 40 cm – resulting in brightness of over 175,000 lux
- Double lens system for illumination in the depths of the operating field
- Lightweight headband also suitable for a small head size, can be adjusted both horizontally and vertically
- Sterilizable handle allows adjustment under sterile conditions, movable and height adjustable
- Light cable is divided in the head area for even distribution of weight
- Convenient light cable length of 290 cm provides greater freedom of movement



310060/310061

310060

Headlight KS60, with double lens system and Y-fiber optic light cable, >175,000 lux, illuminated area adjustable from 20 – 80 mm in diameter with 40 cm working distance, with removable and sterilizable focus handle

including:

Headband

Y-Fiber Optic Light Cable

Clip with Band



310061

Same,

including:

Y-Fiber Optic Light Cable, with 90° deflection to the cold light source



Components/Spare Parts see chapter 16

Headlights

with Cold Light Illumination

Special Features:

- Good illumination in the depth of the operating field
- Diameter of light field can be adjusted from 10 to 60 mm
- Sterilizable handle, removable
- Comfortable, adjustable headband, including forehead cushion with push-button lock
- Clip for attaching the fiber optic light cable to OR clothing



094051/094055

094051

Headlight, with ball joint and vertical height adjustment, front section movable in all directions, with removable and sterilizable focus handle

including:

Headband

Fiber Optic Light Cable

Clip with Band



094055

Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source



Components/Spare Parts see chapter 16

Headlights

with Cold Light Illumination

Special Features:

- Good wearing comfort
- Ergonomic design
- Diameter of light field (20 – 80 mm) can be adjusted via the aperture



310010/310015



310020/310025



310010

Headlight, light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source including:

Headband
Clip with Band

310020

Same, including:
Headband, with cross band



310015

Headlight, light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the cold light source including:

Headband
Clip with Band

310025

Same, including:
Headband, with cross band

Components/Spare Parts see chapter 16

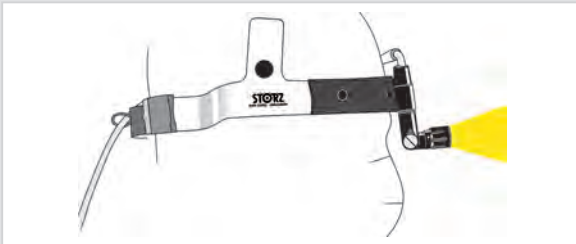
Headlights

with Cold Light Illumination

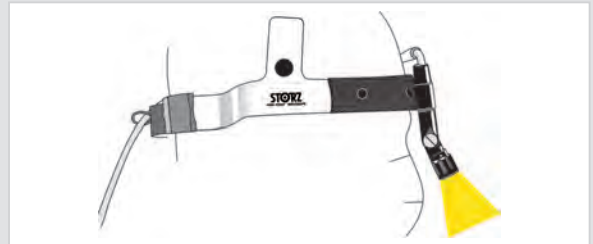
Special Features:

- Headlight can be adjusted in 3 dimensions: height adjustment on the headband, front can be turned 45° to the right or left and also tilted horizontally downwards to a max. of 165°
- Headlight is self-retaining in all positions
- Protective ring for the front lens reduces damage
- Small, lightweight model with thin fiber optic light cable, total weight of only 300 g
- Fiber optic light cable can be connected to either the left or the right of the headband
- Wide headband with bridges on either side to prevent slippage
- Replaceable forehead cushion

90° position



165° position



094301/094305



094301

Headlight, lightweight model, illuminated area 65 mm in diameter with 40 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source

including:

Headband

Clip with Band



094305

Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source

Components/Spare Parts see chapter 16

Headlights

with Cold Light Illumination

Special Features:

- Advanced model of 094301 headlight
- Diameter of light field can be adjusted from 30 to 230 mm

Available in 2 models:

- With integral fiber optic light cable or suitable for attachable fiber optic light cable



Headlight, light model, illuminated area adjustable from 30 – 230 mm in diameter with 40 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source

including:
Headband
Clip with Band



Same, including:
Fiber Optic Light Cable, with 90° deflection to the cold light source



094330

Headlight, light model, illuminated area adjustable from 30 – 230 mm with 40 cm working distance, with connection for use with thin, 230 cm long Fiber Optic Light Cable 495 NTAS with straight plug or 495 NTXS with 90° deflection to the cold light source

including:
Headband
Clip with Band



For use with Headlight 094330:

495 NTAS **Fiber Optic Light Cable**, diameter 2.5 mm, length 230 cm
or

495 NTXS **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain, diameter 2.5 mm, length 230 cm

Components/Spare Parts see chapter 16

Headlight "CLAR 73"

with Cold Light Illumination

Special Features:

- Mirror with slit for monocular viewing
- Concave mirror set in solid, protective mounting

Special Features:

- Diameter of the light field can be changed by means of the aperture setting
- Weight: 400 g
- With Headband 078730, vertical cable guide, for fiber optic light cable diameter 3.5 mm



095501/095505



095501

Headlight "CLAR 73", with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the cold light source

including:

Headband

Clip with Band



095505

Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source

Components/Spare Parts see chapter 16

Headbands

for Cold Light Illumination



310070

310070

Headband, fully adjustable, with Forehead Cushion 078511, with cross band, including holder, for Headlight 310060/310061



310075

310075

Headband, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting, for Headlight 310010/310015



310076

310076

Headband, fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting, for Headlight 310020/310025



078730

078730

Headband, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505



078740

078740

Headband, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094305, 094320, 094325 and 094330



078760

078760

Headband, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder, for Headlights 094100, 094110, 094120 and 094130, including Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124



078681

078681

Clip with Band, for attaching fiber optic light cable to OR clothing



094105

094105

Extension Cable, for LED Headlights 094100 – 094130, for carrying the battery box or rechargeable battery box in OR clothing

Components/Spare Parts see chapter 16



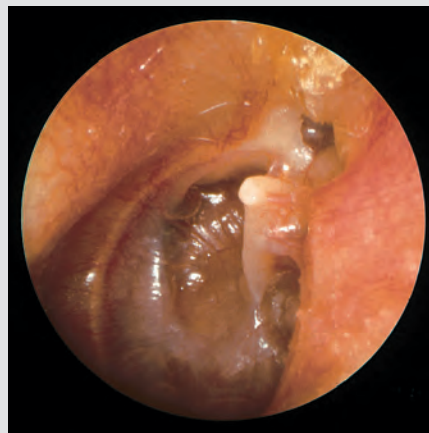
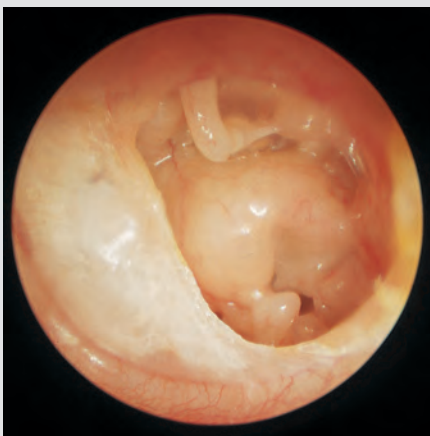
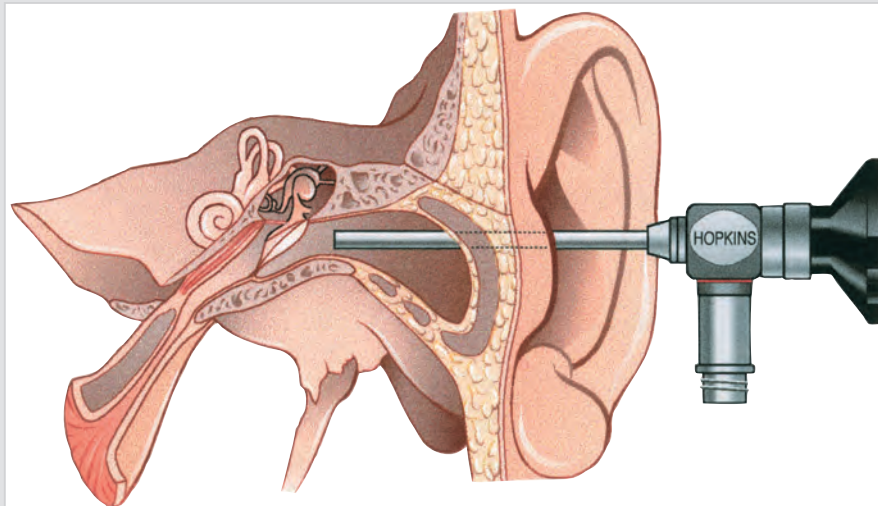
OTOLOGY

Otoscopy

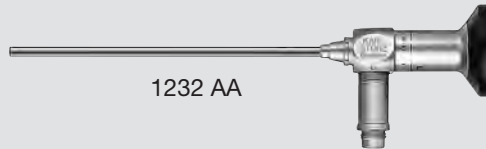
with HOPKINS® Telescopes

Special Features:

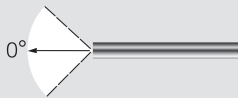
- For overview of the eardrum
- With wide angle lens
- HOPKINS® telescopes in diameters 1.9 mm, 2.7 mm, 3 mm and 4 mm for diagnosis and surgery of the ear



Diameter 1.9 mm, length 10 cm



1232 AA

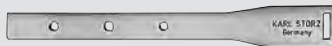


1232 AA

HOPKINS® Straight Forward Telescope 0°, diameter 1.9 mm, length 10 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

1232 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 1.9 mm, length 10 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



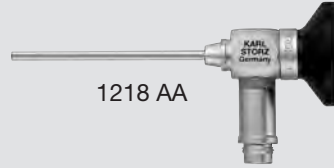
723750 A

Protection Tube, for HOPKINS® telescopes with length of 6 – 11 cm

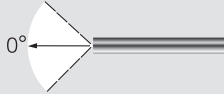
HOPKINS® Telescopes

Tympanoscopy in Practice

Diameter 3 mm, length 6 cm



1218 AA



1218 AA

Tele-Otoscope with HOPKINS® Straight Forward Telescope 0°, diameter 3 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



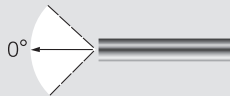
1218 BA

Tele-Otoscope with HOPKINS® Forward-Oblique Telescope 30°, diameter 3 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Diameter 4 mm, length 6 cm

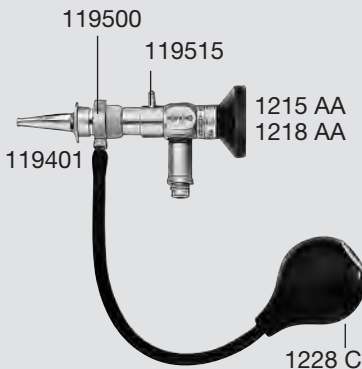


1215 AA



1215 AA

Tele-Otoscope with HOPKINS® Straight Forward Telescope 0°, diameter 4 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



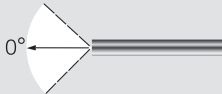
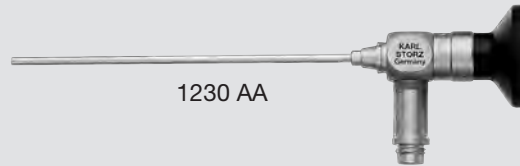
119500

HAWKE Pneumatic Adaptor, for Ear Specula 119401 – 119410, including rubber bulb with tube and screw-on cone, for use with Tele-Otoscope 1218 AA

119515

Bridge, for Pneumatic Adaptor 119500, for use with Tele-Otoscope 1215 AA with Ear Specula 119401 – 119404 and Tele-Otoscope 1218 AA with Ear Specula 119401 – 119410

Diameter 2.7 mm, length 11 cm



1230 AA

HOPKINS® Straight Forward Telescope 0°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



1230 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Battery Light Source LED for Endoscopes



11301 D4



11301 DG

- 11301 D4 **Battery Light Source LED for Endoscopes**, with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**, with 2 Photo Batteries 121306 P
- 11301 DE **Battery Light Source LED for Endoscopes**, rechargeable, with click connection, brightness > 110 lm / > 150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
- 11301 DF **Same**, with fast screw thread
- 11301 DG **Charging Unit**, for 11301 DE/11301 DF, for two LED battery light sources, with fixed integrated power supply and adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, **suitable for wipe disinfection**
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm

Components/Spare Parts see chapter 16

CMOS Video Otoscope

Special Features:

- For imaging and documentation of the auditory canal and eardrum
- CMOS sensor
- Integrated LED illumination
- Exchangeable ear specula
- Manual focus ring
- Compatible with KARL STORZ C-MAC® monitor system and C-HUB® camera control unit



121200 K

121200 K **CMOS Video Otoscope KIT**, with integrated LED illumination, for use with C-HUB® 20 2901 01 and Monitor 8402 ZX including:
Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100



20 2901 01



8402 ZX

121200 C **CMOS Video Otoscope with C-HUB®**, with integrated LED illumination including:
Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100
C-HUB® CMOS Camera Control Unit, Interfaces: USB 2.0, S-Video output (NTSC), power socket
Power Supply
S-Video (Y/C) Connecting Cable
USB Connecting Cable

121200 M **CMOS Video Otoscope with Monitor**, with integrated LED illumination including:
Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100
Monitor, screen size 7", memory option with SD card, rechargeable battery, power adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, suitable for wipe disinfection

Accessory:

121204 **Ear Speculum**, for CMOS video otoscope, outer diameter 4 mm, black, for single use, unsterile, package of 1000

Components/Spare Part see catalog TELEPRESENCE

Ear



121300



121302 –
121305

121302

121303

121304

121305

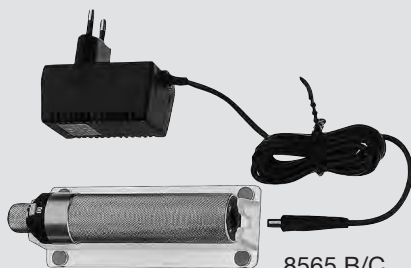
121320



121332
121334

121332

121334



8565 B/C

8565 B

8565 C

HEINE **Otoscope**, otoscope head with fiber optic light transmission incorporated including:

Ear Specula, outer diameter 2.5 – 5 mm

Battery Handle

2x 1.5 Volt Battery

Spare Lamp

Ear Speculum, reusable, black, outer diameter 2.5 mm

Same, outer diameter 3 mm

Same, outer diameter 4 mm

Same, outer diameter 5 mm

HEINE **Otoscope Head**, fiber optic light transmission incorporated, for use with Battery Handles 8565 B/BC/C including:

Ear Specula, outer diameter 2.5 – 5 mm

Spare Lamp

Ear Specula for single use, gray, outer diameter 2.5 mm, for children, package of 1000

Same, outer diameter 4 mm, for adults

Battery Handle, 3.5 Volt

including:

Rack

Charger, power supply 220 – 240 VAC

Battery Handle, 3.5 Volt

including:

Rack

Charger, power supply 115 VAC

Components/Spare Parts see chapter 16



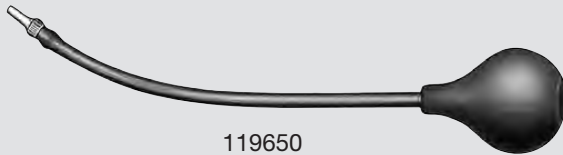
119420 –
119404



Size 00
Size 0
Size 1
Size 2
Size 3
Size 4

119420
119410
119401
119402
119403
119404

BRÜNINGS Ear Speculum, size 00, outer diameter 4 mm
Same, size 0, outer diameter 4.5 mm
Same, size 1, outer diameter 6 mm
Same, size 2, outer diameter 7.5 mm
Same, size 3, outer diameter 9.5 mm
Same, size 4, outer diameter 11 mm



119650

119650

Rubber Bulb, for pneumatic testing, with record cone, for Diagnostic Heads 119700 – 120600



119700

119700

SIEGLE Diagnostic Head, without magnification



119800

119800

BRÜNINGS Diagnostic Head, with magnification, anastigmatic



119900

119900

FRENZEL Operating Head, with wall detail, with magnification, anastigmatic

Components/Spare Parts see chapter 16

Ear



122003 –
122007

-  3 mm 122003
-  4 mm 122004
-  5 mm 122005
-  6 mm 122006
-  7.5 mm 122007

HARTMANN **Ear Speculum**, standard model, outer diameter 3 mm, length 3.6 cm

Same, outer diameter 4 mm




Same, outer diameter 5 mm

Same, outer diameter 6 mm

Same, outer diameter 7.5 mm



122503 –
122505

-  3 mm 122503
-  4 mm 122504
-  5 mm 122505

HARTMANN **Ear Speculum**, short, for children, outer diameter 3 mm, length 2.7 cm

Same, outer diameter 4 mm

Same, outer diameter 5 mm



123008
123009

-  8.5 mm 123008
-  10 mm 123009

BOUCHERON **Ear Speculum**, outer diameter 8.5 mm, length 3.6 cm

Same, outer diameter 10 mm



123031 –
123037

-  4 mm
-  5 mm
-  6 mm
-  7 mm
-  8 mm
-  9 mm
-  10 mm

| | |
|--------|---|
| 123031 | FARRIOR Ear Speculum, round, size 1, outer diameter 4 mm, length 4.5 cm |
| 123032 | Same , size 2, outer diameter 5 mm |
| 123033 | Same , size 3, outer diameter 6 mm |
| 123034 | Same , size 4, outer diameter 7 mm |
| 123035 | Same , size 5, outer diameter 8 mm |
| 123036 | Same , size 6, outer diameter 9 mm |
| 123037 | Same , size 7, outer diameter 10 mm |



123041 –
123049

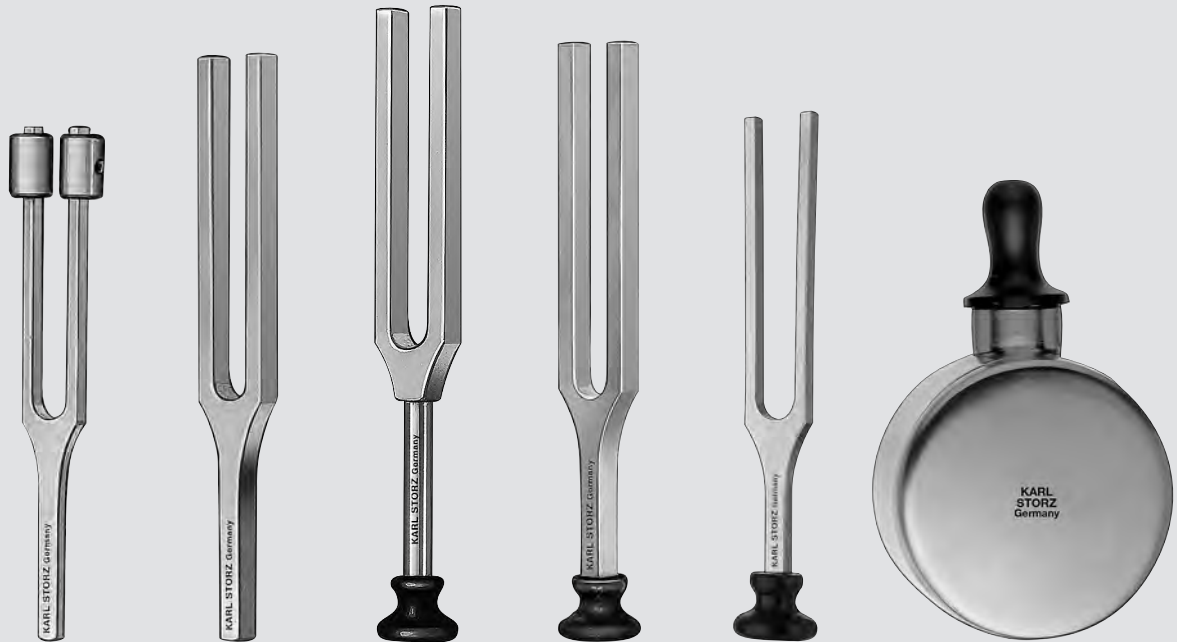
-  4.0 x 4.8 mm
-  5.0 x 5.8 mm
-  5.5 x 6.3 mm
-  6.0 x 6.8 mm
-  6.5 x 7.3 mm
-  7.0 x 7.8 mm
-  7.5 x 8.3 mm
-  8.0 x 8.8 mm
-  8.5 x 9.3 mm

| | |
|--------|---|
| 123041 | FARRIOR Ear Speculum, oval, size 1, 4.0 x 4.8 mm, length 4.3 cm |
| 123042 | Same , size 2, 5.0 x 5.8 mm |
| 123043 | Same , size 3, 5.5 x 6.3 mm |
| 123044 | Same , size 4, 6.0 x 6.8 mm |
| 123045 | Same , size 5, 6.5 x 7.3 mm |
| 123046 | Same , size 6, 7.0 x 7.8 mm |
| 123047 | Same , size 7, 7.5 x 8.3 mm |
| 123048 | Same , size 8, 8.0 x 8.8 mm |
| 123049 | Same , size 9, 8.5 x 9.3 mm |



123205 –
123207

| | |
|--------|--|
| 123205 | HOLMGREEN Endaural Ear Speculum, self-retaining, outer diameter 5 mm |
| 123206 | Same , outer diameter 6 mm |
| 123207 | Same , outer diameter 7 mm |



125300
125400

125500
125600
125700
125800

125501
125601

126000

126100

130000

- 125300 **Tuning Fork, C-128, with weights**
- 125400 **Same, C¹-256, with weights**
- 125500 **Same, C²-512, without weights**
- 125600 **Same, C³-1024, without weights**
- 125700 **Same, C⁴-2048, without weights**
- 125800 **Same, C⁵-4096, without weights**
- 125501 **Tuning Fork, C²-512, without weights, with stand**
- 125601 **Tuning Fork, C³-1024, without weights, with stand**
- 126000 **Tuning Fork, A¹-440, with stand**
- 126100 **Same, small model**
- 130000 **BARANY Noise Apparatus, with ear olive**

Components/Spare Parts see chapter 16



138805



138905

- 138805 **FRENZEL Nystagmus Spectacles**, black frame, with ventilation slot, rubber band and cable with 25 mm flat-cable plug, including 2 Lamps 138964, 4 V

- 138905 **FRENZEL Nystagmus Spectacles**, black frame, with attached, adjustable battery handle and ventilation slots, including 2 Lamps 138964, 4 V, for use with 3 Batteries 121306 (not included in delivery)

Components/Spare Parts see chapter 16

Ear

○ 146001
○ 146002

142418 –
142422

142000 142700 143800 146001
146002

148500

149325

149326

149320

142000 **POLITZER Air Bag**, with metal cone, 8 oz.

142418 **Nasal Olive**, metal, size 18 mm

142420 **Same**, size 20 mm

142422 **Same**, size 22 mm

142700 **Metal Connector**, for 142000, 146001 and 146002

143800 **Rubber Balloon**, for eustachian catheter, 2 ½ oz.

146001 **HARTMANN Eustachian Catheter**, size 1,
length 13.5 cm, olive diameter 2.8 mm

146002 **Same**, size 2, olive diameter 3.2 mm

148500 **JANSEN Diagnostic Tube**, extra light, with 1 black tip
for doctor and 6 patient tips, in 3 sizes, with stand

148501 **Same**, with 1 black tip for doctor and 1 tip for patient

148608 **Ear Tip**, only, diameter 8 mm

148609 **Same**, diameter 9 mm

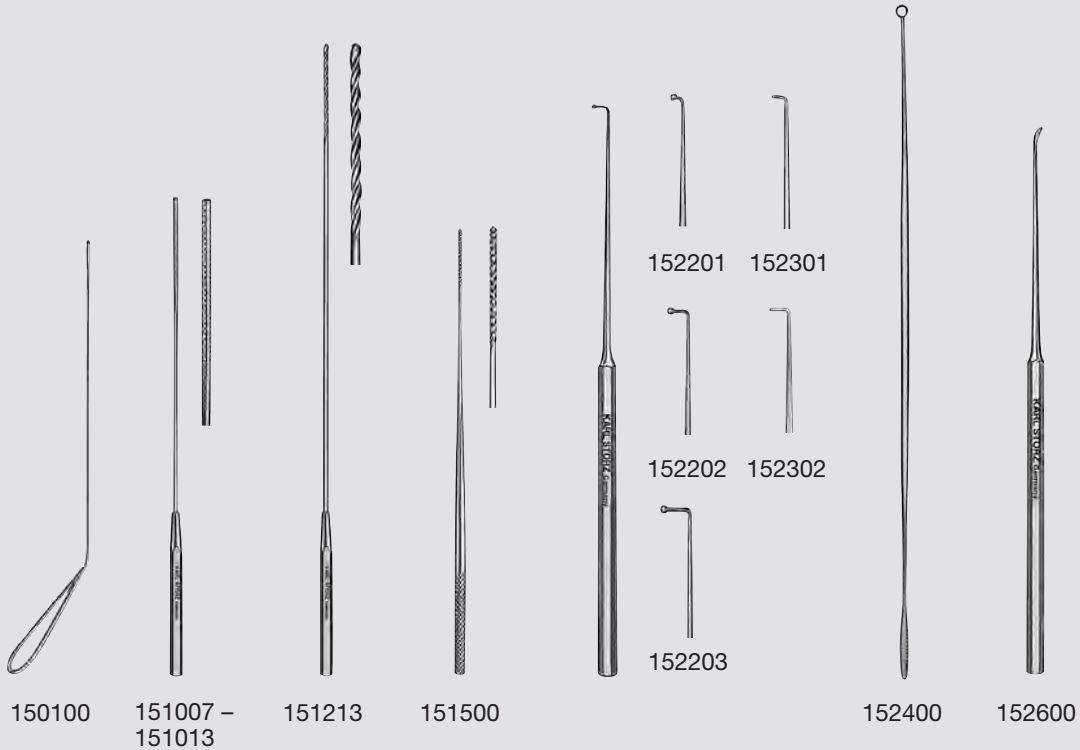
148610 **Same**, diameter 10 mm

148710 **Ear Tip**, black, diameter 10 mm

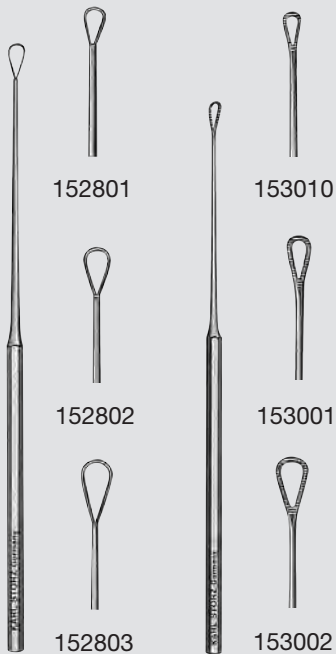
149320 **KABIERSKE Powder Blower**, with large bottle, with
1 straight Cannula 149325 and 1 curved Cannula 149326

Components/Spare Parts see chapter 16

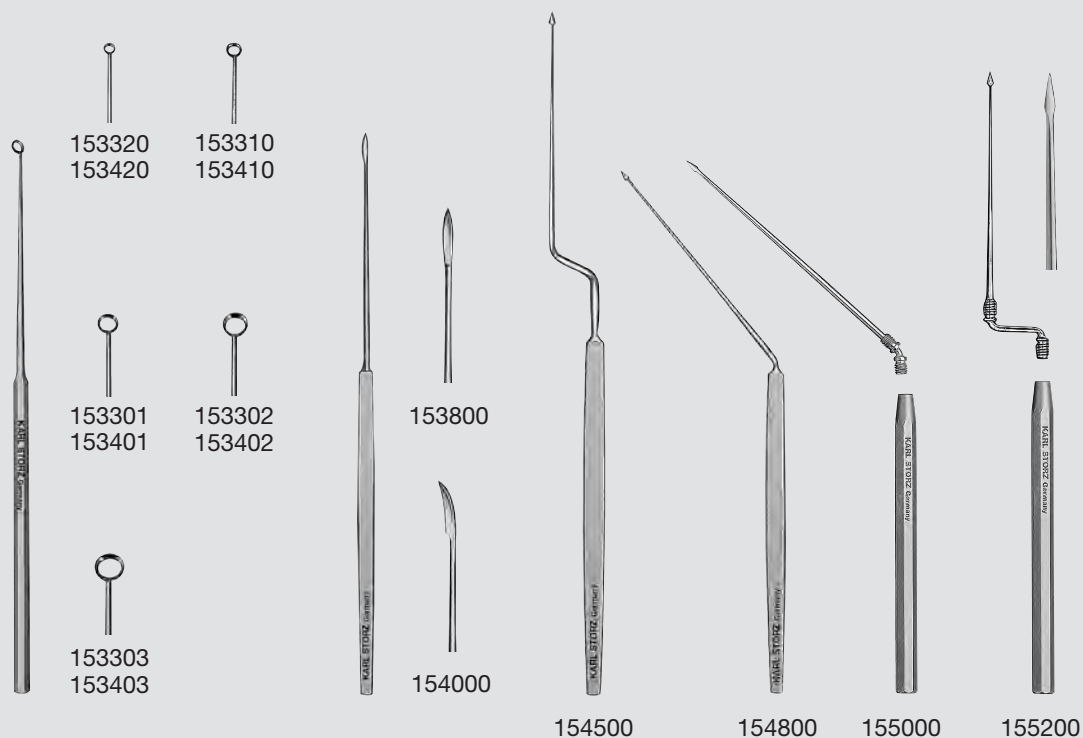
3-991



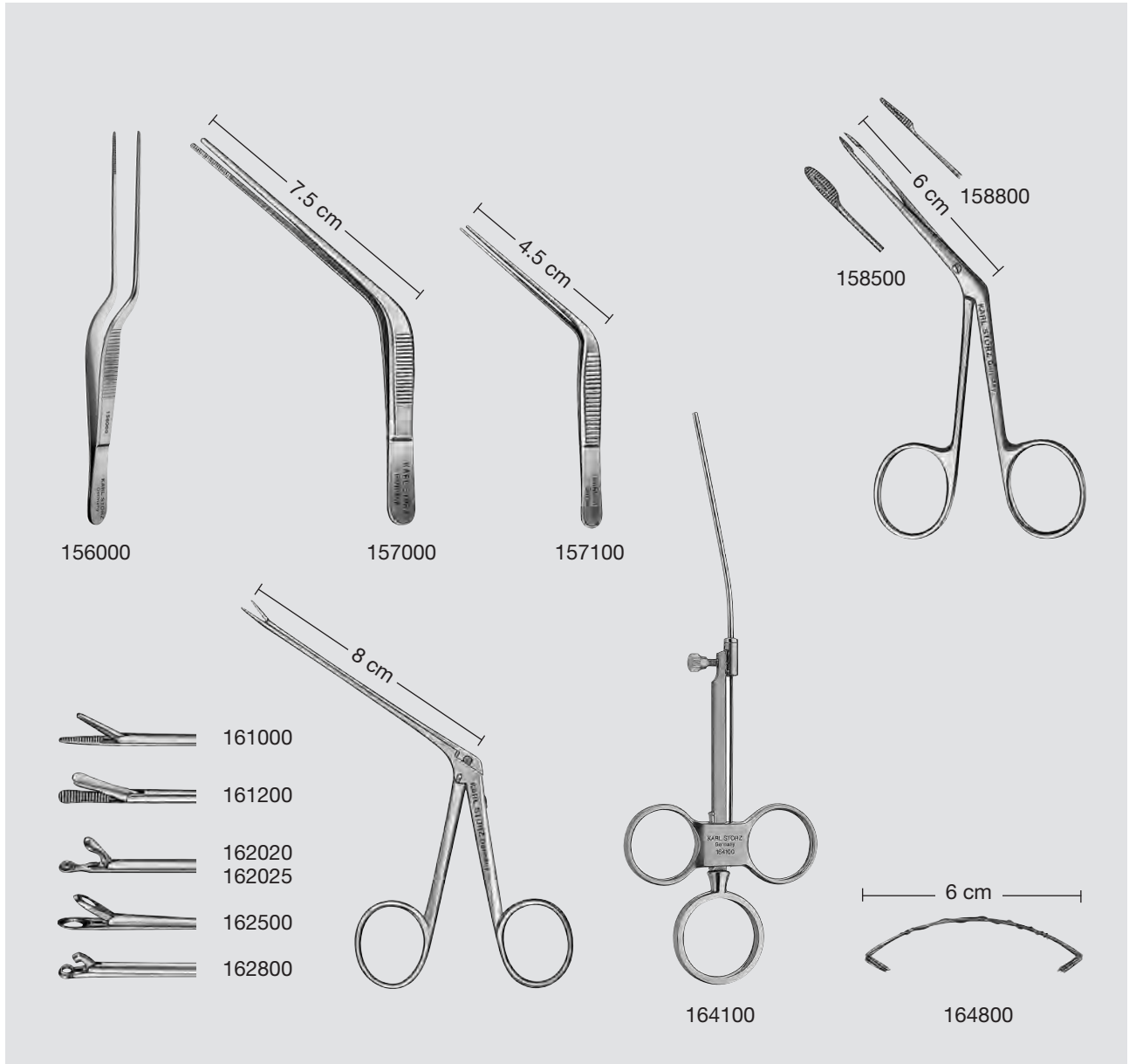
- 150100 **STACKE Ear Probe**, silver, length 10.5 cm
- 151007 **Cotton Applicator**, standard model, triangular serrated, diameter 0.7 mm, working length 13 cm
- 151009 **Same**, diameter 0.9 mm
- 151011 **Same**, diameter 1.1 mm
- 151013 **Same**, diameter 1.3 mm
- 151213 **Cotton Applicator**, with thread, diameter 1.3 mm, working length 17.5 cm
- 151500 **FROHN Cotton Applicator**, with thread, working length 12.5 cm
- 152201 **WAGENER Ear Hook**, with ball end, size 1, length 15.5 cm
- 152202 **Same**, size 2
- 152203 **Same**, size 3
- 152301 **Ear Hook**, without ball end, size 1, length 15.5 cm
- 152302 **Same**, size 2
- 152400 **JOBSON-HORNE Probe**, working length 18 cm
- 152600 **ZAUFAL Ear Spatula**, length 14.5 cm
- 152801 **BILLEAU Ear Loop**, size 1, length 16 cm
- 152802 **Same**, size 2
- 152803 **Same**, size 3
- 153010 **WEBER-LOCH Ear Loop**, size 0, length 14.5 cm
- 153001 **Same**, size 1
- 153002 **Same**, size 2



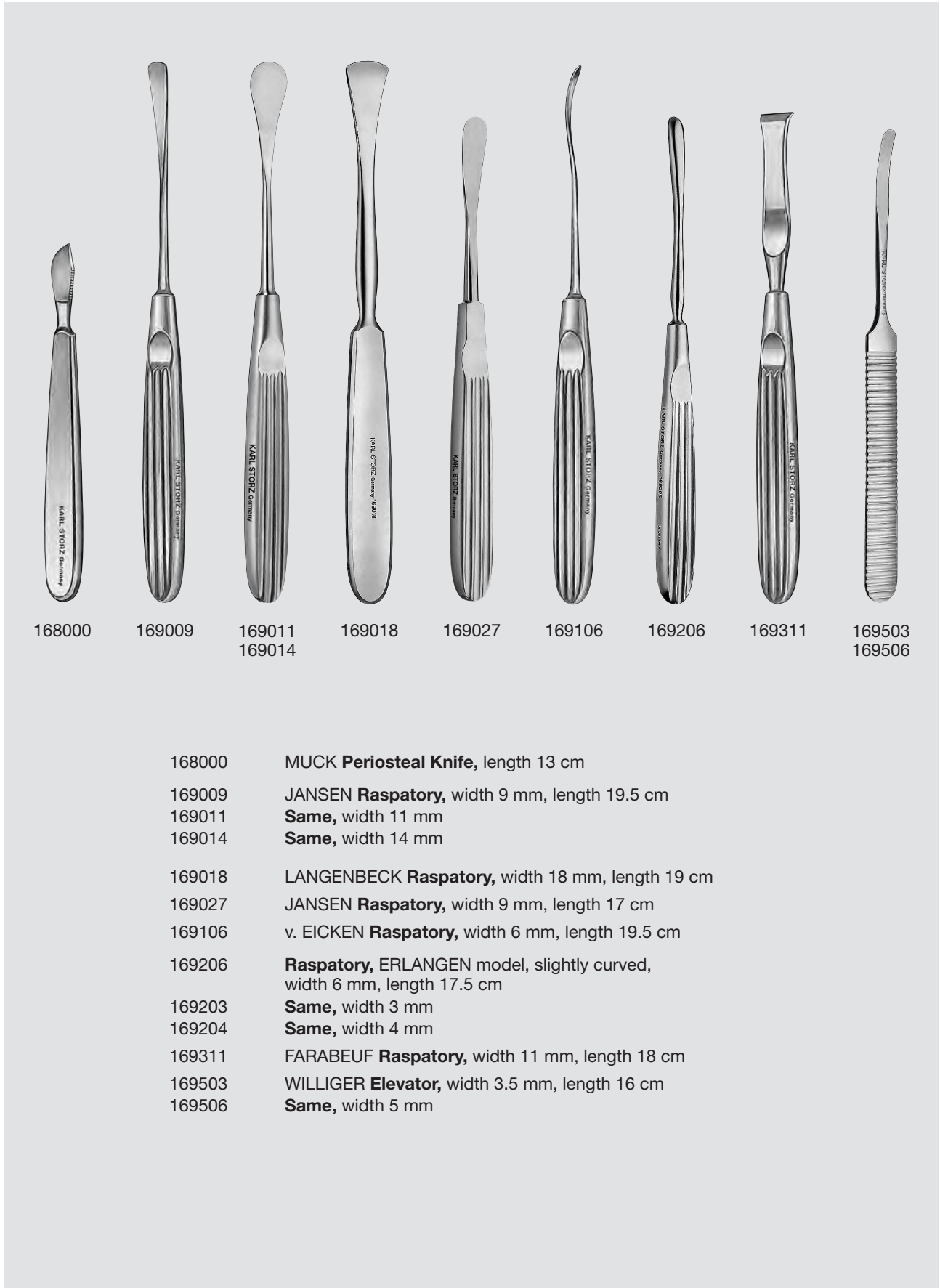
Ear



- 153320 **BUCK Ear Curette**, blunt, size 00, length 14.5 cm
- 153310 **Same**, size 0
- 153301 **Same**, size 1
- 153302 **Same**, size 2
- 153303 **Same**, size 3
- 153420 **BUCK Ear Curette**, sharp, size 00, length 14.5 cm
- 153410 **Same**, size 0
- 153401 **Same**, size 1
- 153402 **Same**, size 2
- 153403 **Same**, size 3
- 153800 **POLITZER Ear Knife**, straight, working length 6.5 cm
- 154000 **Same**, curved
- 154500 **TRAUTMANN Ear Knife**, delicate, bayonet-shaped, working length 7.5 cm
- 154800 **POLITZER Ear Knife**, delicate, angular, working length 7.5 cm
- 155000 **Ear Knife**, screw handle, angular, working length 8 cm
- 155200 **Same**, bayonet-shaped

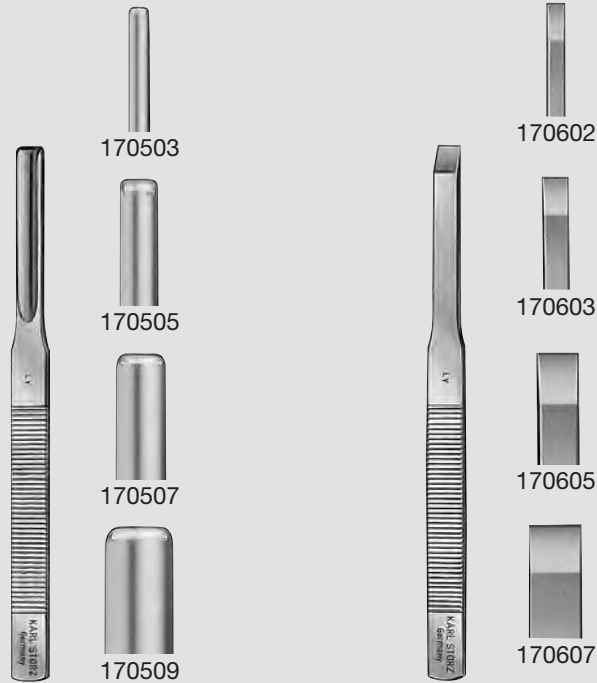


- | | | | |
|--------|--|--------|---|
| 156000 | LUCAE Ear Forceps , bayonet-shaped, length 14.5 cm | 162020 | HARTMANN Ear Forceps , round cupped jaws, diameter 2 mm, working length 8 cm |
| 157000 | TRÖLTSCH Ear Dressing Forceps , serrated, standard model, working length 7.5 cm | 162025 | Same , diameter 2.5 mm |
| 157100 | TRÖLTSCH Ear Dressing Forceps , serrated, small and delicate, working length 4.5 cm | 162500 | STRÜMPEL Ear Forceps , working length 8 cm |
| 158500 | HARTMANN Ear Dressing Forceps , slender, working length 6 cm | 162800 | HARTMANN Ear Forceps , through-cutting, straight, working length 8 cm |
| 158800 | Same , extra delicate | 164100 | KRAUSE Ear Snare , length 18 cm |
| 161000 | HARTMANN Ear Forceps , serrated, working length 8 cm | 164800 | Snare Wire , for Ear Snares 164100, package of 25 |
| 161200 | Ear Forceps , duckbill, flat, serrated jaws, working length 8 cm | | |



168000 169009 169011 169018 169027 169106 169206 169311 169503
 169014 169506

- 168000 **MUCK Periosteal Knife**, length 13 cm
- 169009 **JANSEN Raspatory**, width 9 mm, length 19.5 cm
- 169011 **Same**, width 11 mm
- 169014 **Same**, width 14 mm
- 169018 **LANGENBECK Raspatory**, width 18 mm, length 19 cm
- 169027 **JANSEN Raspatory**, width 9 mm, length 17 cm
- 169106 v. **EICKEN Raspatory**, width 6 mm, length 19.5 cm
- 169206 **Raspatory**, ERLANGEN model, slightly curved, width 6 mm, length 17.5 cm
- 169203 **Same**, width 3 mm
- 169204 **Same**, width 4 mm
- 169311 **FARABEUF Raspatory**, width 11 mm, length 18 cm
- 169503 **WILLIGER Elevator**, width 3.5 mm, length 16 cm
- 169506 **Same**, width 5 mm



170503 TRAUTMANN **Mastoid Gouge**,
width 3 mm, length 14 cm
170505 **Same**, width 5 mm
170507 **Same**, width 7 mm
170509 **Same**, width 9 mm

170602 TRAUTMANN **Mastoid Chisel**,
width 2 mm, length 14 cm
170603 **Same**, width 3 mm
170605 **Same**, width 5 mm
170607 **Same**, width 7 mm



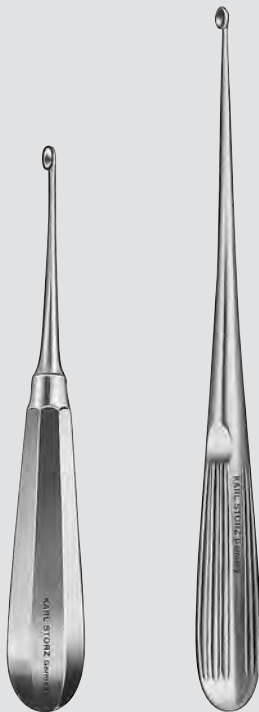
174200

174430

174700

174800

- 174200 **COTTLE Metal Mallet**, length 18 cm
- 174420 **Metal Mallet**, small model, diameter 20 mm, length 19.5 cm
- 174426 **Metal Mallet**, medium model, diameter 26 mm, length 19.5 cm
- 174430 **Metal Mallet**, large model, diameter 30 mm, length 19.5 cm
- 174700 **Metal Mallet**, with plastic replacement head, small, lightweight model, length 18 cm
- 174800 **Metal Mallet**, with plastic replacement head, length 22.5 cm



175840 –
175804

176040 –
176001



- 175840 **SPRATT Mastoid Curette**, size 0000, length 16.5 cm
- 175830 **Same**, size 000
- 175820 **Same**, size 00
- 175810 **Same**, size 0
- 175801 **SPRATT Mastoid Curette**, size 1, length 17 cm
- 175802 **Same**, size 2
- 175803 **Same**, size 3
- 175804 **Same**, size 4
- 176040 **LEMPERT Mastoid Curette**, size 0000, length 21 cm
- 176030 **Same**, size 000
- 176020 **Same**, size 00
- 176010 **Same**, size 0
- 176001 **Same**, size 1

Components/Spare Parts see chapter 16



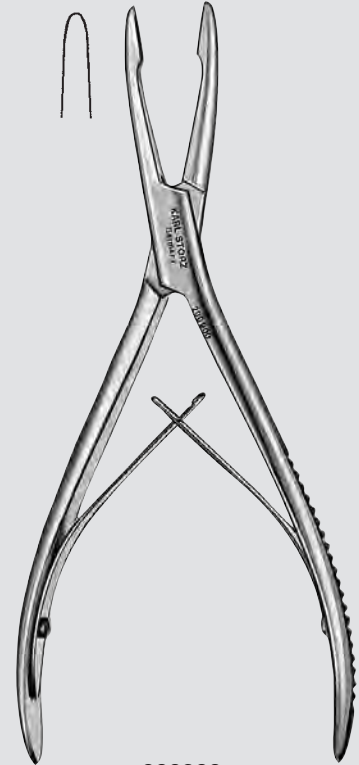
200400



200600



200800



200900



201000

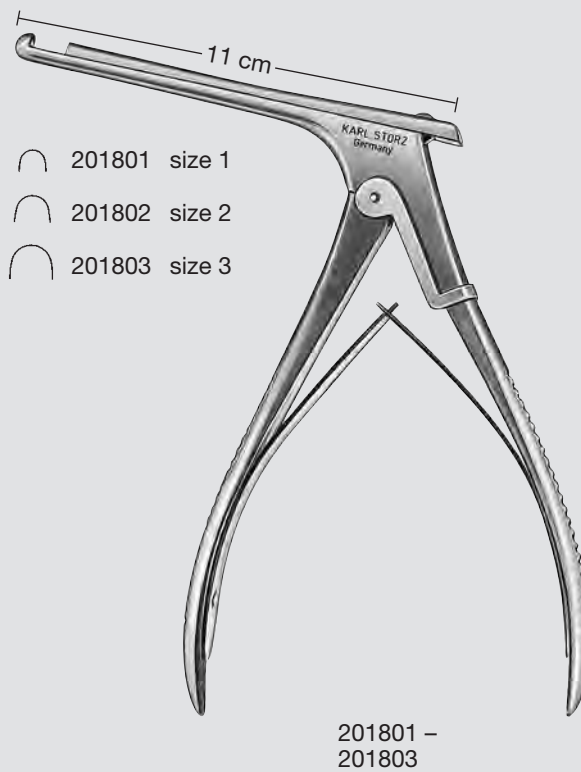


201200

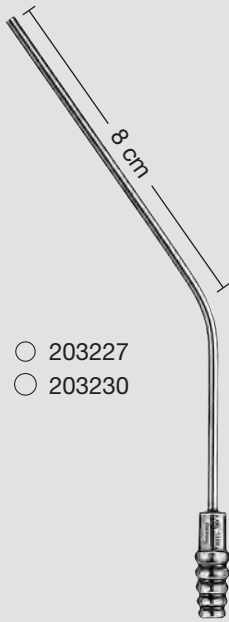


489044

- 200400 **BEYER Rongeur**, slender, curved, length 17 cm
- 200600 **LEMPERT Rongeur**, slender, straight, length 15.5 cm
- 200800 **LUER-HARTMANN Rongeur**, curved, length 17.5 cm
- 200900 **HEANLEY Rongeur**, straight, length 19 cm
- 201000 **JANSEN Rongeur**, bayonet-shaped, length 17 cm
- 201200 **LUER-RUSKIN Rongeur**, with double joint, curved, length 18.5 cm
- 489044 **LUER-RUSKIN Rongeur**, with double joint, curved, 2 mm, length 15 cm

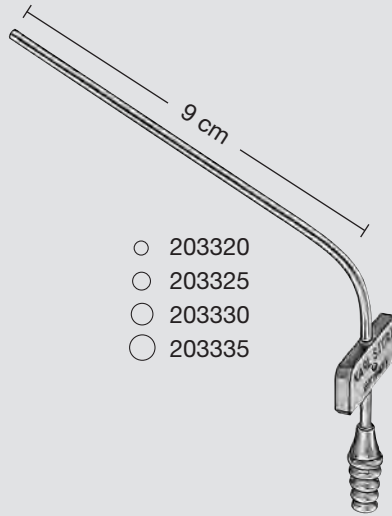


- | | |
|--------|---|
| 201801 | KERRISON Rongeur , size 1, working length 11 cm |
| 201802 | Same , size 2 |
| 201803 | Same , size 3 |



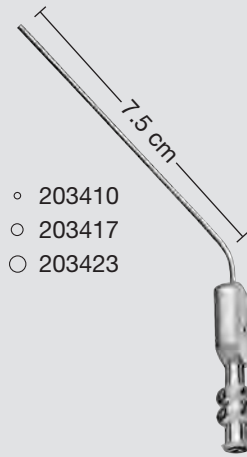
- 203227
- 203230

203227
203230



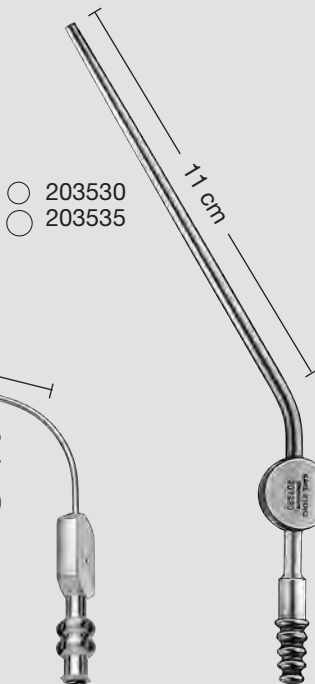
- 203320
- 203325
- 203330
- 203335

203320 –
203335



- 203410
- 203417
- 203423

203410 –
203423



- 203530
- 203535

- 203615
- 203617
- 203620

203615 –
203620

203530
203535

203227

Suction Tube, angular, cylindrical, LUER, outer diameter 2.7 mm, working length 8 cm

203230

Same, outer diameter 3 mm

203320

Suction Tube, angular, with grip plate and cut-off hole, LUER, outer diameter 2 mm, working length 9 cm

203325

Same, outer diameter 2.5 mm

203330

Same, outer diameter 3 mm

203335

Same, outer diameter 3.5 mm

203410

BARON Suction Tube, angular, with grip plate, cut-off hole and stylet, LUER-Lock, outer diameter 1 mm, working length 7.5 cm

203417

Same, outer diameter 1.7 mm

203423

Same, outer diameter 2.3 mm

203530

Suction Tube, angular, conical, LUER, with grip plate, outer diameter 3 mm, working length 11 cm

203535

Same, outer diameter 3.5 mm

203615

BARNES Suction Tube, with cut-off hole, LUER-Lock, outer diameter 1.5 mm, working length 5 cm

203617

Same, outer diameter 1.7 mm

203620

Same, outer diameter 2 mm

○ 203930
○ 203940

○ 203845

○ 203830
○ 203835

9 cm

• 203705
• 203707
• 203710
• 203715

11 cm

13 cm

9 cm

203705 -
203715

○ 203720

7 cm

203720

○ 203725 K

11 cm

203725 K

○ 203725
○ 203730
○ 203740
○ 203750

203725 -
203750

203830
203835

203845

203930
203940

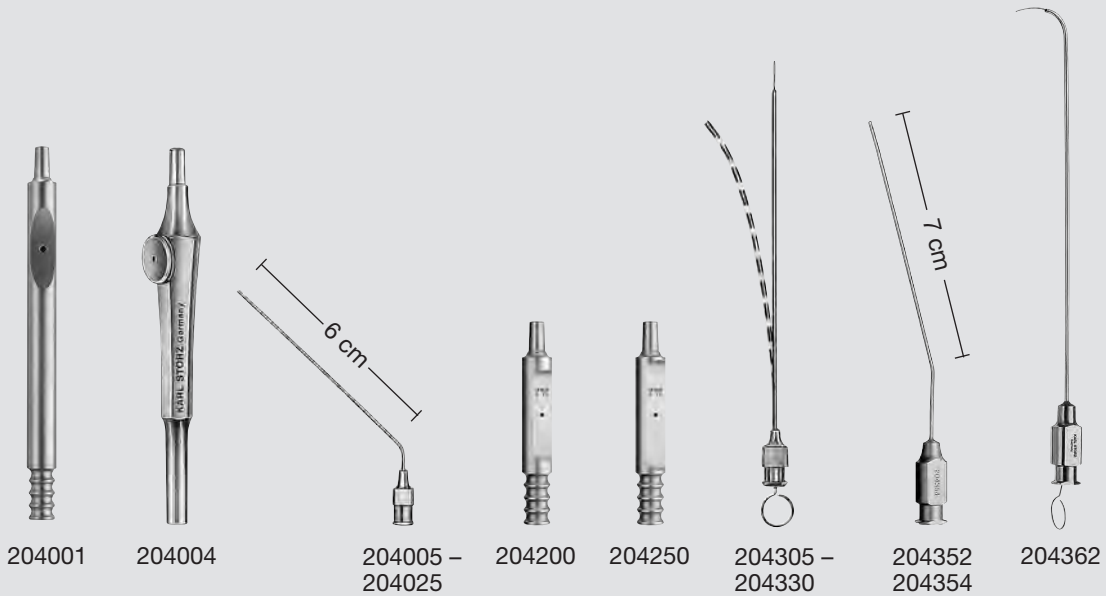
203945

203960

203705
203707
203710
203715
203720
203725 K
203725
203730
203740
203750
203830
203835
203845
203930
203940
203945
203960

Suction Tube, cylindrical, LUER, outer diameter 0.5 mm, working length 9 cm
Same, outer diameter 0.7 mm
Same, outer diameter 1 mm
Same, outer diameter 1.5 mm
Same, outer diameter 2 mm
Suction Tube, cylindrical, LUER, outer diameter 2.5 mm, working length 7 cm
Same, working length 11 cm
Suction Tube, cylindrical, LUER, outer diameter 3 mm, working length 11 cm
Same, outer diameter 4 mm
Same, outer diameter 5 mm
Suction Tube, conical, LUER, outer diameter 3 mm, working length 11 cm
Same, outer diameter 3.5 mm
Suction Tube, conical, LUER, outer diameter 4.5 mm, working length 13 cm
Suction Tube, malleable, LUER, outer diameter 3 mm, length 22.5 cm
Suction Tube, straight, cylindrical, outer diameter 4 mm, length 22.5 cm
Suction Tube, curved, conical, outer diameter 4.5 mm, length 20 cm
Suction Tube, curved, with olive, outer diameter 6 mm, length 19 cm

12-904



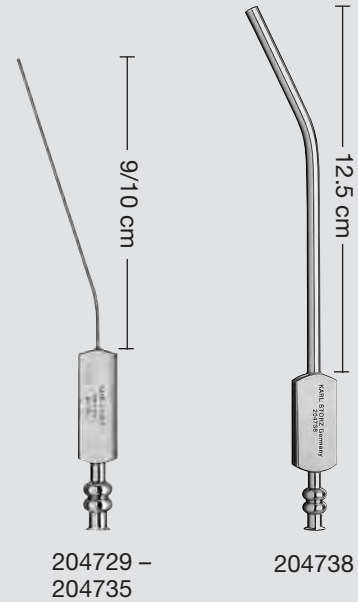
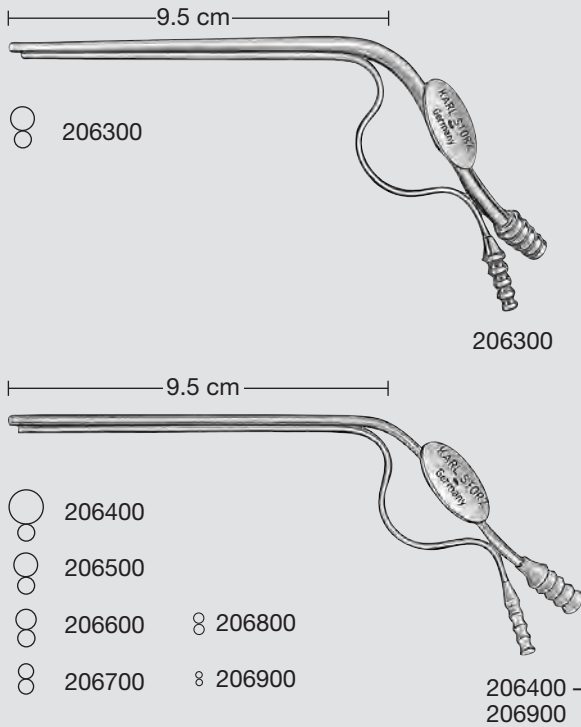
| | | | |
|--------|---|--------|---|
| 204001 | Suction Handle , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330 | 204305 | Suction Tube , straight, LUER-Lock, malleable, outer diameter 0.5 mm, length 10 cm |
| 204004 | WULLSTEIN Suction Handle , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330 | 204307 | Same , outer diameter 0.7 mm |
| 204005 | Suction Tube , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm | 204310 | Same , outer diameter 1 mm |
| 204007 | Same , outer diameter 0.7 mm | 204313 | Same , outer diameter 1.3 mm |
| 204008 | Same , outer diameter 0.8 mm | 204315 | Same , outer diameter 1.5 mm |
| 204010 | Same , outer diameter 1 mm | 204320 | Same , outer diameter 2 mm |
| 204013 | Same , outer diameter 1.3 mm | 204325 | Same , outer diameter 2.5 mm |
| 204015 | Same , outer diameter 1.5 mm | 204330 | Same , outer diameter 3 mm |
| 204020 | Same , outer diameter 2 mm | 204352 | Suction Tube , angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm, for use with Handle 204250 |
| 204025 | Same , outer diameter 2.5 mm | 204354 | Same , outer diameter 1 mm |
| 204200 | FISCH Suction Handle , with cut-off hole, LUER cone, length 5.5 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330 | 204360 | Suction Tube , curved 6 mm, LUER-Lock, outer diameter 0.8 mm, length 10 cm |
| 204250 | FISCH Suction Handle , with long thumb grip, cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm, for use with Suction Tubes 204352 – 204354 | 204361 | Irrigation Cannula , curved 6 mm, LUER-Lock, outer diameter 1 mm, length 10 cm |
| | | 204362 | Suction Tube , curved 6 mm, LUER-Lock, outer diameter 1.2 mm, length 10 cm |
| | | 204365 | Same , curved 8 mm |
| | | 204366 | Same , curved 8 mm, outer diameter 1.6 mm |

58952 K 204405 – 204409 204500 204615 204620 204700 204705 – 204712 204806 – 204815

○ 204806
○ 204808
○ 204809
○ 204810
○ 204812
○ 204815

| | |
|---|---|
| <p>58952 K Suction Tube, curved, with titanium tips, slotted, inner diameter 1.5 mm, length 18 cm</p> <p>58952 G Same, inner diameter 3 mm</p> <p>204405 PLESTER Suction Tube, with grip plate, cut-off hole and stylet, LUER, 5 Fr., length 20 cm</p> <p>204407 Same, 7 Fr.</p> <p>204408 Same, 8 Fr.</p> <p>204409 Same, 9 Fr.</p> <p>204500 WULLSTEIN Suction and Irrigation Tube, conical, silver, LUER, outer diameter 1 mm, length 13 cm</p> <p>204615 Suction and Irrigation Tube, cylindrical, silver, LUER, outer diameter 1.5 mm, length 13 cm</p> <p>204620 Suction and Irrigation Tube, cylindrical, silver, LUER, outer diameter 2 mm, length 15 cm</p> <p>204700 ZÖLLNER Suction Tube, LUER-Lock, outer diameter 2.5 mm, length 13 cm</p> | <p>204705 Suction Tip, for 204700, outer diameter 0.5 mm, length 4 cm</p> <p>204706 Same, outer diameter 0.6 mm</p> <p>204707 Same, outer diameter 0.7 mm</p> <p>204709 Same, outer diameter 0.9 mm</p> <p>204712 Same, outer diameter 1.2 mm</p> <p>204806 FERGUSON Suction Tube, with cut-off hole and stylet, LUER, 6 Fr., working length 11 cm</p> <p>204808 Same, 8 Fr.</p> <p>204809 Same, 9 Fr.</p> <p>204810 Same, 10 Fr.</p> <p>204812 Same, 12 Fr.</p> <p>204815 Same, 15 Fr.</p> |
|---|---|

3-993



| | | | |
|--------|--|--------|--|
| 206300 | FISCH Suction and Irrigation Tube , conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm | 207000 | Silicone Tubing, autoclavable , coil length 100 cm, outer diameter 8 mm |
| 206400 | FISCH Suction and Irrigation Tube , cylindrical, suction tube outer diameter 4.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm | 204729 | FISCH Suction Tube , angular, with grip plate, outer diameter 1.2 mm, working length 9 cm |
| 206500 | Same , suction tube outer diameter 3 mm, irrigation tube outer diameter 2 mm | 204730 | Same , outer diameter 1.5 mm |
| 206600 | Same , suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm | 204732 | Same , outer diameter 2 mm |
| 206700 | Same , suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm | 204733 | Same , outer diameter 2.2 mm |
| 206800 | Same , suction tube outer diameter 1.5 mm, irrigation tube outer diameter 1.5 mm | 204735 | Same , outer diameter 3 mm, working length 10 cm |
| 206900 | Same , suction tube outer diameter 1 mm, irrigation tube outer diameter 1 mm | 204738 | Same , outer diameter 5 mm, working length 12.5 cm |

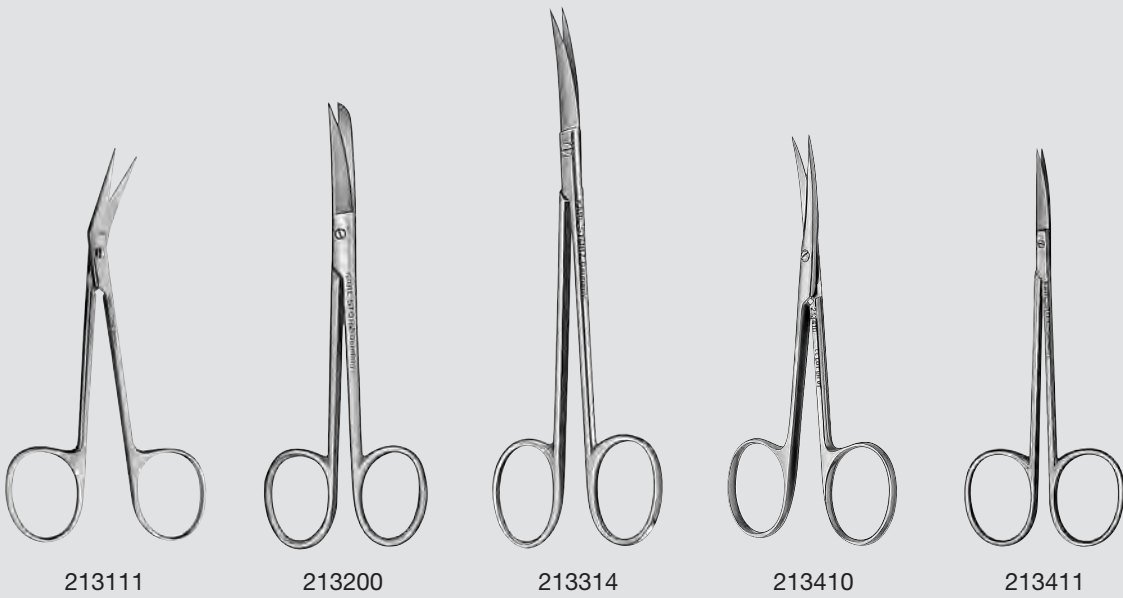


211804 212000 212002 212803 212807 213004 213005 213008

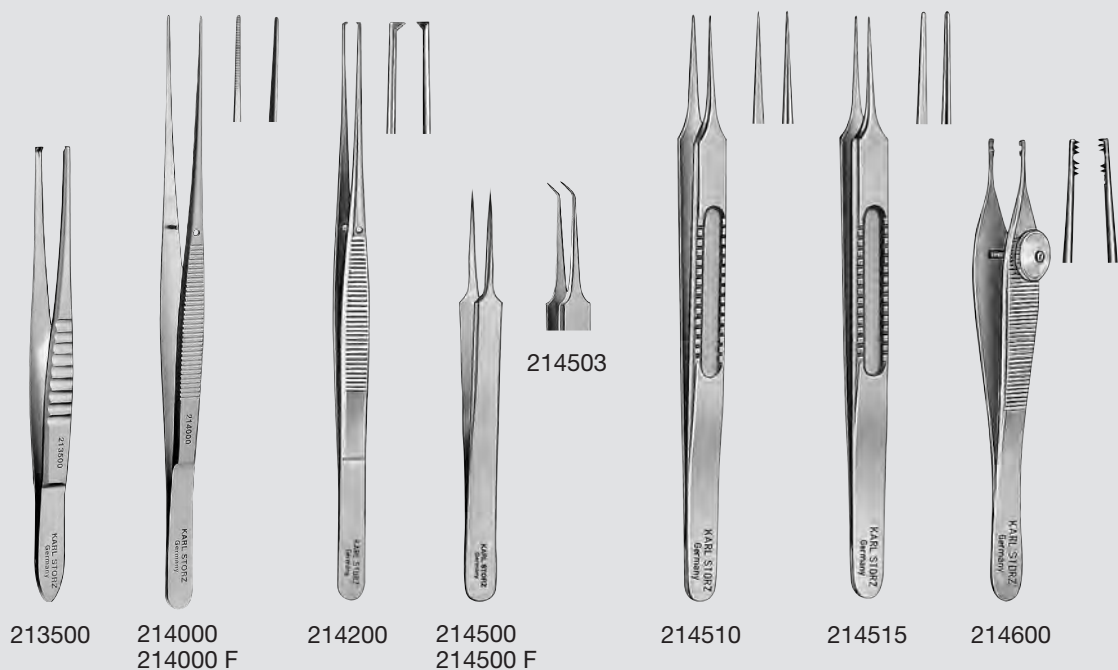


213011 213015

- 211804 **FISCH Dual Purpose Scalpel Handle**,
elevator on one side, scalpel handle no. 7
on the other side, length 16 cm
- 212000 **WULLSTEIN Raspator**, length 18 cm
- 212002 **DIETER Raspator**, width 2.2 mm,
length 18 cm
- 212803 **LEMPERT Raspator**, width 3 mm,
length 19 cm
- 212807 **LEMPERT Raspator**, curved,
width 7 mm, length 18 cm
- 213004 **FISCH Raspator**, slightly curved,
width 4 mm, length 18 cm
- 213005 **FISCH Dura Elevator**, width 5 mm,
length 16 cm
- 213008 **PLESTER Raspator**, width 8 mm,
length 18 cm
- 213011 **FISCH Raspator**, width 10 mm,
length 16 cm
- 213015 **FISCH Periosteal Raspator**,
angled, width 11 mm, length 21 cm



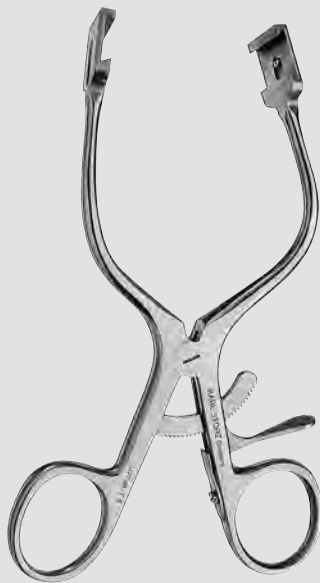
- 213111 **Scissors**, angled, very delicate, sharp/sharp, length 11 cm
- 213200 **Scissors**, curved, sharp/blunt, length 12 cm
- 213314 **WULLSTEIN Scissors**, curved, sharp/sharp, length 14 cm
- 213410 **FISCH Scissors**, extra delicate, curved, sharp/sharp, length 10.5 cm
- 213411 **FISCH Scissors**, fine, curved, sharp/sharp, length 10.5 cm



- 213500 **Tissue Forceps**, 1 x 2 teeth, length 11.5 cm
- 214000 **WULLSTEIN Forceps**, serrated, length 15 cm
- 214000 F **Same**, soft spring-action
- 214200 **WULLSTEIN Forceps**, 1 x 2 teeth, length 15 cm
- 214500 **Jeweler Forceps**, fine, pointed, length 11 cm
- 214500 F **Same**, soft spring-action
- 214503 **Suture Forceps**, angled, length 11 cm
- 214510 **Suture Forceps**, smooth, width of jaws 0.5 mm, length 16 cm
- 214515 **Same**, width of jaws 0.8 mm
- 214600 **DERLACKI Clamp, Ossicle Holding**, length 12 cm

Special Features:

- Movable blades enable retraction of the operative field
- Exchangeable blades (2-prong/3-prong/full blade) enable individual adjustment of the retractor
- 5 different blades available
- One retractor replaces many different models
- Relatively low blade replacement costs



219550



219552



219553



219555



219562



219563

219550 OTT **Retractor**, length 13 cm, for use with adjustable, detachable valves 219552 – 219563

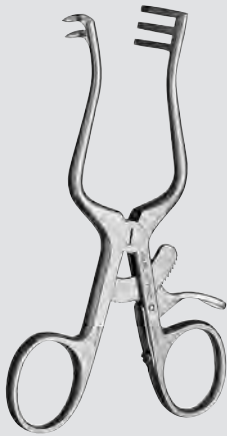
219552 **Valve**, 2 prongs, 45°, blunt, for use with Retractor 219550

219553 **Same**, 3 prongs

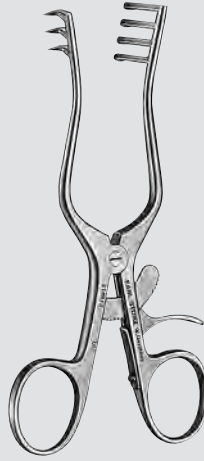
219555 **Valve**, full blade, for use with Retractor 219550

219562 **Valve**, 2 prongs, 90°, blunt, for use with Retractor 219550

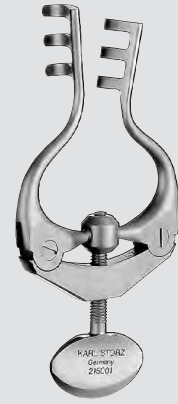
219563 **Same**, 3 prongs



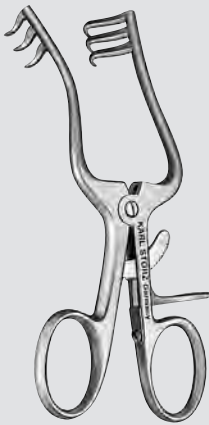
214811



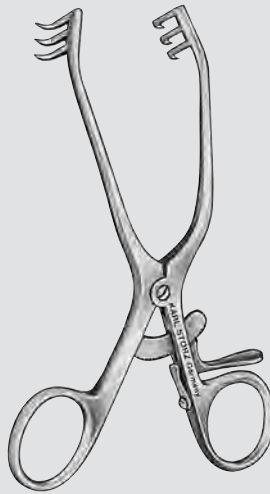
214813 –
214820



215001



219511
219513



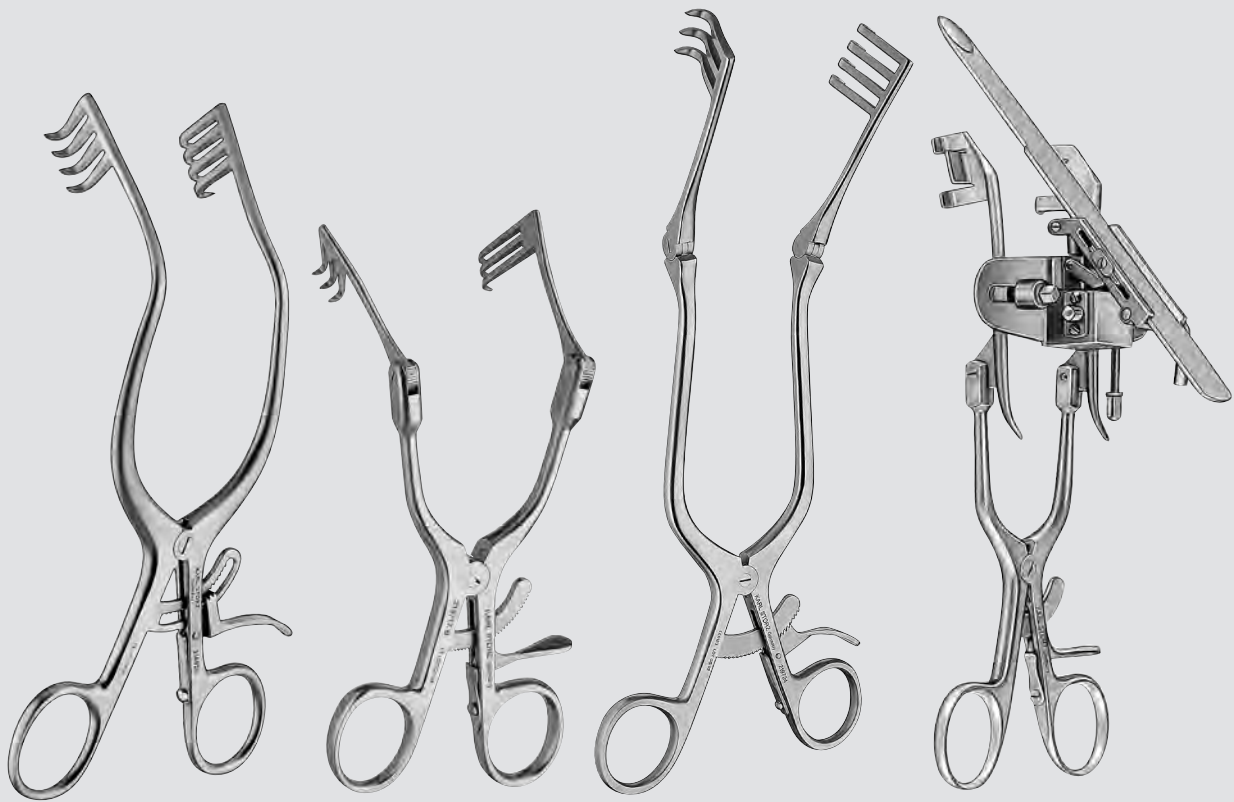
219613



219714 K

- 214811 WEITLANER **Retractor**, 2 x 3 prongs, blunt, length 11 cm
- 214813 WEITLANER **Retractor**, 3 x 4 prongs, sharp, length 13 cm
- 214816 **Same**, length 16 cm
- 214820 **Same**, length 20 cm
- 215001 JANSEN **Retractor**, 3 x 3 prongs, blunt, length 10 cm

- 219511 WULLSTEIN **Retractor**, 3 x 3 prongs, length 11 cm
- 219513 **Same**, length 13 cm
- 219613 BELLUCCI **Retractor**, 3 x 3 prongs, length 13 cm
- 219714 K DALCHOW **Retractor**, small model for children, 3 x 3 prongs, sharp, with adjustable swivel arms, length 14 cm



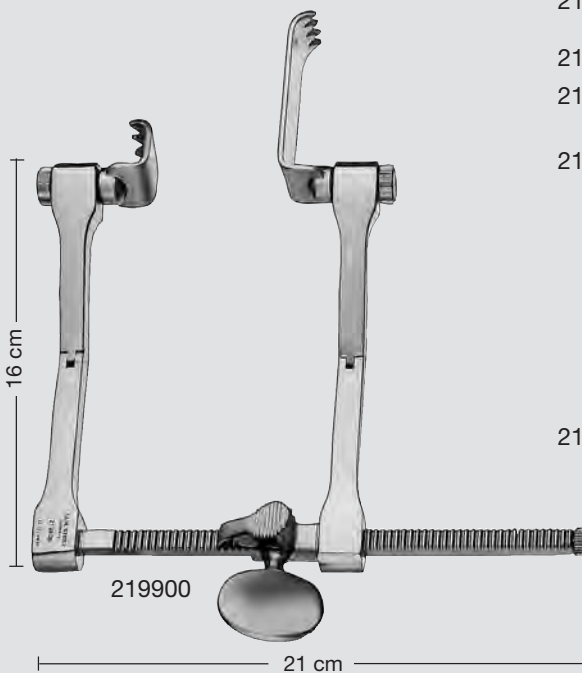
214920

219717
219717 B

219724

219800

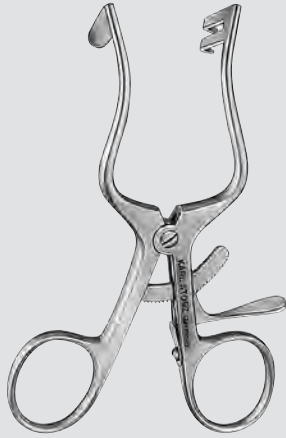
- 214920 **ANDERSON-ADSON Retractor**,
4 x 4 prongs, sharp, curved,
length 20 cm
- 219717 **FISCH Retractor**, articulated,
3 x 3 prongs, semisharp, length 17 cm
- 219717 B **Same**, sharp
- 219724 **Retractor**, articulated, 3 x 4 prongs,
sharp, length 24 cm
- 219800 **FISCH Dura Retractor**, length 18 cm
including:



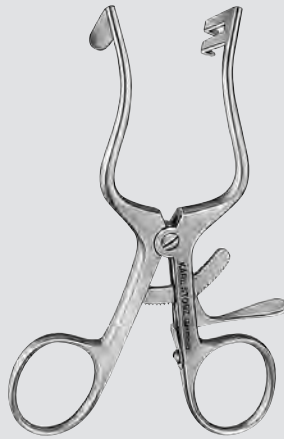
219900

- 219900 **FISCH Glomus Retractor** (infratemporal
fossa retractor), size 21 x 16 cm
including:
- Retractor Blade**, short
- Retractor Blade**, long
- Retractor Blade**, long and slim, with drill hole
- Retractor Frame**, without blades

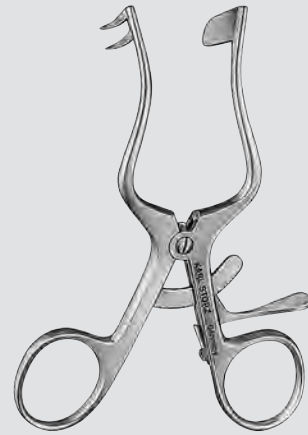
Components/Spare Parts see chapter 16



220211 – 220213 N



220411



220511



220421
220421 K



220521
220521 K

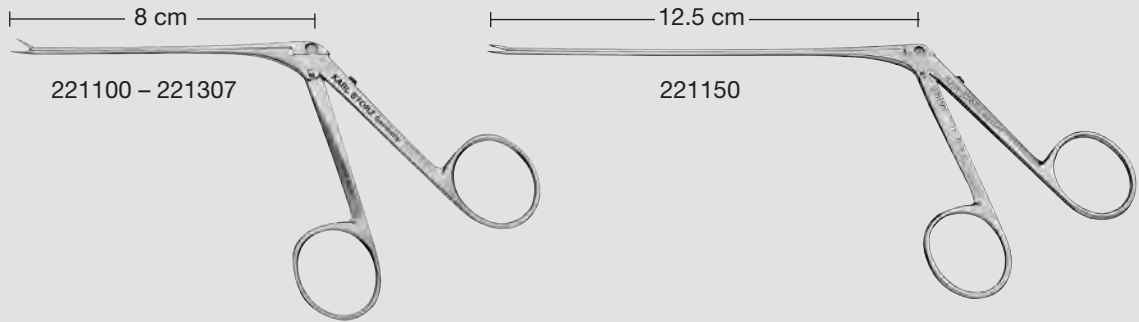


220700



220703

- 220211 PLESTER **Retractor**, 2 x 2 prongs, length 11 cm
- 220211 K DALCHOW **Retractor**, small model for children, 2 x 2 prongs, length 11 cm
- 220213 FISCH **Retractor**, 2 x 2 prongs, length 13 cm
- 220213 N **Same**, with black coating
- 220411 PLESTER **Retractor**, 2 prongs on right, left full blade, length 11 cm
- 220421 PLESTER-HELMS **Retractor**, 2 prongs on right, full blade on left, with atraumatic teeth, length 11 cm
- 220421 K DALCHOW **Retractor**, small model for children, 2 prongs on right, left full blade with atraumatic teeth, length 11 cm
- 220511 PLESTER **Retractor**, 2 prongs on left, full blade on right, length 11 cm
- 220521 PLESTER-HELMS **Retractor**, 2 prongs on left, full blade on right, with atraumatic teeth, length 11 cm
- 220521 K DALCHOW **Retractor**, small model for children, 2 prongs on left, right full blade with atraumatic teeth, length 11 cm
- 220700 WILLIGER **Retractor**, 4 prongs, sharp, length 13 cm
- 220703 WILLIGER **Retractor**, 3 prongs, sharp, length 13 cm



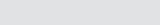
221100 HARTMANN **Ear Forceps**, extra delicate, serrated, 1 x 4.5 mm, working length 8 cm



221150 **Same**, working length 12.5 cm



221105 FISCH-HARTMANN **Ear Forceps**, delicate, serrated, 1.2 x 8 mm, working length 8 cm



221107 **Same**, 1.2 x 12 mm



221110 FISCH-HARTMANN **Ear Forceps**, extra delicate, smooth, 1 x 4.5 mm, working length 8 cm



221111 FISCH **Ear Forceps**, extra delicate, smooth, 0.4 x 3.5 mm, working length 8 cm



221111 FN FISCH **Ear Forceps**, very fine, smooth, with black coating, 0.4 x 3.5 mm, working length 8 cm



221112 **Ear Forceps**, straight, with spring, smooth, 4 mm, working length 8 cm



221200 FISCH **Ear Forceps**, extra delicate, pointed, serrated, 1 x 4.5 mm, working length 8 cm



221201 FISCH **Ear Forceps**, extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm



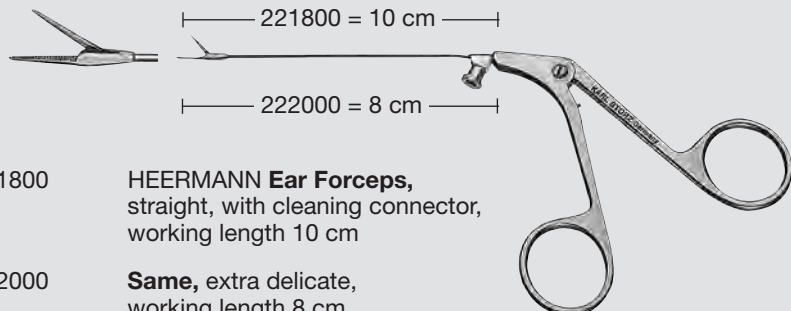
221304 **Ear Forceps**, extra delicate, serrated, curved to right, working length 8 cm



221305 **Same**, curved to left



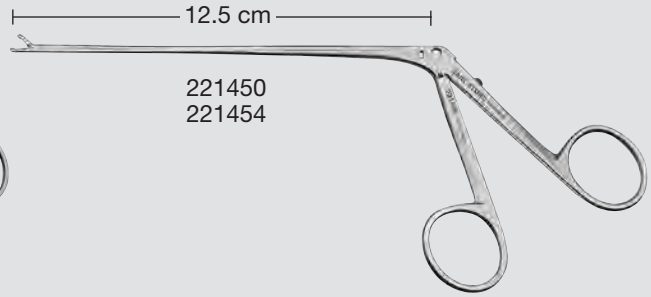
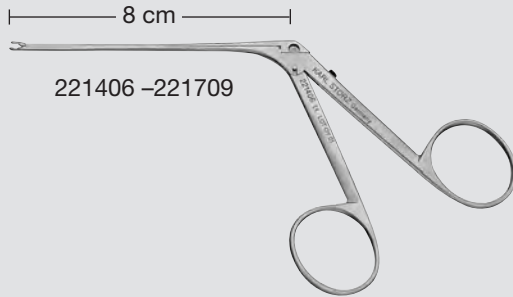
221307 **Same**, curved upwards



221800 HEERMANN **Ear Forceps**, straight, with cleaning connector, working length 10 cm



222000 **Same**, extra delicate, working length 8 cm



221406 **WULLSTEIN Ear Forceps**, extra delicate, oval cupped jaws, 0.6 mm, working length 8 cm



221406 F **FISCH Ear Forceps**, extra delicate, oval cupped jaws, 0.6 mm, with thin sheath, working length 8 cm



221406 FN **Same**, with black coating



221409 **WULLSTEIN Ear Forceps**, extra delicate, oval cupped jaws, 0.9 mm, working length 8 cm



221450 **WULLSTEIN Ear Forceps**, very fine, round cupped jaws, diameter 1 mm, working length 12.5 cm



221454 **FISCH Ear Forceps**, round cupped jaws, diameter 3 mm, working length 12.5 cm



221509 **WULLSTEIN Ear Forceps**, extra delicate, oval cupped jaws, curved to right, oval, 0.9 mm, working length 8 cm



221609 **Same**, curved to left



221709 **Same**, curved upwards



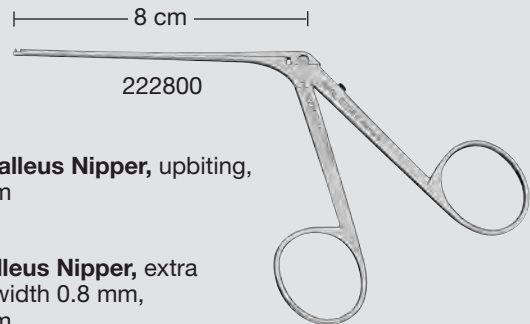
222800 **HOUSE-DIETER Malleus Nipper**, upbiting, working length 8 cm



222900 **Same**, downbiting



222801 **FISCH-DIETER Malleus Nipper**, extra delicate, upbiting, width 0.8 mm, working length 8 cm



223000 **Instrument Guard**, teflon, autoclavable, for micro forceps and micro scissors with working length 8 cm, length 11.5 cm



9 cm

222401 – 222404



222401

WULLSTEIN Scissors, delicate, straight, with cleaning connector, working length 9 cm



222402

Same, curved upwards



222403

Same, curved to left



222404

Same, curved to right



8 cm

222405



222405

WULLSTEIN Scissors, extra delicate, straight, with cleaning connector, working length 8 cm



7.5 cm

222710



222710

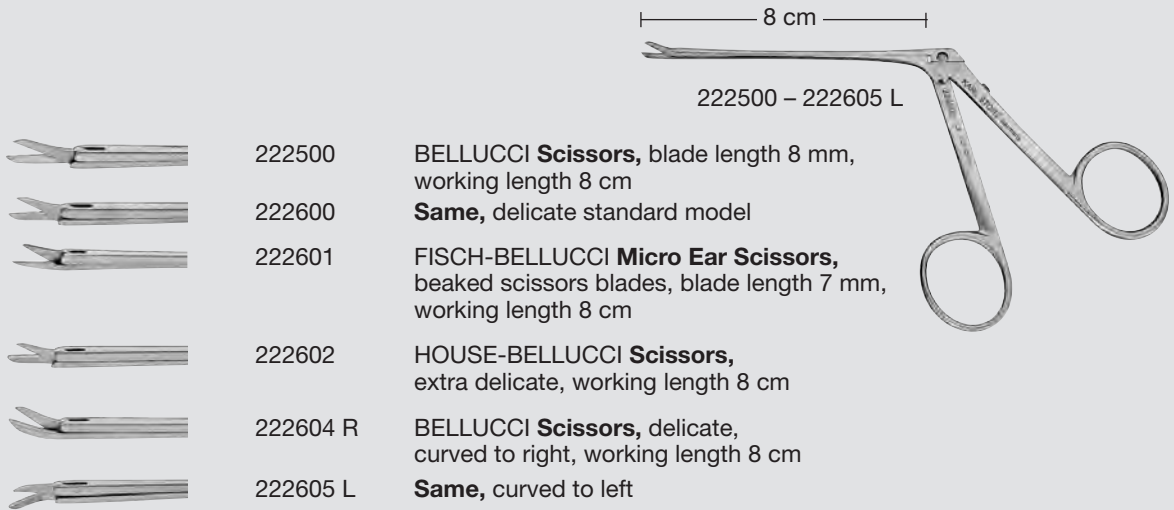
FISCH Crurotomy Scissors, curved to right, working length 7.5 cm



222720

Same, curved to left





222500

BELLUCCI Scissors, blade length 8 mm, working length 8 cm

222600

Same, delicate standard model

222601

FISCH-BELLUCCI Micro Ear Scissors, beaked scissors blades, blade length 7 mm, working length 8 cm

222602

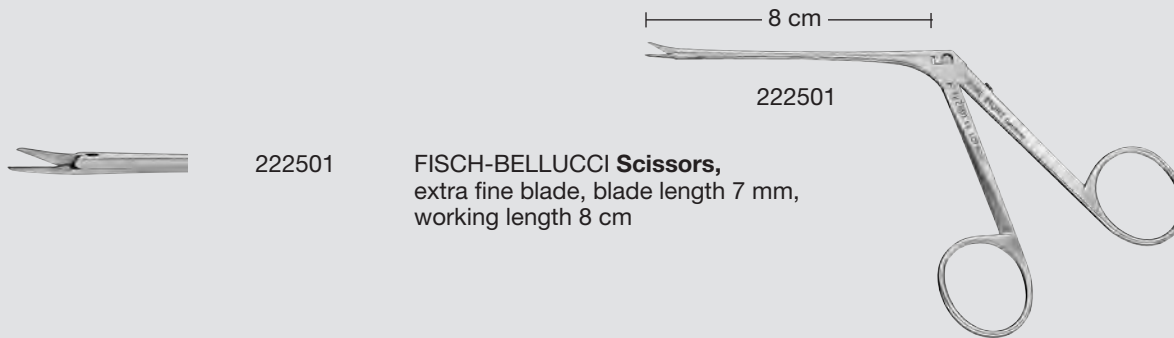
HOUSE-BELLUCCI Scissors, extra delicate, working length 8 cm

222604 R

BELLUCCI Scissors, delicate, curved to right, working length 8 cm

222605 L

Same, curved to left



222501

FISCH-BELLUCCI Scissors, extra fine blade, blade length 7 mm, working length 8 cm



222603

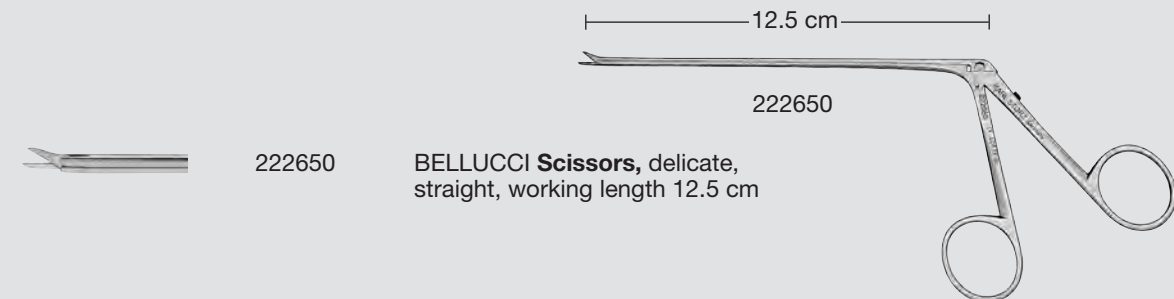
FISCH-BELLUCCI Micro Scissors, extra delicate scissor blades, blade length 3 mm, working length 8 cm

222606

Same, with thin shaft

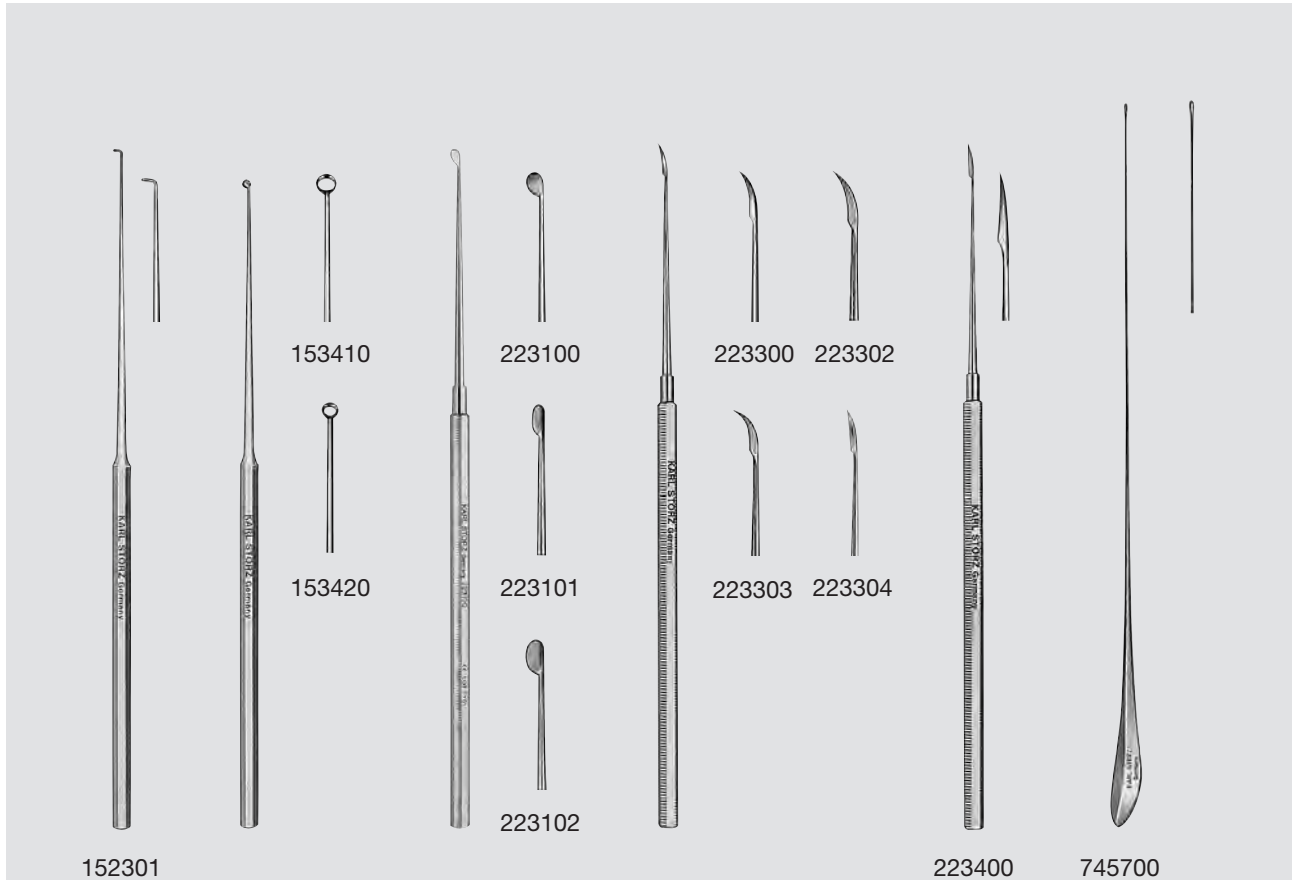
222606 N

FISCH-BELLUCCI Micro Ear Scissors, extra delicate scissor blades, blade length 2 mm, with black coating, with thin shaft, working length 8 cm

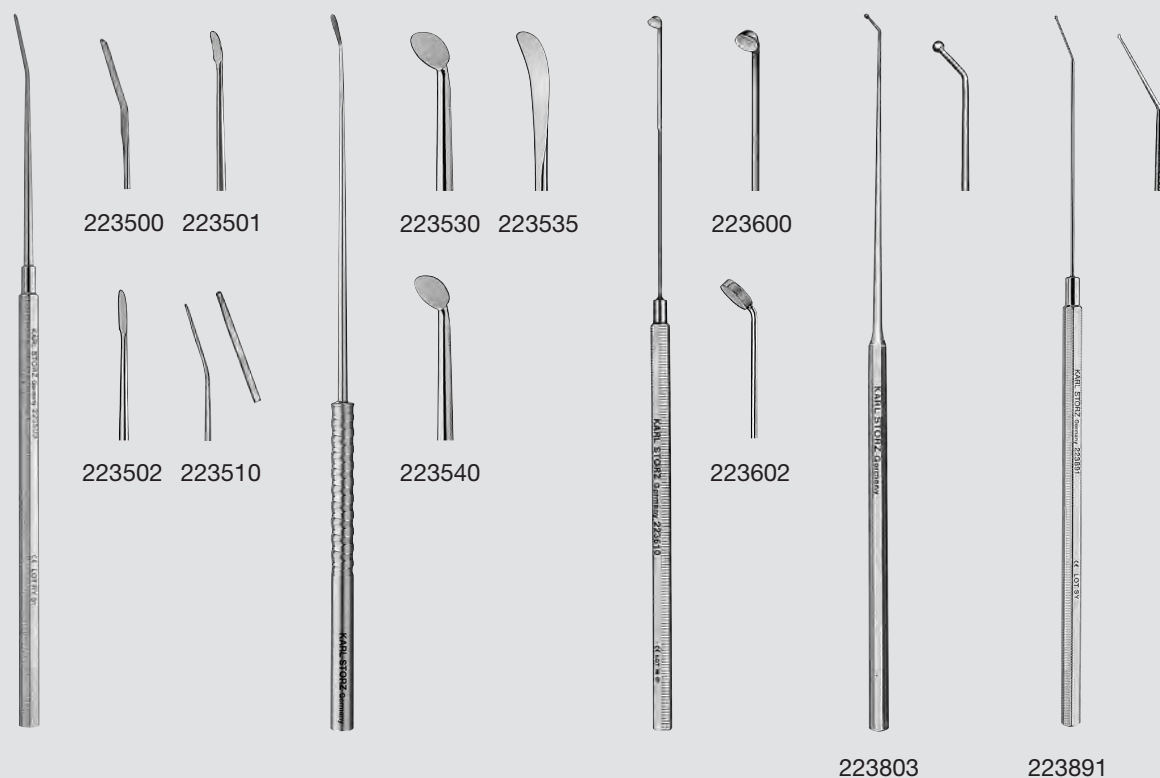


222650

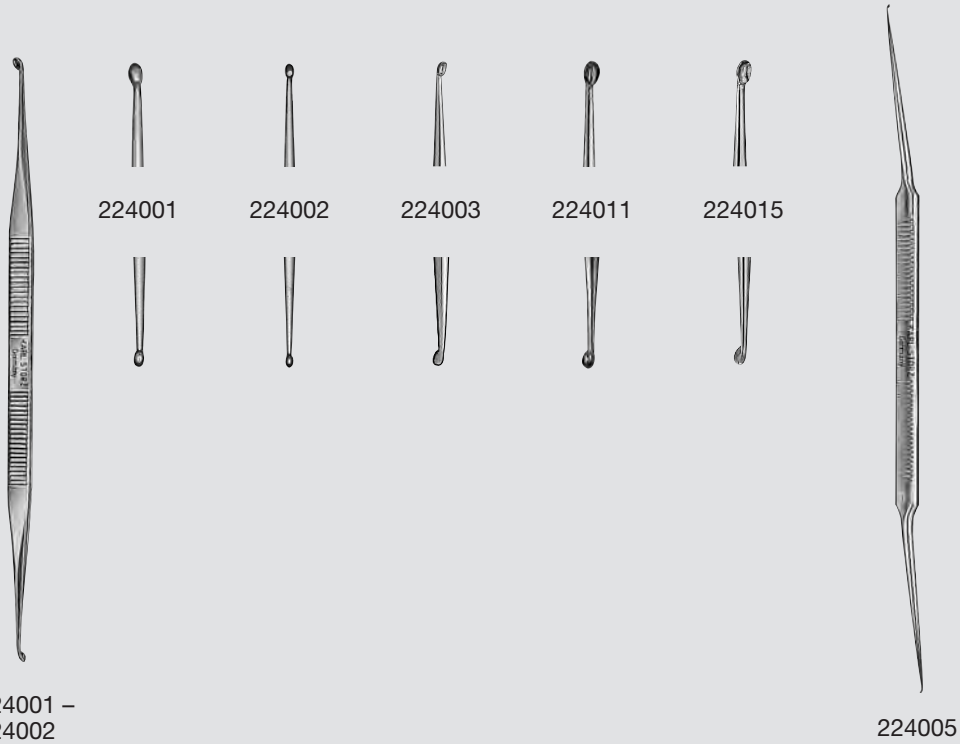
BELLUCCI Scissors, delicate, straight, working length 12.5 cm



- 152301 **Ear Hook**, without ball end, size 1, length 15.5 cm
- 153410 **BUCK Ear Curette**, sharp, size 0, length 14.5 cm
- 153420 **Same**, size 00
- 223100 **PLESTER Knife**, round, vertical, standard size 3.5 x 2.5 mm, length 16 cm
- 223101 **Same**, medium 4 x 2 mm
- 223102 **Same**, large 4.5 x 2.5 mm
- 223300 **PLESTER Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- 223302 **Same**, medium curved
- 223303 **Same**, strongly curved
- 223304 **Same**, extra delicate, slightly curved
- 223400 **KLEY Knife**, footplate, length 16 cm
- 745700 **SEIFFERT Probe**, for salivary duct, silver, extra delicate, diameter 0.5 mm, length 18 cm



- 223500 ROSEN **Elevator**, tip angled 15°, 12 mm long, width 1.5 mm, length 16 cm
- 223501 BEALES **Elevator**, curved, width 1.5 mm, length 16 cm
- 223502 HUGHES **Elevator**, curved, width 1.1 mm, length 16 cm
- 223510 HOUSE **Elevator**, tip angled 15°, 12 mm long, width 1 mm, length 16 cm
- 223530 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm
- 223535 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, slightly curved spatula, straight, with round handle, size 3 mm, length 17 cm
- 223540 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, round spatula, tip angled 45°, with round handle, size 3 mm, length 17 cm
- 223600 **Tympanic Mirror**, REGENSBURG model, stainless steel, diameter 3 mm, length 16 cm
- 223602 **Micro Mirror**, metal, stainless steel, diameter 5 mm, length 16 cm
- 223803 **Seeker**, with ball end, angled 45°, size 3, length 15.5 cm
- 223891 **Seeker**, extra delicate, angled 25°, with ball end diameter 1 mm, length 16 cm



- 224001 HOUSE **Curette**, large, spoon sizes 2 x 3.2 mm and 1.6 x 2.6 mm, length 15 cm
- 224002 **Same**, small, spoon sizes 1 x 1.6 mm and 1.3 x 2 mm
- 224003 HOUSE **Curette**, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm
- 224005 HOUSE **Curette**, angular, extra small, spoon sizes 0.6 x 0.8 mm and 0.8 x 1 mm, length 17 cm
- 224011 HOUSE **Curette**, straight, extra large, spoon sizes 2.3 x 3.5 mm and 2.7 x 4.3 mm, length 15 cm
- 224015 HOUSE-BABIGHIAN **Curette**, toothed, extra large, spoon sizes 2.4 x 3.4 mm and 2.6 x 4 mm, length 16 cm

Ear



- 224301 **WULLSTEIN Needle**, strong long curve, length 16.5 cm
- 224302 **Same**, medium curve
- 224303 **Same**, slight curve
- 224304 **Same**, straight

- 224400 **PLESTER Guiding Fork**, length 15.5 cm

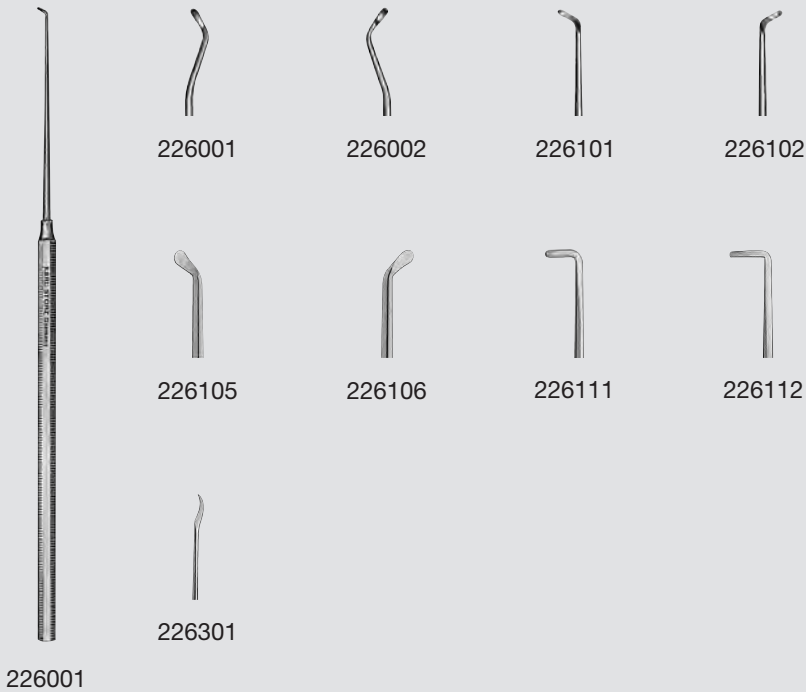
- 224600 **PLESTER Hook**, retrospective, 2 mm, length 15.5 cm

- 224802 **Footplate Hook**, 0.2 mm, length 16 cm
- 224806 **PLESTER Footplate Hook**, 0.6 mm, length 16 cm
- 224812 **FISCH Footplate Hook**, tip angled upwards 90°,
0.2 mm, length 16 cm
- 224813 **Same**, tip angled downwards

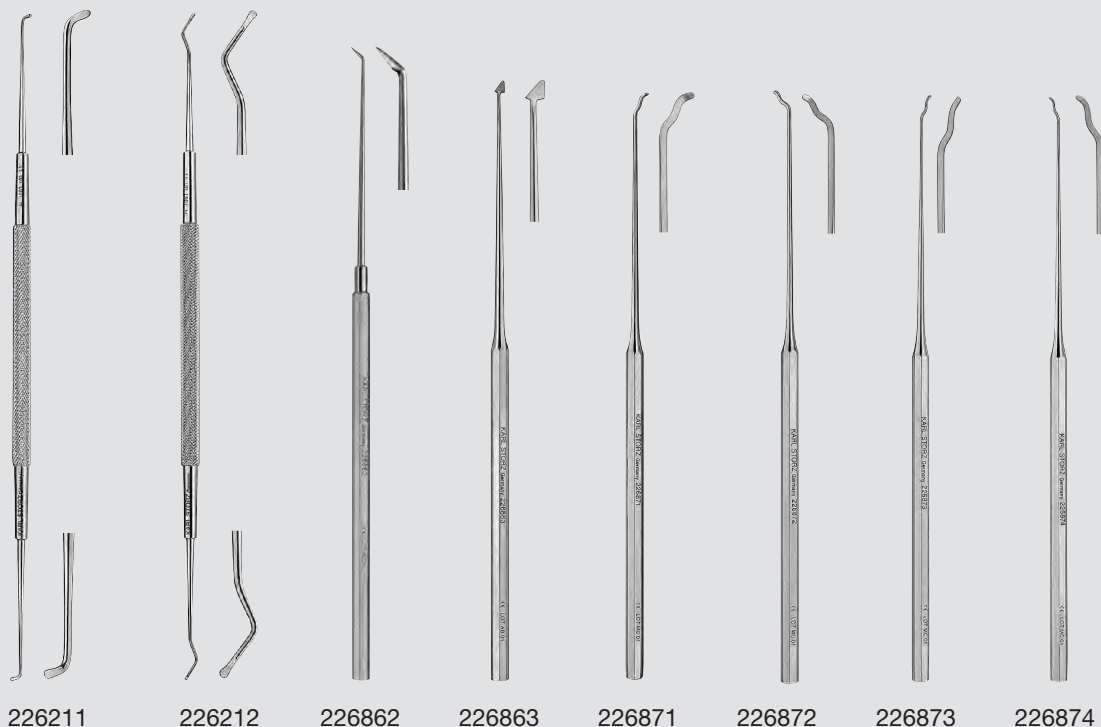
- 225008 **HEERMANN Hook**, reinforced, retrospective,
0.8 mm, length 16 cm



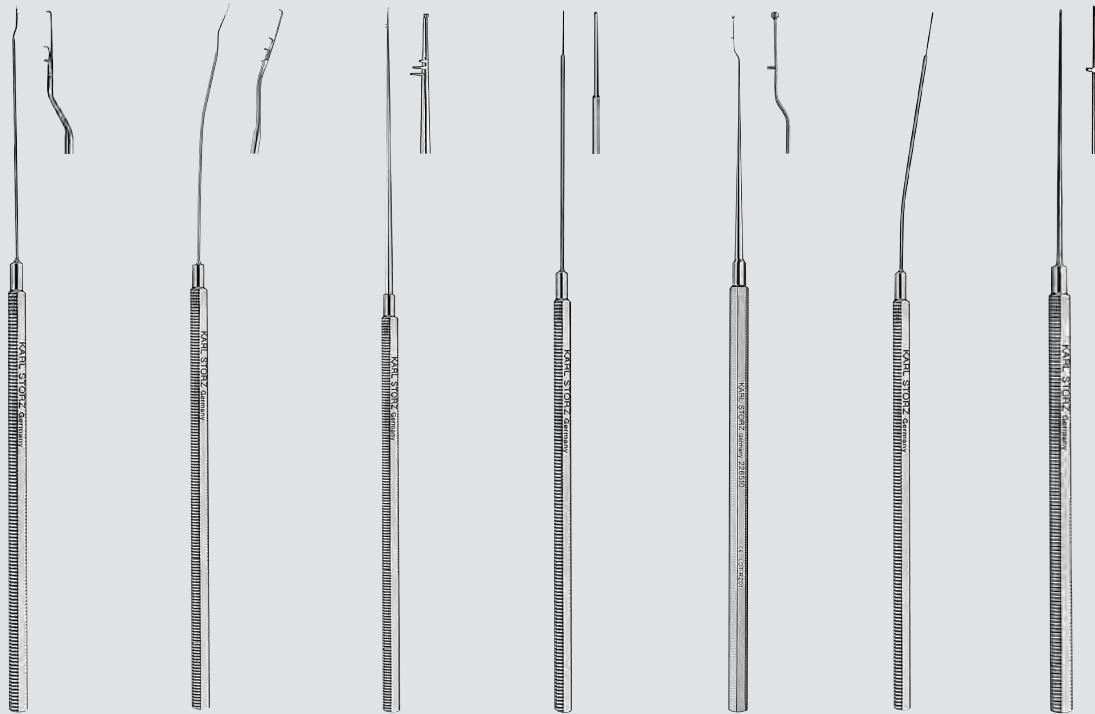
- | | |
|--|--|
| <ul style="list-style-type: none"> 225204 – 225250 Pick, 90°, length 16 cm 225204 0.4 mm 225205 0.5 mm 225206 0.6 mm 225208 0.8 mm 225210 1.0 mm 225212 1.2 mm 225215 1.5 mm 225220 2.0 mm 225225 2.5 mm 225230 3.0 mm 225240 4.0 mm 225250 5.0 mm | <ul style="list-style-type: none"> 225405 – 225425 Pick, 45°, length 16 cm 225405 0.5 mm 225406 0.6 mm 225408 0.8 mm 225410 1.0 mm 225415 1.5 mm 225420 2.0 mm 225425 2.5 mm |
|--|--|



- 226001 FISCH **Micro Raspatory**, double curved to right, length 16 cm
- 226002 **Same**, left
- 226101 FISCH **Micro Raspatory**, single curved to right, length 16 cm
- 226102 **Same**, left
- 226105 DALCHOW **Micro Raspatory**, single curved to right, width 1.5 mm, length 16 cm
- 226106 **Same**, left
- 226111 CRABTREE **Dissector Pick**, length 16 cm, 90°, flat, width 0.5 mm, length 1.5 mm
- 226112 **Same**, length 2.5 mm
- 226301 FISCH **Tenotome**, sickle-shaped, extra delicate, length 16 cm



- 226211 THOMASSIN **Dissector**, double-ended, distal tips with single curve to right or to left, length 18 cm
- 226212 THOMASSIN **Dissector**, double-ended, distal tips with double curve to right or to left, length 18 cm
- 226862 HOUSE **Lancet Knife**, triangular, rounded tip angled upwards 45°, size 2 x 3 mm, length 16 cm
- 226863 ROSEN **Lancet Knife**, triangular, rounded tip angled upwards 45°, size 3 x 3 mm, length 15.5 cm
- 226871 WHIRLY-BIRD **Knife**, sharp, strong right curved, size 1 x 5 mm, length 15 cm
- 226872 **Same**, strong left curved
- 226873 WHIRLY-BIRD **Knife**, sharp, slight right curved, size 0.75 x 5 mm, length 15 cm
- 226874 **Same**, slight left curved

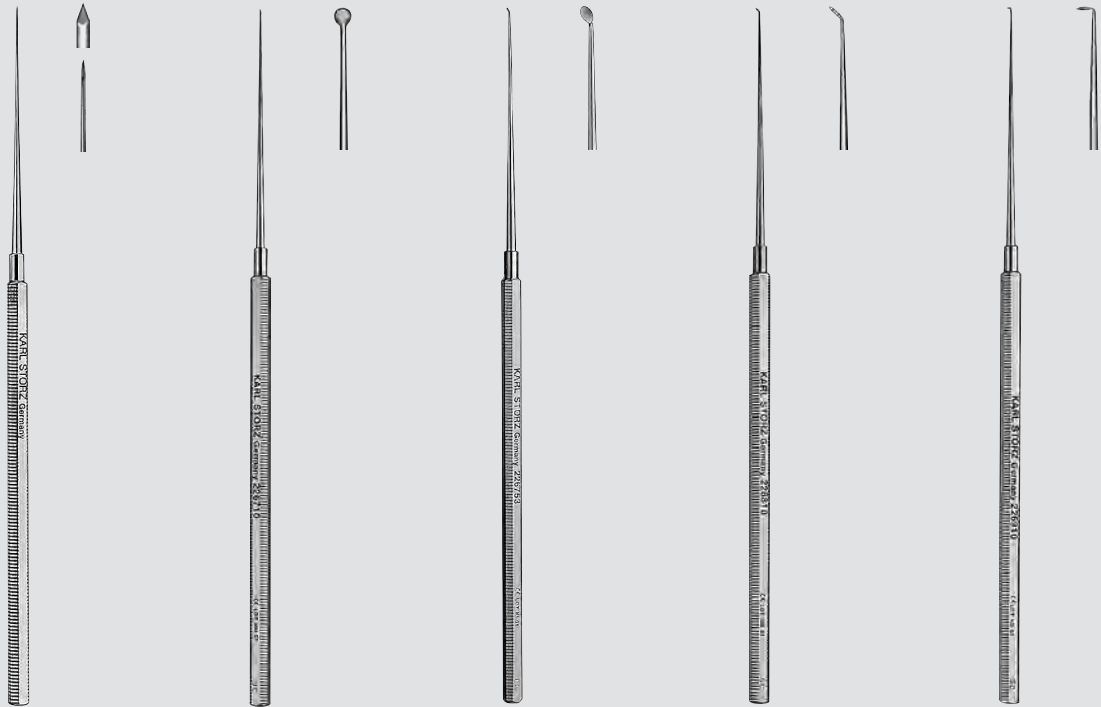


226500 226501 226502 226504 – 226506 226510 226514 226516 226540 – 226550

- 226500 **FISCH Measuring Rod**, marker pins at 3, 4 and 5 mm, length 16 cm
- 226501 **FISCH Measuring Rod**, curved, marker pins at 3, 4 and 5 mm, length 16 cm
- 226502 **Measuring Rod**, for stapes prosthesis, straight, marker pins at 3.5, 4 and 4.5 mm, length 17 cm
- 226504 **FISCH Caliper**, diameter 0.4 mm, marker pin at 10 mm, length 16 cm
- 226506 **Same**, diameter 0.6 mm
- 226510 **PLESTER Depth Gauge**, with ball tip, marker pin at 5 mm, length 16 cm
- 226514 **FISCH Caliper**, angled shaft, diameter 0.4 mm, marker pin at 10 mm, length 16 cm
- 226516 **Same**, diameter 0.6 mm
- 226540 **HOUSE Caliper Strut**, for 4 mm distance, marker pin at 4 mm, length 16 cm
- 226545 **Same**, for 4.5 mm distance, marker pin at 4.5 mm
- 226550 **Same**, for 5 mm distance, marker pin at 5 mm



225150 **Protection Tube**, metal, for straight ear micro instruments with octagonal handle, length 6 cm



226600 –
226608

226710 –
226730

226753 –
226761

226810 –
226835

226910 –
226925

226600 **FISCH Manual Perforator**, diameter 0.3 mm, length 16 cm
 226604 **Same**, diameter 0.4 mm
 226605 **Same**, diameter 0.5 mm
 226606 **Same**, diameter 0.6 mm
 226607 **Perforator**, diameter 0.7 mm, length 16 cm
 226608 **Same**, diameter 0.8 mm
 226710 **Round Knife 0°**, straight, diameter 1 mm, length 16 cm
 226715 **Same**, diameter 1.5 mm
 226720 **Same**, diameter 2 mm
 226723 **Same**, diameter 2.3 mm
 226725 **Same**, diameter 2.5 mm
 226730 **Same**, diameter 3 mm
 226753 **Round Knife 25°**, diameter 1 mm, length 16 cm
 226755 **Same**, diameter 1.5 mm
 226757 **Same**, diameter 2 mm
 226759 **Same**, diameter 2.5 mm
 226761 **Same**, diameter 3 mm

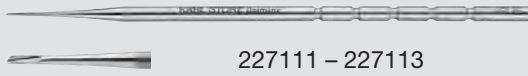
226810 **Round Knife 45°**, diameter 1 mm, length 16 cm
 226815 **Same**, diameter 1.5 mm
 226820 **Same**, diameter 2 mm
 226823 **Same**, diameter 2.3 mm
 226825 **Same**, diameter 2.5 mm
 226830 **Same**, diameter 3 mm
 226835 **Same**, diameter 3.5 mm
 226910 **Round Knife 90°**, diameter 1 mm, length 16 cm
 226915 **Same**, diameter 1.5 mm
 226920 **Same**, diameter 2 mm
 226923 **Same**, diameter 2.3 mm
 226925 **Same**, diameter 2.5 mm



227100



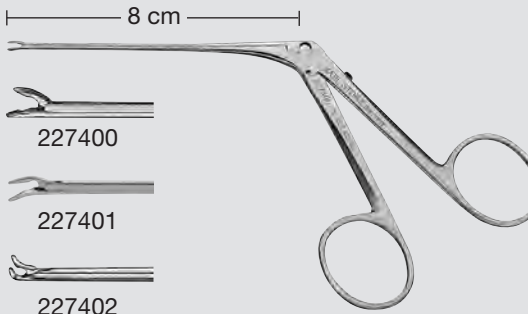
227011 – 227014



227111 – 227113



227015



227400

227401

227402

227403

- 227100 HEERMANN **Mallet**, for 227011 – 227014 and 227111 – 227113, length 22 cm
- 227015 HEERMANN **Handle**, for use with instruments 227011 – 227014 and 227111 – 227113
- 227011 **Micro Gouge**, width 0.6 mm, for use with Handle 227015
- 227012 **Same**, width 1.5 mm
- 227013 **Same**, width 3 mm
- 227014 **Same**, width 3.5 mm
- 227111 SCHIMANSKI **Micro-Gouge**, width 0.6 mm, for use with Handle 227015
- 227112 **Same**, width 1.5 mm
- 227113 **Same**, width 3 mm
- 227400 McGEE **Wire Crimper**, straight, working length 8 cm
- 227401 FISCH-McGEE **Wire Crimper**, straight, working length 8 cm
- 227402 **Same**, curved to right
- 227403 **Same**, curved to left



227600



227800



227900



227920

- 227600 GUILFORD-WRIGHT **Wire Cutter**,
serrated, length 10 cm
- 227800 SCHUKNECHT **Wire Bending Die**
- 227900 SHEA **Vein Press**, diameter 16 mm, length 13 cm
- 227920 **Vein Press**, LÜBECK model, diameter 38 mm



231000



231008



231009



231010



231011

- 231000 **Hone**, “ARKANSAS” oil stone, wedge-shaped, 10 x 4 cm

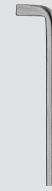
- 231008 **Preparation Plate**, glass, 10 x 8 cm
- 231009 **FISCH Glass Cutting Board**, with square millimeter gradations (25 x 20 mm), 10 x 8 cm

- 231010 **Cutting Block**, plastic, white, 8 x 4 x 1 cm
- 231011 **Cutting Block**, Teflon, with grip plate, 20 x 15 x 1 cm

MAGNAN Ear Micro Instruments



223994



223980



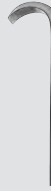
223990



223982



223992

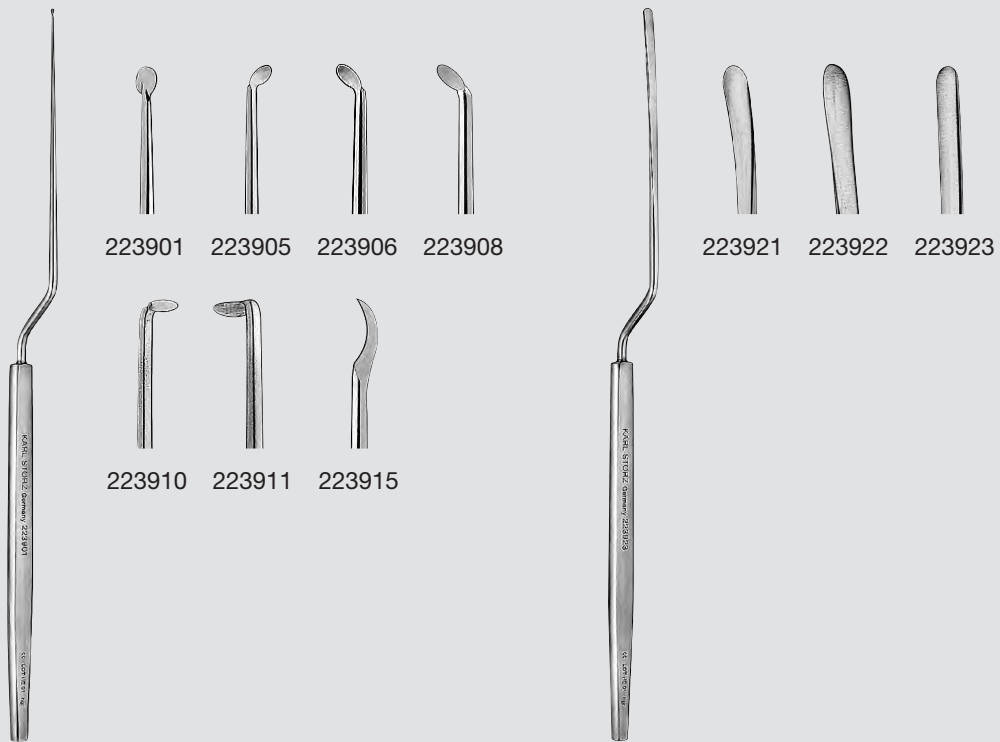


223984



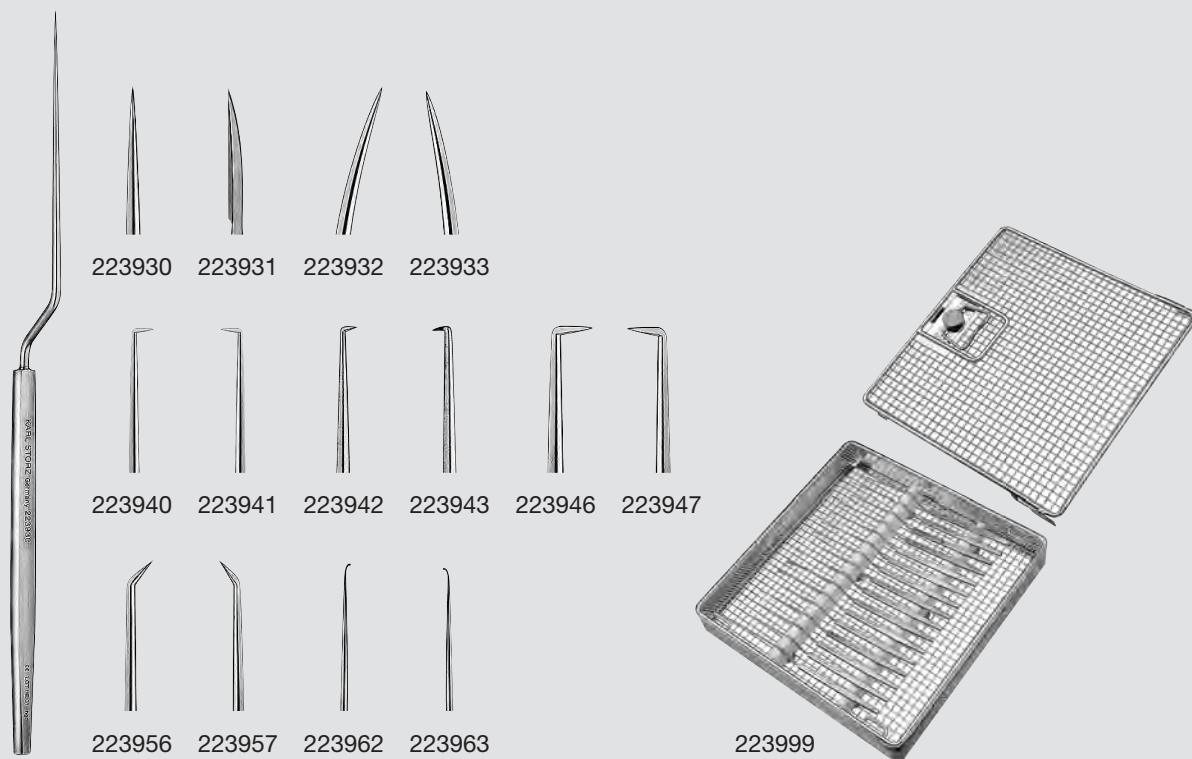
223994

- 223980 MAGNAN **Raspatory**, bayonet-shaped, angled downwards 90°, width 1.2 mm, length 20 cm
- 223990 **Same**, angled upwards 90°
- 223982 MAGNAN **Raspatory**, bayonet-shaped, S-shaped tip angled downwards, width 2 mm, length 20 cm
- 223992 **Same**, S-shaped tip angled upwards
- 223984 MAGNAN **Raspatory**, bayonet-shaped, round tip angled downwards, width 2 mm, length 20 cm
- 223994 **Same**, round tip curved upwards



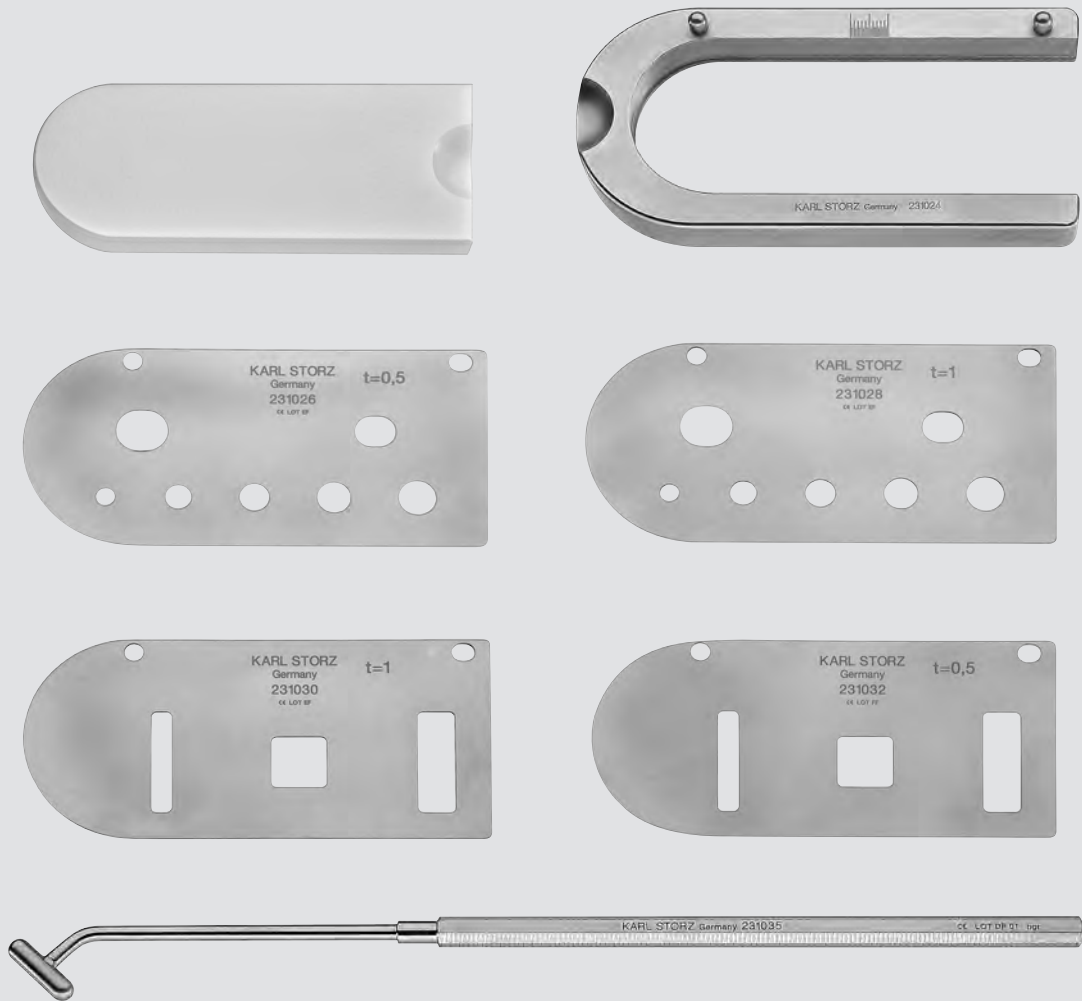
- 223901 **Round Knife 0°**, bayonet-shaped, straight, diameter 1.5 mm, length 18 cm
- 223905 **Round Knife 45°**, bayonet-shaped, curved upwards, diameter 1.5 mm, length 18 cm
- 223906 **Same**, curved downwards
- 223908 **Round Knife 45°**, bayonet-shaped, curved downwards, diameter 2.3 mm, length 18 cm
- 223910 **Round Knife 90°**, bayonet-shaped, curved upwards, diameter 1.5 mm, length 18 cm
- 223911 **Same**, curved downwards
- 223915 **Tenotome**, bayonet-shaped, sickle knife curved downwards, extra fine, length 18 cm
- 223921 **Elevator**, bayonet-shaped, curved downwards, sharp, width 4 mm, length 18 cm
- 223922 **Same**, width 2 mm
- 223923 **Elevator**, bayonet-shaped, slightly curved downwards, blunt, width 3 mm, length 18 cm

Ear



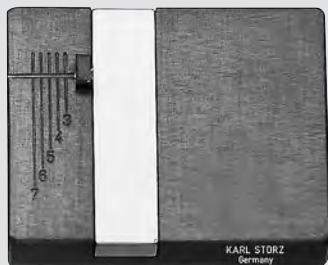
- 223930 **Needle**, bayonet-shaped, straight, length 18 cm
- 223931 **Knife**, footplate, bayonet-shaped, length 18 cm
- 223932 **Needle**, bayonet-shaped, curved upwards, strong long curve, length 18 cm
- 223933 **Same**, curved downwards
- 223940 **Pick 90°**, bayonet-shaped, curved upwards, 0.5 mm, length 18.5 cm
- 223941 **Same**, curved downwards
- 223942 **Pick, 90°**, bayonet-shaped, curved upwards, 1 mm, length 18 cm
- 223943 **Same**, curved downwards
- 223946 **Pick, 90°**, bayonet-shaped, curved upwards, 2 mm, length 18 cm
- 223947 **Same**, curved downwards
- 223956 **Pick, 45°**, bayonet-shaped, curved upwards, 2 mm, length 18 cm
- 223957 **Same**, curved downwards
- 223962 **Hook**, footplate, bayonet-shaped, curved upwards, 0,2 mm, length 18 cm
- 223963 **Same**, curved downwards
- 223999 **Metal Tray**, for sterilizing and storage of ear instruments, perforated, bottom part with holder for 16 bayonet-shaped ear micro-instruments, lid with silicone bridges, external dimensions (w x h x d): 250 x 240 x 40 mm

Please note: The instruments displayed are not included in the metal tray.

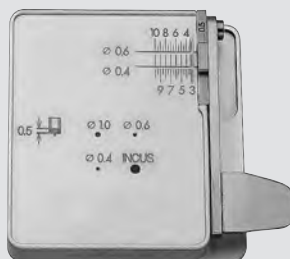


- 231020 MILEWSKI **Cartilage Cutting Block**, with 4 exchangeable templates including:
- Cutting Block**, plastic, white, **autoclavable**, size 120 x 45 x 15 mm
 - Frame**, metal, U-shaped, with 2 pins to hold the templates
 - Template for Ear Cartilage**, with 5 round holes 5, 7, 8, 9 and 10 mm diameter and 2 oval holes 9 x 11 mm and 12 x 14 mm, thickness 0.5 mm
 - Same**, thickness 1 mm
 - Template for Nasal Cartilage**, with 3 rectangular holes 5.5 x 30 mm, 15 x 15 mm and 10 x 30 mm, thickness 1 mm
 - Same**, thickness 0.5 mm
 - Stamp**, cylindrical, with handle, to press the cartilage on the cutting block

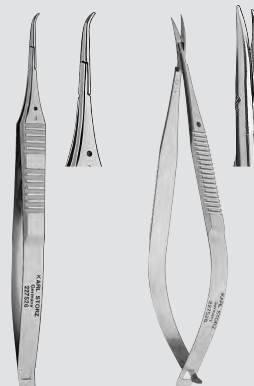
Components/Spare Parts see chapter 16



227504
227506



227525



227526

227528



227527



227530



227532

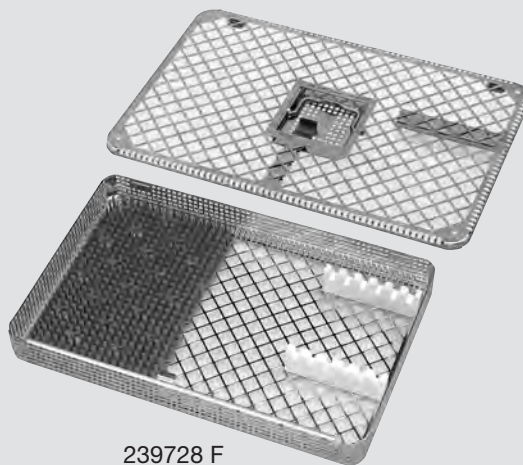


227534

- 227504 **FISCH Cutting Block**, for cutting and preparing stapes prostheses of diameter 0.4 mm
- 227506 **Same**, for prostheses of diameter 0.6 mm
- 227525 **FISCH Cutting Block**
- 227526 **Holding Forceps**, for holding FISCH stapes and total prostheses, length 13.5 cm
- 227527 **Crimp Forceps**, for FISCH total prostheses, length 10.5 cm
- 227528 **Scissors**, for FISCH total prostheses, length 11 cm
- 227530 **Incus Holding Clamp**, length 11 cm
- 227532 **FISCH Micro Hook**, 2.5 mm, 45°, length 16 cm, for insertion and placement of FISCH incus prosthesis
- 227534 **Diamond Straight Shaft Burr**, diameter 1.4 mm, length 7 cm

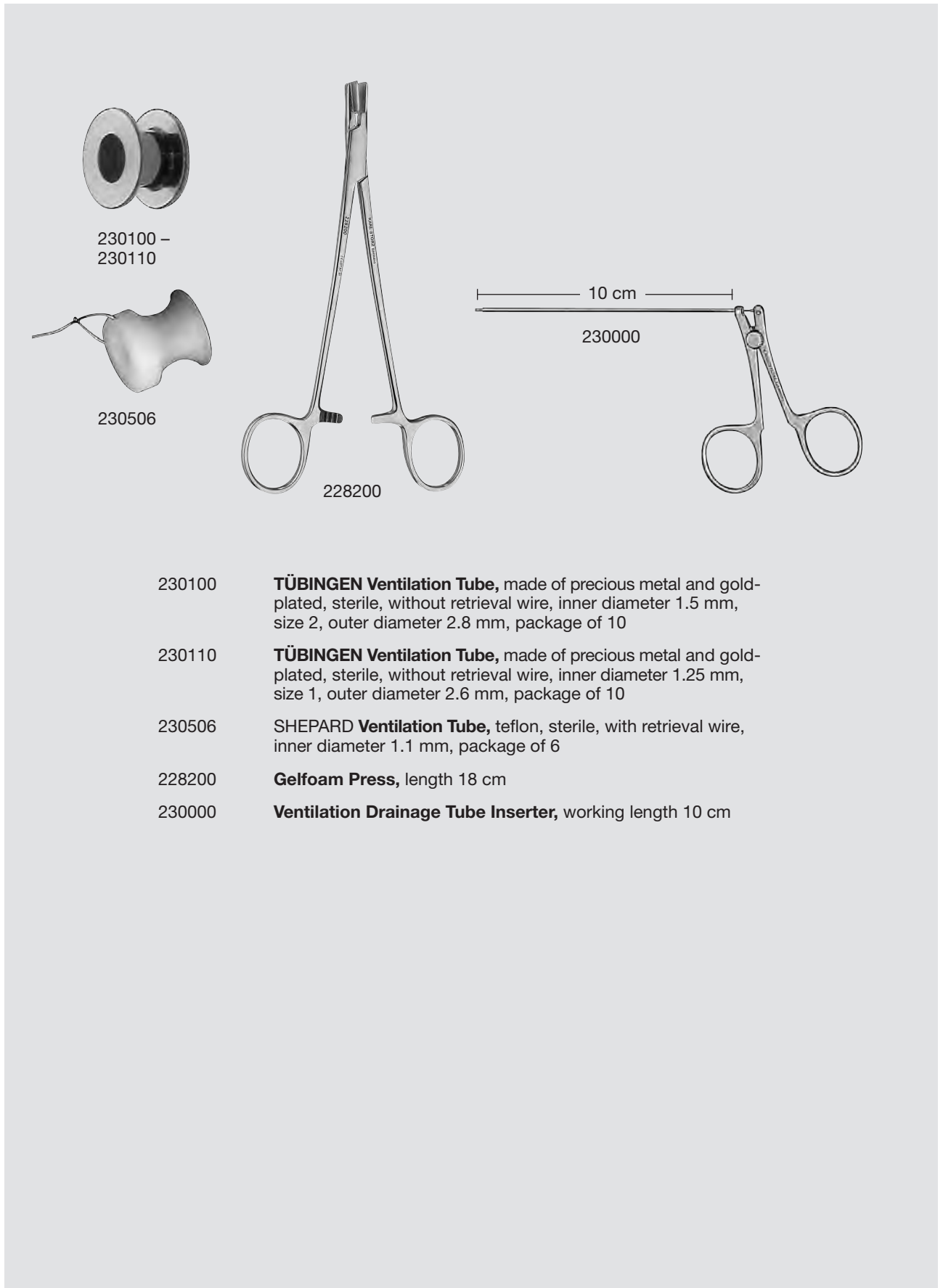


- 227510 FISCH **Titanium Stapes Piston**, short size, sterile, short distance between loop and cylinder, 7 mm x diameter 0.4 mm
- 227511 FISCH **Titanium Stapes Piston**, normal size, sterile, medium distance between loop and cylinder, 8.5 mm x diameter 0.4 mm
- 227512 FISCH **Titanium Stapes Piston**, long size, sterile, long distance between loop and cylinder, 10 mm x diameter 0.4 mm
- 227515 FISCH **Titanium Incus Prosthesis**, normal size, sterile, 3 mm x diameter 2 / 1.3 mm
- 227516 FISCH **Titanium Incus Prosthesis**, long size, sterile, 4 mm x diameter 2 / 1.3 mm
- 227517 FISCH **Titanium Incus Prosthesis**, extra long size, sterile, 5 mm x diameter 2 / 1.3 mm
- 227520 FISCH **Titanium Total Prosthesis with foot**, sterile, 10 mm x diameter 0.6 mm
- 227522 FISCH **Titanium Neomalleus Prosthesis**, sterile, 5 mm x diameter 1.1 mm



- 239728 F **Metal Tray**, for sterilization and storage of instruments, perforated, base with holder and silicone mat, lid with silicone bridges and handle, external dimensions (w x d x h) 275 x 178 x 36 mm including:
 - Base with Lid**, with holders and silicone bridges
 - Silicone Mat**

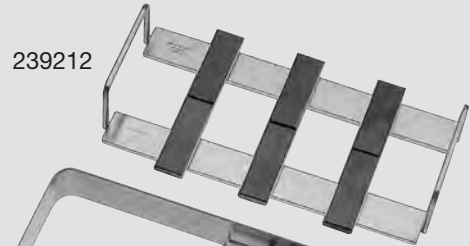
Components/Spare Parts see chapter 16



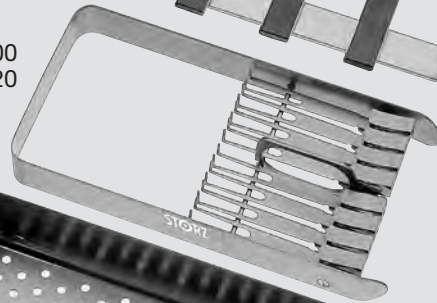
- 230100 **TÜBINGEN Ventilation Tube**, made of precious metal and gold-plated, sterile, without retrieval wire, inner diameter 1.5 mm, size 2, outer diameter 2.8 mm, package of 10
- 230110 **TÜBINGEN Ventilation Tube**, made of precious metal and gold-plated, sterile, without retrieval wire, inner diameter 1.25 mm, size 1, outer diameter 2.6 mm, package of 10
- 230506 **SHEPARD Ventilation Tube**, teflon, sterile, with retrieval wire, inner diameter 1.1 mm, package of 6
- 228200 **Gelfoam Press**, length 18 cm
- 230000 **Ventilation Drainage Tube Inserter**, working length 10 cm



239000
239075



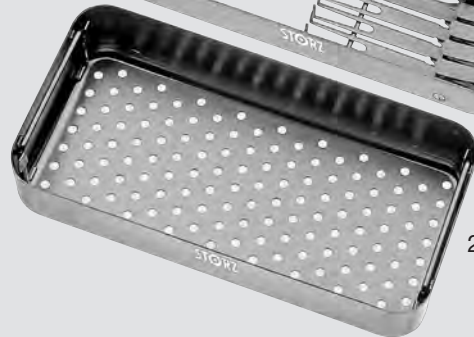
239212



239600
239620



239020



239900

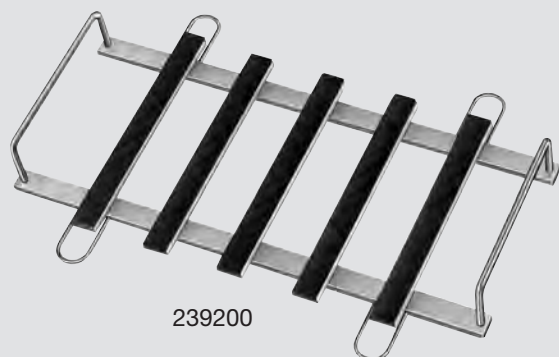
- 239000 **Metal Case**, perforated, with detachable lid, external dimensions (w x d x h): 300 x 200 x 50 mm
- 239075 **Same**, 300 x 200 x 75 mm
- 239020 **Metal Case**, perforated, with detachable lid, external dimensions (w x d x h): 200 x 100 x 40 mm
- 239600 **Instrument Rack**, for 8 instruments, size 195 x 100 mm
- 239620 **Instrument Rack**, for 5 instruments, size 195 x 100 mm, with holder for ear specula, for ventilation tube set, may be used with Metal Case 239020
- 239900 **Instrument Tray**, perforated, size 195 x 100 mm

Please note:

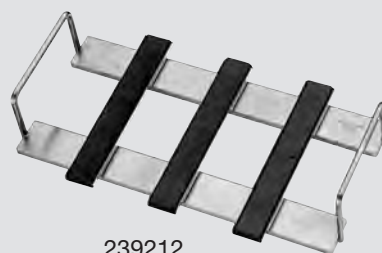
Items 239212 – 239900 can be used with Metal Case 239000.

Please note: Metal Cases are not suitable for sterile storage.

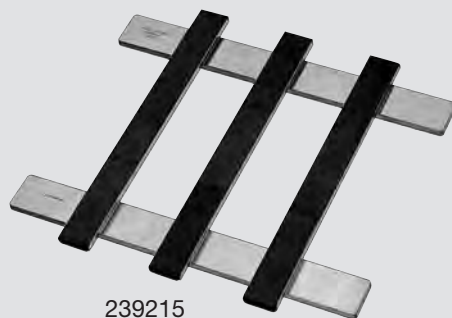
Components/Spare Parts see chapter 16



239200



239212



239215

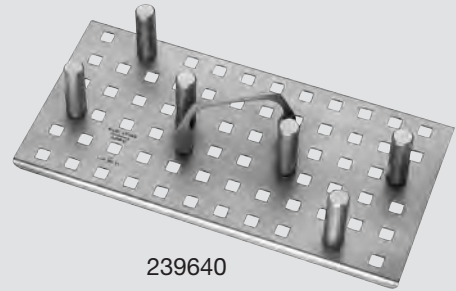
- 239200 **Magnetic Instrument Rack**, with 2 handles and 5 magnetic stripes, size 280 x 190 mm, may be used with Metal Case 239000 or 239075

- 239212 **Magnetic Instrument Rack**, with 2 handles and 3 magnetic stripes, size 180 x 95 mm, may be used with Metal Case 239000 or 239075

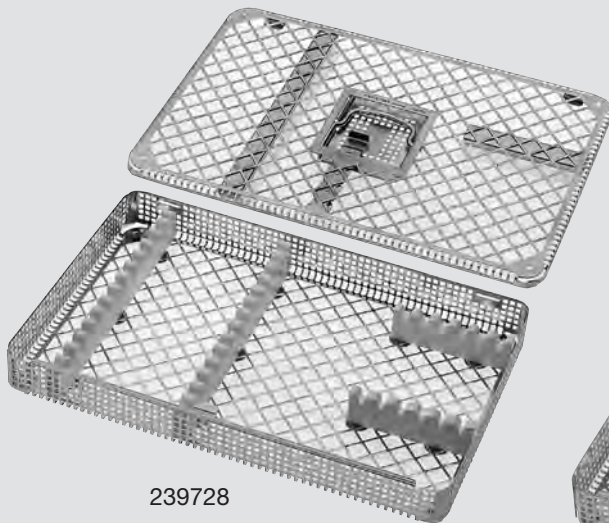
- 239215 **Magnetic Instrument Rack**, without handles, with 3 magnetic stripes, size 170 x 150 mm, may be used with Metal Case 239000 or 239075



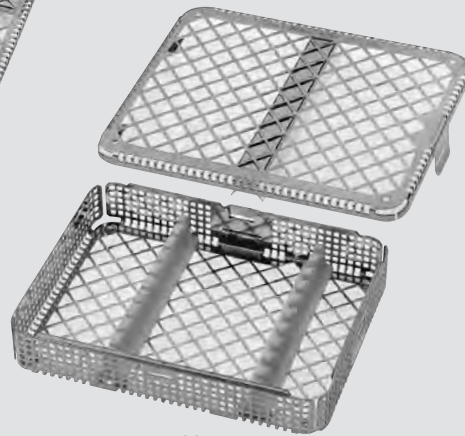
39780 A



239640



239728



239728 H

39780 A **MiniSet Container**, with MicroStop®, for sterilization and sterile storage, external dimensions (w x d x h): 310 x 189 x 65 mm, internal dimensions (w x d x h): 283 x 177 x 40 mm

including:

Base

Lid

Microbiological Barrier, with MicroStop®

39781 A **Same**, external dimensions (w x d x h): 310 x 189 x 80 mm, internal dimensions (w x d x h): 283 x 177 x 60 mm

239640 **Rack**, for approx. 8 micro ear forceps with ring handle, size 195 x 100 mm

239728 **Metal Tray**, for sterilization and storage of ear instruments, perforated, base with holder for 20 straight ear micro instruments with octagonal handle, lid with silicone bridges, external dimensions (w x d x h): 275 x 175 x 36 mm

239728 H **Same**, base with holder for 10 straight ear micro instruments with octagonal Handle type 223300, external dimensions (w x d x h): 178 x 135 x 37 mm

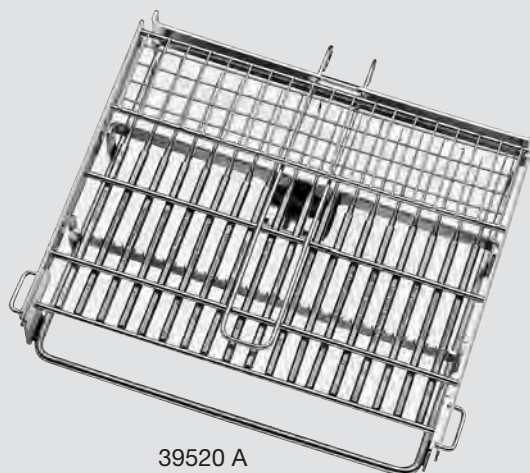
Components/Spare Parts see chapter 16

Further accessories for MiniSet Containers see catalog HYGIENE



39520 AK

39520 AK **Rack**, provides safe storage of up to 6 KARL STORZ octagonal ear micro surgery instruments during cleaning and sterilization, with special guard for the instrument tips, for easy instrument assistance, with detachable lid, external dimensions (w x d x h): 95 x 215 x 40 mm



39520 A

39520 A **Rack**, provides safe storage of up to 18 KARL STORZ octagonal ear micro surgery instruments during cleaning and sterilization, with special guard for the instrument tips, for easy instrument assistance during surgery, with detachable lid, external dimensions (w x d x h): 230 x 200 x 40 mm (compatible with standard trays)

Cochlea implantation is carried out under general anesthetic. Following an incision behind the auricle, formation of the skin flap in the subcutaneous fascia and placement of the scalp clips, a periosteal flap is cut around the auditory meatus with an expansion of 1.5 cm x 1.5 cm, forming a periosteal pocket for insertion of the implant. This is done with a Plester raspatory (position 32). Using rose-head and diamond drill bits, the mastoidectomy is positioned as such that the cortical bone above, behind and below remains in order to support the electrode. A clear view of the sigmoid sinus, the sinus dura mater angle, the bone plate in the direction of the central cranial bone, the mastoid cavity with the incus, the horizontal kinetic labyrinth, the posterior wall of the auditory meatus, as well as the outline of the canal for the facial nerve in the mastoid is achieved. The cells on the posterior wall of the auditory meatus need to be completely drilled away so that only the cortical layer remains. A bone bed is created 1 cm behind the mastoid. When doing so, the projection of the electrode outlet is directed towards the sinus dura mater angle.

To facilitate drilling, the periosteal skin flap is lifted with the aid of a special suction hook (position 26). Various rose-head and diamond drill bits are used to drill the bone bed. The size of the bone bed can be determined with the aid of a drilling guide. The size is dependent on the type of implant being used. For a nucleus implant only the electronic part of the implant is inset in the bone, whereas the antenna part is positioned in the direction of the occiput under the periost. The formation of the bone bed is considerably simplified by using a diamond drill (position 14). This enables a smooth bone edge to be achieved without damage to the dura mater. The connection of the bone bed to the mastoid is established either via a bone canal or a bone tunnel. Exact projection focused on the sinus dura mater angle virtually excludes any possibility of damage to the sigmoid sinus or the dura mater. The diameter should be slightly larger than the diameter of the cochlea implant electrode.

Then the construction of the posterior tympanotomy is carried out with the assistance of the microscope. Landmarks for this procedure are the position of the horizontal and the so-called digastric bridge which indicates the preceding arch of the beginning of the digastric muscle at the tip of the mastoid. If a line is drawn between the incudostapedial joint and the digastric bridge, the canal for the facial nerve is in a medial position from the line. Then a diamond drill bit, size 2.35 mm is used to carefully drill out the bone lateral to the canal for the facial nerve along the posterior auditory meatus in the direction of the middle ear. In doing so, the bridge remains in place. With careful drilling the chorda tympani becomes visible. By

changing to a diamond drill bit with a narrow shaft and a diameter of 1.4 mm (position 17), the posterior tympanotomy can be completed. By utilizing the entire space between the bone encased facial nerve of the chorda tympani and the bridge a sufficient view into the tympanum is achieved where, the incudostapedial joint, the tendons of the stapedial muscle, the promontory of the tympanic cavity and the round window niche can be identified.

Using the same polished drill bit with a diameter of 1.4 mm (position 17) the cochleostomy is now created. First of all the bone lip over the round window is drilled from the cauda to the cranium until the membrane becomes visible. Then the drill is used to prepare the cochleostomy in front of the round window and slightly below its upper end. The promontory bone is thinned until the endosteum becomes visible. The drilling is carried out with continuous irrigation. Using the smaller diamond drill of 1.0 mm (position 16) the surrounding bone is then removed until a diameter of approx. 1.5 mm is achieved. When the endosteum has been sufficiently exposed, it is carved with the aid of a curved needle and then folded to the side. One then has a view of the scala tympani, as well as the basilar membrane on their upper anterior border. Care has to be taken to protect this membrane. If necessary, using this drill or the drill of 0.6 mm (position 15) the cochleostomy can be expanded. Its diameter should be drilled to a maximum of 1.5 mm. The size can be determined with the aid of the hook probe (position 18). Small bone edges can be smoothed with the right angle hooks (position 24 and 25). The bone dust is rinsed out with the aid of a thin suction tube using Ringer's irrigation solution. Then healon is carefully installed in the scala tympani as a lubricant. While doing so, intracochlea increases in pressure are to be avoided.

The implant is then placed in the created bone bed. The SCHÖNBORN thyroid hook (position 27) is used to lift the periost and, subsequently, the electrode cable is introduced into the canal or tunnel which has been prepared and guided in the direction of the mastoid. The electronic model can then be fixed into place in the implant bed with the aid of the taut periosteal pocket. Additional suture fixation is not necessary.

The temporal muscle described in the posterior part is then detached. By introducing the Plester raspatory (position 32) the reference electrode can be grasped with an anatomical forceps and pushed under the muscle. The stimulating electrode is then grasped with an introduction forceps for cochlea transplant electrodes (position 20 and 21) and the tip is rotated as such that when being introduced into the cochlea tract it points from the basilar membrane towards the modiolus. The electrode can then be pushed through

LENARZ Additional Instruments for Cochlear Implantation Operations

the cochlea gradually with the aid of the forceps and an anatomical forceps. The fine positioning is achieved using a micro guide instrument which is claw-shaped with a tip which is curved upwards or downwards (position 22 and 23). The stylet can subsequently be removed from the electrode.

In the latest version of electrode development the so-called “advanced off stylet technique” is used during the introduction of the electrode. With this technique, after the electrode has been advanced to the marking on the stylet ball it is held in place with the aid of a forceps and then the electrode is advanced further into the cochlea with the aid of an introduction forceps. When it has been completely introduced up to the balloon-shaped enlargement on the shaft of the electrode the electrode is held in place and the stylet is completely removed.

The cochleostomy is closed using small pieces of connective tissue or muscle which are positioned carefully around the electrode. The electrode carrier is stabilized in the drilled mastoid in an S shape using the cortical lip (Fig. 13). In children this has to take the growth process of the cranium into account.

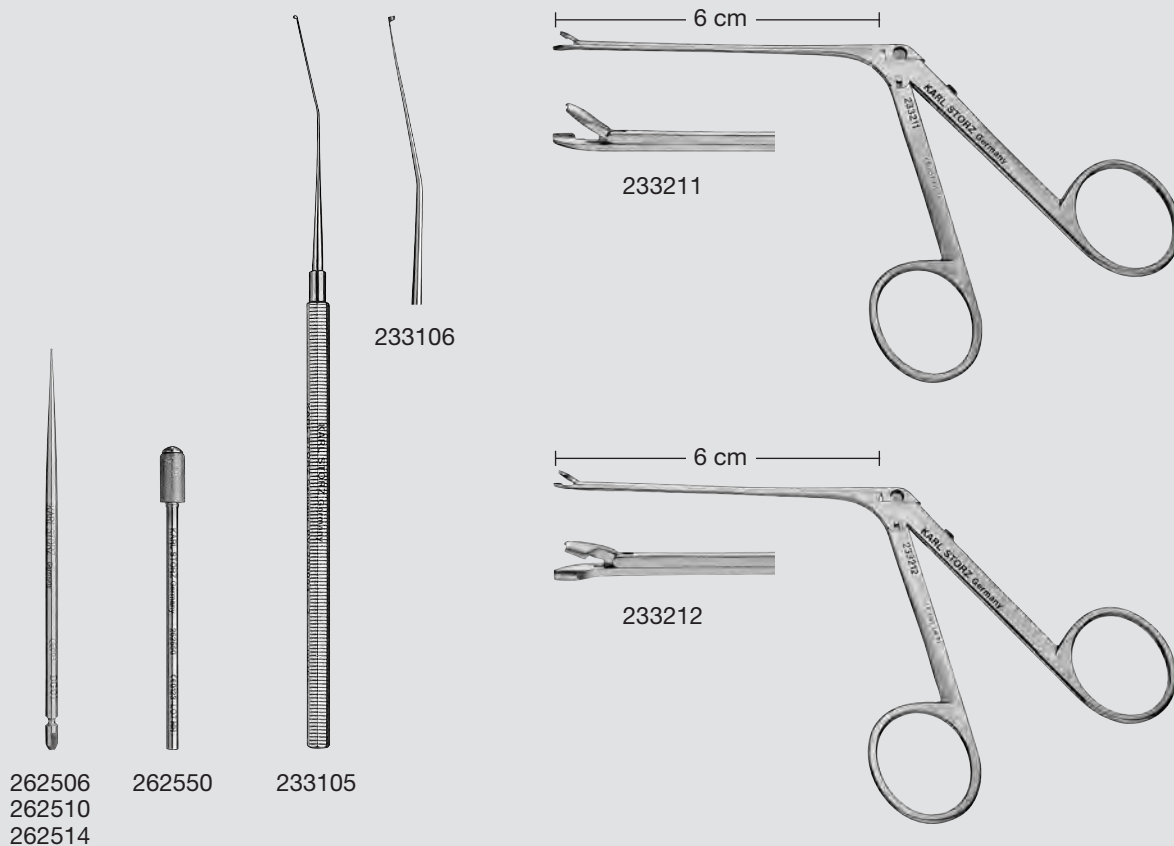
After carrying out the intraoperative electrophysiological measurements (impedance tests on the electrode, reflex thresholds of the stapedius and neural response telemetry) the wound is closed gradually, with the aid of a skin plaster if necessary.

To ensure that the procedure is as atraumatic as possible, it is essential that instruments of the correct size are used, in particular the drill bits and the suction tubes. As one gets closer to the cochlea it becomes increasingly important to use small lumen suction devices and small drill bits. The hand should be well supported at all times. It is essential that drilling is carried out with irrigation in order to prevent overheating of the tissue and, above all, to prevent the development of drilling dust in the cochlea. When introducing the electrode care needs to be taken that it is not squeezed too tightly by the forceps because this could result in damage to the thin electrode wires or the stylet. The specially designed forceps enable the electrode to be grasped securely and guided precisely without compressing the electrode.

*Prof. Dr. Th. LENARZ,
Medizinische Hochschule Hannover,
Klinik und Poliklinik für Hals-Nasen-Ohrenheilkunde,
Hannover, Germany*

Micro Instruments for Cochlear Implantation Operations

Set recommended by Prof. LENARZ



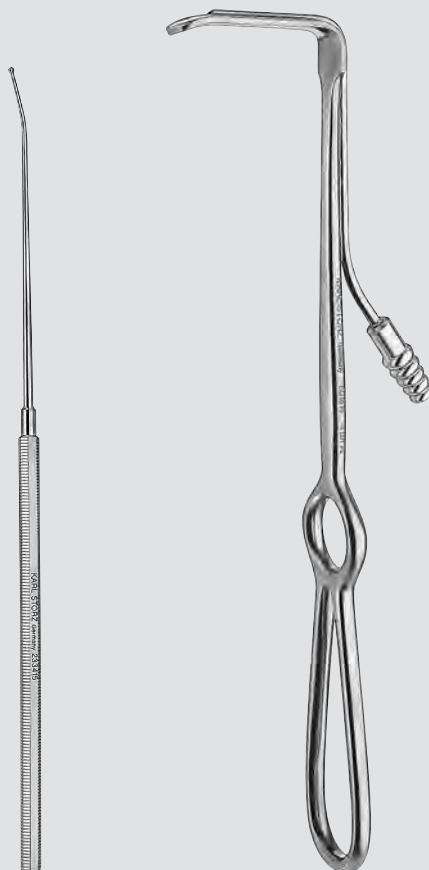
- 262506 **Diamond Burr**, shaft diameter 2.35 mm, diameter 0.6 mm, length 70 mm
- 262510 **Same**, diameter 1 mm
- 262514 **Same**, diameter 1.4 mm

- 262550 **Diamond Burr**, barrel-shaped, diameter 5 mm, length 10 mm, for creating a flat bone edge during cochlea implantation surgery, blunt tip for protection of the dura, with smooth shaft diameter 2.35 mm, length 44 mm

- 233105 **Micro Guiding Instrument**, for electrodes array, claw-shaped, tip angled downwards, length 16 cm
- 233106 **Same**, tip angled upwards

- 233211 **Forceps**, for insertion of cochlea electrodes, nucleus 24 contour, curved to right, working length 6 cm
- 233212 **Same**, curved to left

Micro Instruments for Cochlear Implantation Operations



233415

801814

233415 **Seeker**, angled 15°, with ball end, diameter 1.3 mm, length 18 cm

801814 **LENARZ Retractor**, 43 x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm

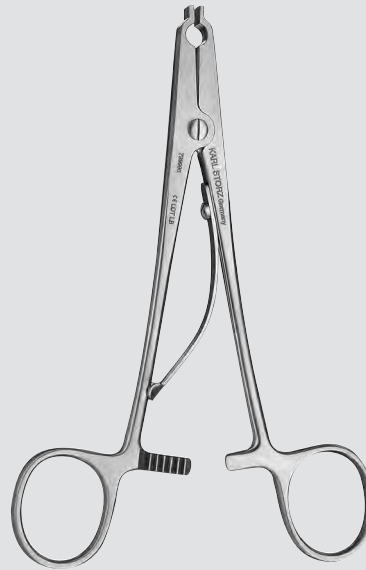
Additional Instruments for Cochlear Implantation Operations



233250



801815



799990



799995

- 233250 **DALCHOW-O'DONOGHUE Retractor**,
for cochlea implant operations
including:
Retractor, with ergonomic handle, cold light illumination,
suction channel with cut-off hole, LUER, concave blade,
20 x 30 mm, length 19.5 cm
Fiber Optic Light Carrier, with suction tube, length 18.5 cm
- 801815 **ISSING Retractor**, 43 x 11 mm, slim and flat blade
with integrated suction tube, length 21.5 cm
- 799990 **RANEY Applying and Removing Forceps**,
for scalp haemostasis clips, length 16 cm
- 799995 **RANEY Scalp Haemostasis Clips**, package of 12

Components/Spare Parts see chapter 16



■ MOTOR SYSTEMS

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO

High-Performance EC Micro Motor II

High-Speed Micro Motors

INTRA Drill Handpieces

Burrs

Micro Sagittal Saw, Osseo Scalpel

Dermatomes

High-Speed Handpieces

High-Speed Burrs

Motor Systems

Special Features

UNIDRIVE® S III ENT SCB/UNIDRIVE® S III ECO

The multifunctional unit for ENT



UNIDRIVE® S III ENT SCB



UNIDRIVE® S III ECO

Special Features:

| | UNIDRIVE® S III ENT SCB | UNIDRIVE® S III ECO |
|--|----------------------------|------------------------|
| Touch Screen: Function selection via touch screen | ● | - |
| Set values of the last session are stored | ● | ● |
| Choice of user languages | ● | - |
| Color display | ● | - |
| One unit – multifunctional: | | |
| – Shaver system for surgery of the paranasal sinuses and anterior skull base | } | ● |
| – INTRA Drill Handpieces (40,000 rpm and 80,000 rpm) | | |
| – Sinus Shaver | | |
| – Micro Saws | | |
| – STAMMBERGER-SACHSE Intranasal Drill | | |
| – Dermatome | } | ● |
| – High-Speed Handpieces (60,000 rpm and 100,000 rpm) | | |
| Two motor outputs: Two motor outputs enable simultaneous connection of two motors: For example, a shaver and micro motor | ● | ● |
| Soft start function | ● | - |
| Formulated error messages | ● | - |
| Integrated irrigation and coolant pump: | | |
| – Micro-processor controlled irrigation rate | ● | ● |
| – Quick and easy connection of the tubing set | ● | ● |
| Program selection via automated motor recognition | ● | ● |
| Continuously variable revolution range | ● | ● |
| Maximum number of revolutions and motor torque: Microprocessor-controlled revolutions per minute. Therefore the preselected parameters are maintained all the time during drilling. | ● | ● |
| Maximum number of revolutions can be preset | ● | ● |
| With connection possibilities to the KARL STORZ Communication Bus (KARL STORZ-SCB) | ● | - |
| Irrigator rod included | ● | - |

System specifications

| Mode | | Order No. | rpm |
|--|--|----------------------------------|----------------|
| Shaver mode Operation mode: Max. rev. (rpm): | oscillating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece | 40 7120 50 | 10,000 |
| | DrillCut-X® II N Shaver Handpiece | 40 7120 55 | 10,000 |
| Sinus burr mode Operation mode: Max. rev. (rpm): | rotating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece | 40 7120 50 | 12,000 |
| | DrillCut-X® II N Shaver Handpiece | 40 7120 55 | 12,000 |
| High-speed drilling mode Operation mode: Max. rev. (rpm): | counterclockwise or clockwise in conjunction with: High-Speed Micro Motor | 20 7120 33 | 60,000/100,000 |
| Drilling mode Operation mode: Max. rev. (rpm): | counterclockwise or clockwise in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 40,000/80,000 |
| Micro saw mode Max. rev. (rpm): | in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 15,000/20,000 |
| Intranasal drill mode Max. rev. (rpm): | in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 60,000 |
| Dermatome mode Max. rev. (rpm): | in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 8,000 |
| Power supply: | 100 – 240 VAC, 50/60 Hz | | |
| Dimensions: (w x h x d) | 300 x 165 x 265 mm | | |
| Two outputs for parallel connection of two motors | | | |
| Integrated irrigation pump: | | | |
| Flow: | adjustable in 9 steps | | |

| | UNIDRIVE® S III ENT SCB | UNIDRIVE® S III ECO |
|-----------------------------|--|---------------------|
| Touch Screen: | 6.4" / 300 cd/m ² | |
| Weight: | 5.2 kg | 4.7 kg |
| Certified to: | IEC 601-1 CE acc. to MDD | IEC 60601-1 |
| Available languages: | English, French, German, Spanish, Italian, Portuguese, Greek, Turkish, Polish, Russian | numerical codes |

Motor Systems

Special features of the high-performance EC micro motor II and the high-speed micro motor

Special features of high-performance EC micro motor II:

- Self-cooling, brushless high-performance EC micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Detachable connecting cable
- INTRA coupling
- Maximum torque 4 Ncm
- Number of revolutions can be continuously adjusted up to 40,000 rpm
- Possible to adjust the number of revolutions to 80,000 rpm with the appropriate handle



20 7110 33

20 7110 33 **High-Performance EC Micro Motor II**, for use with UNIDRIVE® II/UNIDRIVE® ENT/OMFS/NEURO/ECO and Connecting Cable 20 7110 73, or for use with UNIDRIVE® S III ENT/ECO/NEURO and Connecting Cable 20 7111 73



20 7111 73 **Connecting Cable**, to connect High-Performance EC Micro Motor 20 7110 33 to UNIDRIVE® S III ENT/ECO/NEURO

Special Features of the high-speed micro motor:

- Brushless high-speed micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Maximum torque 6 Ncm
- Number of revolutions can be continuously adjusted up to 60,000 rpm
- Possible to adjust the number of revolutions to 100,000 rpm with the appropriate handle



20 7120 33

20 7120 33 **High-Speed Micro-Motor**, max. speed 60,000 rpm, including connecting cable, for use with UNIDRIVE® S III ENT/NEURO

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO



40 7016 20-1



40 7014 20

40 7016 01-1 UNIDRIVE® S III ENT SCB, motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and SCB module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Irrigator Rod

Two-Pedal Footswitch, two-stage, with proportional function

Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

SCB Connecting Cable, length 100 cm

Single Use Tubing Set*, sterile, package of 3

40 7014 01 UNIDRIVE® S III ECO, motor control unit with two motor outputs and integrated irrigation pump, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Two-Pedal Footswitch, two-stage, with proportional function

Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

Single Use Tubing Set*, sterile, package of 3

Specifications:

| | | | |
|--------------|---|----------------------|---------------------------|
| Touch Screen | UNIDRIVE® S III ENT SCB: 6,4"/300 cd/m ² | Dimensions w x h x d | 300 x 165 x 265 mm |
| Flow | 9 steps | Weight | 5.2 kg |
| Power supply | 100-240 VAC, 50/60 Hz | Certified to | IEC 601-1, CE acc. to MDD |

*



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO

System Components

Two-Pedal Footswitch



20 0166 30

Silicone Tubing Set



20 7116 40

UNIT SIDE
PATIENT SIDE



High-Speed Micro Motor



20 7120 33

High-performance EC Micro Motor II



20 7110 33
20 7111 73

High-Speed Handpieces



252660 – 252692

INTRA Drill Handpieces



252575 – 252590

Micro Saws



254000 – 254300

Dermatomes



253000 – 253300

Optional Accessories

for UNIDRIVE® S III ENT SCB and UNIDRIVE® S III ECO



280053 **Universal Spray**, 6x 500 ml bottles – HAZARDOUS GOODS – UN 1950
including:
Spray Nozzle

280053 C **Spray Nozzle**, for the reprocessing of INTRA burr handpieces,
for use with Universal Spray 280053 B



031131-10* **Tubing Set**, for irrigation, for single use, sterile,
package of 10



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

INTRA Drill Handpieces

for ear micro surgery

Special Features:

- Tool-free closing and opening of the drill
- Right/left rotation
- Max. rotating speed up to 40,000 or 80,000 rpm
- Detachable irrigation tubes
- Can be processed in a cleaning machine



252570



252573



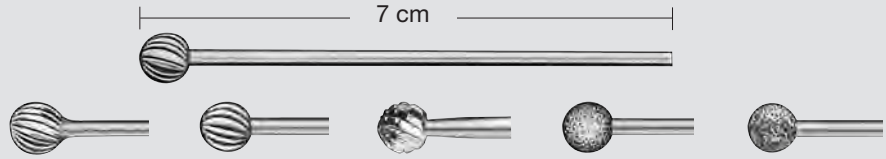
252590



20 7110 33/20 7111 73

- 252570 **INTRA Drill Handpiece**, angled, length 12.5 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs
- 252573 **INTRA Drill Handpiece**, angled, length 12.5 cm, transmission 1:2 (80,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs
- 252590 **INTRA Drill Handpiece**, straight, length 11 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs

**Straight Shaft Burrs, length 7 cm,
for use with INTRA Drill Handpieces 252590, 252570, 252573**

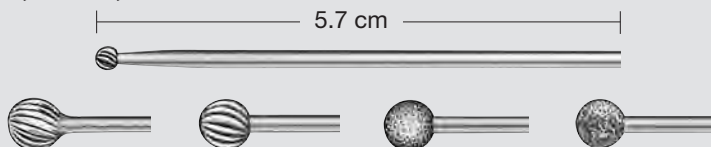


| Detail | Size | Dia. mm | Standard | Tungsten Carbide | Transverse Tungsten Carbide | Diamond | Diamond, coarse |
|--------|------|---------|----------|------------------|-----------------------------|---------|-----------------|
| | 006 | 0.6 | 260006 | 261006 | – | 262006 | – |
| | 007 | 0.7 | 260007 | 261007 | – | 262007 | – |
| | 008 | 0.8 | 260008 | 261008 | – | 262008 | – |
| | 010 | 1 | 260010 | 261010 | – | 262010 | – |
| | 014 | 1.4 | 260014 | 261014 | 261114 | 262014 | – |
| | 018 | 1.8 | 260018 | 261018 | – | 262018 | – |
| | 023 | 2.3 | 260023 | 261023 | 261123 | 262023 | 262223 |
| | 027 | 2.7 | 260027 | 261027 | – | 262027 | 262227 |
| | 031 | 3.1 | 260031 | 261031 | 261131 | 262031 | 262231 |
| | 035 | 3.5 | 260035 | 261035 | – | 262035 | 262235 |
| | 040 | 4 | 260040 | 261040 | 261140 | 262040 | 262240 |
| | 045 | 4.5 | 260045 | 261045 | – | 262045 | 262245 |
| | 050 | 5 | 260050 | 261050 | 261150 | 262050 | 262250 |
| | 060 | 6 | 260060 | 261060 | 261160 | 262060 | 262260 |
| | 070 | 7 | 260070 | 261070 | – | 262070 | 262270 |

- 260000 **Standard Straight Shaft Burr**, stainless, sizes 006 – 070, length 7 cm, set of 15
- 261000 **Tungsten Carbide Straight Shaft Burr**, stainless, sizes 006 – 070, length 7 cm, set of 15
- 261100 **Tungsten Carbide Straight Shaft Burr**, with cross cut, stainless, sizes 014 – 060, length 7 cm, set of 6
- 262000 **Diamond Straight Shaft Burr**, stainless, sizes 006 – 070, length 7 cm, set of 15
- 262200 **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating, sizes 023 – 070, length 7 cm, set of 9, color code: gold

Burrs

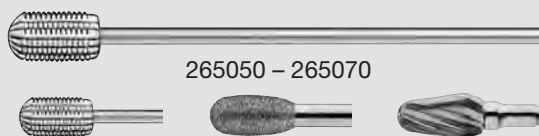
**Straight Shaft Burrs, length 5.7 cm,
for use with INTRA Drill Handpieces 252590, 252570, 252573**



| Detail | Size | Dia. mm | Standard | Tungsten Carbide | Transverse Tungsten Carbide | Diamond | Diamond, coarse |
|--------|------|---------|----------|------------------|-----------------------------|----------|-----------------|
| | 014 | 1.4 | 649614 K | 649614 HK | 649614 Q | 649714 K | – |
| | 018 | 1.8 | 649618 K | 649618 HK | – | 649718 K | – |
| | 023 | 2.3 | 649623 K | 649623 HK | 649623 Q | 649723 K | 649723 GK |
| | 027 | 2.7 | 649627 K | 649627 HK | – | 649727 K | 649727 GK |
| | 031 | 3.1 | 649631 K | 649631 HK | 649631 Q | 649731 K | 649731 GK |
| | 035 | 3.5 | 649635 K | 649635 HK | – | 649735 K | 649735 GK |
| | 040 | 4 | 649640 K | 649640 HK | 649640 Q | 649740 K | 649740 GK |
| | 045 | 4.5 | 649645 K | 649645 HK | – | 649745 K | 649745 GK |
| | 050 | 5 | 649650 K | 649650 HK | 649650 Q | 649750 K | 649750 GK |
| | 060 | 6 | 649660 K | 649660 HK | 649660 Q | 649760 K | 649760 GK |
| | 070 | 7 | 649670 K | 649670 HK | – | 649770 K | 649770 GK |

- 649600 K **Standard Straight Shaft Burr**, stainless, sizes 014 – 070, length 5.7 cm, set of 11
- 649600 HK **Tungsten Carbide Straight Shaft Burr**, stainless, sizes 014 – 070, length 5.7 cm, set of 11
- 649700 K **Diamond Straight Shaft Burr**, stainless, sizes 014 – 070, length 5.7 cm, set of 11
- 649700 GK **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating, sizes 023 – 070, length 5.7 cm, set of 9, color code: gold

**Straight Shaft Burrs,
cylindrical, barrel-shaped,
and bud-shaped**



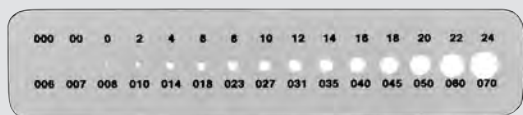
| Size | Dia. mm | cylindrical | barrel-shaped | bud-shaped |
|------|---------|-------------|---------------|------------|
| | | length 7 cm | | |
| 020 | 2 | 262560 | – | – |
| 040 | 4 | – | 262561 | – |
| 050 | 5 | 265050 | – | 263050 |
| 060 | 6 | 265060 | – | 263060 |
| 070 | 7 | 265070 | – | 263070 |

LINDEMANN Burrs, conical, stainless, length 7 cm



| Size | Diameter mm | Conical |
|------|-------------|--------------|
| | | sterilizable |
| 018 | 1.8 | 263518 |
| 021 | 2.1 | 263521 |
| 023 | 2.3 | 263523 |

Burrs Accessories



280090



280080



280120

- 280090 **Size Template**, for drills, stainless steel, sterilizable
- 280080 **Brush**, for cleaning atraumatic jaws, sterilizable, package of 5
- 280120 **Temporal Bone Holder**, bowl-shaped, with 3 fixation screws for tensioning the petrosal bone and with evacuation tube for irrigation liquid

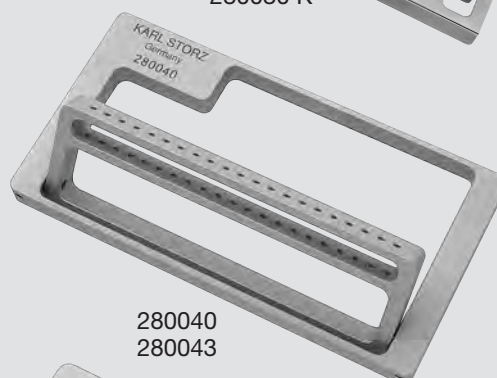
Accessories for Burrs



280030



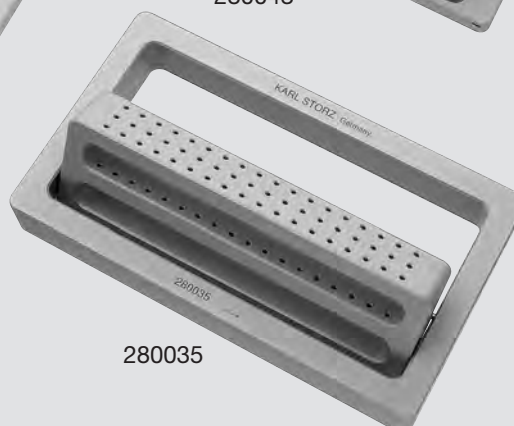
280030 K



280040
280043



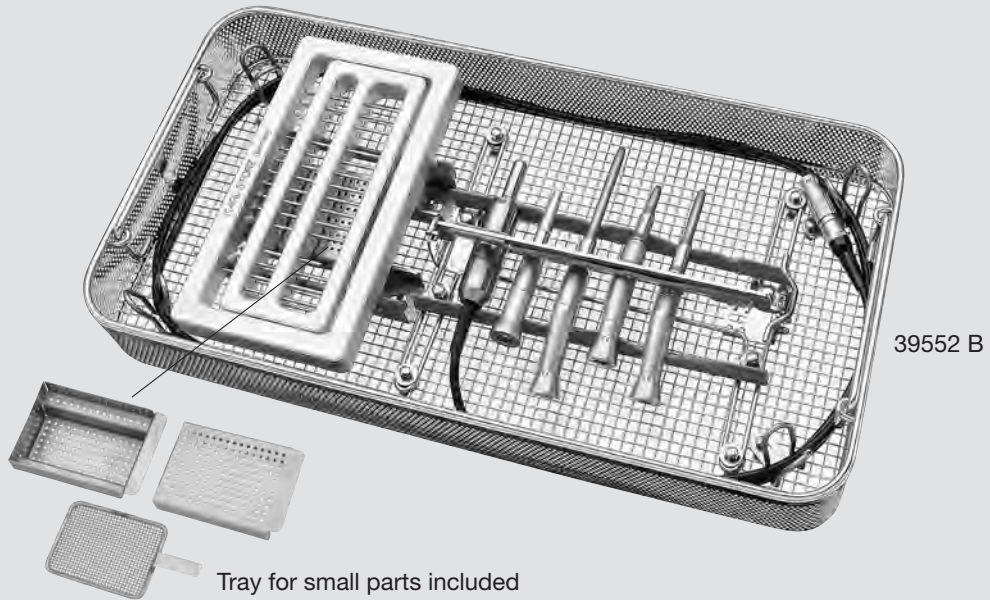
280033
280034



280035

- 280030 **Rack**, for 36 straight shaft burrs with a length of 7 cm, foldable, sterilizable, size 22 x 11.5 x 2 cm
- 280030 K **Metal Bar**, for fixation at Rack 280030, to hold 18 burrs with a length of 7 cm and 16 burrs with a length of 5.7 cm, size 16 x 2.5 x 1 cm
- 280033 **Rack**, for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm
- 280034 **Rack**, for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm
- 280035 **Rack**, for 54 straight shaft burrs with a length of 5 cm (36 pcs) and 7 cm (18 pcs), foldable, sterilizable, size 22 x 12.5 x 3 cm
- 280040 **Rack**, flat model, to hold 21 straight shaft burrs with a length of up to 6 cm (6 pcs) and 7 cm (15 pcs), folding model, sterilizable, size 17.5 x 9.5 x 1.2 cm
- 280043 **Rack**, flat model, to hold 21 straight shaft burrs with a length of 7 cm (6 pcs) and 9.5 cm (15 pcs), folding model, sterilizable, size 17.5 x 11.5 x 1.2 cm

Please note: The burrs displayed are not included in the rack.



39552 A **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **not** included

for storage of:

- Up to 6 drill handpieces
- Connecting cable
- EC micro motor
- Small parts

39552 B **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **included**

for storage of:

- Up to 6 drill handpieces
- Connecting cable
- EC micro motor
- Up to 36 drill bits and burrs
- Small parts

Please note: The instruments displayed are not included in the sterilizing and storage trays.

Oscillating Micro Saws



254000



20 7110 33/20 7111 73

254000

Oscillating Micro Saw, inbuilt irrigation tube, without saw blades, with fork wrench

Saw blades, short shaft, for use with 254000



254024

Saw Blade, short shaft, blade thickness 0.3 mm, width of blade 6 mm, working length 11 mm, package of 1, for use with 254000



254025

Same, width of blade 10 mm



254026

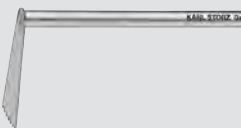
Same, width of blade 15 mm



254030

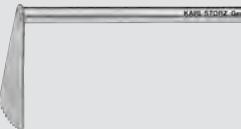
Same, blade thickness 0.15 mm, width of blade 6 mm

Saw blades, long shaft, for use with 254000



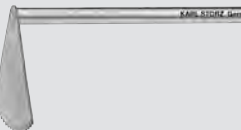
254027

Saw Blade, long shaft, blade thickness 0.3 mm, width of blade 6 mm, working length 26 mm, package of 1, for use with 254000



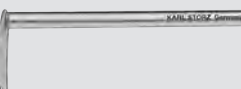
254028

Same, width of blade 10 mm



254029

Same, width of blade 15 mm



254031

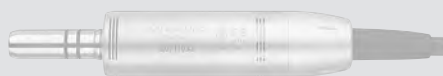
Same, blade thickness 0.15 mm, width of blade 6 mm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16

Micro Sagittal Saw, Osseo Scalpel



254100



20 7110 33/20 7111 73

254100 **Micro Sagittal Saw**, integrated irrigation tube, without saw blades, with fork wrench

Saw Blades, for use with 254100



254170

Saw Blade, blade thickness 0.35 mm, width of blade 4 mm, working length 10 mm, package of 12, for use with Micro Sagittal Saw 254100



254171

Same, width of blade 6 mm, working length 10 mm



254172

Same, width of blade 6 mm, working length 15 mm



254173

Same, width of blade 10 mm, working length 15 mm



254174

Same, width of blade 12 mm, working length 27 mm



254175

Same, width of blade 6 mm, working length 10 mm



254200



20 7110 33/20 7111 73

254200 **Osseo Scalpel, Micro Saw**, with axial/sagittal cut, pendulum stroke, especially appropriate for 3-dimensional incision guiding, integrated irrigation tube, without saw blades, with fork wrench

Saw Blades, for use with 254200



254235

Saw Blade, blade thickness 0.35 mm, working length 12 mm, package of 12, for use with Osseo Scalpel, Micro Saw 254200



254236

Same, working length 18 mm



254237

Same, working length 24 mm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16

Micro Compass Saws



254300



20 7110 33/20 7111 73

254300 **Micro Compass Saw**, detachable irrigation tube, without saw blades, with fork wrench

Saw Blades, for use with 254300



254312

Saw Blade, blade thickness 0.25 mm, working length 11 mm, package of 12, for use with 254300



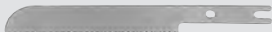
254313

Same, working length 14 mm



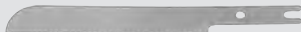
254314

Same, working length 18 mm



254315

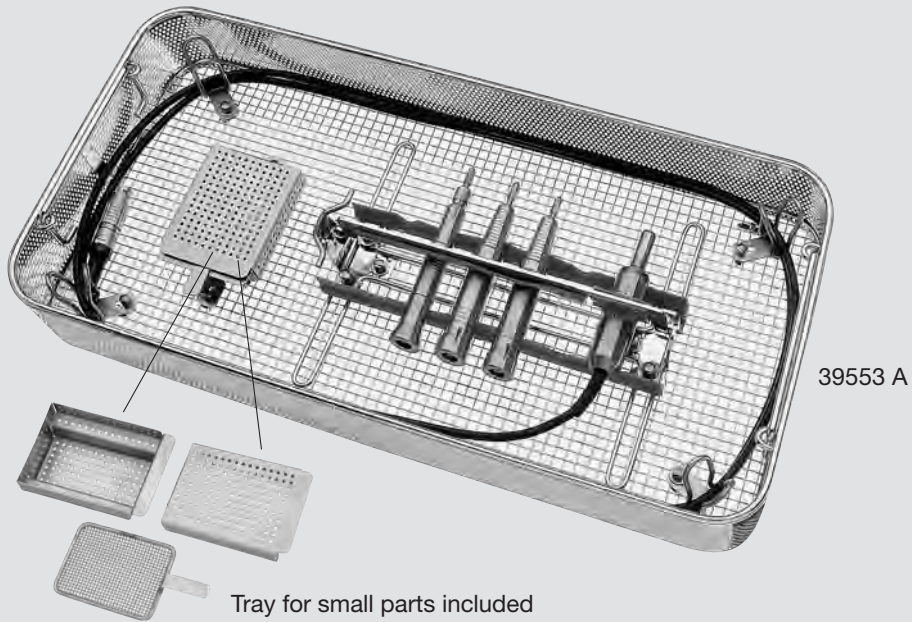
Same, working length 22 mm



254316

Same, working length 26 mm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16



39553 A **Wire Tray**, provides safe storage of accessories for the KARL STORZ micro saw system during cleaning and sterilization, includes basket for small parts

for storage of:

- Up to 6 saw handpieces
- Connecting cable
- EC micro motor
- Saw blades

Please note: The instruments displayed are not included in the sterilizing and storage tray.

Dermatomes

Special Features:

- Dermaplaning for obtaining small pieces of skin from behind the ear



20 7110 33/20 7111 73



253000

253000

Dermatome, with INTRA coupling, width of incision 12 mm, recommended maximum speed 8000 rpm

253001

Replacement Blade, for Dermatome 253000, width of incision 12 mm, sterile, package of 10



253100

253100

Dermatome, with INTRA coupling, width of incision 25 mm, recommended maximum speed 8000 rpm

253101

Replacement Blade, for Dermatome 253100, width of incision 25 mm, sterile, package of 10



253200

253200

Dermatome, with INTRA coupling, width of incision 50 mm, recommended maximum speed 8000 rpm

253201

Replacement Blade, for Dermatome 253200, width of incision 50 mm, sterile, package of 10



253300

253300

Dermatome, with INTRA coupling, width of incision 75 mm, recommended maximum speed 8000 rpm

253301

Replacement Blade, for Dermatome 253300, width of incision 75 mm, sterile, package of 10

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81



39554 A

- 39554 A **Wire Tray**, provides safe storage of accessories for the KARL STORZ dermatome system during cleaning and sterilization
- for storage of:**
- Up to 2 dermatomes
 - Connecting cable
 - EC micro motor with INTRA coupling

Please note: The instruments displayed are not included in the sterilizing and storage tray.

UNIDRIVE® S III ENT SCB

High-Speed Handpieces, angled, 100,000 rpm

For use with High-Speed Drills, shaft diameter 3.17 mm
and with High-Speed Micro Motor 20 7120 33

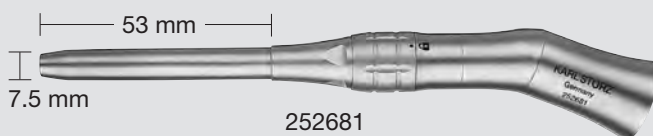
100,000 rpm
diameter 7.5 mm



20 7120 33



252680



252681

- 252680 **High-Speed Handpiece**, short, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**
- 252681 **High-Speed Handpiece**, medium, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**

UNIDRIVE® S III ENT SCB

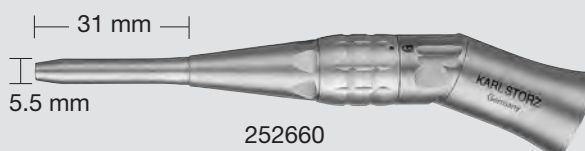
High-Speed Handpieces, angled and straight, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm
and with High-Speed Micro Motor 20 7120 33

60,000 rpm
diameter 5.5 mm



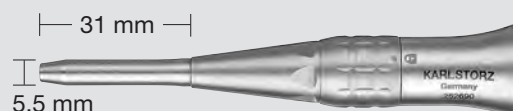
20 7120 33



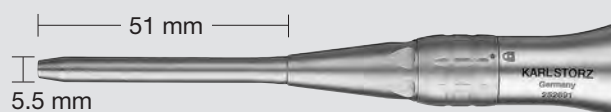
252660



252661



252690



252691

- 252660 **High-Speed Handpiece**, extra short, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252661 **High-Speed Handpiece**, short, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252690 **High-Speed Handpiece**, extra short, straight, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252691 **High-Speed Handpiece**, short, straight, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33

High-Speed Micro Motor 20 7120 33 see page 81

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252680



252681



High-Speed Standard Burrs, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium |
|----------------|----------|----------|
| 1 | 350110 S | 350110 M |
| 2 | 350120 S | 350120 M |
| 3 | 350130 S | 350130 M |
| 4 | 350140 S | 350140 M |
| 5 | 350150 S | 350150 M |
| 6 | 350160 S | 350160 M |
| 7 | 350170 S | 350170 M |



High-Speed Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium |
|----------------|----------|----------|
| 1 | 350210 S | 350210 M |
| 2 | 350220 S | 350220 M |
| 3 | 350230 S | 350230 M |
| 4 | 350240 S | 350240 M |
| 5 | 350250 S | 350250 M |
| 6 | 350260 S | 350260 M |
| 7 | 350270 S | 350270 M |

UNIDRIVE® S III ENT SCB

High-Speed Diamond Burrs, High-Speed Acorns,
High-Speed Barrel Burrs, High-Speed Neuro Fluted Burr

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252680



252681



High-Speed Coarse Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium |
|----------------|----------|----------|
| 3 | 350330 S | 350330 M |
| 4 | 350340 S | 350340 M |
| 5 | 350350 S | 350350 M |
| 6 | 350360 S | 350360 M |
| 7 | 350370 S | 350370 M |



High-Speed Acorns, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium |
|----------------|----------|----------|
| 7.5 | 350675 S | 350675 M |
| 9 | 350690 S | 350690 M |



High-Speed Barrel Burrs, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium |
|----------------|----------|----------|
| 6 | 350960 S | 350960 M |
| 9.1 | 350991 S | 350991 M |



High-Speed Neuro Fluted Burr, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium |
|----------------|----------|----------|
| 1.8 | 350718 S | 350718 M |
| 3 | 350730 S | 350730 M |

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



252660



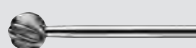
252661



252690

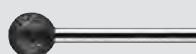


252691



High-Speed Standard Burrs, 60,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | extra short | short |
|----------------|-------------|----------|
| 1 | 330110 ES | 330110 S |
| 2 | 330120 ES | 330120 S |
| 3 | 330130 ES | 330130 S |
| 4 | 330140 ES | 330140 S |
| 5 | 330150 ES | 330150 S |
| 6 | 330160 ES | 330160 S |
| 7 | 330170 ES | 330170 S |



High-Speed Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

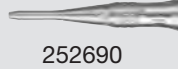
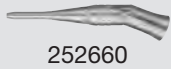
| Diameter in mm | extra short | short |
|----------------|-------------|----------|
| 0.6 | 330206 ES | 330206 S |
| 1 | 330210 ES | 330210 S |
| 1.5 | 330215 ES | 330215 S |
| 2 | 330220 ES | 330220 S |
| 3 | 330230 ES | 330230 S |
| 4 | 330240 ES | 330240 S |
| 5 | 330250 ES | 330250 S |
| 6 | 330260 ES | 330260 S |
| 7 | 330270 ES | 330270 S |

UNIDRIVE® S III ENT SCB

High-Speed Diamond Burrs, High-Speed Cylinder Burrs,
LINDEMANN High-Speed Fluted Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



High-Speed Coarse Diamond Burrs, 60,000 rpm, **for single use**,
sterile, package of 5

| Diameter in mm | extra short | short |
|----------------|-------------|----------|
| 3 | 330330 ES | 330330 S |
| 4 | 330340 ES | 330340 S |
| 5 | 330350 ES | 330350 S |
| 6 | 330360 ES | 330360 S |
| 7 | 330370 ES | 330370 S |



High-Speed Cylinder Burrs, 60,000 rpm, **for single use**,
sterile, package of 5

| Diameter in mm | extra short | short |
|----------------|-------------|----------|
| 4 | 330440 ES | 330440 S |
| 6 | 330460 ES | 330460 S |



LINDEMANN High-Speed Fluted Burrs, 60,000 rpm, **for single use**,
sterile, package of 5

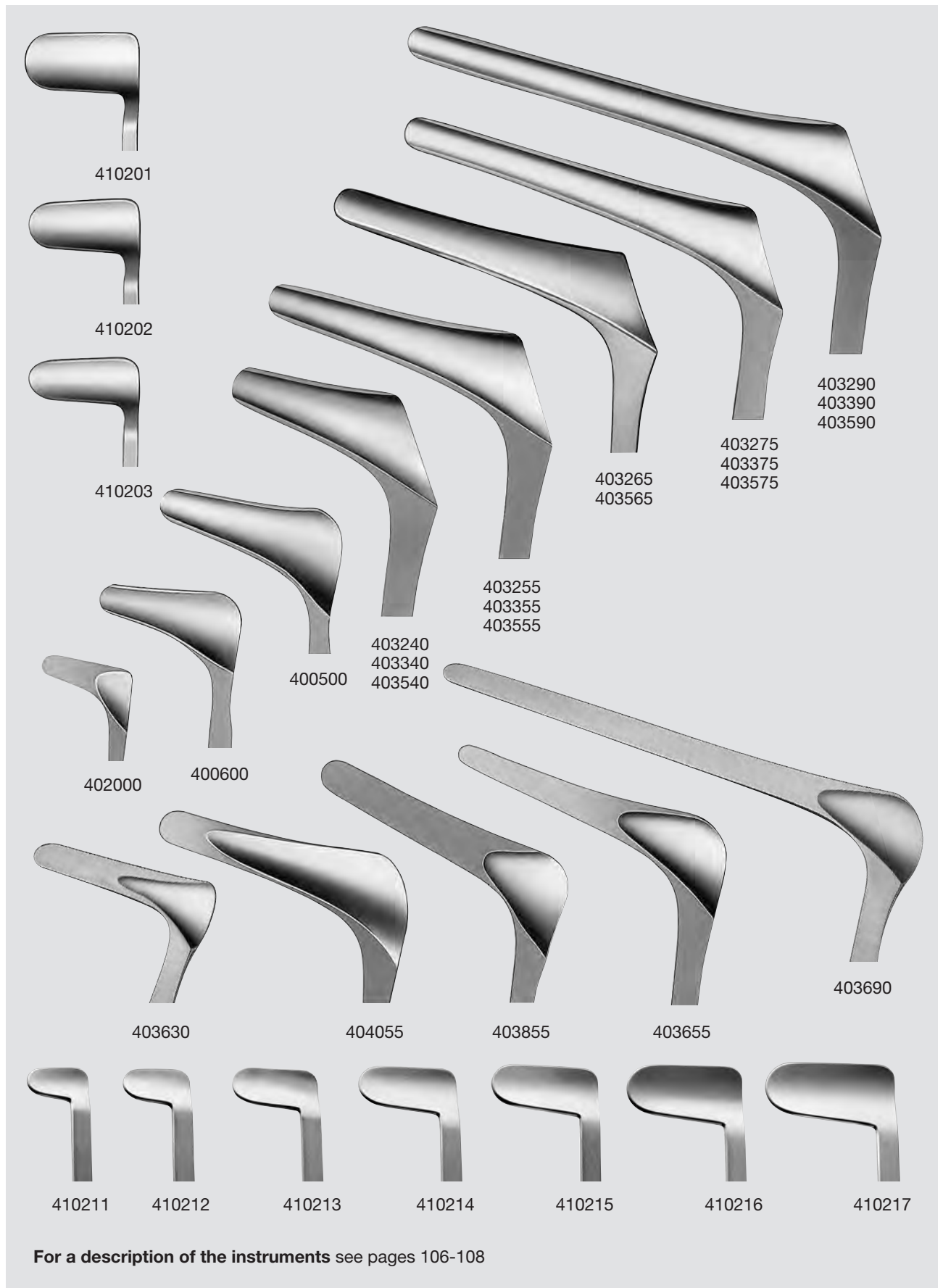
| Size in mm (diameter x length) | extra short | short |
|-----------------------------------|-------------|----------|
| Diameter 2.1/11 | 330511 ES | 330511 S |
| Diameter 2.3/26 | 330526 ES | 330526 S |



**INSTRUMENTS FOR RHINOLOGY
AND RHINOPLASTY**

Nose

Instruments for Rhinology and Rhinoplasty



Nose

Instruments for Rhinology and Rhinoplasty



400500



400520



400600



402000



410201 –
410203



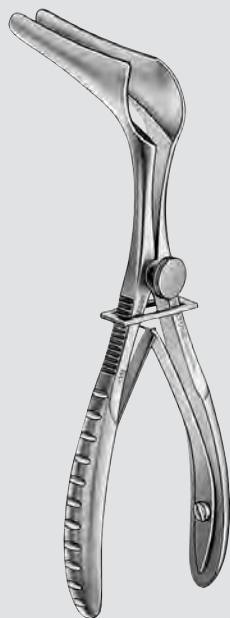
410211 –
410217

- 400500 HARTMANN **Nasal Speculum**, for adults, length 13 cm
- 400520 BECKMANN **Nasal Speculum**, for adults, curved sideways, length 15 cm
- 400600 HARTMANN **Nasal Speculum**, for children, length 13 cm
- 402000 HALLE-TIECK **Nasal Speculum**, for infants, length 13 cm
- 410201 THUDICHUM **Nasal Speculum**, self-retaining, large, blade size 18 x 11.5 mm, length 6.5 cm
- 410202 **Same**, medium, blade size 18 x 9.5 mm
- 410203 **Same**, small, blade size 18 x 8.5 mm
- 410211 THUDICHUM/MARK HOVELL **Nasal Speculum**, self-retaining, blade size 8.5 x 6 mm, length 7 cm
- 410212 **Same**, 9 x 7 mm
- 410213 **Same**, 12.5 x 8 mm
- 410214 **Same**, 15 x 8.5 mm
- 410215 **Same**, 16.5 x 9 mm
- 410216 **Same**, 18 x 10 mm
- 410217 **Same**, 19.5 x 10.5 mm

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



403240 –
403290



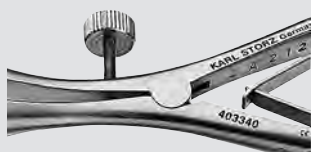
403340 –
403390



403540 –
403590



- 403240 KILLIAN-STRUYCKEN **Nasal Speculum**, with set rack, blade length 40 mm, length 15 cm
- 403255 **Same**, blade length 55 mm
- 403265 **Same**, blade length 65 mm
- 403275 **Same**, blade length 75 mm
- 403290 **Same**, blade length 90 mm



- 403340 KILLIAN-STRUYCKEN **Nasal Speculum**, with set screw, blade length 40 mm, length 15 cm
- 403355 **Same**, blade length 55 mm
- 403375 **Same**, blade length 75 mm
- 403390 **Same**, blade length 90 mm



- 403540 KILLIAN-STRUYCKEN **Nasal Speculum**, standard model, blade length 40 mm, length 13.5 cm
- 403555 **Same**, blade length 55 mm
- 403565 **Same**, blade length 65 mm
- 403575 **Same**, blade length 75 mm
- 403590 **Same**, blade length 90 mm

10-98:

Components/Spare Parts see chapter 16

Nose

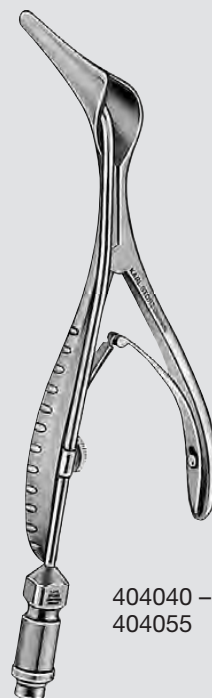
Instruments for Rhinology and Rhinoplasty



403630 –
403690



403835 –
403890



404040 –
404055

- 403630 COTTLE **Nasal Speculum**,
blade length 35 mm, length 13 cm
403655 **Same**, blade length 55 mm
403675 **Same**, blade length 75 mm
403690 **Same**, blade length 90 mm
- 403755 COTTLE **Nasal Speculum**, with slender blades,
with set screw, blade length 55 mm, length 13 cm
- 403835 COTTLE **Nasal Speculum**, with set screw,
blade length 35 mm, length 13 cm
403855 **Same**, blade length 55 mm
403865 **Same**, blade length 65 mm
403875 **Same**, blade length 75 mm
403890 **Same**, blade length 90 mm
- 404040 **Nasal Speculum**, with fiber optic light carrier,
blade length 40 mm, length 13.5 cm
404055 **Same**, blade length 55 mm

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



404455 –
404475

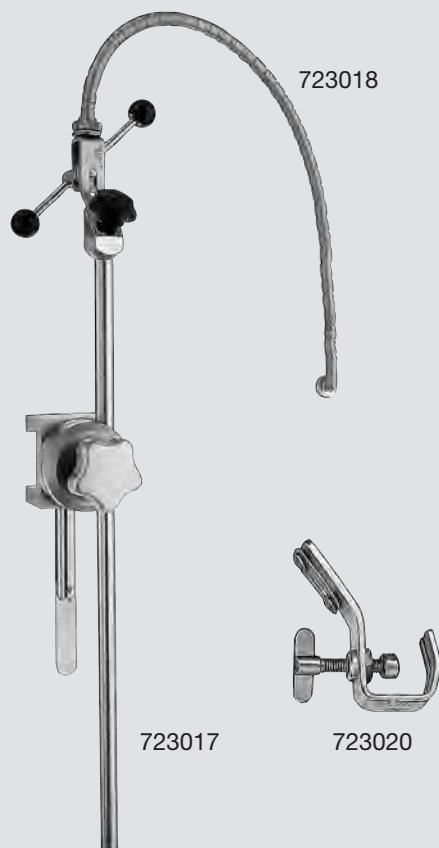


404555 –
404575

- 404455 RUDERT **Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, left blade length 55 mm, right blade shortened with 3 mandrels, length 15 cm
- 404465 **Same**, left blade length 65 mm
- 404475 **Same**, left blade length 75 mm
- 404555 RUDERT **Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, right blade length 55 mm, left blade shortened with 3 mandrels, length 15 cm
- 404565 **Same**, right blade length 65 mm
- 404575 **Same**, right blade length 75 mm

Nose

Instruments for Rhinology and Rhinoplasty



For use with Nasal Specula 404455 – 404475, 404555 – 405575

723017 **Rotating Clamp**, with holding rod for Flexible Tension Arms 723018 and 28162 FB, attachable to the operating table's sliding rail

723018 **Flexible Tension Arm**, length 50 cm

723020 **Connector**, for Flexible Tension Arm 723018, attachable to rods up to diameter 16 mm

The tension arm can also be attached to an anesthesia frame using the connector in place of the holding rod.

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty

416800

417013
417017

417217

417600

420000

423700

426516
426620

11 cm

10 cm

11 cm

426900

203835

416800 **Nasal Probe**, curved, working length 11 cm, total length 18 cm

417013 **Cotton Applicator**, standard model, triangular, serrated, diameter 1.3 mm, length 15 cm

417017 **Same**, diameter 1.7 mm

417217 **ZIEGLER Cotton Applicator**, with thread, diameter 1.7 mm, length 17.5 cm

417600 **FROHN Cotton Applicator**, twisted end, length 16 cm

420000 **SIEBENMANN Gauze Applicator**, length 18 cm

423700 **REUTER Epistaxis Balloon Catheter**, sterile

426516 **JANSEN Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm

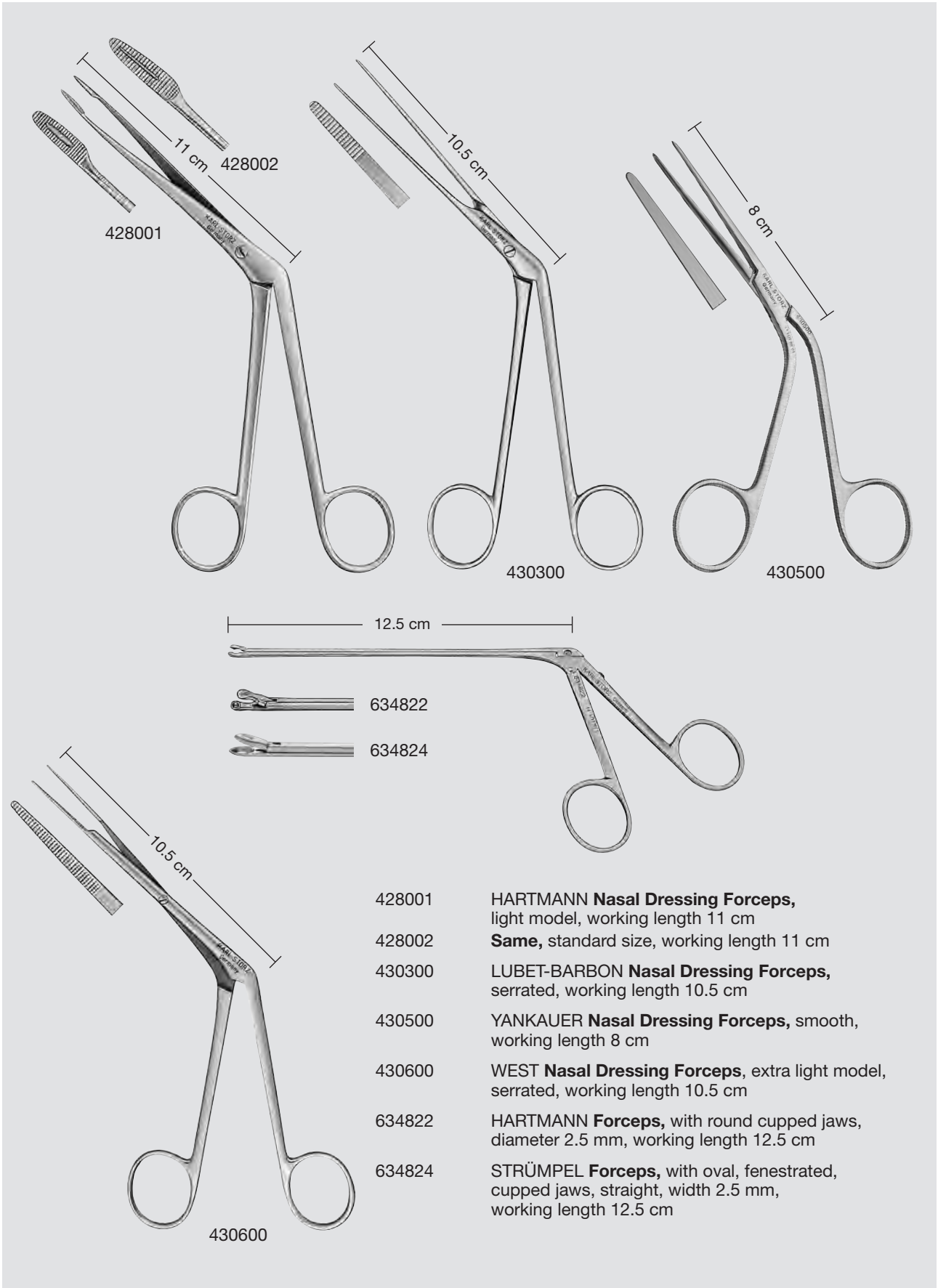
426620 **GRÜNWALD Nasal Dressing Forceps**, bayonet-shaped, length 20 cm

426900 **TRÖLTSCHE Nasal Dressing Forceps**, angular, working length 10 cm

203835 **Suction Tube**, conical, LUER, outer diameter 3.5 mm, working length 11 cm

Nose

Instruments for Rhinology and Rhinoplasty



- 428001 HARTMANN **Nasal Dressing Forceps**, light model, working length 11 cm
- 428002 **Same**, standard size, working length 11 cm
- 430300 LUBET-BARBON **Nasal Dressing Forceps**, serrated, working length 10.5 cm
- 430500 YANKAUER **Nasal Dressing Forceps**, smooth, working length 8 cm
- 430600 WEST **Nasal Dressing Forceps**, extra light model, serrated, working length 10.5 cm
- 634822 HARTMANN **Forceps**, with round cupped jaws, diameter 2.5 mm, working length 12.5 cm
- 634824 STRÜMPEL **Forceps**, with oval, fenestrated, cupped jaws, straight, width 2.5 mm, working length 12.5 cm

Nose

Instruments for Rhinology and Rhinoplasty



- 436610 **Nasal Atomizer**, straight, including graduated Container 10455 for local anaesthetic, for use with Rubber Bulb 437000
- 437000 **Rubber Bulb**, for Nasal Atomizer 436610, latex-free
- 437520 DE VILBIS **Nasal Atomizer**, with adjustable tip, rubber bulb and large bottle
- 437600 DE VILBIS **Nasal Atomizer**, with adjustable tip, rubber bulb, with bottle and rack
- 439200 GLATZEL **Nasal Mirror**, (CZERMAK's plate) for verification of nasal ventilation capacity, 13 x 20 cm

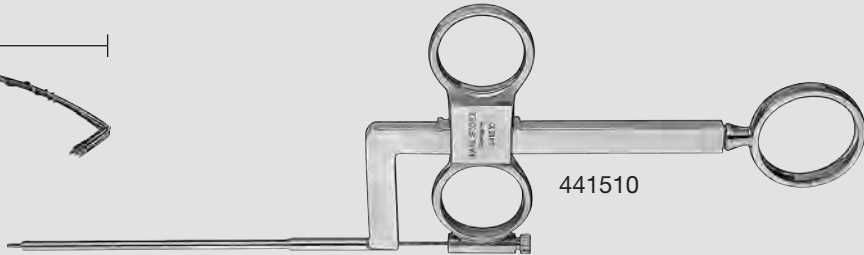
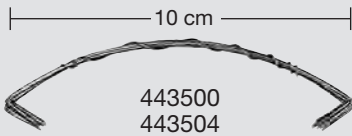
Components/Spare Parts see chapter 16

Nose

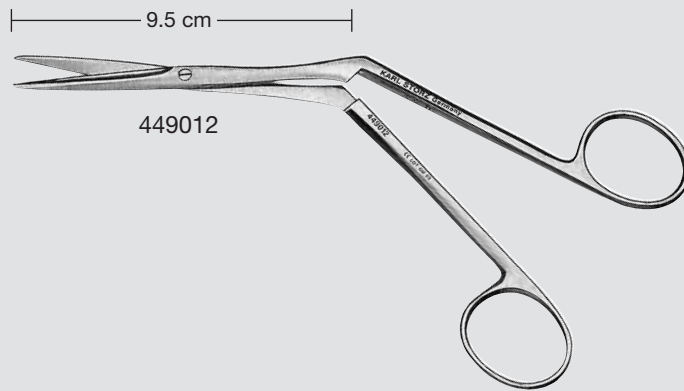
Instruments for Rhinology and Rhinoplasty



440000 KRAUSE **Nasal Snare**, length 25 cm



441510 LANGE **Nasal Snare**, bayonet-shaped, length 24 cm
 443500 **Nasal Snare Wire**, for 440000 – 441510, standard size, diameter 0.3 mm, length 10 cm, package of 25
 443504 **Same**, diameter 0.4 mm, package of 25

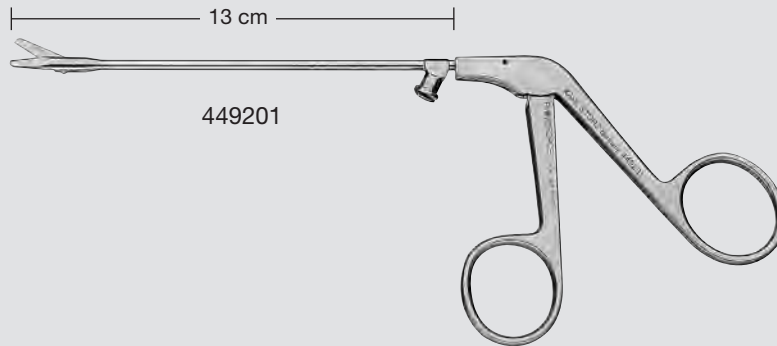


449001 HEYMANN **Nasal Scissors**, small, working length 9 cm
 449001 L **Nasal Scissors**, small, curved left, working length 9 cm
 449002 HEYMANN **Nasal Scissors**, medium (standard model), working length 9.5 cm
 449003 HEYMANN **Nasal Scissors**, large, working length 11 cm
 449012 HEYMANN **Nasal Scissors**, medium, serrated blades, working length 9.5 cm

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



449201



449201

RHINOFORCE® II Nasal Scissors, straight, with cleaning connector, working length 13 cm



449202

Same, curved to right



449203

Same, curved to left



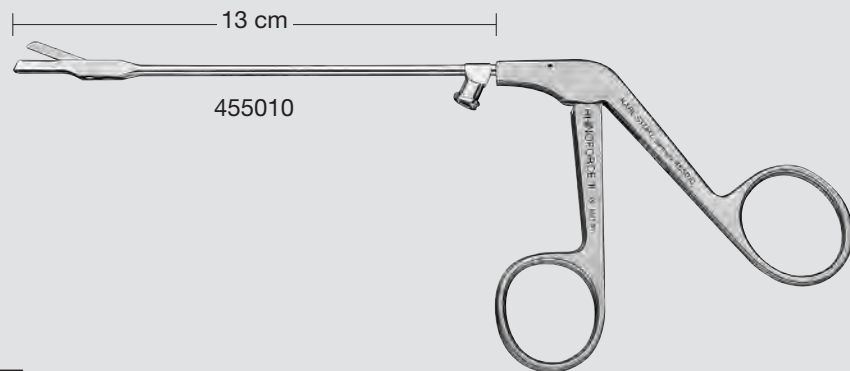
449204

RHINOFORCE® II Nasal Scissors, cutting blades curved upwards, to cut the anterior part of the middle turbinate in case of narrow nose and to prevent postoperative synechia, with cleaning connector, working length 13 cm



449205

Same, curved downwards



455010

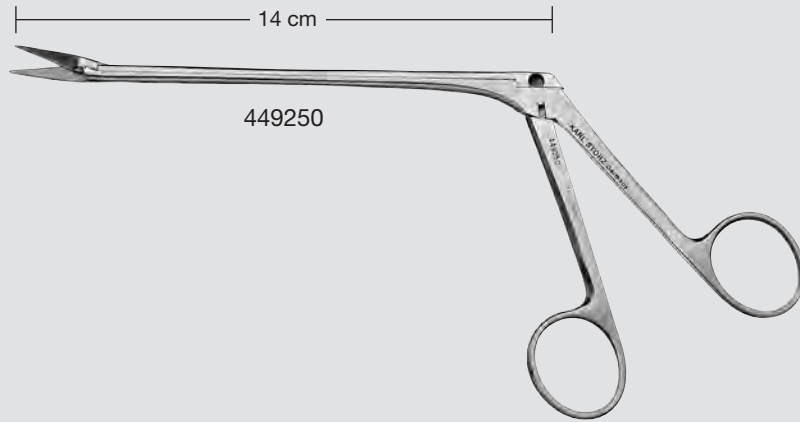


455010

STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps, with cleaning connector, working length 13 cm

Nose

Instruments for Rhinology and Rhinoplasty



449250

Nasal Scissors, ZÜRICH model, straight, large model, cutting length 18 mm, working length 14 cm



449251

Same, small model, cutting length 12 mm, working length 12 cm



449401

Nasal Scissors, straight, slender model, serrated, cutting length 10 mm, working length 11 cm



449402

Same, curved to right

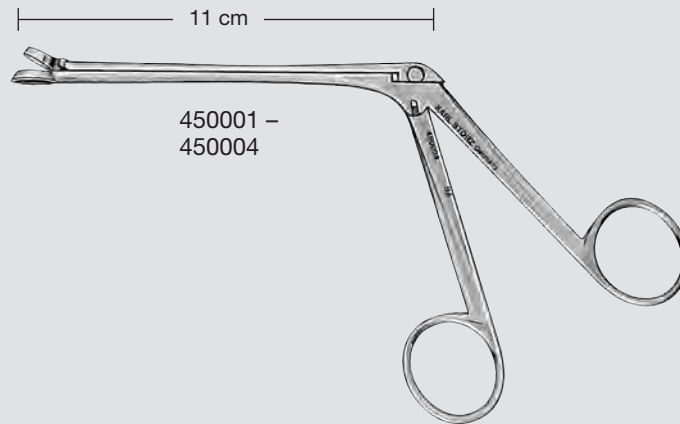


449403

Same, curved to left

Nose

Instruments for Rhinology and Rhinoplasty



450001

HARTMANN Nasal Cutting Forceps,
round, size 1, working length 11 cm



450002

Same, size 2



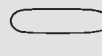
450003

Same, size 3



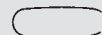
450004

Same, size 4



453501

GRÜNWARD-HENKE Nasal Cutting Forceps, size 1, working length 11 cm



453502

Same, size 2



453711

WATSON-WILLIAMS Nasal Cutting Forceps, 45° upturned, extra delicate, with basket, size 1, working length 13 cm



453712

Same, without basket, size 2



454001

SCHMEDEN Nasal Cutting Forceps, size 1, working length 11 cm



454002

Same, size 2



454003

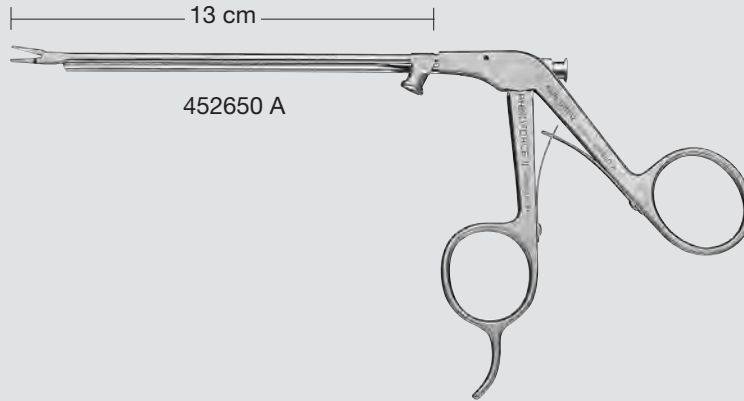
Same, size 3

Nose

Instruments for Rhinology and Rhinoplasty

MONTGOMERY-YOUNGS RHINOFORCE® II Clip Applicator,
for endonasal endoscopic sphenopalatine artery ligature

Winner of the 2006
Cutler Surgical Prize



The **Cutlers' Surgical Prize** is one of the most prestigious annual awards for innovation in the design or application of surgical instruments or techniques. The prize as well as the Clarke medal are awarded by the surgical association and the president of the Royal College of Surgeons of England.



452650 A MONTGOMERY-YOUNGS **RHINOFORCE® II Clip Applicator**, for endonasal endoscopic sphenopalatine artery ligature, with suction channel, handle with spring, straight, with cleaning connector, working length 13 cm, for use with Titanium Clips 8665 T



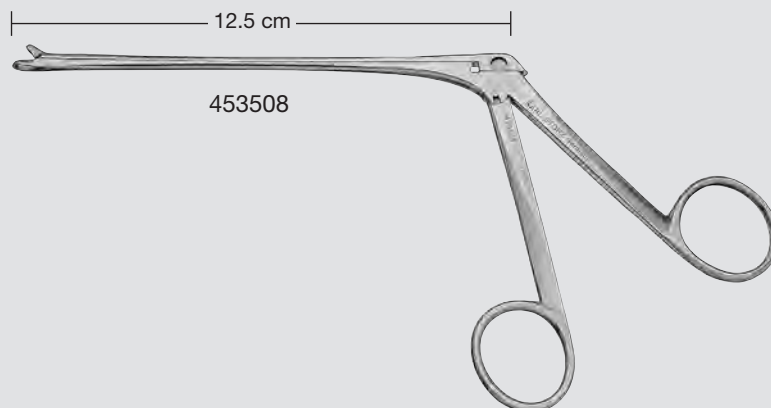
452650 C **Same**, jaws angled to the right













452650 D **Same**, jaws angled to the left

Nose

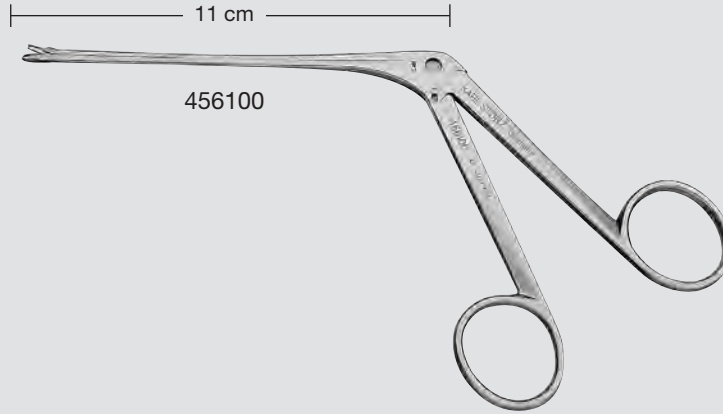
Instruments for Rhinology and Rhinoplasty



| | | |
|---|----------|--|
|  | 453508 | Nasal Forceps , straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm |
|  | 453508 K | Same , with foreign body basket |
|  | 453710 | Same , 45° upturned |
|  | 453509 | Nasal Forceps , straight, through-cutting, fine, bite 1.25 x 5 mm, working length 12.5 cm |
|  | 453510 | Same , robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm |
|  | 453511 | Same , robust model, large, bite 3 x 7.5 mm, working length 10.5 cm |
|  | 453721 | Nasal Forceps , 45° upturned, through-cutting, fine, bite 1.5 x 4 mm, working length 12.5 cm |
|  | 453722 | Same , robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm |
|  | 453723 | Same , robust model, medium size, bite 2.75 x 6 mm, working length 10.5 cm |
|  | 453724 | Same , robust model, large, bite 3 x 8 mm, working length 10.5 cm |

Nose

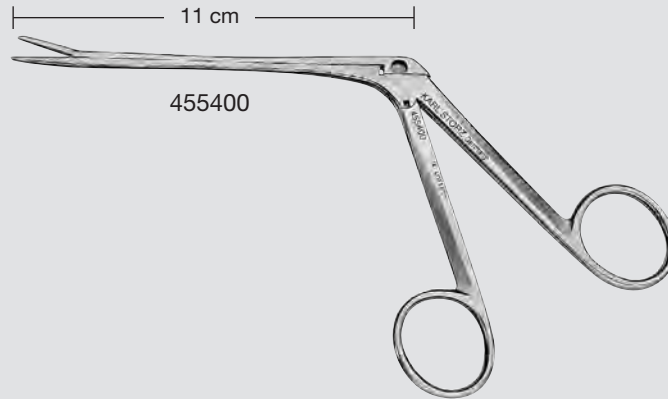
Instruments for Rhinology and Rhinoplasty



| | | |
|---|----------|--|
|  | 456100 | Nasal Forceps , straight, through-cutting, for a smooth cut, BLAKESLEY shape, width 2.5 mm, working length 11 cm |
|  | 456101 | Same , width 3.5 mm |
|  | 456102 | Same , width 4.2 mm |
|  | 456103 | Same , width 4.8 mm |
|  | 456111 R | Nasal Forceps , curved to right, through-cutting, for a smooth cut, BLAKESLEY shape, width 3.5 mm, working length 11 cm |
|  | 456111 L | Same , curved to left |
|  | 456120 | Nasal Forceps , 45° upturned, through-cutting, for a smooth cut, BLAKESLEY shape, width 2.5 mm, working length 11 cm |
|  | 456121 | Same , width 3.5 mm |
|  | 456122 | Same , width 4.2 mm |
|  | 456123 | Same , width 4.8 mm |

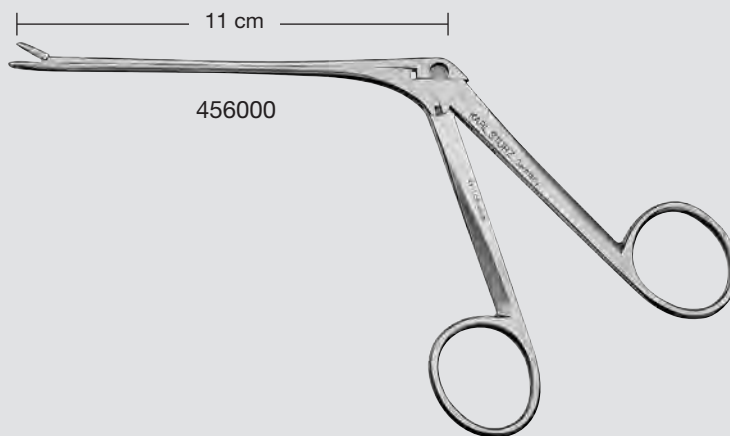
Nose

Instruments for Rhinology and Rhinoplasty



455400

NOYES-HARTMANN Nasal Forceps,
serrated jaws, working length 11 cm



456000

BLAKESLEY Nasal Forceps, straight,
size 0, working length 11 cm



456001

Same, size 1



456001 L

Same, size 1, working length 15 cm



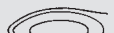
456002

BLAKESLEY Nasal Forceps, straight,
size 2, working length 11 cm



456003

Same, size 3

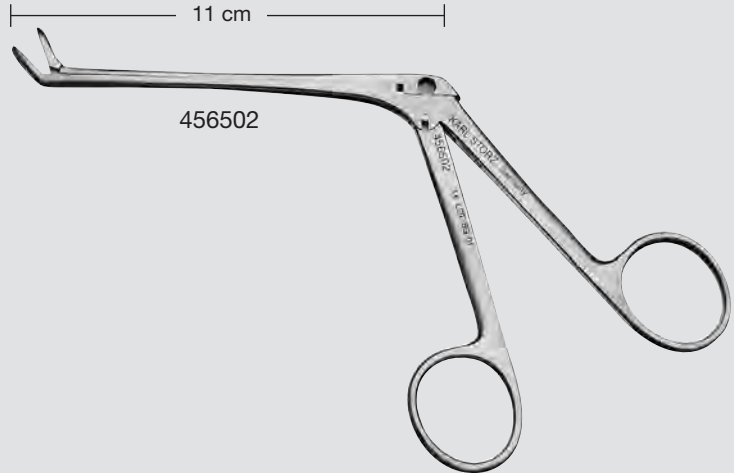


456004

Same, size 4

Nose

Instruments for Rhinology and Rhinoplasty



456500

BLAKESLEY-WILDE Nasal Forceps,
45° upturned, size 0, working length 11 cm



456501

Same, size 1



456502

Same, size 2



456503

Same, size 3



456504

Same, size 4



456801

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, size 1, working length 11 cm



456802

Same, size 2



456803

Same, size 3



456811

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, slender, long jaws 3.5 x 12 mm,
working length 11 cm

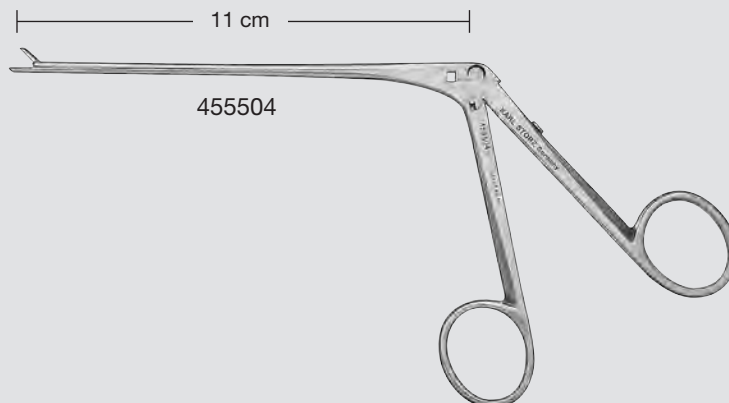






457720

BLAKESLEY-WIGAND Nasal Forceps,
60° upturned, long jaws 6 x 20 mm,
rounded tips, working length 11 cm

Nose

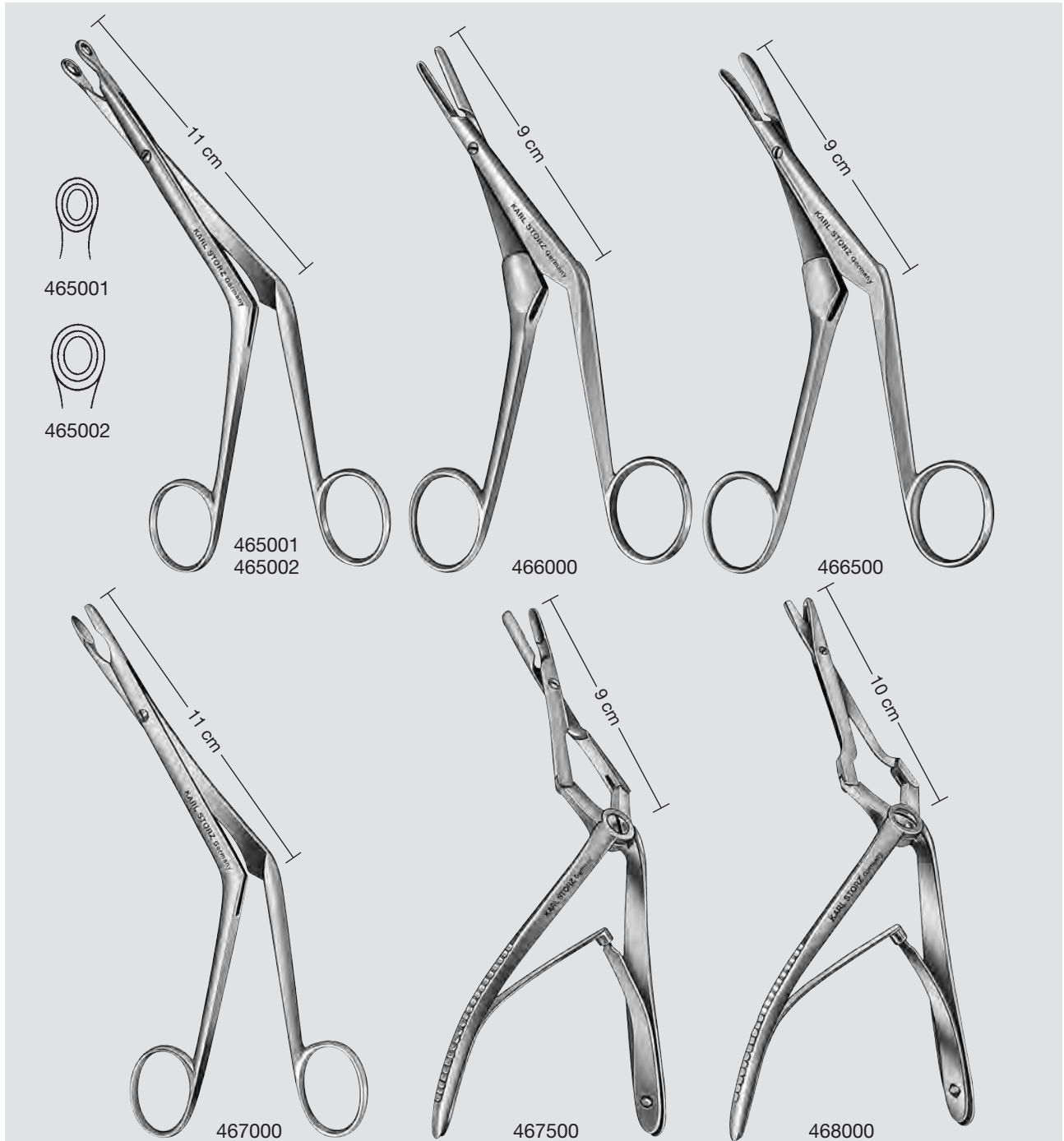
Instruments for Rhinology and Rhinoplasty



| | | |
|---|----------|---|
|  | 455500 | TAKAHASHI Nasal Forceps , straight, working length 9.5 cm |
|  | 455500 L | TAKAHASHI Nasal Forceps , straight, diameter 3 mm, working length 15 cm |
|  | 455504 | TAKAHASHI Nasal Forceps , straight, delicate, working length 12.5 cm |
|  | 457500 | WATSON-WILLIAMS Nasal Forceps , 45° upturned, working length 10 cm |
|  | 457505 | WATSON-WILLIAMS Nasal Forceps , 45° upturned, delicate, oval cupped jaws, working length 12.5 cm |
|  | 457700 | TAKAHASHI Nasal Forceps , 30° upturned, cupped jaws 9 x 2.5 mm, working length 10 cm |
|  | 457711 | KAMEL Nasal Forceps , 45° upturned, cupped jaws 12 x 4 mm, working length 11 cm |
|  | 457712 | Same , cupped jaws 20 x 4 mm |
|  | 458000 | WATSON-WILLIAMS Nasal Forceps , straight, with serrated jaws, working length 11 cm |
|  | 489045 | FERRIS-SMITH Nasal Forceps , serrated, working length 11 cm |

Nose

Instruments for Rhinology and Rhinoplasty

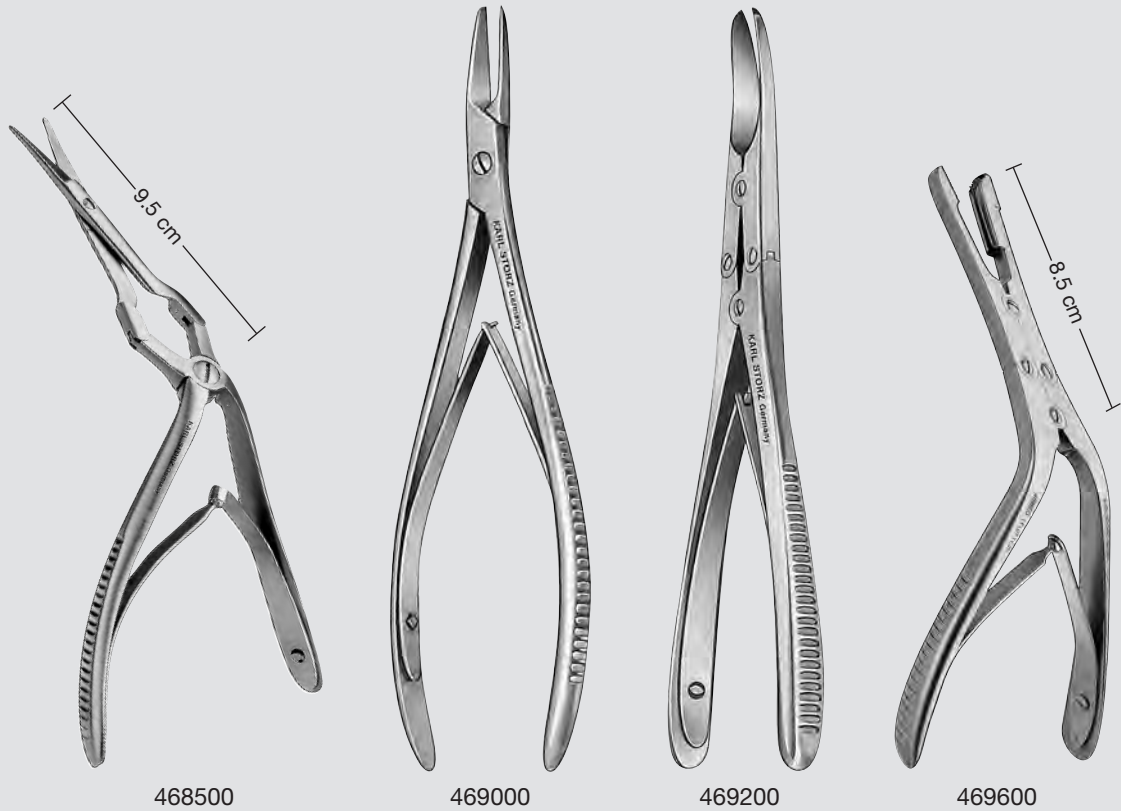


- 465001 BRÜNINGS-LUC **Septum Forceps**, size 1, working length 11 cm
- 465002 **Same**, size 2
- 466000 CRAIG **Septum Forceps**, straight, working length 9 cm
- 466500 CRAIG-DOMNICK **Septum Forceps**, curved, working length 9 cm
- 467000 HEYMANN-KNIGHT **Septum Forceps**, straight, working length 11 cm
- 467500 JANSEN **Septum Forceps**, angular, not through-cutting, working length 9 cm
- 468000 JANSEN-MIDDLETON **Septum Forceps**, angular, through-cutting, working length 10 cm

3-872

Nose

Instruments for Rhinology and Rhinoplasty



468500

469000

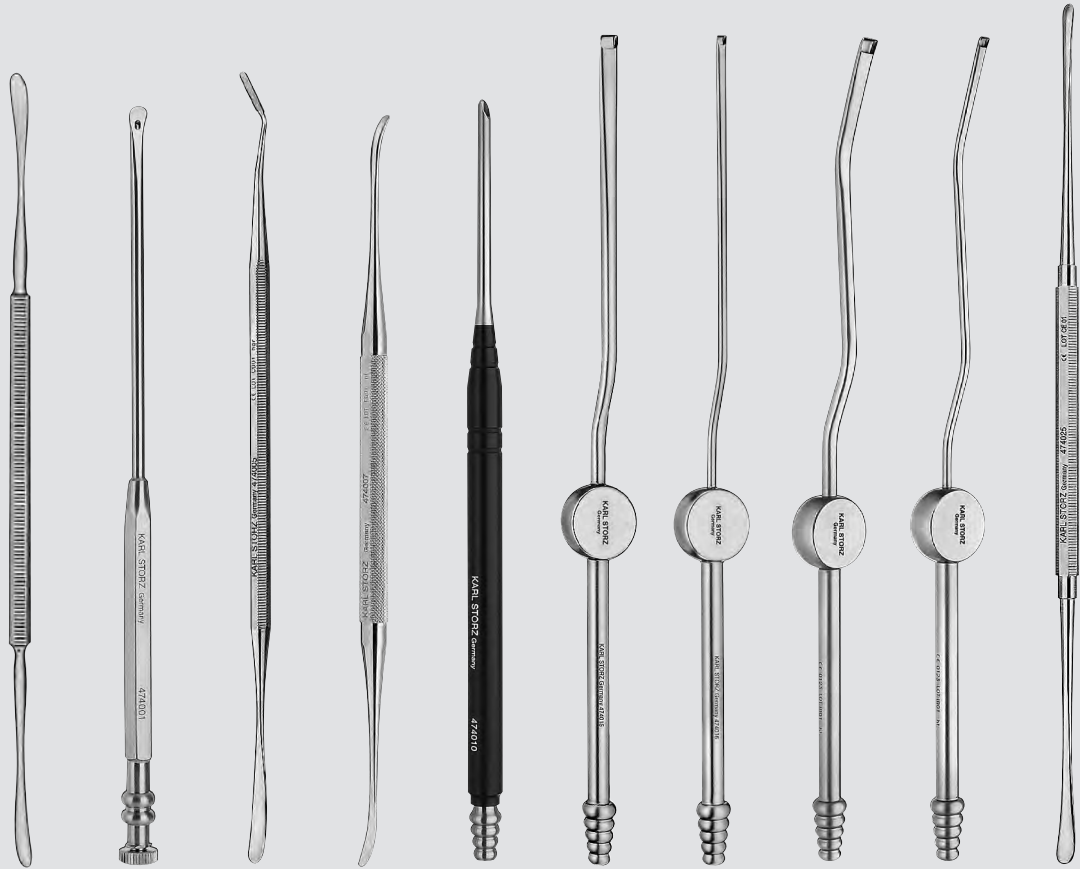
469200

469600

- 468500 BECKER-CAPLAN **Septum Scissors**, double action jaws, serrated, working length 9.5 cm
- 469000 KAZANJIAN **Forceps**, length 20 cm
- 469200 ROWLAND-MEYER **Nasal Hump Forceps**, double action jaws, curved blades, length 20 cm
- 469600 RUBIN **Septum Morcelizer**, with double joint, working length 8.5 cm

Nose

Instruments for Rhinology and Rhinoplasty



474000 474001 474005 474007 474010 474015 474016 474017 474018 474025

- 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- 474001 **FREER Suction Elevator**, with stylet, length 19 cm
- 474005 **FREER-JACOBS Elevator**, double-ended, semisharp, one side slightly curved FREER elevator, width 5 mm, other side JACOBS elevator, angled 45°, width 2.5 mm, length 20 cm, for infundibulotomy
- 474007 **FREER-YASARGIL Elevator**, double-ended, length 18.5 cm
- 474010 **HARALDSSON Suction Elevator**, with rotatable tube olive, length 19 cm
- 474015 **CASTELNUOVO Suction Elevator**, flat tip, 5 x 1.8 mm, lateral suction opening, bayonet-shaped, with grip plate, length 21 cm
- 474016 **Same**, flat tip 3 x 1.8 mm
- NEW** 474017 **CASTELNUOVO Suction Elevator**, flat tip 5 x 1.8 mm, lateral suction opening, bayonet-shaped, distal end curved, with grip plate, length 21 cm
- NEW** 474018 **Same**, 3 x 1.8 mm
- 474025 **Elevator**, double-ended, both sides sharp, length 22 cm

Nose

Instruments for Rhinology and Rhinoplasty



474200



474205



474210

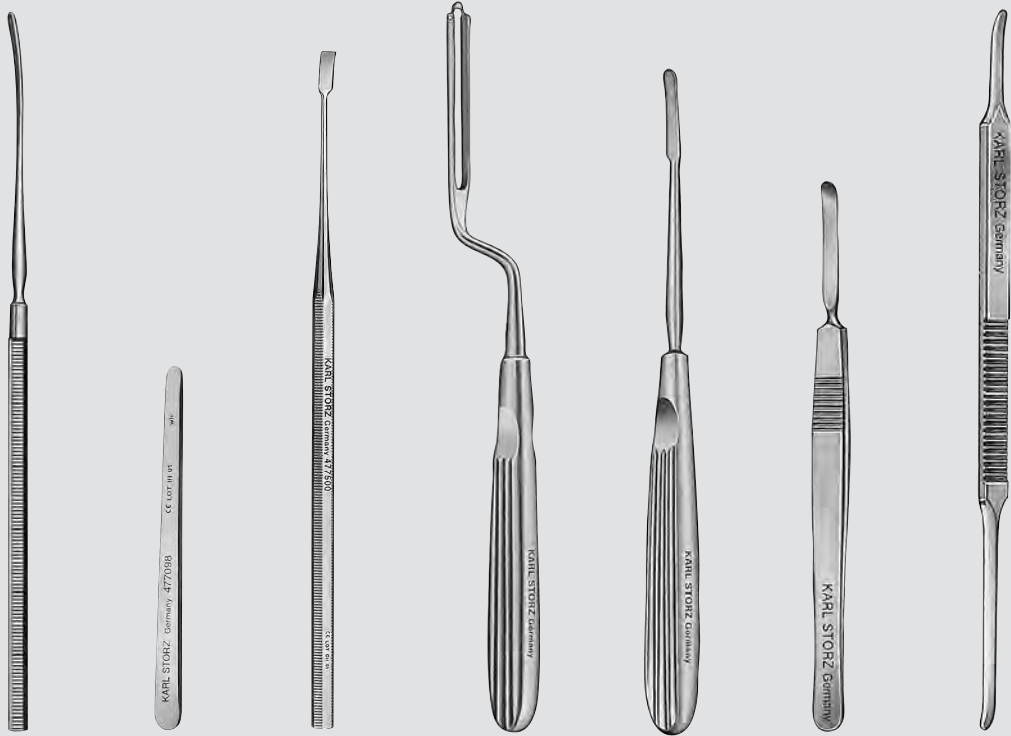


474519

- 474200 FREER-JOSEPH **Elevator**, double-ended, slender, semisharp and sharp, length 20 cm
- 474205 FREER-WEBER **Elevator**, double-ended, one side slightly curved FREER elevator, semisharp, other side strongly curved, sharp, length 19 cm
- 474210 HOWARTH **Elevator**, double-ended, sharp and blunt, length 21 cm
- 474519 KILLIAN **Elevator**, double-ended, standard model, sharp and blunt, length 19 cm

Nose

Instruments for Rhinology and Rhinoplasty

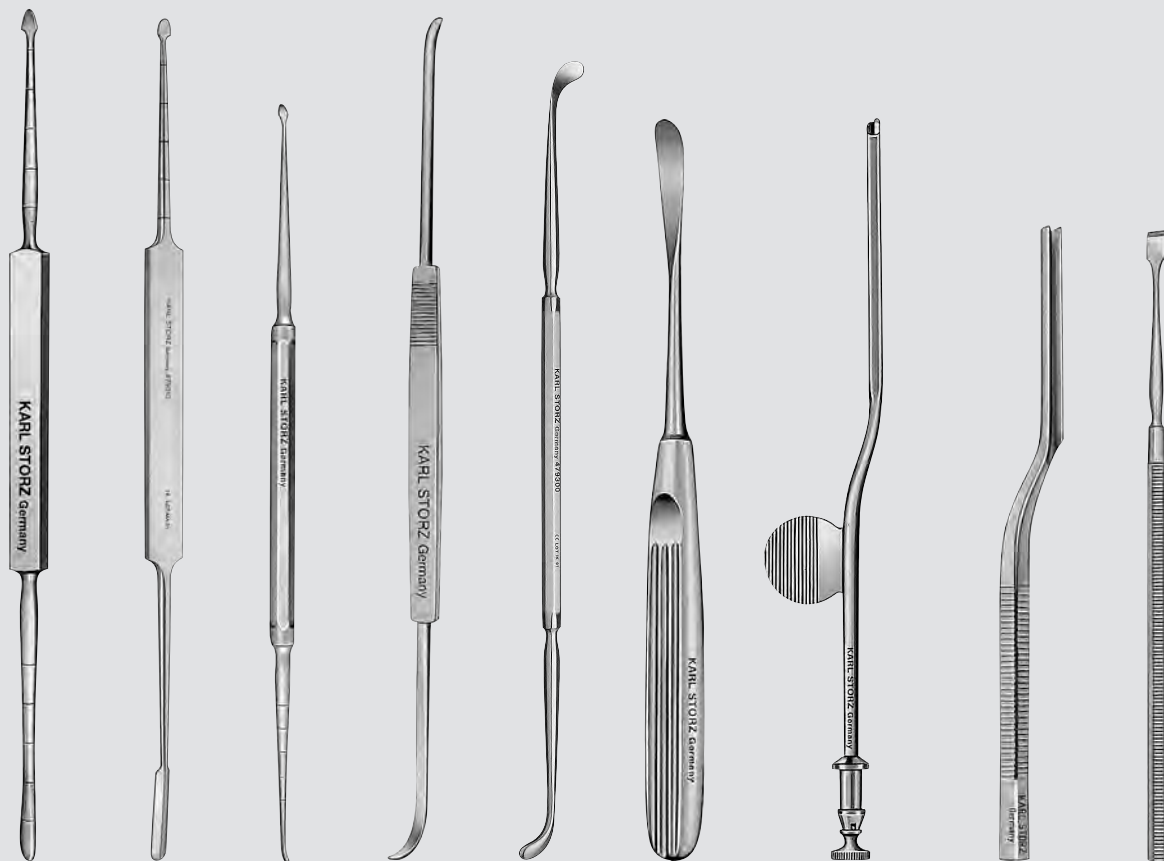


477004 477098 477500 477703
477704 478000 478303 –
478305 478400

- 477004 HALLE **Elevator**, blunt, width 4 mm, length 19 cm
- 477098 **Ala Dilator**, for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm
- 477500 FREER **Raspatory**, curved, width 4 mm, length 18 cm
- 477703 BALLENGER **Swivel Knife**, bayonet-shaped, width 3 mm, length 19.5 cm
- 477704 **Same**, width 4 mm
- 478000 JOSEPH **Raspatory**, slightly curved, length 17.5 cm
- 478303 McKENTY **Raspatory**, width 3 mm, length 14.5 cm
- 478304 **Same**, width 4 mm
- 478305 **Same**, width 5 mm
- 478400 McKENTY **Elevator**, double-ended, width 4.5 and 5 mm, length 19 cm

Nose

Instruments for Rhinology and Rhinoplasty



479000 479010 479100 479200 479300 479408 479800 480000 480800

- 479000 **MASING Elevator**, double-ended, graduated, sharp and blunt, length 22.5 cm
- NEW** 479010 **FULEIHAN Elevator**, double-ended, one end JOSEPH elevator, other end sharp, graduated, length 22.5 cm
- 479100 **COTTLE Elevator**, double-ended, semisharp and blunt, graduated, length 20 cm
- 479200 **COTTLE Raspatory**, double-ended, for tunneling, length 22.5 cm
- 479300 **PENNINGTON Elevator**, double-ended, curved to the right and left, length 21 cm
- 479408 **COTTLE Raspatory**, slightly curved, width 8 mm, length 19.5 cm
- 479800 **Suction Raspatory**, with stylet, length 19.5 cm
- 480000 **KILLIAN-CLAUS Septum Chisel**, V-shaped cutting edge, length 16.5 cm
- 480800 **FREER Septum Chisel**, straight, length 16.5 cm

Nose

Instruments for Rhinology and Rhinoplasty

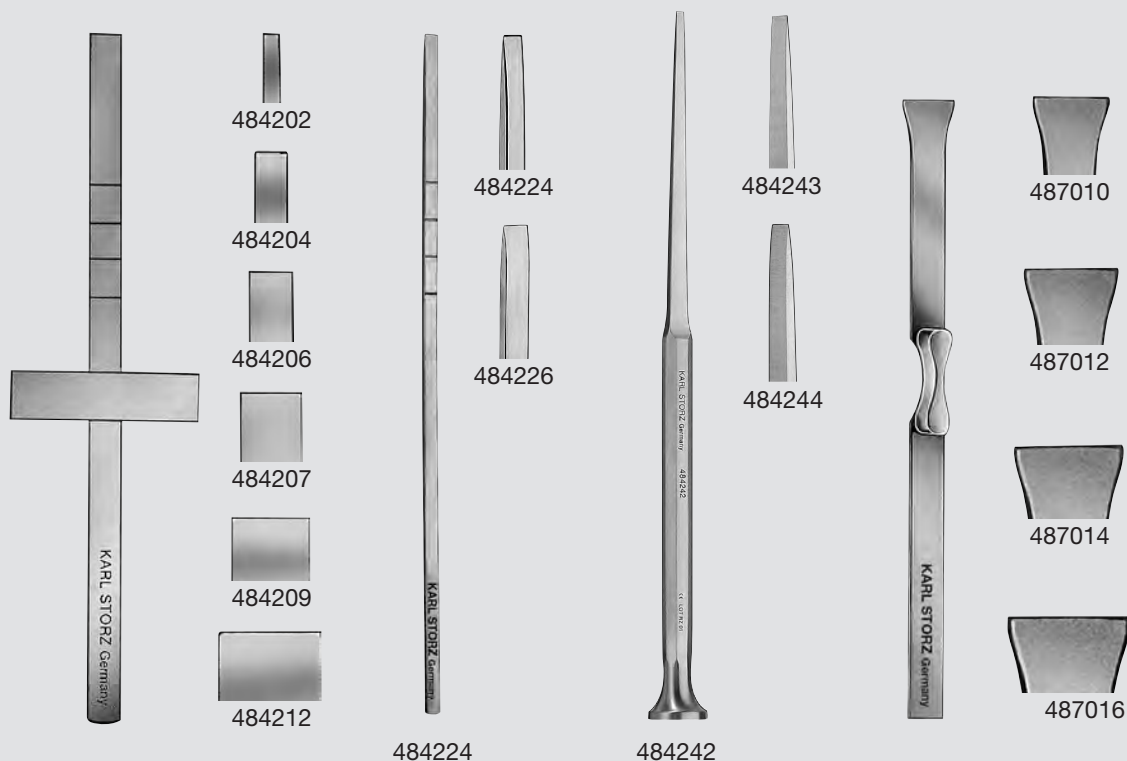


- 174200 COTTLE **Metal Mallet**, length 18 cm
- 174420 **Metal Mallet**, small model, diameter 20 mm, length 19.5 cm
- 174426 **Metal Mallet**, medium model, diameter 26 mm, length 19.5 cm
- 174430 **Metal Mallet**, large model, diameter 30 mm, length 19.5 cm
- 174700 **Metal Mallet**, with plastic replacement head, small, lightweight model, length 18 cm
- 174800 **Metal Mallet**, with plastic replacement head, length 22.5 cm
- 484003 COTTLE **Chisel**, flat, graduated, straight, width 3 mm, length 18.5 cm
- 484004 **Same**, width 4 mm
- 484006 **Same**, width 6 mm
- 484007 **Same**, width 7 mm
- 484009 **Same**, width 9 mm
- 484012 **Same**, width 12 mm
- 484106 COTTLE **Chisel**, flat, graduated, curved, width 6 mm, length 18.5 cm

Components/Spare Parts see chapter 16

Nose

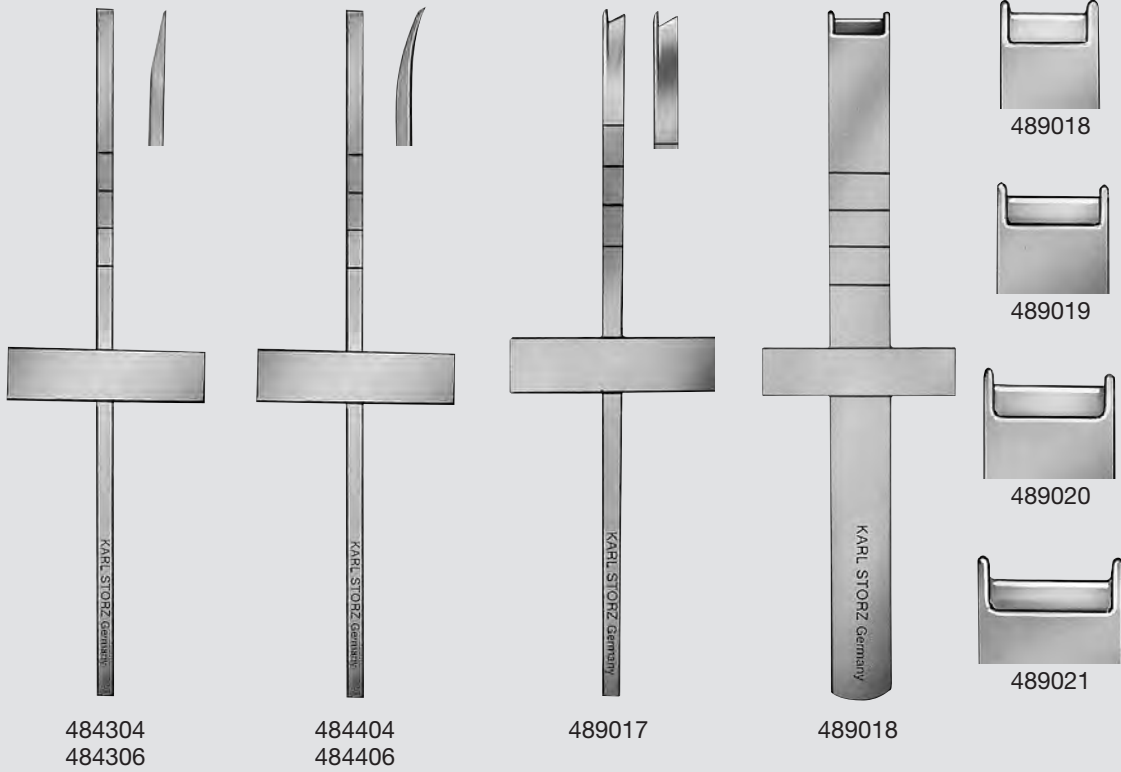
Instruments for Rhinology and Rhinoplasty



- 484202 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, straight, width 2 mm, length 18.5 cm
- 484204 **Same**, width 4 mm
- 484206 **Same**, width 6 mm
- 484207 **Same**, width 7 mm
- 484209 **Same**, width 9 mm
- 484212 **Same**, width 12 mm
- 484224 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, straight, width 4 mm, length 18.5 cm
- 484226 **Same**, width 6 mm
- NEW** 484242 **Osteotome**, straight, double-edged grinding, width 2 mm, length 19 cm
- NEW** 484243 **Same**, width 3 mm
- NEW** 484244 **Same**, width 4 mm
- 487010 RUBIN **Osteotome**, flat, straight, double-edged grinding, rounded corners, with finger grip stabilizer, width of cut 10 mm, length 16.5 cm
- 487012 **Same**, width 12 mm
- 487014 **Same**, width 14 mm
- 487016 **Same**, width 16 mm

Nose

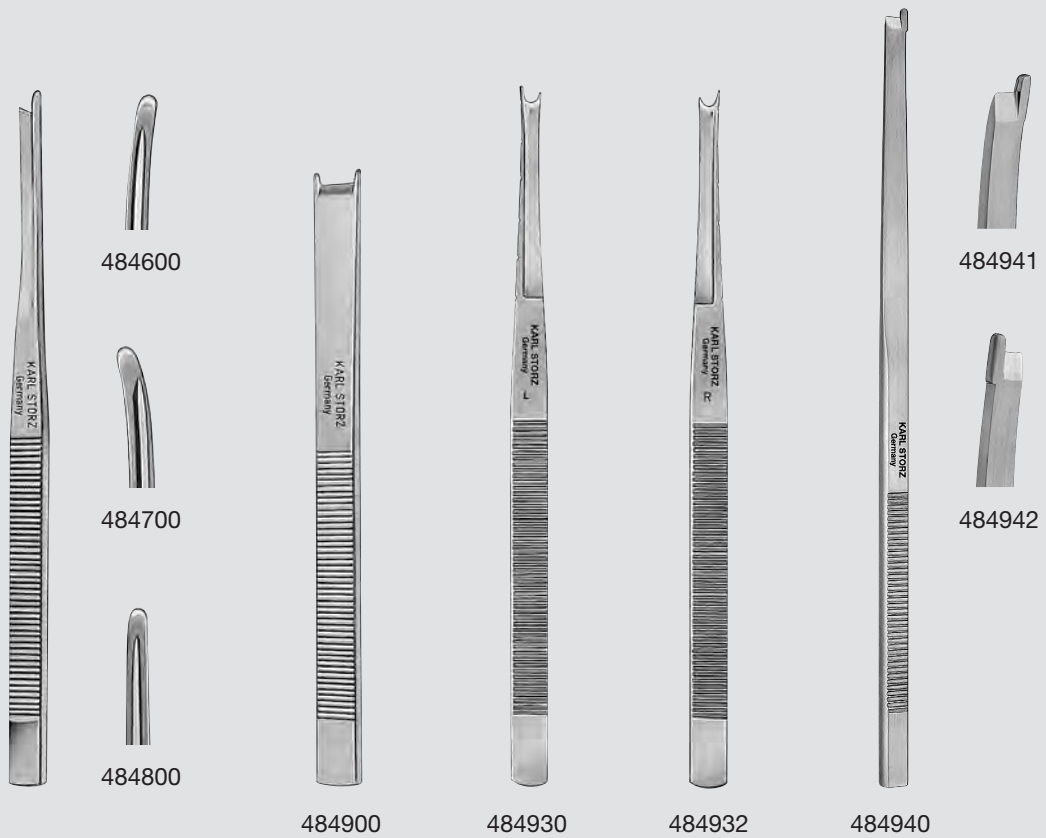
Instruments for Rhinology and Rhinoplasty



- 484304 COTTLE **Crossbar Chisel**, graduated, single-edged grinding, straight, width 4 mm, length 18.5 cm
- 484306 **Same**, width 6 mm
- 484404 COTTLE **Crossbar Chisel**, graduated, single-edged grinding, curved, width 4 mm, length 18.5 cm
- 484406 **Same**, width 6 mm
- 489017 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, with guard, width 5 mm, length 18.5 cm
- 489018 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, double-guarded, width of cut 10 mm, length 18.5 cm
- 489019 **Same**, width of cut 12 mm
- 489020 **Same**, width of cut 14 mm
- 489021 **Same**, width of cut 16 mm

Nose

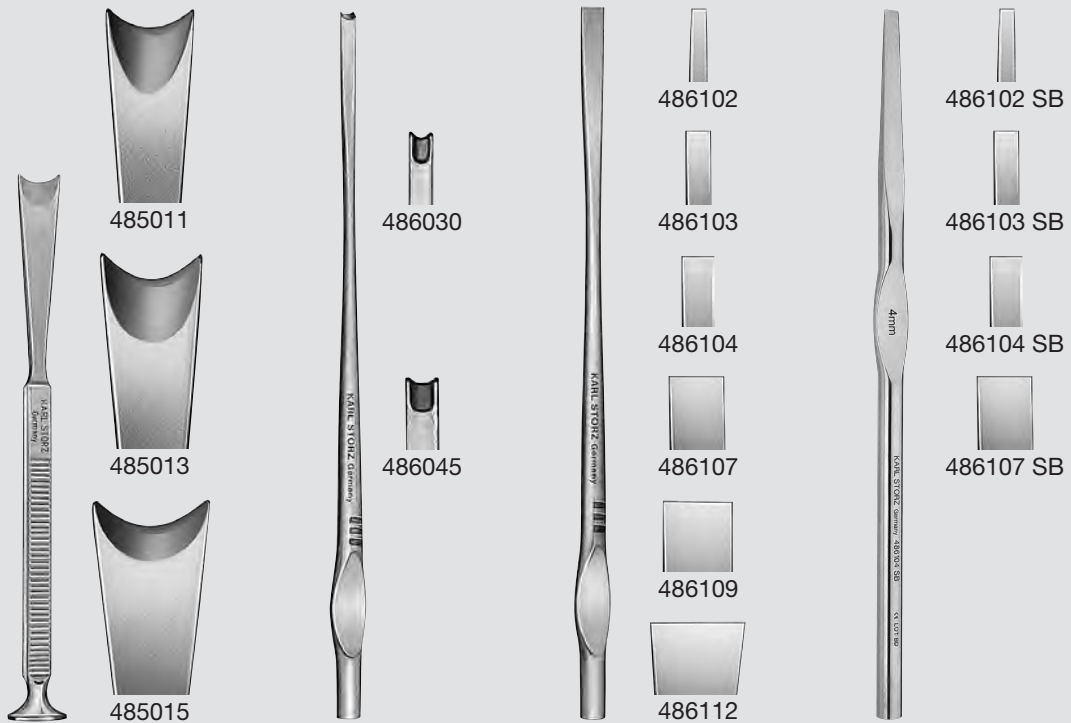
Instruments for Rhinology and Rhinoplasty



- 484600 **MASING Chisel**, slightly curved, with rounded guard right side, length 18 cm
- 484700 **Same**, on left
- 484800 **Same**, straight
- 484900 **MASING Chisel**, straight, double-guarded, width of cut 10 mm, length 16 cm
- 484930 **GUASTELLA-EY Osteotome**, graduated, slightly curved, lateral guard left, length 18 cm
- 484932 **Same**, guard right
- 484940 **Osteotome**, with small guard, straight, length 20 cm
- 484941 **Same**, right
- 484942 **Same**, left

Nose

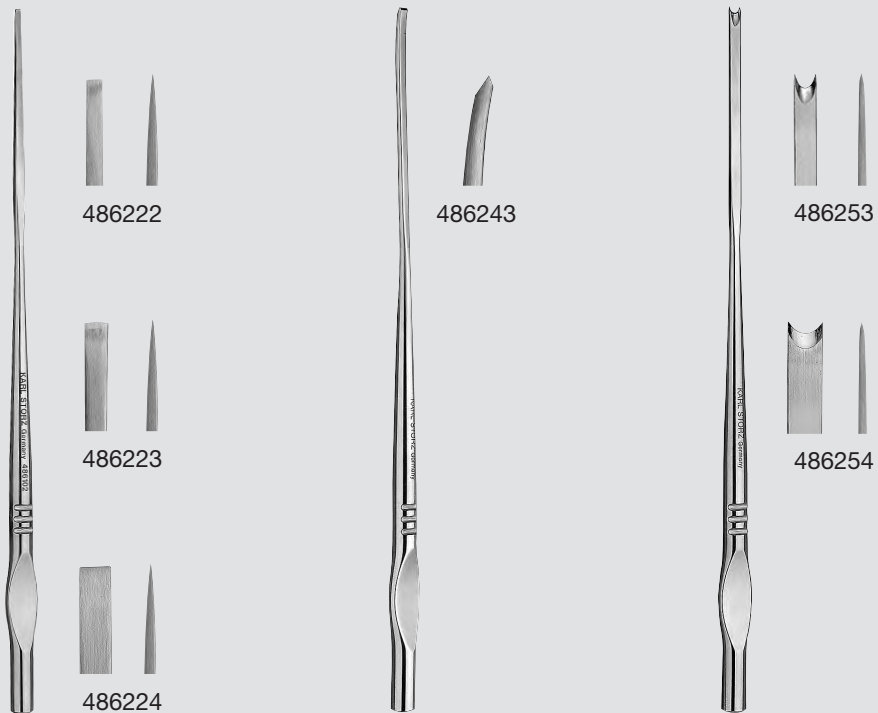
Instruments for Rhinology and Rhinoplasty



- 485011 McINDOE **Chisel**, hollow, width 11 mm, length 14.5 cm
- 485013 **Same**, width 13 mm
- 485015 **Same**, width 15 mm
- 486030 WALTER **Gouge**, hollow, width 3 mm, length 19 cm
- 486045 **Same**, width 4.5 mm
- 486102 WALTER **Osteotome**, flat, double-edged grinding, width 2 mm, length 19 cm
- 486103 **Same**, width 3 mm
- 486104 **Same**, width 4 mm
- 486107 **Same**, width 7 mm
- 486109 **Same**, width 9 mm
- 486112 **Same**, width 12 mm
- 486102 SB **Osteotome**, flat, double-edged grinding, with enlarged distal finger grip plate, width 2 mm, length 19 cm
- 486103 SB **Same**, width 3 mm
- 486104 SB **Same**, width 4 mm
- 486107 SB **Same**, width 7 mm

Nose

Instruments for Rhinology and Rhinoplasty



- 486222 BEHRBOHM-WALTER **Micro Osteotome**, extra delicate, long flat blade, double-edged grinding, with round handle and finger grip plate, width 2 mm, length 19 cm
- 486223 **Same**, width 3 mm
- 486224 **Same**, width 4 mm
- 486243 BEHRBOHM-WALTER **Micro Osteotome**, curved, extra delicate, with special double cut, with round handle and finger grip plate, width 3 mm, length 19 cm
- 486253 BEHRBOHM-WALTER **Double Concave Hollow Osteotome**, extra delicate, with special double-edged grinding, double-guarded, with round handle and finger grip plate, width 3 mm, length 19 cm
- 486254 **Same**, width 4.5 mm

Nose

Instruments for Rhinology and Rhinoplasty



492900



493000



494500



496800
496801

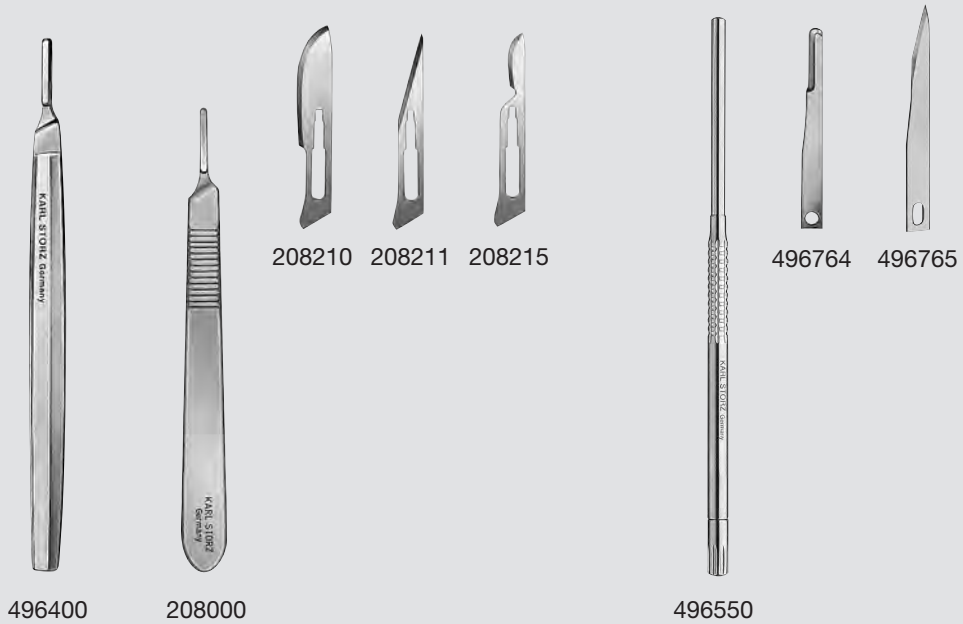


496900

- 492900 **FREER Nasal Knife**, rounded edge, length 16.5 cm
- 493000 **COTTLE Nasal Knife**, rounded edge, length 14 cm
- 494500 **JOSEPH Knife**, curved, backward cutting, double beveled, length 15 cm
- 496800 **Nasal Knife**, curved, roundly tipped blade, width 4.5 mm, length 13.5 cm
- 496801 **Same**, straight
- 496900 **MASING Nasal Knife**, curved, roundly tipped blade, length 14 cm

Nose

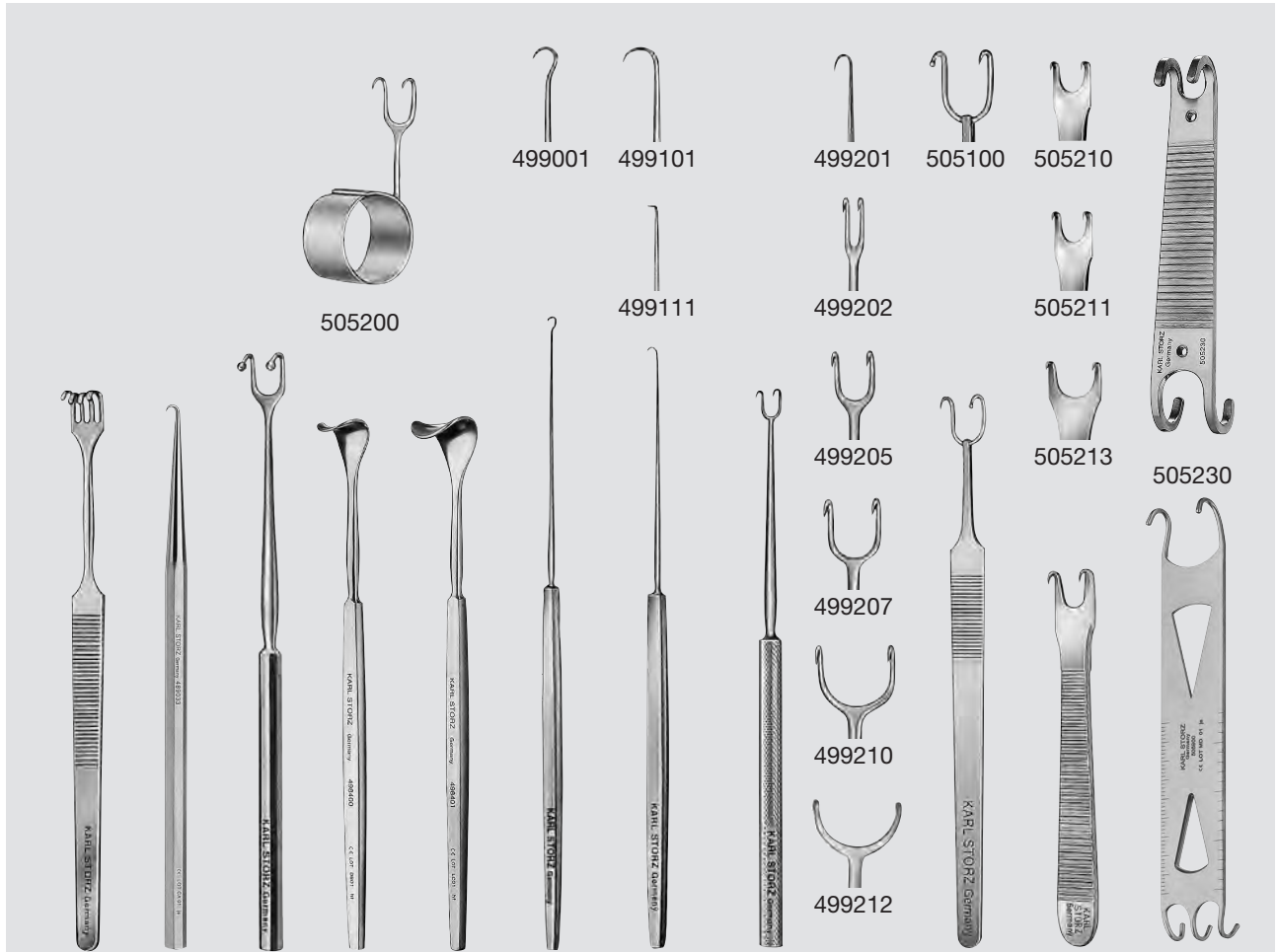
Instruments for Rhinology and Rhinoplasty



- 496400 **MASING Surgical Handle**, length 14 cm,
for Blades 208010 – 15, 208210 – 15
- 208000 **Surgical Handle**, Fig. 3, length 12.5 cm,
for Blades 208010 – 15, 208210 – 15
- 208210 **Blade**, Fig. 10, sterile, package of 100
- 208211 **Same**, Fig. 11
- 208215 **Same**, Fig. 15
- NEW** 496550 **Surgical Handle**, for miniature blades, round,
length 16.5 cm, for Blades 496764 – 65
- 496764 **Miniature Blade**, Fig. 64, round, sterile,
package of 25
- 496765 **Same**, Fig. 65, pointed

Nose

Instruments for Rhinology and Rhinoplasty



489028 489033 498000 498400 498401 499001
499111 499101 499201 –
499212 505000 505210 –
505100 505213 505900

489028 COTTLE **Retractor**, with 4 prongs, blunt, length 15 cm

489033 **Hook**, single, robust version, curved 180°, length 14 cm

498000 JOSEPH **Retractor**, length 15.5 cm

498400 COTTLE **Retractor**, narrow (standard model), length 14 cm

498401 COTTLE **Retractor**, wide, length 14 cm

499001 KILNER-GILLIES **Hook**, one prong, small curve, length 17 cm

499101 **Hook**, one prong, large curve, length 16.5 cm

499111 **Hook**, one prong, angled 90°, length 16.5 cm

499201 JOSEPH **Hook**, one prong, sharp, large curve, length 15 cm

499202 JOSEPH **Double Hook**, sharp, width 2 mm, length 15 cm

499205 **Same**, width 5 mm

499207 **Same**, width 7 mm

499210 **Same**, width 10 mm

499212 **Same**, small curve, width 12 mm

505000 COTTLE **Retractor**, two prongs, sharp prong on left, blunt prong on right, width 10 mm, length 14.5 cm

505100 **Same**, sharp prong on right, blunt prong on left

505200 COTTLE **Retractor**, two prongs, sharp, with thimble, width 10 mm, length 5.5 cm

505210 KILNER **Ala Retractor**, two prongs, sharp, width 10 mm, length 8.5 cm

505211 **Same**, blunt

505213 KILNER **Ala Retractor**, two prongs, sharp, width 13 mm, length 8.5 cm

505230 HARALDSSON **Double Hook**, two prongs, blunt, width 10 and 14 mm, length 8 cm

505900 FULEIHAN **Double Retractor**, two and three prongs, blunt, with cut-outs for cartilage treatment and scales, length 10 cm

Nose

Instruments for Rhinology and Rhinoplasty

505600 505610 505700 505800 505806 506000 506010 506020

506400 506496

40 mm 40 mm 45 mm 53 mm 45 mm

3-99s

Components/Spare Parts see chapter 16

- 505600 SENN **Retractor**, double-ended, blunt, length 15 cm
- 505610 SENN-MÜLLER **Retractor**, double-ended, one side with 3 sharp prongs, other side with blunt blade, length 16 cm
- 505700 COTTLE **Knife Guide and Retractor**, one side with two-pronged nostril retractor, other side with flat retractor, with duct for guide of cut, length 19 cm
- 505800 NEIVERT **Knife Guide and Retractor**, made of wire, one side with nostril retractor, other side with flat retractor, length 18 cm
- 505806 RETTINGER-NEIVERT **Knife Guide and Retractor**, made of wire, one side with nostril retractor, width 17 mm, other side with flat retractor, with duct for guide of cut, length 18 cm
- 506000 WALTER **Nasal Retractor**, double-ended, one side with retractor, width of retractor blade 12 mm, length of retractor blade 45 mm, other side with two pronged retractor for nasal wings, length 12.5 cm
- 506010 FULEIHAN **Nasal Retractor**, blade oval fenestrated, width of retractor blade 12 mm, length of retractor blade 53 mm, length 10 cm
- 506020 RETTINGER **Nasal Retractor**, width of retractor blade 11.5 mm, length of retractor blade 45 mm, with flat handle, length 10 cm
- 506400 AUFRICHT **Nasal Retractor**, width of retractor blade 8 mm, length of retractor blade 40 mm, length 16.5 cm
- 506496 **Same**, with fiber optic light carrier

Nose

Instruments for Rhinology and Rhinoplasty

“The Diamond Standard®” Scissors

Special Features:

- Good cutting quality
- Razor-sharp lower blade ensures easy and efficient cutting
- Color code: one gold-plated handle ring
- Some models are available with tungsten carbide inserts, color code: one black handle ring, one gold-plated handle ring

Scissors with titanium nitride coating

Special Features:

- More durable surface
- Color code: copper
- Some models are available with tungsten carbide inserts



- 449002 DS HEYMANN **Nasal Scissors**, medium (standard model), working length 9.5 cm, color code: one gold-plated handle ring
- 511010 DS **Scissors**, extra delicate, straight, sharp/sharp, length 10.5 cm, color code: one gold-plated handle ring
- 511010 DST **Same**, with titanium nitride coating, color code: copper
- 511210 DS **Scissors**, extra delicate, curved, sharp/sharp, length 10.5 cm, color code: one gold-plated handle ring
- 511210 DST **Same**, with titanium nitride coating, color code: copper

- 511414 DS JOSEPH **Scissors**, curved, length 14 cm, color code: one gold-plated handle ring
- 511414 DST **Same**, with titanium nitride coating, color code: copper
- 511514 DS METZENBAUM **Scissors**, curved, length 14.5 cm, color code: one gold-plated handle ring
- 511514 DST **Same**, with titanium nitride coating, color code: copper
- 511812 DST KILNER **Scissors**, with tungsten carbide inserts, curved, flat end, with titanium nitride coating, length 12.5 cm, color code: copper

Nose

Instruments for Rhinology and Rhinoplasty



- 512310 DS **Scissors**, with tungsten carbide inserts, straight, sharp/sharp, length 11.5 cm, color code: one black handle ring, one gold-plated handle ring
- 512311 DS **Same**, curved
- 512311 DST **Same**, curved, with titanium nitride coating, color code: copper
- 512511 DS **Scissors**, with tungsten carbide inserts, curved, blunt/blunt, extra fine, length 11 cm, color code: one black handle ring, one gold-plated handle ring
- 512614 DS **METZENBAUM Scissors**, with tungsten carbide inserts, curved, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring
- 512614 DST **Same**, with titanium nitride coating, color code: copper
- 512618 DS **METZENBAUM Scissors**, with tungsten carbide inserts, curved, length 18 cm, color code: one black handle ring, one gold-plated handle ring
- 512618 DST **Same**, with titanium nitride coating, color code: copper

- 512718 DS **METZENBAUM Scissors**, robust, with tungsten carbide inserts, curved, length 18 cm, color code: one black handle ring, one gold-plated handle ring
- 513200 DS **WALTER Angular Scissors**, length 10 cm, color code: one gold-plated handle ring
- 513200 DST **Same**, with titanium nitride coating, color code: copper
- 513410 DS **COTTLE Scissors**, curved, length 10.5 cm, color code: one gold-plated handle ring
- 513410 DST **Same**, with titanium nitride coating, color code: copper
- 513512 DS **Scissors**, sharp/sharp, length 12 cm, color code: one gold-plated handle ring
- 513700 DS **FOMON Scissors**, curved surface, slender, working length 6.5 cm, color code: one gold-plated handle ring

Nose

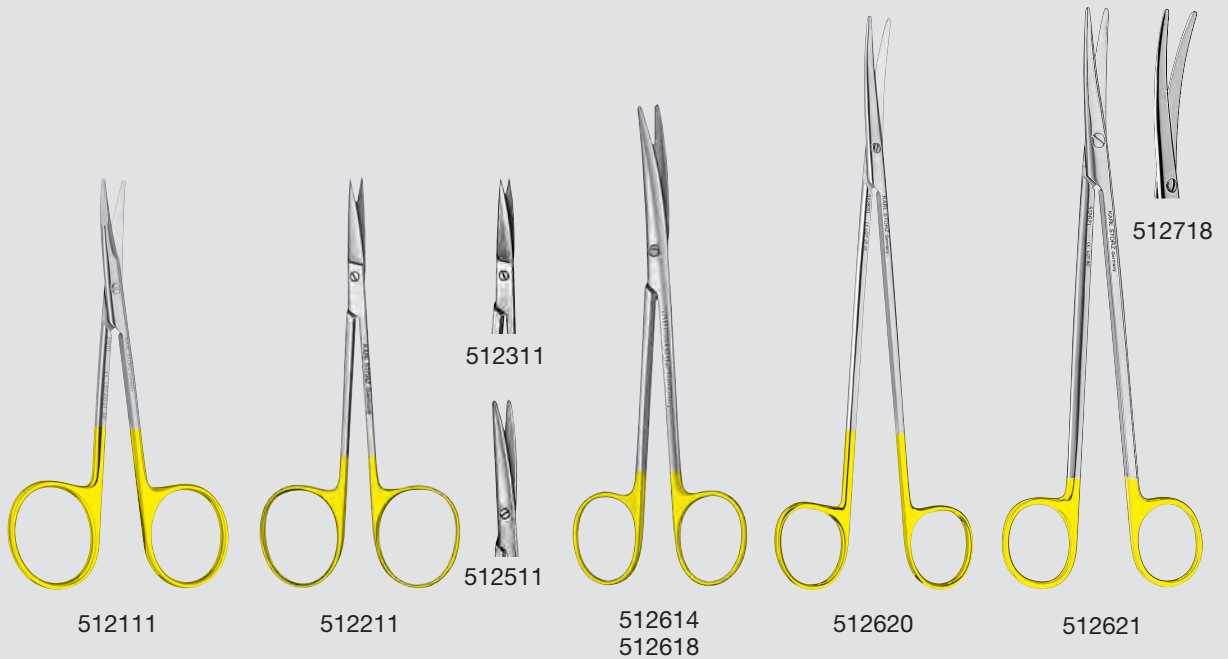
Instruments for Rhinology and Rhinoplasty



- | | |
|--------|--|
| 511010 | Scissors , extra delicate, straight, length 10 cm |
| 511210 | Same , curved |
| 511314 | JOSEPH Scissors , straight, length 14 cm |
| 511414 | Same , curved |
| 511514 | METZENBAUM Scissors , curved, length 14 cm |
| 752918 | Same , length 18 cm |
| 511612 | METZENBAUM-LAHEY Scissors , curved, extra slender, length 12 cm |
| 511615 | Same , length 15 cm |
| 511812 | KILNER Scissors , curved, flat end, length 12.5 cm |
| 511814 | Same , length 14 cm |
| 512012 | FOMON Scissors , curved, length 12 cm |

Nose

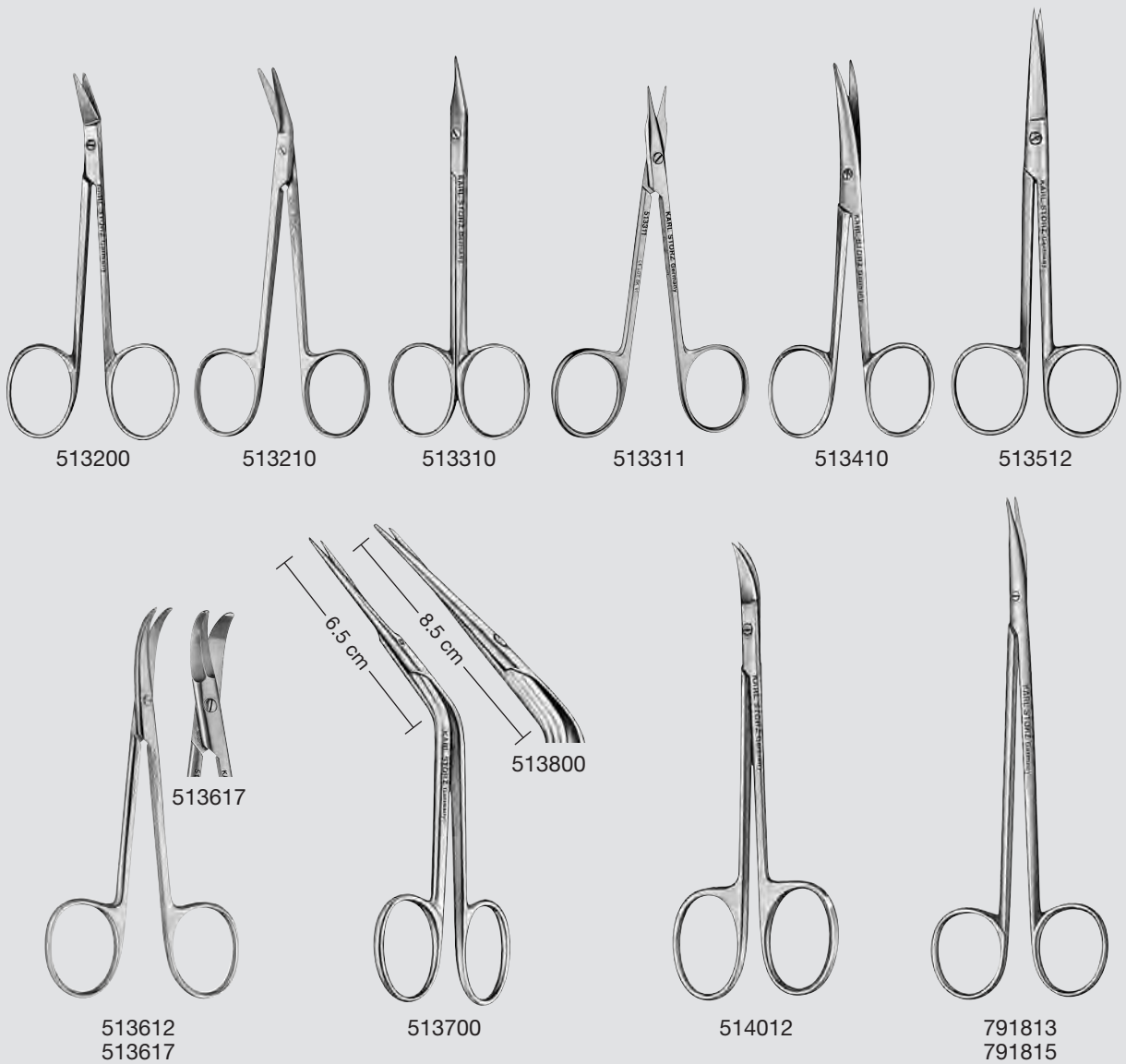
Instruments for Rhinology and Rhinoplasty



- 512111 **Scissors**, with tungsten carbide inserts, blunt/blunt, curved, double-edged grinding, semisharp outer edge for dissection, length 11.5 cm
- 512211 **Scissors**, with tungsten carbide inserts, straight, sharp/sharp, length 11 cm
- 512311 **Same**, curved
- 512511 **Same**, blunt/blunt, curved
- 512614 METZENBAUM **Scissors**, with tungsten carbide inserts, curved, length 14 cm
- 512618 **Same**, length 18 cm
- 512620 METZENBAUM **Scissors**, delicate, with tungsten carbide inserts, curved, length 20 cm
- 512621 **Same**, robust model
- 512718 METZENBAUM **Scissors**, with tungsten carbide inserts, curved, robust model, length 18 cm

Nose

Instruments for Rhinology and Rhinoplasty

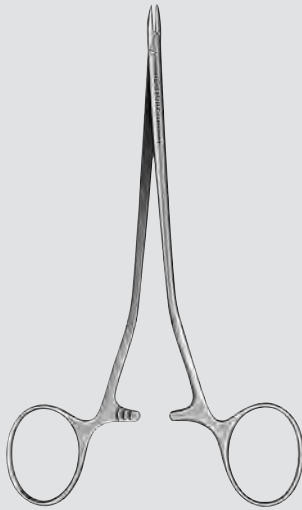


- 513200 **WALTER Scissors**, angled, length 10 cm
- 513210 **Scissors**, angled, blunt, length 10 cm
- 513310 **STEVENS Scissors**, curved, length 10.5 cm
- 513311 **Same**, straight
- 513410 **COTTLE Scissors**, curved, length 10.5 cm
- 513512 **Scissors**, straight, length 12 cm
- 513612 **FOMON Lower Lateral Scissors**, strongly curved, length 12 cm
- 513617 **Same**, length 17 cm

- 513700 **FOMON Dorsal Scissors**, angular, serrated blades, slender, working length 6.5 cm
- 513800 **COTTLE Dorsal Scissors**, angular, serrated blades, robust, working length 8.5 cm
- 514012 **CHADWICK Scissors**, curved, length 12.5 cm
- 791813 **REYNOLDS Scissors**, curved, delicate tips, length 13 cm
- 791815 **Same**, length 15 cm

Nose

Instruments for Rhinology and Rhinoplasty



515017



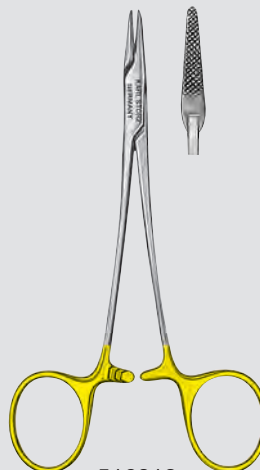
515217



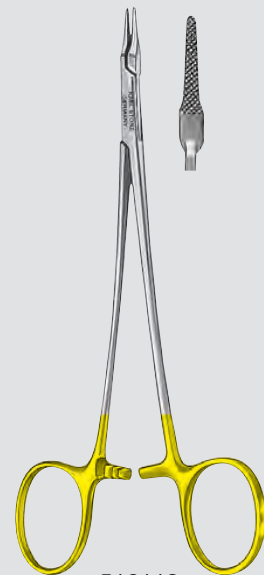
515515



516012



516013
516015



516113
516117

515017 **Needle Holder**, extra delicate, slight spring action, length 17 cm

515217 **Needle Holder**, intranasal, angled 30°, tungsten carbide inserts, length 17 cm

515515 **CRILE-WOOD Needle Holder**, length 15 cm

516012

HALSEY Needle Holder, tungsten carbide inserts, length 12 cm

516013

Needle Holder, tungsten carbide inserts, length 13 cm

516015

Same, length 15 cm

516113

RYDER Needle Holder, tungsten carbide inserts, extra delicate, length 13 cm

516115

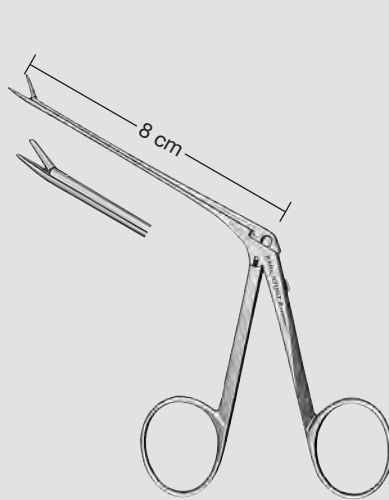
Same, length 15 cm

516117

Same, length 17 cm

Nose

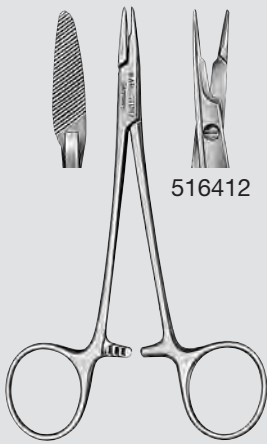
Instruments for Rhinology and Rhinoplasty



517000



517200



516513

516412



517500



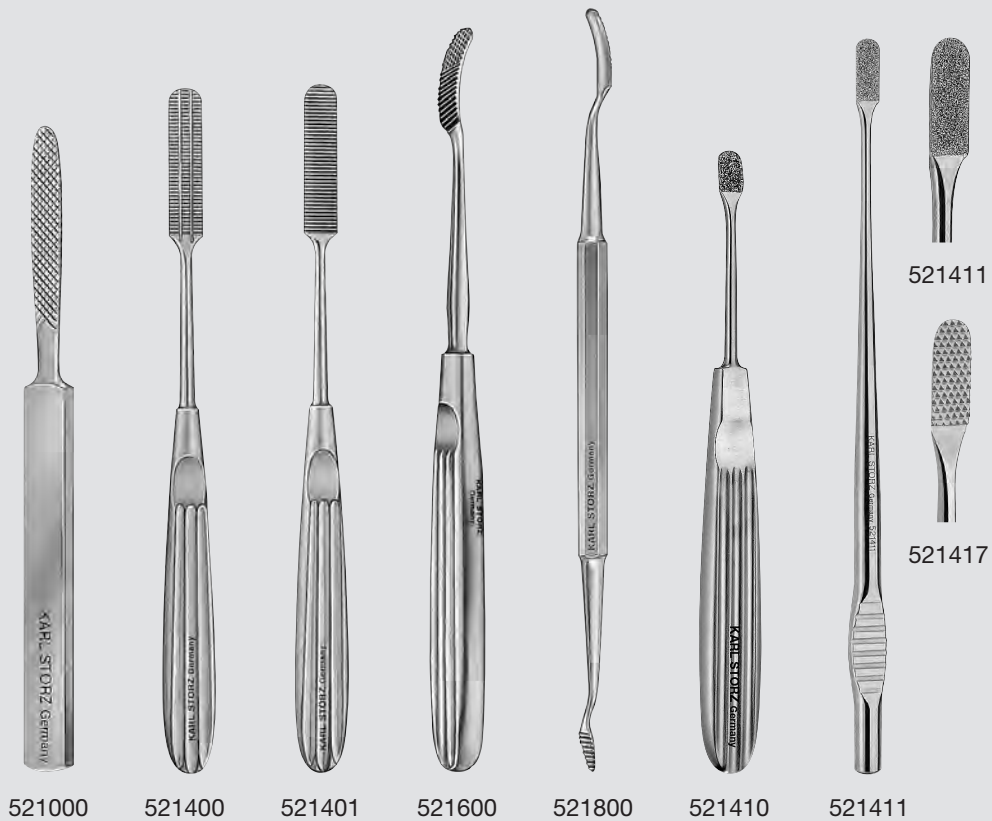
799016

- 516412 **OLSEN-HEGAR Needle Holder and Scissors**, tungsten carbide inserts, delicate, length 12 cm
- 516513 **NEIVERT-MASING Needle Holder**, thumb ring upturned, one jaw with groove, length 13 cm
- 517000 **MASING Needle Holder**, ear forceps shape, intranasal, smooth jaws, working length 8 cm

- 517200 **Needle Holder**, intranasal, handle angled 30°, tungsten carbide inserts, working length 12.5 cm
- 517500 **Wire Twister Ligature Forceps**, with tungsten carbide inserts, length 15 cm
- 799016 **DRAF Micro Needle Holder**, extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm

Nose

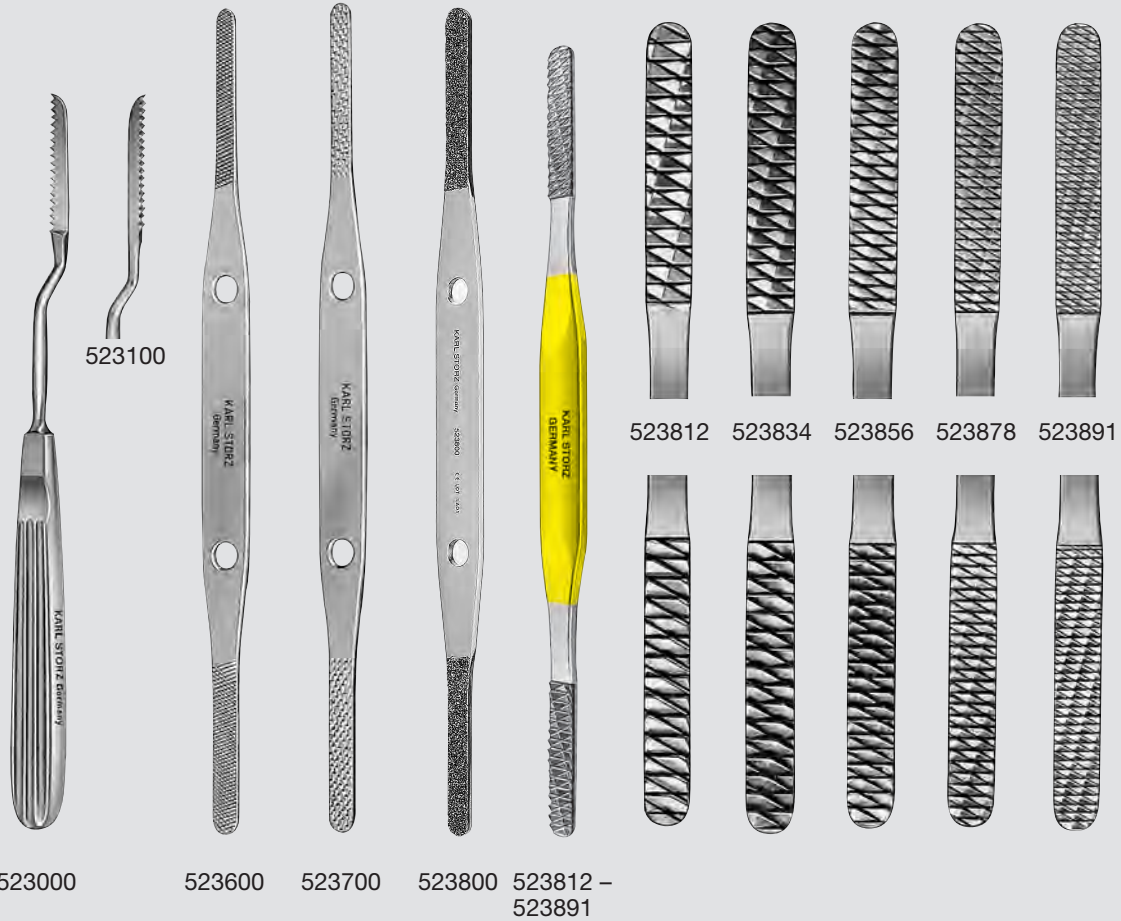
Instruments for Rhinology and Rhinoplasty



- 521000 JOSEPH **Nasal Rasp**, length 17 cm
- 521400 MALTZ **Nasal Rasp**, coarse teeth, cuts with traction, with two grooves, length 18.5 cm
- 521401 **Same**, without grooves
- 521600 AUFRICHT **Glabella Rasp**, curved, cuts with pressure and traction, length 20 cm
- 521800 **Glabella Rasp**, double-ended, cuts with traction, length 20.5 cm
- 521410 RAUNIG **Rasp**, diamond coated, rasp blade 6 x 10 mm, length 16.5 cm
- 521411 BEHRBOHM **Rasp**, diamond coated, rasp blade 6 x 15 mm, length 18 cm
- 521417 BEHRBOHM **Rasp**, crosscut, cuts with traction, rasp blade 6 x 15 mm, length 18 cm

Nose

Instruments for Rhinology and Rhinoplasty



- 523000 JOSEPH **Nasal Saw**, crosswise toothed, bayonet-shaped, right, length 18.5 cm
- 523100 **Same**, left
- 523600 **Nasal Rasp**, double-ended, fine, length 21.5 cm
- 523700 **Same**, coarse (rasp)
- NEW** 523800 **RAUNIG Nasal Rasp**, double-ended, with diamond coating, length 21.5 cm
- 523812 **Nasal Rasp**, tungsten carbide, double-ended, rasp blades Fig. 1 and 2, coarse, length 20.5 cm
- 523834 **Same**, rasp blades Fig. 3 and 4, coarse and medium
- 523856 **Same**, rasp blades Fig. 5 and 6, medium
- 523878 **Same**, rasp blades Fig. 7 and 8, medium and fine
- 523891 **Same**, rasp blades Fig. 9 and 10, fine

Nose

Instruments for Rhinology and Rhinoplasty



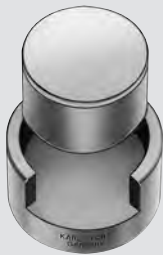
523900



523905



523913



523910
523920



524110 – 524310



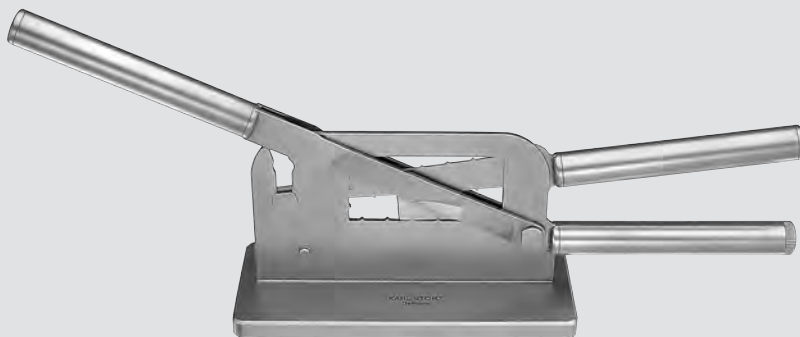
524302

- 523900 COTTLE **Bone Crusher**, with clip, crusher size 5 x 1.5 cm
- NEW** 523905 **Bone Crusher**, large model, with clip, crusher size 5 x 3 cm
- 523910 TOLSDORFF **Bone and Cartilage Crusher**, round, to press pieces of bone up to 4 cm diameter evenly extended in all directions
- 523920 RETTINGER-TOLSDORFF **Same**, with coarse surface
- 523913 **Metal Tray**, for preparing cartilage and bone, with hole for towel forceps, size 10 x 15 cm
- 524110 **Nasal Splint**, DENVER model, aluminium, padded, with self-adhesive underside, small, size 56 x 30 mm, package of 10
- 524210 **Same**, medium, size 64 x 36 mm
- 524310 **Same**, large, size 66 x 45 mm
- 524302 **Nasal Splint**, aluminium, padded, with self-adhesive underside, large, with forehead extension, size 83 x 77 mm, package of 5

Components/Spare Parts see chapter 16

Special Features:

- For reconstructive rhinoplasty with costal cartilage implantation
- Even cutting of cartilage implants at 1 or 2 mm thickness
- Time-savings due to easy preparation of the costal cartilage



523950

523950

SCHMÄL **CARTCUT®** Cartilage Cutter,
for preparation of cartilage pieces

including:

Holding Device

Cleaning Adaptor

Holding-down Clamp

Knife, 1 mm

Knife, 2 mm



Fig. 1: The harvested costal cartilage is placed in the CARTCUT® cartilage cutter ...



Fig. 2: ... and fixated with the "holding-down clamp" handle.



Fig. 3: The "knife" handle is placed in the appropriate holder ...



Figs. 4 and 5: ... and the cartilage is carved by pressing down the "knife" handle.



Fig. 6: The resulting cartilage.

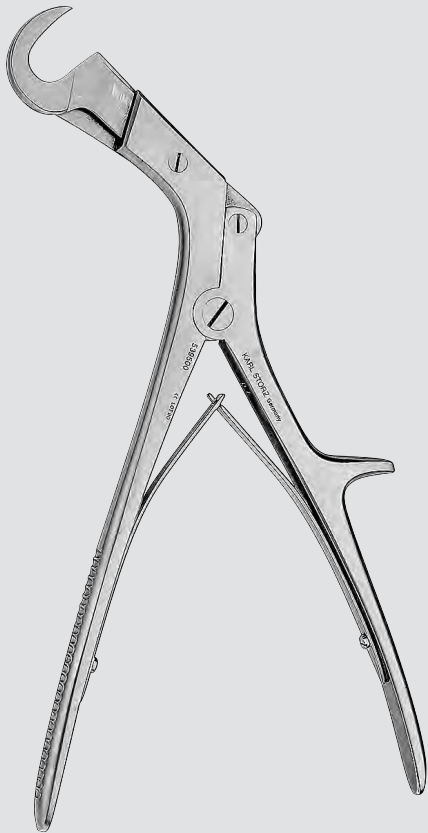
Components/Spare Parts see chapter 16

For storage and processing, Tray 39502 ZH and Silicon Mat 39100 SH are recommended.

Further accessories for cleaning and sterilization see catalog HYGIENE

Nose

Instruments for Cartilage Removal



539500



539510



539520



539521

- 539500 GIERTZ-STILLE **Rib Shears**, length 25 cm
- 539510 FERGUSON **Bone Holding Forceps**, width 12 mm, length 20.5 cm
- 539520 DOYEN **Raspatory**, for adults, curved to right, length 16.5 cm
- 539521 **Same**, curved to left

Nose

Instruments for Rhinology and Rhinoplasty



525500
525505



525510



525520



525800

525500
525505

Rule, stainless steel, flexible, length 20 cm
Same, length 30 cm

525510

CASTROVIEJO Skin Measurement Caliper, measurement range 0 – 15 mm, length 8 cm

525520

BEHRBOHM Caliper, otoplasty, rhinoplasty, reconstructive and aesthetic surgery, with wheel to set and hold the span, as well as a scale for reading the opening interval, measurement range from 5 – 130 mm, caliper arms have 2 removable attachments with measurement points 525523 and 1 holder 525525 for disposable skin marker, **autoclavable**, length 18.5 cm

525800

Elevator, robust model, for the repositioning of nasal fractures, length 17 cm

Nose

Instruments for Rhinology and Rhinoplasty



528800

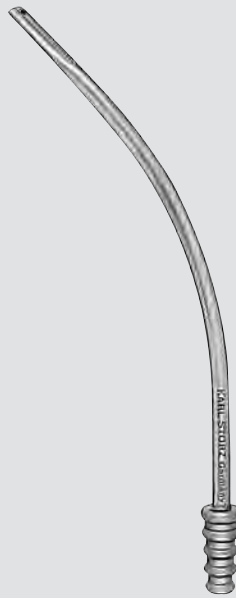


528860

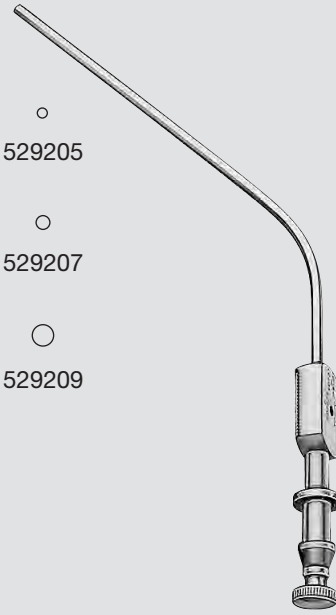
- 528800 **WALSHAM Septum Straightening Forceps**, dismantling, length 21 cm
- 528860 **ASCH Septum Straightening Forceps**, angular, length 22 cm

Nose

Instruments for Rhinology and Rhinoplasty



529105



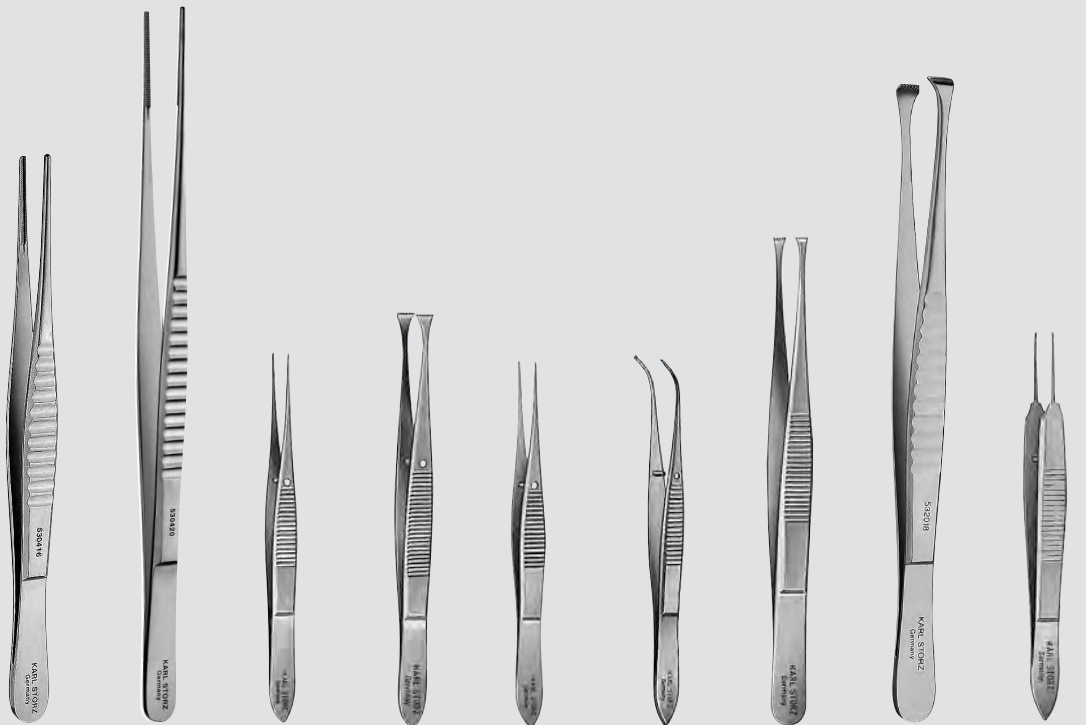
529205 –
529209

- 529205
- 529207
- 529209

- 529105 **Suction Tube**, curved, outer diameter 5 mm, length 16.5 cm
- 529205 **FRAZIER Suction Tube**, with cut-off hole and stylet, angled, outer diameter 5 Fr./1.5 mm, working length 10 cm, total length 17.5 cm
- 529207 **Same**, outer diameter 7 Fr./2 mm
- 529209 **Same**, outer diameter 9 Fr./3 mm

Nose

Instruments for Rhinology and Rhinoplasty

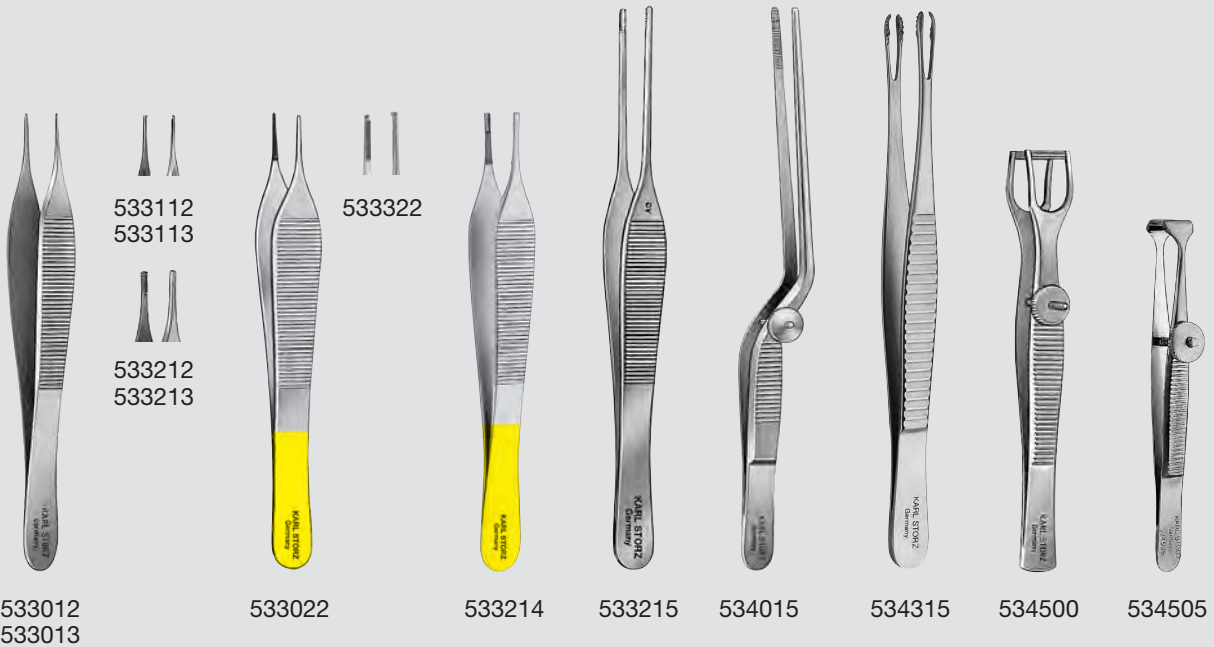


530416 530420 530710 530811 530910 530911 532013 532018 532500
530520

- 530416 “ATRAUMA” **Atraumatic Tissue Forceps**, length 16 cm
- 530420 “ATRAUMA” **Atraumatic Tissue Forceps**, width of jaws 2 mm, length 20 cm
- 530520 **Same**, width of jaws 1.5 mm
- 530710 **Dressing Forceps**, delicate, length 10 cm
- 530811 **Tissue Forceps**, with 7 x 8 fine teeth, length 11 cm
- 530910 **Tissue Forceps**, delicate, straight, 1 x 2 teeth, length 10 cm
- 530911 **Same**, curved
- 532013 **Tissue Forceps**, straight, with 7 x 8 fine teeth, length 13 cm
- NEW** 532018 **STÖVER Tissue Forceps**, straight, with 7 x 8 fine teeth, length 18 cm
- 532500 **CASTROVIEJO Suture Forceps**, 1 x 2 teeth, length 10.5 cm

Nose

Instruments for Rhinology and Rhinoplasty



- 533012 **ADSON Dressing Forceps**, serrated, length 12 cm
- 533013 **Same**, micro-model
- 533022 **ADSON Dressing Forceps**, serrated, tungsten carbide inserts, length 12 cm
- 533112 **ADSON Tissue Forceps**, 1 x 2 teeth, length 12 cm
- 533113 **Same**, micro-model
- 533212 **ADSON-BROWN Tissue Forceps**, atraumatic, fine side grasping teeth, length 12 cm
- 533213 **Same**, micro-model
- 533214 **ADSON-BROWN Tissue Forceps**, atraumatic, fine side grasping teeth, tungsten carbide inserts, width 1.5 mm, length 12 cm
- 533215 **GLANZ Forceps**, atraumatic, fine side grasping teeth, with extra long tips for better view and work in the depth, length 15 cm
- 533322 **ADSON Tissue Forceps**, serrated, 1 x 2 teeth, tungsten carbide inserts, length 12 cm
- 534015 **COTTLE Lower Lateral Forceps**, bayonet-shaped, with set screw, serrated tips and teeth on the inside, length 15 cm
- 534315 **FULEIHAN Forceps**, with teeth and open window, width 5 mm, length 15 cm
- 534500 **COTTLE Columella Clamp**, length 11 cm
- 534505 **Columella Clamp**, for children, width 7.5 mm, length 8.5 cm

Nose

Rhinoplasty – Aesthetic-Plastic Surgery of the Nose

BERGHAUS Recommended Set



488002



488003



488004



488105



488010



488012



488014



488018



488022



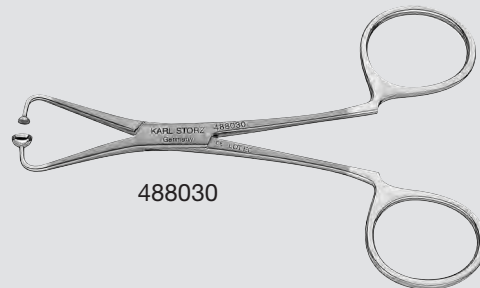
488023



488024



174200



488030



231000

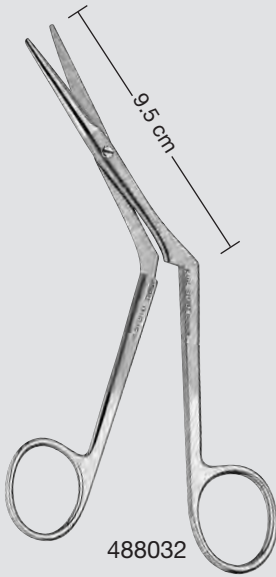
- 488002 COTTLE **Nasal Speculum**, extra slender, without set screw, blade length 35 mm, length 13 cm
- 488003 **Same**, blade length 55 mm
- 488004 **Same**, blade length 75 mm
- 488105 HALLE-TIECK **Nasal Speculum**, for infants, length 13 cm
- 488010 RUBIN **Osteotome**, flat, straight, double-edged grinding, rounded corners, with finger grip for controlled osteotome guidance, width 10 mm, length 16.5 cm
- 488012 **Same**, width 12 mm
- 488014 **Same**, width 14 mm
- 488018 KILLIAN-CLAUS **Septum Chisel**, with V-shaped cutting edge, width 5 mm, length 16.5 cm
- 488022 **Chisel**, with finger button, flat, width 2 mm, length 18 cm
- 488023 **Same**, width 3 mm
- 488024 **Same**, width 4 mm
- 174200 COTTLE **Metal Mallet**, length 18 cm
- 231000 **Hone**, "ARKANSAS" oil stone, wedge-shaped, 10 x 4 cm
- 488030 **Marking Instrument**, for nasal tip, with ball and half cup, straight, length 11 cm

Nose

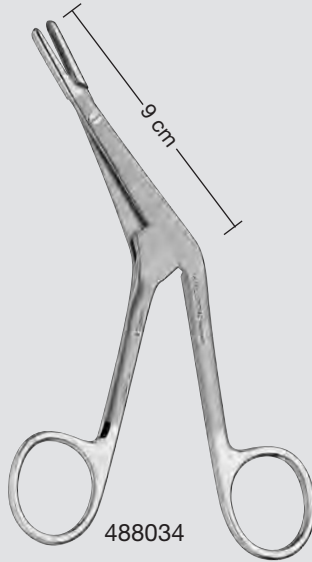
Rhinoplasty – Aesthetic-Plastic Surgery of the Nose

BERGHAUS Recommended Set

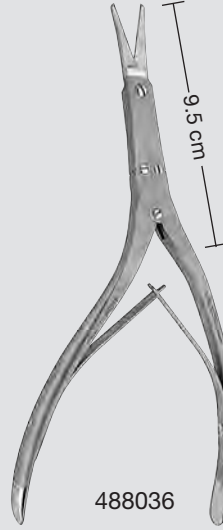
Instruments with special matt finish and high-gloss polished working tips



488032



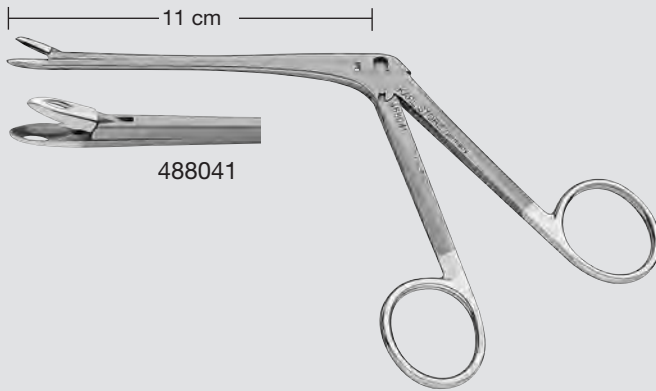
488034



488036



488038



488041

- 488032 HEYMANN **Nasal Scissors**, medium size, working length 9.5 cm
- 488034 CRAIG **Septum Forceps**, straight, working length 9 cm
- 488036 BECKER-CAPLAN **Septum Scissors**, with double joint, serrated, slender, working length 9.5 cm
- 488038 RUBIN **Septum Morcelizer**, with double joint, straight, length 20 cm
- 488041 BLAKESLEY **Nasal Forceps**, slender, straight, size 1, working length 11 cm
- 488044 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, slender, length 16 cm
- 488045 ADSON-BROWN **Forceps**, micro-model, atraumatic, fine side grasping teeth, length 12 cm
- 488046 ADSON **Tissue Forceps**, atraumatic, fine side grasping teeth, length 15 cm
- 488047 ADSON **Tissue Forceps**, 1 x 2 teeth, length 12 cm
- 488049 KILNER **Scissors**, curved, with tungsten carbide inserts, flat end, sharp/sharp, extra delicate, length 13.5 cm
- 488050 KILNER **Scissors**, curved, flat end, blunt/blunt, length 15.5 cm



488044

488045
488047

488046

488049

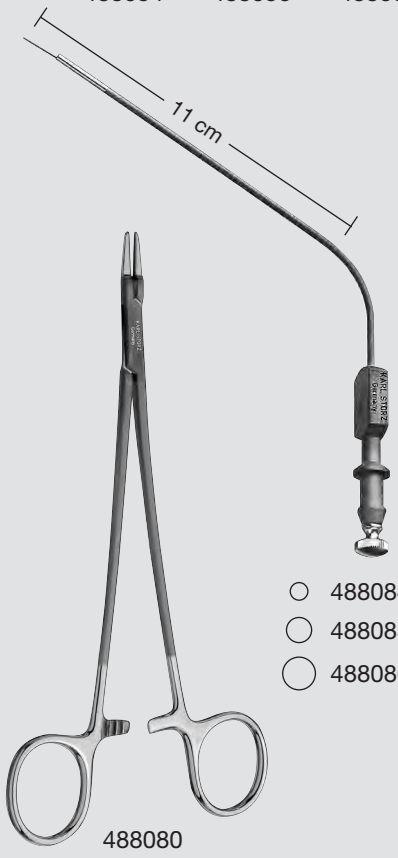
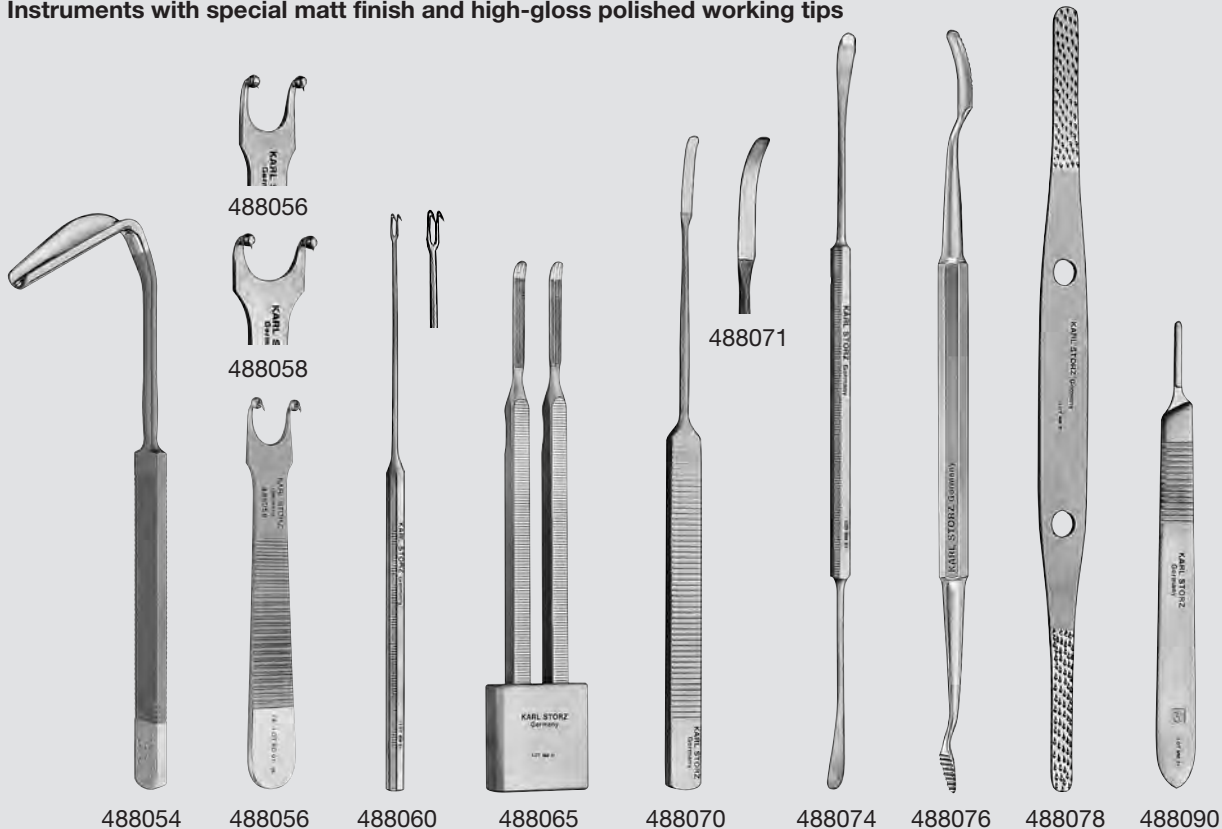
488050

Nose

Rhinoplasty – Aesthetic-Plastic Surgery of the Nose

BERGHAUS Recommended Set

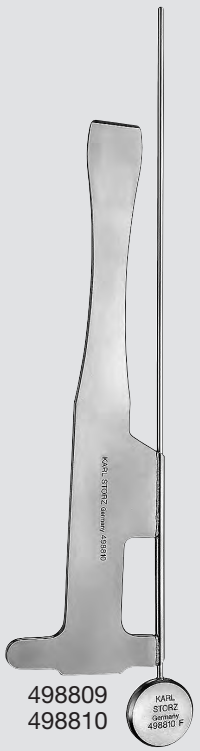
Instruments with special matt finish and high-gloss polished working tips



- 488054 **AUFRICHT Nasal Retractor**, with side protector, length 16.5 cm
- 488056 **KILNER Ala Retractor**, two sharp points with button, width 10 mm, length 8.5 cm
- 488058 **Same**, width 13 mm
- 488060 **Ala Double Hook**, with octagonal handle, with 2 sharp points, strongly curved, width 2 mm, length 16.5 cm
- 488065 **BERGHAUS Ala Guiding Set**, consisting of 2 guiding instruments with distance markings 488065 A and 1 fixation block 488065 B
- 488070 **JOSEPH Raspatory**, slightly curved, width 4 mm, length 17.5 cm
- 488071 **Same**, strongly curved, width 3.4 mm
- 488074 **FREER Elevator**, double-ended, sharp and blunt, length 20 cm
- 488076 **AUFRICHT Glabella Rasp**, double-ended, backward cutting, length 20.5 cm
- 488078 **Nasal Rasp**, double-ended, coarse, length 21.5 cm
- 488080 **RYDER Needle Holder**, tungsten carbide inserts, extra delicate and flat, length 18 cm
- 488084 **FERGUSON Suction Tube**, with cut-off hole and stylet, LUER, outer diameter 8 Fr./2.5 mm, working length 11 cm
- 488085 **Same**, outer diameter 10 Fr./3.5 mm
- 488086 **Same**, outer diameter 12 Fr./4 mm
- 488090 **Scalpel Handle**, no. 3, length 12.5 cm

Nose

Instruments for Rhinoplasty



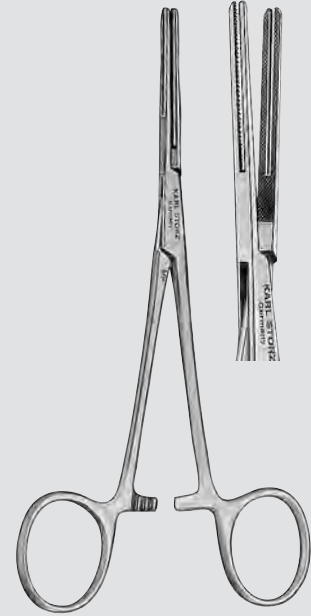
498810 F



498815



498816



498822



498820



498824

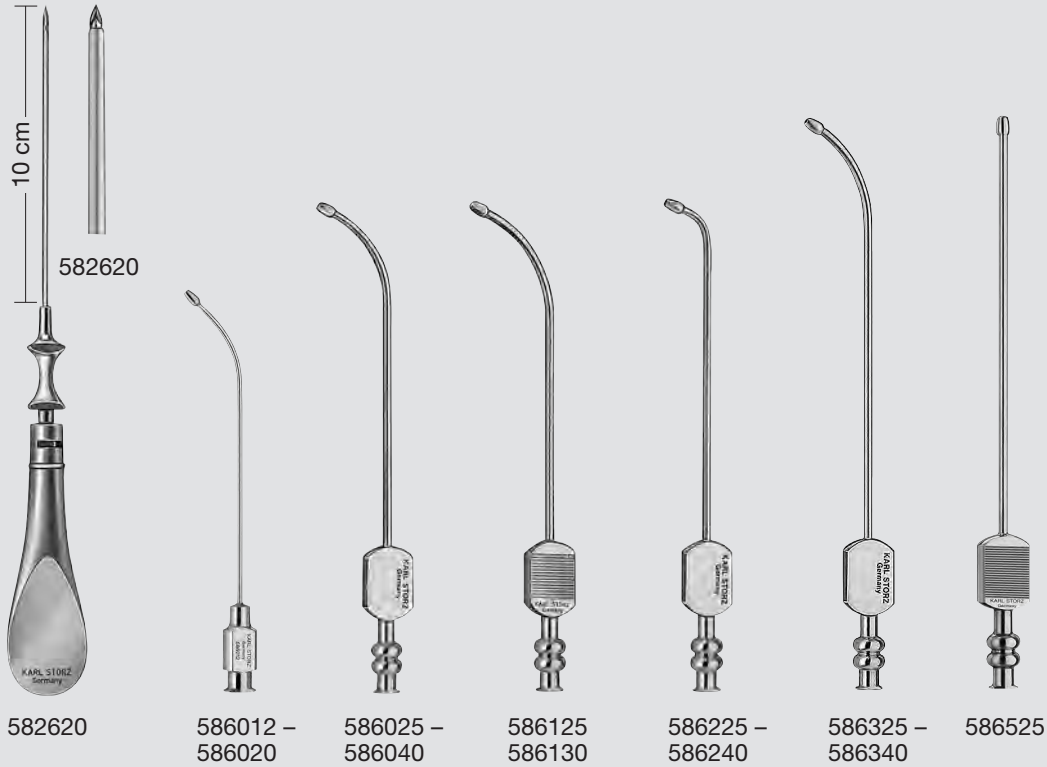
- 498809 **AIACH Osteotome for Hump Removal**, with lateral guiding rod, width 10 mm
- 498810 **Same**, width 13 mm
- 498810 F **Guide Rod**, for 498809 and 498810, only
- 498815 **AIACH Narrow Rasp**, double-ended, medium, width 5 and 3 mm, length 20 cm
- 498816 **AIACH Tenon Mortise Rasp**, double-ended, medium, one side with augmented teeth, other side slotted without teeth, length 20 cm
- 498820 **AIACH Grid**, for preparation of cartilage, graduated, size 90 x 50 mm
- 498822 **AIACH Cartilage Graft Forceps**, for grasping and preparation of cartilage, with slotted jaws, length 15 cm
- 498824 **AIACH Cartilage Crusher**, crusher size 5 x 1.5 cm



**SINOSCOPY, RHINOSCOPY
POSTRHINOSCOPY, FESS
NASAL SINUSES, SKULL BASE**

Nose

Nasal Sinuses



- 582620 LICHTWITZ **Antrum Trocar**, LUER-Lock, with lateral holes, outer diameter 2 mm, working length 10 cm
- 586012 **Antrum Cannula**, LUER-Lock, long curved, with olive, without grip plate, outer diameter 1.2 mm, length 9 cm
- 586015 **Same**, with olive diameter 2.7 mm, outer diameter 1.5 mm
- 586020 **Same**, outer diameter 2 mm
- 586025 v. EICKEN **Antrum Cannula**, LUER-Lock, long curved, outer diameter 2.5 mm, length 12.5 cm
- 586030 **Same**, outer diameter 3 mm
- 586040 **Same**, outer diameter 4 mm
- 586125 v. EICKEN **Antrum Cannula**, LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
- 586130 **Same**, outer diameter 3 mm

- 586225 v. EICKEN **Antrum Cannula**, LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm
- 586230 **Same**, outer diameter 3 mm
- 586240 **Same**, outer diameter 4 mm
- 586325 v. EICKEN **Antrum Cannula**, LUER-Lock, long curved, outer diameter 2.5 mm, length 15 cm
- 586330 **Same**, outer diameter 3 mm
- 586340 **Same**, outer diameter 4 mm
- 586525 **Antrum Cannula**, LUER-Lock, straight, malleable, with serrated grip plate, outer diameter 2.5 mm, working length 15 cm

Nose

Nasal Sinuses – Accessories



600002



600005



600007



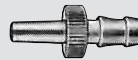
600008



600009



600010



600017



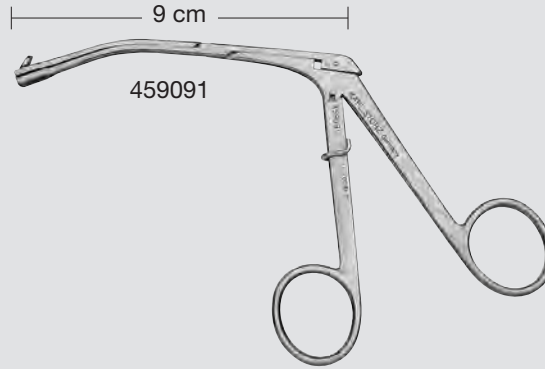
600019

- 600002 **Irrigation Tube**, silicone, **autoclavable**, both ends with LUER-Lock 600007 and 600008, length 30 cm
- 600005 **Record Outer Cone**
- 600007 **LUER-Lock Tube Connector**, male, tube diameter 6 mm
- 600008 **LUER-Lock Tube Connector**, female, tube diameter 6 mm
- 600009 **Silicone Irrigation Tube**, only, length 30 cm
- 600010 **Silicone Tube**, **autoclavable**, outer diameter 5 mm, 1 m coil
- 600017 **LUER Cone**, male
- 600019 **LUER Cone Connector**, male, rotating

Nose

Nasal Sinuses

Punches, working length 9 cm



459090

OSTRUM Pediatric Punch, for resection of uncinat process, upside backward cutting, sheath slightly curved downwards, small size, bite 2.3 x 4 mm, working length 9 cm



459091

OSTRUM Pediatric Punch, for resection of uncinat process, upside backward cutting, sheath slightly curved downwards, large size, bite 3.5 x 4.5 mm, working length 9 cm



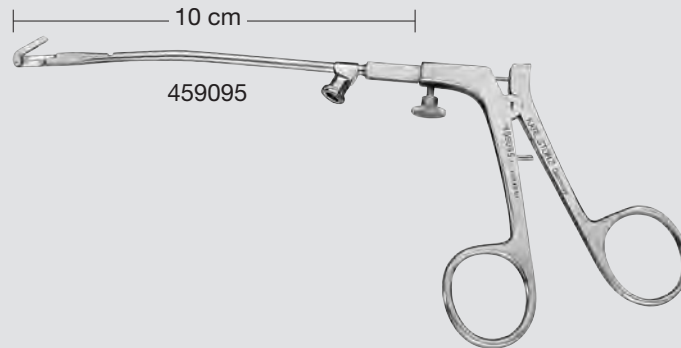
459093

OSTRUM Pediatric Punch, for resection of uncinat process, upside backward cutting, sheath slightly curved upwards, large size, bite 3.5 x 4.5 mm, working length 9 cm

Nose

Nasal Sinuses

Punches and Scissors, working length 9 and 10 cm



459095

LASKAWI **Scissors**, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved, with cleaning connector, working length 10 cm



459096

OSTRUM **Antrum Punch**, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved downwards, with cleaning connector, working length 10 cm



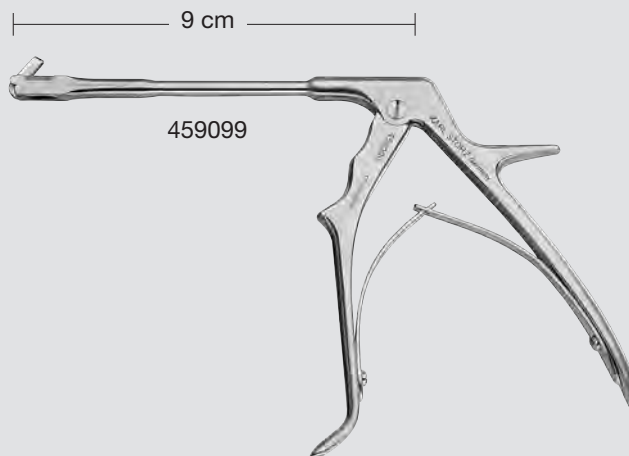
459096 W

OSTRUM-WORMALD **Antrum Punch**, backward cutting, extra slender jaws, sheath 360° rotating, with set screw, sheath slightly curved downwards, with cleaning connector, working length 10 cm



459097

OSTRUM **Punch**, Pediatric, for resection of the uncinat process, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved downwards, small size, bite 2.3 x 4 mm, with cleaning connector, working length 9 cm



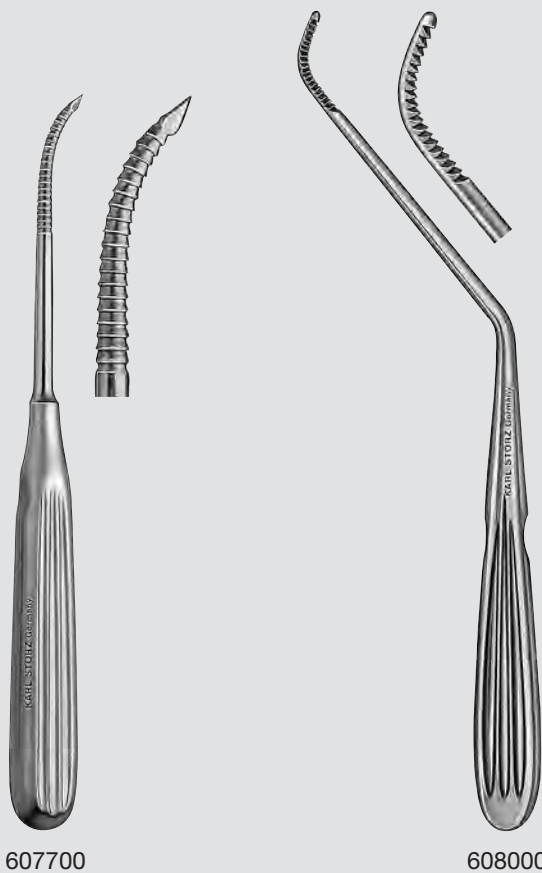
459099



459099

OSTRUM **Antrum Punch**, upside backward cutting, strong model, straight, spring-action handle with horn, working length 9 cm

8-111



607700

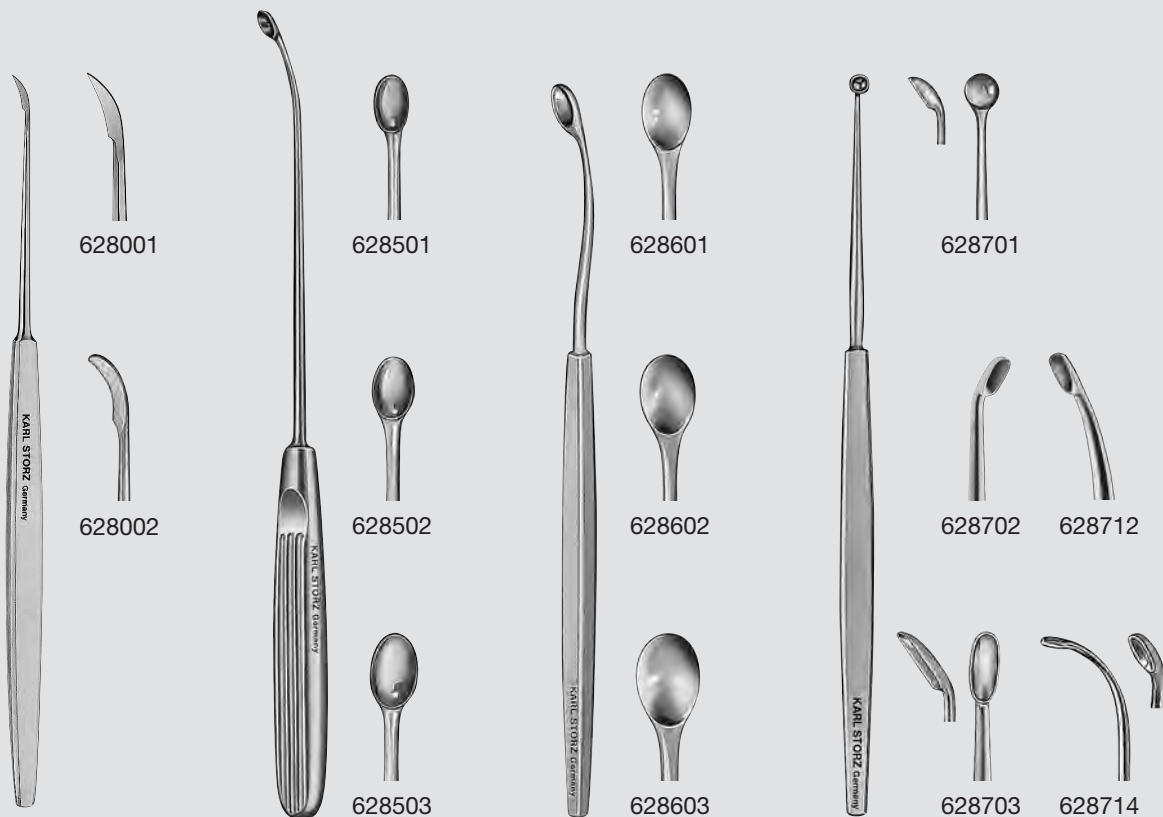
608000

607700 WIENER **Antrum Rasp**, with trocar tip,
length 19.5 cm

608000 WATSON-WILLIAMS **Antrum Rasp**,
blunt, length 23 cm

Nose

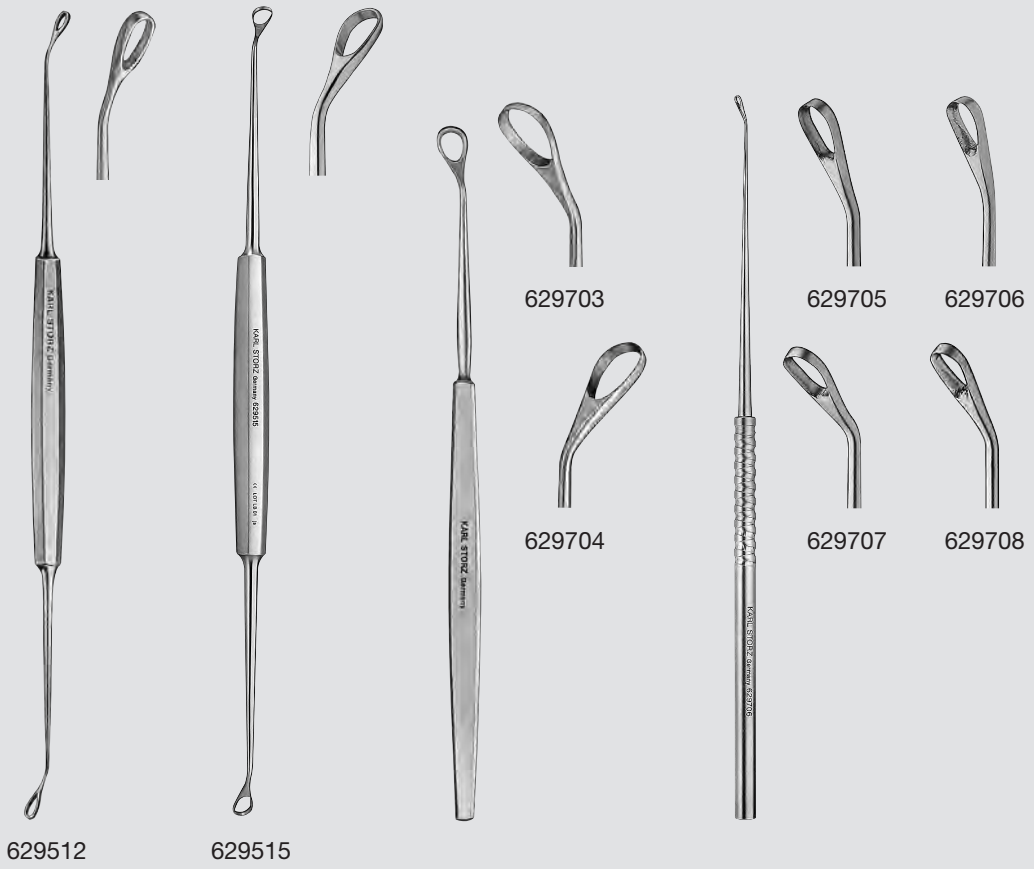
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 628001 **Sickle Knife**, pointed, length 19 cm
- 628002 **Same**, round, double-cutting
- 628501 HALLE **Antrum Curette**, malleable, size 1, length 21 cm
- 628502 **Same**, size 2
- 628503 **Same**, size 3
- 628601 **Antrum Curette**, oval, size 1, length 19 cm
- 628602 **Same**, size 2
- 628603 **Same**, size 3
- 628701 **Antrum Curette**, round, length 19 cm
- 628702 **Same**, oblong, small
- 628703 **Same**, oblong, large
- 628712 KUHN-BOLGER **Frontal Sinus Curette**, 55° curved, oval, forward cutting, length 19 cm
- 628714 **Same**, 90° curved
- 628801 SIEBENMANN **Antrum Curette**, right, length 16.5 cm
- 628802 **Same**, left

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



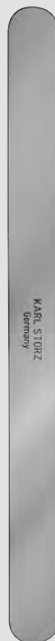
- 629512 HALLE **Antrum Curette**, oval, length 24.5 cm
- 629515 **Same**, 35° and 65°
- 629703 **Antrum Curette**, forward cutting, small, length 19 cm
- 629704 **Same**, backward cutting
- 629705 **Curette**, forward cutting, angled 20°, large, working length 22 cm
- 629706 **Same**, small, working length 20 cm
- 629707 **Curette**, forward cutting, angled 45°, large, working length 22 cm
- 629708 **Same**, small, working length 20 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



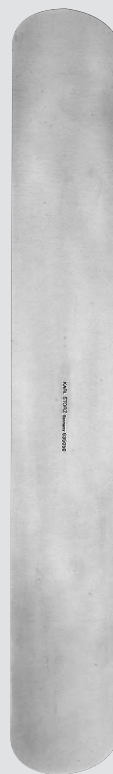
635005



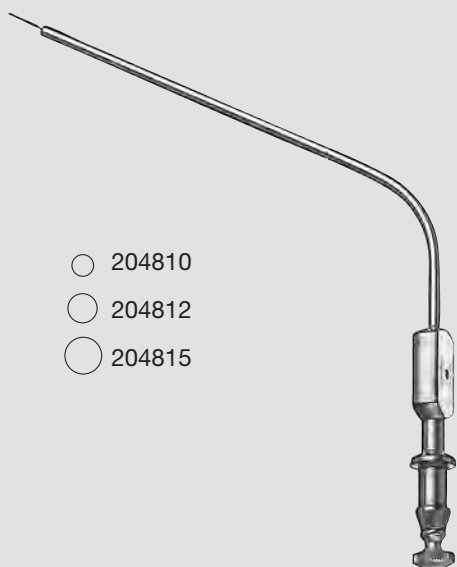
635012 –
635025



635112 –
635122



635050



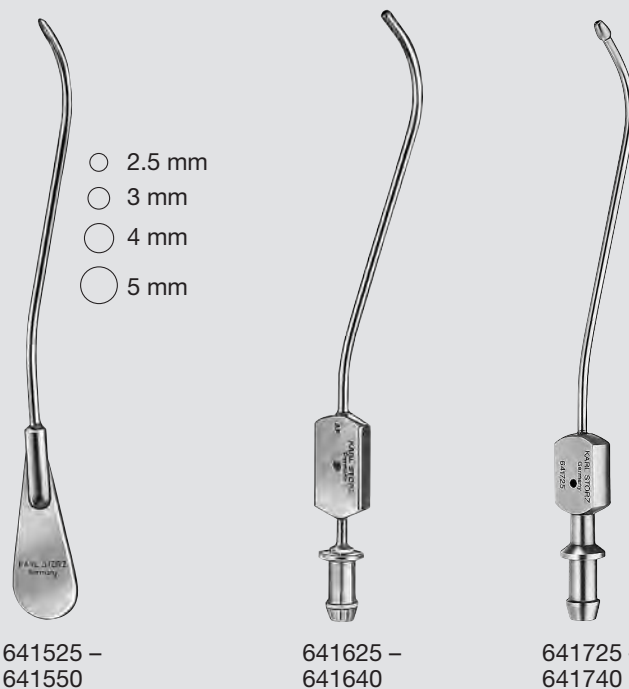
- 204810
- 204812
- 204815

204810 –
204815

- 635005 **BEHRBOHM Orbital Retractor**, width of spatula 8.4 x 16 mm, length 20 cm
- 635012 **Spatula**, malleable, width 12 mm, length 20 cm
- 635017 **Same**, width 17 mm
- 635025 **Same**, width 25 mm
- 635112 **Orbital Spatula**, with double graduation, width 12 mm, length 20 cm
- 635117 **Same**, width 17 mm
- 635122 **Same**, width 22 mm
- 635050 **Spatula**, malleable, width 50 mm, length 30 cm
- 204810 **FERGUSON Suction Tube**, with cut-off hole and stylet, LUER, 10 Fr., working length 11 cm
- 204812 **Same**, 12 Fr.
- 204815 **Same**, 15 Fr.

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

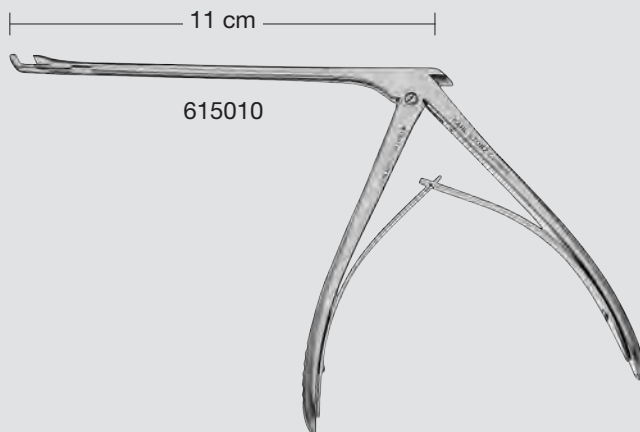


- 641525 RITTER **Frontal Sinus Bougie**, size 1, outer diameter 2.5 mm, length 14.5 cm
- 641530 **Same**, size 2, outer diameter 3 mm
- 641540 **Same**, size 3, outer diameter 4 mm
- 641550 **Same**, size 4, outer diameter 5 mm
- 641625 **Suction Tube**, for frontal sinus, with cut-off hole, LUER, outer diameter 2.5 mm, length 14.5 cm
- 641630 **Same**, outer diameter 3 mm
- 641640 **Same**, outer diameter 4 mm
- 641725 PASQUINI **Suction Tube**, for frontal sinus, with olive end and cut-off-hole, LUER, outer diameter 2.5 mm, length 14.5 cm
- 641730 **Same**, outer diameter 3 mm
- 641740 **Same**, outer diameter 4 mm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

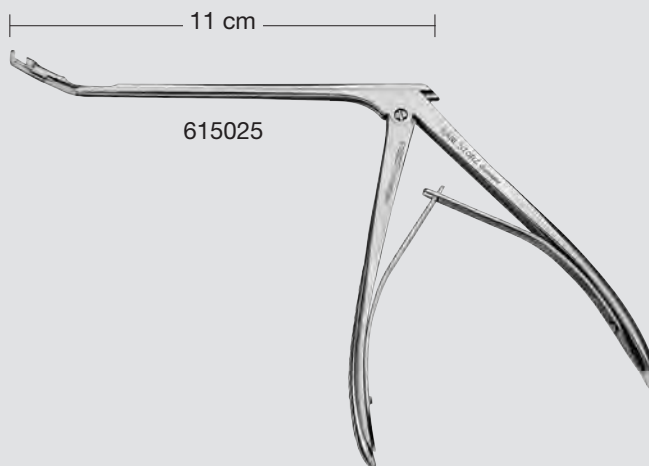
Antrum Punch, working length 11 cm



615010

Antrum Punch, for removal of small bone fragments on natural ostium, rigid, not through-cutting, 65° upbiting forward cutting, size 3.5 x 3.7 mm, working length 11 cm

Sphenoid Punches, working length 11 cm



615015

CASTELNUOVO Sphenoid Punch, rigid, not through-cutting, 65° upbiting forward cutting, size 3.5 x 3.7 mm, fixed jaw extra flat, working length 11 cm



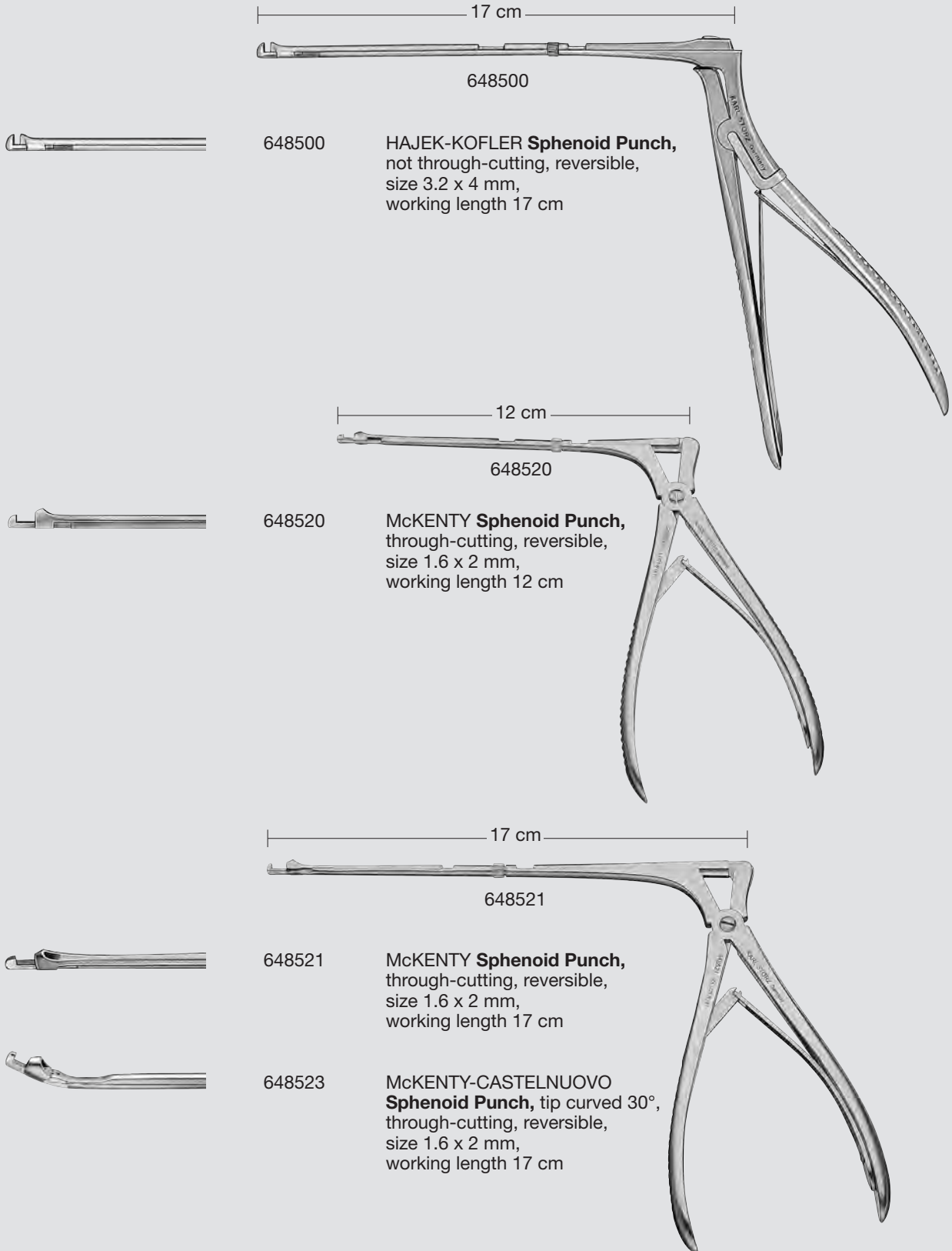
615025

CASTELNUOVO Sphenoid Punch, rigid, 30° upturned, not through-cutting, upbiting forward cutting, fixed jaw extra flat, size 2 x 2 mm, working length 11 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

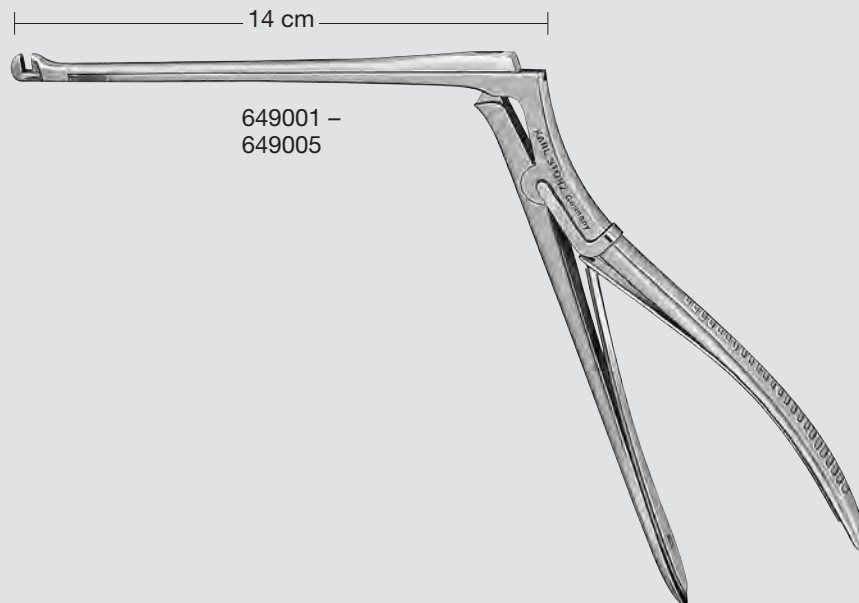
Sphenoid Punches, working lengths 12 and 17 cm



Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Sphenoid Punches, working length 14 cm



649001

HAJEK-KOFLER Bone Punch,
rigid, 90° upbiting, not through-cutting,
size 3.5 x 3.7 mm, working length 14 cm



649002

Same, 90° downbiting



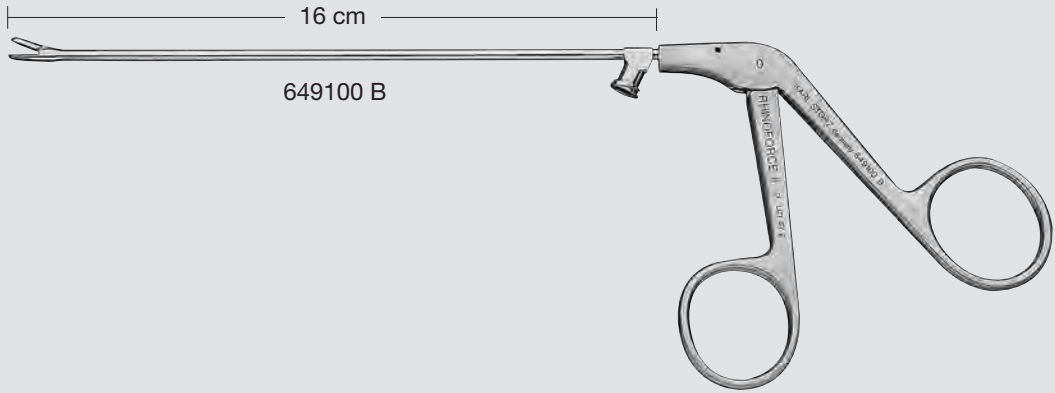
649005

Same, upbiting forward cutting

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

RHINOFORCE® II Ethmoid Forceps, working length 16 cm



649100 B

BLAKESLEY RHINOFORCE® II Ethmoid Forceps, straight, size 0, with cleaning connector, working length 16 cm



649101 B

Same, size 1



649102 B

Same, size 2



649110 B

BLAKESLEY-WILDE RHINOFORCE® II Ethmoid Forceps, 45° curved upwards, size 0, with cleaning connector, working length 16 cm



649111 B

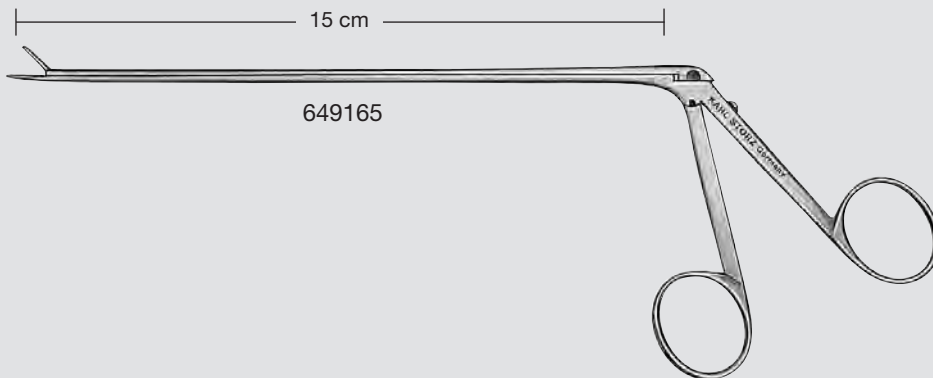
Same, size 1



649123 B

TAKAHASHI RHINOFORCE® II Ethmoid Forceps, spoon size 4 x 10 mm, with cleaning connector, working length 16 cm

Grasping Forceps, working length 15 cm



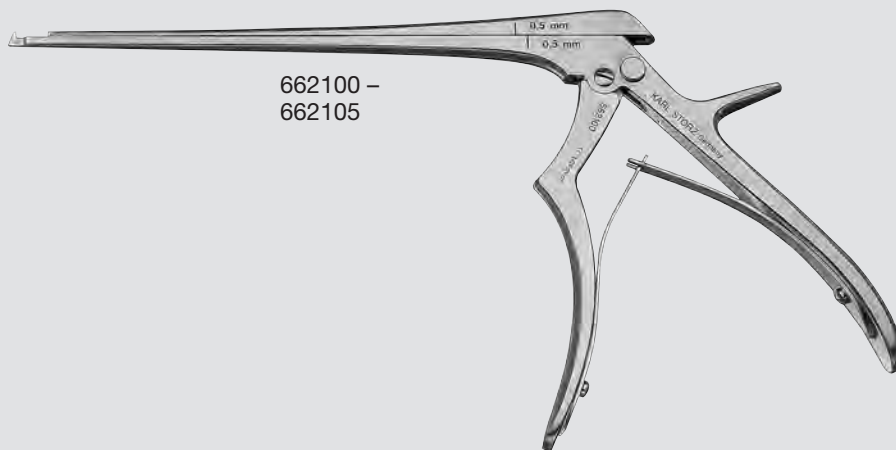
649165

Grasping Forceps, rough serrated, working length 15 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Bone Punches, detachable, working length 12 and 17 cm



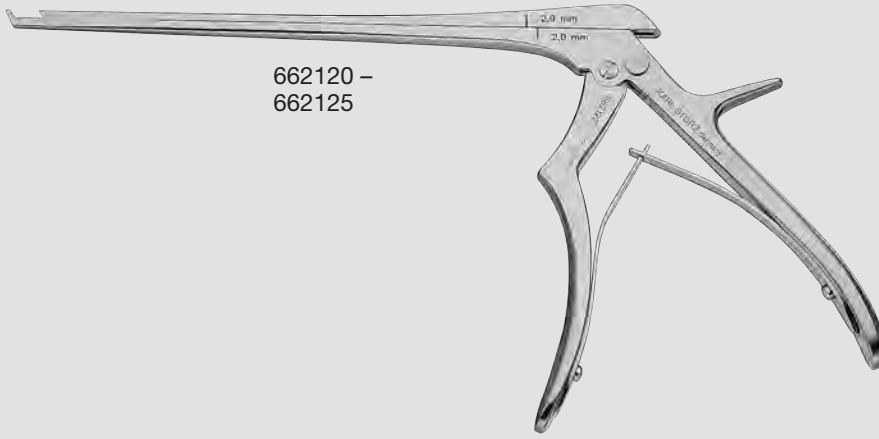
662100 –
662105

| | | | |
|--|--|----------|--|
| | | 662100 | KERRISON Bone Punch , detachable, rigid, 90° upbiting, not through-cutting, size 0.5 mm, working length 17 cm |
| | | 662101 | Same , size 1 mm |
| | | 662101 K | KERRISON Micro Punch , detachable, short model, rigid, 90° upbiting, not through-cutting, size 1 mm, working length 12 cm |
| | | 662102 | KERRISON Bone Punch , detachable, rigid, 90° upbiting, not through-cutting, size 2 mm, working length 17 cm |
| | | 662103 | Same , size 3 mm |
| | | 662104 | Same , size 4 mm |
| | | 662105 | Same , size 5 mm |
| | | 662111 | KERRISON Bone Punch , detachable, rigid, 90° downbiting, not through-cutting, size 1 mm, working length 17 cm |
| | | 662112 | Same , size 2 mm |
| | | 662113 | Same , size 3 mm |
| | | 662114 | Same , size 4 mm |

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Punches, detachable, working length 12 and 17 cm



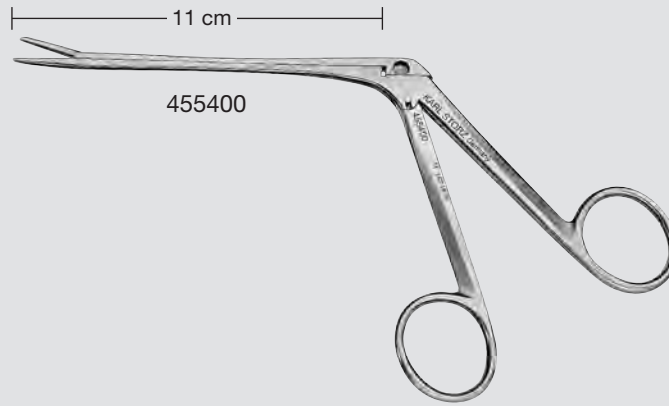
662120 –
662125

| | | | |
|---|--|----------|--|
| □ | | 662120 | KERRISON Bone Punch , detachable, rigid, upbiting 40° forward, size 0.7 mm, working length 17 cm |
| □ | | 662121 | Same , size 1 mm |
| □ | | 662121 K | KERRISON Micro Punch , detachable, short model, rigid, upbiting 55° forward, not through cutting, size 1 mm, working length 12 cm |
| □ | | 662122 | KERRISON Bone Punch , detachable, rigid, upbiting 40° forward, size 2 mm, working length 17 cm |
| □ | | 662123 | Same , size 3 mm |
| □ | | 662124 | Same , size 4 mm |
| □ | | 662125 | Same , size 5 mm |
| □ | | 662131 | KERRISON Bone Punch , detachable, rigid, downbiting 40° forward, size 1 mm, working length 17 cm |
| □ | | 662132 | Same , size 2 mm |
| □ | | 662133 | Same , size 3 mm |
| □ | | 662134 | Same , size 4 mm |

Nose

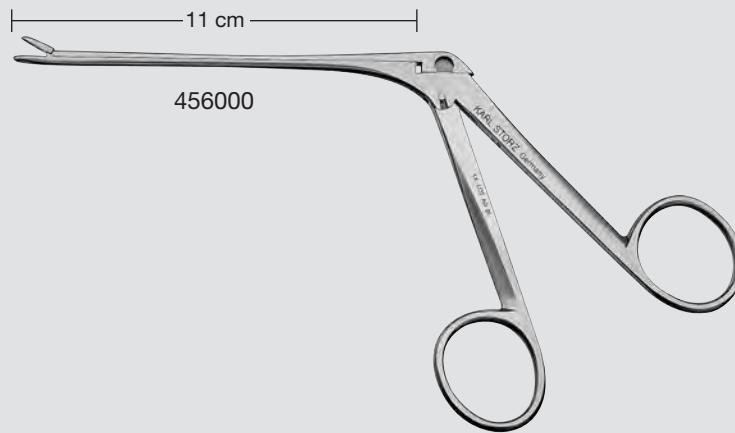
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 11 and 15 cm



455400

NOYES-HARTMANN Nasal Forceps,
serrated jaws, working length 11 cm



456000

BLAKESLEY Nasal Forceps, straight,
size 0, working length 11 cm



456001

Same, size 1



456001 L

Same, size 1, working length 15 cm



456002

Same, size 2



456003

Same, size 3



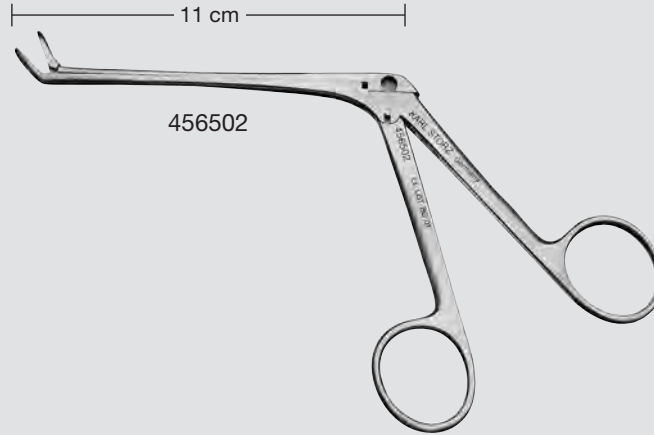
456004

Same, size 4

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 11 cm



456500

BLAKESLEY-WILDE Nasal Forceps,
45° upturned, size 0, working length 11 cm



456501

Same, size 1



456502

Same, size 2



456503

Same, size 3



456504

Same, size 4



456801

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, size 1, working length 11 cm



456802

Same, size 2



456803

Same, size 3



456811

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, slender, long jaws 3.5 x 12 mm,
working length 11 cm



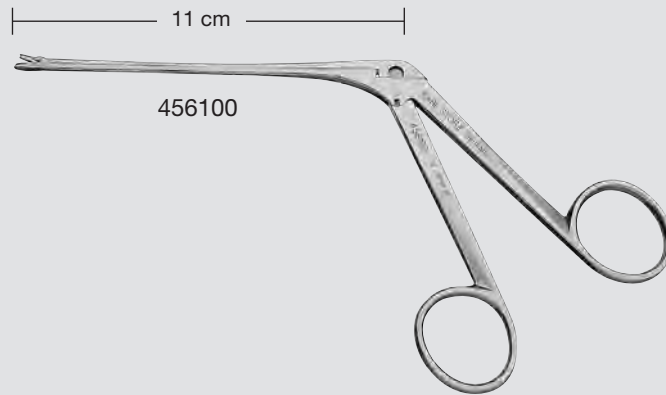
457720

BLAKESLEY-WIGAND Nasal Forceps,
60° upturned, long jaws 6 x 20 mm, rounded
tips, working length 11 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 11 cm



456100

Nasal Forceps, straight, through-cutting,
for a smooth cut, BLAKESLEY shape,
width 2.5 mm, working length 11 cm



456101

Same, width 3.5 mm



456102

Same, width 4.2 mm



456103

Same, width 4.8 mm



456120

Nasal Forceps, 45° upturned, through-cutting,
for a smooth cut, BLAKESLEY shape,
width 2.5 mm, working length 11 cm



456121

Same, width 3.5 mm



456122

Same, width 4.2 mm



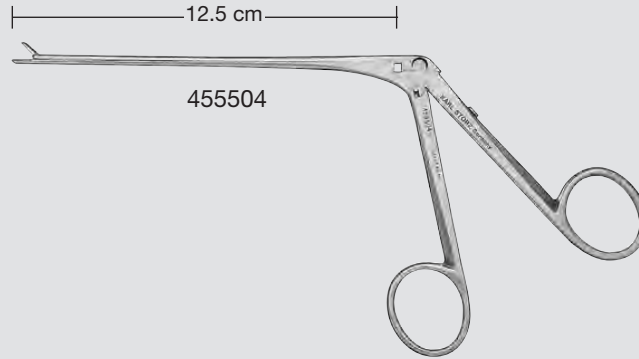
456123

Same, width 4.8 mm

Nose

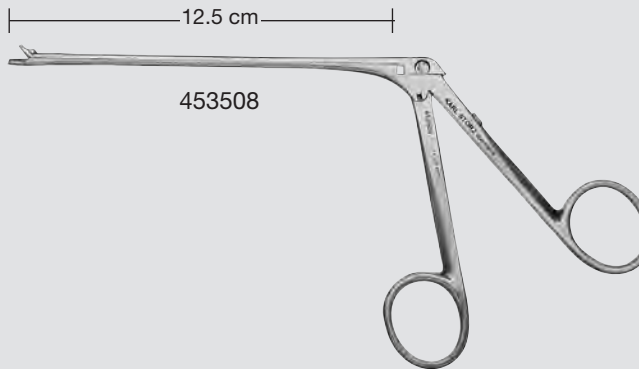
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 10.5 and 12.5 cm



455504

TAKAHASHI Nasal Forceps, straight, delicate, working length 12.5 cm



453508

Nasal Forceps, straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm

453508 K

Same, with foreign body basket



453509

Nasal Forceps, straight, through-cutting, fine, bite 1.25 x 5 mm, working length 12.5 cm



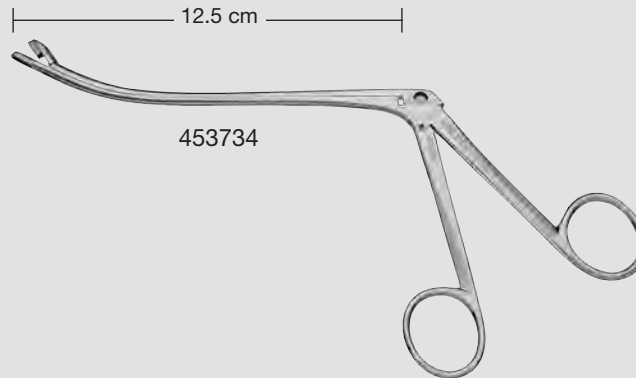
453510

Nasal Forceps, straight, through-cutting, robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 10.5 and 12.5 cm



453710

Nasal Cutting Forceps, 45° upturned, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm



453721

Nasal Forceps, 45° upturned, through-cutting, fine, bite 1.5 x 4 mm, working length 12.5 cm



453722

Nasal Forceps, 45° upturned, through-cutting, robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm



453723

Nasal Forceps, 45° upturned, through-cutting, robust model, medium, bite 2.75 x 6 mm, working length 10.5 cm



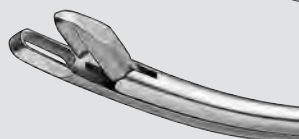
453724

Nasal Forceps, 45° upturned, through-cutting, robust model, large, bite 3 x 8 mm, working length 10.5 cm



453733

Nasal Forceps, through-cutting, fine, shaft end slightly curved upwards, bite 1.5 x 4.5 mm, working length 12.5 cm



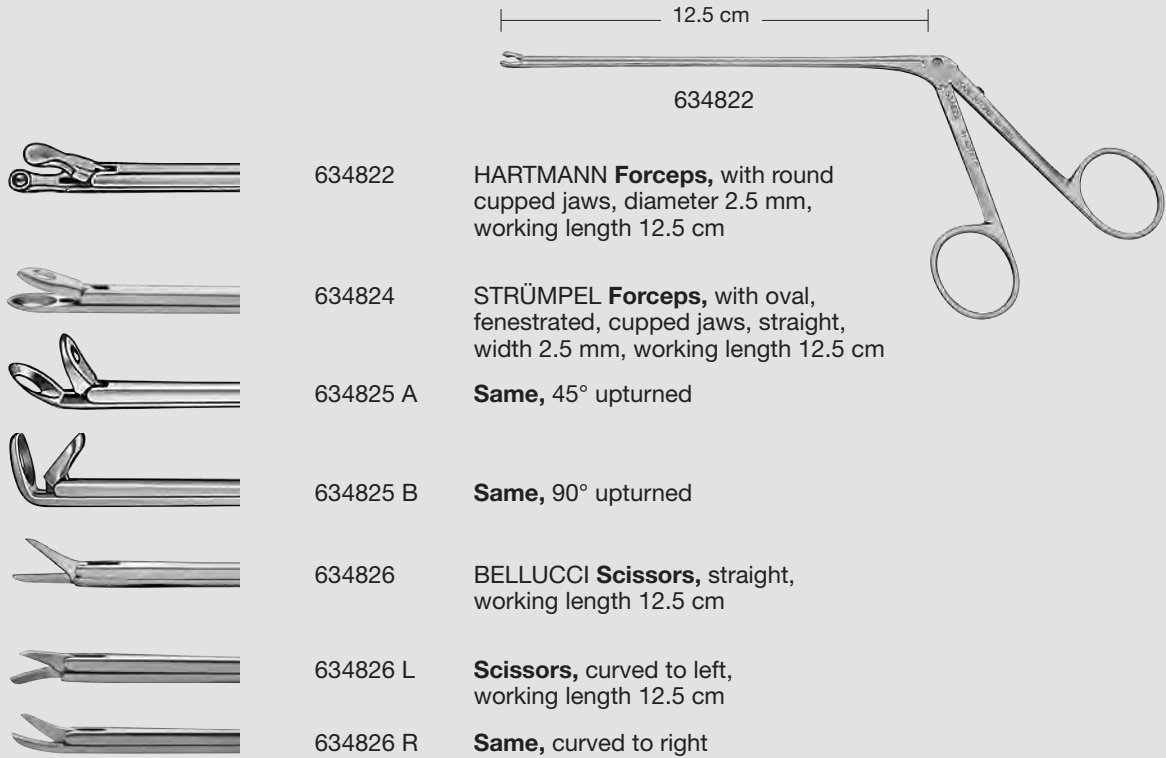
453734

Nasal Forceps, through-cutting, robust model, shaft end slightly curved upwards, working length 12.5 cm

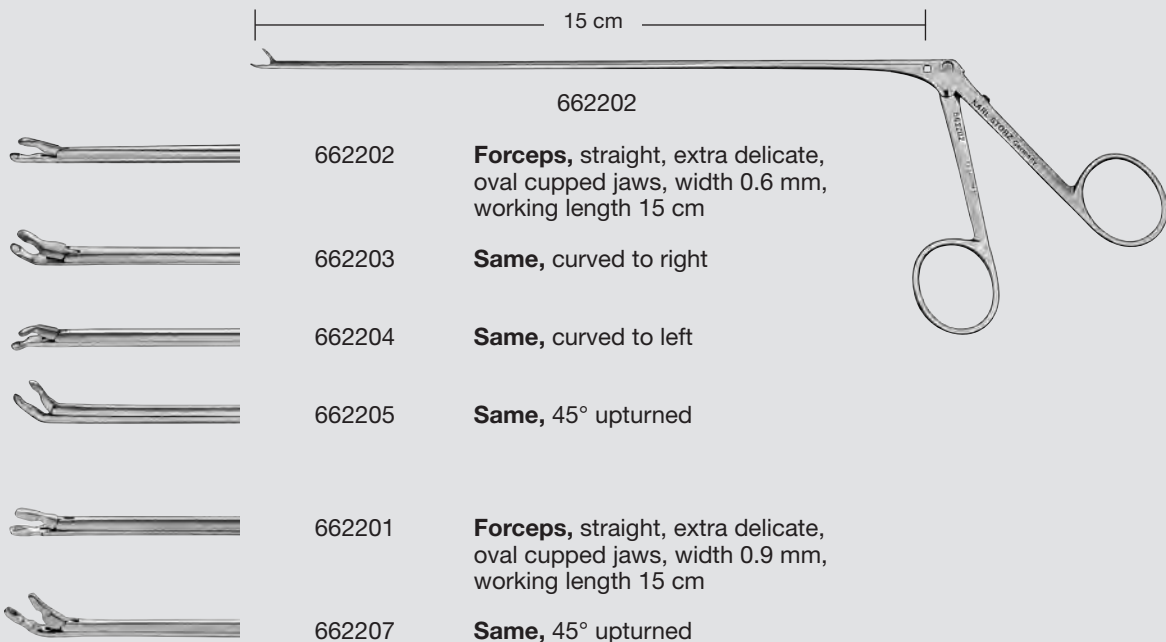
Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Delicate forceps and scissors – particularly suitable for postoperative treatment, working length 12.5 cm



Forceps, working length 15 cm



Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 15 cm

15 cm

662210



662210

Forceps, straight, not through-cutting, extra sharp, with oval, fenestrated cupped jaws, width 1.8 mm, working length 15 cm, color code: one blue handle



662212

Same, curved to right



662213

Same, curved to left



662214

Same, 45° upturned



662215

Same, 90° upturned

15 cm

662221



662221

Forceps, straight, not through-cutting, with oval, fenestrated cupped jaws, width 1.8 mm, working length 15 cm



662223

Same, curved to right



662224

Same, curved to left



662227

Same, 45° upturned



662228

Same, 90° upturned



662211

Forceps, straight, not through-cutting, with oval, fenestrated cupped jaws, width 2.5 mm, working length 15 cm



662217

Same, 45° upturned



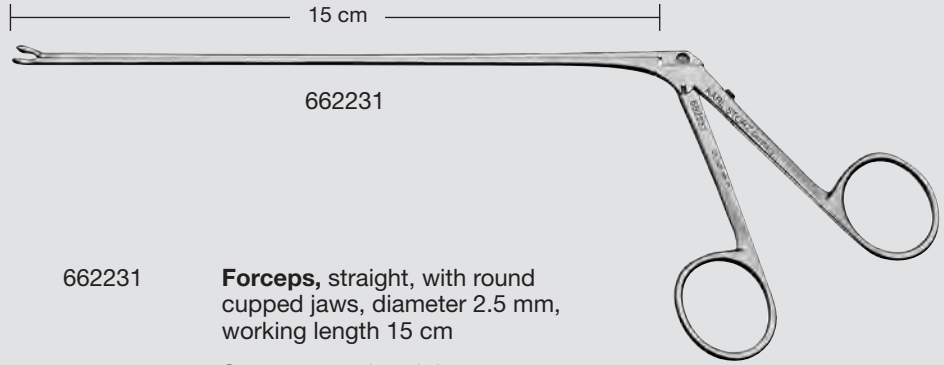
662218

Same, 90° upturned

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 15 cm



662231

Forceps, straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm



662235

Same, curved to right



662236

Same, curved to left



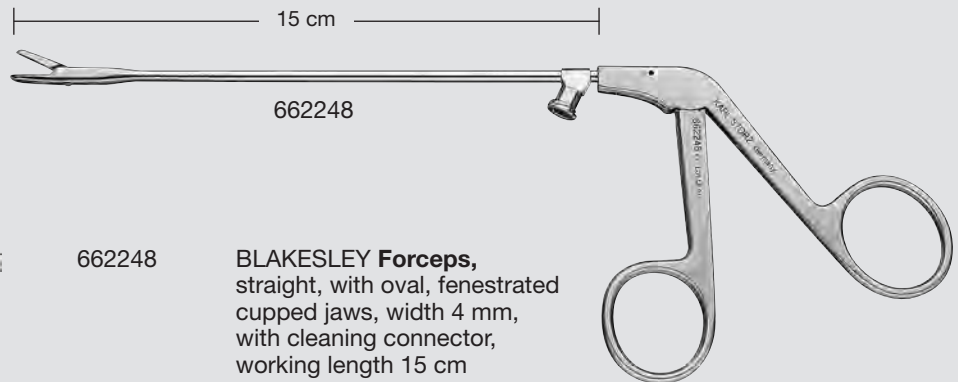
662237

Same, 45° upturned



662241

Forceps, straight, with round cupped jaws, diameter 4 mm, working length 15 cm



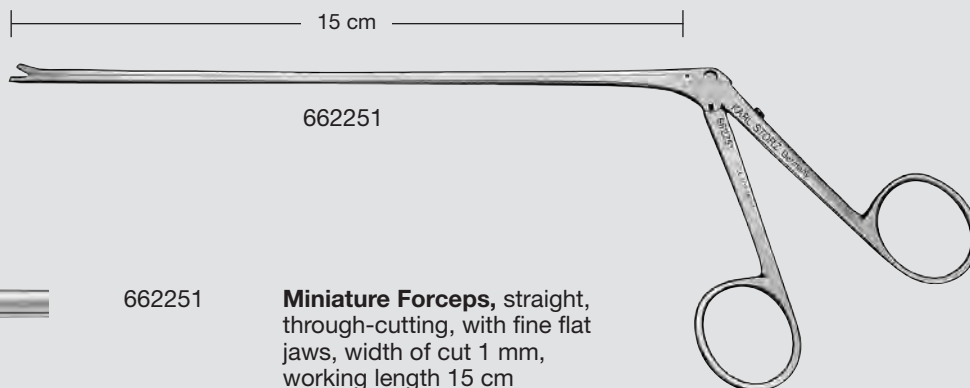
662248

BLAKESLEY Forceps, straight, with oval, fenestrated cupped jaws, width 4 mm, with cleaning connector, working length 15 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Miniature Forceps, working length 15 cm



662251

Miniature Forceps, straight, through-cutting, with fine flat jaws, width of cut 1 mm, working length 15 cm



662255

Same, curved to right



662256

Same, curved to left



662257

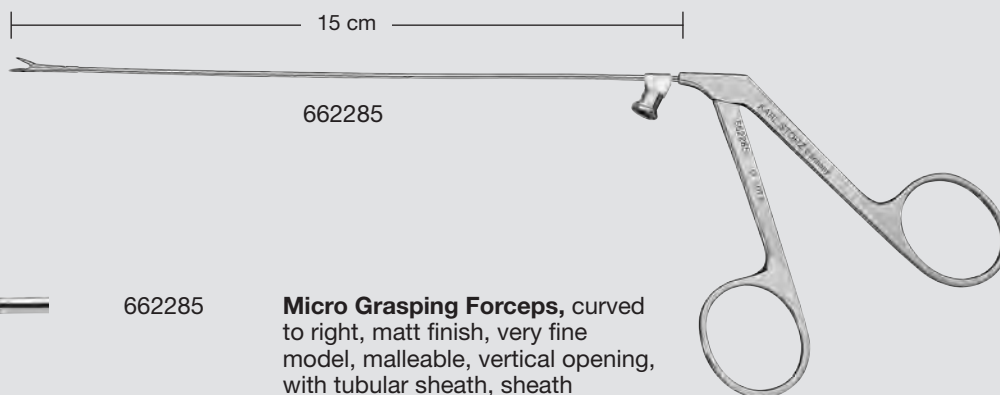
Same, curved upwards



662271

Grasping Forceps, straight, fine-serrated, working length 15 cm

Micro Grasping Forceps, working length 15 cm



662285

Micro Grasping Forceps, curved to right, matt finish, very fine model, malleable, vertical opening, with tubular sheath, sheath diameter 1.5 mm, with cleaning connector, working length 15 cm



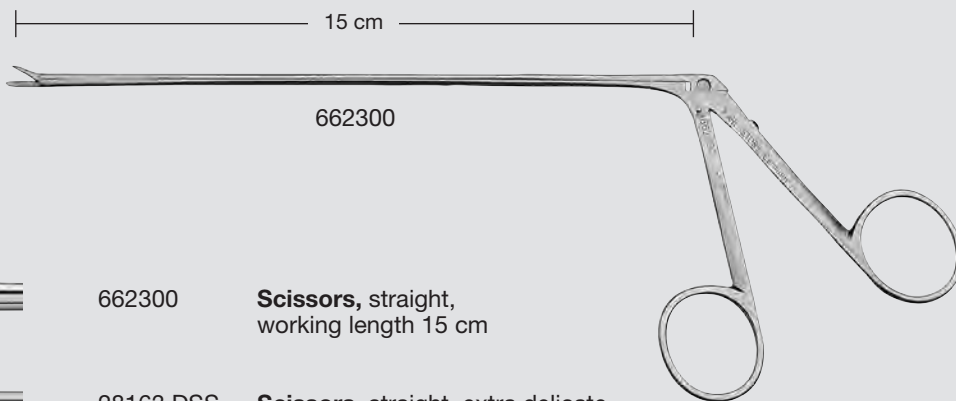
662286

Same, curved to left

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Scissors, working length 15 cm



662300

Scissors, straight,
working length 15 cm



28163 DSS

Scissors, straight, extra delicate,
working length 15 cm



662304

Same, curved to right, extra delicate



662305

Same, curved to left, extra delicate



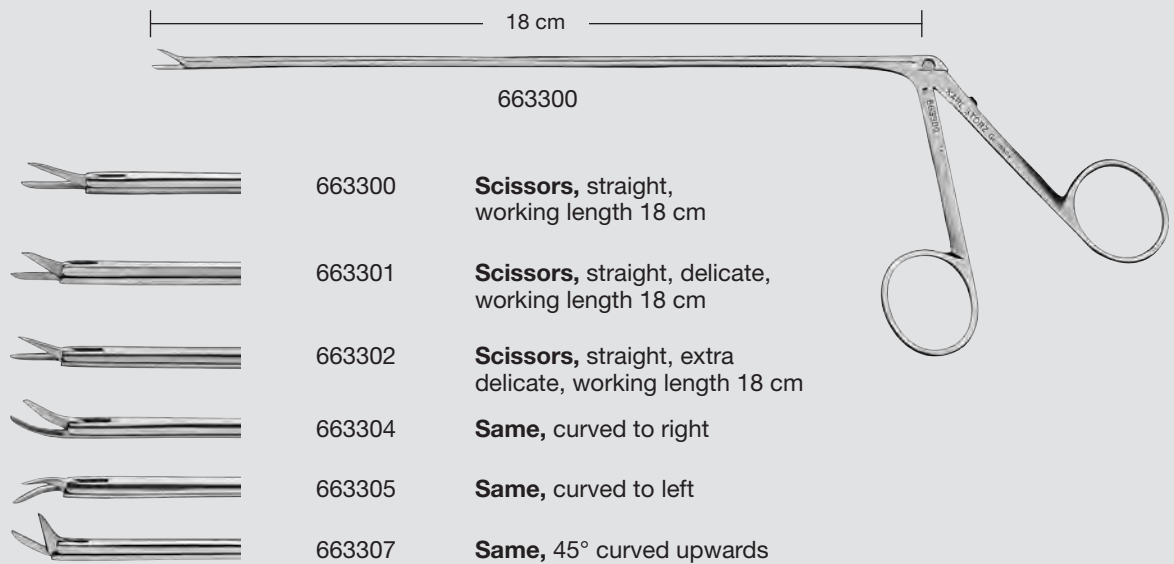
662307

Same, 45° curved upwards, extra delicate

Nose

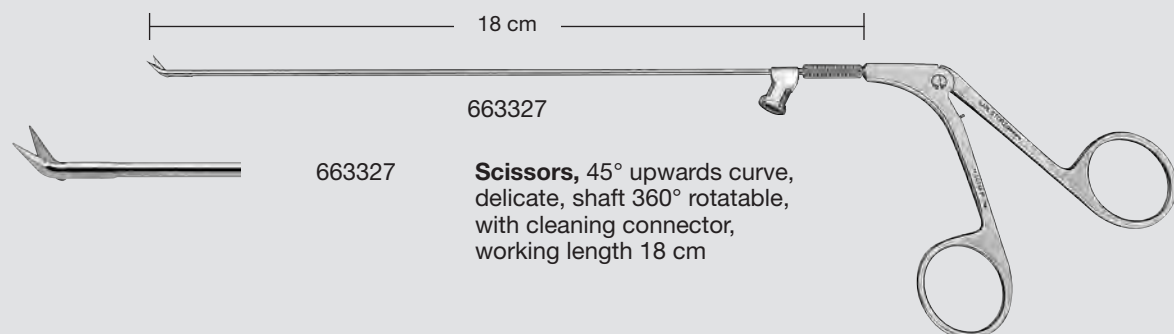
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Scissors, working length 18 cm



663300

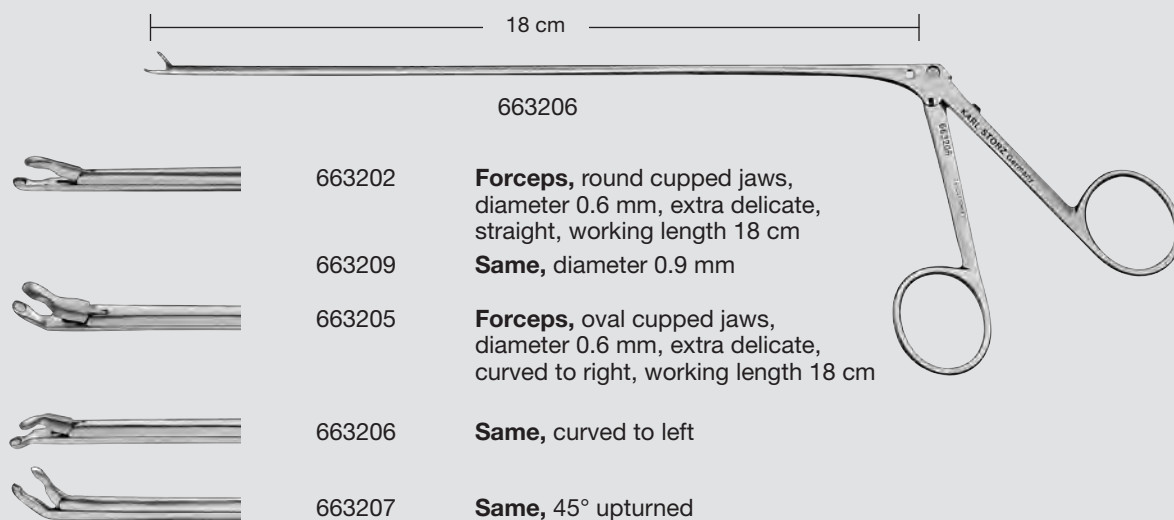
- 663300 **Scissors**, straight, working length 18 cm
- 663301 **Scissors**, straight, delicate, working length 18 cm
- 663302 **Scissors**, straight, extra delicate, working length 18 cm
- 663304 **Same**, curved to right
- 663305 **Same**, curved to left
- 663307 **Same**, 45° curved upwards



663327

- 663327 **Scissors**, 45° upwards curve, delicate, shaft 360° rotatable, with cleaning connector, working length 18 cm

Forceps, working length 18 cm



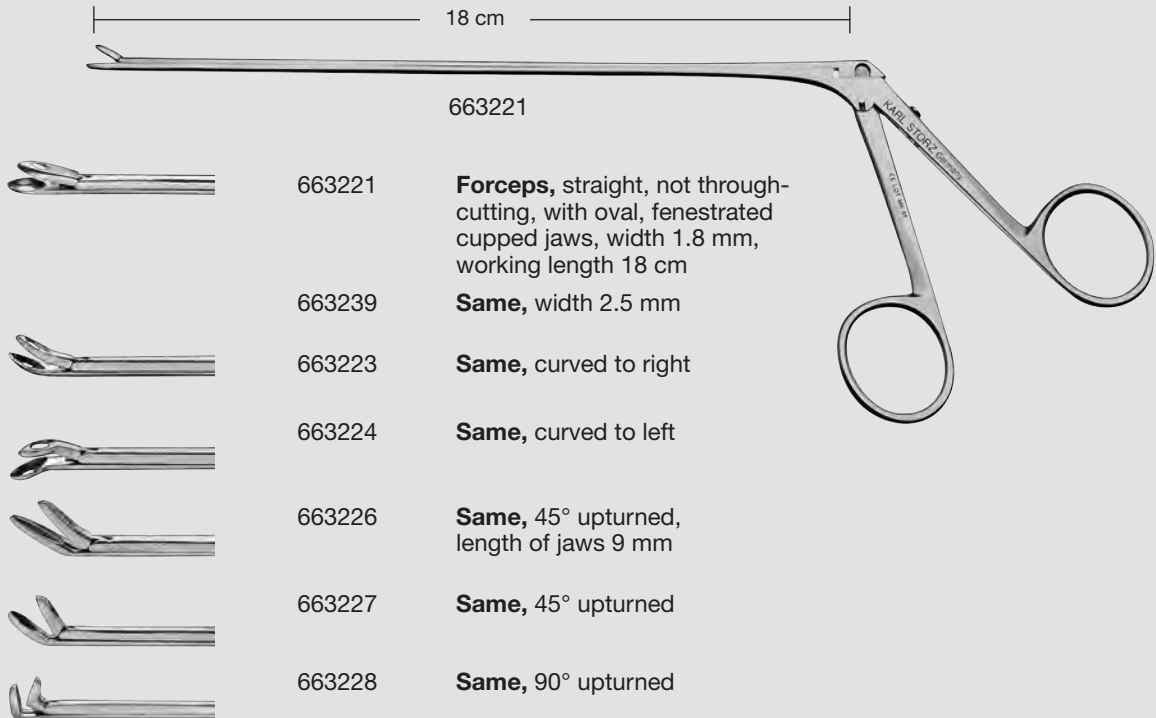
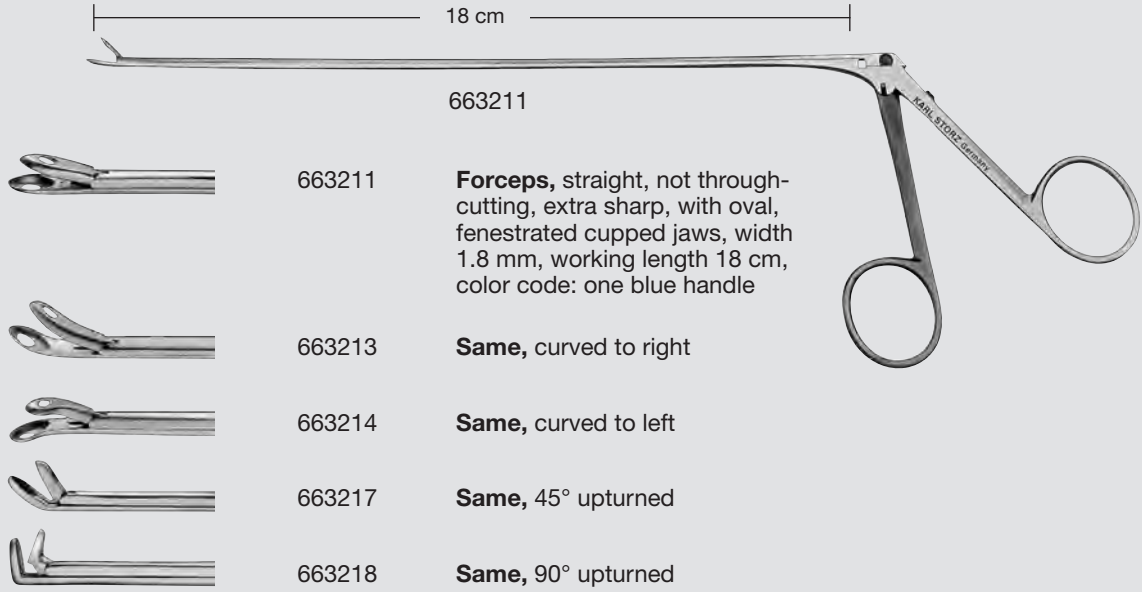
663206

- 663202 **Forceps**, round cupped jaws, diameter 0.6 mm, extra delicate, straight, working length 18 cm
- 663209 **Same**, diameter 0.9 mm
- 663205 **Forceps**, oval cupped jaws, diameter 0.6 mm, extra delicate, curved to right, working length 18 cm
- 663206 **Same**, curved to left
- 663207 **Same**, 45° upturned

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

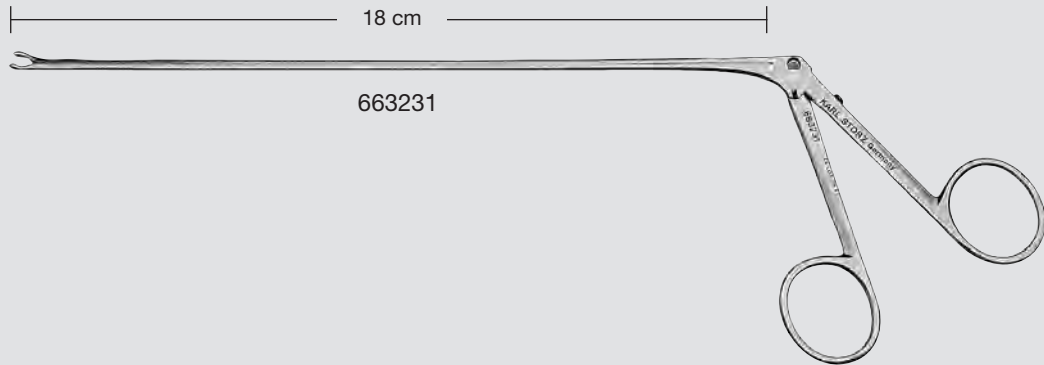
Forceps, working length 18 cm



Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 18 cm



663231

Forceps, straight, with round cupped jaws, diameter 2.5 mm, working length 18 cm



663235

Same, curved to right



663236

Same, curved to left



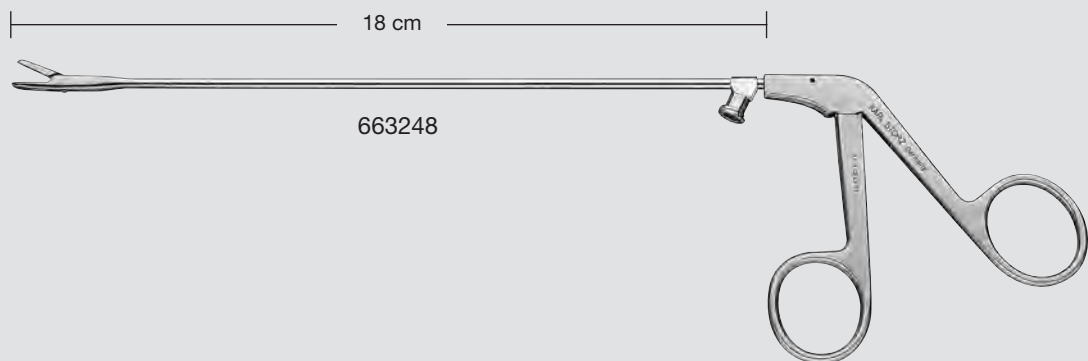
663237

Same, 45° upturned



663241

Same, diameter 4 mm



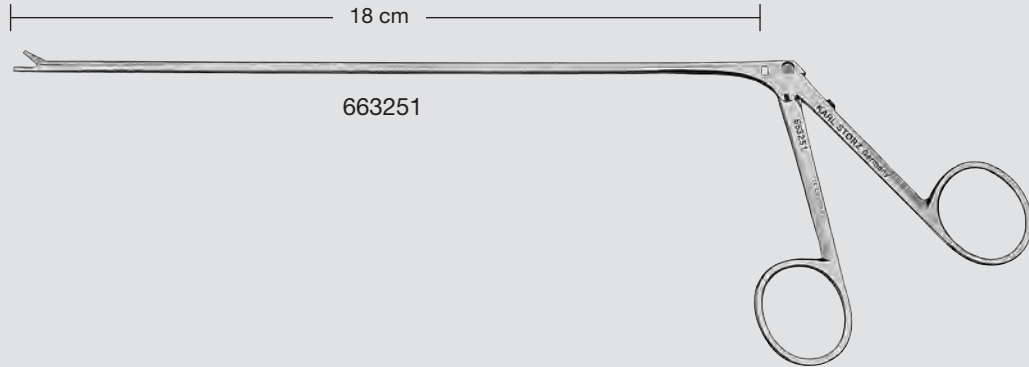
663248

BLAKESLEY Forceps, straight, with oval, fenestrated cupped jaws, width 4 mm, with cleaning connector, working length 18 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 18 cm



663251

Miniature Forceps, straight, through-cutting, with fine flat jaws, width of cut 1 mm, working length 18 cm



663255

Same, curved to right



663256

Same, curved to left



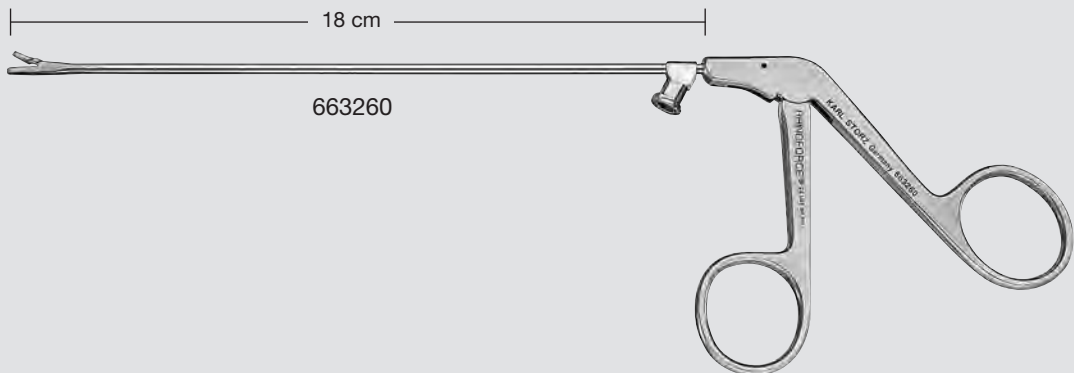
663257

Same, curved upwards



663271

Grasping Forceps, straight, fine-serrated, working length 18 cm



663260

GRÜNWARD-HENKE **RHINOFORCE® II** Forceps, straight, through-cutting, for a smooth cut, jaws 3 mm, BLAKESLEY shape, size 0, with cleaning connector, working length 18 cm

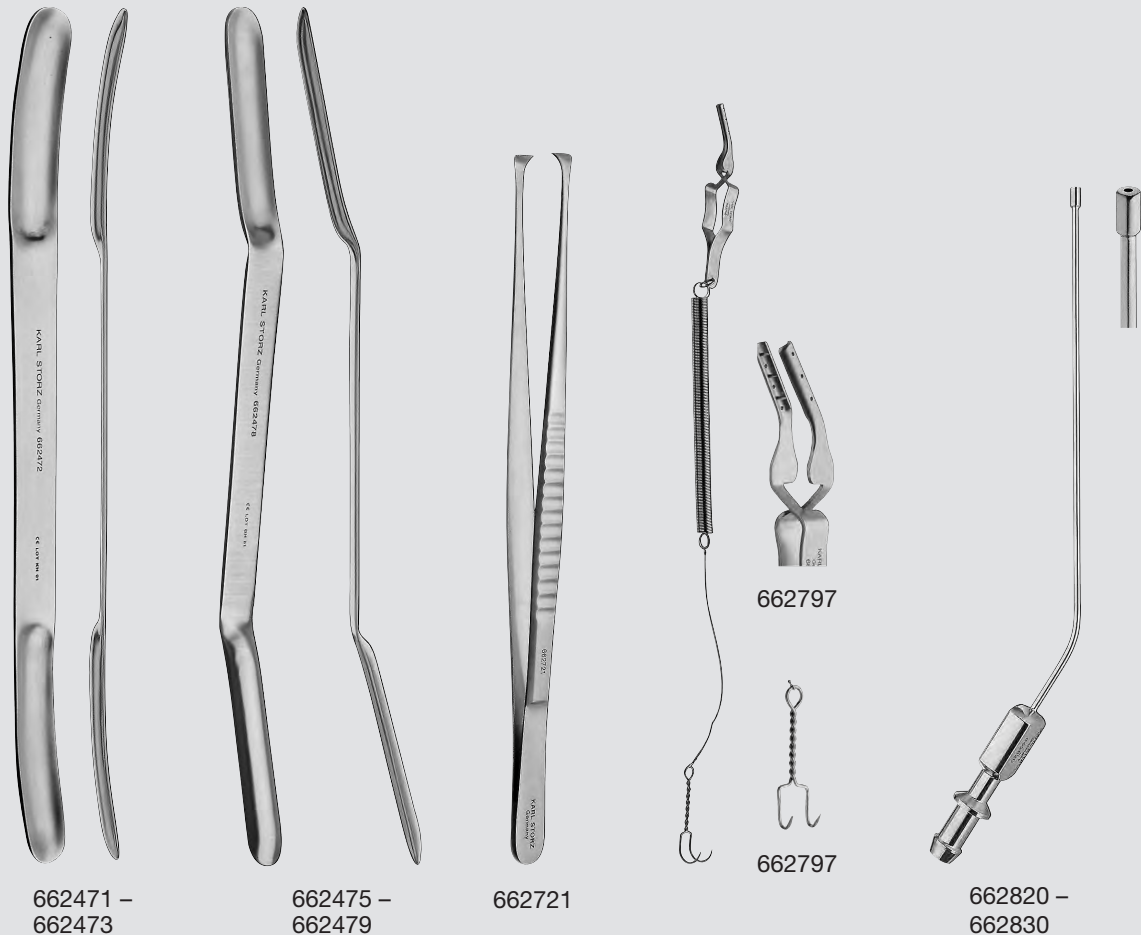


663263

Same, 45° upturned

Nose

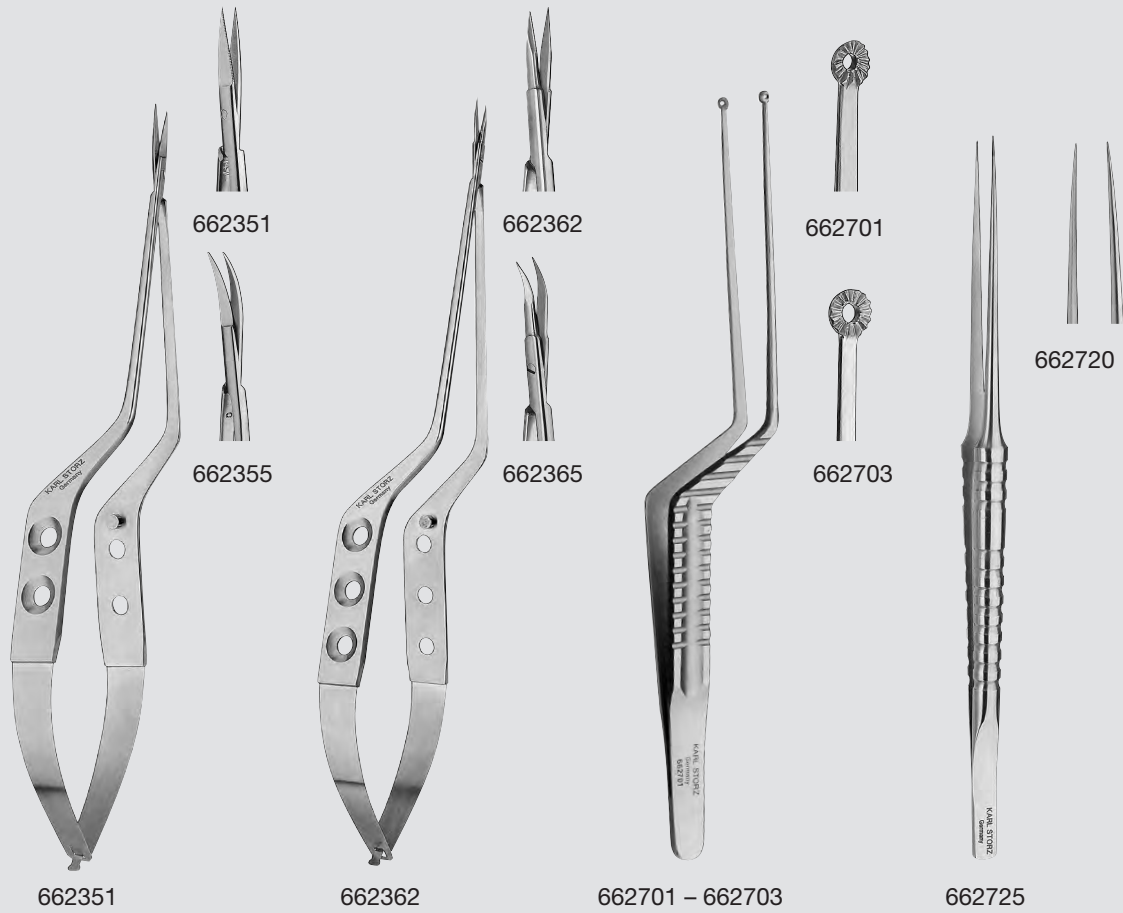
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 662471 CUSHING **Brain Spatula**, angled on both sides, convex, malleable, width 11 and 13 mm, length 18 cm
- 662472 **Same**, width 15 and 18 mm
- 662473 **Same**, width 18 and 22 mm
- 662475 OLIVECRONA **Brain Spatula**, angled on both sides, concave, elastic, width 5 and 6 mm, length 18 cm
- 662476 **Same**, width 7 and 9 mm
- 662477 **Same**, width 11 and 13 mm
- 662478 **Same**, width 15 and 18 mm
- 662479 **Same**, width 18 and 22 mm
- 662721 ALLIS **Forceps**, with fine teeth, length 20 cm
- 662797 YASARGIL **Spring Hook**, small, diameter of spring 9 mm, total length 31 cm
- 662820 FRANK-PASQUINI **Suction Tube**, angular, tip straight, with grip plate and cut-off hole, diameter 2 mm, working length 12 cm
- 662825 **Same**, diameter 2.5 mm
- 662830 **Same**, diameter 3 mm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 662351 YASARGIL **Micro Scissors**, spring type, bayonet-shaped, scissor blades straight, length 20 cm
- 662355 YASARGIL **Same**, scissor blades curved downwards
- 662362 VANNAS **Micro Scissors**, spring type, bayonet-shaped, straight tips, length 20 cm
- 662365 **Same**, scissor blades curved upwards
- 662701 YASARGIL **Forceps**, for grasping tissue and tumors, round and serrated jaws, bayonet-shaped, diameter 3 mm, length 20 cm
- 662703 HUNT **Same**, diameter 5 mm
- 662720 **Micro Forceps**, tip 0.2 mm wide, straight, length 17 cm
- 662725 **Micro Forceps**, tip 0.5 mm wide, straight with plateau, length 17 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



663402



663405



663413



663461



663463



663466



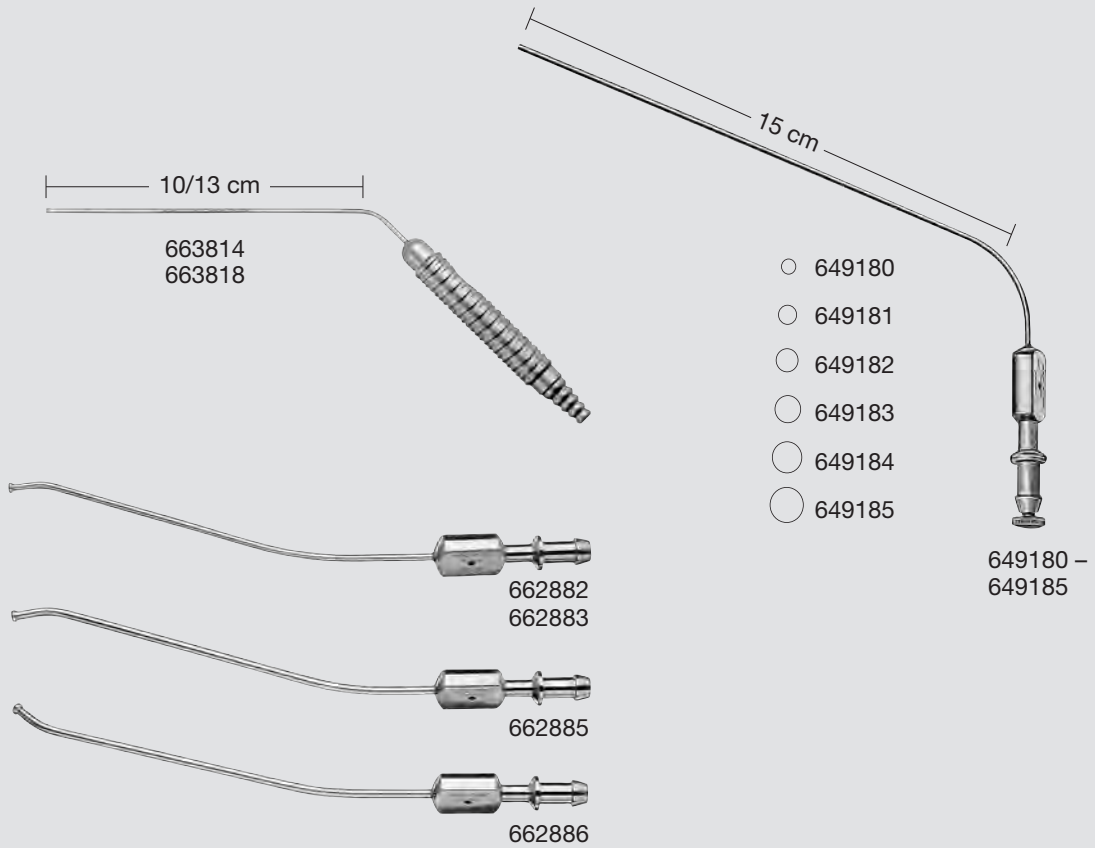
663482

- 663402 **Sickle Knife**, slightly curved,
with round handle, length 21.5 cm
- 663405 **Round Knife**, vertical, with round
handle, 4.5 x 3 mm, length 21.5 cm
- 663413 **Round Knife**, angled 30°, oval,
with round handle, 2.1 x 2.5 mm,
length 21.5 cm
- 663461 **Curette**, sharp, oval, angled 55°, 1.2 x
2 mm, with round handle, length 21.5 cm
- 663463 **Same**, angled 60°, 2 x 3.2 mm
- 663466 **Same**, angled 85°, 1.2 x 2 mm
- 663482 **Hook**, with ball end, angled 90°,
with round handle, length 21.5 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Suction Tubes, working length 10, 13 and 15 cm

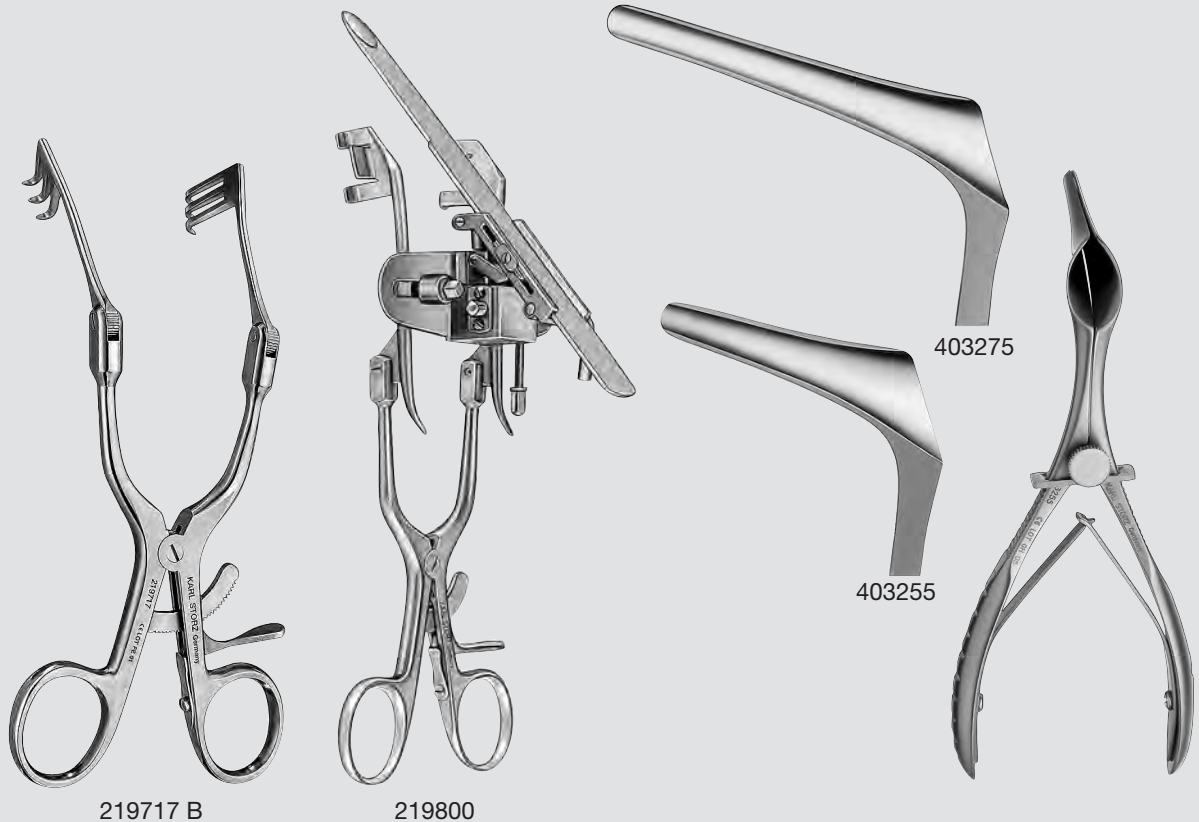


- | | |
|--------|---|
| 649180 | FERGUSON Suction Tube , with cut-off hole and stylet, LUER, 6 Fr., working length 15 cm |
| 649181 | Same , 7 Fr. |
| 649182 | Same , 8 Fr. |
| 649183 | Same , 10 Fr. |
| 649184 | Same , 12 Fr. |
| 649185 | Same , 15 Fr. |
| 663814 | Suction Tube , angular, malleable, with round handle and cut-off hole, diameter 2 mm, working length 10 cm |
| 663818 | Same , working length 13 cm |
| 662882 | FRANK-PASQUINI Suction Tube , angular, tip curved upwards, ball end, with grip plate and cut-off hole, LUER, diameter 2.4 mm, working length 13 cm |
| 662883 | Same , curved downwards |
| 662885 | FRANK-PASQUINI Suction Tube , angular, tip curved upwards, ball end, with grip plate and cut-off hole, LUER, diameter 3 mm, working length 13 cm |
| 662886 | Same , curved downwards |

Components/Spare Parts see chapter 16

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

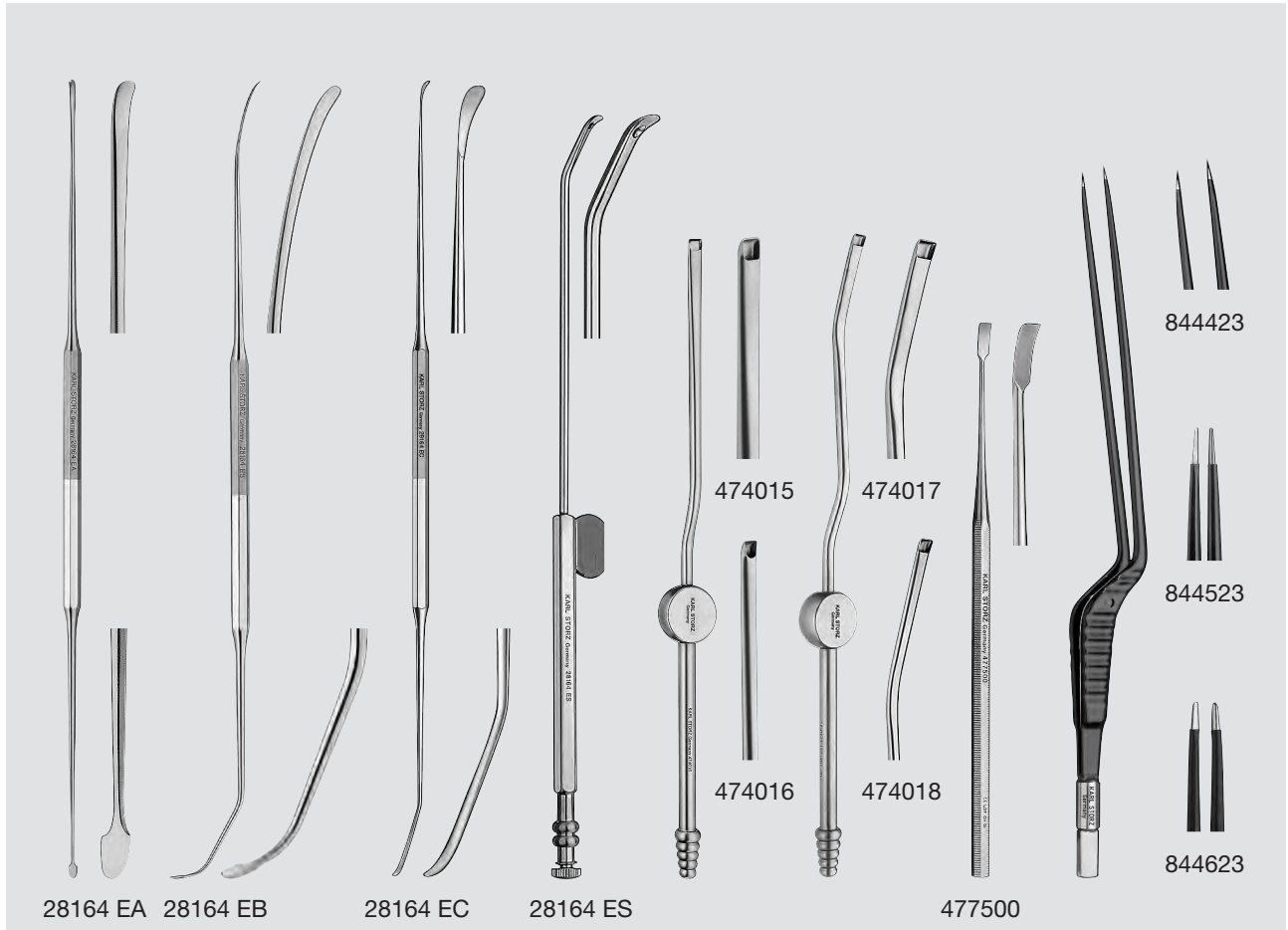


- 219717 B FISCH **Retractor**, articulated, 3 x 3 prongs, sharp, length 17 cm
- 219800 FISCH **Dura Retractor**, length 18 cm including:
 - Spatula**, straight, length 12 cm
 - Spatula**, straight, length 15 cm
 - Spatula**, curved, length 15 cm
 - Spatula Attachment**, for adjustment of spatulas
 - Wrench**, for spatula attachment
- 403255 KILLIAN-STRUYCKEN **Nasal Speculum**, with set rack, blade length 55 mm, length 15 cm
- 403275 **Same**, blade length 75 mm
- 798618 HEGAR **Needle Holder**, tungsten carbide inserts, slender, length 18 cm
- 799016 DRAF **Micro Needle Holder**, extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm

Components/Spare Parts see chapter 16

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 28164 EA CASTELNUOVO **Elevator**, double-ended, semisharp and blunt, length 26 cm
- 28164 EB CASTELNUOVO **Elevator**, double-ended, angled end shovel-shaped, semisharp, blunt end slightly curved, length 26 cm
- 28164 EC CASTELNUOVO **Elevator**, double-ended, blunt end angled, semisharp end slightly curved, graduated, length 26 cm
- 28164 ES CASTELNUOVO **Suction Elevator**, with stylet, curved, length 25 cm
- 474015 CASTELNUOVO **Suction Elevator**, flat tip, 5 x 1.8 mm, lateral suction opening, bayonet-shaped, with grip plate, length 21 cm
- 474016 **Same**, flat tip 3 x 1.8 mm
- NEW** 474017 CASTELNUOVO **Suction Elevator**, flat tip 5 x 1.8 mm, lateral suction opening, bayonet-shaped, distal end curved, with grip plate, length 21 cm
- NEW** 474018 **Same**, 3 x 1.8 mm
- 477500 **FREER Raspator**, curved, width 4 mm, length 18 cm
- 844423 **Bipolar Coagulating Forceps**, insulated, bayonet-shaped, tip 0.3 mm, length 23 cm, for use with Bipolar High Frequency Cords 847000 E or 847000 A/F/M/N/S/T/V
- 844523 **Same**, tip 0.7 mm, length 23 cm
- 844623 **Same**, blunt, tip 1.2 mm, length 23 cm

THUMFART Irrigation and Suction Endoscope

with ring handle, with press or push button valve for switching irrigation on and off,
for use with HOPKINS® II telescopes diameter 2.7 and 4 mm as well as Irrigation and Suction Sheaths
723527 A – F and 723540 A – F

The suction-irrigation endoscope is used to clear the telescope lens of blood, secretions and condensation. It is no longer necessary to remove the telescope from the nasal cavity in order to clean the lens. This

eliminates the reorientation and adjustment of the surgical field which was necessary in the past and results in time savings and uninterrupted work.

Special Features:

- Handle is easy to hold and operate due to the ring handle and finger grip plate
- Irrigation-suction sheaths can be rotated 360° in the handle for use in all fields of view
- Continuous suction
- For use with high pressure irrigation or irrigation bag
- For use with HOPKINS® II telescopes diameter 2.7 and 4 mm
- Handle available with 2 different valves:
Press button valve with lock function:
 Pressing down the valve button into the lock position starts irrigation, pressing the valve button again releases the locked position and stops irrigation
Push button valve:
 Irrigation is only possible when the valve button is depressed



- 723620 THUMFART **Irrigation and Suction Handle**, with ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:
Press Button Valve, with lock function
- 723621 THUMFART **Irrigation and Suction Handle**, with ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:
Push Button Valve (irrigation only active when the valve button is depressed)
- 101010-10* **Single Use Push Button Pressure Valve**, for switching irrigation on and off, sterile, package of 10, for use with THUMFART and IRO Suction and Irrigation Handle 723620 H and 723622 H

IRO Irrigation and Suction Endoscope

with pistol grip handle, with press or push button valve for switching irrigation on and off, for use with HOPKINS® II Telescopes diameter 2.7 and 4 mm as well as Irrigation and Suction Sheaths 723527 A – F and 723540 A – F

The IRO handle is distinguished by the following special features:

- Pistol-grip handle
- Irrigation-suction sheaths can be rotated 360° in the handle for use in all fields of view
- On-axis rotation of the sheath can be performed while maintaining the position of the pistol-grip handle. In this way, handling of instruments through the working channel is possible without becoming entangled with the fiber optic light cable.
- For use with HOPKINS® II Telescopes diameter 2.7 and 4 mm
- Grip is available with 2 different valves:
 - Press button valve with lock function: Pressing down the valve button into the lock position starts irrigation, pressing the valve button again releases the locked position and stops irrigation
 - Push button valve: Irrigation is only possible when the valve button is depressed
- For use with high pressure irrigation or irrigation bag
- Continuous suction



723622 IRO Irrigation and Suction Handle, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:

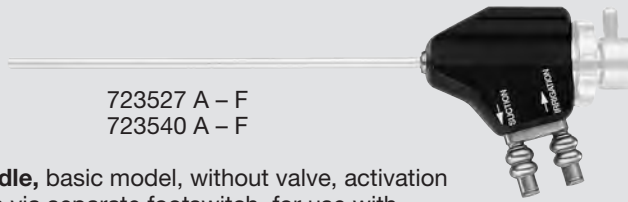
Press Button Valve, with lock function

723623 IRO Irrigation and Suction Handle, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:

Push Button Valve (irrigation only active when the valve button is depressed)




723622/723623



723630 Irrigation and Suction Handle, basic model, without valve, activation and deactivation of irrigation via separate footswitch, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F

723630

101010-10* **Single Use Push Button Pressure Valve**, for switching irrigation on and off, sterile, package of 10, for use with THUMFART and IRO Suction and Irrigation Handle 723620 H and 723622 H

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

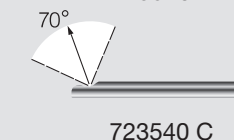
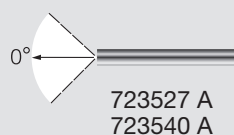
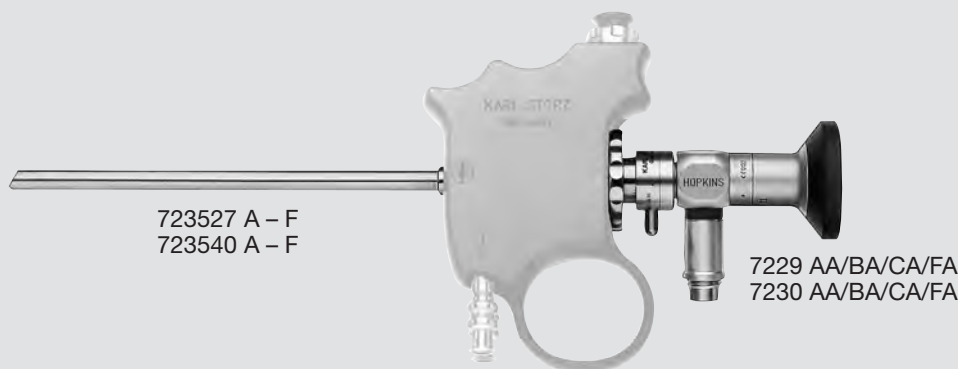
Components/Spare Parts see chapter 16

Irrigation and Suction Sheaths

for endoscopic nasal sinuses surgery, for use with Irrigation and Suction Handles 723620 – 723630 and HOPKINS® II telescopes with diameter 2.7 mm 7219 AA – FA, 7229 AA – FA and HOPKINS® II telescopes with diameter 4 mm 7230 AA – FA

Special Features:

- Design with double channel in a single sheath
- Maintenance free – no seal rings
- Hygienic – separate irrigation and suction canals
- Liquid which remains in the sheath cannot be rinsed out in the surgical area
- Slim, vertical oval sheath shapes: 3.5 x 4.7 mm and 4.8 x 6 mm
- Sheaths with inserted telescope can be rotated 360°
- 723527 A – F for use with 2.7 mm HOPKINS® II Telescopes with 0°, 30° and 45°
- 723540 A – F for use with 4 mm HOPKINS® Telescopes with 0°, 30°, 40° and 70°
- Suitable for IRO and THUMFART Irrigation and Suction Handles 723620 – 723623 and for 723630
- Easy preparation with Cleaning Accessories 723540 K/L, 723527 L



723527 A

Irrigation and Suction Sheath 0°, vertical oval, 3.5 x 4.7 mm, separate irrigation and suction channels, for use with Irrigation and Suction Handles 723620 – 723630, Cleaning Accessories 723527 L, 723540 K and Telescopes 7219 AA, 7229 AA

723527 B

Same, 30°, for use with Telescopes 7219 BA, 7229 BA

723527 F

Same, 45°, for use with Telescopes 7219 FA, 7229 FA

723540 A

Irrigation and Suction Sheath 0°, vertical oval, 4.8 x 6 mm, separate irrigation and suction channels, for use with Irrigation and Suction Handles 723620 – 723630, Cleaning Accessories 723540 K – L and Telescope 7230 AA

723540 B

Same, 30°, for use with Telescope 7230 BA

723540 F

Same, 45°, for use with Telescope 7230 FA

723540 C

Same, 70°, for use with Telescope 7230 CA

723540 K

Cleaning Attachment, for irrigation channel of Irrigation and Suction Sheaths 723527 A – F and 723540 A – F, LUER-Lock, length 3.5 cm

723540 L

Cleaning Tube, for suction/telescope channel of Irrigation and Suction Sheaths 723540 A – F and for Irrigation and Suction Sheaths 7230 AS – FS, LUER-Lock, length 23 cm

723527 L

Cleaning Tube, for suction/telescope channel of Irrigation and Suction Sheaths 723527 A – F and Irrigation and Suction Sheaths 7207 AS/BS, 7219 AS – FS, 7220 AS – FS and 7228 AS – FS, LUER-Lock, length 24 cm

CLEARVISION® II

for Intraoperative Cleaning of the Front Lens

CLEARVISION® II System

The KARL STORZ CLEARVISION® II System cleans the lens via a pulsating irrigation technique, which provides an unobstructed view during interventions in sinus or neural sinus surgery. The rinsing process is activated by pressing the footswitch. Releasing the footswitch reverses the pump to suction out any remaining irrigation fluid in the tube or irrigation sheath. The duration of the reverse rotation can be set on a switch on the front of the device. Any drops of irrigation liquid on the distal lens is removed to prevent reflections.

The CLEARVISION® II System can be used in conjunction with suitable sheaths for use with KARL STORZ HOPKINS® II Telescopes 7229 AA – FA and 7230 AA – FA.

Special Features:

- **The first stage (semi-pressed pedal) cleans the distal lens by means of a pulsating irrigation flow.**
- **The second stage (fully pressed pedal) activates a continuous irrigation flow.**
- **Two-stage footswitch**

Complete system configuration recommended




- 40 3341 01 CLEARVISION® II Set**, lens irrigation system for endoscopes, power supply 100 – 240 VAC, 50/60 Hz including:
Mains Cord
One-Pedal Footswitch
Silicone Tubing Set, sterilizable

Optional accessory:
031229-10* **Tubing Set**, sterile, package of 10

Specifications:

| | | | |
|--------------|--|----------------------|---------------------------|
| Irrigation | min. 30 min with 1 l irrigation liquid non-regulated flow (ml/min): 40 | Dimensions w x h x d | 100 x 180 x 70 mm |
| Power Supply | 100-240 VAC, 50/60 Hz | Weight | 1.5 kg |
| | | Certified to | IEC 601-1, CE acc. to MDD |

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

CLEARVISION® II

System Components

One-Pedal
Footswitch



20 0142 30

Silicone Tubing Set



40 3341 40

UNIT SIDE

PATIENT SIDE



Irrigation Sheath

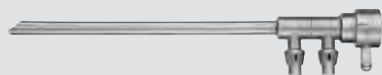


7230 FS

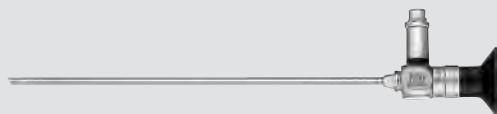
1-03z














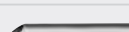

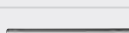
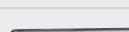
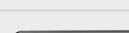
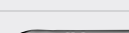
Irrigation Sheaths, proximally reinforced for use with Holder 28272 RKB

Irrigation Sheath, proximally reinforced for use with Adjustable Holder 28272 RKB



Compatible HOPKINS® Telescopes



| Detail | Order No. | Outer Diameter | Working length | Order No. | View | Outer Diameter | Length |
|---|-----------|----------------|----------------|---------------------|------|----------------|--------|
|  | 7207 AS | 3.5 x 4.7 mm | 7 cm | 7207 AA | 0° | 2.7 mm | 11 cm |
|  | 7207 BS | 3.5 x 4.7 mm | 7 cm | 7207 BA | 30° | 2.7 mm | 11 cm |
|  | 7207 CS | 3.5 x 4.7 mm | 7 cm | 7207 CA | 70° | 2.7 mm | 11 cm |
|  | 7220 AS | 4.8 x 3.7 mm | 10 cm | 7220 AA | 0° | 3 mm | 14 cm |
|  | 7220 BS | 4.8 x 3.7 mm | 10 cm | 7220 BA | 30° | 3 mm | 14 cm |
|  | 7220 FS | 4.8 x 3.7 mm | 10 cm | 7220 FA | 45° | 3 mm | 14 cm |
|  | 7220 CS | 4.8 x 3.7 mm | 10 cm | 7220 CA | 70° | 3 mm | 14 cm |
|  | 7228 AS | 4.8 x 6 mm | 11 cm | 7228 AA | 0° | 4 mm | 15 cm |
|  | 7228 BS | 4.8 x 6 mm | 11 cm | 7228 BA | 30° | 4 mm | 15 cm |
|  | 7228 FS | 4.8 x 6 mm | 11 cm | 7228 FA | 45° | 4 mm | 15 cm |
|  | 7228 CS | 4.8 x 6 mm | 11 cm | 7228 CA | 70° | 4 mm | 15 cm |
|  | 7230 AS | 4.8 x 6 mm | 14 cm | 7230 AA 28132 AA | 0° | 4 mm | 18 cm |
|  | 7230 BS | 4.8 x 6 mm | 14 cm | 7230 BA 28132 BA | 30° | 4 mm | 18 cm |
|  | 7230 FS | 4.8 x 6 mm | 14 cm | 7230 FA 28132 FA | 45° | 4 mm | 18 cm |
|  | 7230 CS | 4.8 x 6 mm | 14 cm | 7230 CA 28132 CA | 70° | 4 mm | 18 cm |
|  | 7219 AS | 3.5 x 4.7 mm | 14 cm | 7219 AA 7229 AA | 0° | 2.7 mm | 18 cm |
|  | 7219 BS | 3.5 x 4.7 mm | 14 cm | 7219 BA 7229 BA | 30° | 2.7 mm | 18 cm |
|  | 7219 FS | 3.5 x 4.7 mm | 14 cm | 7219 FA 7229 FA | 45° | 2.7 mm | 18 cm |
|  | 7219 CS | 3.5 x 4.7 mm | 14 cm | 7219 CA 7229 CA | 70° | 2.7 mm | 18 cm |

723527 L **Cleaning Tube**, for suction/telescope channel of Irrigation and Suction Sheaths 723527 A – F and Irrigation and Suction Sheaths 7207 AS/BS, 7219 AS – FS, 7220 AS – FS and 7228 AS – FS, LUER-Lock, length 24 cm

723540 L **Cleaning Tube**, for suction/telescope channel of Irrigation and Suction Sheaths 723540 A – F and for Irrigation and Suction Sheaths 7230 AS – FS, LUER-Lock, length 23 cm

Holding Systems

with KSLOCK, for use with Irrigation Sheaths for CLEARVISION® II System



28272 RKB **Holding System, autoclavable**, with quick release coupling KSLOCK

including:

Rotation Socket, to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand

Articulated Stand, reinforced version, L-shaped, with one central clamp for all five joint functions, height 48 cm, swivel range 52 cm, with quick release coupling KSLOCK (female)

Clamping Jaw, metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths

3-05z


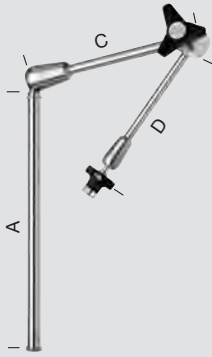
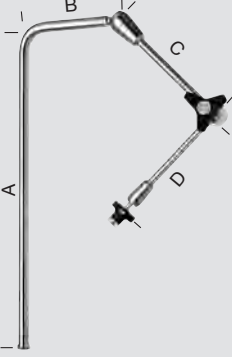
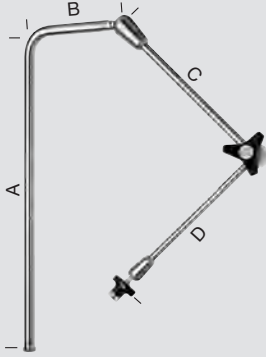
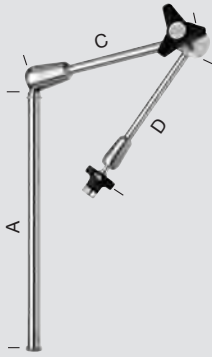
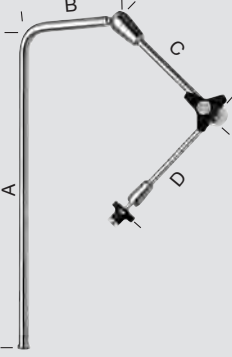
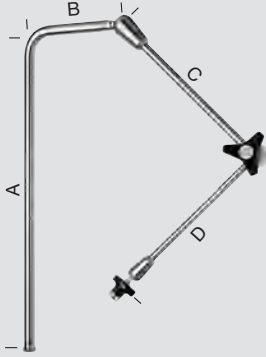

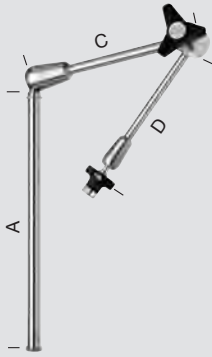
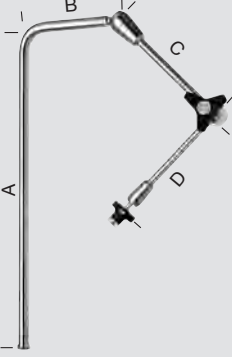
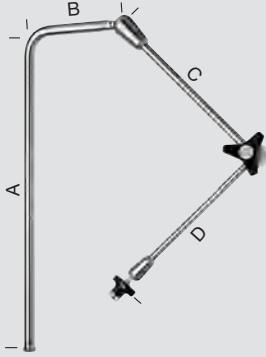
Further holding systems see page 204 and chapter 15, MICROSCOPY

Components/Spare Parts see chapter 16

Holding Systems

with KSLOCK



| Socket | Articulated Stand | | | | | |
|---|---|---------|---|---------|---|---------|
| 28172 HK | 28272 HA | | 28272 HB | | 28272 HC | |
|  |  | |  | |  | |
| 28172 HR |  | |  | |  | |
|  |  | |  | |  | |
| | A 30 cm | B – | A 48 cm | B 15 cm | A 48 cm | B 15 cm |
| | C 20 cm | D 17 cm | C 20 cm | D 17 cm | C 27 cm | D 24 cm |

| Clamping Jaw | Complete Instrument | | |
|--------------|---------------------|-----------|-----------|
| 28272 UGN | 28272 KGA | 28272 KGB | 28272 KGC |
| | 28272 RGA | 28272 RGB | 28272 RGC |



Clamping Jaw, metal, with axial intake, for use with all square-headed KARL STORZ Telescopes, clamping range 16.5 up to 23 mm

| | | | |
|-----------|-----------|-----------|-----------|
| 28272 UKN | 28272 KKA | 28272 KKB | 28272 KKC |
| | 28272 RKA | 28272 RKB | 28272 RKC |



Clamping Jaw, metal, with axial intake, for use with instrument, irrigation and telescope sheaths, clamping range 4.8 up to 12.5 mm

| | | | |
|----------|-----------|-----------|-----------|
| 28272 UL | 28272 KLA | 28272 KLB | 28272 KLC |
| | 28272 RLA | 28272 RLB | 28272 RLC |




Clamping Jaw, universal, clamping range 0 – 18 mm

| | | | |
|----------|-----------|-----------|-----------|
| 28272 UF | 28272 KFA | 28272 KFB | 28272 KFC |
| | 28272 RFA | 28272 RFB | 28272 RFC |



Clamping Jaw, for use with all KARL STORZ polymer housing fiberscopes

| Clamping Cylinder | | |
|---|---------|---|
|  | 28272 C | Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope. |



■ MOTOR SYSTEMS

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO

High-Performance EC Micro Motor II

High-Speed Micro Motor

DrillCut-X® II Shaver Handpieces

DrillCut-X® II N Shaver Handpieces

Shaver Blades

Sinus Burrs

INTRA Drill Handpieces

Burrs

STAMMBERGER-SACHSE Intranasal Drill

High-Speed Handpieces

High-Speed Burrs

Motor Systems

Special Features

UNIDRIVE® S III ENT SCB/UNIDRIVE® S III ECO

The multifunctional unit for ENT



UNIDRIVE® S III ENT SCB



UNIDRIVE® S III ECO

Special Features:

| | UNIDRIVE® S III ENT SCB | UNIDRIVE® S III ECO |
|---|----------------------------|------------------------|
| Touch Screen: Function selection via touch screen | ● | - |
| Set values of the last session are stored | ● | ● |
| Choice of user languages | ● | - |
| Color display | ● | - |
| One unit – multifunctional: | | |
| – Shaver system for surgery of the paranasal sinuses and anterior skull base | } | ● |
| – INTRA Drill Handpieces (40,000 rpm and 80,000 rpm) | | |
| – Sinus Shaver | | |
| – Micro Saws | | |
| – STAMMBERGER-SACHSE Intranasal Drill | | |
| – Dermatome | } | ● |
| – High-Speed Handpieces (60,000 rpm and 100,000 rpm) | | |
| Two motor outputs: Two motor outputs enable simultaneous connection of two motors: For example, a shaver and micro motor | ● | ● |
| Soft start function | ● | - |
| Formulated error messages | ● | - |
| Integrated irrigation and coolant pump: | | |
| – Micro-processor controlled irrigation rate | ● | ● |
| – Quick and easy connection of the tubing set | ● | ● |
| Program selection via automated motor recognition | ● | ● |
| Continuously variable revolution range | ● | ● |
| Maximum number of revolutions and motor torque: Microprocessor-controlled revolutions per minute. Therefore the preselected parameters are maintained all the time during drilling. | ● | ● |
| Maximum number of revolutions can be preset | ● | ● |
| With connection possibilities to the KARL STORZ Communication Bus (KARL STORZ-SCB) | ● | - |
| Irrigator rod included | ● | - |

System specifications

| Mode | | Order No. | rpm |
|--|--|----------------------------------|----------------|
| Shaver mode Operation mode: Max. rev. (rpm): | oscillating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece | 40 7120 50 | 10,000 |
| | DrillCut-X® II N Shaver Handpiece | 40 7120 55 | 10,000 |
| Sinus burr mode Operation mode: Max. rev. (rpm): | rotating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece | 40 7120 50 | 12,000 |
| | DrillCut-X® II N Shaver Handpiece | 40 7120 55 | 12,000 |
| High-speed drilling mode Operation mode: Max. rev. (rpm): | counterclockwise or clockwise in conjunction with: High-Speed Micro Motor | 20 7120 33 | 60,000/100,000 |
| Drilling mode Operation mode: Max. rev. (rpm): | counterclockwise or clockwise in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 40,000/80,000 |
| Micro saw mode Max. rev. (rpm): | in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 15,000/20,000 |
| Intranasal drill mode Max. rev. (rpm): | in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 60,000 |
| Dermatome mode Max. rev. (rpm): | in conjunction with: micro motor and connecting cable | [20 7110 33] [20 7111 73] | 8,000 |
| Power supply: | 100 – 240 VAC, 50/60 Hz | | |
| Dimensions: (w x h x d) | 300 x 165 x 265 mm | | |
| Two outputs for parallel connection of two motors | | | |
| Integrated irrigation pump: | | | |
| Flow: | adjustable in 9 steps | | |

| | UNIDRIVE® S III ENT SCB | UNIDRIVE® S III ECO |
|-----------------------------|--|---------------------|
| Touch Screen: | 6,4" / 300 cd/m ² | |
| Weight: | 5.2 kg | 4.7 kg |
| Certified to: | IEC 601-1 CE acc. to MDD | IEC 60601-1 |
| Available languages: | English, French, German, Spanish, Italian, Portuguese, Greek, Turkish, Polish, Russian | numerical codes |

Motor Systems

Special features of high-performance EC micro motor II
and of the high-speed micro motor

Special features of high-performance EC micro motor II:

- Self-cooling, brushless high-performance EC micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Detachable connecting cable
- INTRA coupling
- Maximum torque 4 Ncm
- Number of revolutions can be continuously adjusted up to 40,000 rpm
- Possible to adjust the number of revolutions to 80,000 rpm with the appropriate handle



20 7110 33

20 7110 33 **High-Performance EC Micro Motor II**, for use with UNIDRIVE® II/UNIDRIVE® ENT/OMFS/NEURO/ECO and Connecting Cable 20 7110 73, or for use with UNIDRIVE® S III ENT/ECO/NEURO and Connecting Cable 20 7111 73



20 7111 73 **Connecting Cable**, to connect High-Performance EC Micro Motor 20 7110 33 to UNIDRIVE® S III ENT/ECO/NEURO

Special Features of the high-speed micro motor:

- Brushless high-speed micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Maximum torque 6 Ncm
- Number of revolutions can be continuously adjusted up to 60,000 rpm
- Possible to adjust the number of revolutions to 100,000 rpm with the appropriate handle



20 7120 33

20 7120 33 **High-Speed Micro-Motor**, max. speed 60,000 rpm, including connecting cable, for use with UNIDRIVE® S III ENT/NEURO

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO



40 7016 20-1



40 7014 20

40 7016 01-1 UNIDRIVE® S III ENT SCB, motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and SCB module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Irrigator Rod

Two-Pedal Footswitch, two-stage, with proportional function

Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

SCB Connecting Cable, length 100 cm

Single Use Tubing Set*, sterile, package of 3

40 7014 01 UNIDRIVE® S III ECO, motor control unit with two motor outputs and integrated irrigation pump, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Two-Pedal Footswitch, two-stage, with proportional function


Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

Single Use Tubing Set*, sterile, package of 3

Specifications:

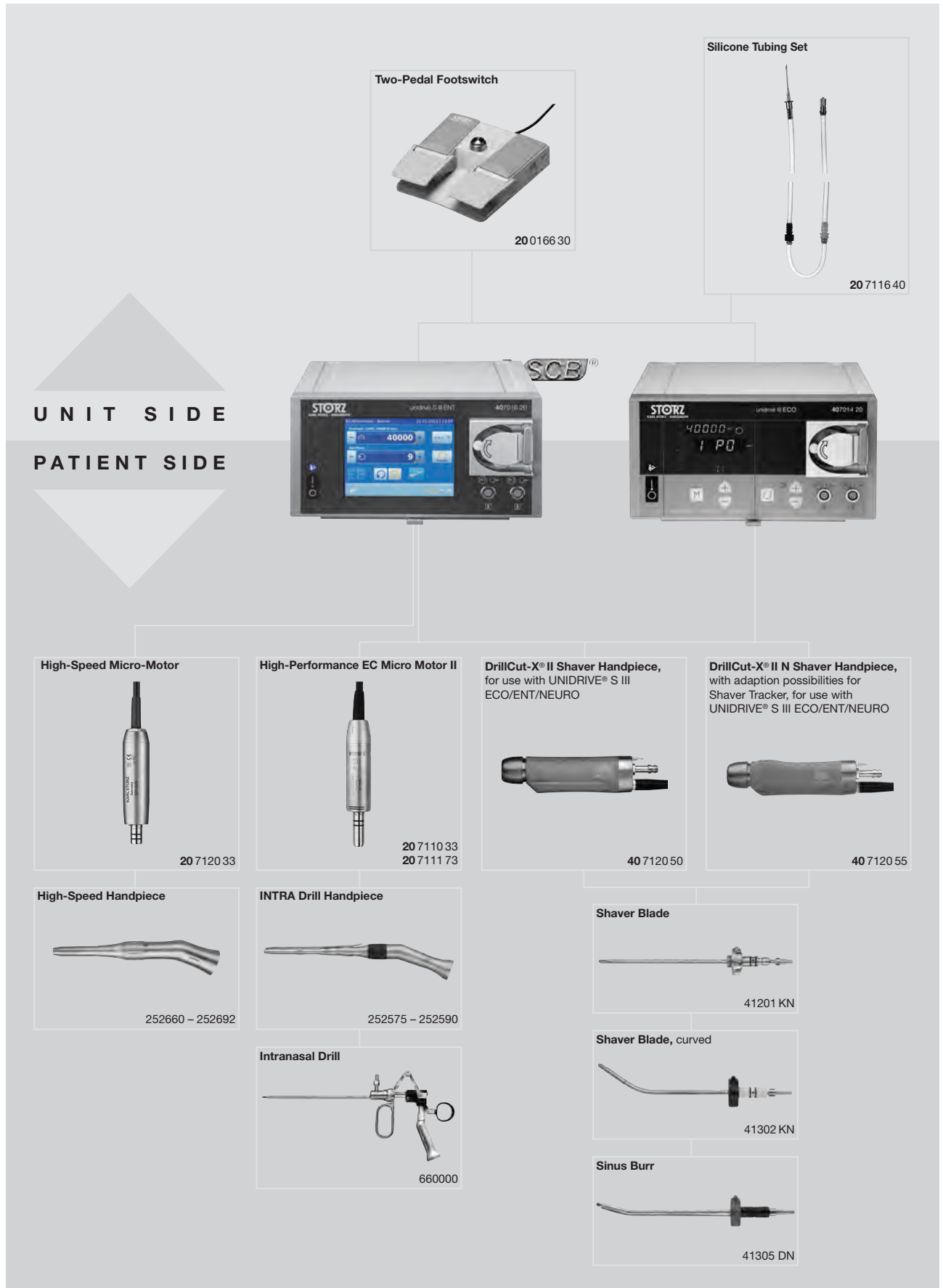
| | | | |
|--------------|---|----------------------|---------------------------|
| Touch Screen | UNIDRIVE® S III ENT SCB: 6,4"/300 cd/m ² | Dimensions w x h x d | 300 x 165 x 265 mm |
| Flow | 9 steps | Weight | 5.2 kg |
| Power supply | 100-240 VAC, 50/60 Hz | Certified to | IEC 601-1, CE acc. to MDD |

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO

System Components




Two-Pedal Footswitch



200166 30

Silicone Tubing Set



207116 40

UNIDRIVE S III ENT SCB®



407016 20

UNIDRIVE S III ECO



407014 20

High-Speed Micro-Motor



20 7120 33

High-Performance EC Micro Motor II



20 7110 33
20 7111 73

DrillCut-X® II Shaver Handpiece,
for use with UNIDRIVE® S III
ECO/ENT/NEURO




40 7120 50

DrillCut-X® II N Shaver Handpiece,
with adaption possibilities for
Shaver Tracker, for use with
UNIDRIVE® S III ECO/ENT/NEURO



40 7120 55

High-Speed Handpiece




252660 - 252692

INTRA Drill Handpiece




252575 - 252590

Shaver Blade



41201 KN

Shaver Blade, curved




41302 KN

Intranasal Drill



660000

Sinus Burr



41305 DN

Optional Accessories

for UNIDRIVE® S III ENT SCB and UNIDRIVE® S III ECO



280053 **Universal Spray**, 6x 500 ml bottles – HAZARDOUS GOODS – UN 1950
including:
Spray Nozzle

280053 C **Spray Nozzle**, for the reprocessing of INTRA burr handpieces,
for use with Universal Spray 280053 B



031131-10* **Tubing Set**, for irrigation, for single use, sterile,
package of 10



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

DrillCut-X® Shaver Handpieces

Special Features

Special Features:

Max. 10,000 rpm for shaver blades, max. 12,000 rpm for sinus shavers

Straight suction channel

Integrated irrigation channel

Completely immersible and machine-washable

Rapid coupling for fixation of shaver blades and sinus shavers

Can be adapted to navigated shaver tracker

DrillCut-X® II
40 7120 50

DrillCut-X® II N
40 7120 55

●

●

●

●

●

●

●

●

●

●

—

●



40 7120 50

40 7120 50 **DrillCut-X® II Shaver Handpiece**, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 55

40 7120 55 **DrillCut-X® II N Shaver Handpiece**, with adaption possibilities for Shaver Tracker 40 8001 22, for use with UNIDRIVE® S III ECO/ENT/NEURO

DrillCut-X® II Shaver Handpieces

Special Features:

- Powerful motor
- Oscillation mode for shaver blades, max. 10,000 rpm
- Rotation mode for sinus shavers, max. 12,000 rpm
- Straight suction channel and integrated irrigation
- Variable handle allows connection with various handpieces
- Suitable for use in washer and autoclavable at 134° C
- Quick coupling mechanism for exchange of work inserts
- Proven DrillCut-X® blade portfolios can be used



40 7120 50

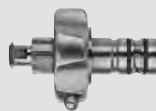
40 7120 50 **DrillCut-X® II Shaver Handpiece**, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Optional Accessory:



41250 RA

41250 RA **Cleaning Adaptor**, LUER-Lock, for cleaning DrillCut-X® shaver handpieces

DrillCut-X® II N Shaver Handpieces

Special Features:

- Powerful motor
- Oscillation mode for shaver blades, max. 10,000 rpm
- Rotation mode for sinus shavers, max. 12,000 rpm
- Straight suction channel and integrated irrigation
- Variable handle allows connection with various handpieces
- Suitable for use in washer and autoclavable at 134° C
- Quick coupling mechanism facilitates rapid exchange of working inserts
- Proven DrillCut-X® blade portfolios can be used
- Adaptation possibilities for Shaver Tracker 40 8001 22
- Allows shaver navigation when used with NAV1® PICO 40 8000 01



40 7120 55

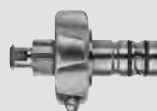
40 7120 55 **DrillCut-X® II N Shaver Handpiece**, with adaption possibilities for Shaver Tracker 40 8001 22, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Optional Accessory:



41250 RA

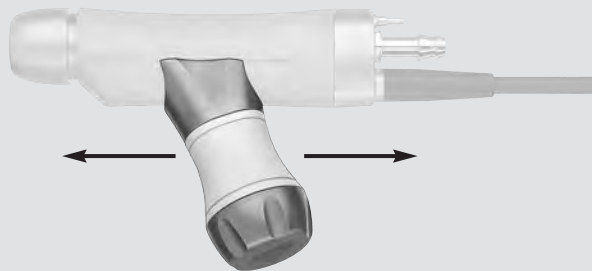
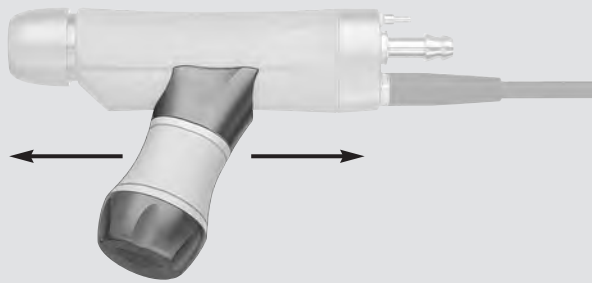
41250 RA **Cleaning Adaptor**, LUER-Lock, for cleaning DrillCut-X® shaver handpieces

Handle for DrillCut-X® II Shaver Handpiece

for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Special Features:

- Easy handle control allows individual adjustment
- Variable mounting options to DrillCut-X® II or DrillCut-X® II N shaver handpieces
- Fixation via rotary lock
- Suitable for use in washer and autoclavable at 134 °C



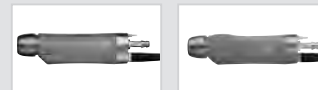
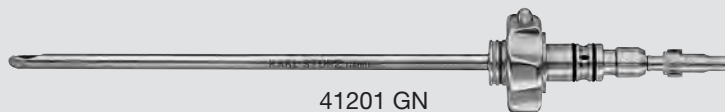
40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Shaver Blades, straight

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



Shaver Blades, straight, sterilizable

| Detail | for use with | | Shaver Blade length 12 cm |
|--------|-------------------------------------|---------------------------------------|---|
| | 40 7120 50 DrillCut-X® II Handpiece | 40 7120 55 DrillCut-X® II N Handpiece | |
| | | 41201 KN | serrated cutting edge, diameter 4 mm, color code: blue-red |
| | | 41201 KK | double serrated cutting edge, diameter 4 mm, color code: blue-yellow |
| | | 41201 GN | concave cutting edge, oval cutting window, diameter 4 mm, color code: blue-green |
| | | 41201 LN | concave cutting edge, oblique cutting window, diameter 4 mm, color code: blue-black |
| | | 41201 SN | straight cutting edge, diameter 4 mm, color code: blue-blue |
| | | 41201 KSA | serrated cutting edge, diameter 3 mm, color code: blue-red |
| | | 41201 KKSA | double serrated cutting edge, diameter 3 mm, color code: blue-yellow |
| | | 41201 KKSB | double serrated cutting edge, diameter 2 mm, color code: blue-yellow |
| | | 41201 LSA | concave cutting edge, oblique cutting window, diameter 3 mm, color code: blue-black |

Optional Accessory:



41200 RA

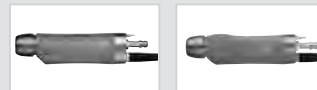
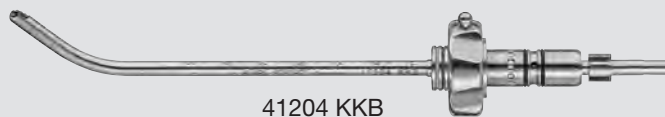
Cleaning Adaptor, LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



Shaver Blades, curved 35°/40°, sterilizable

| Detail | for use with | Shaver Blade length 12 cm |
|--------|--|--|
| | 40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece | |
| | 41202 KN | curved 35°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red |
| | 41204 KKF | curved 40°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41204 KKB | curved 40°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41204 KKFA | curved 40°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow |
| | 41204 KKBA | curved 40°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow |

Optional Accessory:



41200 RA

Cleaning Adaptor, LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

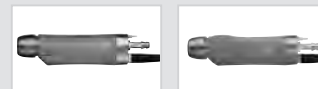
Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41203 KKF



Shaver Blades, curved 65°, sterilizable

| Detail | for use with | | Shaver Blade length 12 cm |
|--------|-------------------------------------|---------------------------------------|--|
| | 40 7120 50 DrillCut-X® II Handpiece | 40 7120 55 DrillCut-X® II N Handpiece | |
| | 41203 KNF | | curved 65°, cutting edge serrated forwards, diameter 4 mm, color code: blue-red |
| | 41203 KNB | | curved 65°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red |
| | 41203 KKF | | curved 65°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41203 KKB | | curved 65°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41203 KKFA | | curved 65°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow |
| | 41203 KKBA | | curved 65°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow |
| | 41203 GNF | | curved 65°, concave cutting edge, oval cutting window, forward opening, diameter 4 mm, color code: blue-green |
| | 41203 GNB | | curved 65°, concave cutting edge, oval cutting window, backward opening, diameter 4 mm, color code: blue-green |

Optional Accessory:



41200 RA

Cleaning Adaptor, LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

Shaver Blades, straight

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41301 KK



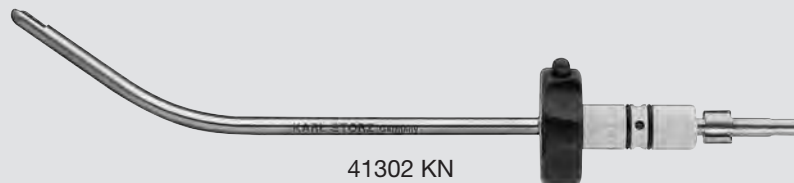
Shaver Blades, straight, **for single use**, sterile, package of 5

| Detail | for use with | Shaver Blade length 12 cm |
|--------|--|---|
| | 40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece | |
| | 41301 KN | serrated cutting edge, diameter 4 mm, color code: blue-red |
| | 41301 KK | double serrated cutting edge, diameter 4 mm, color code: blue-yellow |
| | 41301 GN | concave cutting edge, oval cutting window, diameter 4 mm, color code: blue-green |
| | 41301 LN | concave cutting edge, oblique cutting window, diameter 4 mm, color code: blue-black |
| | 41301 SN | straight cutting edge, diameter 4 mm, color code: blue-blue |
| | 41301 KSA | serrated cutting edge, diameter 3 mm, color code: blue-red |
| | 41301 KKSA | double serrated cutting edge, diameter 3 mm, color code: blue-yellow |
| | 41301 KKSB | double serrated cutting edge, diameter 2 mm, color code: blue-yellow |
| | 41301 LSA | concave cutting edge, oblique cutting window, diameter 3 mm, color code: blue-black |

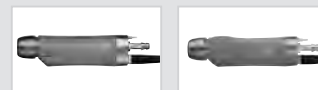
Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41302 KN



Shaver Blades, curved 35°/40°, **for single use**, sterile, package of 5

| Detail | for use with | | Shaver Blade length 12 cm |
|--------|-------------------------------------|---------------------------------------|--|
| | 40 7120 50 DrillCut-X® II Handpiece | 40 7120 55 DrillCut-X® II N Handpiece | |
| | 41302 KN | | curved 35°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red |
| | 41304 KKF | | curved 40°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41304 KKB | | curved 40°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41304 KKFA | | curved 40°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow |
| | 41304 KKBA | | curved 40°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow |

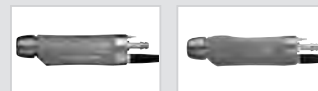
Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41303 KKB



Shaver Blades, curved 65°, **for single use**, sterile, package of 5

| Detail | for use with | Shaver Blade length 12 cm |
|--------|--|--|
| | 40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece | |
| | 41303 KNF | curved 65°, cutting edge serrated forwards, diameter 4 mm, color code: blue-red |
| | 41303 KNB | curved 65°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red |
| | 41303 KKF | curved 65°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41303 KKB | curved 65°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow |
| | 41303 KKFA | curved 65°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow |
| | 41303 KKBA | curved 65°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow |
| | 41303 GNF | curved 65°, cutting edge concave forwards, oval cutting window, diameter 4 mm, color code: blue-green |
| | 41303 GNB | curved 65°, cutting edge concave backwards, oval cutting window, diameter 4 mm, color code: blue-green |

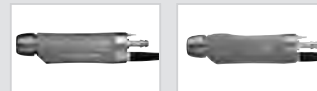
Sinus Burrs, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N

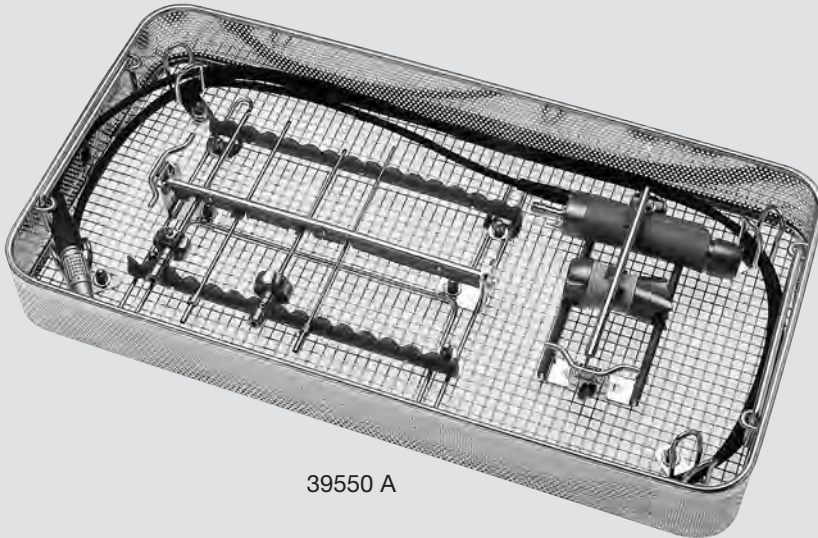


41305 RN



Sinus Burrs, curved 70°/55°/40°/15°, **for single use**, sterile, package of 5

| Detail | for use with | Sinus Burr length 12 cm |
|--------|--|--|
| | 40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece | |
| | 41304 W | curved 40°, cylindric, drill diameter 3 mm, shaft diameter 4 mm, color code: red-blue |
| | 41303 WN | curved 55°, cylindric, drill diameter 3.6 mm, shaft diameter 4 mm, color code: red-blue |
| | 41305 RN | curved 15°, bud drill, drill diameter 4 mm, shaft diameter 4 mm, color code: red-black |
| | 41305 DN | curved 15°, diamond head, drill diameter 3 mm, shaft diameter 4 mm, color code: red-yellow |
| | 41305 D | curved 15°, diamond head, drill diameter 5 mm, shaft diameter 4 mm, color code: red-yellow |
| | 41305 DW | curved 40°, diamond head, drill diameter 5 mm, shaft diameter 4 mm, color code: red-yellow |
| | 41303 DT | curved 70°, diamond head, drill diameter 3.6 mm, shaft diameter 4 mm, color code: red-yellow |



39550 A

39550 A

Wire Tray, provides safe storage of accessories for KARL STORZ paranasal sinus shaver systems during cleaning and sterilization

for storage of:

- Up to 7 shaver attachments
- Connecting cable

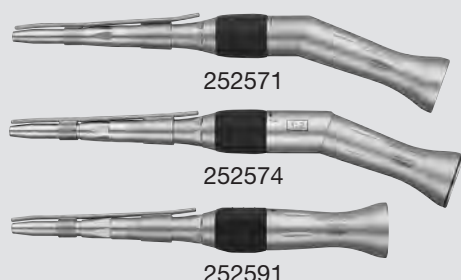
Please note: The instruments displayed are not included in the sterilizing and storage tray.

INTRA Drill Handpiece

for Surgery in Ethmoid and Skull Base Area

Special Features:

- Tool-free closing and opening of the drill
- Right/left rotation
- Max. rotating speed up to 40,000 or 80,000 rpm
- Detachable irrigation tubes
- Can be processed in a cleaning machine



- 252571 **INTRA Drill Handpiece**, angled, length 15 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs
- 252574 **Same**, transmission 1:2 (80,000 rpm)
- 252591 **INTRA Drill Handpiece**, straight, length 13 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs



| Detail | Size | Dia. mm | Standard | Diamond | Diamond coarse |
|--------|------|---------|----------|---------|----------------|
| | 014 | 1.4 | 649614 | 649714 | – |
| | 018 | 1.8 | 649618 | 649718 | – |
| | 023 | 2.3 | 649623 | 649723 | 649723 G |
| | 027 | 2.7 | 649627 | 649727 | 649727 G |
| | 031 | 3.1 | 649631 | 649731 | 649731 G |
| | 035 | 3.5 | 649635 | 649735 | 649735 G |
| | 040 | 4 | 649640 | 649740 | 649740 G |
| | 045 | 4.5 | 649645 | 649745 | 649745 G |
| | 050 | 5 | 649650 | 649750 | 649750 G |
| | 060 | 6 | 649660 | 649760 | 649760 G |
| | 070 | 7 | 649670 | 649770 | 649770 G |

- 649600 **Standard Straight Shaft Burr**, stainless, size 014 – 070, length 9.5 cm, set of 11
- 649700 **Diamond Straight Shaft Burr**, stainless, size 014 – 070, length 9.5 cm, set of 11
- 649700 G **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating for precise drilling and abrasion without hand pressure and generating minimal heat, size 023 – 070, length 9.5 cm, set of 9, color code: gold
- 280033 **Rack**, for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm

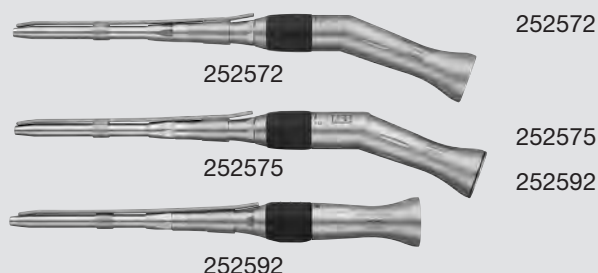
High Performance EC Micro Motor II 20711033 and Connecting Cable 20711173 see page 209

INTRA Drill Handpiece

for Surgery in Ethmoid and Skull Base Area

Special Features:

- Tool-free closing and opening of the drill
- Right/left rotation
- Max. rotating speed up to 40,000 or 80,000 rpm
- Detachable irrigation tubes
- Can be processed in a cleaning machine



INTRA Drill Handpiece, angled, length 18 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and burrs

Same, transmission 1:2 (80,000 rpm)

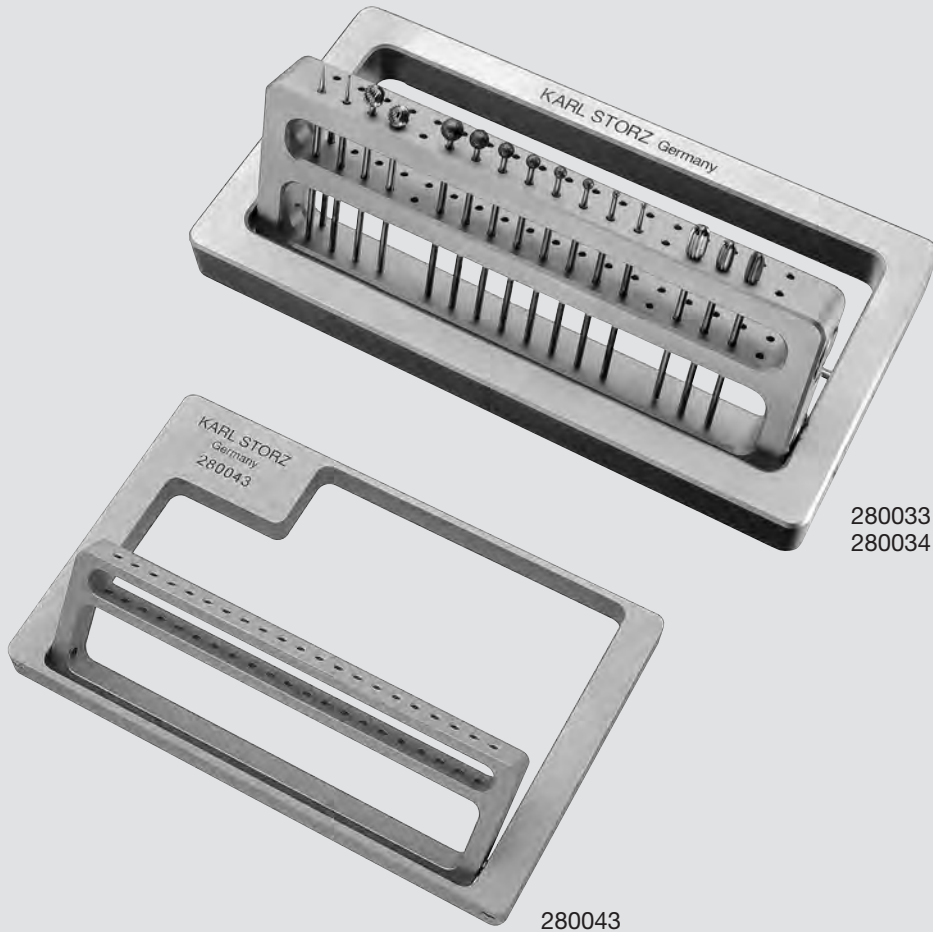
INTRA Drill Handpiece, straight, length 17 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs



| Detail | Size | Dia. mm | Standard | Diamond | Diamond coarse |
|--------|------|---------|--------------|--------------|----------------|
| | | | sterilizable | sterilizable | sterilizable |
| | 014 | 1.4 | 649614 L | 649714 L | - |
| | 018 | 1.8 | 649618 L | 649718 L | - |
| | 023 | 2.3 | 649623 L | 649723 L | 649723 GL |
| | 027 | 2.7 | 649627 L | 649727 L | 649727 GL |
| | 031 | 3.1 | 649631 L | 649731 L | 649731 GL |
| | 035 | 3.5 | 649635 L | 649735 L | 649735 GL |
| | 040 | 4 | 649640 L | 649740 L | 649740 GL |
| | 045 | 4.5 | 649645 L | 649745 L | 649745 GL |
| | 050 | 5 | 649650 L | 649750 L | 649750 GL |
| | 060 | 6 | 649660 L | 649760 L | 649760 GL |
| | 070 | 7 | 649670 L | 649770 L | 649770 GL |

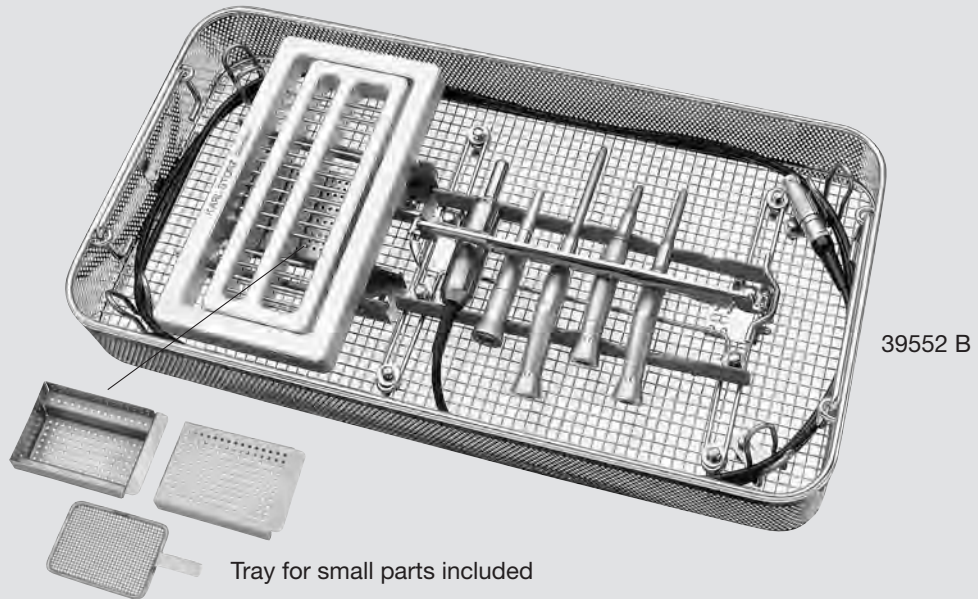
- 649600 L **Standard Straight Shaft Burr**, stainless, size 014 – 070, length 12.5 cm, set of 11
- 649700 L **Diamond Straight Shaft Burr**, stainless, size 014 – 070, length 12.5 cm, set of 11
- 649700 GL **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating, sizes 023 – 070, length 12.5 cm, set of 9, color code: gold
- 280034 **Rack**, for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 209



- 280033 **Rack**, for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm
- 280034 **Rack**, for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm
- 280043 **Rack**, flat model, to hold 21 straight shaft burrs with a length of 7 cm (6 pcs) and 9.5 cm (15 pcs), folding model, sterilizable, size 17.5 x 11.5 x 1.2 cm

Please note: The burrs displayed are not included in the racks.



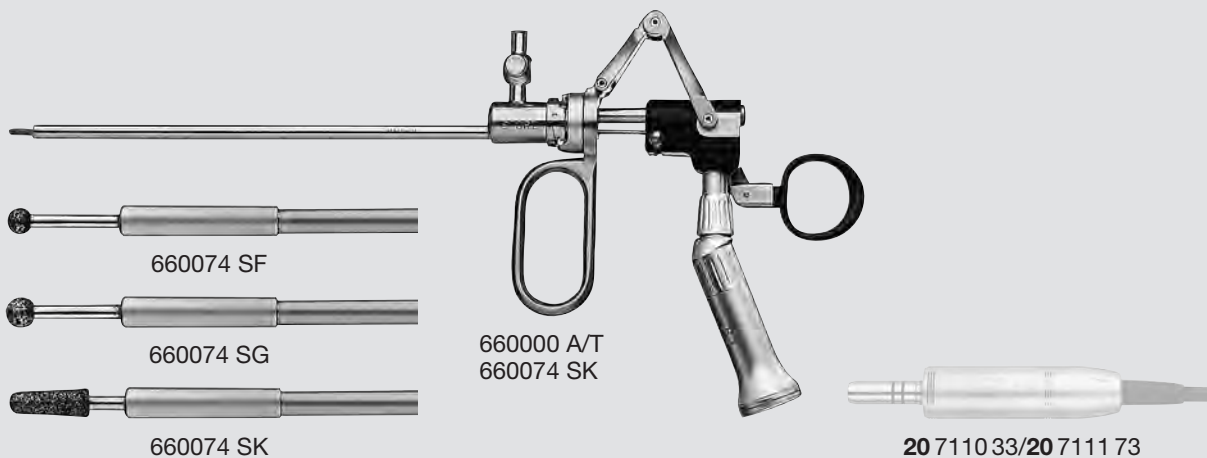
- 39552 A **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **not** included
- for storage of:**
- Up to 6 drill handpieces
 - Connecting cable
 - EC micro motor
 - Small parts
- 39552 B **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **included**
- for storage of:**
- Up to 6 drill handpieces
 - Connecting cable
 - EC micro motor
 - Up to 36 drill bits and burs
 - Small parts

Please note: The instruments displayed are not included in the sterilizing and storage tray.

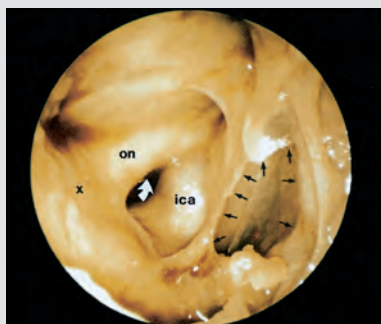
STAMMBERGER-SACHSE Intranasal Drill

Special Features:

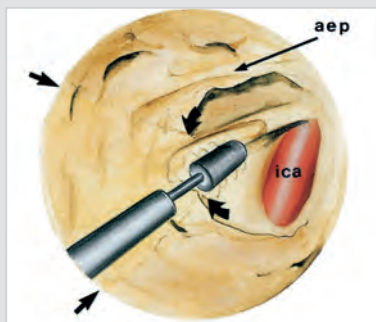
- No fixed coupling to the endoscope makes independent manipulation possible
- The guide sheath remains stationary; only the abraders rotate
- The abrador is retracted into the guide sheath for protection of tissue and endoscope during introduction



660000 STAMMBERGER-SACHSE Intranasal Drill,
including:
Double Ring Sliding Handle, for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece
Guide Sheath, outer diameter 5 mm, with irrigation stopcock
Diamond Abrador, delicate, spherical, diameter 2.5 mm
Diamond Abrador, delicate, spherical, diameter 3 mm
Diamond Abrador, delicate, conical, from diameter 2.5 mm to diameter 3 mm



ica = Arteria carotis interna
aep = Arteria ethmoidalis posterior

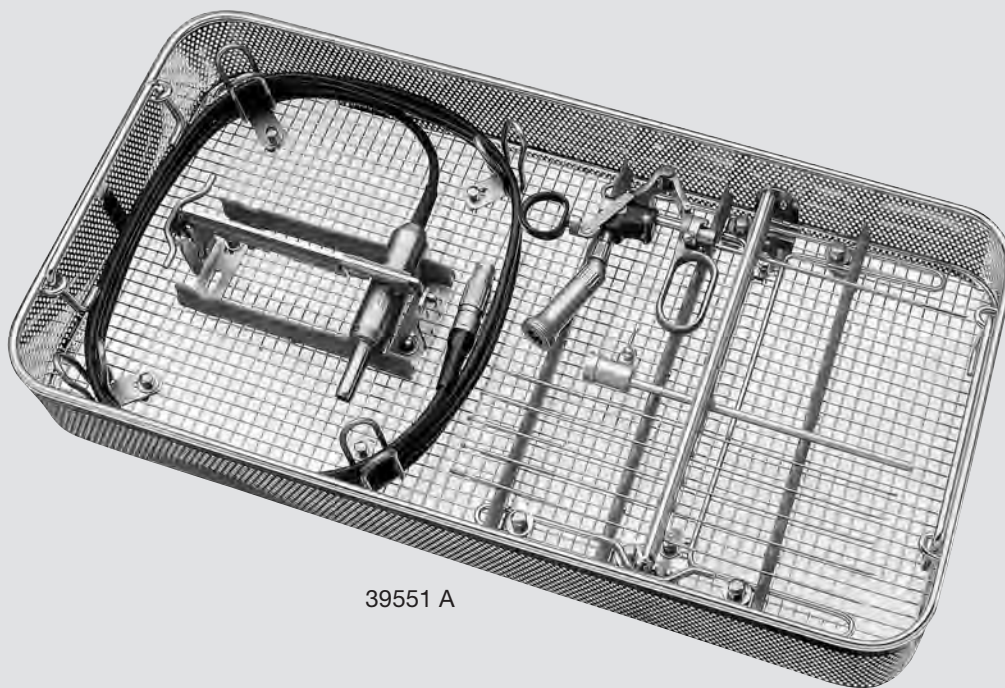


on = Nervus opticus
x = Tuberculum opticum



z = Anulus zinnii

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 209
Components/Spare Parts see chapter 16



39551 A

39551 A **Wire Tray**, provides safe storage of accessories for the KARL STORZ intranasal drill system during cleaning and sterilization

for storage of:

- Intranasal drill
- Connecting cable
- EC micro motor
- Up to 10 diamond abrasors

Please note: The instruments displayed are not included in the sterilizing and storage tray.

UNIDRIVE® S III ENT SCB

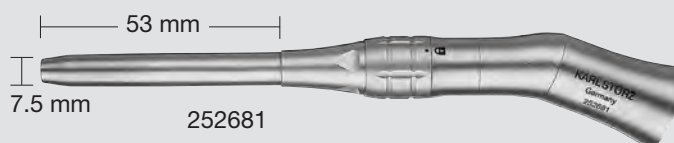
High-Speed Handpieces, angled, 100,000 rpm

For use with High-Speed Drills, shaft diameter 3.17 mm
and with High-Speed Micro Motor 20 7120 33

100,000 rpm
diameter 7.5 mm



20 7120 33



252681



252682

- 252681 **High-Speed Handpiece**, medium, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**
- 252682 **High-Speed Handpiece**, long, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**

UNIDRIVE® S III ENT SCB

High-Speed Handpieces, angled, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm
and with High-Speed Micro Motor 20 7120 33

60,000 rpm
diameter 5.5 mm



20 7120 33



252661



252662



252663

252661 **High-Speed Handpiece**, short, angled, 60,000 rpm,
for use with High-Speed Micro-Motor 20 7120 33

252662 **High-Speed Handpiece**, medium, angled, 60,000 rpm,
for use with High-Speed Micro-Motor 20 7120 33

252663 **High-Speed Handpiece**, long, angled, 60,000 rpm,
for use with High-Speed Micro-Motor 20 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

UNIDRIVE® S III ENT SCB

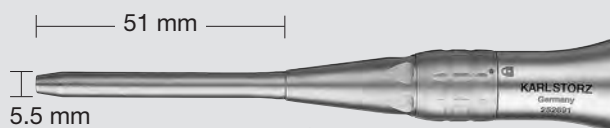
High-Speed Handpieces, straight, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm
and with High-Speed Micro Motor 20 7120 33

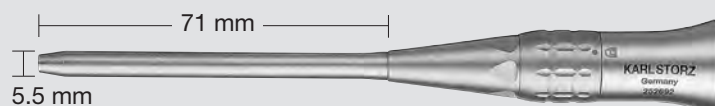
60,000 rpm
diameter 5.5 mm



20 7120 33



252691



252692

252691 **High-Speed Handpiece**, short, straight, 60,000 rpm,
for use with High-Speed Micro-Motor **20 7120 33**

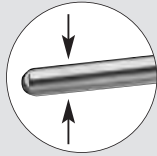
252692 **High-Speed Handpiece**, medium, straight, 60,000 rpm,
for use with High-Speed Micro-Motor **20 7120 33**

UNIDRIVE® S III ENT SCB

High-Speed Handpieces, malleable, slim, angled, 60,000 rpm

60,000 rpm
diameter 4.7 mm

For use with High-Speed Drills, shaft diameter 1 mm
and with High-Speed Micro Motor 20 7120 33

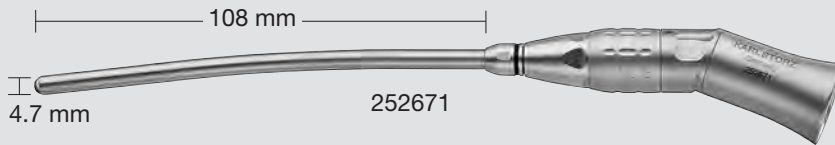


malleable

The handpieces have malleable shafts that can be bent up to 20° according to user requirements.

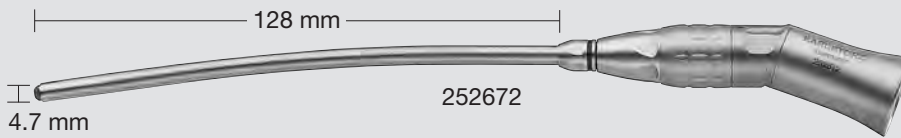


20 7120 33



4.7 mm

252671



4.7 mm

252672

252671 **High-Speed Handpiece**, extra long, malleable, slim, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33

252672 **High-Speed Handpiece**, super long, malleable, slim, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252681



252682



High-Speed Standard Burrs, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | medium | long |
|----------------|----------|----------|
| 1 | 350110 M | – |
| 2 | 350120 M | 350120 L |
| 3 | 350130 M | 350130 L |
| 4 | 350140 M | 350140 L |
| 5 | 350150 M | 350150 L |
| 6 | 350160 M | 350160 L |
| 7 | 350170 M | 350170 L |



High-Speed Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

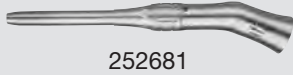
| Diameter in mm | medium | long |
|----------------|----------|----------|
| 1 | 350210 M | – |
| 2 | 350220 M | 350220 L |
| 3 | 350230 M | 350230 L |
| 4 | 350240 M | 350240 L |
| 5 | 350250 M | 350250 L |
| 6 | 350260 M | 350260 L |
| 7 | 350270 M | 350270 L |

UNIDRIVE® S III ENT SCB

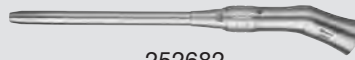
High-Speed Diamond Burrs, High-Speed Acorn,
High-Speed Barrel Burrs, High-Speed Neuro Fluted Burrs

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252681



252682



High-Speed Coarse Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | medium | long |
|----------------|----------|----------|
| 3 | 350330 M | 350330 L |
| 4 | 350340 M | 350340 L |
| 5 | 350350 M | 350350 L |
| 6 | 350360 M | 350360 L |
| 7 | 350370 M | 350370 L |



High-Speed Acorn, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | medium |
|----------------|----------|
| 7.5 | 350675 M |
| 9 | 350690 M |



High-Speed Barrel Burrs, 100,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | medium |
|----------------|----------|
| 6 | 350960 M |
| 9.1 | 350991 M |



High-Speed Neuro Fluted Burrs, 100,000 rpm, **for single use**, sterile, package of 5

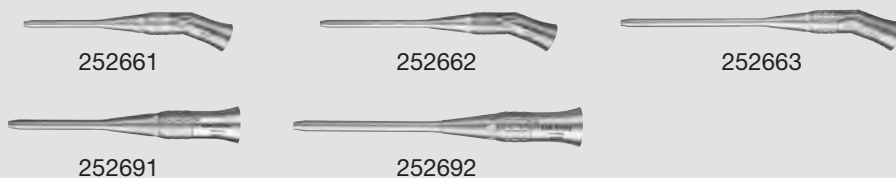
| Diameter in mm | medium | long |
|----------------|----------|----------|
| 1.8 | 350718 M | 350718 L |
| 3 | 350730 M | 350730 L |

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



High-Speed Standard Burrs, 60,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium | long |
|----------------|----------|----------|----------|
| 1 | 330110 S | 330110 M | – |
| 2 | 330120 S | 330120 M | 330120 L |
| 3 | 330130 S | 330130 M | 330130 L |
| 4 | 330140 S | 330140 M | 330140 L |
| 5 | 330150 S | 330150 M | 330150 L |
| 6 | 330160 S | 330160 M | 330160 L |
| 7 | 330170 S | 330170 M | 330170 L |



High-Speed Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

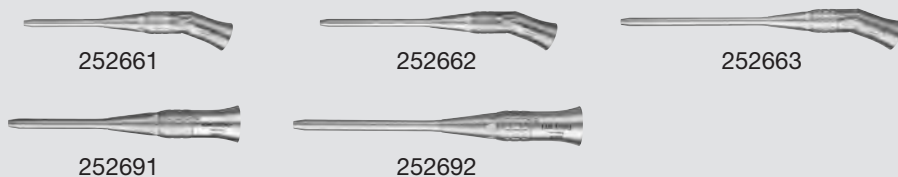
| Diameter in mm | short | medium | long |
|----------------|----------|----------|----------|
| 0.6 | 330206 S | – | – |
| 1 | 330210 S | 330210 M | – |
| 1.5 | 330215 S | – | – |
| 2 | 330220 S | 330220 M | 330220 L |
| 3 | 330230 S | 330230 M | 330230 L |
| 4 | 330240 S | 330240 M | 330240 L |
| 5 | 330250 S | 330250 M | 330250 L |
| 6 | 330260 S | 330260 M | 330260 L |
| 7 | 330270 S | 330270 M | 330270 L |

UNIDRIVE® S III ENT SCB

High-Speed Diamond Burrs, High-Speed Cylinder Burrs,
LINDEMANN High-Speed Fluted Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



High-Speed Coarse Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short | medium | long |
|----------------|----------|----------|----------|
| 3 | 330330 S | 330330 M | 330330 L |
| 4 | 330340 S | 330340 M | 330340 L |
| 5 | 330350 S | 330350 M | 330350 L |
| 6 | 330360 S | 330360 M | 330360 L |
| 7 | 330370 S | 330370 M | 330370 L |



High-Speed Cylinder Burrs, 60,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | short |
|----------------|----------|
| 4 | 330440 S |
| 6 | 330460 S |



LINDEMANN High-Speed Fluted Burrs, 60,000 rpm, **for single use**, sterile, package of 5

| Size in mm (diameter x length) | short |
|-----------------------------------|----------|
| Diameter 2.1/11 | 330511 S |
| Diameter 2.3/26 | 330526 S |

UNIDRIVE® S III ENT SCB

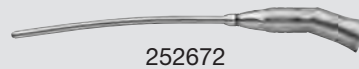
High-Speed Diamond Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 4.7 mm



252671



252672



High-Speed Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | extra long | super long |
|----------------|------------|------------|
| 2 | 320220 EL | 320220 SL |
| 3 | 320230 EL | 320230 SL |
| 4 | 320240 EL | 320240 SL |



High-Speed Coarse Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

| Diameter in mm | extra long | super long |
|----------------|------------|------------|
| 2 | 320320 EL | 320320 SL |
| 3 | 320330 EL | 320330 SL |
| 4 | 320340 EL | 320340 SL |

CMOS Video Rhino-Laryngoscope

Special Features:

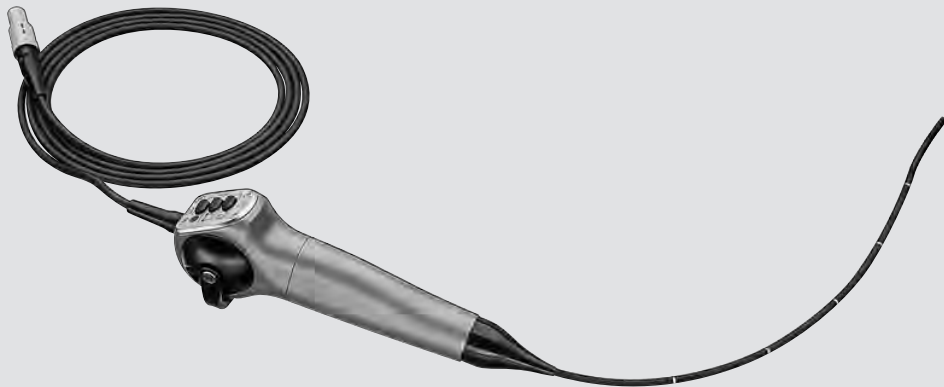
- CMOS chip technology
- Integrated LED light source
- Bidirectional deflection 140°
- Function keys on the endoscope enable the recording of pictures and video sequences as well as the use of the white balance function. These and other functions can be activated on the monitor.
- Can be combined with KARL STORZ C-HUB® system
- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable via EtO-Gas, Sterrad® 100S, Sterrad® NX and Steris® System 1/System 1E

Special Features of Monitor:

- Compact design
- Image can be rotated by 180°
- 7" TFT wide-view angle display with resolution of 800 x 480 pixels
- Resistant ABS plastic housing
- LED illumination
- Documentation of video sequences (MPEG4) and images (JPEG) on SD memory card
- Replay of recorded video sequences and images via monitor
- Cinch video output for connecting external monitor
- Operation with line voltage and rechargeable lithium-ion batteries – also possible during charging
- Operating time with batteries for about 2 hours
- VESA 75 norm for attaching further accessories
- Splash-proof according to IP54



CMOS Video Rhino-Laryngoscope



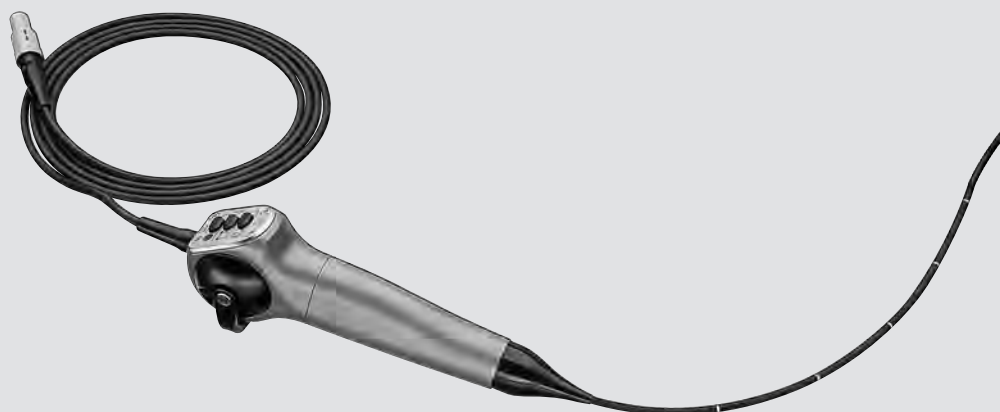
11101 CM

11101 CMK **CMOS Video Rhino-Laryngoscope KIT**
for use with Monitor 8402 ZX
Direction of view: 0°
Angle of view: 85°
Working length: 30 cm
Outer diameter: 3.7 mm
Deflection up/down: 140°/140°

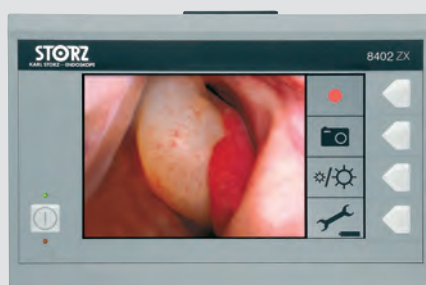
Following accessories are included:

11101 CM **CMOS Video-Rhino-Laryngoskop**
13242 XL **Leakage Tester**, with bulb and manometer
11025 E **Pressure Compensation Cap**, for ventilation
during gas sterilization
27677 FV **Case**

CMOS Video Rhino-Laryngoscope



11101 CM



8402 ZX

11101 CMM CMOS Video Rhino-Laryngoscope with Monitor

Direction of view: 0°
Angle of view: 85°
Working length: 30 cm
Outer diameter: 3.7 mm
Deflection up/down: 140°/140°

Following accessories are included:

11101 CMK **CMOS Video Rhino-Laryngoscope KIT**
8402 ZX **Monitor für CMOS-Endoskope**

Nothing could be easier!

The KARL STORZ C-CAM® can be directly connected to a USB interface on a Medical PC via C-HUB®.

Thanks to its CMOS sensor, the C-CAM® camera head is able to provide a resolution of 640 x 480 pixels. The endoscope can be attached as usual with the proven KARL STORZ grip mechanism.

C-HUB® features an USB interface that can be connected to all Medical PCs, whether desktops or laptops.

It also features an S-Video connection for direct transmission of image data to an external monitor.

If the C-HUB® is connected to a Medical PC, image data or videos can be directly archived on the hard drive and processed with the relevant programs.



20 2901 01

20 2901 01 C-HUB® Camera Control Unit

for use with C-CAM® 20 2901 32, Electronic Module 8402 X or compatible CMOS video endoscopes, interfaces: USB 2.0, S-Video output (NTSC), power socket

including:

C-HUB® Power Supply

S-Video (Y/C) Connecting Cable

USB Connecting Cable



20 2901 32

20 2901 32 C-CAM® Camera Head, 8-pin

one-chip CMOS camera head, resolution 640 x 480, focal length $f = 20$ mm, compatible with C-HUB® 20 2901 01 and C-MAC® 8402 ZX

Further information to C-CAM® and C-HUB® see catalog TELEPRESENCE

Components/Spare Parts see catalog TELEPRESENCE

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X

STORZ
KARL STORZ — ENDOSKOPE

Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable with EtO-Gas, Sterrad® 100S and Steris® System 1/System 1E
- Short insertion tip



8-111

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X



11101 VP

11101 VP **CCD Video Rhino-Laryngoscope, PAL**, for use with IMAGE1,
TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

Direction of view: 0°
Angle of view: 85°
Deflection up/down: 140°/140°
Working length: 30 cm
Outer diameter: 3.7 mm

Following accessories are included:

- 27677 VC **Case**
13242 XL **Leakage Tester**, with bulb and manometer
11025 E **Pressure Compensation Cap**, for ventilation during gas sterilization

Note: The video connecting cables are not included in the set and must be ordered separately!

- 22 2000 77 **Video Endoscope Adaptor**, color systems **PAL/NTSC**,
length 90 cm, for use with GI CCU and IMAGE1
or
20 2130 70 **Video Connecting Cable**, for all KARL STORZ video
endoscopes and TELECAM SL II, TELECAM DX II,
TELE PACK or TELE PACK X, length 60 cm

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Rhino-Laryngoscope

STORZ
KARL STORZ — ENDOSKOPE

TELE PACK X is a portable system that combines a monitor, camera and light source. Integrated data enables the recording of medical examinations or

surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Display

- 15" LCD display
- Image rotation
- 24-bit color intensity
- DVI-D video output for connecting HD monitors

Storage possibilities

- SD card slot
- USB ports for external hard drives, USB flash drives and post-script printers
- Picture gallery for records
- Playback of saved videos
- Print-ready patient report documentation

Illumination

- HiLux 50 Watt high-performance light source
- Color temperature of 5700 K
- Up to 1000 hours lamp operating time

Control

- Membrane keyboard for wipe-down disinfection
- Arrow keys for control
- Connection socket for pedal control

Additional information

- Portable housing
- Universal power supply unit: 100 – 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 450 x 350 x 150 mm
- Weight: 7 kg



20045001-EN

200450 01-EN TELE PACK X

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC**, with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

Technical information see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

Rhino-Fiberscopes



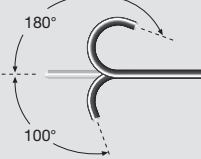


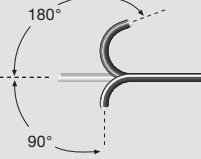


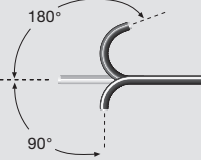


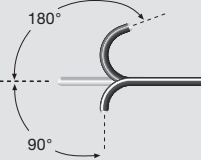
Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Simple leakage test takes only a few minutes and requires no additional accessories
- Sterilizable with EtO gas, Steris® and Sterrad®



Rhino-Fiberscopes

Overview

| Rhino-Fiberscopes | Order No. | | Deflection | Direction of View | Direction of View |
|--|-----------|---|--|-------------------|-------------------|
| 3.5 x 340 mm  | 11001 RD |  |  | 0° | 90° |
| 3.5 x 300 mm  | 11101 RP |  |  | 0° | 70° |
| 2.5 x 270 mm  | 11101 SK |  |  | 0° | 90° |
| 2.5 x 370 mm  | 11101 SP |  |  | 0° | 90° |

Following accessories are included:



27677 BB

Case

27677 RR

Case

11025 E

Pressure Compensation Cap, for ventilation during gas sterilization

13242 XL

Leakage Tester, with bulb and manometer

13272

Mouthpiece

27651 AK

Cleaning Brush, round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm

11003 KA

Biopsy Forceps, flexible, double action jaws, oval, diameter 1 mm, length 60 cm

11003 KB

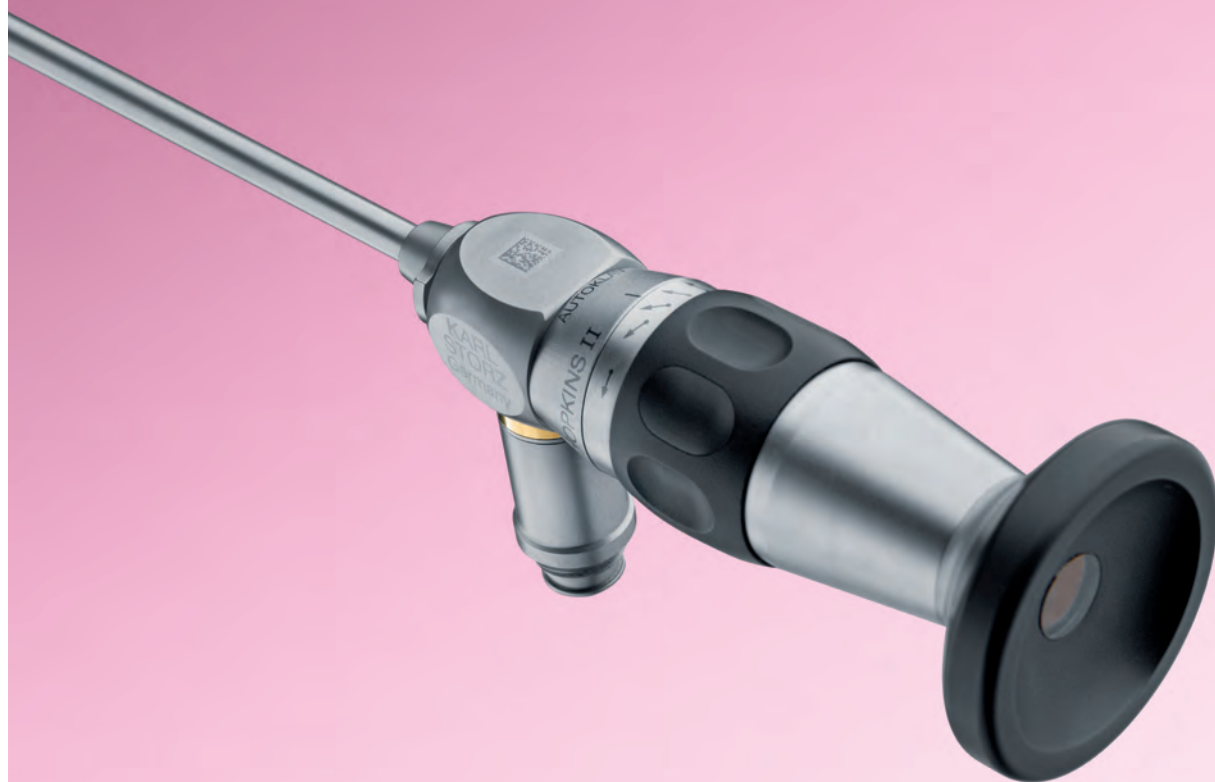
Grasping Forceps, flexible, double action jaws, diameter 1 mm, length 60 cm

| Working Length | Working Channel Inner Diameter | Distal Tip Outer Diameter | Case | Accessories included | | | | | | |
|----------------|--------------------------------|---------------------------|----------|---------------------------|----------------|-------------|----------------|----------------|------------------|--|
| | | | | Pressure Compensation Cap | Leakage Tester | Mouth Piece | Cleaning Brush | Biopsy Forceps | Grasping Forceps | |
| 34 cm | 1.5 mm | 3.5 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 AK | 11003 KA | 11003 KB | |
| 30 cm | – | 3.5 mm | 27677 RR | 11025 E | 13242 XL | – | – | – | – | |
| 27 cm | – | 2.5 mm | 27677 RR | 11025 E | 13242 XL | – | – | – | – | |
| 37 cm | – | 2.5 mm | 27677 RR | 11025 E | 13242 XL | – | – | – | – | |

Optional accessories:



- 15006 B "ULTRA STOP" Antifog Solution, 25 ml, pipette bottle
- 15006 C "ULTRA STOP" Antifog Solution, 30 ml, sterile, pierce bottle
- 15006 D "ULTRA STOP" Antifog Solution, 15 ml, atomizer bottle



 **EndoCAMEleon**® ENT

ENDOCAMELEON® ENT



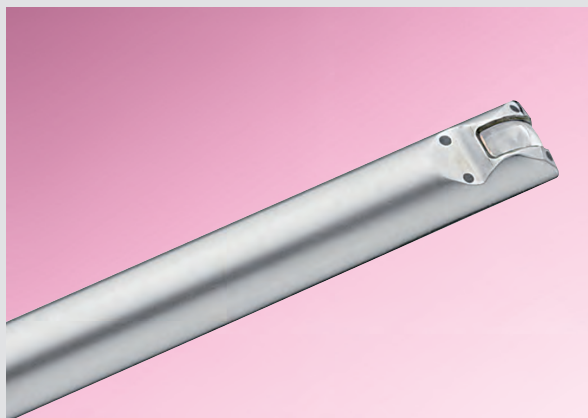
ENDOCAMELEON® ENT is the newest member of the HOPKINS® family of rod-lens telescopes.

A simple turn of the adjusting knob enables the user to select the direction of view between 15° and 90°. This enables the surgeon to select the desired direction of view.

ENDOCAMELEON® ENT significantly enhances orientation during use without the time-consuming change-

over of telescopes, thereby ensuring safe and smooth work.

ENDOCAMELEON® ENT combines the user comfort of the proven HOPKINS® endoscopes with a variable direction of view.



The familiar ergonomics and handling of conventional telescopes is enhanced with the additional convenience of a variable direction of view.



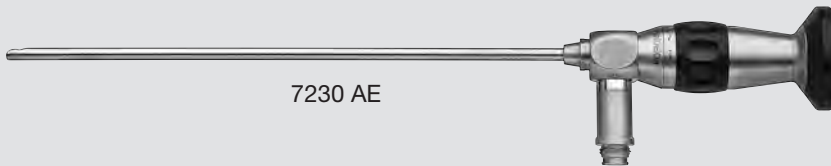
The direction of view is adjusted by a mere turn of the adjusting knob at the proximal end of the ENDOCAMELEON® ENT.



Diameter 4 mm, length 18 cm

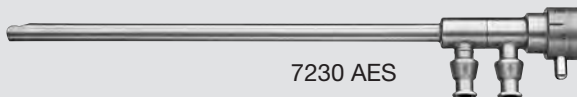
Special Features:

- Variable direction of view from 15° – 90°
- Easy-to-use adjusting knob selects the desired direction of view
- HOPKINS® telescope with rod-lens system
- Diameter 4 mm, length 18 cm
- Standard eyepiece fits all camera heads



7230 AE

ENDOCAMELEON® ENT HOPKINS® Telescope, diameter 4 mm, length 18 cm, **autoclavable**, variable direction of view from 15° – 90°, adjustment knob for selecting the desired direction of view, fiber optic light transmission incorporated, color code: gold



7230 AES

Irrigation and Suction Sheath, outer diameter 4.8 x 6 mm, working length 14 cm, for use with ENDOCAMELEON® ENT HOPKINS® Telescope 7230 AE and KARL STORZ lens irrigation system CLEARVISION® II

ENDOCAMELEON® ENT



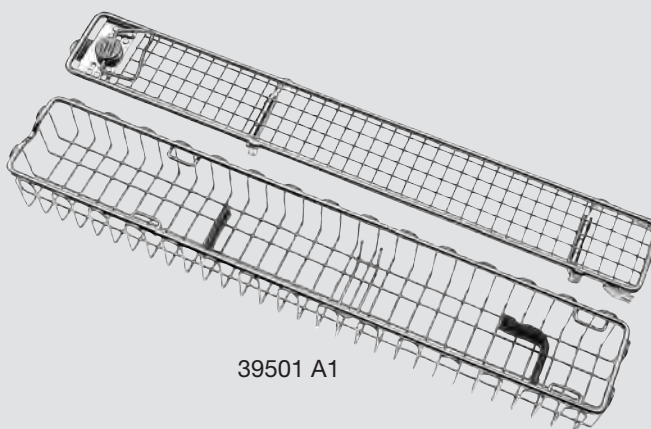
Accessories:



495 NA

495 NA

Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 230 cm



39501 A1

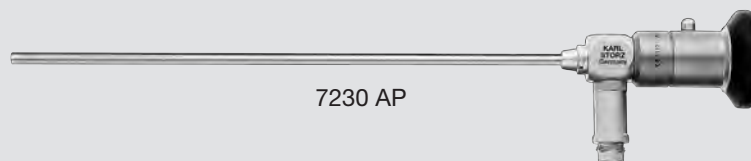
39501 A1

Wire Tray for Cleaning, Sterilization and Storage of one rigid endoscope, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 290 x 60 x 52 mm, for rigid endoscopes up to diameter 5 mm and working length 20 cm

HOPKINS® II Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
of Nose and Nasal Sinuses, diameter 4 mm, length 18 cm

For Diagnosis and Early Detection of Carcinomas



7230 AP



7230 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



7230 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red



7230 FP

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: black

Fluid Light Cables



495 FO

Fluid Light Cable, diameter 3 mm, length 180 cm

495 FP

Desgleichen, Länge 250 cm

495 FS

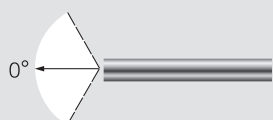
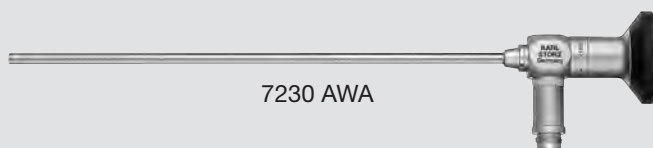
Fluid Light Cable, diameter 2 mm, length 220 cm

For high performance D-LIGHT C/AF light system as well as ENDOVISION® TRICAM® SL II PDD video systems for use with HOPKINS® II Telescopes 7230 AP – FP for autofluorescence/photodynamic diagnosis (PDD) see chapter 13, FLUORESCENCE and catalog TELEPRESENCE

HOPKINS® II Telescopes

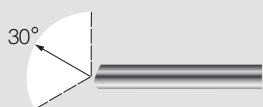
for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 4 mm, length 18 cm



7230 AWA

HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7230 BWA

HOPKINS® II Wide Angle Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



7230 FWA

HOPKINS® II Wide Angle Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



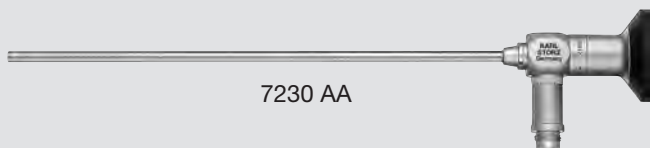
7230 CWA

HOPKINS® II Wide Angle Lateral Telescope 70°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 4 mm, length 18 cm



7230 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7230 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



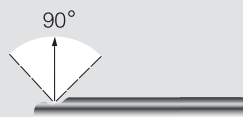
7230 FA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



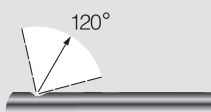
7230 CA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow



7230 DA

HOPKINS® II Lateral Telescope 90°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue



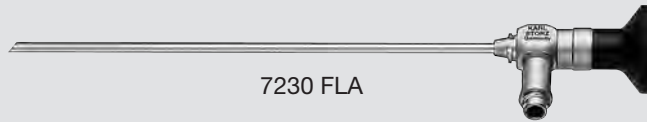
7230 EA

HOPKINS® II Retrograde Telescope 120°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: white

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 4 mm, length 18 cm

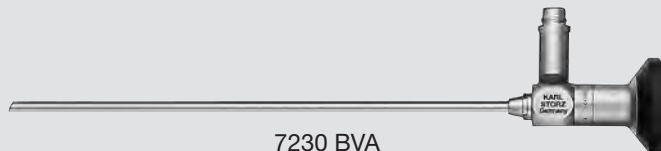


7230 FLA



7230 FLA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on the left, fiber optic light transmission incorporated, color code: black



7230 BVA



7230 BVA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on upper side, fiber optic light transmission incorporated, color code: red



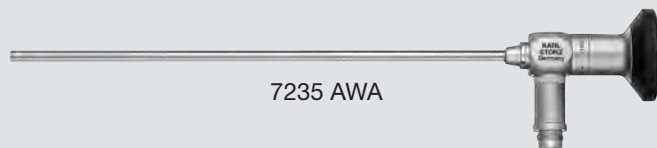
7230 FVA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on upper side, fiber optic light transmission incorporated, color code: black

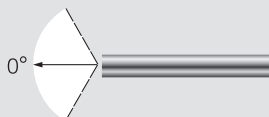


7230 CVA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on upper side, fiber optic light transmission incorporated, color code: yellow



7235 AWA



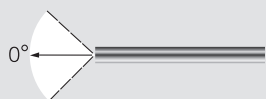
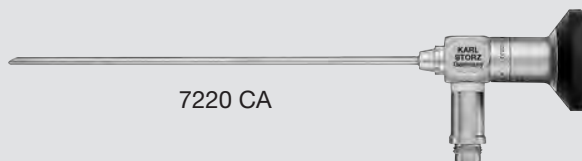
7235 AWA

HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view, diameter 5 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 3 mm, length 14 cm, with extra large image



7220 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7220 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



7220 FA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



7220 FVA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 3 mm, length 14 cm, **autoklavierbar**, connection for fiber optic light cable upwards, fiber optic light transmission incorporated, color code: black



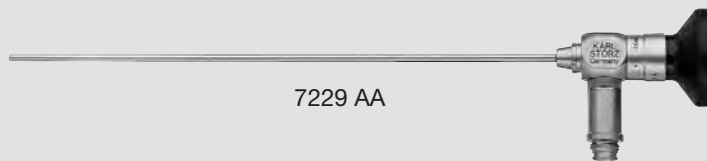
7220 CA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

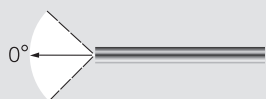
HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 2.7 mm, length 18 cm, with extra large image



7229 AA



7229 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7229 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



7229 FA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



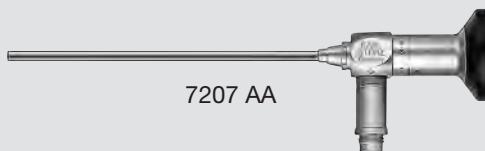
7229 CA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 2.7 mm, length 11 cm



7207 AA



7207 AA

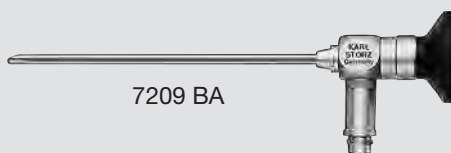
HOPKINS® II Straight Forward Telescope 0°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7207 BA

HOPKINS® II Forward-Oblique Telescope 30°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Diameter 3 mm, length 11 cm



7209 BA



7209 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 3 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Fiber Optic Light Cable



495 NL

495 NL

Fiber Optic Light Cable, diameter 3.5 mm, length 180 cm

495 NA

Same, length 230 cm

Additional Light Cables see catalog TELEPRESENCE



11301 D4



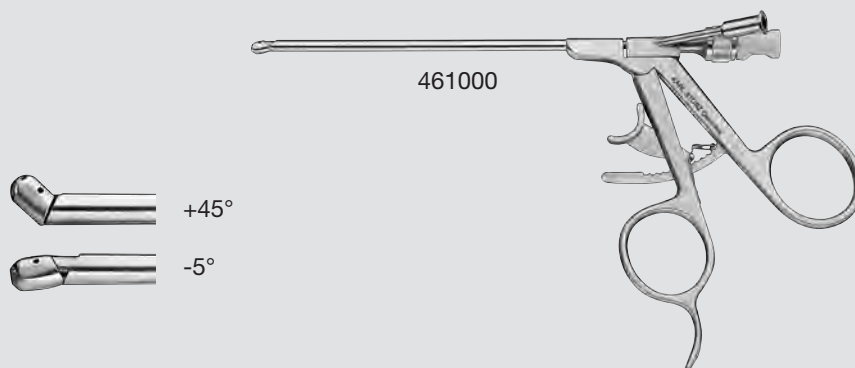
11301 DG

- 11301 D4 **Battery Light Source LED for Endoscopes**, with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**, with 2 Photo Batteries 121306 P
- 11301 DE **Battery Light Source LED for Endoscopes**, rechargeable, with click connection, brightness > 110 lm / > 150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
- 11301 DF **Same**, with fast screw thread
- 11301 DG **Charging Unit**, for 11301 DE/11301 DF, for two LED battery light sources, with fixed integrated power supply and adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, **suitable for wipe disinfection**
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm

LASER Rhinoscopy

LASER Application Sheath

LEUNIG-GREVERS LASER Application Instrument



461000 LEUNIG-GREVERS **LASER Application Instrument**, for endonasal LASER surgery, forceps-shaped, for endonasal LASER treatment, handle with ratchet, sheath with channel for introduction of LASER probes up to 1 mm in diameter, distal tip continuously articulating from -5° up to $+45^{\circ}$, with integrated smoke evacuation channel, working length 10 cm

723527 L **Cleaning Tube**, for telescope channel of LASER Rhinoscope Sheaths 722010 A – B, LUER-Lock, length 24 cm

Components/Spare Parts see chapter 16



723770

STAMMBERGER Telescope Handle, flat, standard model, length 11 cm, for use with HOPKINS® straight forward telescopes 0° with diameter 4 mm and length 18 cm



723771

STAMMBERGER Telescope Handle, round, length 14.5 cm, for use with HOPKINS® telescopes 30° – 120° with length 18 cm



723772

STAMMBERGER Telescope Handle, round, standard model, length 11 cm, for use with HOPKINS® telescopes 30° – 120° with diameter 4 mm and length 18 cm



723773

STAMMBERGER Telescope Handle, round, length 6.5 cm, for use with HOPKINS® telescopes with diameter 2.7/3 mm and length 11 cm



723774

STAMMBERGER Telescope Handle, round, length 11 cm, for use with HOPKINS® telescopes with diameter 1.9/2.7 mm and length 18 cm



723750 A

Protection Tube, for HOPKINS® telescopes with length of 6 – 11 cm



723750 B

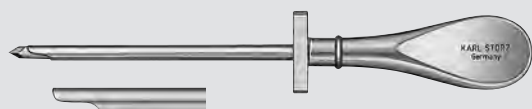
Protection Tube, working length 19.7 cm, for use with HOPKINS® telescopes with a length of 18 cm



39105 A

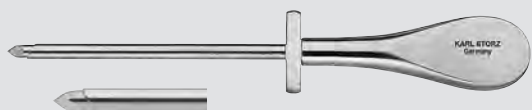
39105 A

Cleaning Adaptor, for manual or machine cleaning of instruments without irrigation port from 1.5 to 5 mm diameter



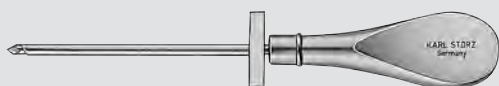
723005 A

Trocar for Sinoscopy, with beak, outer diameter 5 mm, length of the cannula 8.5 cm, for use with HOPKINS® telescopes with diameter 4 mm



723005 B

Trocar for Sinoscopy, oblique beak, outer diameter 5 mm, length of the cannula 8.5 cm, for use with HOPKINS® telescopes with diameter 4 mm



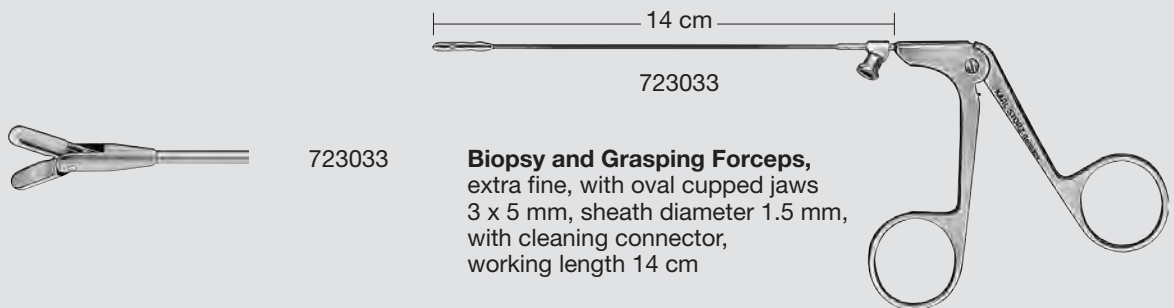
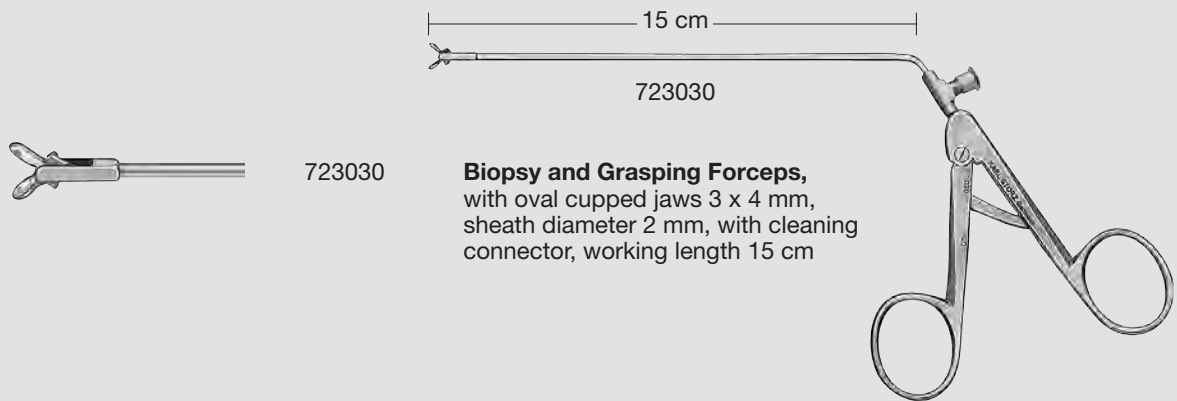
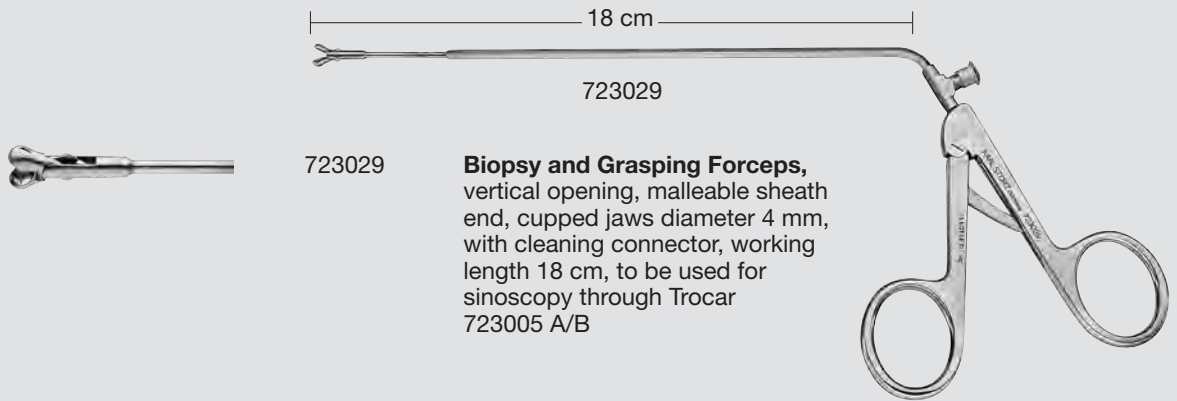
723103 B

Trocar for Sinoscopy, oblique beak, outer diameter 3.3 mm, length of the cannula 7.5 cm, for use with HOPKINS® telescopes with diameter 2.7 mm

FESS Instruments

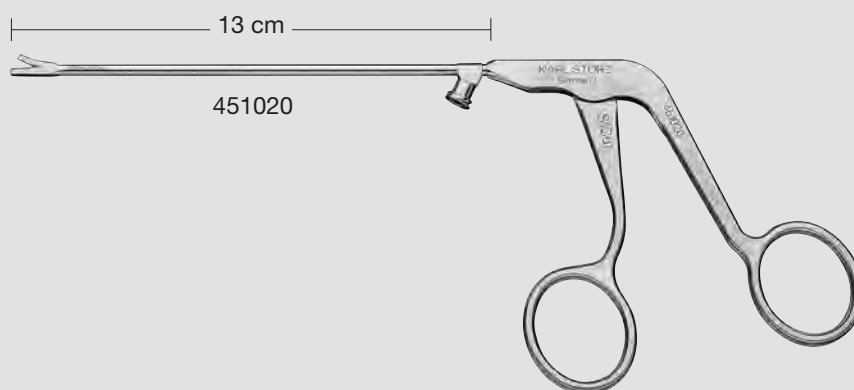
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

Biopsy and Grasping Forceps working length 14, 15 and 18 cm



Special Features:

- Flat jaws
- Through-cutting and backward-cutting versions also available



456021

GRÜNWALD-HENKE **SilCut® Nasal Forceps**, straight, not through-cutting, BLAKESLEY shape, size 1, with cleaning connector, working length 13 cm



456521

Same, 45° upturned



451020

GRÜNWALD-HENKE **SilCut® Nasal Cutting Forceps**, straight, through-cutting, BLAKESLEY shape, size 0, with cleaning connector, working length 13 cm



451021

Same, size 1



451520

GRÜNWALD-HENKE **SilCut® Nasal Cutting Forceps**, 45° upturned, through-cutting, BLAKESLEY shape, size 0, with cleaning connector, working length 13 cm



451521

Same, size 1



452011

MACKAY-GRÜNWALD SilCut® Nasal Cutting Forceps, straight, through-cutting, size 1.8 x 3 mm, with cleaning connector, working length 13 cm



452021

SilCut® Nasal Cutting Forceps, straight, through-cutting, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452022

Same, width of cut 2.7 mm



452023

Same, width of cut 3.4 mm



452031

SilCut® Nasal Cutting Forceps, jaws upturned 15°, through-cutting, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452032

Same, width of cut 2.7 mm



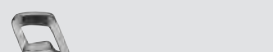
452033

Same, width of cut 3.4 mm



459110

STAMMBERGER SilCut® Antrum Punch, upbiting backward cutting, with cleaning connector, working length 10 cm



459151

Same, right side downward and forward cutting



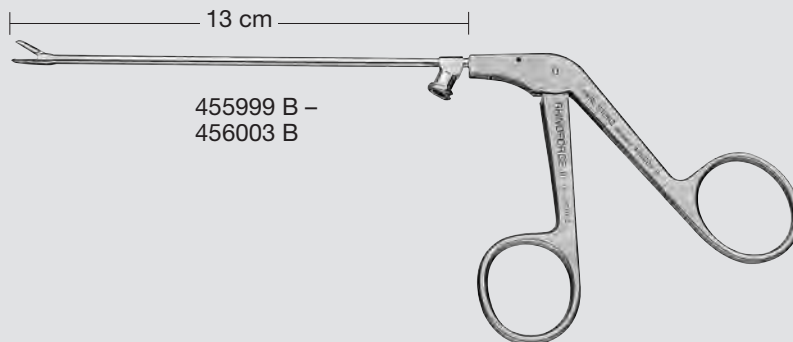
459152

Same, left side downward and forward cutting

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

BLAKESLEY RHINOFORCE® II Nasal Forceps



455999 B

BLAKESLEY RHINOFORCE® II Nasal Forceps, straight, size 00, with cleaning connector, working length 13 cm



456000 B

Same, size 0



456001 B

Same, size 1



456002 B

Same, size 2



456003 B

Same, size 3



456499 B

BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps, 45° upturned, size 00, with cleaning connector, working length 13 cm



456500 B

Same, size 0



456501 B

Same, size 1



456502 B

Same, size 2

Recommended stainless steel trays for sterilization 39910 SC see catalog HYGIENE

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



456801 B

BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps**, 90° upturned, size 1, with cleaning connector, working length 13 cm



456802 B

Same, size 2



456803 B

Same, size 3



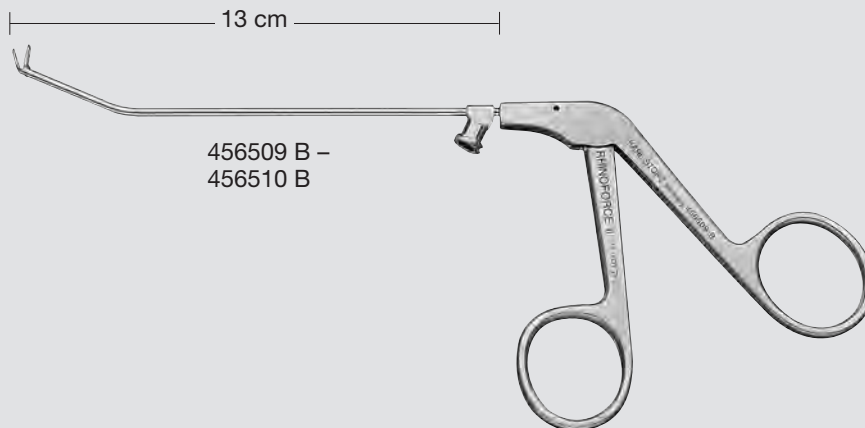
456601 B

BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps**, curved to right 45°, size 1, with cleaning connector, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

BLAKESLEY-CASTELNUOVO RHINOFORCE® II Nasal Forceps



456509 B -
456510 B



456009 B

BLAKESLEY-CASTELNUOVO **RHINOFORCE® II**
Nasal Forceps, end of sheath 25° upturned, with
straight jaw, width 2.5 mm, with cleaning connector,
working length 13 cm



456010 B

Same, width 3 mm



456509 B

BLAKESLEY-CASTELNUOVO **RHINOFORCE® II**
Nasal Forceps, end of sheath 25° upturned, jaws
45° upturned, width 2.5 mm, with cleaning connector,
working length 13 cm



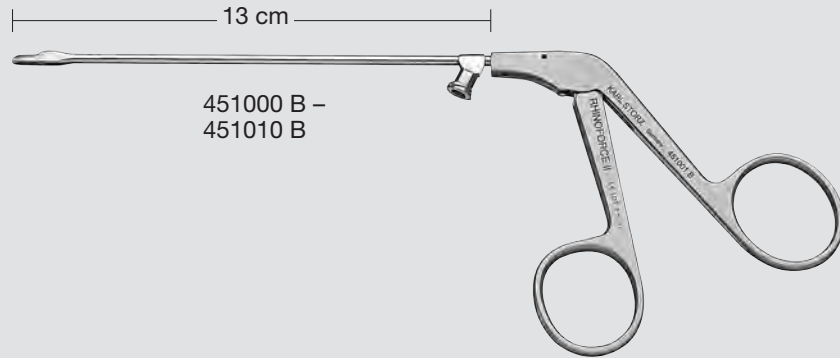
456510 B

Same, width 3 mm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

GRÜNWALD-HENKE/CASTELNUOVO RHINOFORCE® II Nasal Forceps, through-cutting



451000 B –
451010 B



451000 B

GRÜNWALD-HENKE **RHINOFORCE® II Nasal Cutting Forceps**, straight, through-cutting, for a smooth cut, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



451001 B
451002 B

Same, size 1, width 3.5 mm
Same, size 2, width 4 mm



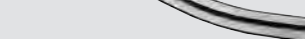
451500 B

GRÜNWALD-HENKE **RHINOFORCE® II Nasal Cutting Forceps**, 45° upturned, through-cutting, for a smooth cut, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



451501 B
451502 B

Same, size 1, width 3.5 mm
Same, size 2, width 4 mm



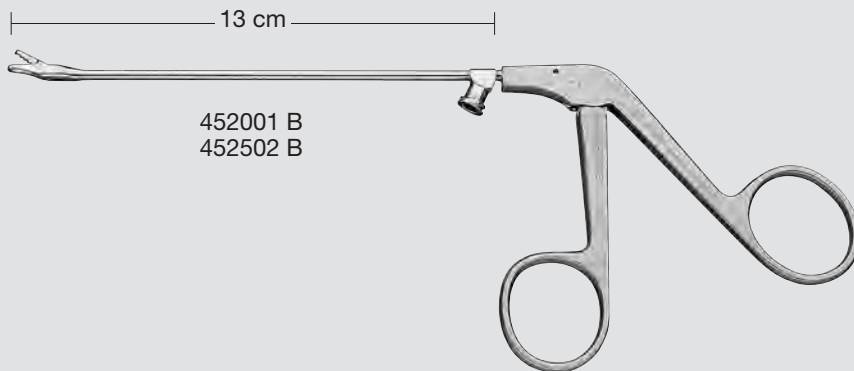
451510 B

CASTELNUOVO **RHINOFORCE® II Nasal Cutting Forceps**, end of sheath 25° upturned, through-cutting, jaws 45° upturned, BLAKESLEY shape, width 3 mm, with cleaning connector, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Forceps, through-cutting



452001 B

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Cutting Forceps, straight, through-cutting, extra delicate, for a smooth cut, 8 x 3 mm, size 1, with cleaning connector, working length 13 cm



452002 B

Same, 11.5 x 3.5 mm, size 2



452501 B

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Cutting Forceps, 45° upturned, through-cutting, extra delicate, for a smooth cut, 8 x 3 mm, size 1, with cleaning connector, working length 13 cm



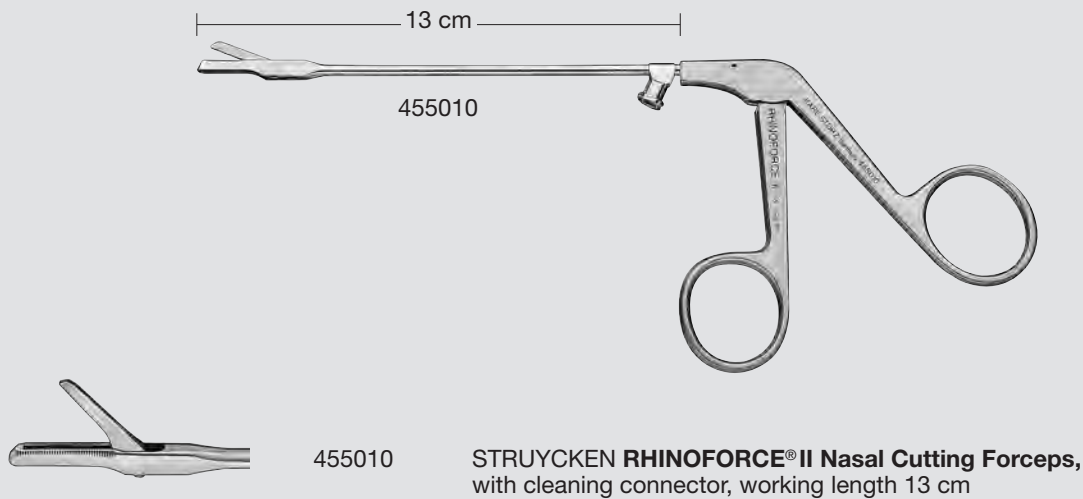
452502 B

Same, 11.5 x 3.5 mm, size 2

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps



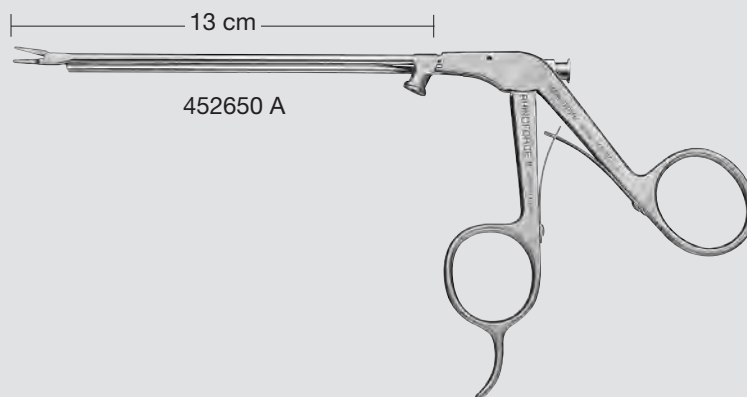
STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps,
with cleaning connector, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

MONTGOMERY-YOUNGS RHINOFORCE® II Clip Applicator,
for endonasal endoscopic sphenopalatine artery ligature

Winner of the **2006**
Cutler Surgical Prize



The **Cutlers' Surgical Prize** is one of the most prestigious annual awards for innovation in the design or application of surgical instruments or techniques. The prize as well as the Clarke medal are awarded by the surgical association and the president of the Royal College of Surgeons of England.



452650 A MONTGOMERY-YOUNGS **RHINOFORCE® II**
Clip Applicator, for endonasal endoscopic
sphenopalatine artery ligature, with suction
channel, handle with spring, straight, with
cleaning connector, working length 13 cm,
for use with Titanium Clips 8665 T



452650 C **Same**, jaws angled to the right

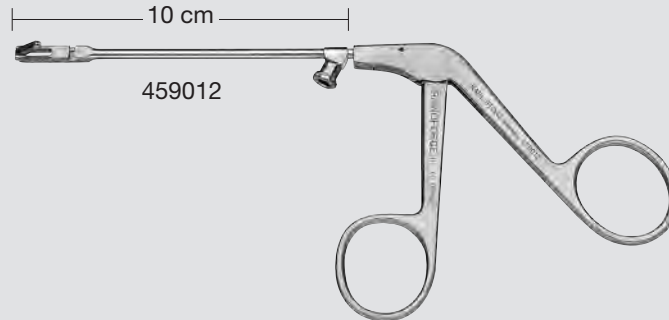


452650 D **Same**, jaws angled to the left

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Antrum Punch, backward cutting



459010

STAMMBERGER RHINOFORCE® II Antrum Punch,
upside backward cutting, with cleaning connector,
working length 10 cm



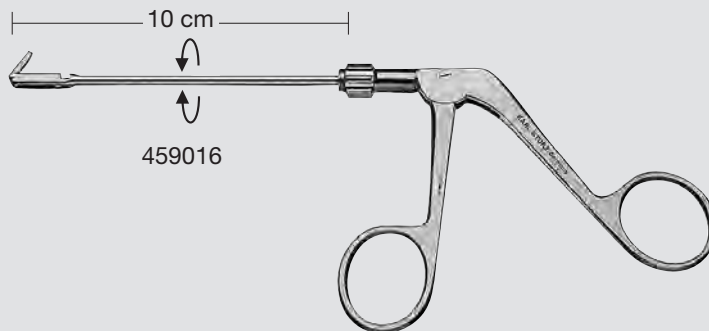
459011

Same, right side backward cutting



459012

Same, left side backward cutting



459016

STAMMBERGER Antrum Punch, backward
cutting, sheath 360° rotatable, with fixing screw,
dismantling, working length 10 cm, for use with
Cleaning Adaptor 459015 LL



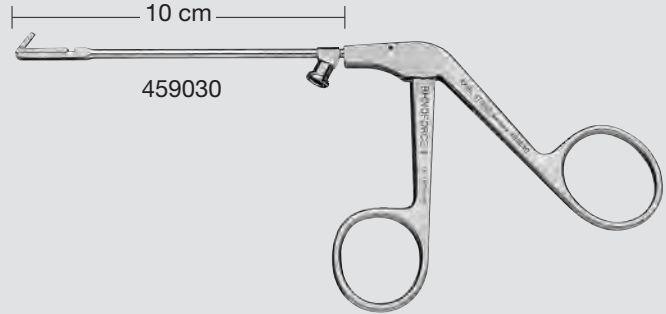
459015 LL

Cleaning Adaptor

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Antrum Punches, pediatric size, backward cutting



459030

STAMMBERGER **RHINOFORCE® II Antrum Punch**, small pediatric size, slender, upward backward cutting, with cleaning connector, working length 10 cm



459031

Same, right side backward cutting



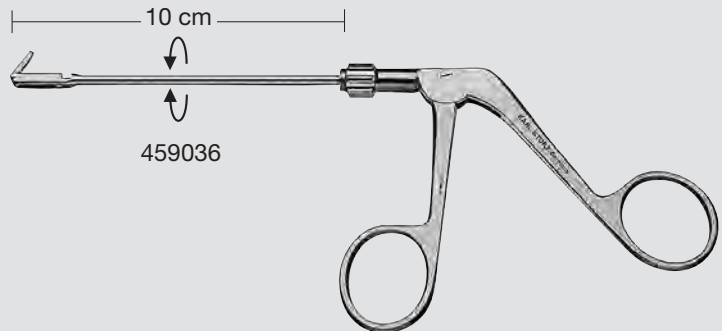
459032

Same, left side backward cutting



459033

Same, downside backward cutting



459036

STAMMBERGER **Antrum Punch**, small pediatric size, slender, backward cutting, sheath 360° rotating, with fixing screw, dismantling, working length 10 cm, for use with Cleaning Adaptor 459015 LL



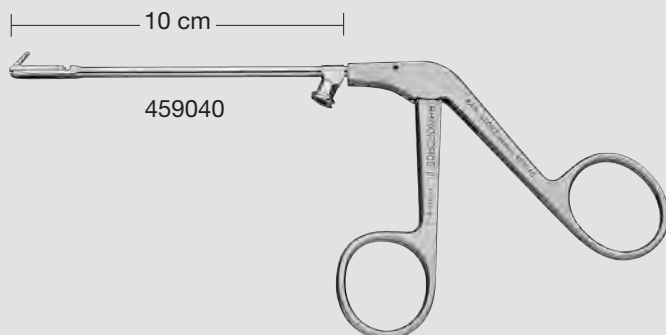
459015 LL

Cleaning Adaptor

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

PARSONS RHINOFORCE® II Punches, backward cutting



459040

PARSONS RHINOFORCE® II Punch,
for resection of the uncinat
process, upward backward
cutting, movable jaw with round tip,
diameter 2.5 mm, with cleaning
connector, working length 10 cm



459041

Same, right side backward
cutting



459042

Same, left side backward
cutting

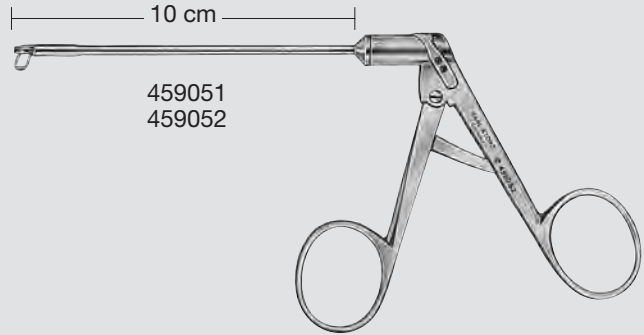
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Antrum Punch, sidebiting downward and forward cutting

The sidebiting antrum punch forceps designed in conjunction with Professor Heinz STAMMBERGER are crucial for removing remnants of the inferior unciniate process. The forceps are available in left and right version and are designed to cut downward and forward. The forceps design allows individual shaping of the antrostomy opening and extension of the antro-

stomy inferiorly and posteriorly. Use of the new sidebiting forceps can help reduce the time required for a middle meatal antrostomy. The sidebiting forceps can also be used to connect an accessory ostium to the natural maxillary ostium, as well as for partial resection of the inferior orbital floor in orbital decompression procedures.



459051

STAMMBERGER Antrum Punch,
right side downward and forward
cutting, working length 10 cm



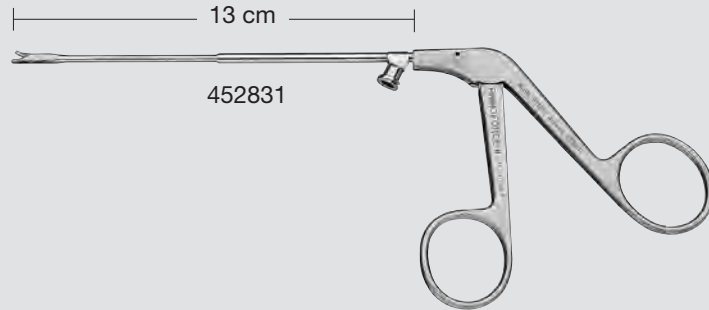
459052

Same, left side downward and
forward cutting

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

RHINOFORCE® II Miniature Nasal Forceps, flat jaws, through-cutting



452831

RHINOFORCE® II Miniature Nasal Forceps, with extra fine flat jaws, through-cutting, straight sheath, straight jaws, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452832

Same, jaws 45° upturned



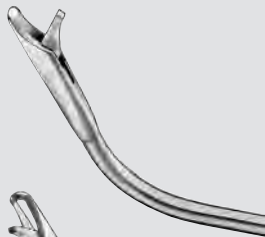
452833

Same, sheath curved 30°, straight jaws



452834

Same, sheath curved 30°, jaws 45° upturned



452841

CASTELNUOVO RHINOFORCE® II Miniature Nasal Forceps, with extra fine flat jaws, through-cutting, 65° upturned, backward opening, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452841 L

Same, left side opening



452841 R

Same, right side opening

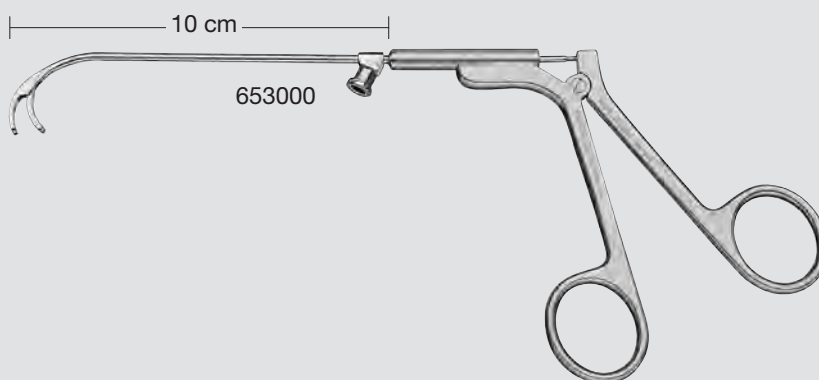
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

HEUWIESER Antrum Grasping Forceps

Special Features:

- Short, sharp-radius curve starting at the joint of the jaws
- Far-reaching jaws open backwards
- For endonasal removal of cysts and polyps
- With the telescope introduced separately the forceps sheath with a diameter of 2.5 mm permits handling and visualization inside the antrum
- Distal end of the forceps is sharply curved like an antrum cannula thus making it possible to introduce the working end far into the antrum; the fundus of the antrum is reached down to the alveolar sinus
- Fenestrated jaws enable unobstructed view of anatomic structures and the position of the jaws, thus facilitating localized work with grasping forceps
- Also suitable for removing fish bones and hairs from the hypopharynx



653000 **HEUWIESER Antrum Grasping Forceps**, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120° backward opening, with cleaning connector, working length 10 cm

653001 **Same**, jaws curved upwards

653002 **Same**, jaws curved to right

653003 **Same**, jaws curved to left

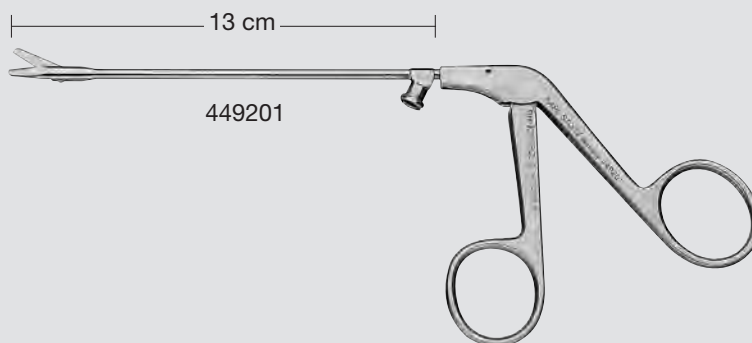
653005 **HEUWIESER Antrum Grasping Forceps**, with extra long curve for anterior alveolar recess, fixed jaw curved downwards 115°, movable jaw backward opening up to 140°, with cleaning connector, working length 10 cm









653006 **Same**, fixed jaw curved downwards 140°, movable jaw backward opening 155°

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

RHINOFORCE® II Nasal Scissors



| | | |
|---|--------|--|
|  | 449201 | RHINOFORCE® II Nasal Scissors , straight, with cleaning connector, working length 13 cm |
|  | 449202 | Same , curved to right |
|  | 449203 | Same , curved to left |
|  | 449204 | RHINOFORCE® II Nasal Scissors , cutting blades curved upwards, to cut the anterior part of the middle turbinate in case of narrow nose and to prevent postoperative synechia, with cleaning connector, working length 13 cm |
|  | 449205 | Same , curved downwards |
|  | 449211 | RHINOFORCE® II Nasal Scissors , straight, small model, length of cut 10 mm, with cleaning connector, working length 13 cm |
|  | 449212 | Same , curved to right |
|  | 449213 | Same , curved to left |

FESS Instruments

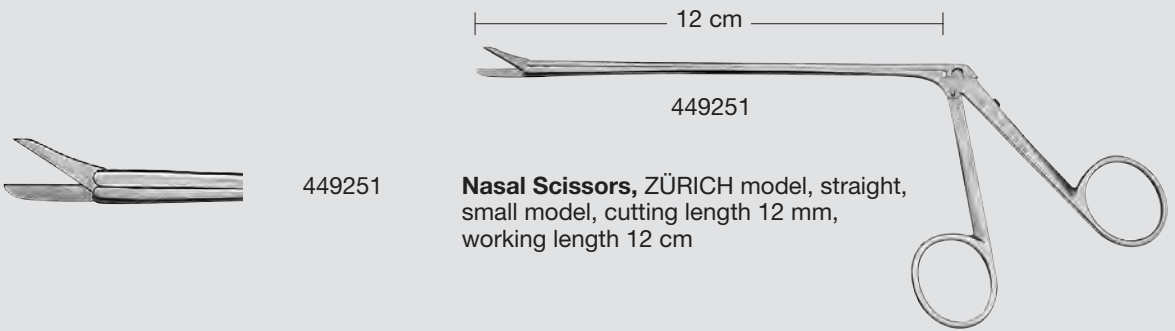
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

Nasal Scissors



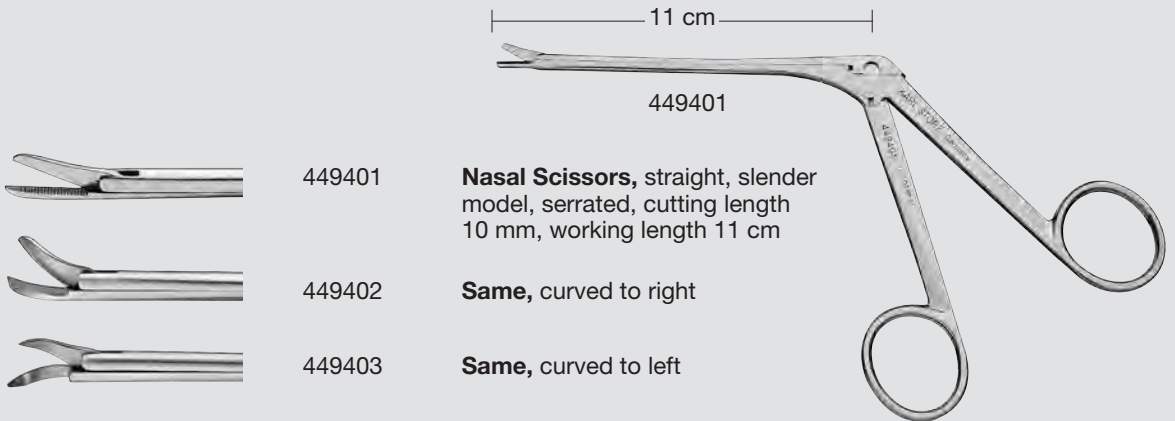
449250

Nasal Scissors, ZÜRICH model, straight,
large model, cutting length 18 mm,
working length 14 cm



449251

Nasal Scissors, ZÜRICH model, straight,
small model, cutting length 12 mm,
working length 12 cm



449401

Nasal Scissors, straight, slender
model, serrated, cutting length
10 mm, working length 11 cm

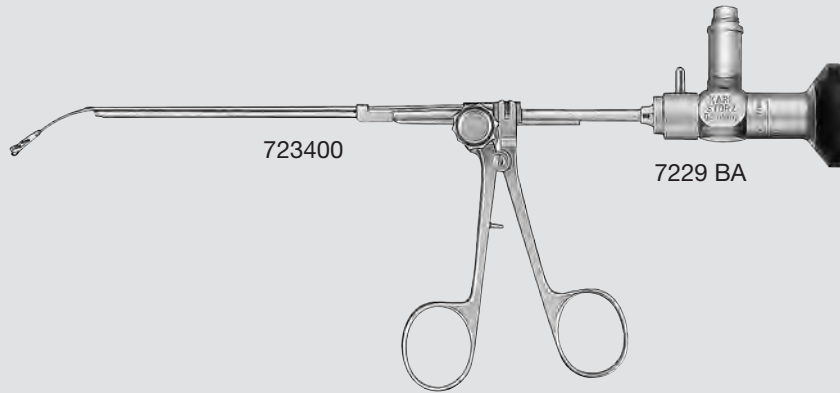
449402

Same, curved to right

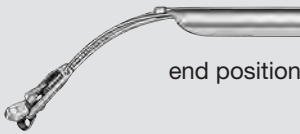
449403

Same, curved to left

Optical Biopsy and Grasping Forceps, retractable



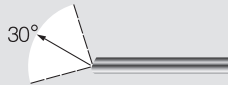
starting position



end position

723400

Optical Biopsy and Grasping Forceps,
flexible, for use with HOPKINS® II Telescope
7229 BA and Trocars 723005 A/B



7229 BA

HOPKINS® II Forward-Oblique Telescope 30°,
enlarged view, diameter 2.7 mm, length 18 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: red

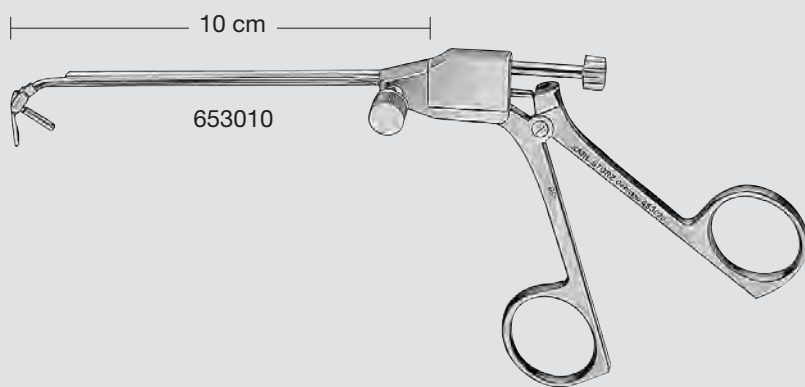
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

HEUWIESER Antrum Grasping Forceps, double action jaws

Special Features:

- Enlarged action radius of jaws compared to that of HEUWIESER standard forceps
- Retrograde position of both jaws adjustable: upper jaw up to 120° angle, inferior jaw up to 180°, opens backwards



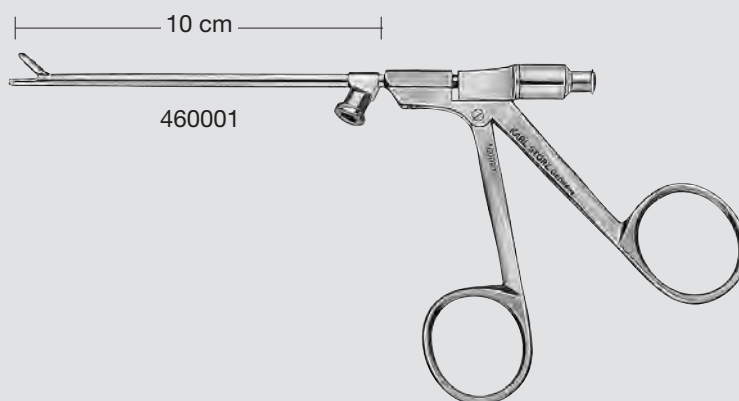
653010

HEUWIESER Antrum Grasping Forceps,
double action jaws adjustable to retrograde
position, working length 10 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Suction Punches, with central suction channel



460001

STAMMBERGER Suction Punch, for biopsy and grasping, straight, with central suction channel, with Cleaning Stylet 460001 E, size 1, with cleaning connector, working length 10 cm



460501

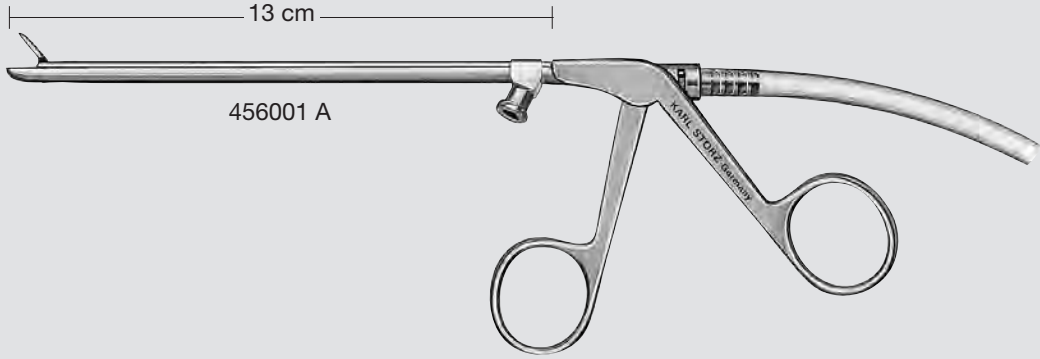
STAMMBERGER Suction Punch, for biopsy and grasping, curved upwards, with central suction channel, with Cleaning Stylet 460001 E, size 1, with cleaning connector, working length 10 cm



FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KENNEDY-BLAKESLEY/LUSK RHINOFORCE® II Suction Punches and Biopsy and Grasping Forceps, with lateral suction channel



456001 A

KENNEDY-BLAKESLEY RHINOFORCE® II Suction Punch, for biopsy and grasping, straight, with suction channel, size 1, with cleaning connector, working length 13 cm



456002 A

Same, size 2



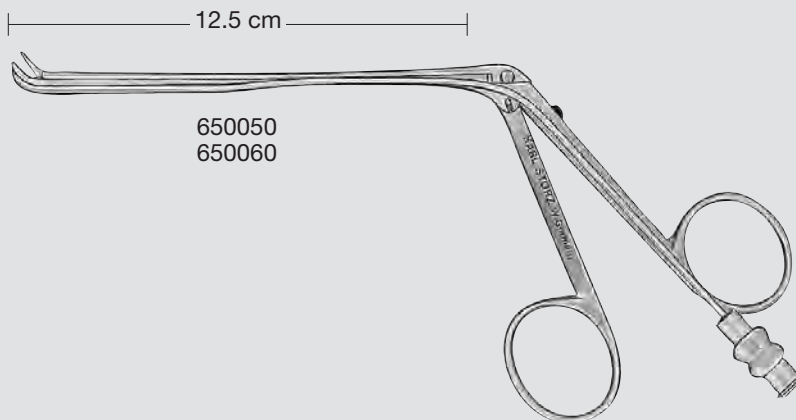
456501 A

KENNEDY-BLAKESLEY RHINOFORCE® II Biopsy and Grasping Forceps, 45° upturned, with suction channel, size 1, with cleaning connector, working length 12.5 cm



456502 A

Same, size 2



650050

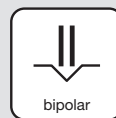
KENNEDY-LUSK Biopsy and Grasping Forceps, straight, for children, with suction channel, working length 12.5 cm



650060

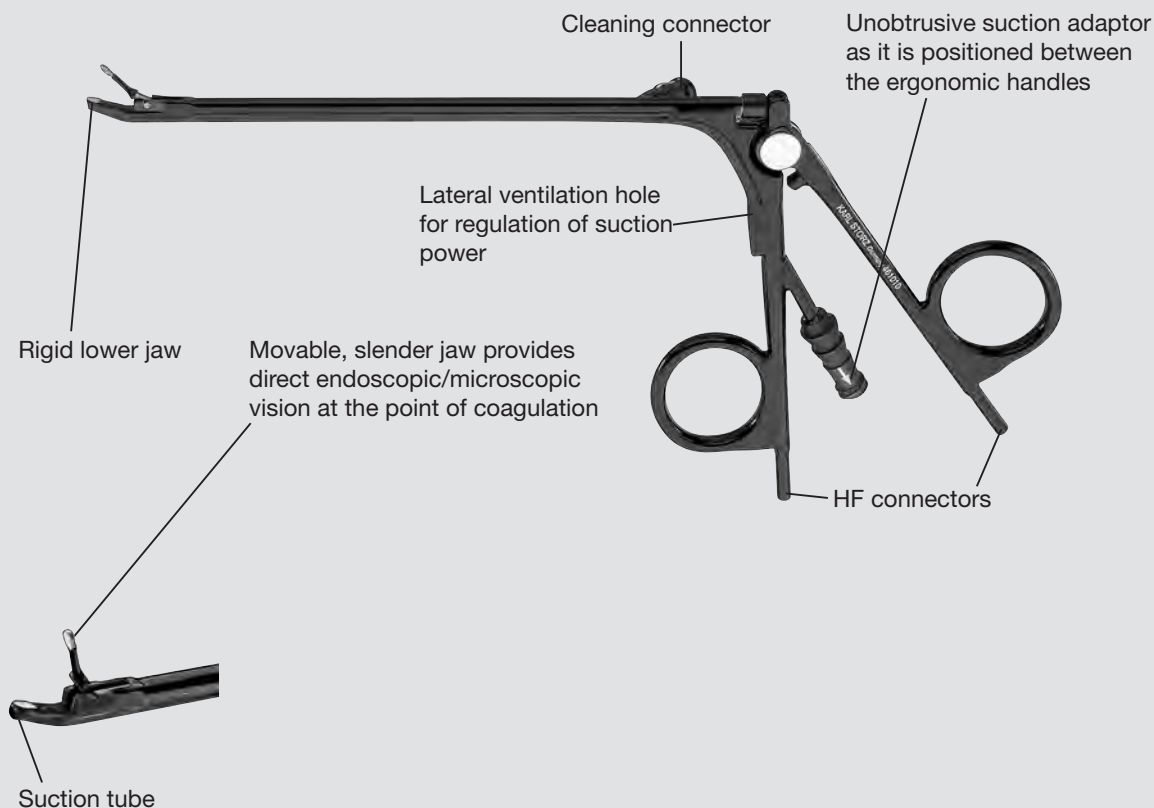
Same, 45° upturned

STAMMBERGER Bipolar Suction Forceps



Special Features:

- Design similar to standard paranasal grasping forceps
- Integrated suction channel
- Suction power regulation
- Bipolar coagulation
- Insulated except for small coagulation area on the instrument tip
- Single action jaws
- Distance between cautery poles may be varied, enabling punctual and extensive coagulation
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation
- Two instrument heads: angled 15° and 45° to the instrument sheath
- Slim design enables good availability of previously hard to reach regions for cauterization



STAMMBERGER Bipolar Suction Forceps

Indications/Applications:

- Arterial bleeding (ethmoidal, sphenopalatine and maxillary arteries, turbinate and septum vessels)
- Skull base surgery
- Oozing hemorrhage from the mucosa edges
- Vascular processes, i.e. nasopharyngeal fibroma
- Epistaxis
- Secondary hemorrhage, i.e. from adenotomes in the nasopharynx
- Edema prevention, shrinkage of mucosa (for example, posterior end of the turbinate)
- Turbinate cauterization



461010



461010

STAMMBERGER **Bipolar Suction Forceps**, 15° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



461015



461015

STAMMBERGER **Bipolar Suction Forceps**, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

Bipolar High Frequency Cords see pages 426-428

TAKE-APART® Bipolar Forceps ^{NEW}

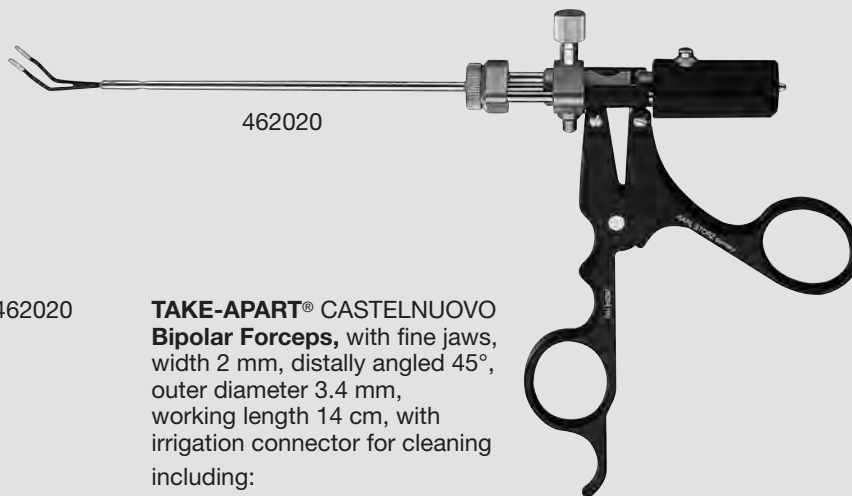
For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV



462020

TAKE-APART® CASTELNUOVO Bipolar Forceps, with fine jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**



462023

TAKE-APART® Bipolar Forceps, with fine, short jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**



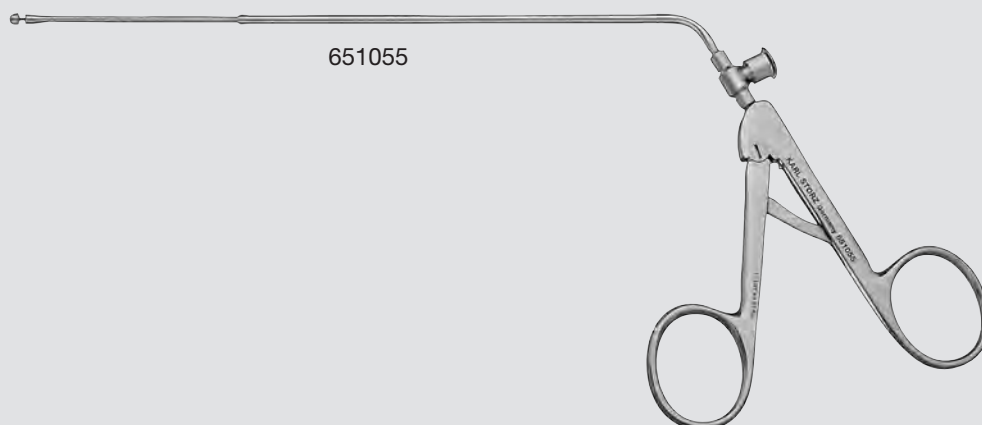
FESS Instruments





for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Circular Cutting Punches, with cleaning connector

Special Features:

- For enlarging openings in the sphenoid frontal wall
- Circular cutting punch mechanism allows cutting in a full circle of 360° without rotating the instrument as required with a conventional punch forceps
- No interference with other instruments simultaneously used in the nose (e. g. endoscope, suction tube)
- Available in 2 sizes: diameter 3.5 and 4.5 mm, punch head 4-fold LASER-welded
- With cleaning connector
- Multipurpose use:
 - In addition to abrading procedures applied to the sphenoid frontal wall, bony ethmoid septa, pieces of nasal concha and other thin bony bridges can also be cut away
 - Suitable for treatment of choanal atresia



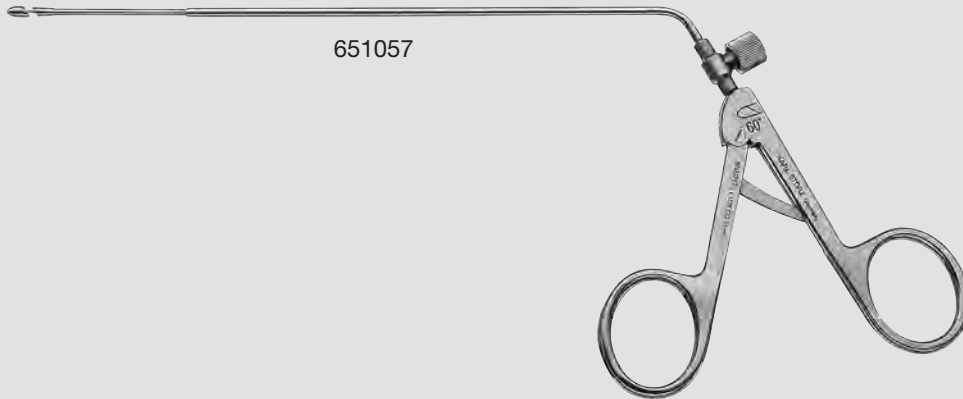
| | | |
|---|--------|--|
|  | 651055 | STAMMBERGER Punch , circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, with cleaning connector, working length 18 cm |
|  | 651050 | Same , diameter 4.5 mm |
|  | 651060 | STAMMBERGER Punch , circular cutting, 65° upturned, for frontal sinus recess, diameter 3.5 mm, with cleaning connector, working length 17 cm |
|  | 651065 | Same , diameter 4.5 mm |

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Punches

Egg-shaped tip, for opening the ethmoid cells and the sphenoid sinus



651057

STAMMBERGER **Punch**, egg-shaped tip, circular cut, 60° cutting direction from distal above to proximal below, tip diameter 3.5 mm, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, working length 18 cm



651058

Same, 120° cutting direction from distal below to proximal above



651052

STAMMBERGER **Punch**, egg-shaped tip, circular cut, 60° cutting direction from distal above to proximal below, tip diameter 4.5 mm, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, working length 18 cm



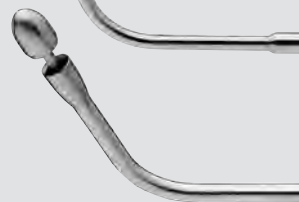
651053

Same, 120° cutting direction from distal below to proximal above



651061

STAMMBERGER **Punch**, egg-shaped tip, circular cut, 90° cutting direction, tip diameter 3.5 mm, sheath 65° upturned, for frontal sinus recess, with cleaning connector, working length 17 cm



651066

Same, tip diameter 4.5 mm

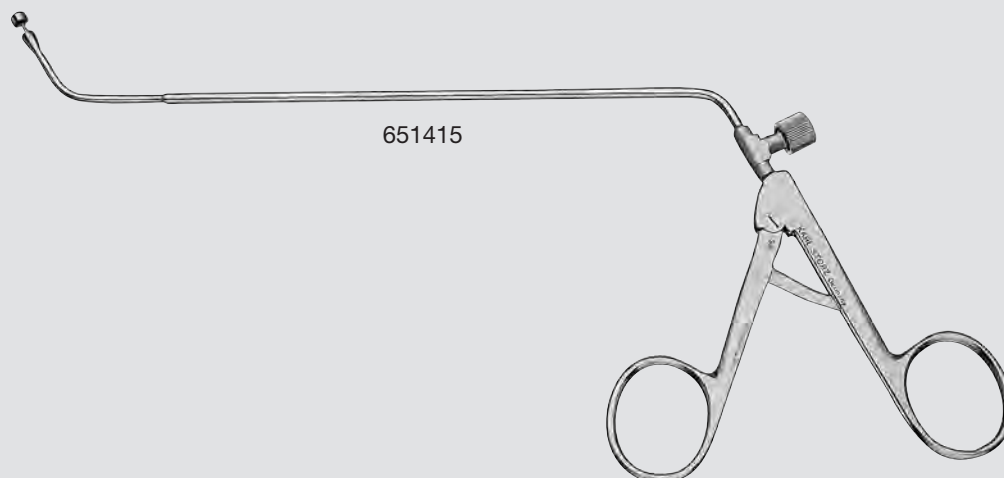
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KAMEL Antrum Punches

Special Features:

- Middle meatal antrostomy punch
- Short tip, 30° and 45° upturned
- Punch head diameter 4.5 mm
- Circular cutting
- Working length 13 cm
- With cleaning connector



651410

KAMEL **Punch**, 30° upturned, punch head diameter 4.5 mm, circular cutting, with cleaning connector, working length 13 cm



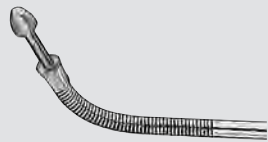
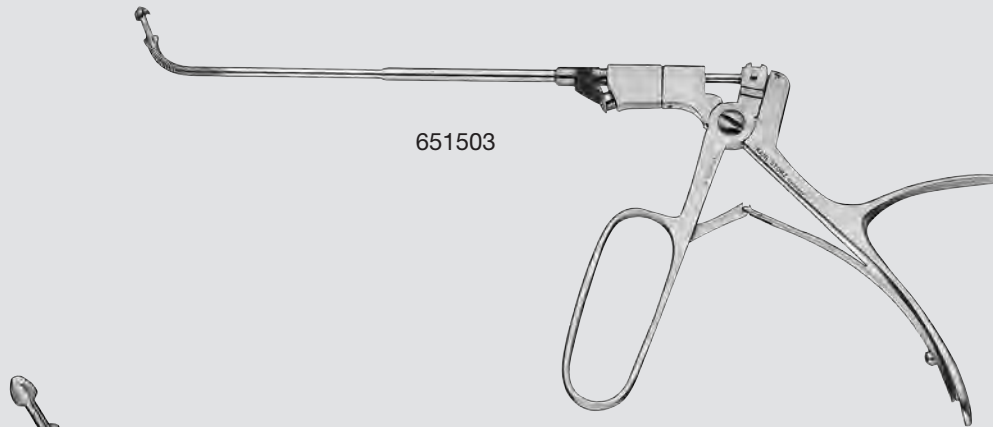
651415

Same, 45° upturned

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

HOSEMANN Frontal Sinus/Recess Punches and Sphenoid Punch, with central irrigation channel



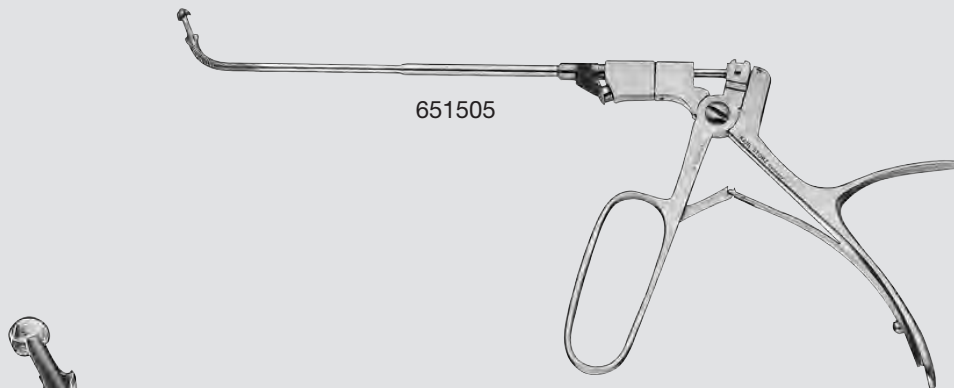
651503

HOSEMANN Frontal Sinus/Recess Punch, 70° upturned, slender model, punch head diameter 3.5 mm, not through-cutting, upper part of punch fixed, lower part of punch movable, sheath diameter 2.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm



651504

HOSEMANN Sphenoid Punch, straight, slender model, punch head diameter 3.5 mm, not through-cutting, front part of punch fixed, rear part of punch movable, sheath diameter 2.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm



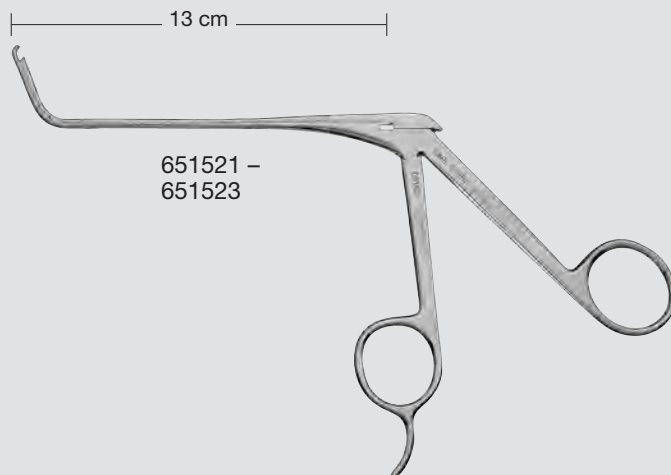
651505

HOSEMANN Frontal Sinus/Recess Punch, 70° upturned, robust model, punch head diameter 5.5 mm, not through-cutting, upper part of punch fixed, lower part of punch movable, sheath diameter 3.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

Frontal Sinus Punch with link chain sheath, backward cutting



651521 -
651523



651521

Frontal Sinus Punch, with link chain sheath 70° upturned, backward cutting, to reduce the spina nasalis superior, small, jaws 2.5 x 2 mm, working length 13 cm



651522

Same, medium (standard size), jaws 3.5 x 3 mm



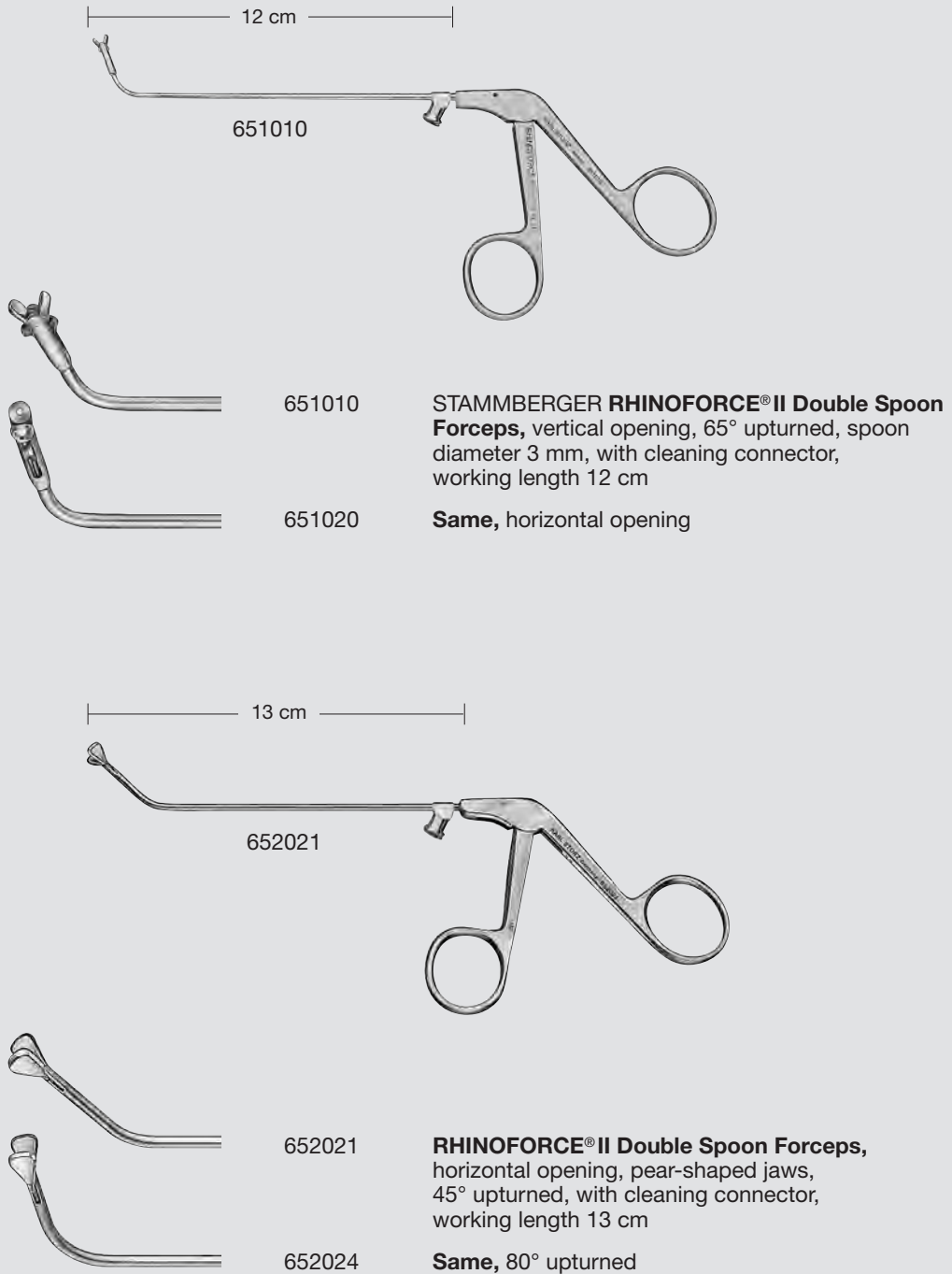
651523

Same, large, jaws 5.5 x 5 mm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

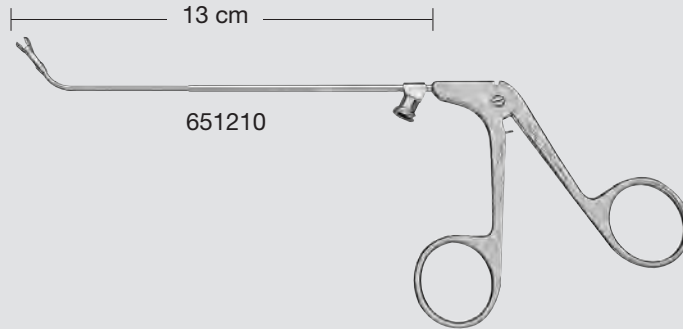
STAMMBERGER RHINOFORCE® II Double Spoon Forceps, round and pear-shaped



FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KUHN-BOLGER Double Spoon Giraffe Forceps, cupped jaws, not through-cutting



651210

KUHN-BOLGER **Double Spoon Giraffe Forceps**,
55° upturned, vertical opening, spoon diameter 3 mm,
with cleaning connector, working length 13 cm



651220

Same, horizontal opening



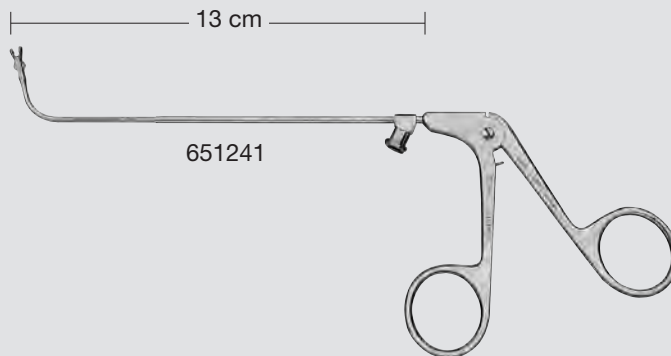
651211

KUHN-BOLGER **Double Spoon Giraffe Forceps**,
55° upturned, vertical opening, spoon diameter 2 mm,
with cleaning connector, working length 13 cm



651221

Same, horizontal opening



651231

KUHN-BOLGER **Double Spoon Giraffe Forceps**,
90° upturned, horizontal opening, spoon diameter 2 mm,
with cleaning connector, working length 13 cm



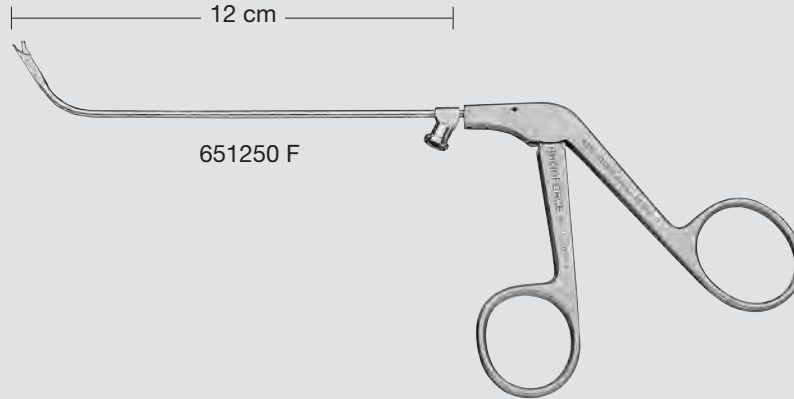
651241

Same, vertical opening

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KUHN RHINOFORCE® II Frontal Sinus Forceps, flat jaws, through-cutting, straight tip



651250 F

KUHN RHINOFORCE® II Frontal Sinus Forceps, through-cutting, with extra fine flat jaws, sheath 60° upturned, width of cut 1.5 mm, backward opening, with cleaning connector, working length 12 cm



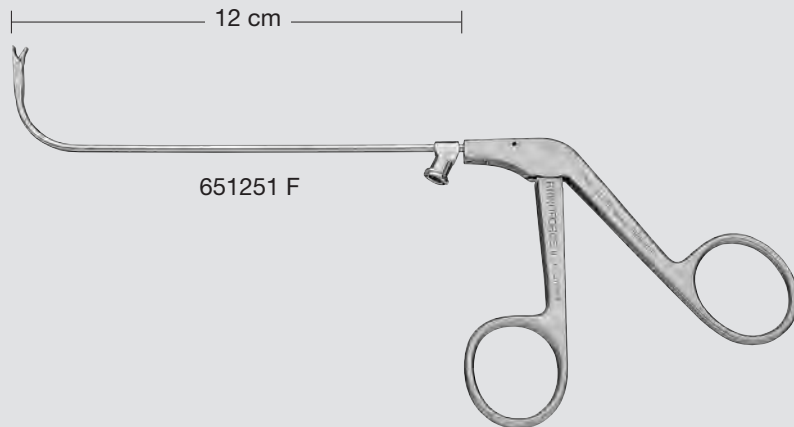
651250 FL

Same, left side opening



651250 FR

Same, right side opening



651251 F

KUHN RHINOFORCE® II Frontal Sinus Forceps, through-cutting, with extra fine flat jaws, sheath 90° upturned, width of cut 1.5 mm, backward opening, with cleaning connector, working length 12 cm



651251 FL

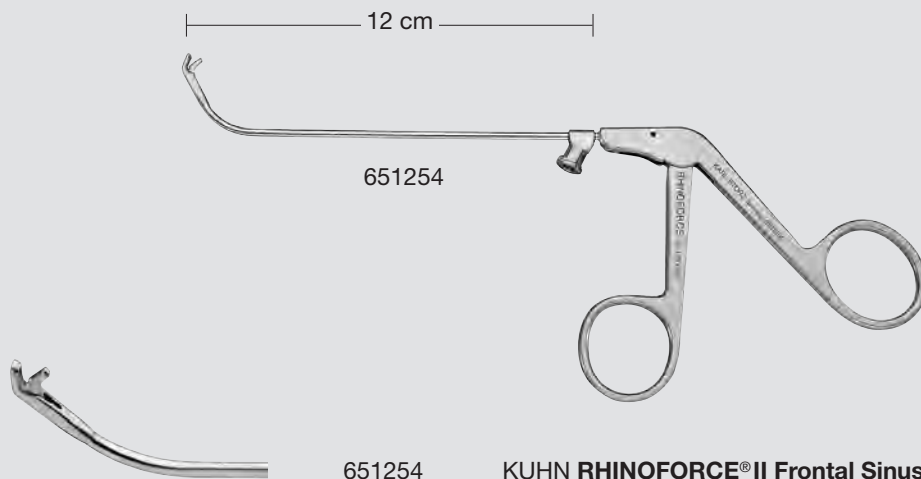
Same, left side opening



651251 FR

Same, right side opening

RHINOFORCE® II KUHN Frontal Sinus Forceps, flat jaws, through-cutting



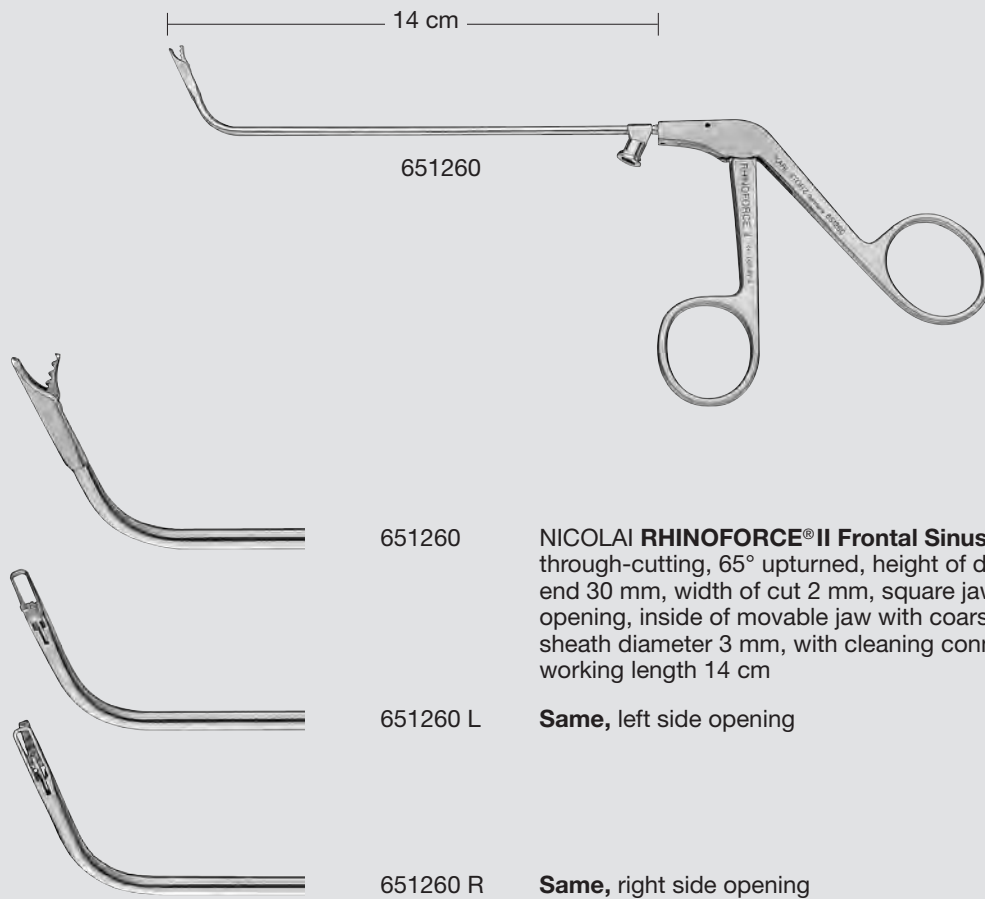
651254

KUHN RHINOFORCE® II Frontal Sinus Forceps,
through-cutting, jaws angled 45°, extra fine flat
jaws, sheath 60° upturned, width of cut 1.5 mm,
backward opening, with cleaning connector,
working length 12 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

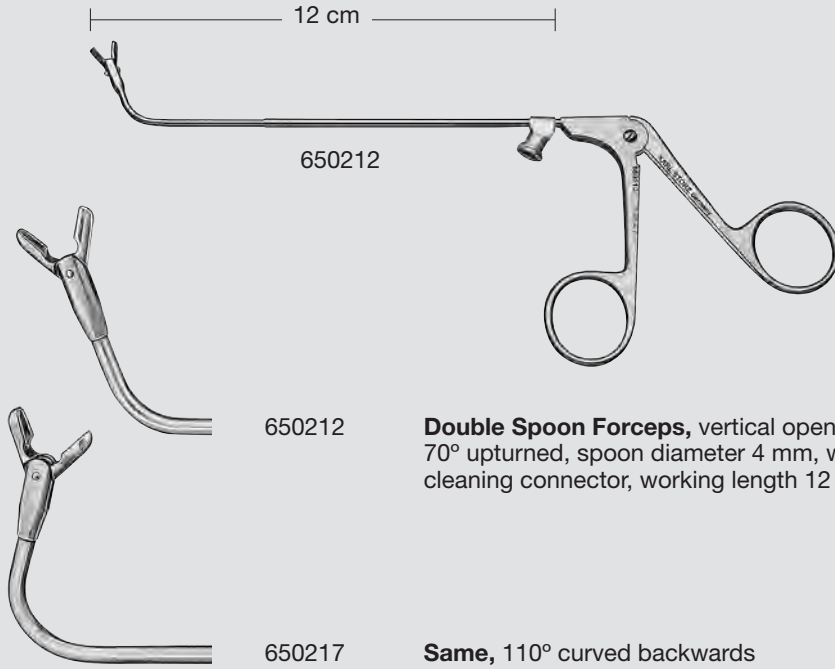
NICOLAI RHINOFORCE® II Frontal Sinus Forceps, through-cutting



FESS Instruments

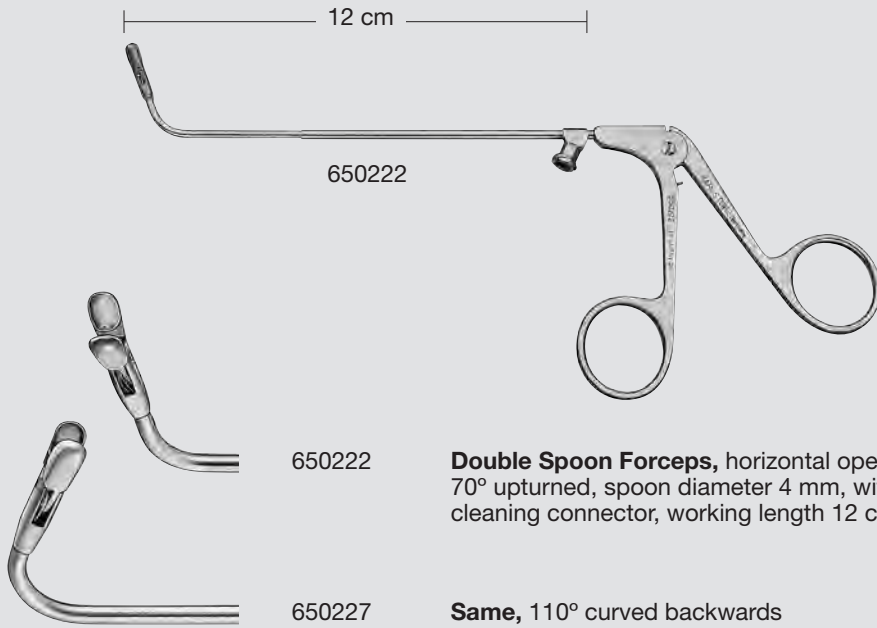
for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

Double Spoon Forceps, cupped jaws



Double Spoon Forceps, vertical opening, 70° upturned, spoon diameter 4 mm, with cleaning connector, working length 12 cm

Same, 110° curved backwards



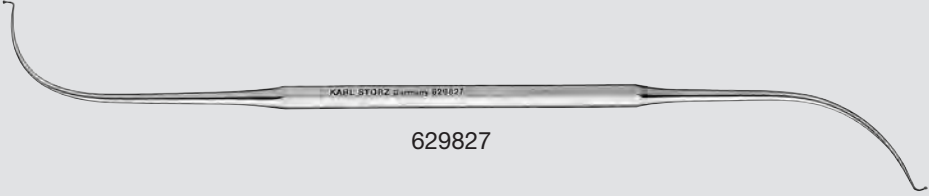

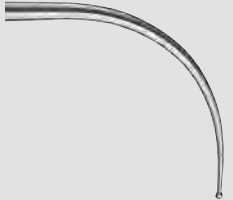
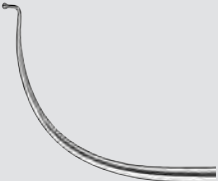
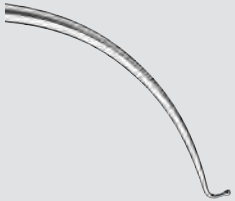








Double Spoon Forceps, horizontal opening, 70° upturned, spoon diameter 4 mm, with cleaning connector, working length 12 cm

Same, 110° curved backwards

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KUHN Frontal Sinus Seeker

| | | | |
|---|--------|---|---|
|  | 629827 | | |
|  | 629826 | KUHN Frontal Sinus Seeker , double-ended, No. 2, both sides curved 90°, one tip straight, one tip reverse angle, length 22 cm |  |
|  | 629827 | KUHN Frontal Sinus Seeker , double-ended, No. 3, one side curved 77°, other side curved 90°, both tips forward angle, length 22 cm |  |
|  | 629828 | KUHN Frontal Sinus Seeker , double-ended, No. 4, both sides curved 90°, tips angled right and left, length 22 cm |  |
|  | 629829 | KUHN Frontal Sinus Seeker , double-ended, No. 5, both sides curved 77°, tips angled right and left, length 22 cm |  |
|  | 629830 | KUHN Frontal Sinus Seeker , double-ended, No. 6, both sides curved 77°, one tip straight, other tip reverse angle, length 22 cm |  |
|  | 629835 | Seeker , double-ended, straight, malleable, one tip with ball end, other tip without ball end and blunt, length 24 cm |  |

4-031

FESS Instruments

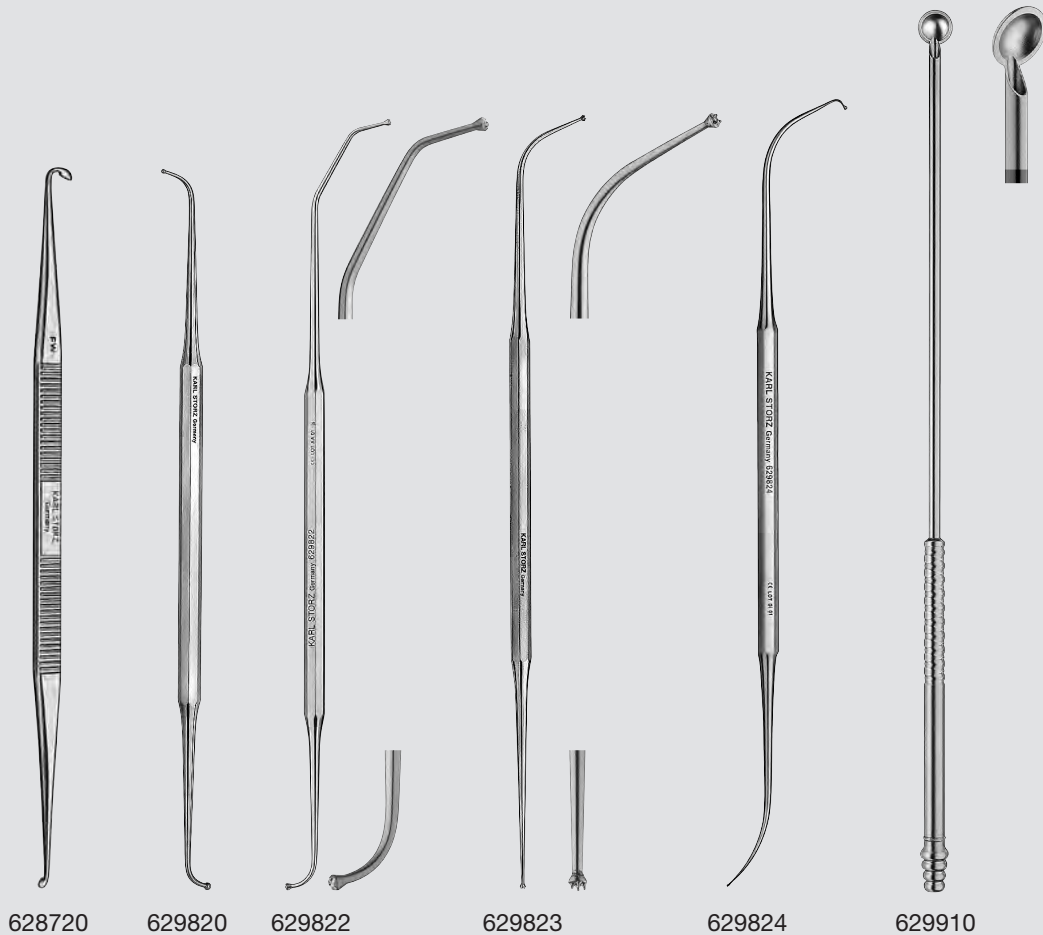
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



- 223300 **PLESTER Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- 474001 **FREER Suction Elevator**, with stylet, length 19 cm
- 474005 **FREER-JACOBS Elevator**, double-ended, semisharp, one side slightly curved FREER elevator, width 5 mm, other side JACOBS elevator, angled 45°, width 2.5 mm, length 20 cm, for infundibulotomy
- 479100 **COTTLE Elevator**, double-ended, semisharp and blunt, graduated, length 20 cm
- 628001 **Sickle Knife**, pointed, length 19 cm
- 628002 **Sickle Knife**, round, double-cutting, length 19 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



- 628720 **Curette**, double-ended, oval, one side short curved 45°, semisharp, diameter 2.2 mm, other side long curved 90°, sharp, diameter 2.7 mm, length 19 cm
- 629820 **Probe**, double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
- 629822 **CASTELNUOVO Positioning Instrument**, double-ended, curved 80°/double curved, with 4 spikes, length 22 cm
- 629823 **CASTELNUOVO Positioning Instrument**, double-ended, straight/curved 60°, with 4 spikes, length 22 cm
- 629824 **CASTELNUOVO Frontal Sinus Probe**, double-ended, curved, length 22 cm
- 629910 **STAMMBERGER Plate Elevator**, closed blade diameter 10 mm, tip angled 30°, with suction channel, LUER, with round handle, length 25 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



- | | |
|--------|---|
| 628601 | Antrum Curette , oval, size 1, length 19 cm |
| 628602 | Same , size 2 |
| 628603 | Same , size 3 |
| 628701 | Antrum Curette , round, length 19 cm |
| 628702 | Same , oblong, small |
| 628703 | Same , oblong, large |
| 628712 | KUHN-BOLGER Frontal Sinus Curette , 55° curved, oval, forward cutting, length 19 cm |
| 628714 | Same , 90° curved |
| 628715 | KUHN-BOLGER Frontal Sinus Curette , elongated 90° curve, oblong, small, length 19 cm |
| 629703 | Antrum Curette , forward cutting, small, length 19 cm |
| 629704 | Same , backward cutting |

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



223530 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm

223535 **Same**, slightly curved spatula, straight, size 3 mm

223540 **Same**, round spatula, tip angled 45°, size 3 mm

223532 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, curved, sharp, flat long spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm

223537 **Same**, slightly curved spatula, size 3 mm

223542 **Same**, round spatula, tip angled 45°, size 3 mm

223533 BEHRBOHM **Snake Dissector**, long curved, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 18 cm

223538 **Same**, slightly curved spatula, size 3 mm

223543 **Same**, round spatula, tip angled 45°, size 3 mm

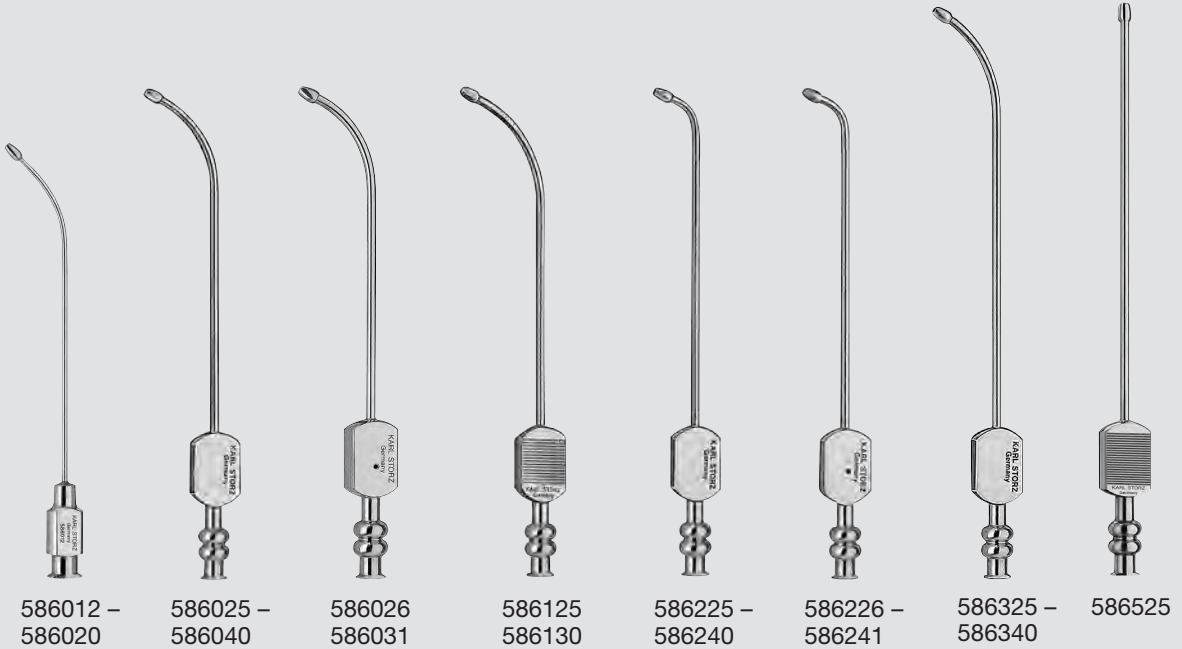
529505 BEHRBOHM **Bullotome**, suction tube with conical tip, sharp, with cut-off hole and mandrel, angular, outer diameter 5 Fr., working length 10 cm, total length 17.5 cm

529507 **Same**, outer diameter 7 Fr.

529509 **Same**, outer diameter 9 Fr.

FESS Instruments

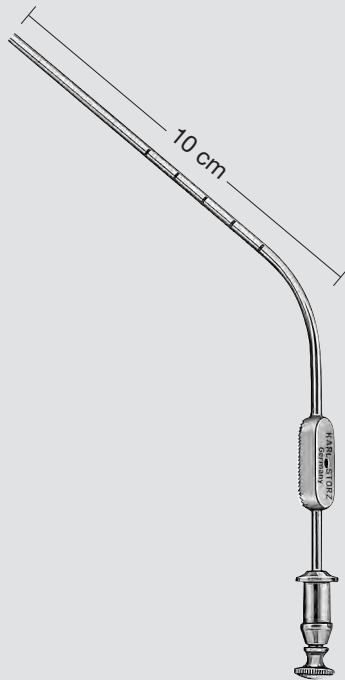
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



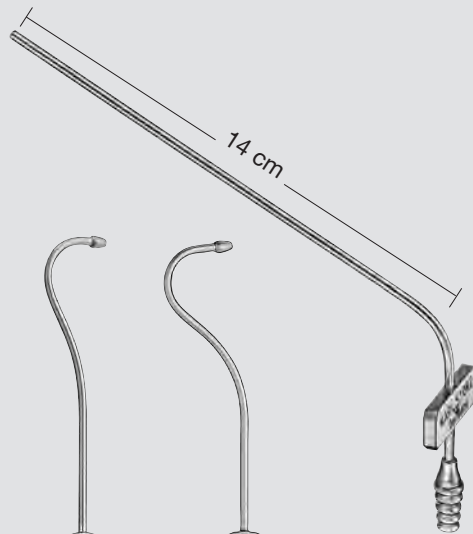
| | | | |
|--------|---|--------|---|
| 586012 | Antrum Cannula , LUER-Lock, long curved, with olive, without grip plate, outer diameter 1.2 mm, length 9 cm | 586225 | v. EICKEN Antrum Cannula , LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm |
| 586015 | Same , with olive diameter 2.7 mm, outer diameter 1.5 mm | 586230 | Same , outer diameter 3 mm |
| 586020 | Same , outer diameter 2 mm | 586240 | Same , outer diameter 4 mm |
| 586025 | v. EICKEN Antrum Cannula , LUER-Lock, long curved, outer diameter 2.5 mm, length 12.5 cm | 586226 | v. EICKEN Antrum Cannula , LUER-Lock, with cut-off hole, short curved, outer diameter 2.5 mm, length 12.5 cm |
| 586030 | Same , outer diameter 3 mm | 586231 | Same , outer diameter 3 mm |
| 586040 | Same , outer diameter 4 mm | 586241 | Same , outer diameter 4 mm |
| 586026 | v. EICKEN Antrum Cannula , LUER-Lock, with cut-off hole, long curved, outer diameter 2.5 mm, length 12.5 cm | 586325 | v. EICKEN Antrum Cannula , LUER-Lock, long curved, outer diameter 2.5 mm, length 15 cm |
| 586031 | Same , outer diameter 3 mm | 586330 | Same , outer diameter 3 mm |
| 586125 | v. EICKEN Antrum Cannula , LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm | 586340 | Same , outer diameter 4 mm |
| 586130 | Same , outer diameter 3 mm | 586525 | Antrum Cannula , LUER-Lock, straight, malleable, with serrated grip plate, outer diameter 2.5 mm, working length 15 cm |

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



529305 –
529309



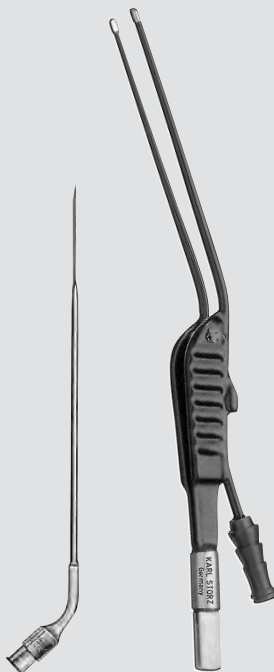
586145

586146

722830



722925



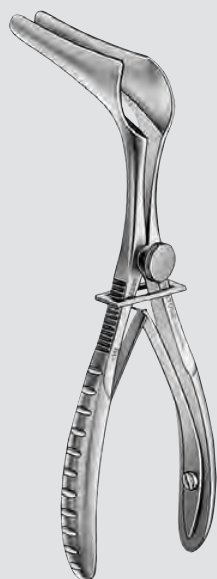
810506

843219

- 529305 **FRAZIER Suction Tube**, with mandrel and cut-off hole, with distance marking at 5 – 9 cm, 5 Fr., working length 10 cm
- 529307 **Same**, 7 Fr.
- 529309 **Same**, 9 Fr.
- 586145 v. **EICKEN-CASTELNUOVO Antrum Cannula**, LUER-Lock, S-shaped slightly curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
- 586146 **Same**, strongly curved
- 722830 **Suction Tube**, angular, with grip plate and cut-off hole, LUER, outer diameter 3 mm, working length 14 cm
- 722925 **Suction Tube**, conical, malleable, with finger grip plate, LUER-Lock, outer diameter 2.5 mm, working length 13 cm
- 810506 **Septum Needle**, angular, LUER-Lock
- 843219 **Bipolar Coagulation Forceps**, insulated, angular, blunt, with integrated suction channel for epistaxis, with cut-off hole, length 19 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



403240 –
403290



404455 –
404490

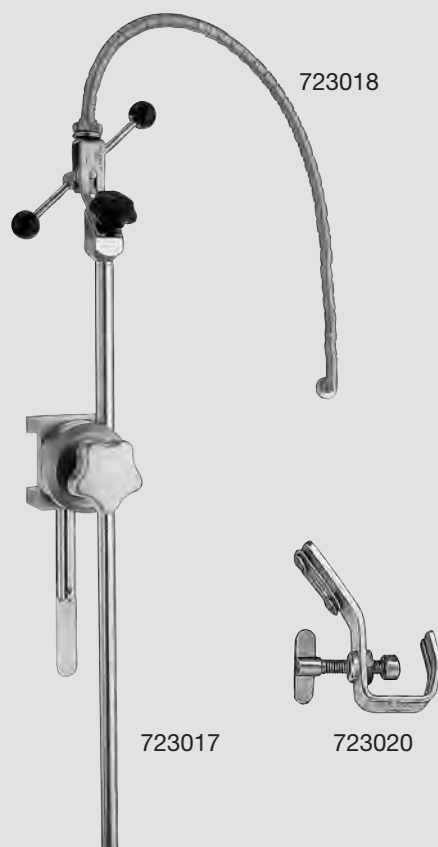


404555 –
404590

- 403240 **KILLIAN-STRUYCKEN Nasal Speculum**, with set rack, blade length 40 mm, length 15 cm
- 403255 **Same**, blade length 55 mm
- 403265 **Same**, blade length 65 mm
- 403275 **Same**, blade length 75 mm
- 403290 **Same**, blade length 90 mm

- 404455 **RUDERT Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, left blade length 55 mm, right blade shortened with 3 mandrels, length 15 cm
- 404465 **Same**, left blade length 65 mm
- 404475 **Same**, left blade length 75 mm
- 404490 **Same**, left blade length 90 mm

- 404555 **RUDERT Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, right blade length 55 mm, left blade shortened with 3 mandrels, length 15 cm
- 404565 **Same**, right blade length 65 mm
- 404575 **Same**, right blade length 75 mm
- 404590 **Same**, right blade length 90 mm

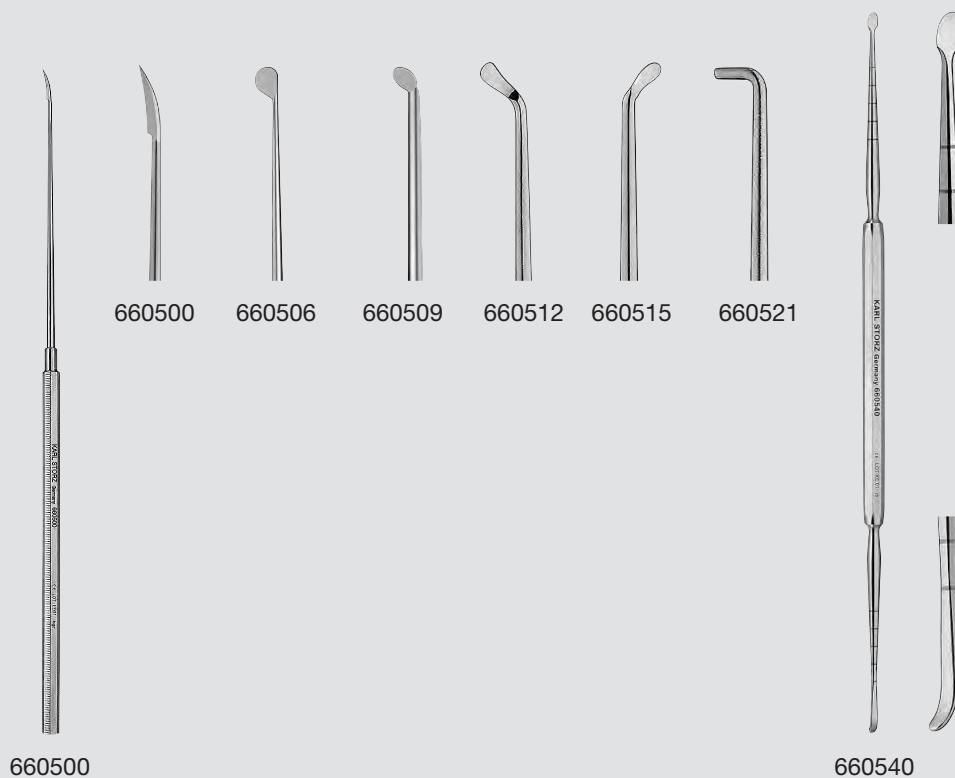


For use with Nasal Specula 404455 – 404475, 404555 – 405575

- 723017 **Rotating Clamp**, with holding rod for Flexible Tension Arms 723018 and 28162 FB, attachable to the operating table's sliding rail
- 723018 **Flexible Tension Arm**, length 50 cm
- 723020 **Connector**, for Flexible Tension Arm 723018, attachable to rods up to diameter 16 mm

The tension arm can also be attached to an anesthesia frame using the connector in place of the holding rod.

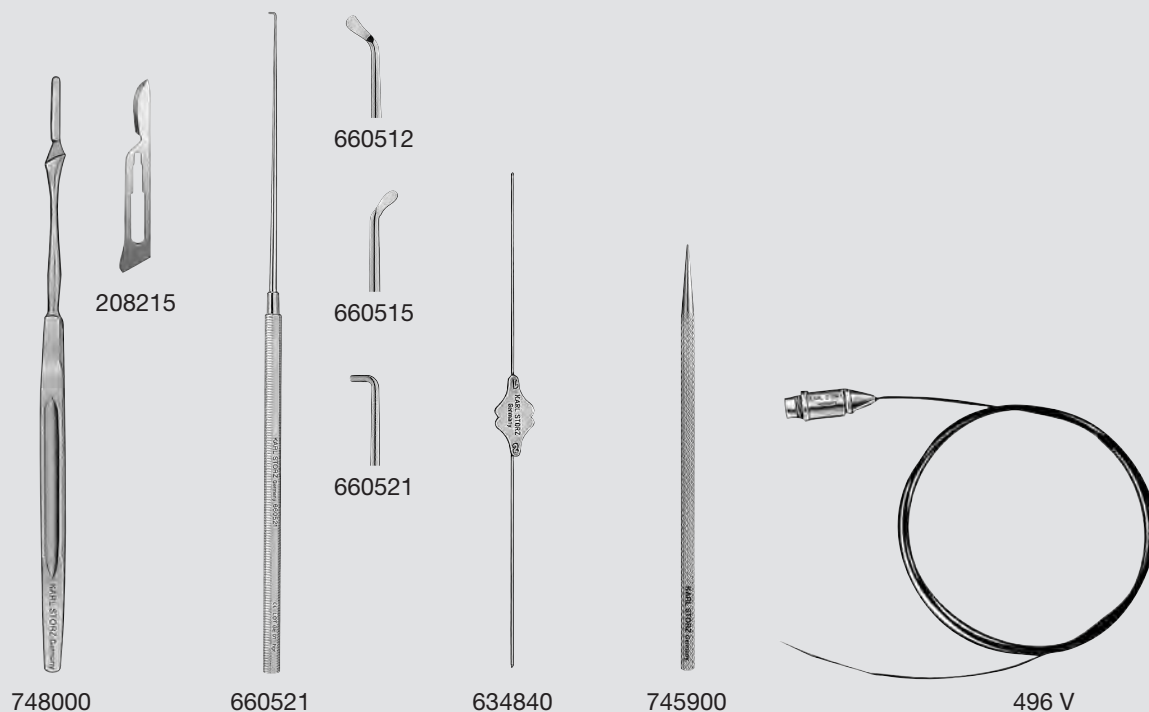
Set recommended by Prof. MESSERKLINGER and Prof. STAMMBERGER



- 660500 **Sickle Knife**, slightly curved, pointed, length 18 cm
- 660506 **Round Knife**, vertical cutting, 3.5 x 2.5 mm, length 18 cm
- 660509 **Round Knife**, angled 45°, diameter 2 mm, length 18 cm
- 660512 **Elevator**, sharp, curved to right, length 18 cm
- 660515 **Elevator**, sharp, curved to left, length 18 cm
- 660521 **Hook**, 90°, blunt, length 18 cm
- 660540 **Elevator**, double-ended, blunt, graduated, length 20 cm

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Prof. CASTELNUOVO



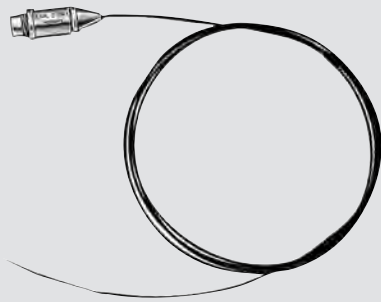
- 748000 **Surgical Handle**, Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
- 208215 **Blade**, Fig. 15, sterile, package of 100
- 660521 **Hook**, 90°, blunt, length 18 cm
- 660512 **Elevator**, sharp, curved to right, length 18 cm
- 660515 **Elevator**, sharp, curved to left, length 18 cm
- 634840 **BOWMAN Lachrymal Probe**, length 13 cm including:
 - Probe**, size 0000 – 000
 - Probe**, size 00 – 0
 - Probe**, size 1 – 2
- 745900 **WILDER Dilator**, for salivary duct, length 11 cm
- 496 V **Lachrymal Probe**, for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

Probe for Diaphanoscopic Localization of the Nasolacrimal Ducts

Dacryocystorhinostomy acc. to SIEGERT/WEERDA

The obstructed nasolacrimal ducts have to be represented intraoperatively for dacryocystorhinostomy. However, intraoperative endonasal localization of the pathologically changed ducts may prove difficult, due to the considerable anatomical variations from one patient to the next. The instruments for representation of the nasolacrimal duct comprise a light source, a light guide and a special optical probe with a distal diameter of 0.5 mm.

For endonasal dacryocystorhinostomy, the sterile distal end of the optical probe is introduced into the lacrimal sac, or up to the point of the blockage, through the upper or lower lacrimal point. The spot of light visible at the end of the light guide “marks” the nasal end of the clear lacrimal duct. It is advisable to briefly turn down the external lights in the operating room at first in order to locate the nasolacrimal duct while the lacrimal sac is still covered by considerable tissue.

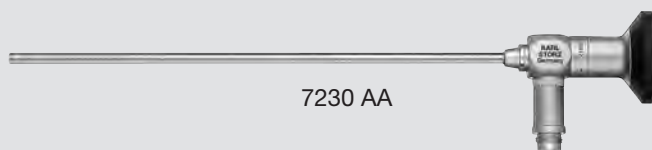


496 V

Lachrymal Probe, for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG



7230 AA



7230 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7230 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



479100

COTTLE Elevator, double-ended, semisharp and blunt, graduated, length 20 cm

628001

Sickle Knife, pointed, length 19 cm

628702

Antrum Curette, oblong, small, length 19 cm

660506

Round Knife, vertical cutting, 3.5 x 2.5 mm, length 18 cm

660509

Round Knife, angled 45°, diameter 2 mm, length 18 cm

479100

628001

628702

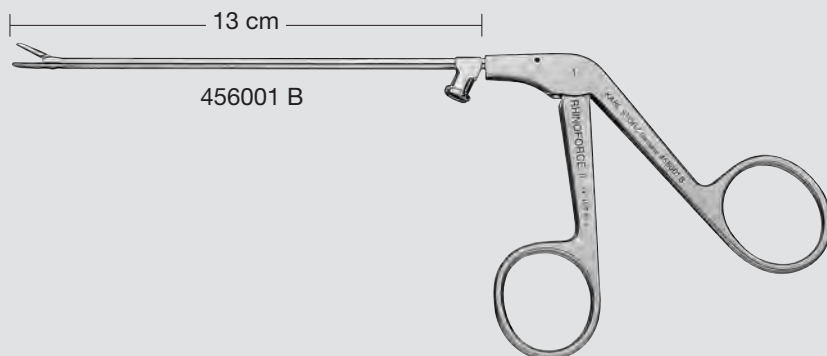
660506

660509

7-01

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG



456001 B

BLAKESLEY RHINOFORCE® II Nasal Forceps, straight, size 1, with cleaning connector, working length 13 cm



456501 B

BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps, 45° upturned, size 1, with cleaning connector, working length 13 cm



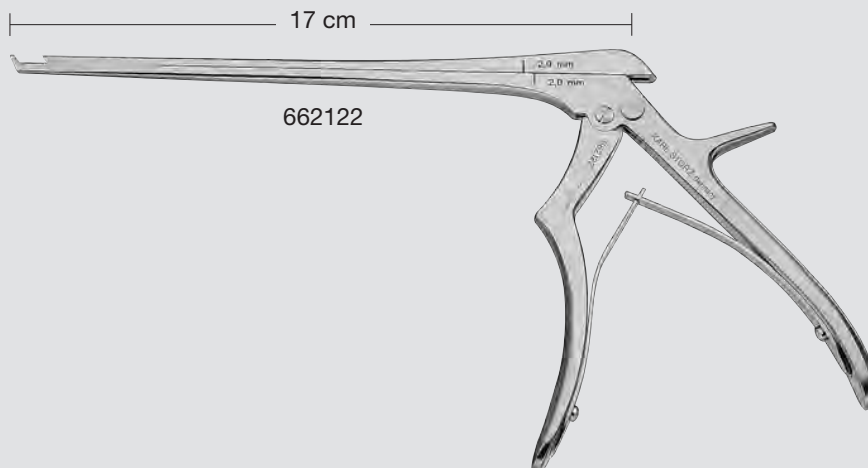
452002 B

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Cutting Forceps, straight, through-cutting, extra delicate, for a smooth cut, 11.5 x 3.5 mm, size 2, with cleaning connector, working length 13 cm



451500 B

GRÜNWALD-HENKE RHINOFORCE® II Nasal Cutting Forceps, 45° upturned, through-cutting, for a smooth cut, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



662122

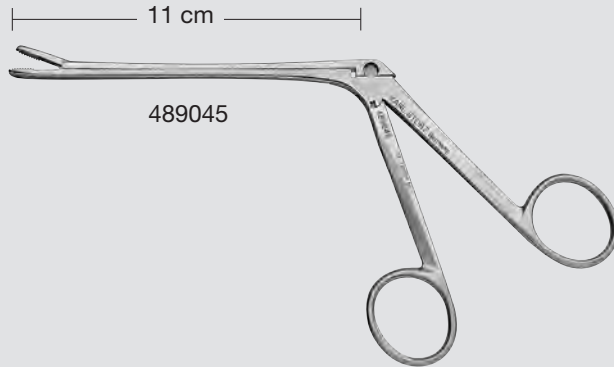


NEW 662122

KERRISON Bone Punch, detachable, rigid, upbiting 40° forward, size 2 mm, working length 17 cm

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG

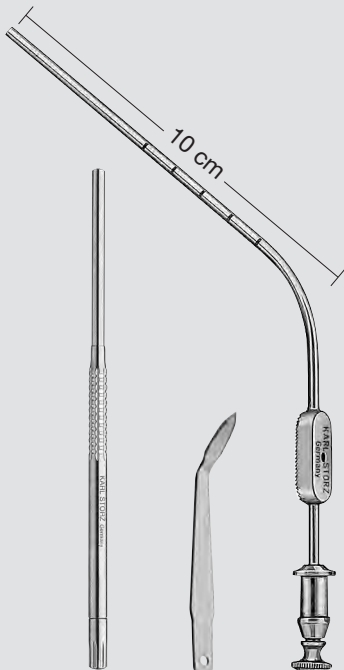


489045

FERRIS-SMITH Nasal Forceps, serrated, working length 11 cm



489045



496550

496770

529307

634840

745900

NEW

496550

Surgical Handle, for miniature blades, round, length 16.5 cm, for Blades 496764 – 65

496770

Miniature Blade, angled 45°, pointed, sterile, width 3 mm, package of 3

529307

FRAZIER Suction Tube, with mandrel and cut-off hole, with distance marking at 5 – 9 cm, 7 Fr., working length 10 cm

634840

BOWMAN Lacrimal Probe, length 13 cm

including:

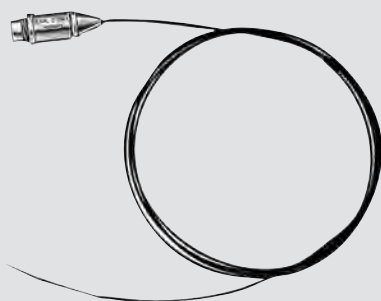
Probe, size 0000 – 000

Probe, size 00 – 0

Probe, size 1 – 2

745900

WILDER Dilator, for salivary duct, length 11 cm

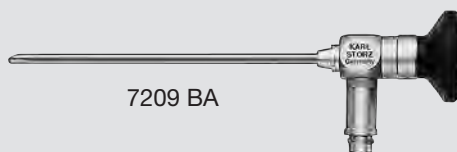


496 V

Lacrimal Probe, for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

Components/Spare Parts see chapter 16

Additional instruments and units



7209 BA



7209 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 3 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



404040
404055



430300

404040 **Nasal Speculum**, with fiber optic light carrier, blade length 40 mm, length 13.5 cm

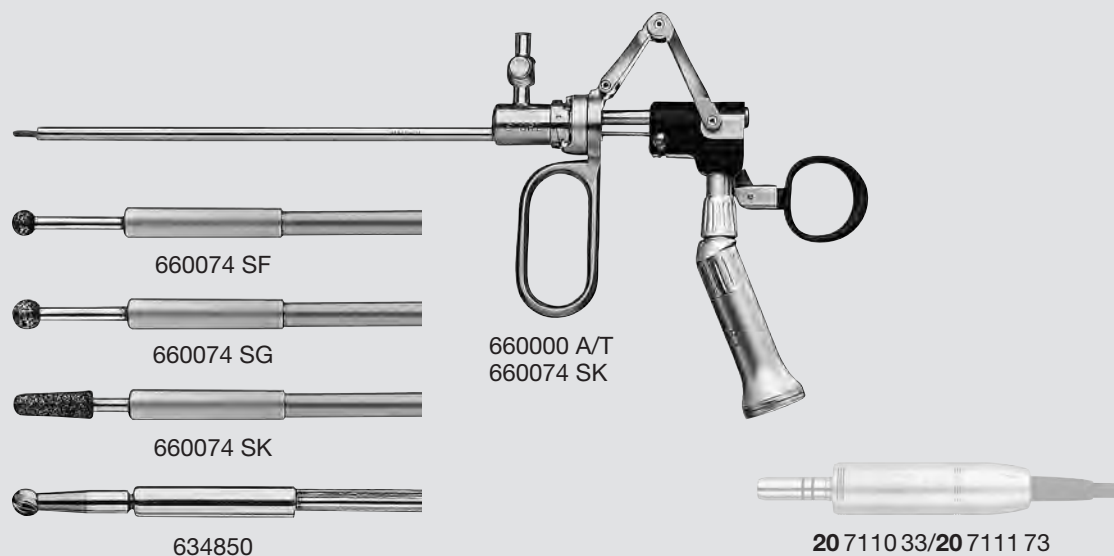
404055 **Nasal Speculum**, with fiber optic light carrier, blade length 55 mm, length 13.5 cm

430300 **LUBET-BARBON Nasal Dressing Forceps**, serrated, working length 10.5 cm

Components/Spare Parts see chapter 16

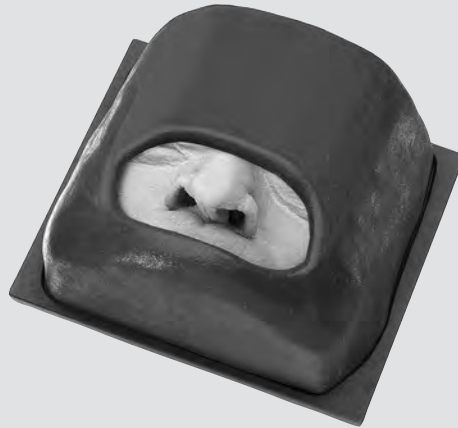
Instruments for Endonasal Dacryocystorhinostomy

Additional instruments and units



- 660000 STAMMBERGER-SACHSE **Intranasal Drill**, for use with EC micro motor including:
Double Ring Sliding Handle, for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece
Guide Sheath, outer diameter 5 mm, with irrigation stopcock
Diamond Abrador, delicate, spherical, diameter 2.5 mm
Diamond Abrador, delicate, spherical, diameter 3 mm
Diamond Abrador, delicate, conical, from diameter 2.5 mm to diameter 3 mm
- 634850 JONES **DCR Cutting Burr**, for endonasal dacryocystorhinostomy, tungsten carbide, diameter 2.7 mm, length 22 cm, for use with Intranasal Drill 660000

For use with Motor Systems see pages 205-212
High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7110 73 see page 209
Components/Spare Parts see chapter 16



- 723128 **Training Model**, for endoscopy of the nose and paranasal sinuses
including:
Section Plane 1: Front Plate
Section Plane 2: Turbinate/Septum
Section Plane 3: Maxillary Sinus
Section Plane 4: Ethmoidal Cells
Section Plane 5: Sphenoidal Sinus
Base Plate
Mask
Case
Documentation Atlas

Components/Spare Parts see chapter 16

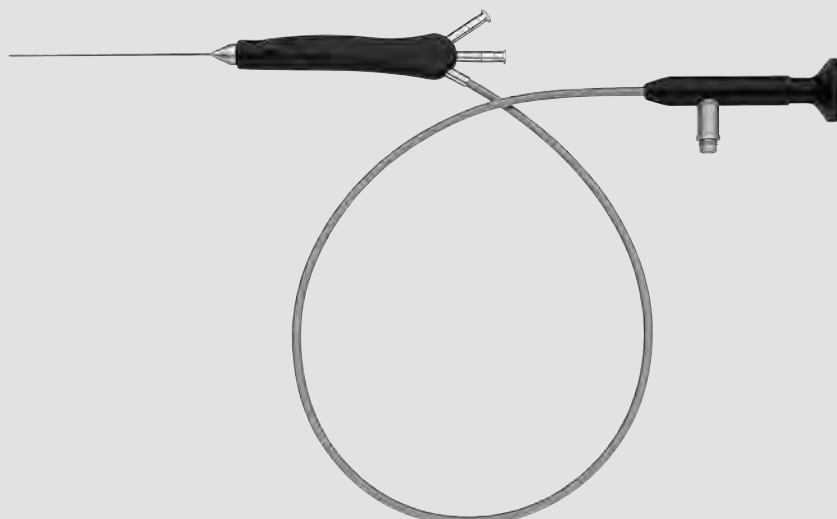


**TELESCOPES AND INSTRUMENTS
FOR SIALENDOSCOPY**

ERLANGEN Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

ALL-IN-ONE Miniature Endoscopes, ERLANGEN model



11573 A

11572 A **Miniature Straight Forward Telescope 0°**, diameter 0.8 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated

11573 A **Miniature Straight Forward Telescope 0°**, diameter 1.1 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, working channel diameter 0.45 mm, irrigation channel diameter 0.25 mm, length 140 cm, remote eyepiece, fiber optic light transmission incorporated

for use with:

- Stone Extractor 11582 M/11573 NP
- Micro Burr 11573 MB
- Guide Wire 745725
- Laser Probe

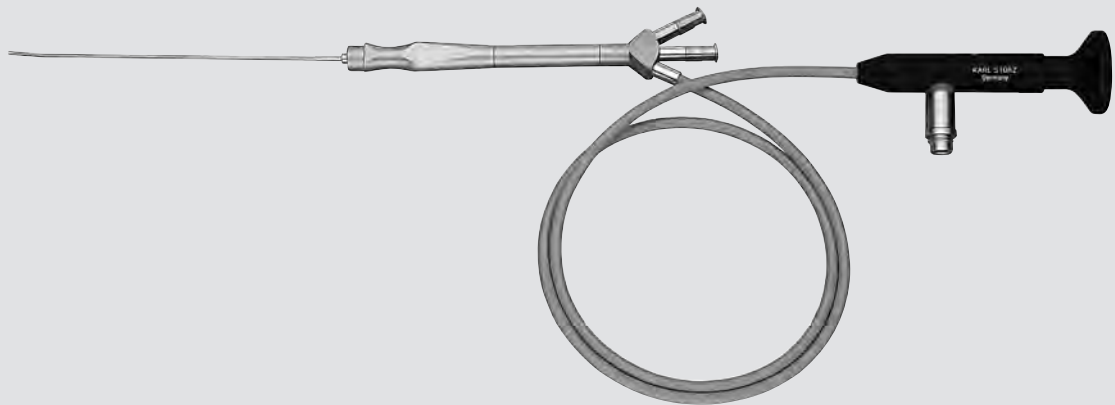
11574 A **Miniature Straight Forward Telescope 0°**, diameter 1.6 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, working channel diameter 0.85 mm, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated

for use with:

- Stone Extractor 11582 M/11573 NP
- Micro Burr 11574 MB
- Foreign Body Forceps 11574 TJ
- Biopsy Forceps 11574 ZJ
- Guide Wire 745720
- Laser Probe
- Balloon Catheter 11583 BP

Instruments, Sterilization and Storage Trays see pages 326-332

ALL-IN-ONE Miniature Endoscopes



11575 A

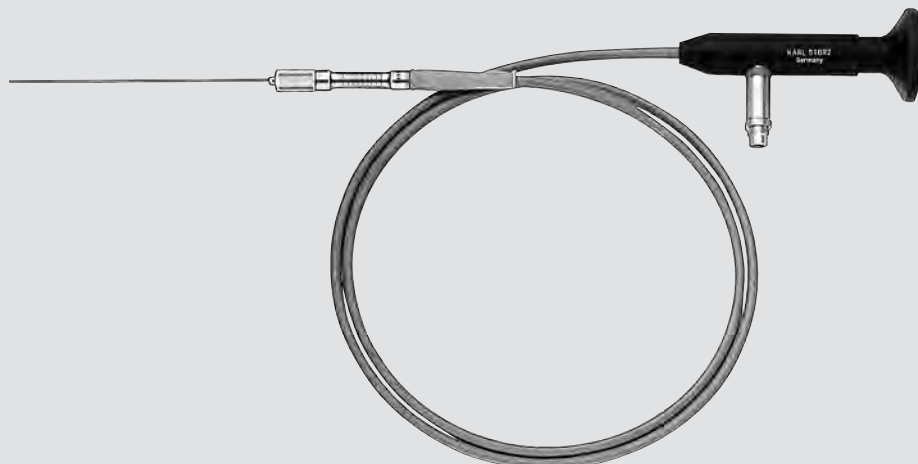
- 11575 A **Miniature Straight Forward Telescope 0°**, diameter 1.3 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, working channel diameter 0.65 mm, irrigation channel diameter 0.25 mm, length 100 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P
for use with:
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Laser Probe
- 11581 A **Miniature Straight Forward Telescope 0°**, diameter 0.89 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P
- 11582 A **Miniature Straight Forward Telescope 0°**, diameter 1.1 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, working channel 0.45 mm, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated
for use with:
– Stone Extractor 11582 M/11573 NP
– Guide Wire 745725
– Laser Probe
- 11583 A **Miniature Straight Forward Telescope 0°**, diameter 1.6 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, working channel 0.8 mm, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P
for use with:
– Stone Extractor 11575 K/L
– Guide Wire 745720
– Grasping Forceps 11583 TJ
– Biopsy Forceps 11583 ZJ
– Laser Probe
– Balloon Catheter 11583 BP

Instruments, Sterilization and Storage Trays see pages 326-332

Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

Miniature Endoscopes for Children and Adolescents Modular System

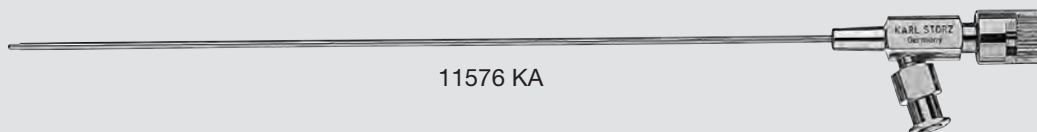


11576 A

11576 A

Miniature Straight Forward Telescope 0°, diameter 0.75 mm, working length 16 cm, semirigid, **autoclavable**, length 145 cm, with remote eyepiece and light connection, LUER-Lock adaptor, fiber optic light transmission incorporated, including Protective Tube 11576 P

Examination Sheath



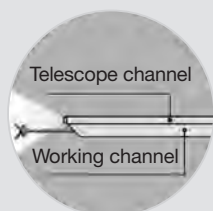
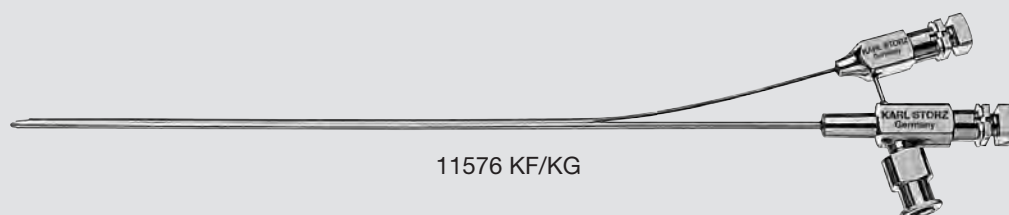
11576 KA

11576 KA

Examination Sheath, diameter 1.1 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11576 A

Miniature Endoscopes for Children and Adolescents Modular System

Operating Sheath

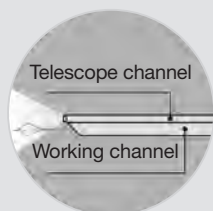


11576 KF

Operating Sheath, oval, diameter 1.1 and 1.3 mm, working length 16 cm, telescope channel diameter 0.9 mm, working channel diameter 1.15 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

- Miniature Straight Forward Telescope 11576 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Balloon Catheter 11577 BP
- Grasping Forceps 11576 TJ
- Biopsy Forceps 11576 ZJ
- Laser Probe



11576 KG

Operating Sheath, oval, diameter 1.1 and 0.8 mm, working length 16 cm, telescope channel diameter 0.9 mm, working channel diameter 0.65 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

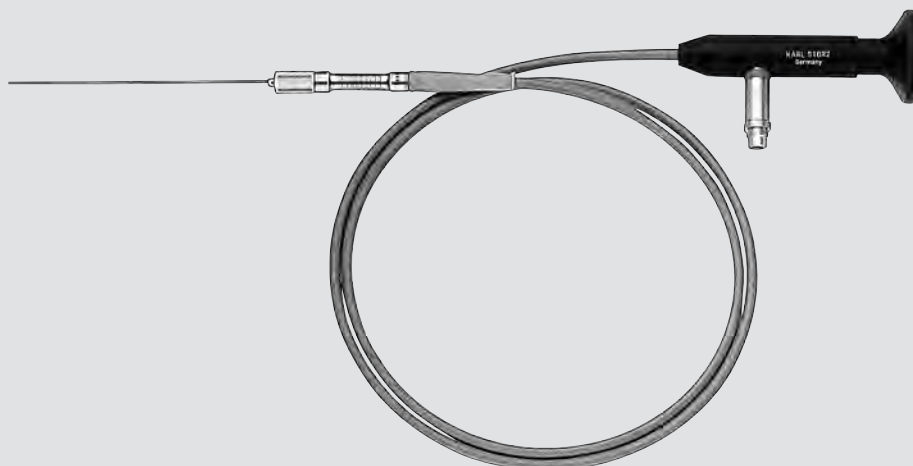
- Miniature Straight Forward Telescope 11576 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Laser Probe

Instruments see pages 326-332

Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

Miniature Endoscopes for Adults Modular System



11577 A

- 11577 A **Miniature Straight Forward Telescope 0°**, diameter 1 mm, working length 16 cm, semirigid, autoclavable, length 145 cm, with remote eyepiece and light connection, LUER-Lock adaptor, fiber optic light transmission incorporated, including Protective Tube 11576 P

Examination Sheath

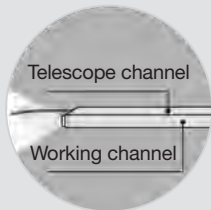
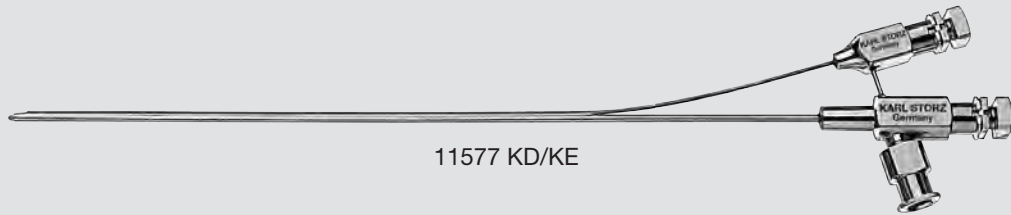


11577 KA

- 11577 KA **Examination Sheath**, diameter 1.3 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11577 A

Miniature Endoscopes for Adults
Modular System

Operating Sheath

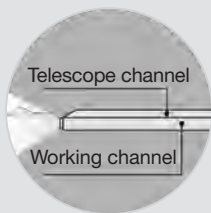


11577 KE

Operating Sheath, oval, diameter 1.3 and 1.3 mm, working length 16 cm, telescope channel diameter 1.15 mm, working channel diameter 1.15 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

- Miniature Straight Forward Telescope 11577 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Balloon Catheter 11577 BP
- Grasping Forceps 11576 TJ
- Biopsy Forceps 11576 ZJ
- Laser Probe



11577 KD

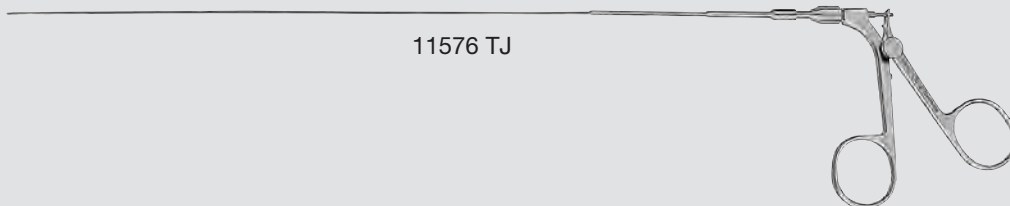
Operating Sheath, oval, diameter 1.3 and 0.8 mm, working length 16 cm, telescope channel diameter 1.15 mm, working channel diameter 0.65 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

- Miniature Straight Forward Telescope 11577 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Laser Probe

Forceps

11576 TJ



11576 TJ

Foreign Body Forceps, flexible, double action jaws, diameter 1 mm, working length 19 cm, for use with Operating Sheaths 11576 KF and 11577 KE



11576 ZJ

Biopsy Forceps, flexible, double action jaws, diameter 1 mm, working length 19 cm, for use with Operating Sheaths 11576 KF and 11577 KE



11583 TJ

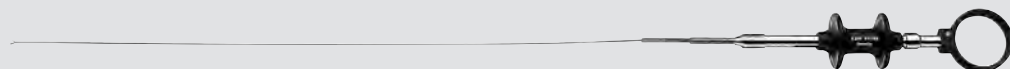
Foreign Body Forceps, flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm, for use with Miniature Straight Forward Telescope 11583 A



11583 ZJ

Biopsy Forceps, flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm, for use with Miniature Straight Forward Telescope 11583 A

11574 TJ



11574 TJ

Foreign Body Forceps, flexible, double action jaws, diameter 0.8 mm, working length 30 cm, for use with Miniature Straight Forward Telescopes 11574 A and 11583 A



11574 ZJ

Biopsy Forceps, flexible, double action jaws, diameter 0.8 mm, working length 30 cm, for use with Miniature Straight Forward Telescopes 11574 A and 11583 A

Instruments

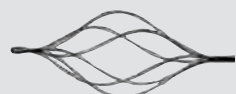
for Sialendoscopy

Stone Extractors, Balloon Catheters, Guide Wires, Burrs



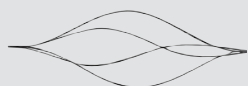
11575 K

Stone Extractor, diameter 0.6 mm, basket with 3 wires, sterile, for single use



11575 L

Stone Extractor, diameter 0.6 mm, basket with 6 wires, sterile, for single use



11582 M

Stone Extractor, diameter 0.4 mm, basket with 4 wires, sterile, for single use



NEW 11573 NP

Front-loading Stone Extractor, without handle, diameter 0.4 mm, length 35 cm, basket with 4 wires, sterile, for single use, package of 10



11577 BP

Balloon Catheter, diameter 0.9 mm, sterile, for single use, package of 10, for use with Operating Sheaths 11576 KF, 11577 B and 11577 KE



NEW 11583 BP

Balloon Catheter, diameter 0.7 mm, sterile, for single use, package of 10, for use with Telescopes 11574 A and 11583 A

745720

Guide Wire, diameter 0.6 mm, sterile, for single use, package of 10, for use with Bougies 745710 – 745713

745725

Guide Wire, diameter 0.4 mm, sterile, for single use, package of 10, for use with Bougies 745808 – 745713



NEW 11573 T

Stone Extractor, diameter 0.6 mm, basket with 4 wires, tipless, handle for fixation to endoscope



NEW 11573 M

Stone Extractor, diameter 0.4 mm, basket with 4 wires, handle for fixation to endoscope



NEW 11573 MB

Micro Burr for Salivary Stones, diameter 0.38 mm, for use with Telescopes 11573 A and 11582 A



NEW 11574 MB

Micro Burr for Salivary Stones, diameter 0.8 mm, for use with Telescopes 11574 A and 11583 A

Forceps and Angled Scissors

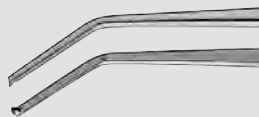


745715



745715

Dressing Forceps, angled,
length 15 cm



745716

Tissue Forceps, angled,
with 1 x 2 teeth, length 15 cm



745717

745717

Angled Scissors for Salivary Gland,
with bulb, length 14 cm

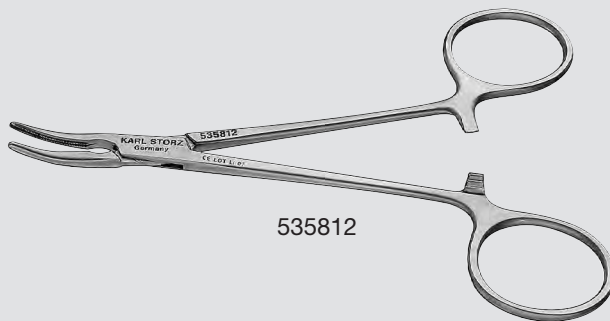
745719

METZENBAUM Scissors, for sialolithotomy,
curved, sharp/sharp, length 18 cm

Instruments

for Sialendoscopy

Artery Forceps



535812

535812

DE BAKEY "Mosquito" Artery Forceps,
atraumatic, curved, length 12 cm

Mouth Gag



58195



58194

MOLT Mouth Gag, large model,
length 14 cm

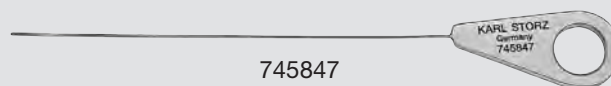


58195

DEHNHARDT Mouth Gag, length 12.5 cm

Dilation Instruments

Salivary Duct Probes



745847

| | | | |
|--------|-----------|--------|--------|
| 745847 | size 0000 | 745853 | size 3 |
| 745848 | size 000 | 745854 | size 4 |
| 745849 | size 00 | 745855 | size 5 |
| 745850 | size 0 | 745856 | size 6 |
| 745851 | size 1 | 745857 | size 7 |
| 745852 | size 2 | 745858 | size 8 |

Bougies



745710

| | |
|--------|--|
| 745708 | Bougie , diameter 1 mm, for use with Guide Wire 745725 |
| 745709 | Same , diameter 1.5 mm |
| 745710 | Bougie , diameter 2 mm, for use with Guide Wire 745720 and 745725 |
| 745711 | Same , diameter 2.5 mm |
| 745712 | Same , diameter 3 mm |
| 745713 | Same , diameter 3.5 mm |

Dilators



745910



745920

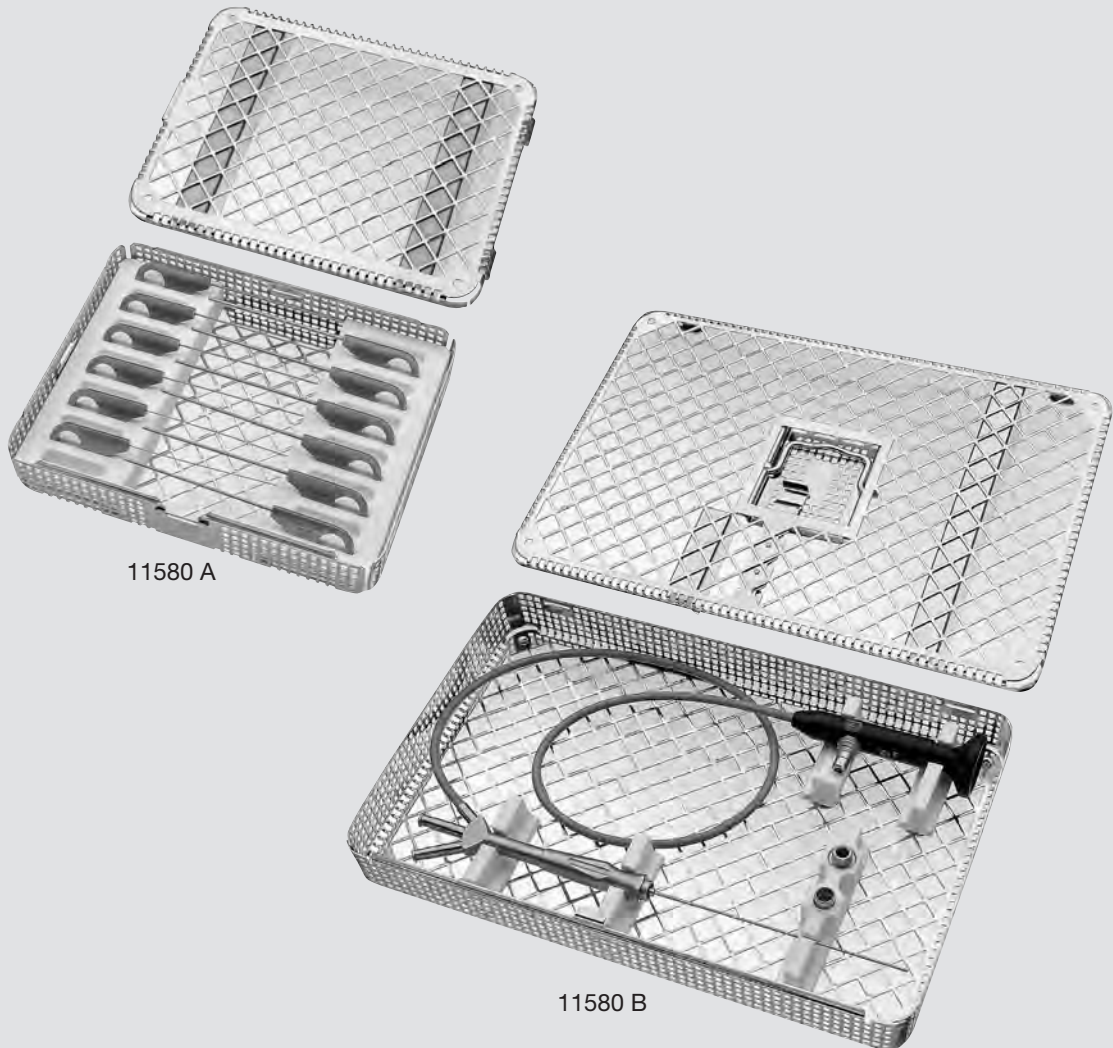


745900

| | |
|--------|---|
| 745905 | Dilator , for salivary duct (Wharton duct), very pointed |
| 745910 | Dilator , for salivary duct, length 14 cm |
| 745920 | Dilator , for salivary duct, size 1, diameter 0.5 – 0.8 mm, length 11.5 cm |
| 745921 | Same , size 2, diameter 0.7 – 1 mm |
| 745922 | Same , size 3, diameter 0.9 – 1.2 mm |
| 745923 | Same , size 4, diameter 1 – 1.6 mm |
| 745924 | Same , size 5, diameter 1.3 – 1.8 mm |
| 745900 | WILDER Dilator , for salivary duct, length 11 cm |

Accessories

Metal Trays



11580 A

11580 B

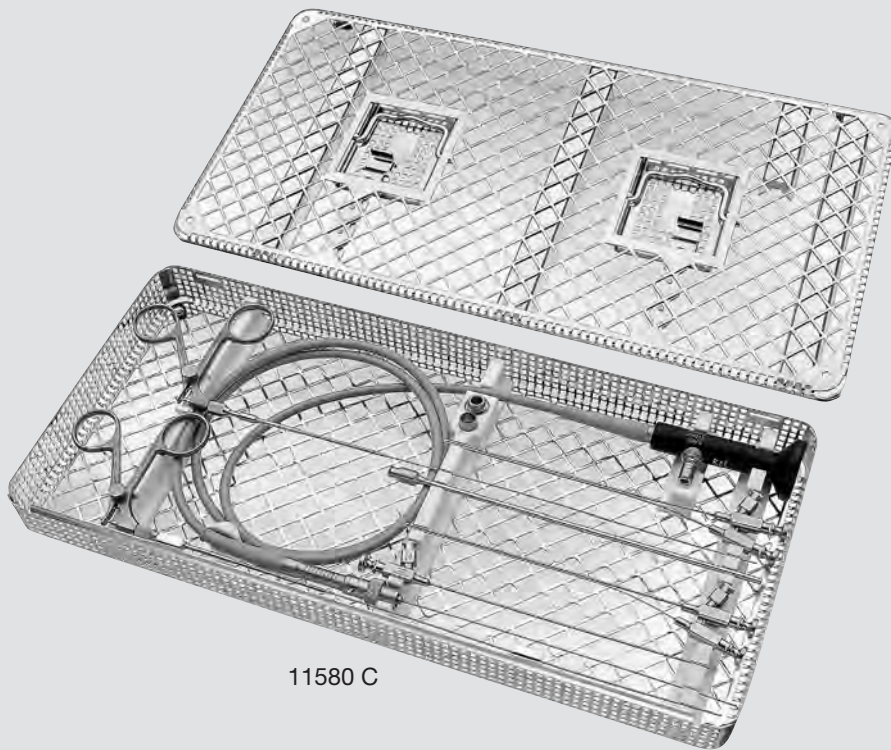
- 11580 A **Metal Tray**, for sterilization and storage of Salivary Duct Probes 745847 – 745858 and Dilator 745910, perforated, lid with silicone bridges, external dimensions (w x d x h): 178 x 135 x 37 mm
- 11580 B **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11575 A, 11581 A, 11582 A, 11583 A, 11578 A or 5800, perforated, lid with silicone bridges, with port for irrigation connector, external dimensions (w x d x h): 275 x 178 x 35 mm

7-071

Please note: The instruments displayed are not included in the metal trays.

Accessories

Metal Trays



11580 C

- 11580 C **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11576 A or 11577 A and two Micro Burrs 11573 MB and 11574 MB, perforated, lid with silicone bridges, external dimensions (w x d x h): 373 x 178 x 35 mm
- 11580 D **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11572 A – 11574 A, perforated, lid with silicone bridges, with port for irrigation adaptor, external dimensions (w x d x h): 275 x 175 x 37 mm
- 11580 J **Metal Tray**, for sterilization and storage of two Foreign Body Forceps 11574 TJ and 11574 ZJ as well as two Burrs 11573 MB and 11574 MB for sialendoscopy, perforated, lid with silicone bridges, external dimensions (w x d x h): 373 x 178 x 35 mm

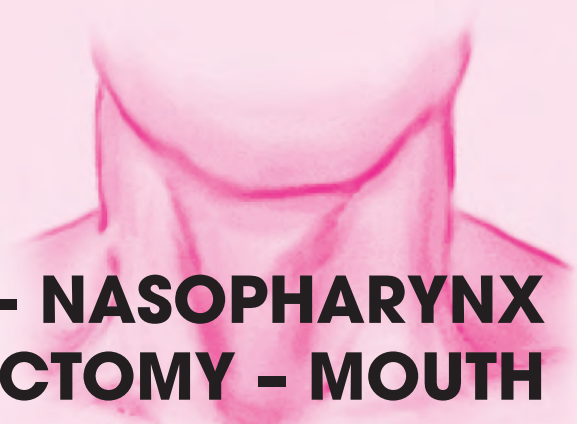
Cleaning

- 27651 K1 **Cleaning Brush**, round, flexible, for working channel diameter 0.4 – 0.6 mm, length 40 cm, for single use, package of 10
- 27651 K2 **Same**, for working channel diameter 0.6 – 0.8 mm
- 27651 K3 **Same**, for working channel diameter 0.8 – 1.4 mm
- 27651 K5 **Same**, for working channel diameter 0.25 – 0.4 mm

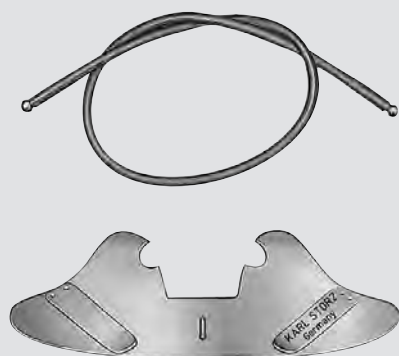
Lithotripsy of Salivary Stones

Extracorporeal shock wave lithotripsy for salivary stones with STORZ MINILITH SL 1
see catalog Oral and Maxillofacial Surgery

Please note: The instruments displayed are not included in the metal trays.



ADENOIDECTOMY - NASOPHARYNX
TONSILLECTOMY - MOUTH
TRACHEOSTOMY - LARYNX



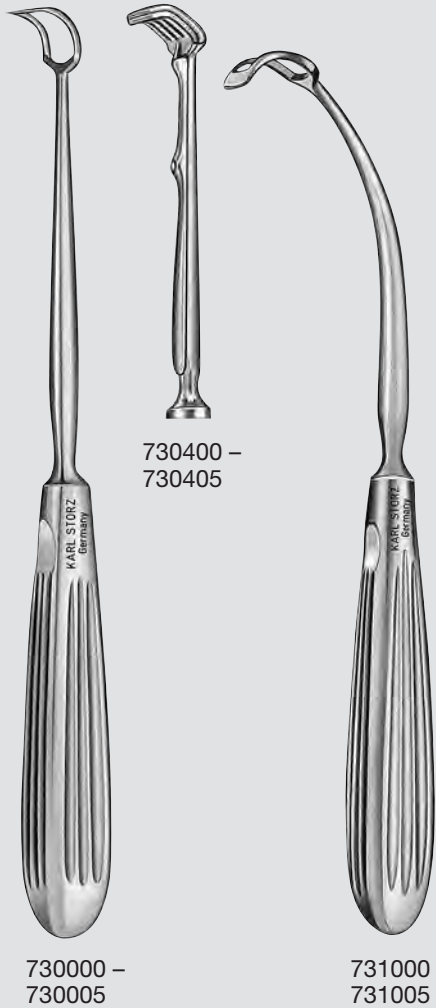
725000



746700

725000 HOPMANN **Uvula Retractor**, length 12.5 cm

746700 NAGER **Pillar Retractor**, length 21 cm



size 0



size 1



size 2



size 3



size 4



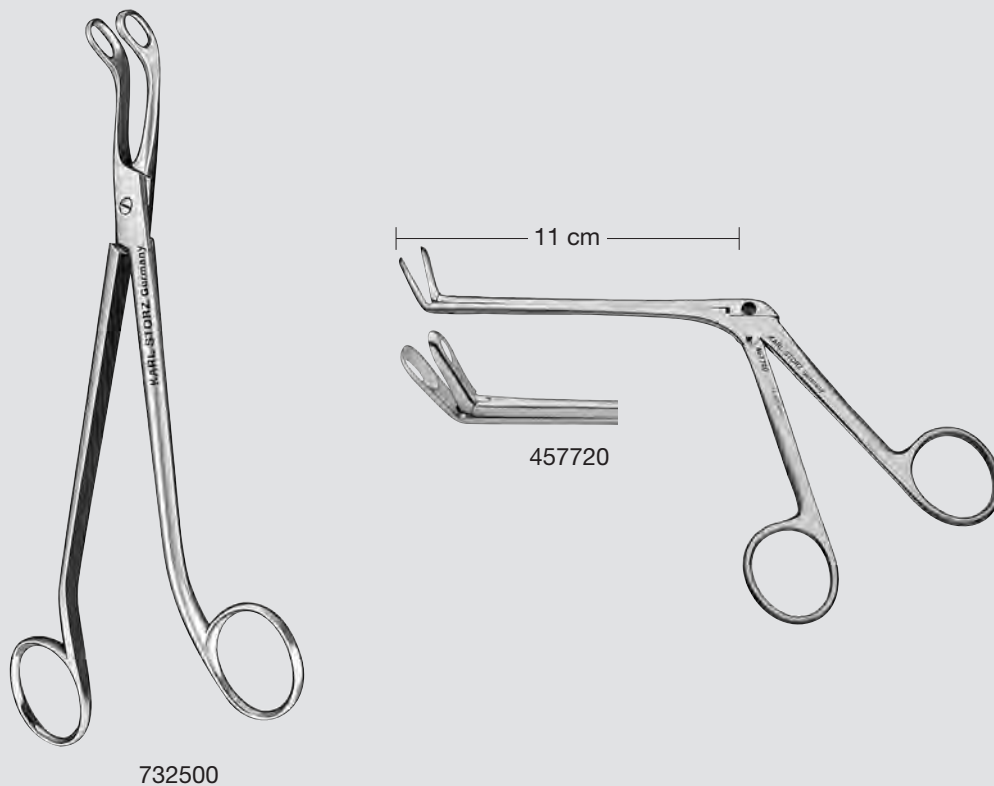
size 5



- 730000 BECKMANN **Adenoid Curette**, straight, size 0, length 22 cm
- 730001 **Same**, size 1
- 730002 **Same**, size 2
- 730003 **Same**, size 3
- 730004 **Same**, size 4
- 730005 **Same**, size 5

- 730400 BECKMANN **Adenoid Curette**, with cage, straight, size 0, length 22 cm
- 730401 **Same**, size 1
- 730402 **Same**, size 2
- 730403 **Same**, size 3
- 730404 **Same**, size 4
- 730405 **Same**, size 5

- 731000 NEGUS **Adenoid Curette**, curved, size 0, length 21 cm
- 731001 **Same**, size 1
- 731002 **Same**, size 2
- 731003 **Same**, size 3
- 731004 **Same**, size 4
- 731005 **Same**, size 5



- 457720 BLAKESLEY-WIGAND **Nasal Forceps**, 60° upturned, long jaws 6 x 20 mm, rounded tips, working length 11 cm
- 732500 JURACZ **Adenoid Forceps**, sharp, length 19 cm



740000

740014

740200

740500

740701

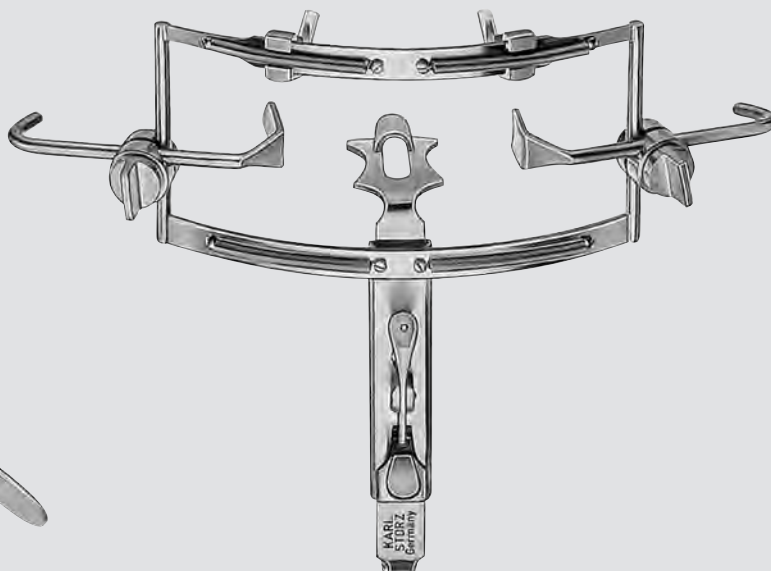
740700

740800

- 740000 **BRÜNINGS Tongue Depressor**, length 19 cm
- 740014 **Tongue Depressor**, width 20 x 25 mm, length 17.5 cm
- 740200 **FRENZEL Tongue Depressor**, length 16.5 cm
- 740500 **MORITZ-SCHMIDT Tongue Depressor**, length 19 cm
- 740701 **Tongue Depressor**, with solid handle, width 88 x 25 mm, length 15 cm
- 740700 **HARTMANN Tongue Depressor**, length 17 cm
- 740800 **HARTMANN Tongue Depressor**, for children, length 16 cm



742909 – 742913



743500

- 742909 JENNINGS **Mouth Gag**, small, length 9 cm
- 742911 **Same**, medium, standard size, length 11 cm
- 742913 **Same**, large, length 13 cm

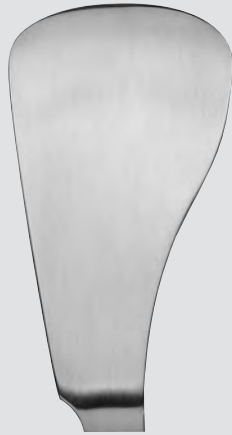
- 743500 DINGMANN **Mouth Gag**, complete including:
 - Tongue Depressor**, size 1, 55 x 25 mm
 - Tongue Depressor**, size 2, 60 x 27 mm
 - Tongue Depressor**, size 3, 70 x 30 mm
 - 2x **Cheek Retractor**, adjustable
 - 2x **Screw Connection**, complete
 - 2x **Tooth Hook**, movable

DAVIS-MEYER Tongue Blades



| | |
|--------|--|
| 743910 | DAVIS-MEYER Tongue Blade , with anesthetic tube, size 1, 28 x 68 mm |
| 743915 | Same , size 1½, 29 x 73 mm |
| 743920 | Same , size 2, 30 x 76 mm |
| 743925 | Same , size 2½, 31 x 83 mm |
| 743930 | Same , size 3, 32 x 88 mm |
| 743935 | Same , size 3½, 33 x 98 mm |
| 743940 | Same , size 4, 34 x 108 mm |

Components/Spare Parts see chapter 16

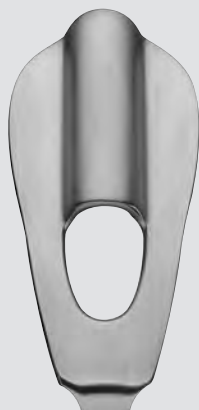


744101 –
744104



744101 –
744104

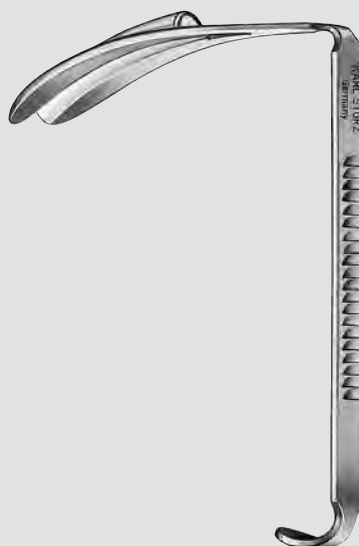
- 744101 HERBERHOLD **Tongue Blade**, with asymmetric recess, size 1, 29 x 65 mm
- 744102 **Same**, size 2, 33 x 73 mm
- 744103 **Same**, size 3, 38 x 83 mm
- 744104 **Same**, size 4, 41 x 98 mm



744200 –
744205

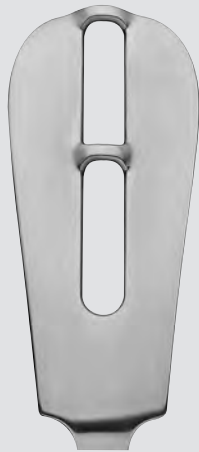


744251 –
744253



744200 –
744205

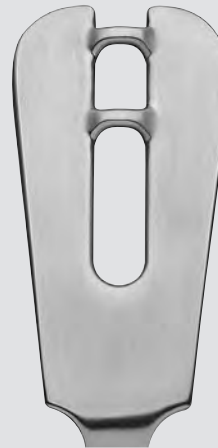
- | | | |
|------------|----------|--|
| NEW | 744200 | RUSSEL-DAVIS Tongue Blade , with central groove, size 0, 25 x 60 mm |
| | 744201 | Same , size 1, 30 x 70 mm |
| | 744202 | Same , size 2, 34 x 80 mm |
| | 744203 | Same , size 3, 39 x 84 mm |
| | 744204 | Same , size 4, 42 x 98 mm |
| | 744205 | Same , size 5, 47 x 105 mm |
| | 744201 A | RUSSEL-DAVIS Tongue Blade , with central groove, narrow blade, size 1, 19 x 62 mm |
| | 744202 A | Same , size 2, 22 x 67 mm |
| | 744203 A | Same , size 3, 25 x 75 mm |
| | 744204 A | Same , size 4, 27 x 83 mm |
| | 744205 A | Same , size 5, 34 x 90 mm |
| NEW | 744251 | Tongue Blade , with central groove and lateral opening, size 1, 30 x 70 mm |
| NEW | 744252 | Same , size 2, 34 x 80 mm |
| NEW | 744253 | Same , size 3, 39 x 84 mm |



744301 –
744305



744301 –
744305



744302 H –
744303 H



744302 H –
744303 H

- 744301 **Tongue Blade, WÜRZBURG model,** slotted, size 1, 28 x 69 mm
- 744302 **Same,** size 2, 32 x 77 mm
- 744303 **Same,** size 3, 34 x 85 mm
- 744304 **Same,** size 4, 37 x 98 mm
- 744305 **Same,** size 5, 38 x 105 mm

- 744302 H **HORNBERGER Tongue Blade,** slotted, blade size 32 x 70 mm
- 744303 H **Same,** blade size 34 x 78 mm



744402 –
744405



744402 –
744405

- 744402 RING **Tongue Blade**, size 2, 25 x 61 mm
- 744403 **Same**, size 3, 28 x 74 mm
- 744404 **Same**, size 4, 34 x 88 mm
- 744405 **Same**, size 5, 37 x 100 mm



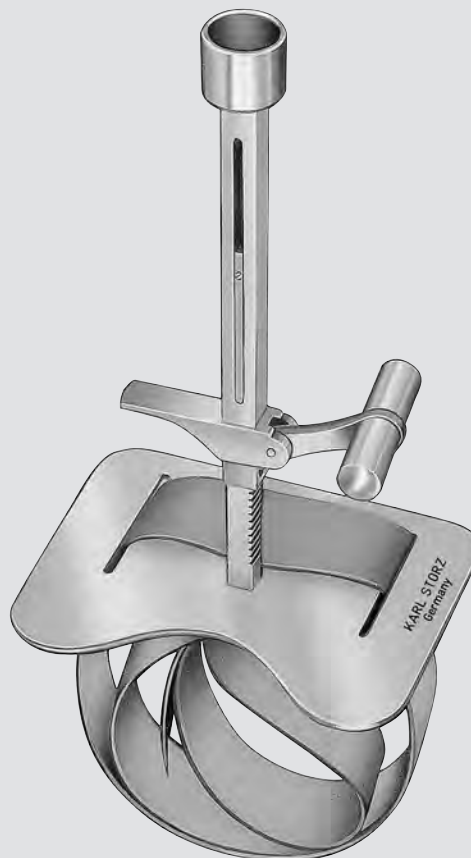
- 744500 DAVIS-MEYER **Mouth Gag**, standard model, with sliding Tooth Hook 744501, for use with Tongue Blades 743910 – 744405
- 744503 **Palate Support Blade**, for toothless patients, for use with Mouth Gags 744500, 744510
- 744510 DAVIS-MEYER **Mouth Gag**, special model, reverse opening, with 2 movable Tooth Hooks 744501, for use with Tongue Blades 743910 – 744505

11-03

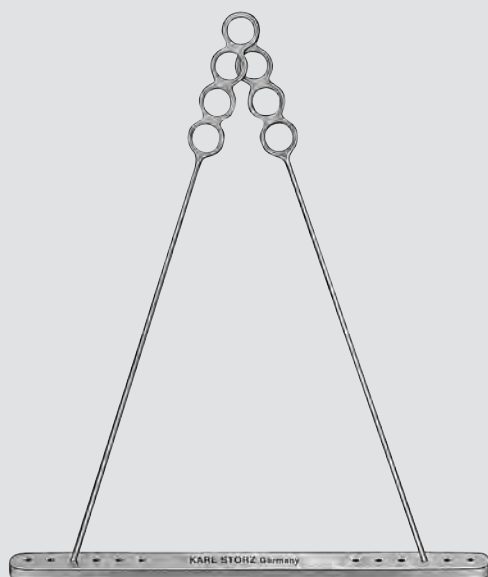
Components/Spare Parts see chapter 16



744600



744800



745200

744600

McIVOR Mouth Gag, with removable bow for replacement of rubber tube, for use with Tongue Blades 743910 – 744405

744610

McIVOR Mouth Gag, with small bow for children, with removable bow for replacement of rubber tube, width 80 mm, height 45 mm, length 15 cm, for use with Tongue Blades 743910 – 744405

744800

NEGUS Chest Support, with webbing strap, for adults, rod 14 cm, for use with Tongue Blades 743910 – 744405 and Mouth Gags 744500 – 744600

745200

DRAFFIN Suspension Apparatus Bipod, for use with Tongue Blades 743910 – 744405 and Mouth Gags 743500, 744500 – 744600

including:

2x **Rod**, with 4 rings

Base Plate

Components/Spare Parts see chapter 16

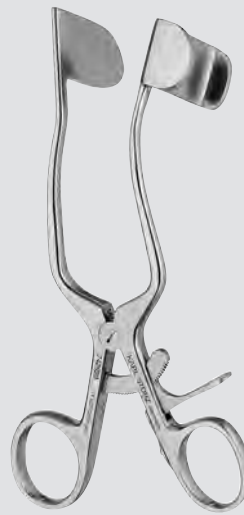
Mouth – Tonsillectomy



742900



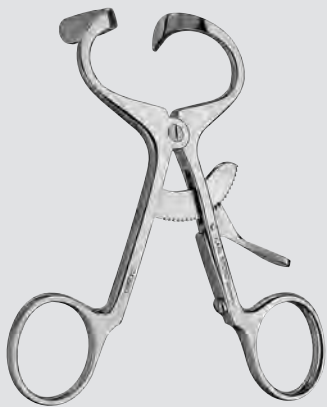
742910



742920



742950



742960

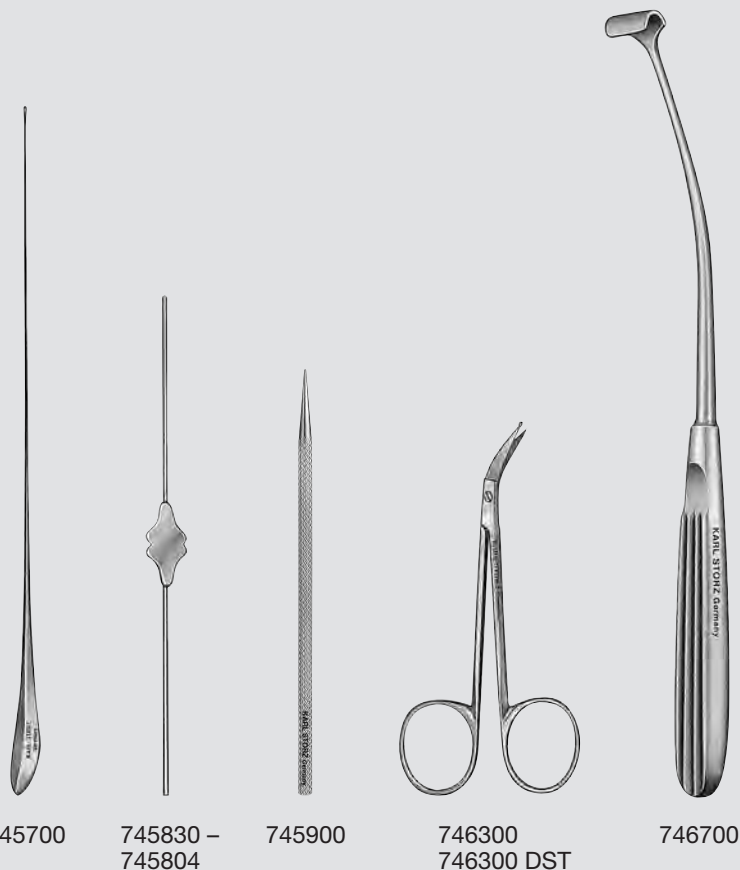
742900 **Mouth Gag**, large fenestrated blades, length 17 cm

742910 **HARTL Mouth Gag**, right blade with U-shaped curve, length 13 cm

742920 **HARTL Mouth Gag**, left blade with U-shaped curve, length 13 cm

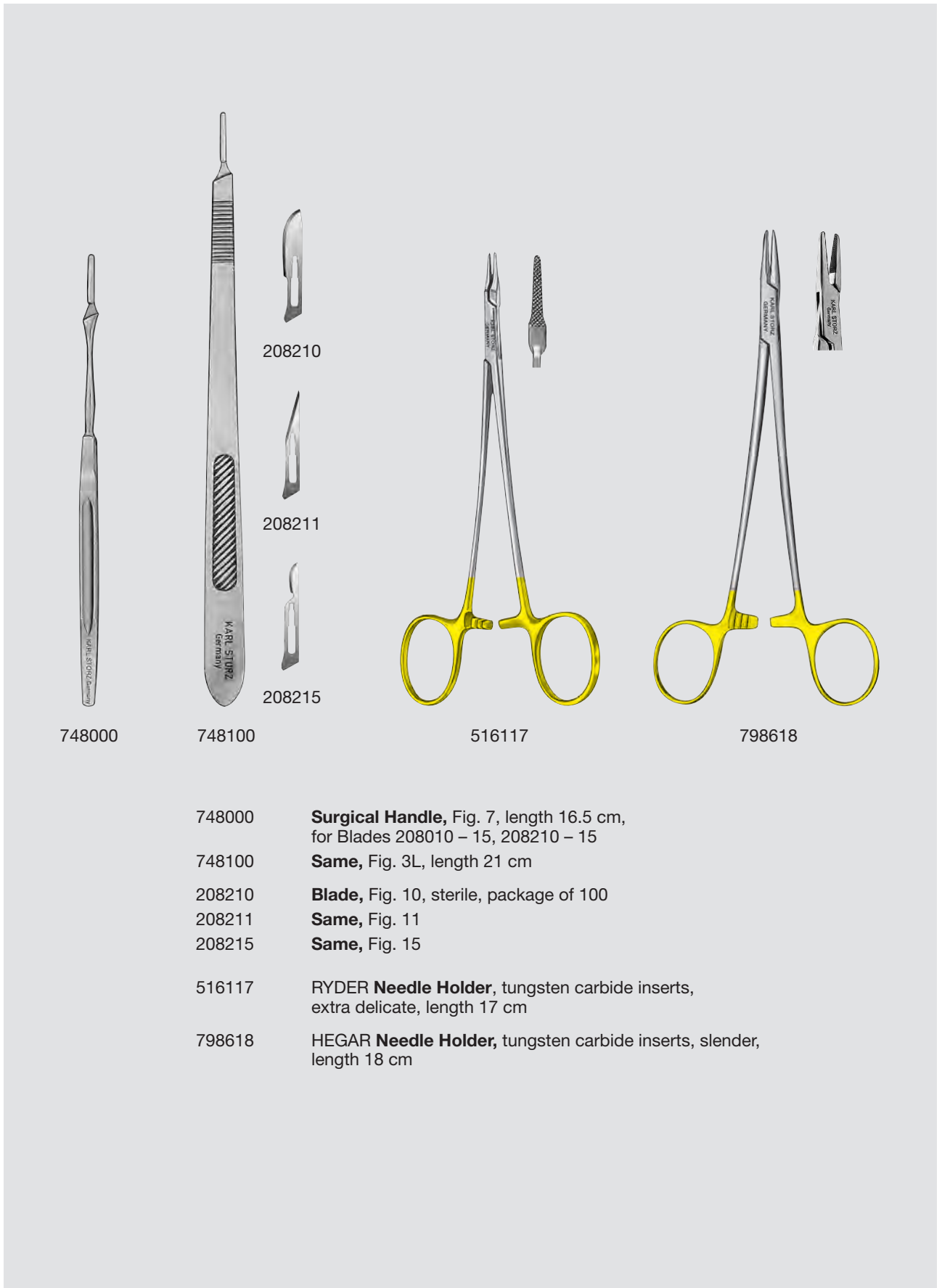
742950 **DOYEN-MOLT Mouth Gag**, length 14 cm

742960 **DOYEN-MOLT Mouth Gag**, length 10.5 cm



- 745700 SEIFFERT **Probe, for salivary duct**, silver, extra delicate, diameter 0.5 mm, length 18 cm
- 745830 BOWMAN **Probe, for salivary duct**, size 0000 – 000, diameter 0.5 and 0.6 mm, length 13 cm
- 745800 **Same**, size 00 – 0, diameter 0.7 and 0.8 mm
- 745802 **Same**, size 1 – 2, diameter 0.9 and 1.1 mm
- 745804 **Same**, size 3 – 4, diameter 1.3 and 1.4 mm
- 745900 WILDER **Dilator**, for salivary duct, length 11 cm
- 746300 **Scissors for Salivary Duct**, delicate, with ball end, length 10 cm
- 746300 DST **Same**, with titanium nitride coating, color code: copper
- 746700 NAGER **Pillar Retractor**, length 21 cm

Mouth – Tonsillectomy



748000

748100

208210

208211

208215

516117

798618

748000 **Surgical Handle**, Fig. 7, length 16.5 cm,
for Blades 208010 – 15, 208210 – 15

748100 **Same**, Fig. 3L, length 21 cm

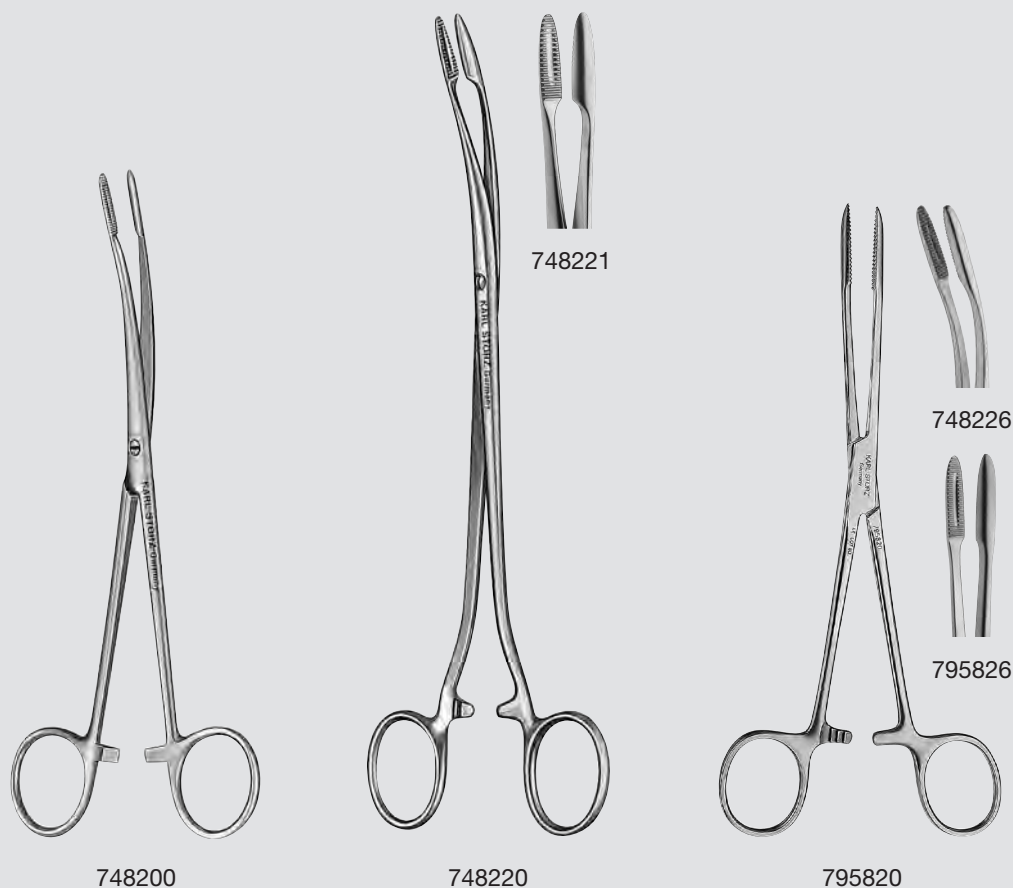
208210 **Blade**, Fig. 10, sterile, package of 100

208211 **Same**, Fig. 11

208215 **Same**, Fig. 15

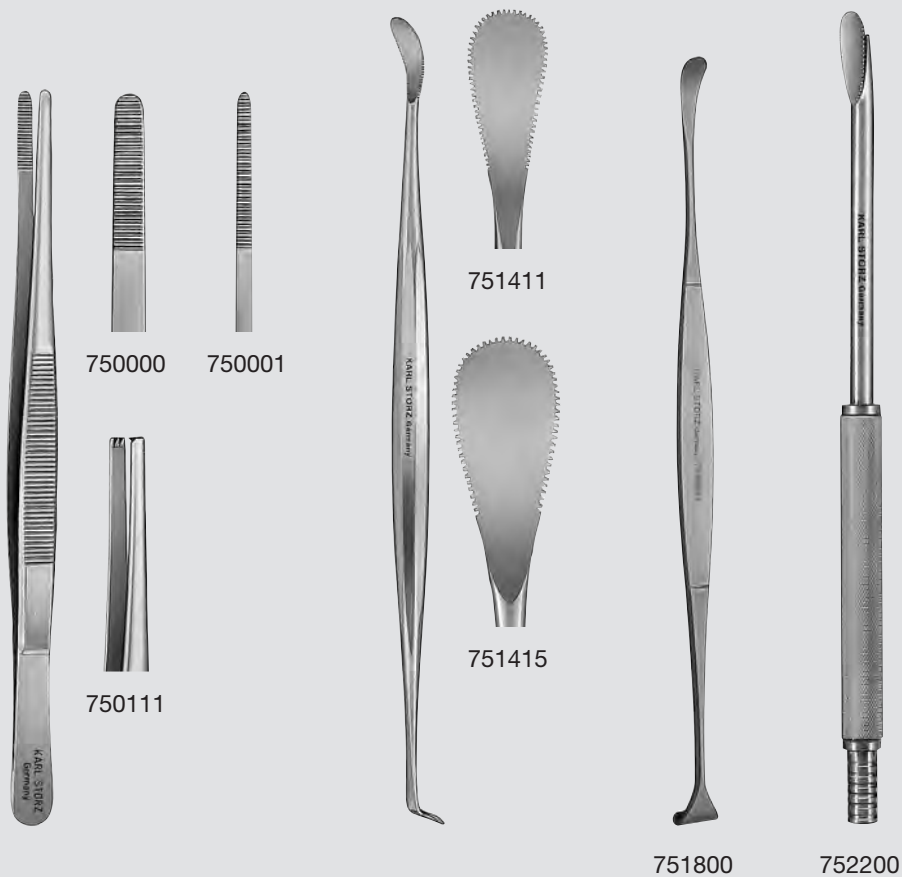
516117 **RYDER Needle Holder**, tungsten carbide inserts,
extra delicate, length 17 cm




798618 **HEGAR Needle Holder**, tungsten carbide inserts, slender,
length 18 cm



- 748200 **Dressing and Sponge Holding Forceps**, slim, curved, with ratchet, length 19 cm
- 748220 **DUPLAY Dressing and Sponge Holding Forceps**, curved, with ratchet, length 21 cm
- 748221 **Same**, straight
- 748226 **MAIER Dressing and Sponge Holding Forceps**, curved, with ratchet, length 26 cm
- 795820 **GROSS Dressing and Sponge Holding Forceps**, straight, with ratchet, length 20 cm
- 795826 **MAIER Dressing and Sponge Holding Forceps**, straight, with ratchet, length 26.5 cm

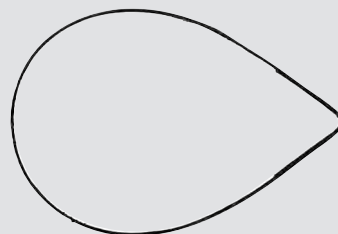
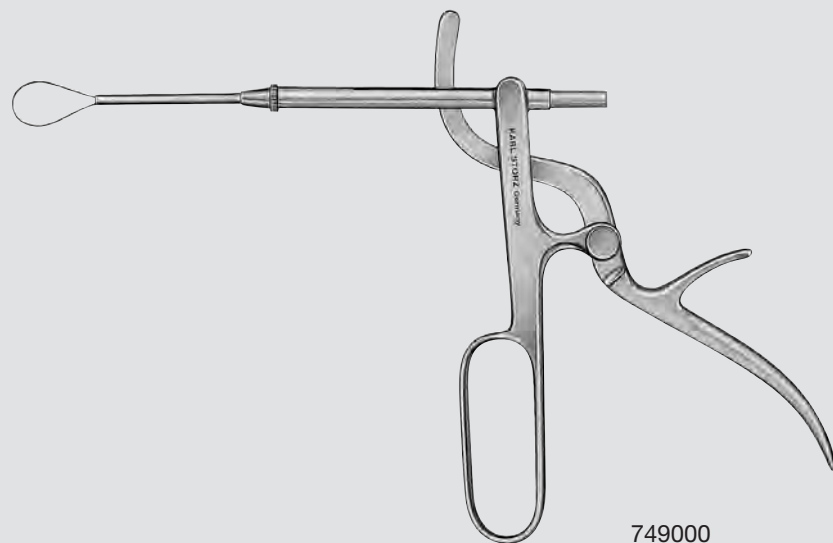
Mouth – Tonsillectomy



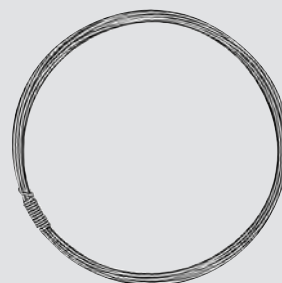
- 750000 **Forceps**, serrated, width 4 mm, length 20 cm
- 750001 **Same**, width 1.8 mm
-  750111 **Tissue Forceps**, 1 x 2 teeth, width 2 mm, length 20 cm
-  750112 **Same**, width 3.5 mm
-  750123 **Same**, 2 x 3 teeth, width 4.5 mm
- 751411 HENKE **Elevator**, width 11.5 mm, length 23.5 cm
(standard size)
- 751415 HENKE **Elevator**, width 15 mm, length 24 cm
- 751800 HURD **Dissector and Pillar Retractor**, width 9 mm,
length 22.5 cm
- 752200 STIERLEN **Suction Dissector**, width 13.5 mm,
length 24 cm

Mouth – Tonsillectomy

15 cm



754200



754300

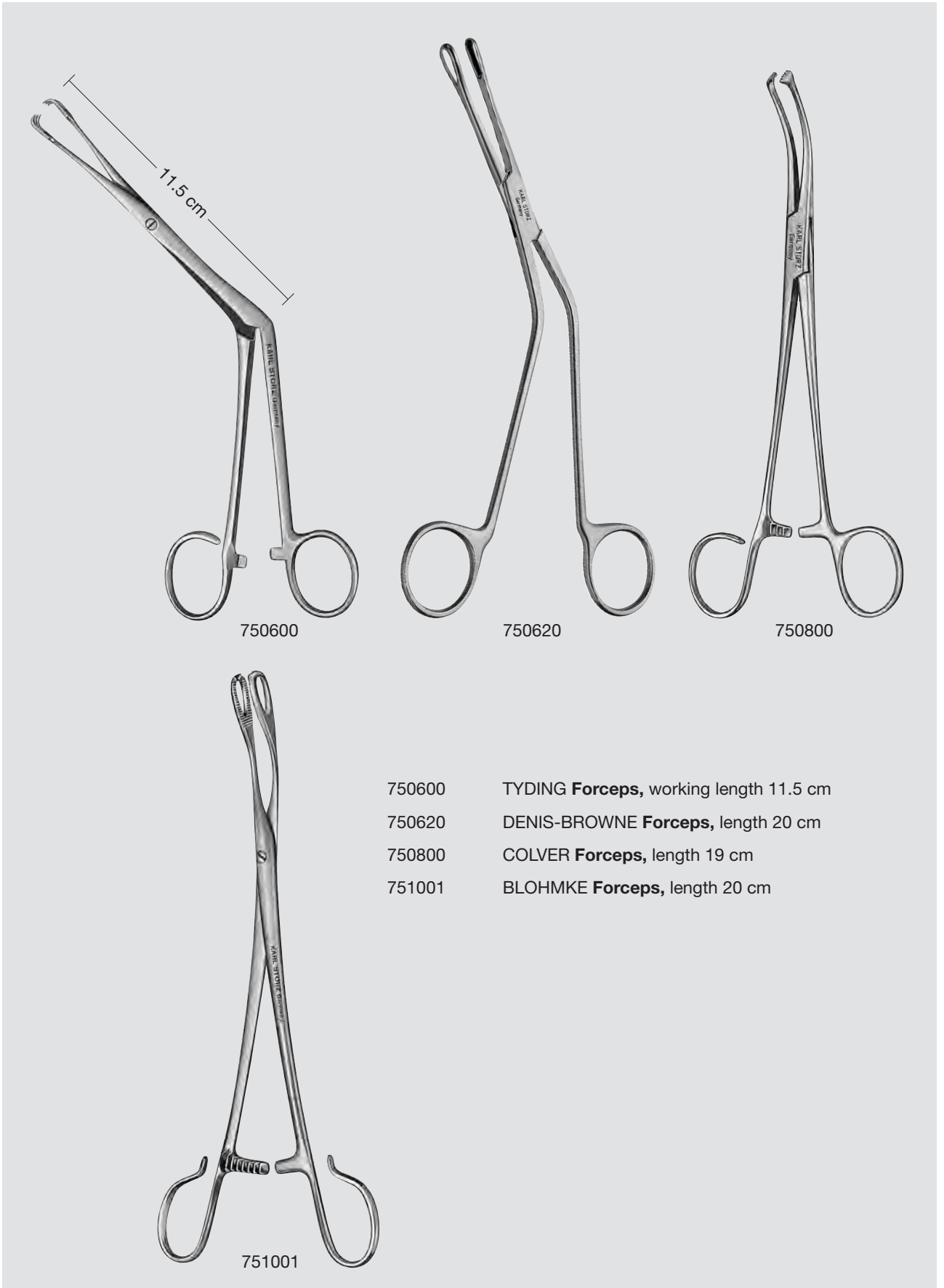


754350

- 749000 **TYDING Tonsil Snare**, working length 15 cm, for use with Wire Snare Loops 754200 or Snare Wire 754300
- 754200 **Wire Snare Loop**, stainless steel, package of 100
- 754300 **Snare Wire**, diameter 0.4 mm, 10 m roll, for use with 749000
- 754350 **Wire Cutting Scissors**, serrated, length 12.5 cm

Components/Spare Parts see chapter 16

Mouth – Tonsillectomy



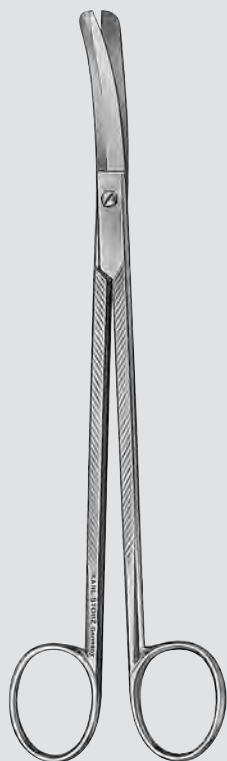
750600

750620

750800

- 750600 TYDING **Forceps**, working length 11.5 cm
- 750620 DENIS-BROWNE **Forceps**, length 20 cm
- 750800 COLVER **Forceps**, length 19 cm
- 751001 BLOHMKE **Forceps**, length 20 cm

751001



752500

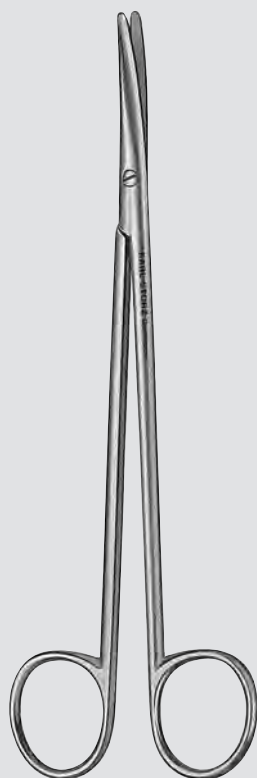


752700

752800



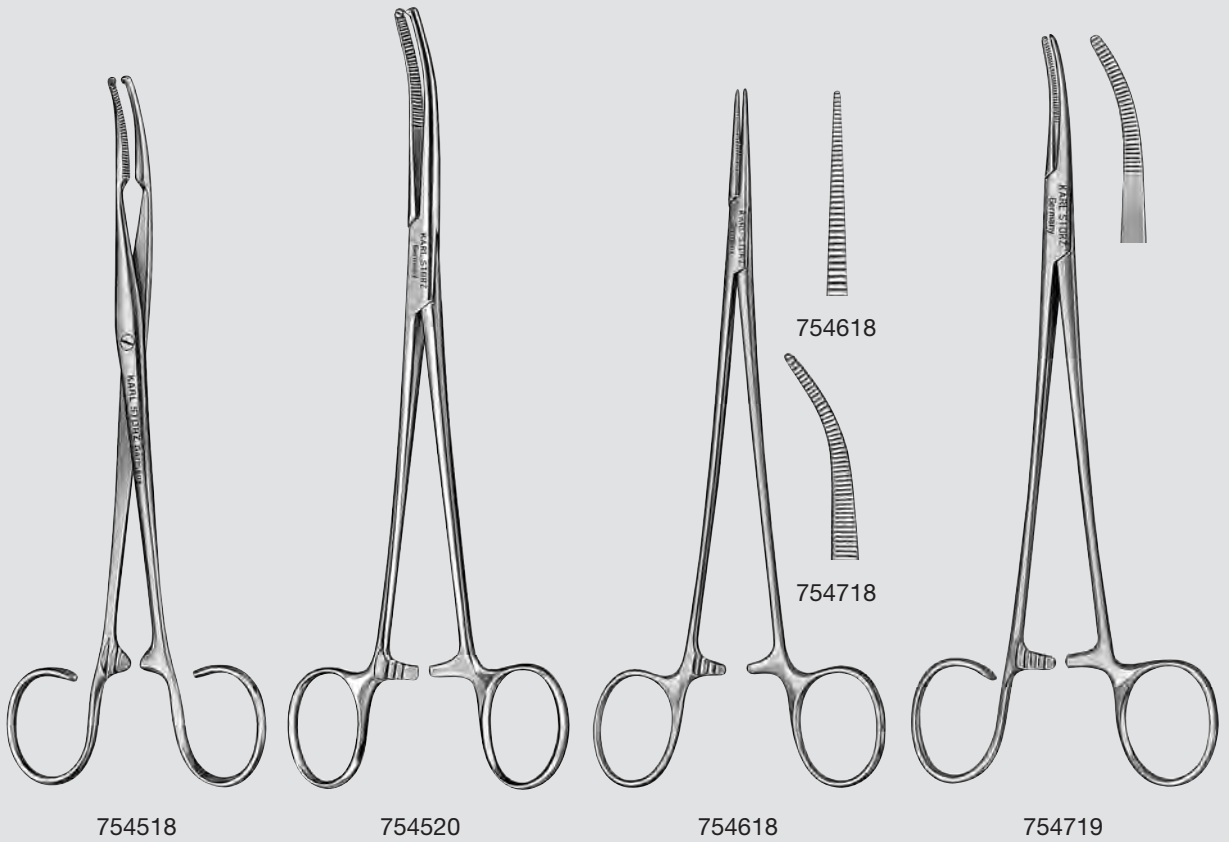
752918



752920

- 752500 GOOD **Scissors**, length 19.5 cm
- 752700 BOETTCHE **Scissors**, length 18.5 cm
- 752800 **Same**, pointed
- 752918 METZENBAUM **Scissors**, curved, length 18 cm
- 752920 **Same**, length 20 cm
- 752923 **Same**, length 23 cm
- 752928 **Same**, length 28 cm

Mouth – Tonsillectomy

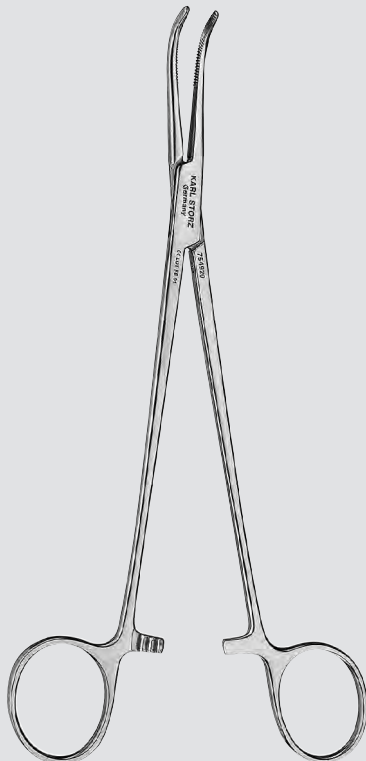


754518

754520

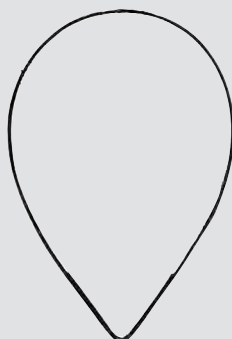
754618

754719



754920

- 754518 **MIKULICZ Forceps**, slender, 1 x 2 teeth, length 18 cm
- 754520 **Same**, robust, length 20 cm
- 754618 **“Mosquito” Forceps**, extra slender, serrated, straight, length 18 cm
- 754718 **Same**, curved
- 754719 **SCHNIDT Forceps**, slightly curved, serrated, length 19 cm
- 754920 **OVERHOLT-GEISSENDOERFER Forceps**, curved, serrated, size 0, length 21 cm



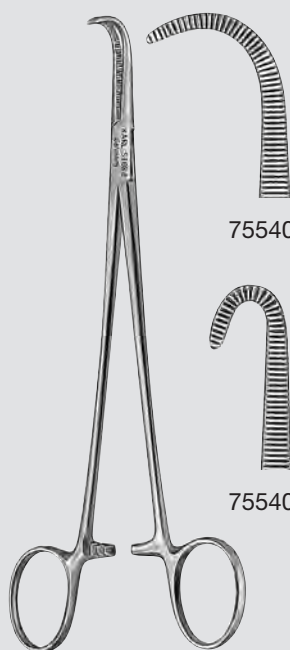
754200



755120

755220

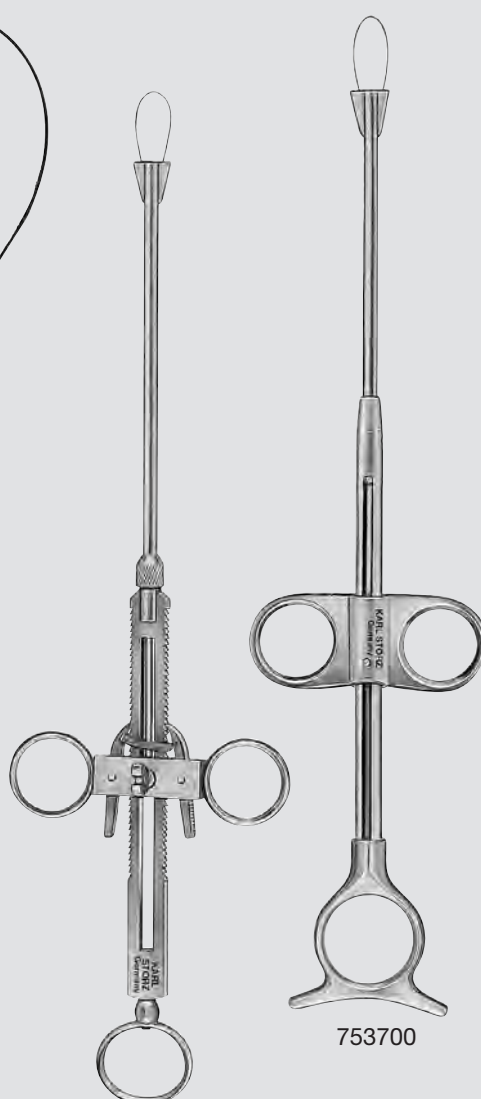
755120



755401

755402

755401



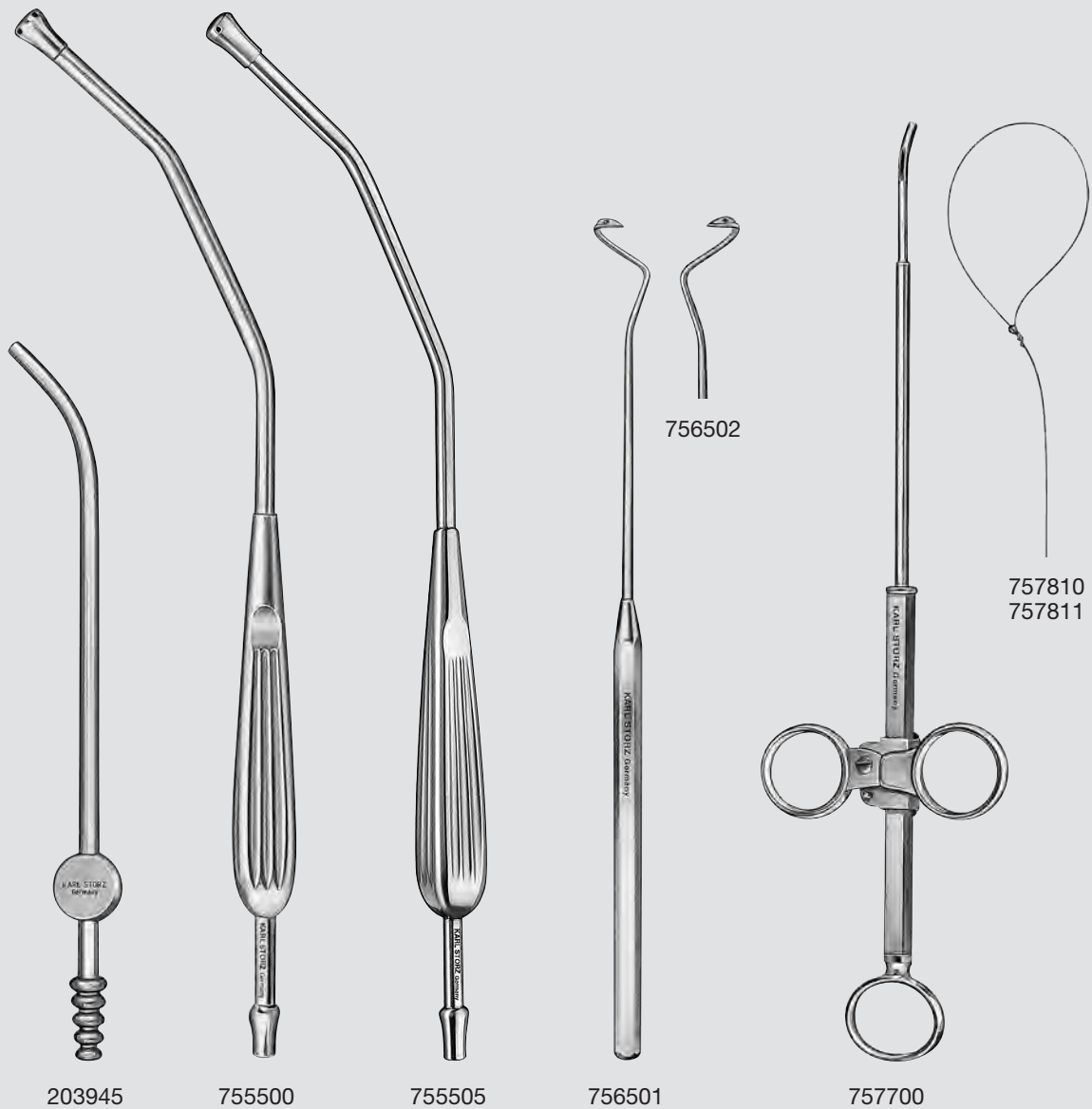
753500

753700

- 755120 HALLE-BIRKETT **Forceps**, slender, straight, length 20 cm
- 755220 **Same**, curved
- 755401 NEGUS **Forceps**, large curve, length 20 cm
- 755402 **Same**, small curve
- 753500 BRÜNINGS **Tonsil Snare**, length 29 cm
- 753700 EVES **Tonsil Snare**, length 27 cm
- 754200 **Wire Snare Loop**, stainless steel, package of 100

Components/Spare Parts see chapter 16

Mouth – Tonsillectomy



- 203945 **Suction Tube**, curved, conical, outer diameter 4.5 mm, length 20 cm
- 755500 **YANKAUER Suction Tube**, standard model, with large holes, length 29 cm
- 755505 **Same**, with small holes
- 756501 **HURD Tonsil Suture Needle**, right, length 22.5 cm
- 756502 **Same**, left
- 757700 **Roeder Loop Applicator**, model E, length 27 cm
- 757810 **Loops**, for Roeder Loop Applicator 757700, polyglycolic acid, absorbable, sterile, in package of 12, size 0
- 757811 **Same**, strength 1

Components/Spare Parts see chapter 16

Laryngeal mirrors illustrated in actual size



Size 00
Diameter 8 mm



Size 0
Diameter 10 mm



Size 1
Diameter 12 mm



Size 2
Diameter 14 mm



Size 3
Diameter 16 mm



Size 4
Diameter 18 mm



Size 5
Diameter 20 mm



Size 6
Diameter 22 mm



Size 7
Diameter 24 mm



Size 8
Diameter 26 mm



Size 9
Diameter 28 mm



Size 10
Diameter 30 mm

Laryngeal Instruments

Laryngeal Mirrors with RHODIUM Front Surface



767900 – 767910

Laryngeal Mirrors with RHODIUM Front Surface, autoclavable, with unscrewable hexagonal handle, sizes 0 – 10

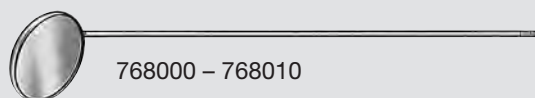
767911 **Laryngeal Mirror, with RHODIUM coating, autoclavable,** with unscrewable hexagonal handle, set of 11 mirrors, nos. 767900 – 767910, sizes 0 – 10

- 767900 size 0
- 767901 size 1
- 767902 size 2
- 767903 size 3
- 767904 size 4
- 767905 size 5
- 767906 size 6
- 767907 size 7
- 767908 size 8
- 767909 size 9
- 767910 size 10



769950

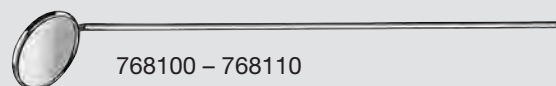
769950 **Handle, only, hexagonal, length 7.5 cm, for Laryngeal Mirrors 767900 – 767910, 770000 – 770020**



768000 – 768010

Laryngeal Mirror with RHODIUM Front Surface, autoclavable, mirror only, stem with thread, for use with hexagonal Handles 767900 – 767910 and 769950

- 768000 size 0
- 768001 size 1
- 768002 size 2
- 768003 size 3
- 768004 size 4
- 768005 size 5
- 768006 size 6
- 768007 size 7
- 768008 size 8
- 768009 size 9
- 768010 size 10



768100 – 768110

Laryngeal Mirror with RHODIUM Front Surface, autoclavable, without handle, stem without thread, size 0, for use with Handles 770500/770600

- 768100 size 0
- 768101 size 1
- 768102 size 2
- 768103 size 3
- 768104 size 4
- 768105 size 5
- 768106 size 6
- 768107 size 7
- 768108 size 8
- 768109 size 9
- 768110 size 10



770500

770500 **Handle, with set screw, length 10.5 cm, for Laryngeal Mirrors 768100 – 768110, 770100 – 770120**



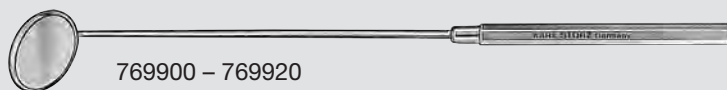
770600

770600 **Same, with central screw connection, length 11.5 cm**

For the actual size of the laryngeal mirror see page 358

Laryngeal Instruments

Laryngeal Mirrors Standard Version



769900 – 769920

Laryngeal Mirror, with unscrewable hexagonal handle, size 00 – 10

769921 **Laryngeal Mirror**, with unscrewable hexagonal handle, set of 12 mirrors, nos. 769900 – 769920, sizes 00 – 10

- 769920 size 00
- 769900 size 0
- 769901 size 1
- 769902 size 2
- 769903 size 3
- 769904 size 4
- 769905 size 5
- 769906 size 6
- 769907 size 7
- 769908 size 8
- 769909 size 9
- 769910 size 10



769950

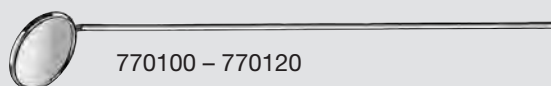
769950 **Handle**, only, hexagonal, length 7.5 cm, for Laryngeal Mirrors 767900 – 767910, 770000 – 770020



770000 – 770020

Laryngeal Mirror, mirror only, stem with thread, size 00 – 10, can be screwed on Handles 769900 – 769920 and 769950

- 770020 size 00
- 770000 size 0
- 770001 size 1
- 770002 size 2
- 770003 size 3
- 770004 size 4
- 770005 size 5
- 770006 size 6
- 770007 size 7
- 770008 size 8
- 770009 size 9
- 770010 size 10



770100 – 770120

Laryngeal Mirror, without handle, stem without thread, size 00 – 10

- 770120 size 00
- 770100 size 0
- 770101 size 1
- 770102 size 2
- 770103 size 3
- 770104 size 4
- 770105 size 5
- 770106 size 6
- 770107 size 7
- 770108 size 8
- 770109 size 9
- 770110 size 10



770500

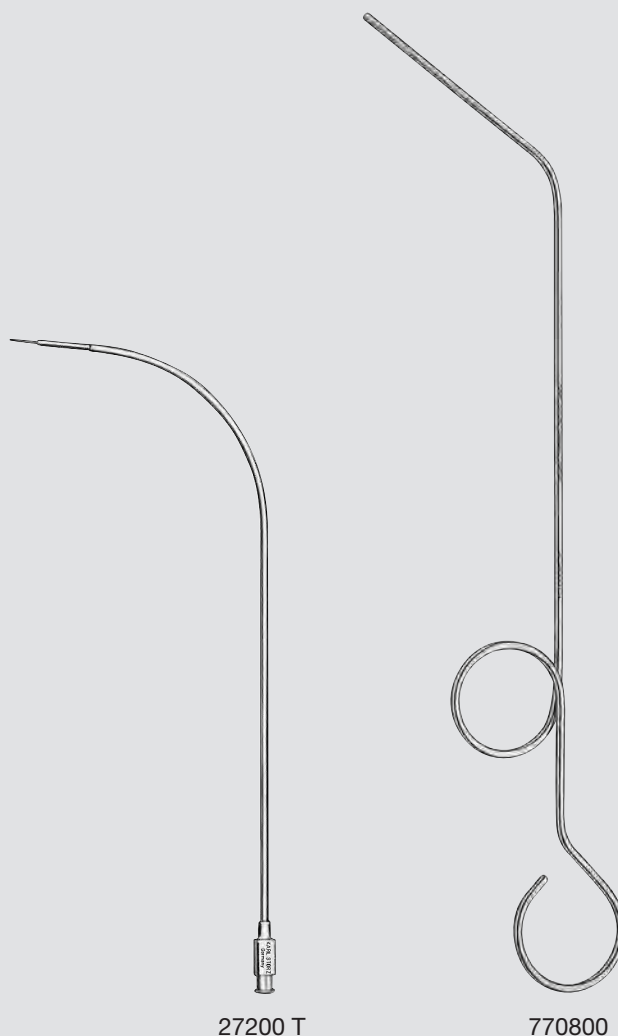
770500 **Handle**, with set screw, length 10.5 cm, for Laryngeal Mirrors 768100 – 768110, 770100 – 770120



770600

770600 **Same**, with central screw connection, length 11.5 cm

For the actual size of the laryngeal mirror see page 358



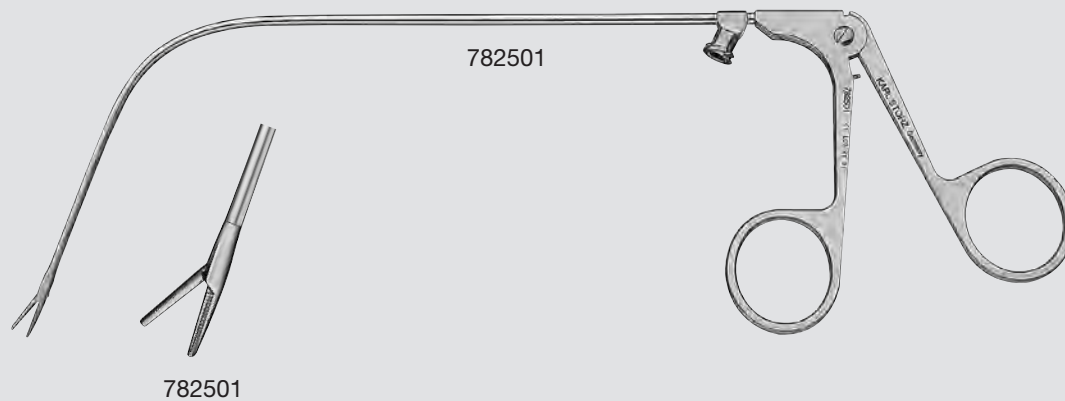
27200 T

JOUSSEN **Larynx Cannula**, curved, for single use, LUER-Lock, outer diameter of tip 0.6 mm, for collagen application, for use with High Pressure Syringe 771400 or Syringe 810002, package of 3

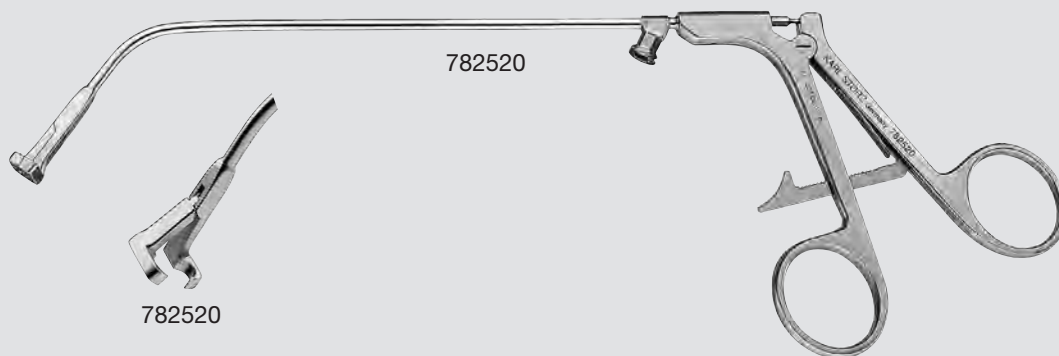
770800

PELTESON **Cotton Applicator**, working length 27 cm

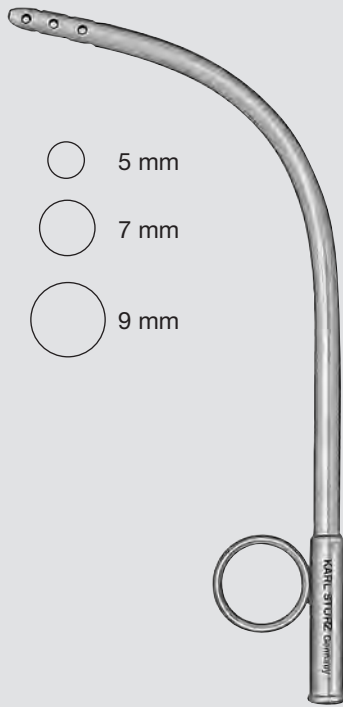
Working length 17 cm



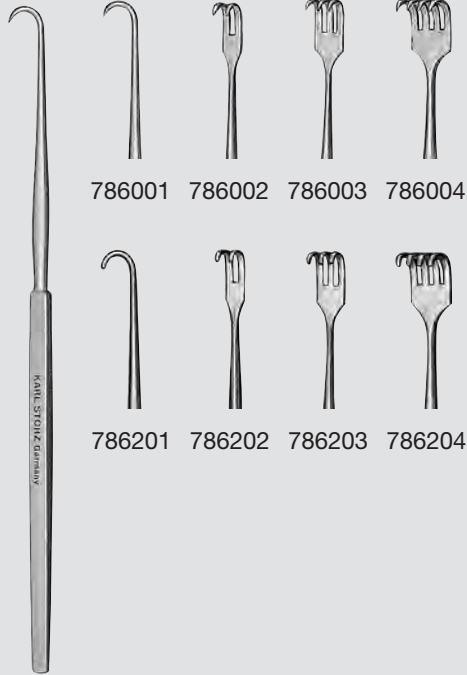
782501 **Indirect Laryngeal Forceps**, for foreign bodies, serrated, straight, open forwards, with cleaning connector, working length 17 cm



782520 **Indirect Laryngeal Forceps**, to apply needle electrodes, with ratchet, with cleaning connector, working length 17 cm



785005 –
785009



786001 786002 786003 786004

786201 786202 786203 786204



786500

785005 **BRÜNINGS Life-Saving Tube**,
outer diameter 5 mm, length 20 cm
785007 **Same**, outer diameter 7 mm
785009 **Same**, outer diameter 9 mm

786001 **Retractor**, sharp, 1 prong, length 17 cm
786002 **Same**, 2 prongs
786003 **Same**, 3 prongs
786004 **Same**, 4 prongs

786201 **Retractor**, blunt, 1 prong, length 17 cm
786202 **Same**, 2 prongs
786203 **Same**, 3 prongs
786204 **Same**, 4 prongs

786500 **SCHÖNBORN Thymus Retractor**,
width 5 mm, length 20.5 cm



403575



404075
404090



786600

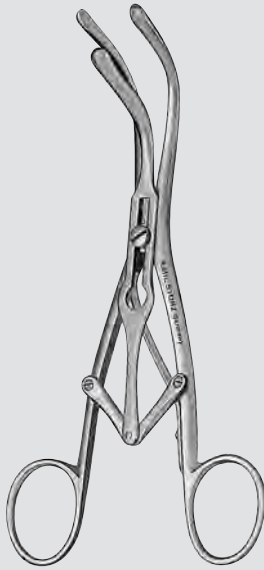
- 403575 **KILLIAN-STRUYCKEN Nasal Speculum**, standard model, blade length 75 mm, length 13.5 cm
- 404075 **Nasal Speculum**, with fiber optic light carrier, blade length 75 mm, length 13.5 cm
- 404090 **Same**, blade length 90 mm
- 786600 **WEERDA Tracheal Speculum**, length 19 cm

Please note:

LED Battery Light Sources for use with 404075 and 404090 see page 261

Components/Spare Parts see chapter 16

Larynx – Tracheotomy



786800



786900



787000

- | | |
|--------|--|
| 786800 | LABORDE Tracheal Dilator , length 15 cm, three-bladed |
| 786900 | Same , two-bladed |
| 787000 | KOCHER Probe , length 16.5 cm |



789500



789610

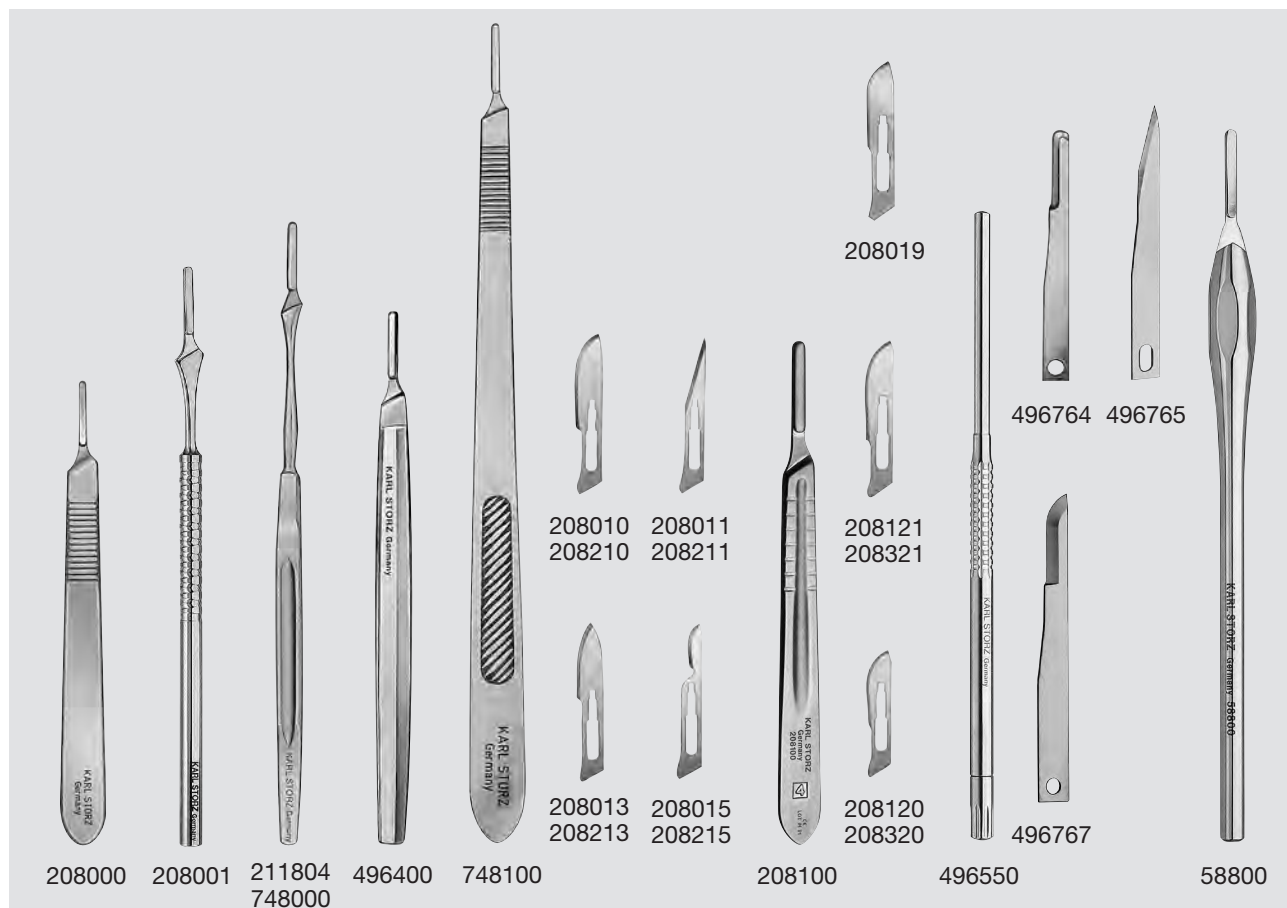
789500 **KILLIAN Laryngectomy Scissors**, double action, length 21.5 cm

789610 **Forceps**, for parotidectomy, KIEL model, angled, length 17 cm



HOSPITAL SUPPLIES
SCALPELS, SCISSORS, FORCEPS
NEEDLE HOLDERS, RETRACTORS
MISCELLANEOUS

Scalpels and Handles



| | | | |
|--------|---|------------|--|
| 208000 | Surgical Handle , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15 | 208100 | Surgical Handle , Fig. 4, length 13.5 cm, for Blades 208019, 208120 – 21, 208320 – 21 |
| 208001 | Round Surgical Handle , Fig. 3, length 15 cm, for Blades 208010 – 15, 208210 – 15 | 208120 | Blade , for Handle 208100, Fig. 20, non-sterile, package of 100 |
| 211804 | FISCH Dual Purpose Scalpel Handle , elevator on one side, scalpel handle no. 7 on the other side, length 16 cm | 208121 | Same , Fig. 21 |
| 496400 | MASING Surgical Handle , length 14 cm, for Blades 208010 – 15, 208210 – 15 | 208019 | Blade , Fig. 19, sterile, package of 100 |
| 748000 | Surgical Handle , Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15 | 208320 | Blade , for Handle 208100, Fig. 20, sterile, package of 100 |
| 748100 | Surgical Handle , Fig. 3L, length 21 cm, for Blades 208010 – 15, 208210 – 15 | 208321 | Same , Fig. 21 |
| 208010 | Blade , Fig. 10, non-sterile, package of 100 | NEW 496550 | Surgical Handle , for miniature blades, round, length 16.5 cm, for Blades 496764 – 65 |
| 208011 | Same , Fig. 11 | 496764 | Miniature Blade , Fig. 64, round, sterile, package of 25 |
| 208013 | Same , Fig. 13 | 496765 | Same , Fig. 65, pointed |
| 208015 | Same , Fig. 15 | 496767 | Same , Fig. 67, concentrated |
| 208210 | Blade , Fig. 10, sterile, package of 100 | NEW 58800 | Surgical Handle , straight, length 14 cm, for Blades 208010 – 15, 208210 – 15 |
| 208211 | Same , Fig. 11 | | |
| 208213 | Same , Fig. 13 | | |
| 208215 | Same , Fig. 15 | | |

Scissors



790501
790801



790502
790802



790503
790803

- 790501 **Scissors**, straight, sharp/sharp, length 13 cm
- 790502 **Same**, sharp/blunt
- 790503 **Same**, blunt/blunt
- 790801 **Scissors**, straight, sharp/sharp, length 14.5 cm
- 790802 **Same**, sharp/blunt
- 790803 **Same**, blunt/blunt



791001
791201



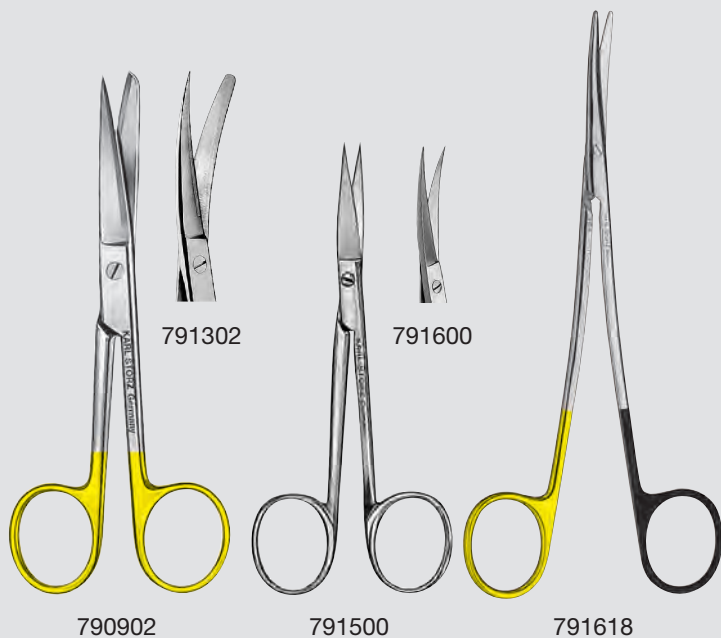
791002
791202



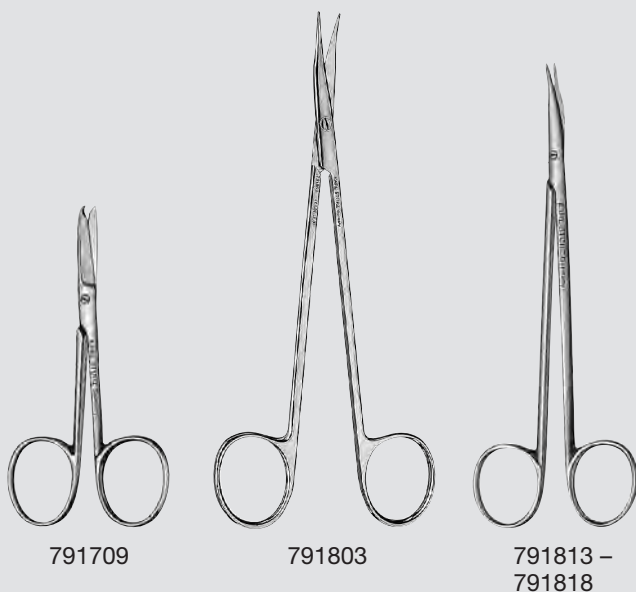
791003
791203

- 791001 **Scissors**, curved, sharp/sharp, length 13 cm
- 791002 **Same**, sharp/blunt
- 791003 **Same**, blunt/blunt
- 791201 **Scissors**, curved, sharp/sharp, length 14.5 cm
- 791202 **Same**, sharp/blunt
- 791203 **Same**, blunt/blunt

Scissors



- 790902 **Scissors**, with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm
- 791302 **Same**, curved
- 791500 **Stitch Scissors**, straight, sharp/sharp, length 12.5 cm
- 791600 **Same**, curved
- 791618 **Ligature Scissors**, with tungsten carbide inserts, curved, lower blade serrated, length 18 cm, color code: one black handle ring, one gold-plated handle ring



- 791709 **SPENCER Stitch Scissors**, length 9 cm
- 791803 **JAMESON Scissors**, curved, pointed, delicate tips, length 15.5 cm
- 791813 **REYNOLDS Scissors**, curved, delicate tips, length 13 cm
- 791815 **Same**, length 15 cm
- 791818 **Same**, length 18 cm

Scissors



791903
791905



792003
792005



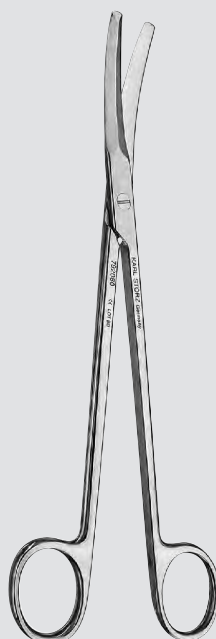
792013



792026



792071



792080

- 791903 **MAYO Scissors**, straight, length 15 cm
- 791905 **Same**, length 17 cm
- 792003 **MAYO Scissors**, curved, length 15 cm
- 792005 **Same**, length 17 cm
- 792013 **Same**, with tungsten carbide inserts
- 792026 **MAYO-LEXER Scissors**, with tungsten carbide inserts, curved, narrow blades, length 16 cm
- 792071 **TOENNIS Dissecting Scissors**, fine model, straight, blunt/blunt, length 18 cm
- 792080 **POTTS-SMITH Dissecting Scissors**, curved, blunt/blunt, length 19 cm

Scissors

Scissors with Good Cutting Quality

“The Diamond Standard®” Scissors

Special Features:

- Good cutting quality
- Razor-sharp lower blade ensures easy and efficient cutting
- Color code: one gold-plated handle ring
- Some models are available with tungsten carbide inserts, color code: one black handle ring, one gold-plated handle ring

Scissors with titanium nitride coating

Special Features:

- More durable surface
- Color code: copper
- Some models are available with tungsten carbide inserts



790802 DS



790902 DS



791002 DS
791202 DS



791003 DS
791003 DST

790802 DS **Scissors**, straight, sharp/blunt, length 14.5 cm, color code: one gold-plated handle ring

790902 DS **Scissors**, with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring

791002 DS **Scissors**, curved, sharp/blunt, length 13 cm, color code: one gold-plated handle ring

791003 DS **Same**, blunt/blunt

791003 DST **Same**, with titanium-nitride coating, color code: copper

791202 DS **Scissors**, curved, sharp/blunt, length 14.5 cm, color code: one gold-plated handle ring

Scissors

Scissors with Ultimate Cutting Quality



791302 DS
791302 DST



791815 DS



792013 DS
792013 DST

791302 DS **Scissors**, with tungsten carbide inserts, curved, sharp/blunt, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring

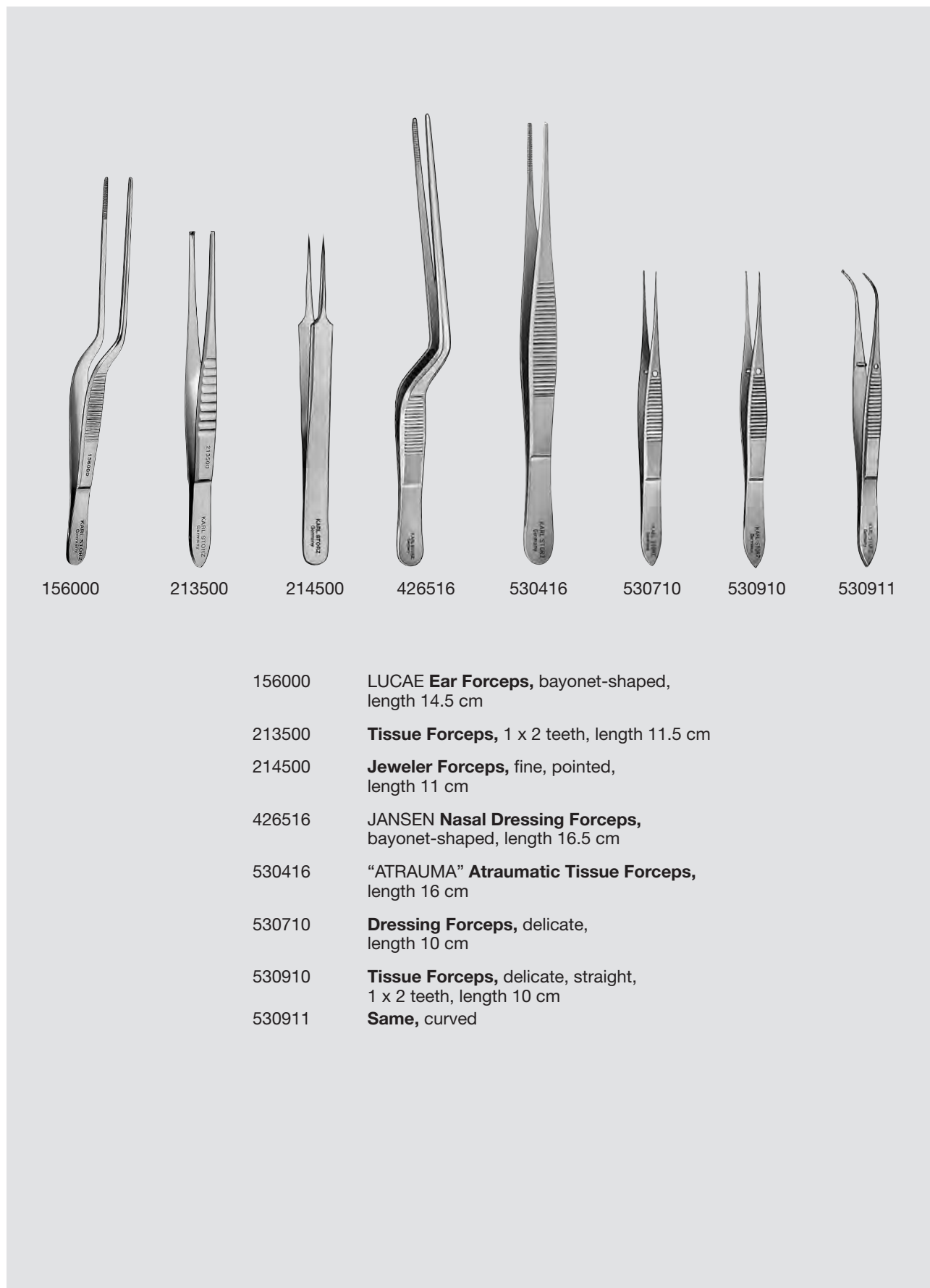
791302 DST **Same**, with titanium-nitride coating, color code: copper

791815 DS **REYNOLDS Dissecting Scissors**, curved, small tips, length 15 cm, color code: one gold-plated handle ring

792013 DS **MAYO Dissecting Scissors**, with tungsten carbide inserts, curved, length 15 cm, color code: one black handle ring, one gold-plated handle ring

792013 DST **Same**, with titanium-nitride coating, length 14.5 cm, color code: copper

Dressing and Tissue Forceps



156000

213500

214500

426516

530416

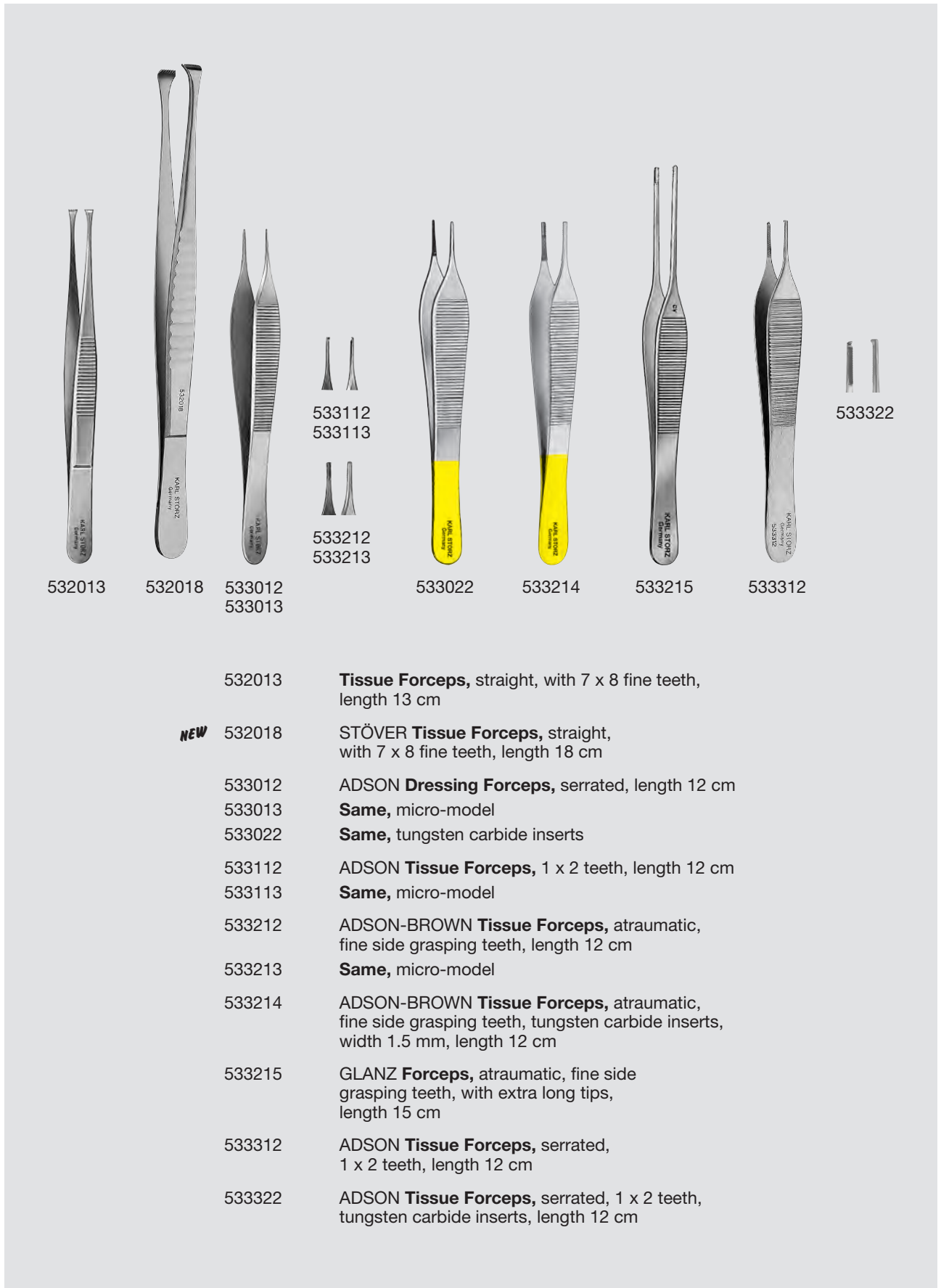
530710

530910

530911

- 156000 **LUCAE Ear Forceps**, bayonet-shaped, length 14.5 cm
- 213500 **Tissue Forceps**, 1 x 2 teeth, length 11.5 cm
- 214500 **Jeweler Forceps**, fine, pointed, length 11 cm
- 426516 **JANSEN Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm
- 530416 **“ATRAUMA” Atraumatic Tissue Forceps**, length 16 cm
- 530710 **Dressing Forceps**, delicate, length 10 cm
- 530910 **Tissue Forceps**, delicate, straight, 1 x 2 teeth, length 10 cm
- 530911 **Same**, curved

Dressing and Tissue Forceps



532013

532018

533012
533013

533112
533113

533212
533213

533022

533214

533215

533312

533322

532013

Tissue Forceps, straight, with 7 x 8 fine teeth, length 13 cm

NEW

532018

STÖVER Tissue Forceps, straight, with 7 x 8 fine teeth, length 18 cm

533012

ADSON Dressing Forceps, serrated, length 12 cm

533013

Same, micro-model

533022

Same, tungsten carbide inserts

533112

ADSON Tissue Forceps, 1 x 2 teeth, length 12 cm

533113

Same, micro-model

533212

ADSON-BROWN Tissue Forceps, atraumatic, fine side grasping teeth, length 12 cm

533213

Same, micro-model

533214

ADSON-BROWN Tissue Forceps, atraumatic, fine side grasping teeth, tungsten carbide inserts, width 1.5 mm, length 12 cm

533215

GLANZ Forceps, atraumatic, fine side grasping teeth, with extra long tips, length 15 cm

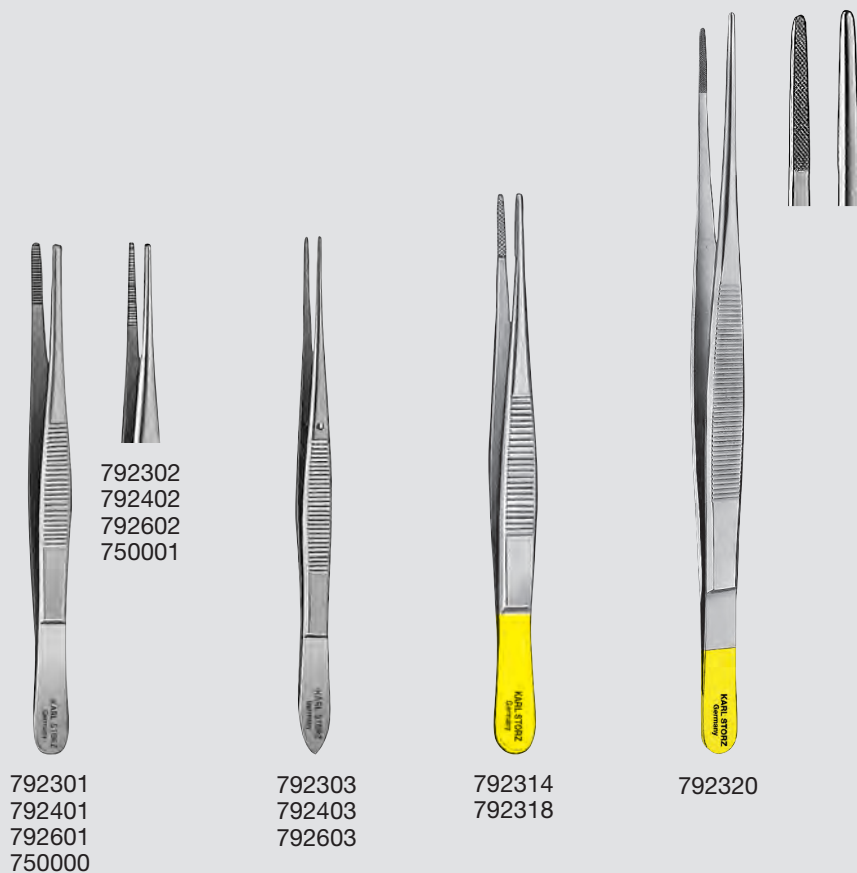
533312

ADSON Tissue Forceps, serrated, 1 x 2 teeth, length 12 cm

533322

ADSON Tissue Forceps, serrated, 1 x 2 teeth, tungsten carbide inserts, length 12 cm

Dressing Forceps



- 792301 **Dressing Forceps**, standard width, length 13 cm
- 792302 **Same**, medium
- 792303 **Same**, narrow
- 792314 **Dressing Forceps**, tungsten carbide inserts, width 1.8 mm, length 14.5 cm
- 792318 **Same**, length 18 cm
- 792320 **Atraumatic Tissue Forceps**, tungsten carbide inserts, serrated, length 20 cm
- 792401 **Dressing Forceps**, standard width, length 14.5 cm
- 792402 **Same**, medium
- 792403 **Same**, narrow
- 792601 **Dressing Forceps**, standard width, length 16 cm
- 792602 **Same**, medium
- 792603 **Same**, narrow
- 750000 **Forceps**, serrated, width 4 mm, length 20 cm
- 750001 **Same**, width 1.8 mm

Forceps



793215



793216



793220



793225



793918

793215 HELMS **Forceps**, pointed, atraumatic, length 15 cm

793216 GILLIES **Tissue Forceps**, serrated, 1 x 2 teeth, length 15.5 cm

793220 WAUGH **Tissue Forceps**, serrated, 1 x 2 teeth, length 20 cm

793225 **Same**, length 25 cm

793918 WAUGH **Tissue Forceps**, 1 x 2 teeth, length 18 cm



793301
793401
793601
750112



793302
793402
793602
750111



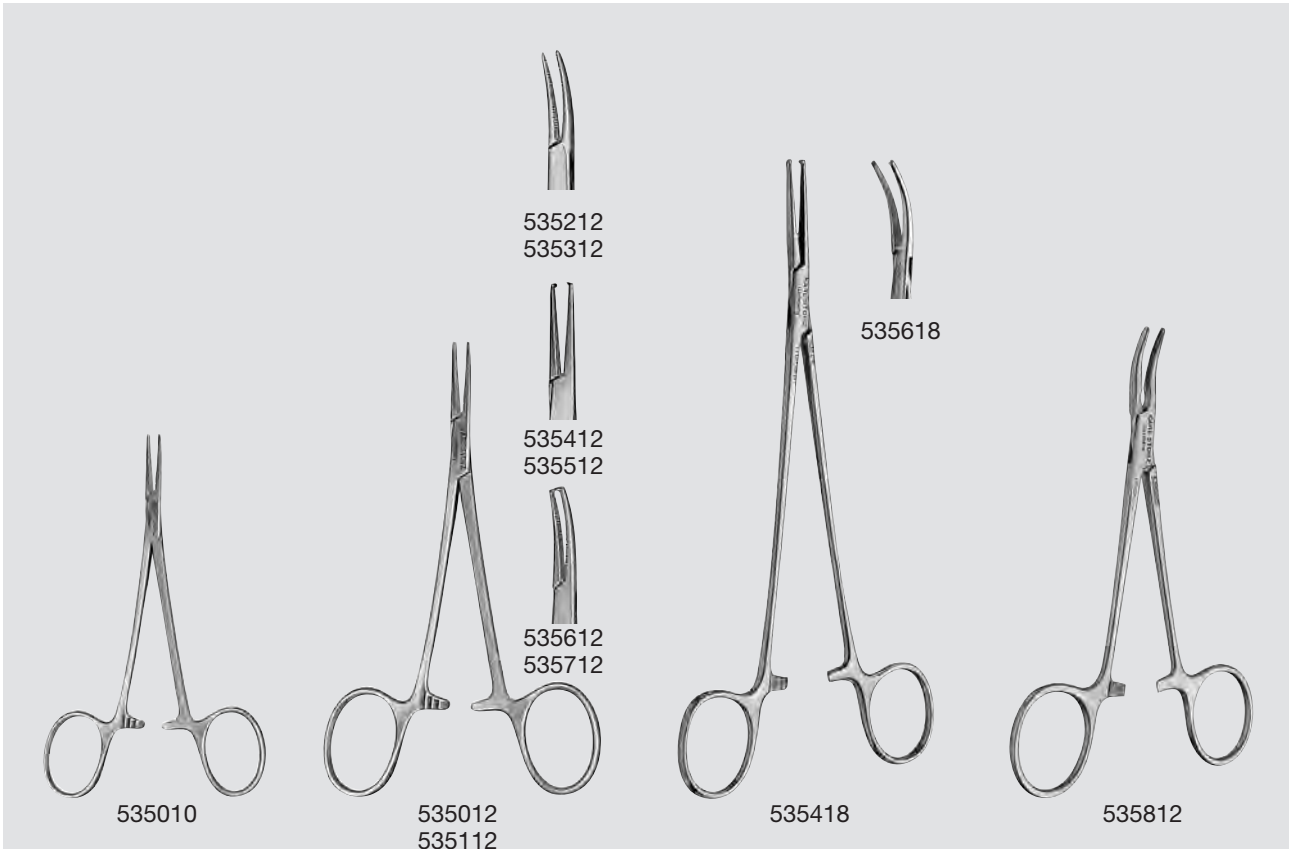
793303
793303 F
793403
793603



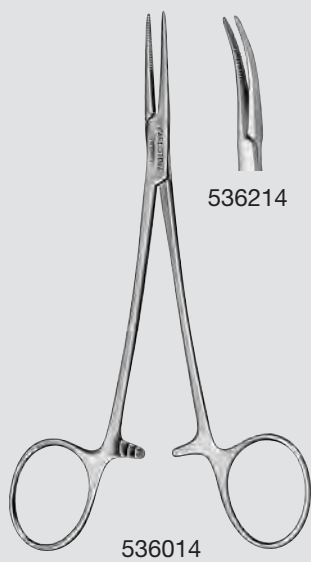
750123

- 793301 **Tissue Forceps**, 1 x 2 teeth, standard width, length 13 cm
- 793302 **Same**, medium
- 793303 **Same**, narrow
- 793303 F **Same**, slender, soft spring
- 793401 **Tissue Forceps**, 1 x 2 teeth, standard width, length 14.5 cm
- 793402 **Same**, medium
- 793403 **Same**, narrow
- 793601 **Tissue Forceps**, 1 x 2 teeth, standard width, length 16 cm
- 793602 **Same**, medium
- 793603 **Same**, narrow
- 750111 **Tissue Forceps**, 1 x 2 teeth, width 2 mm, length 20 cm
- 750112 **Same**, width 3.5 mm
- 750123 **Tissue Forceps**, 2 x 3 teeth, width 4.5 mm, length 20 cm
- 750134 **Tissue Forceps**, 3 x 4 teeth, width 4.5 mm, length 20 cm

Artery Forceps

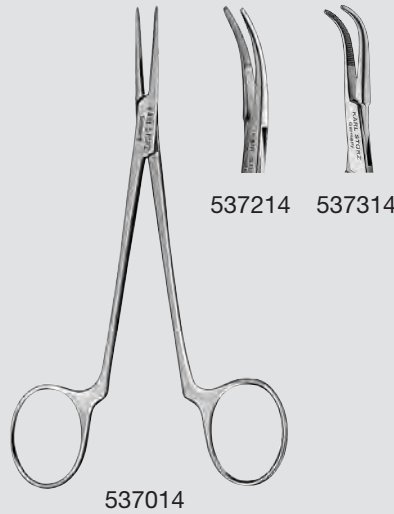


- 535010 **Baby "Mosquito" Forceps,**
straight, extra slender, length 10 cm
- 535012 **HALSTEAD "Mosquito" Artery Forceps,**
straight, length 12.5 cm
- 535112 **Same,** micro-model
- 535212 **HALSTEAD "Mosquito" Artery Forceps,**
curved, length 12.5 cm
- 535312 **Same,** micro-model
- 535412 **HALSTEAD "Mosquito" Artery Forceps,**
straight, 1 x 2 teeth, length 12.5 cm
- 535512 **Same,** micro-model
- 535612 **Same,** curved
- 535712 **Same,** micro-model, curved
- 535418 **HALSTEAD "Mosquito" Artery Forceps,**
straight, 1 x 2 teeth, length 18 cm
- 535618 **Same,** curved
- 535812 **DE BAKEY "Mosquito" Artery Forceps,**
atraumatic, curved, length 12 cm
- 536014 **Artery Forceps, PROVIDENCE model,**
delicate, straight, length 14 cm
- 536214 **Same,** curved



1-914

Artery Forceps



- 536414 CRILE **Artery Forceps**, straight, length 14 cm
- 536514 **Same**, curved
- 536814 KELLY **Artery Forceps**, straight, length 14 cm
- 536816 **Same**, length 16 cm
- 536909 **Dissecting and Ligature Forceps**, straight, smooth jaws, length 9.5 cm
- 536914 KELLY **Artery Forceps**, curved, length 14 cm
- 536916 **Same**, length 16 cm
- 537014 **Dissecting Forceps**, straight, without ratchet, length 14 cm
- 537214 **Same**, slightly curved
- 537314 **Same**, strongly curved
- 537222 **Artery Forceps**, slightly curved, without ratchet, length 22.5 cm
- 539330 **Bulldog Clamp**, curved, length 5 cm
- 539327 DIEFENBACH **Bulldog Clamp**, curved, length 4 cm

Artery Forceps



789610

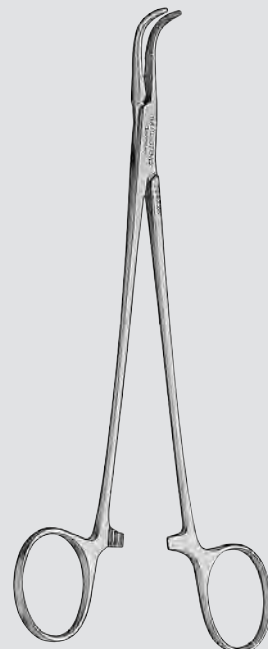


789614



794014 –
794020

794214 –
794220



794228



794514 –
794520

794814 –
794818

- 789610 **Forceps**, for parotidectomy, KIEL model, angled, length 17 cm
- 789614 **Parotid Spreading Forceps**, curved, fine, length 14 cm
- 794014 **ROCHESTER-PEAN Artery Forceps**, straight, length 14 cm
- 794016 **Same**, length 16 cm
- 794018 **Same**, length 18 cm
- 794020 **Same**, length 20 cm
- 794214 **ROCHESTER-PEAN Artery Forceps**, curved, length 14 cm
- 794216 **Same**, length 16 cm
- 794218 **Same**, length 18 cm
- 794220 **Same**, length 20 cm
- 794228 **ADSON Artery Forceps**, curved 90°, slender, length 18 cm
- 794514 **OCHSNER-KOCHER Artery Forceps**, straight, 1 x 2 teeth, length 14 cm
- 794516 **Same**, length 16 cm
- 794518 **Same**, length 18 cm
- 794520 **Same**, length 20 cm
- 794814 **OCHSNER-KOCHER Artery Forceps**, curved, 1 x 2 teeth, length 14 cm
- 794816 **Same**, length 16 cm
- 794818 **Same**, length 18 cm

Forceps



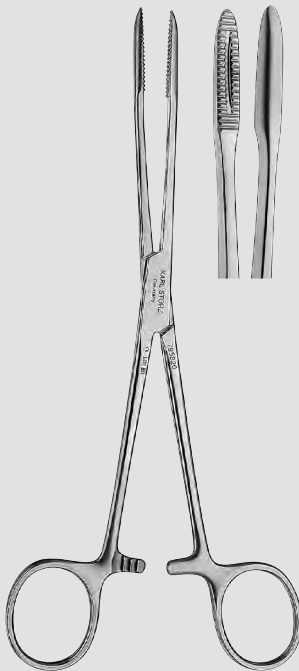
795015
795016



795115



795720



795820
795826



795890

795015

ALLIS Forceps, 4 x 5 teeth, length 15 cm

795016

Same, 5 x 6 teeth

795115

BRAUN Hook Forceps, 4 x 4 teeth, length 15.5 cm

795720

GROSS-MAIER Dressing and Sponge Holding Forceps, straight, with groove, without ratchet, length 20 cm

795820

GROSS Dressing and Sponge Holding Forceps, straight, with ratchet, length 20 cm

795826

MAIER Dressing and Sponge Holding Forceps, straight, with ratchet, length 26.5 cm

795890

Foreign Body Forceps, slightly curved, serrated, with ratchet, length 21 cm

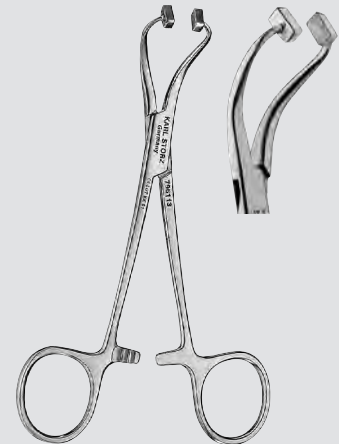
Towel Forceps



796008 –
796013



796109



796113



796209



796413



796699

796008 **BACKHAUS Towel Forceps**,
length 9 cm

796011 **Same**, length 11 cm

796013 **Same**, length 13 cm

796109 **Towel Forceps**, with serrated inserts,
length 9.5 cm, for paper cover sheets

796113 **Towel Forceps**, with serrated inserts,
length 13 cm, for paper cover sheets

796209

SCHÄDEL Towel Forceps,
length 9 cm

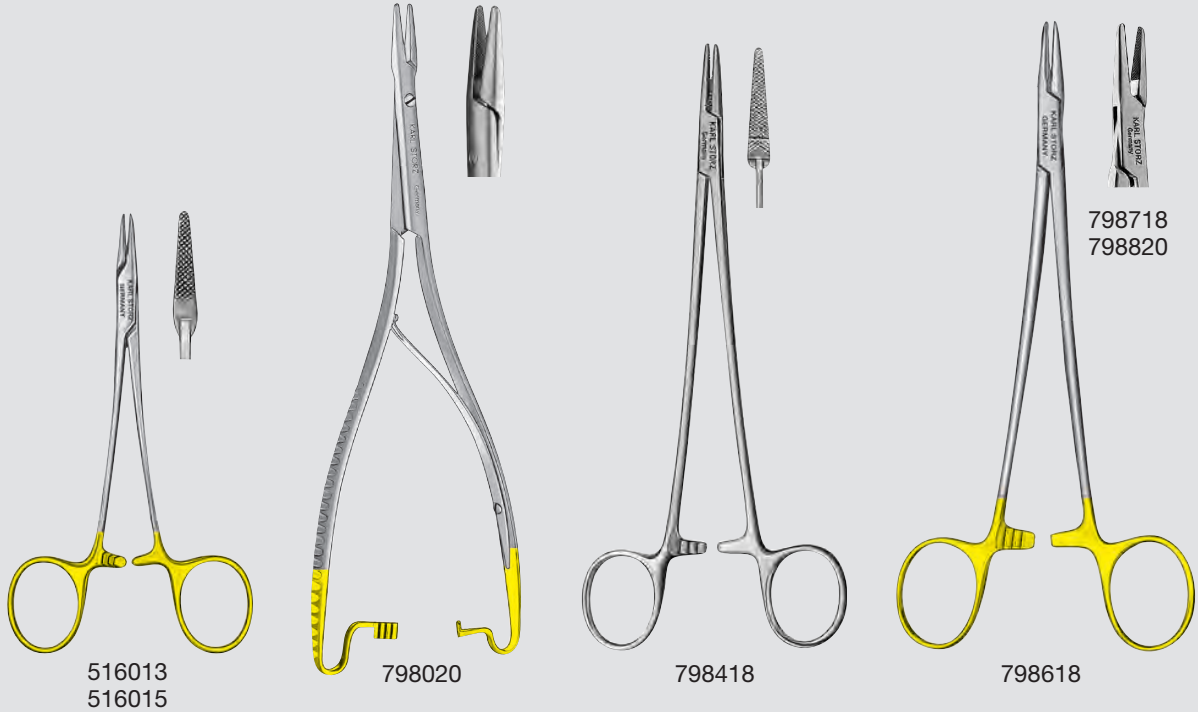
796413

EDNA-LORNA Towel Forceps,
serrated, non-perforating,
length 13 cm

796699

Safety Pin, for holding
ring handle instruments,
length 14 cm

Needle Holders



- 516013 **Needle Holder**, tungsten carbide inserts, length 13 cm
- 516015 **Same**, length 15 cm
- 798020 **MATHIEU Needle Holder**, tungsten carbide jaws, slender, length 20 cm
- 798418 **HEGAR Needle Holder**, slender, length 18 cm
- 798618 **Same**, tungsten carbide inserts
- 798718 **HEGAR-MAYO Needle Holder**, tungsten carbide inserts, robust, length 18 cm
- 798820 **HEGAR Needle Holder**, tungsten carbide inserts, robust, length 20 cm
- 799016 **DRAF Micro Needle Holder**, extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm
- 800001 **DESCHAMPS Ligature Needle**, curved to right, length 20 cm
- 800002 **Same**, curved to left
- 800005 **FISCH Aneurysm Needle**, curved, length 20 cm

BARRAQUER Micro Instruments



799114



799214



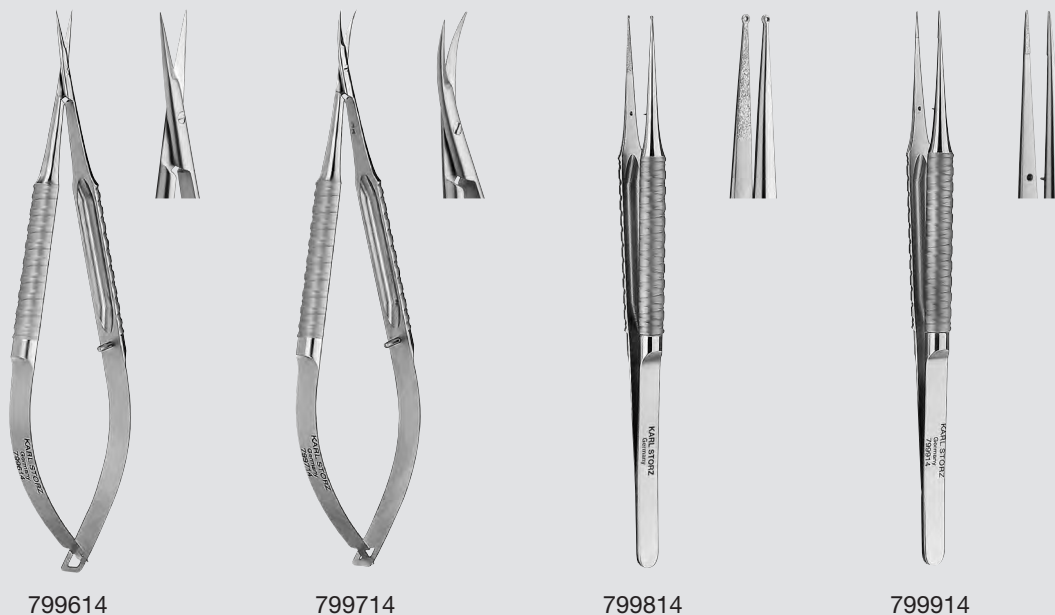
799314



799414

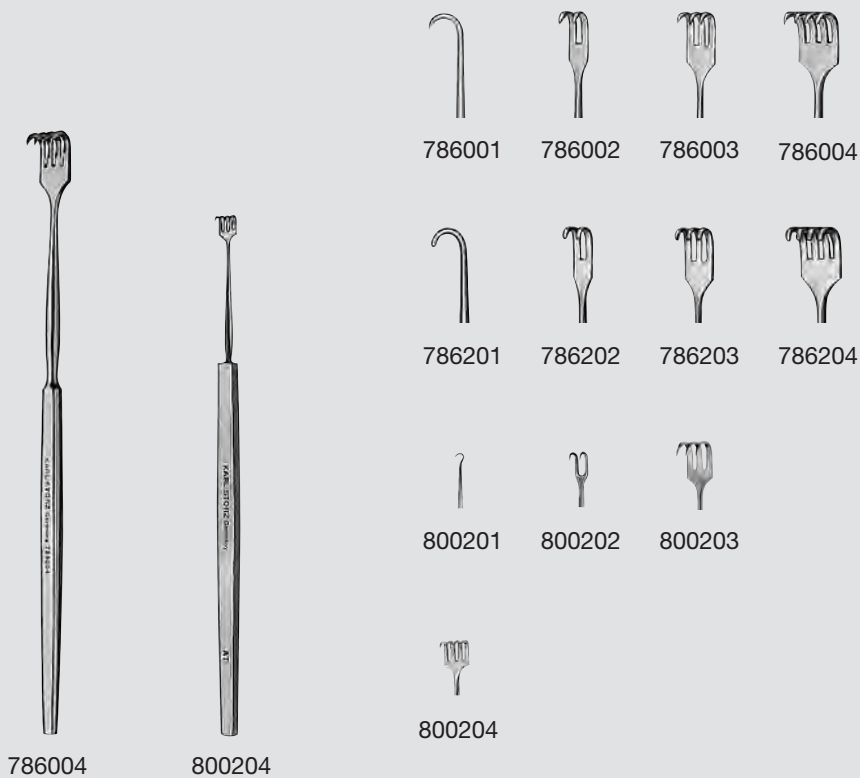


- 799114 **BARRAQUER Micro Needle Holder**, with round spring handle, straight, smooth-coated jaws, with ratchet, length 14 cm
- 799118 **Same**, length 18 cm
- 799214 **BARRAQUER Micro Needle Holder**, with round spring handle, curved, smooth-coated jaws, with ratchet, length 14 cm
- 799216 **Same**, length 16 cm
- 799218 **Same**, length 18 cm
- 799314 **BARRAQUER Micro Needle Holder**, with round spring handle, straight, serrated, tungsten carbide jaws, with ratchet, length 14 cm
- 799316 **Same**, length 16 cm
- 799414 **BARRAQUER Micro Needle Holder**, with round spring handle, curved, serrated, tungsten carbide jaws, with ratchet, length 14 cm
- 799418 **Same**, length 18 cm

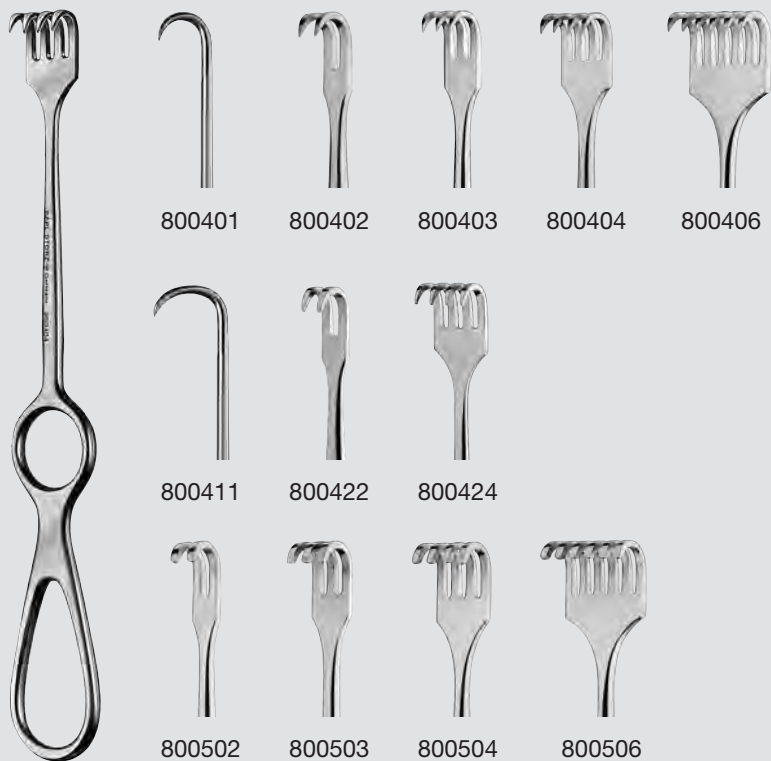


- 799614 **Micro Scissors**, with round spring handle, straight, serrated cutting edge, length 14 cm
- 799616 **Same**, length 16 cm
- 799618 **Same**, length 18 cm
- 799714 **Micro Scissors**, with round spring handle, curved, serrated cutting edge, length 14 cm
- 799716 **Same**, length 16 cm
- 799718 **Same**, length 18 cm
- 799814 **Micro Ring Forceps**, with round spring handle, straight, coated, length 14 cm
- 799818 **Same**, length 18 cm
- 799914 **Micro Forceps**, with round spring handle, straight, coated, length 14 cm
- 799916 **Same**, length 16 cm

Retractors



- 786001 **Retractor**, sharp, 1 prong, length 17 cm
- 786002 **Same**, 2 prongs
- 786003 **Same**, 3 prongs
- 786004 **Same**, 4 prongs
- 786201 **Retractor**, blunt, 1 prong, length 17 cm
- 786202 **Same**, 2 prongs
- 786203 **Same**, 3 prongs
- 786204 **Same**, 4 prongs
- 800201 **Retractor**, extra fine, sharp, 1 prong, length 12 cm
- 800202 **Same**, 2 prongs
- 800203 **Retractor**, extra fine, sharp, 3 prongs, length 13 cm
- 800204 **Retractor**, extra fine, sharp, 4 prongs, length 13 cm



800401 VOLKMANN Retractor, sharp, 1 prong, length 21 cm
 800402 **Same**, 2 prongs
 800403 **Same**, 3 prongs
 800404 **Same**, 4 prongs
 800406 **Same**, 6 prongs

800411 VOLKMANN Retractor, sharp, 1 prong, long curve for cheekbone, length 21 cm

800422 VOLKMANN Retractor, semisharp, 2 prongs, size 8.5 x 8 mm, length 22 cm

800424 VOLKMANN Retractor, semisharp, 4 prongs, length 21 cm

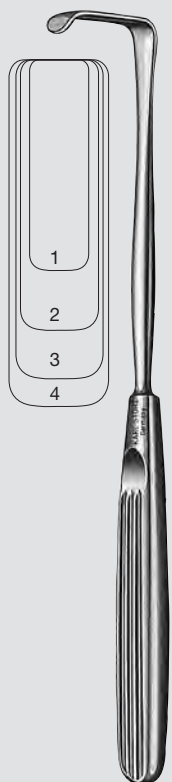
800502 VOLKMANN Retractor, blunt, 2 prongs, length 21 cm

800503 **Same**, 3 prongs

800504 **Same**, 4 prongs

800506 **Same**, 6 prongs

Retractors



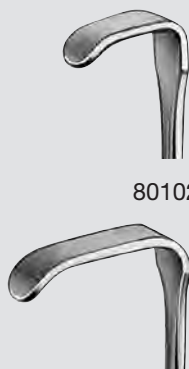
801001 –
801004



801020



801022



801025



801201



801202

- 801001 LANGENBECK **Retractor**, size 1, 25 x 7.5 mm, length 22 cm
- 801002 **Same**, size 2, 31 x 9 mm
- 801003 **Same**, size 3, 37 x 10.5 mm
- 801004 **Same**, size 4, 40 x 12 mm
- 801020 LANGENBECK-GREEN **Retractor**, with flat handle, 10 x 4 mm, length 16 cm
- 801022 **Same**, 16 x 6 mm
- 801025 **Same**, 24 x 6 mm

- 801201 MIDDELDORPF **Retractor**, with grid handle, small, size 1, 15 x 15 mm, length 20 cm
- 801202 **Same**, medium, size 2, 20 x 20 mm

Retractors



801403

801404

801414

801600

801700

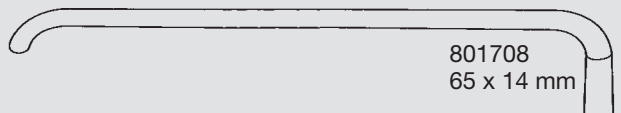
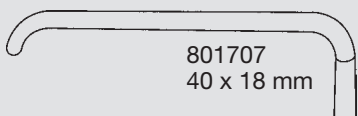
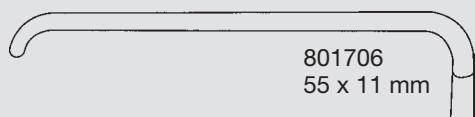
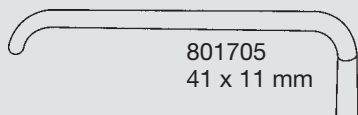
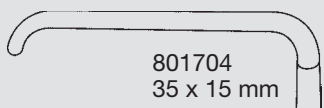
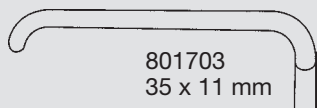
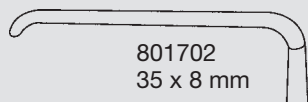
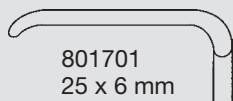
801800



58147

- 801403 ISRAEL **Retractor**, blunt, 3 prongs, size 36 x 30 mm, length 22 cm
- 801404 **Same**, 4 prongs, size 40 x 40 mm, length 24 cm
- 801414 GLANZ **Retractor**, blunt, 4 prongs, curved backwards, size 30 x 12 mm, length 21 cm, for retraction of the jugular vein during throat surgery
- 801600 LANGENBECK **Retractor**, oval blade, size 60 x 20 mm, length 21.5 cm
- 801700 **Same**, rectangular blade
- 801800 LANGENBECK **Retractor**, size 33 x 14 mm, length 21.5 cm
- 58147 **Orbital Retractor**, angled 80°, with scale, with flat handle, size 40 x 8 mm, length 16 cm

Retractors



801701 –
801706

801707
801708

801701 **KOCHER-LANGENBECK Retractor**, size 25 x 6 mm, length 21.5 cm

801702 **Same**, size 35 x 8 mm

801703 **Same**, size 35 x 11 mm

801704 **Same**, size 35 x 15 mm

801705 **Same**, size 41 x 11 mm

801706 **Same**, size 55 x 11 mm

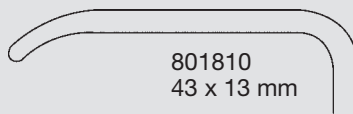
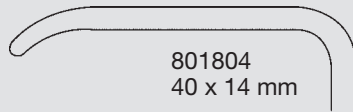
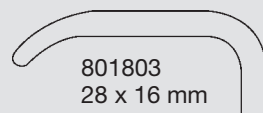
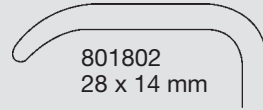
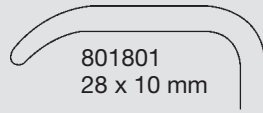
801707 **KOCHER Retractor**, size 40 x 18 mm, length 23 cm

801708 **KOCHER-LANGENBECK Retractor**, size 65 x 14 mm, length 21.5 cm

Retractors



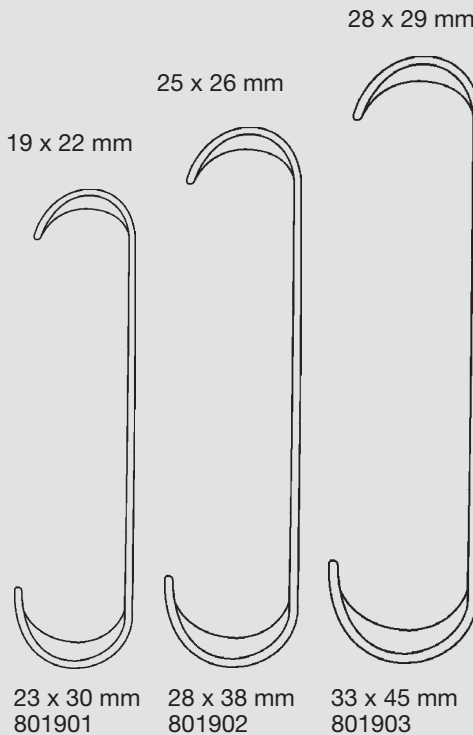
801801 –
801810



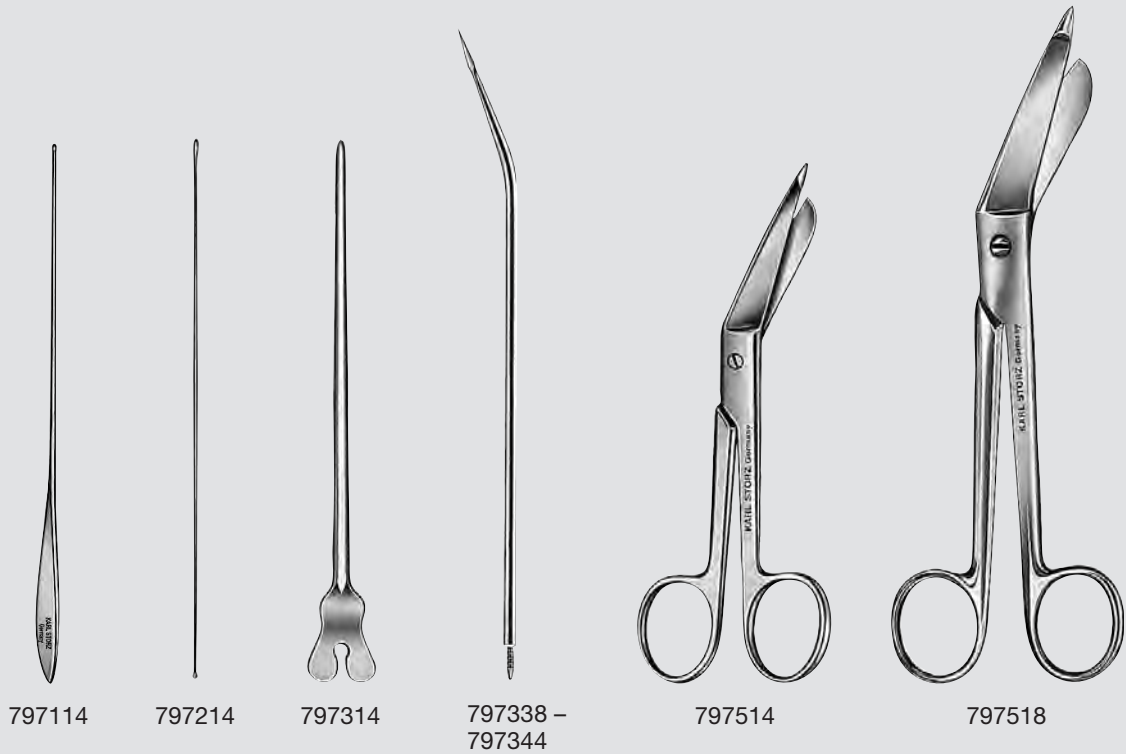
- 801801 **LANGENBECK Retractor**, size 28 x 10 mm, length 21 cm
- 801802 **Same**, size 28 x 14 mm
- 801803 **Same**, size 28 x 16 mm
- 801804 **Same**, size 40 x 14 mm
- 801810 **Same**, size 43 x 13 mm



801901 –
801903



- 801901 **ROUX Retractor**, 19 x 22 mm and 23 x 30 mm, length 14.5 cm
- 801902 **ROUX Retractor**, 25 x 26 mm and 28 x 38 mm, length 15.5 cm
- 801903 **ROUX Retractor**, 28 x 29 mm and 33 x 45 mm, length 16.5 cm



- 797114 **Myrtle Leaf Probe**, diameter 1.5 mm, length 14.5 cm
- 797214 **Bulbous Probe**, diameter 1.5 mm, length 14.5 cm
- 797314 **Grooved Director**, length 14.5 cm
- 797338 **Redon Guide Needle**, angled,
with lancet tip, 8 Fr.
- 797340 **Same**, 10 Fr.
- 797342 **Same**, 12 Fr.
- 797344 **Same**, 14 Fr.
- 797514 **LISTER Bandage Scissors**, length 14 cm
- 797518 **Same**, length 18 cm

Holders for Endoscopes and Suction Tubes

Special Features:

- Resting place during surgical interventions
- In ideal cases allows surgeons independent access to instruments
- For mounting to an instrument table

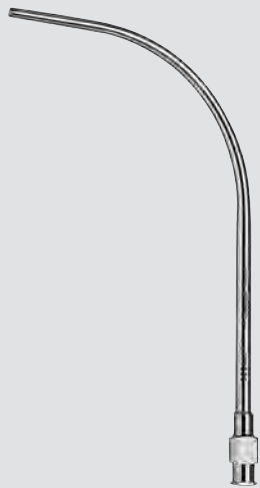


8997 E



8997 K

- 8997 E **Endoscope Holder**, for mounting to the instrument table, for storage of endoscopes up to diameter 5 mm
- 8997 K **Suction Tube Holder**, for mounting to the instrument table, for storage of suction tubes



771506



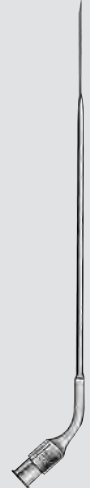
810502



810503



810505



810506



810802



810805



810806

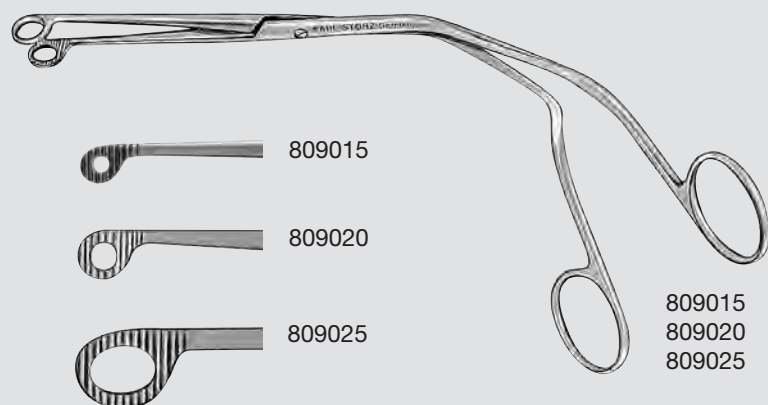


810810
810820
810840



810830

- 771506 **Larynx Cannula**, LUER-Lock, length 13 cm
- 810502 **Needle, Tonsil**, LUER-Lock, straight, long
- 810503 **Same**, 90° forward angle
- 810505 **Needle, Septum**, LUER-Lock, bayonet-shaped
- 810506 **Same**, angular
- 810802 **Cup Medicine**, 25 cm³, diameter 60 mm, height 28 mm
- 810805 **Cup Medicine**, 50 cm³, diameter 57 mm, height 47 mm
- 810806 **Cup Medicine**, 60 cm³, diameter 70 mm, height 33 mm
- 810810 **Cup Medicine**, 100 cm³, diameter 80 mm, height 30 mm
- 810820 **Cup Medicine**, 200 cm³, diameter 100 mm, height 50 mm
- 810830 **Cup Medicine**, 300 cm³, diameter 95 mm, height 65 mm
- 810840 **Cup Medicine**, 400 cm³, diameter 130 mm, height 65 mm



- 809015 **MAGILL Forceps**, for the introduction of endo-tracheal tubes, for infants and small children, length 15 cm
- 809020 **Same**, for children, length 20 cm
- 809025 **Same**, for adults, length 25 cm



810803



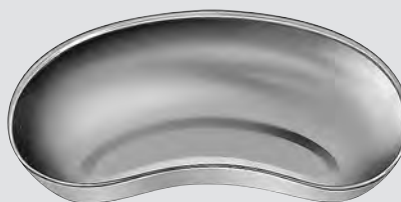
810850



815200 –
815213



815500



820517 –
820527

- 810803 **Cup Medicine**, stainless steel, diameter 65 mm, height 20 mm
- 810850 **Cup Medicine**, with handle, 350 cm³, diameter 70 mm, height 90 mm
- 815200 **Jar**, stainless steel, diameter 5 cm, height 17.5 cm
- 815213 **Same**, height 13 cm
- 815500 **Lamp, Alcohol**, glass, with lateral changing hole, 150 cm³
- 820517 **Kidney-Shaped Dressing Tray**, stainless steel, length 17 cm
- 820525 **Same**, length 25 cm
- 820527 **Same**, length 27.5 cm

Special Features:

- Enables basic ENT examinations and function tests
- All instruments are stored in a special leather pouch



826201

826201 **ENT Diagnosis Set**, for outpatient basic ENT treatments including:

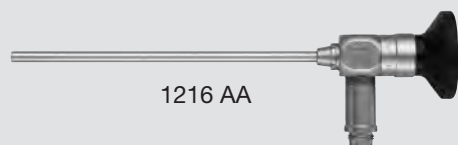
Leather Bag for ENT Diagnosis Set, with divided main compartment and 2 detachable side pockets

Nystagmus Spectacles, small model without illumination

LED Penlight, burning time approx. 50 hours in continuous operation with 2 Micro-AAA batteries (included)

Tuning Fork, A¹-440, with stand, small model

Tongue Depressor, wooden, width 19 mm, length 16 cm, package of 100



1216 AA



11301 D4



121300

1216 AA **HOPKINS® Straight Forward Telescope 0°**, for oto-nasopharyngoscopy, diameter 4 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

11301 D4 **Battery Light Source LED for Endoscopes**, with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**, with 2 Photo Batteries 121306 P

121300 **HEINE Otoscope**, otoscope head with fiber optic light transmission incorporated including:

Ear Specula, outer diameter 2.5 – 5 mm

Battery Handle

2x 1.5 Volt Battery

Spare Lamp

Please note: Image for 826201 also contains optional accessories.

Components/Spare Parts see chapter 16

ENT Trolley for Visits



826101

826101

ENT Trolley for Visits, aluminium case, silver, weight: 5.5 kg, with spacious compartments for documents and notebook, inner dimensions (w x h x d): 420 x 360 x 190 mm

Recommended contents:

| | | | |
|------------|---|------------|---|
| 094120 | LED Headlight , light model, with white light , rechargeable battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance | 403555 | KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 55 mm, length 13.5 cm |
| 122003 | HARTMANN Ear Speculum , standard model, outer diameter 3 mm, length 3.6 cm | 423700 | REUTER Epistaxis Balloon Catheter , sterile |
| 2x 122004 | Same , outer diameter 4 mm | 10x 740000 | BRÜNING'S Tongue Depressor , length 19 cm |
| 3x 122005 | Same , outer diameter 5 mm | 4x 767901 | Laryngeal Mirror , with handle, size 1 |
| 3x 122006 | Same , outer diameter 6 mm | 6x 767906 | Same , size 6 |
| 122007 | Same , outer diameter 7.5 mm | 785005 | BRÜNING'S Life-Saving Tube , outer diameter 5 mm, length 20 cm |
| 150100 | STACKE Ear Probe , silver, length 10.5 cm | 785007 | Same , outer diameter 7 mm |
| 10x 151011 | Cotton Applicator , standard model, triangular serrated, diameter 1.1 mm, working length 13 cm | 791202 | Scissors , curved, sharp/blunt, length 14.5 cm |
| 2x 152301 | Ear Hook , without ball end, size 1, length 15.5 cm | 792402 | Dressing Forceps , medium, length 14.5 cm |
| 2x 152202 | WAGENER Ear Hook , with ball end, size 2, length 15.5 cm | 793402 | Tissue Forceps , 1 x 2 teeth, medium, length 14.5 cm |
| 2x 153001 | WEBER-LOCH Ear Curette , size 1, length 14.5 cm | 15006 B | "ULTRA STOP" Antifog Solution , 25 ml, pipette bottle |
| 2x 153310 | BUCK Ear Curette , blunt, size 0, length 14.5 cm | 1216 AA | HOPKINS® Straight Forward Telescope 0° , for oto-nasopharyngoscopy, diameter 4 mm, length 11 cm, autoclavable , fiber optic light transmission incorporated, color code: green |
| 2x 153301 | Same , size 1 | 11301 D4 | Battery Light Source LED for Endoscopes , with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, suitable for wipe disinfection , with 2 Photo Batteries 121306 P |
| 5x 156000 | LUCAE Ear Forceps , bayonet-shaped, length 14.5 cm | | |
| 162500 | STRÜMPFEL Ear Forceps , working length 8 cm | | |
| 5x 400500 | HARTMANN Nasal Speculum for adults, length 13 cm | | |
| 402000 | HALLE-TIECK Nasal Speculum , for infants, length 13 cm | | |

Accessories for Oto-Rhino-Laryngoscopy

Antifog Solution



15006 B



15006 C



15006 D

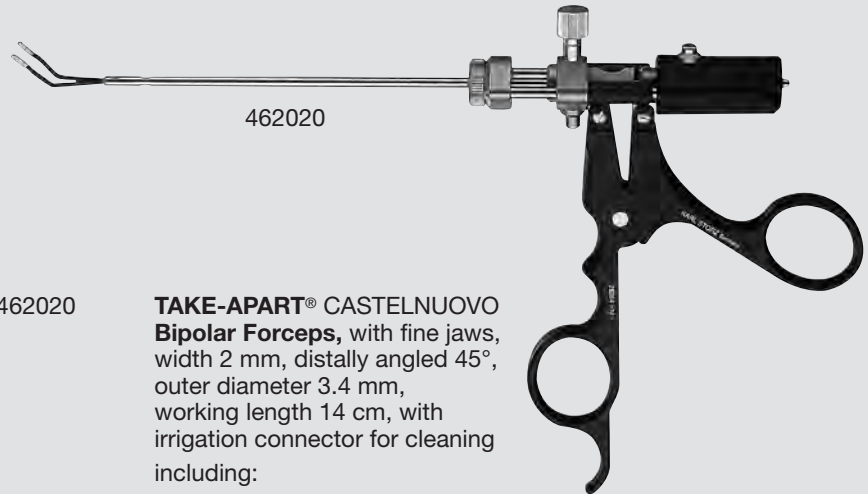
- | | |
|---------|---|
| 15006 B | “ULTRA STOP” Antifog Solution , 25 ml, pipette bottle |
| 15006 C | “ULTRA STOP” Antifog Solution , 30 ml, sterile, pierce bottle |
| 15006 D | “ULTRA STOP” Antifog Solution , 15 ml, atomizer bottle |



**BIPOLAR AND UNIPOLAR
COAGULATION**

TAKE-APART® Bipolar Forceps

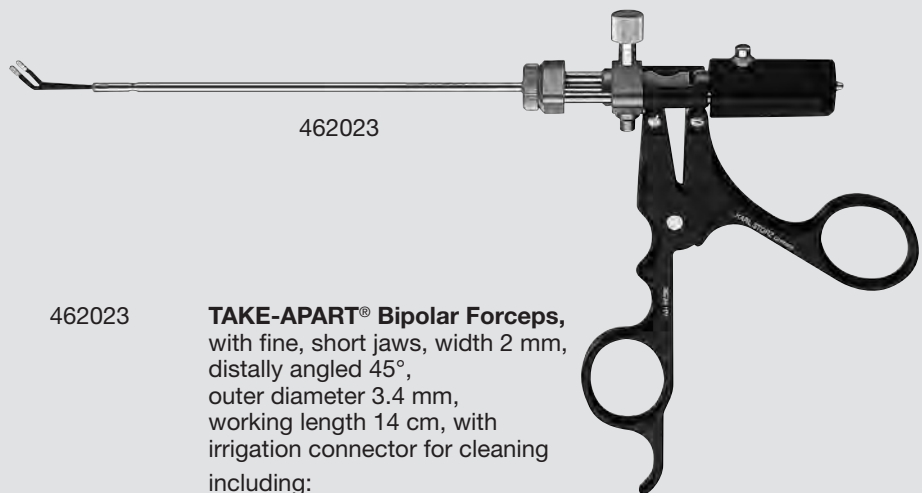
For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV



462020

TAKE-APART® CASTELNUOVO Bipolar Forceps, with fine jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**



462023

TAKE-APART® Bipolar Forceps, with fine, short jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

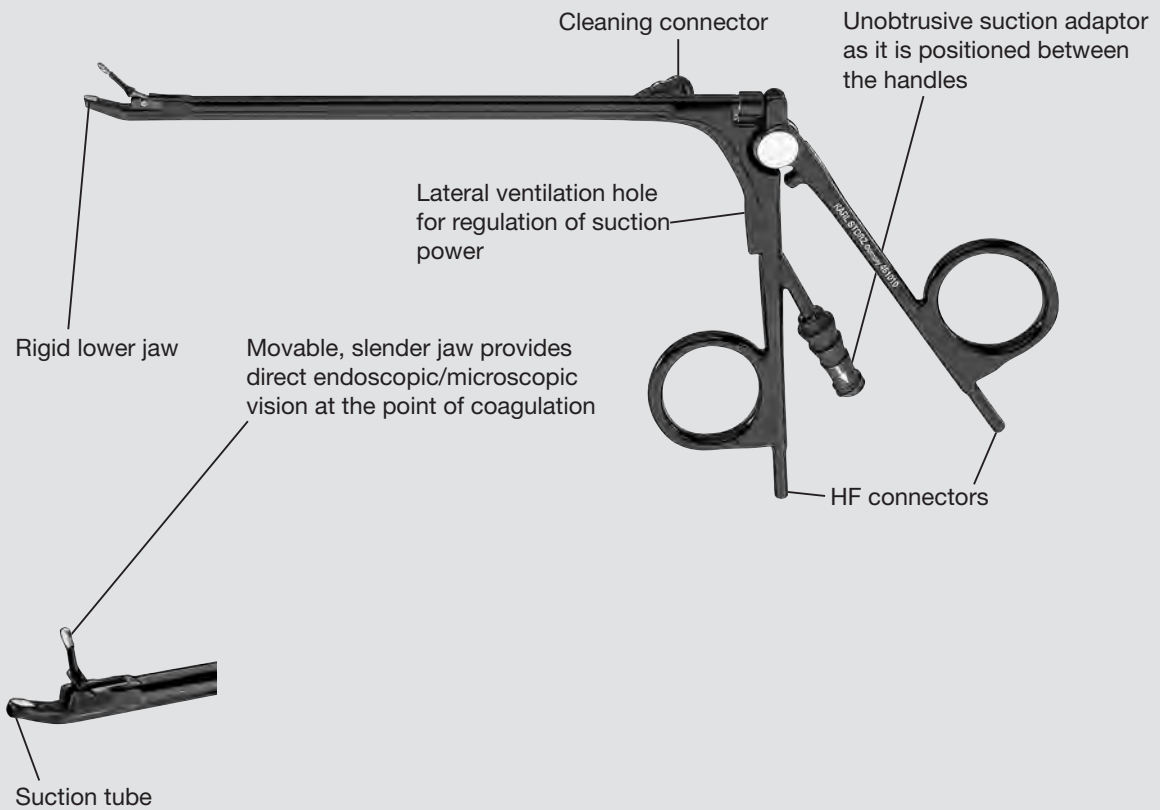
- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**

Components/Spare Parts see chapter 16

STAMMBERGER Bipolar Suction Forceps

Special Features:

- Design similar to standard paranasal grasping forceps
- Integrated suction channel
- Suction power regulation
- Bipolar coagulation
- Insulated except for small coagulation area on the instrument tip
- Single action jaws
- Distance between cautery poles may be varied, enabling punctual and extensive coagulation
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation
- Two instrument heads: angled 15° and 45° to the instrument sheath
- Slim design enables good availability of previously hard to reach regions for cauterization



STAMMBERGER Bipolar Suction Forceps



Indications/Applications:

- Arterial bleeding (ethmoidal, sphenopalatine and maxillary arteries, turbinate and septum vessels)
- Skull base surgery
- Oozing hemorrhage from the mucosa edges
- Vascular processes, i.e. nasopharyngeal fibroma
- Epistaxis
- Secondary hemorrhage, i.e. from adenotomes in the nasopharynx
- Edema prevention, shrinkage of mucosa (for example, posterior end of the turbinate)
- Turbinate cauterization



461010



461010

STAMMBERGER **Bipolar Suction Forceps**, 15° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



461015



461015

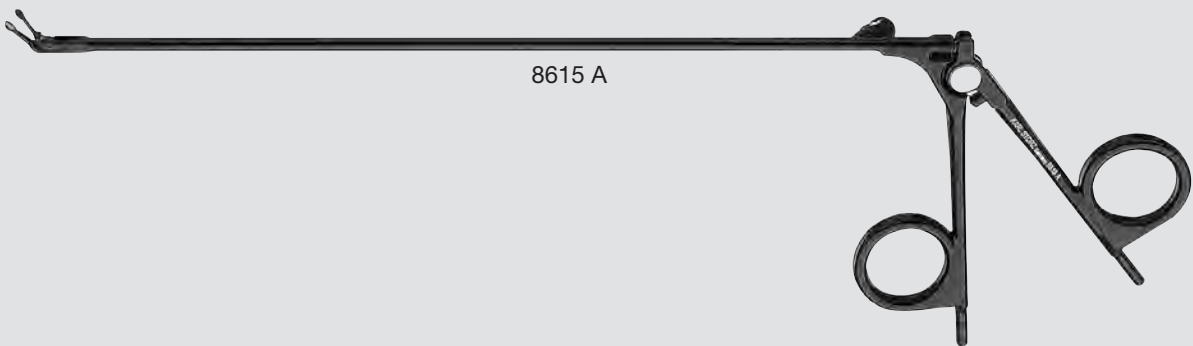
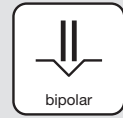
STAMMBERGER **Bipolar Suction Forceps**, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

Bipolar High Frequency Cords see pages 426-428

Bipolar Forceps

Special Features:

- Bipolar coagulation
 - Insulated except for small coagulation area on the instrument tip
 - Single action jaws
 - Distance between cautery poles may be varied
 - With and without suction
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation
 - Slim design enables good availability of previously hard to reach regions for cauterization

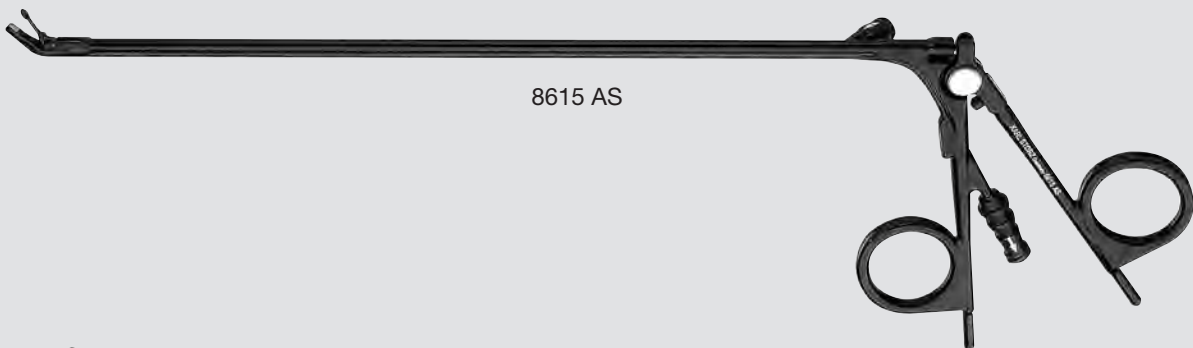


8615 A



8615 A

Bipolar Forceps, jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



8615 AS



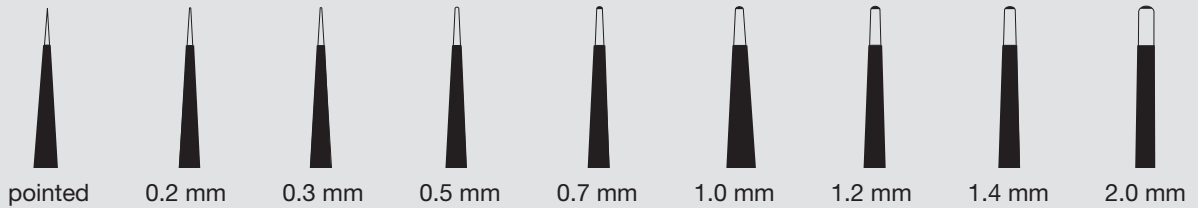
8615 AS

Bipolar Suction Forceps, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

Bipolar High Frequency Cords see pages 426-428

Bipolar Coagulation Forceps

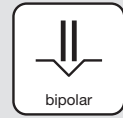
Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V




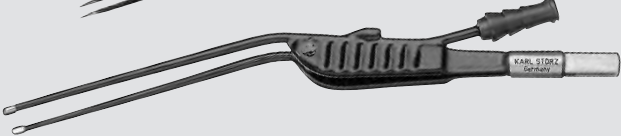









| | | |
|---|----------|---|
|  | 841116 | Bipolar Coagulation Forceps, insulated, straight, pointed, length 16 cm |
|  | 841216 | Same, blunt, tip 1 mm, length 16 cm |
|  | 841216 G | Same, blunt, with silver tip, tip 1 mm |
|  | 841219 | Same, blunt, tip 1 mm, length 19 cm |
|  | 841219 G | Same, blunt, with silver tip, tip 1 mm, length 19 cm |
|  | 842016 | Bipolar Coagulation Forceps, insulated, angled tip, very delicate, tip 0.5 mm, length 16 cm |
|  | 842116 | Bipolar Coagulation Forceps, insulated, angled tip, tip 0.5 mm, length 16 cm |
|  | 842216 | Bipolar Coagulation Forceps, insulated, angled tip, blunt, tip 1 mm, length 16 cm |
|  | 842216 G | Same, with silver tip |
|  | 842219 | Same, blunt, tip 2 mm, length 19 cm |
|  | 842219 G | Same, blunt, with silver tip, tip 2 mm, length 19 cm |
|  | 842319 | Same, length 19 cm |
|  | 842319 G | Same, with silver tip, length 19 cm |

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



- | | | |
|---|----------|---|
|  | 843016 | Bipolar Coagulation Forceps, insulated, angular, very delicate, tip 0.2 mm, length 16 cm |
|  | 843016 F | Same, grip insulated, front part not insulated, pointed |
|  | 843116 | Bipolar Coagulation Forceps, insulated, angular, pointed, length 16 cm |
|  | 843219 | Bipolar Coagulation Forceps, insulated, angular, blunt, with integrated suction channel for epistaxis, with cut-off hole, length 19 cm |
|  | 844116 | Bipolar Coagulation Forceps, insulated, bayonet-shaped, pointed, length 16 cm |
|  | 844216 | Same, blunt, tip 1 mm |
|  | 844216 G | Same, blunt, with silver tip, tip 1 mm |
|  | 844119 | Same, blunt, tip 2 mm, length 19 cm |
|  | 844219 | Same, blunt, tip 1 mm, length 19 cm |
|  | 844219 G | Same, blunt, with silver tip, tip 1 mm, length 19 cm |
|  | 844319 | Same, slender, tip 0.5 mm, length 19 cm |

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



844320

Bipolar Coagulation Forceps, insulated, bayonet-shaped, blunt, with integrated suction channel and cut-off hole, tip 1.4 mm, length 20 cm



844321

Same, tip 2 mm, length 20 cm



844421

Bipolar Coagulation Forceps, insulated, bayonet-shaped, tip 0.3 mm, length 21 cm



844423

Same, length 23 cm



844521

Same, blunt, tip 0.7 mm, length 21 cm



844523

Same, tip 0.7 mm, length 23 cm



844621

Same, blunt, tip 1 mm, length 21 cm



844623

Same, blunt, tip 1.2 mm, length 23 cm



844721

Same, blunt, tip 2 mm, length 21 cm



845219

Bipolar Coagulation Forceps, insulated, angled tip, bayonet-shaped, blunt, tip 2 mm, length 19 cm

845219 G

Same, with silver tip

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



845518

Bipolar Coagulation Forceps, insulated, for nasopharynx, tip curved 60°, blunt, tip 2 mm, length 18 cm



845721

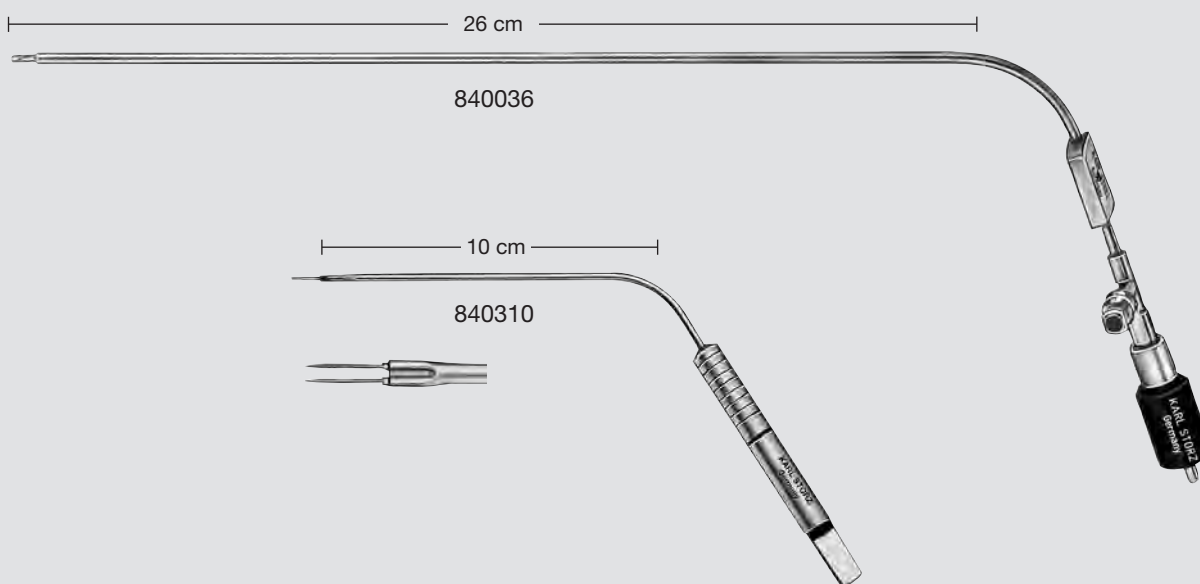
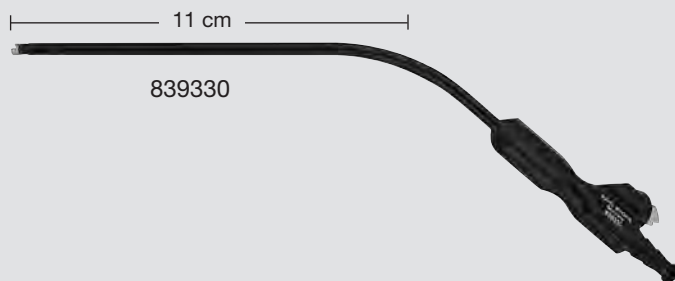
Bipolar Coagulation Forceps, insulated, for nasopharynx and adenoidectomy, tip with long 90° curve, with integrated suction channel, with cut-off hole, length 21 cm



845821

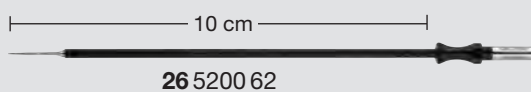
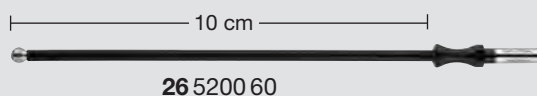
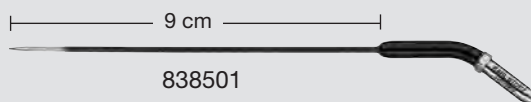
Bipolar Coagulation Forceps, insulated, for oral cavity and tonsillectomy, tip with short 45° curve, with integrated suction channel, with cut-off hole, length 21 cm

Bipolar Coagulation



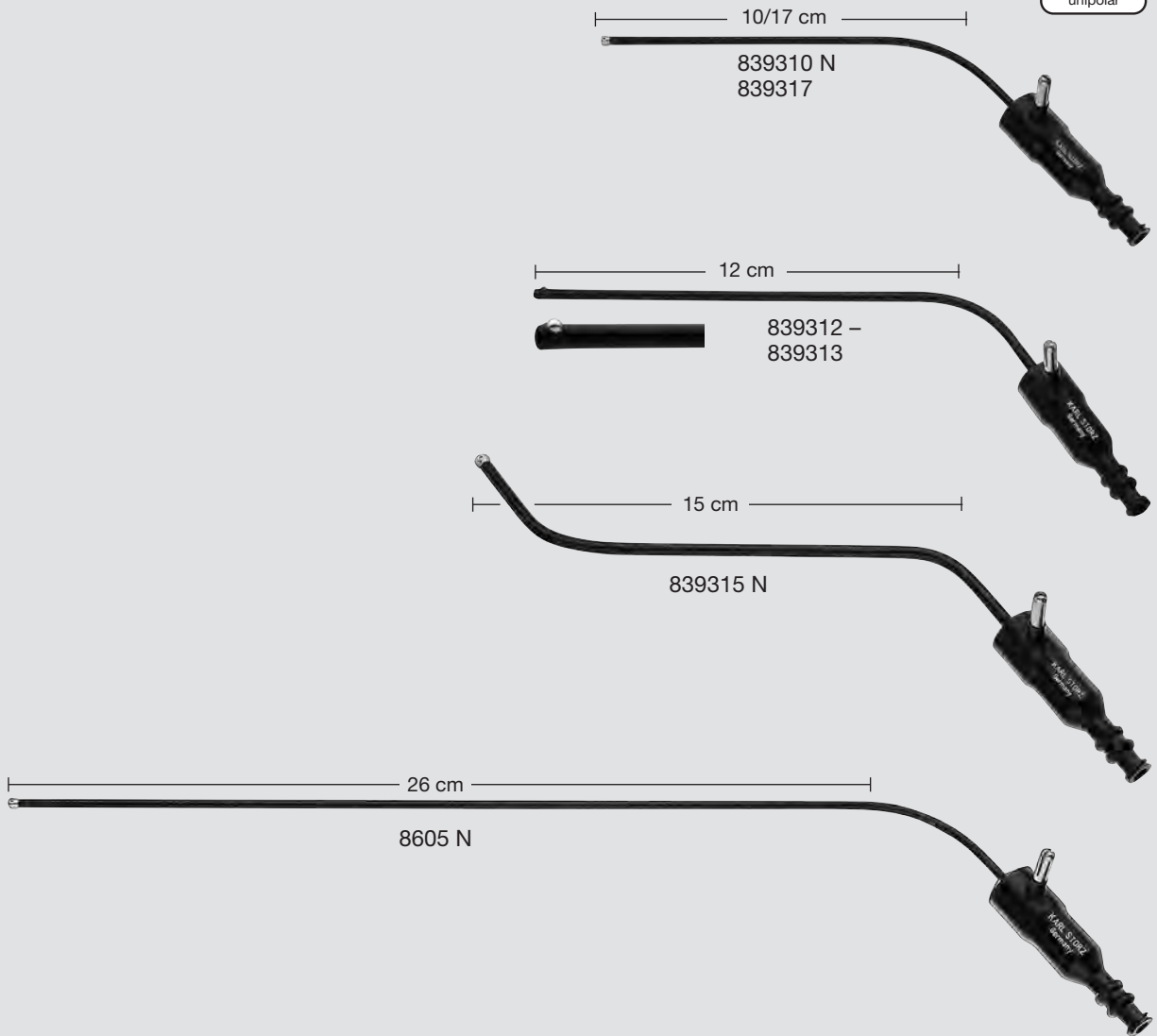
- NEW** 839330 **BRINER Bipolar Suction Cannula**, angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm, working length 11 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
- 840036 **Bipolar Coagulation Electrode**, straight, with suction channel, for laryngoscopy, working length 26 cm, for use with Bipolar High Frequency Cords 26176 LE or 26176 L – 26176 LV
- 840310 **Bipolar Needle**, for submucosa coagulation of the inferior turbinate, pointed, angular, working length 10 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V

Unipolar Coagulation



- 838501 **Needle Electrode**, for sub mucosa diathermy of the inferior turbinate, working length 9 cm
- 838503 **Ball Electrode**, for epistaxis, working length 9 cm
- 26 5200 60 **Ball Electrode**, straight, diameter 4 mm, working length 10 cm
- 26 5200 62 **Needle Electrode**, straight, working length 10 cm
- 26 5200 46 **Electrode Handle**, without buttons, with integrated connecting cable, length 300 cm

Unipolar Coagulation



- 839310 N **Suction Cannula**, for nose, straight, outer diameter 3 mm, working length 10 cm
- 839312 **SIMMEN Suction Cannula**, for nose and epistaxis, angular, insulated, malleable, distal with not insulated horn, outer diameter 3.5 mm, working length 12 cm, for use with Unipolar High Frequency Cords 26005 M/MW, 26004 M/MW, 26002 M, 26006 M
- 839312 A **Same**, outer diameter 4 mm
- 839313 **Same**, outer diameter 4.5 mm
- 839315 N **Suction Cannula**, for nasopharynx, curved upwards, malleable, outer diameter 4 mm, working length 15 cm
- 839317 **Coagulation Suction Tube**, angular, outer diameter 3 mm, working length 17 cm
- 8605 N **KLEINSASSER Suction and Coagulation Cannula**, outer diameter 3 mm, working length 26 cm

8-11



■ HIGH FREQUENCY SURGERY UNITS

AUTOCON® II 400 SCB

AUTOCON® 200

AUTOCON® 50

AUTOCON® II 400 SCB, AUTOCON® 200/50

Special Features

| Special Features: | AUTOCON® II 400 SCB | AUTOCON® 200 | AUTOCON® 50 |
|---|---------------------|--------------|-------------|
| Degree of coagulation (effect) can be preselected in several steps: The degree of coagulation measures extent of coagulation depth | ● | ● | ● |
| Soft coagulation and/or standard coagulation: coagulation with unmodulated HF voltage ($U_p < 200$ V) | ● | ● | ● |
| Forced coagulation: coagulation with modulated HF voltage ($U_p > 500$ V); to reach deeper coagulation zones, electric arcs are generated between the active coagulation electrode and the tissue. Damage to deeper layers of tissue has to be accepted. | ● | ● | ● |
| Autostart function: manual adjustment of operating time limit for bipolar coagulation | ● | - | - |
| Voltage-regulated cutting | ● | ● | ● |
| Service port for software updates and HF functionality upgrades | ● | - | - |
| Separate papillo-cut and gastro-cut functions enable fractionated cutting with regulated HF current at different cutting speeds for flexible endoscopy | ● | - | - |
| Autostart function for bipolar coagulation: Automatic activation of coagulation current as soon as coagulation electrode touches tissue with both branches | ● | ● | - |
| Activation of HF functions possible via footswitch or manual control switch | ● | ● | ● |
| Bipolar resection with KARL STORZ bipolar electrotomes | ● | - | - |
| Bipolar application with NaCl irrigation solution | ● | - | - |
| Connecting sockets for unipolar and bipolar applications can be selected according to individual requirements | ● | - | - |
| 100 applications with text can be stored | ● | - | - |
| Convenient use via 6.5" Touch Screen | ● | - | - |
| Switchover function enables switching between two modes within a user program via a footswitch from the sterile area | ● | - | - |
| Compatible with KARL STORZ Communication Bus (KARL STORZ-SCB) | ● | - | - |
| Interdisciplinary use | ● | - | - |
| Spray coagulation: Coagulation with modulated HF voltage ($U_p > 500$ V); very long arcs enable coagulation of large and bleeding areas of tissue without contact to tissue | ● | - | - |
| Arc-controlled cutting, unipolar | ● | - | - |

AUTOCON® II 400 SCB

Specifications

| HF-Modes | Effects | P max. at 500 Ohm | V _p max. at 500 Ohm | Crest-Factor | Arc Control | Voltage Control |
|-----------------|---------|----------------------|-----------------------------------|--------------|-------------|--------------------|
| Unipolar | | | | | | |
| TOP-Cut | 8 | 300 | 950 | 1.4 | ● | – |
| POWER-Cut | 8 | 300 | 740 | 1.4 | – | ● |
| C-Cut | 8 | 200 | 1450 | 3.0 | – | ● |
| LAP-C-Cut | 8 | 200 | 1450 | 3.0 – 3.8 | – | ● |
| Gastro-Cut | 4 | 200 | 880 | 1.4 | – | ● |
| Papillo-Cut | 4 | 200 | 880 | 1.4 | – | ● |
| Standard Coag | 8 | 200 (at 50 Ohm) | 190 | 1.4 | – | ● |
| Forced Coag | 4 | 120 | 1800 | 6.0 | – | ● |
| Spray Coag | 2 | 120 | 4300 | 7.4 | – | ● |

Bipolar

| | | | | | | |
|--------------------------------|----------------------|--------------------|-----|-----|---|---|
| Bipolar-Cut | 8 | 100 | 740 | 1.4 | – | ● |
| Saline-C-Cut | 8 | 370 | 770 | 1.4 | – | ● |
| Saline-Time-C-Cut | 8 time 0.1-1 sec. | 370 | 770 | 1.4 | – | ● |
| Saline Coag | 8 | 200 (at 50 Ohm) | 190 | 1.4 | – | ● |
| Saline-Time-Coag | 8 time 0.1-1 sec. | 200 (at 50 Ohm) | 190 | 1.4 | – | ● |
| Bipolar Soft Coag | 8 | 120 (at 75 Ohm) | 190 | 1.4 | – | ● |
| Bipolar Soft with Auto-Stop | 8 | 120 (at 75 Ohm) | 190 | 1.4 | – | ● |
| Bi-Vascular-Safe | 8 | 120 (at 75 Ohm) | 190 | 1.4 | – | ● |

Specifications:





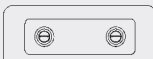
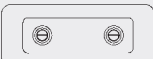

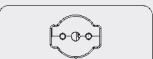



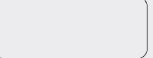
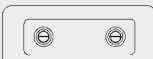
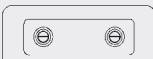

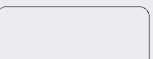







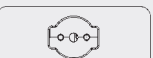
| | | | |
|----------------|---|----------------------|--|
| Safety Systems | <ul style="list-style-type: none"> - Automatic Self-Test - Maldosage - Neutral Electrode Safety System (dynamic, two-part, one- and two-part NE) - LF/HF Leakage Current Monitor - Activation Time - Deactivable HF | Power Supply | 20 5352 20-11x: 230 VAC, 50/60 Hz 20 5352 20U11x: 115 VAC, 50/60 Hz |
| | | Dimensions w x h x d | 448 x 164 x 345 mm |
| | | Weight | 10 kg |
| | | Certified to | IEC 601-1, CE acc. to MDD |

AUTOCON® II SCB 400

High Frequency Surgery Unit,
Recommended System Configurations



AUTOCON® II 400 SCB,
power supply 220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm

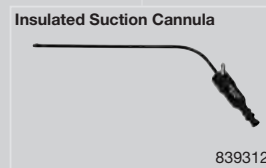
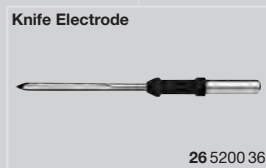
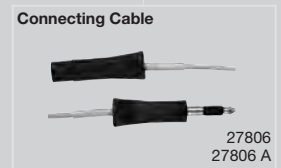
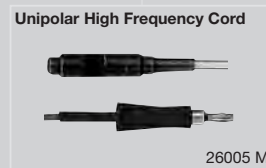
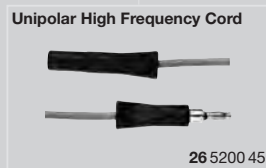
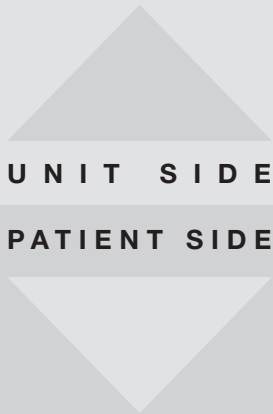
| AUTOCON® II 400 SCB, Set | AUTOCON® II 400 SCB | Socket Position | | | |
|-----------------------------|------------------------|--|---|---|---|
| | | 1 | 2 | 3 | 4 |
| Standard | | | | | |
| 20 5352 01-111 | 20 5352 20-111 | Bipolar  | Bipolar  | Unipolar 3-pin and Erbe  | Neutral Electr. 6.3 mm jack  |
| 20 5352 01-112 | 20 5352 20-112 | Bipolar US-2-pin  | Bipolar US-2-pin  | Unipolar 3-pin and Bovie  | Neutral Electr. 2-pin  |
| Bipolar | | | | | |
| 20 5352 01-113 | 20 5352 20-113 | Bipolar  | Bipolar  | Bipolar Multifunction  | Blind Socket  |
| 20 5352 01-114 | 20 5352 20-114 | Bipolar US-2-pin  | Bipolar US-2-pin  | Bipolar Multifunction  | Blind Socket  |
| High-End | | | | | |
| 20 5352 01-115 | 20 5352 20-115 | Bipolar  | Bipolar Multifunction  | Unipolar 3-pin and Erbe  | Neutral Electr. 6.3 mm jack  |
| 20 5352 01-116 | 20 5352 20-116 | Bipolar US-2-pin  | Bipolar Multifunction  | Unipolar 3-pin and Bovie  | Neutral Electr. 2-pin  |

Optional Accessories for AUTOCON® II 400 SCB see page 424

Components/Spare Parts see chapter 16

AUTOCON® II 400 SCB

System Components



AUTOCON® 200

High Frequency Surgery Unit,
Recommended System Configurations



20 5225 01 **AUTOCON® 200**, power supply
200 – 240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

20 5225 01-010 **AUTOCON® 200**,
with ENDOCUT function,
power supply 200 – 240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

20 5225 01 C **AUTOCON® 200**, power supply
100 – 120 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

20 5225 01 C 010 **AUTOCON® 200**,
with ENDOCUT function,
power supply 100 – 120 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

Specifications:

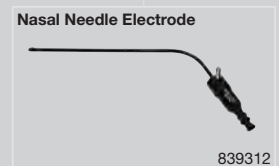
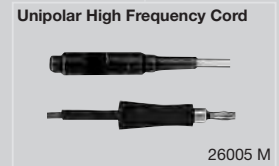
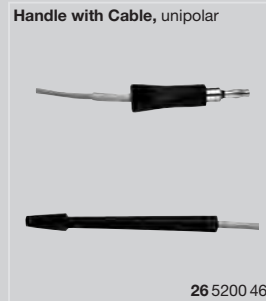
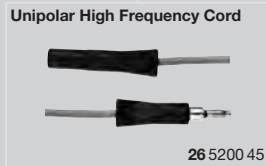
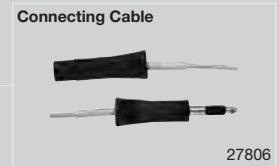
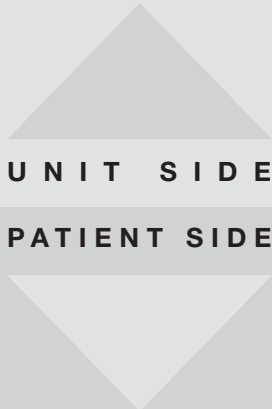
| | |
|----------------|--|
| HF Rated Power | <ul style="list-style-type: none"> - Cutting unipolar: 200 Watt/500 Ohm - Coagulation unipolar soft: 120 Watt/125 Ohm unipolar standard: 120 Watt/350 Ohm bipolar: 120 Watt/125 Ohm |
| Max. Voltage | <ul style="list-style-type: none"> - Cutting unipolar: Vp=600 Volt - Coagulation unipolar soft: Vp=190 Volt unipolar standard: Vp=1300 Volt bipolar: Vp=190 Volt |
| Output Control | <ul style="list-style-type: none"> - Cutting unipolar: automatic voltage control - Coagulation unipolar soft: automatic voltage control unipolar standard: pulse modulation bipolar: automatic voltage control |

| | |
|-----------------------|---|
| Degree of Coagulation | Cutting 4 steps |
| Autostart | Coagulation bipolar |
| Autostop | Coagulation unipolar soft |
| Safety Systems | <ul style="list-style-type: none"> - permanent power control - maldosage - neutral electrode, safety system - automatic self-test |
| Power Supply | 100-120 VAC or 200-240 VAC, 50/60 Hz |
| Dimensions w x h x d | 305 x 164 x 345 mm |
| Weight | 7.7 kg |
| Certified to | IEC 601-1, CE acc. to MDD |

Optional Accessories for AUTOCON® 200 see page 424

Components/Spare Parts see chapter 16

AUTOCON® 200
System Components



11-051

AUTOCON® 50

High Frequency Surgery Unit,
Recommended System Configuration



20 5205 01 **AUTOCON® 50**, power supply 100/120/230/240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output, diameter 4/5 mm

Specifications:

| | | | |
|----------------|--|-----------------------|--|
| HF Rated Power | <ul style="list-style-type: none"> - Cutting unipolar: 50 Watt/500 Ohm - Coagulation unipolar soft: 50 Watt/200 Ohm unipolar standard: 50 Watt/500 Ohm bipolar: 50 Watt/200 Ohm | Degree of Coagulation | Cutting 2 steps |
| Max. Voltage | <ul style="list-style-type: none"> - Cutting unipolar: Vp=600 Volt - Coagulation unipolar soft: Vp=190 Volt unipolar standard: Vp=900 Volt bipolar: Vp=190 Volt | Autostop | Coagulation unipolar soft |
| Output Control | <ul style="list-style-type: none"> - Cutting unipolar: automatic voltage control - Coagulation unipolar soft: automatic voltage control unipolar standard: pulse modulation bipolar: automatic voltage control | Safety Systems | <ul style="list-style-type: none"> - maldosage - neutral electrode, safety system - automatic self-test |
| | | Power Supply | 100/120/230/240 VAC, 50/60 Hz |
| | | Dimensions w x h x d | 305 x 110 x 260 mm |
| | | Weight | 4.6 kg |
| | | Certified to | IEC 601-1, CE acc. to MDD |

Optional Accessories for AUTOCON® 50 see page 424

Components/Spare Parts see chapter 16

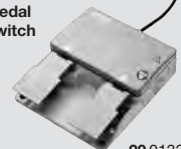
AUTOCON® 50
System Components

One-Pedal Footswitch



20013130

Two-Pedal Footswitch



20013330

UNIT SIDE

PATIENT SIDE



Connecting Cable



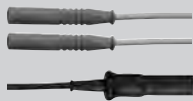
27806

Neutral Electrode



860021 E

Bipolar High Frequency Cord



847002 E

Bipolar High Frequency Cord



847000 E

Handle with Cable, unipolar



26 5200 46

Unipolar High Frequency Cord



26005 M

Bipolar Suction Forceps



461010

Bipolar Coagulating Forceps



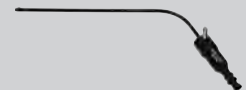
841116

Knife Electrode



26 5200 36

Nasal Needle Electrode



839312

11-05

Optional Accessories

for AUTOCON® II 400 SCB and AUTOCON® 200/50

| | | | for use with | | |
|---|----------|--|------------------------|--------------|-------------|
| | | | AUTOCON® II 400 SCB | AUTOCON® 200 | AUTOCON® 50 |
|  | 20017831 | Three-Pedal Footswitch , with switch function for switching between mode levels A and B, for use with AUTOCON® II 400 SCB | ● | - | - |
|  | 20017830 | Two-Pedal Footswitch , for use with AUTOCON® II 400 SCB and AUTOCON® II 200 | ● | - | - |
|  | 20017832 | One-Pedal Footswitch , for activating coagulation, for use with AUTOCON® II 400 SCB and AUTOCON® II 200 | ● | - | - |
|  | 20013330 | Two-Pedal Footswitch , for controlling the coagulation and cutting function | - | ● | ● |
|  | 20013130 | One-Pedal Footswitch , for controlling the coagulation function | - | ● | ● |
|  | 27805 | Neutral Electrode , of conductive silicone with 2 rubber ties for fastening, contact surface A = 500 cm ² , for use with Connecting Cable 27806 | ● | ● | ● |
|  | 860021 E | Neutral Electrode , of conductive silicone, with 1 rubber tie for fastening, contact surface A = 187 cm ² , for use with Connecting Cable 27806 | - | ● | ● |
|  | 27806 | Neutral Electrode Connecting Cable , for Neutral Electrodes 27805 and 860021 E, length 400 cm | -111 -115 | ● | ● |
|  | 27806 UR | Neutral Electrode Connecting Cable , for Neutral Electrode 27805 | -112 -116 | - | - |
|  | 27806 US | Neutral Electrode Connecting Cable , for Neutral Electrode 27802 | -112 -116 | - | - |
|  | 27802 | Neutral Electrode , for single use, contact surface divided into two, A = 169 cm ² , package of 50, Connecting Cable 27801 required | ● | ● | ● |
|  | 27801 | Connecting Cable , for connecting Neutral Electrode 27802, length 500 cm | -111 -115 | ● | ● |
|  | 26520043 | Electrode Handle , with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Cable 26520045 required) | ● | ● | ● |
|  | 26520045 | High Frequency Cable , for Electrode Handle 26520043, length 400 cm | -111 -115 | ● | ● |
|  | 26520046 | Electrode Handle , without buttons, with integrated connecting cable, length 300 cm | -111 -115 | ● | ● |

Surgery Set

Accessories



20 5300 08

Surgery Electrodes Set
including:

**Container with Lid and
Sterilization Insert, for
16 electrodes with diameter 4 mm**



Wire Snare, 5 mm



Same, 10 mm



Ribbon Snare, 10 mm



**KIRSCHNER Spatula Electrode,
straight**



**MAGENAU Knife Electrode,
angled downwards**



Same, lancet-shaped



Ball Electrode, 2 mm



Same, 4 mm



Same, 6 mm



Needle Electrode



Flat Electrode, 8 x 10 mm



Same, 10 x 15 mm

6-95z

For use with Electrode Handles 26 5200 43 and 26 5200 46
Components/Spare Parts see chapter 16




Accessories

Unipolar and Bipolar High Frequency Cords

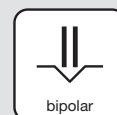
Unipolar High Frequency Cords








KARL STORZ High Frequency
Instrument Surgery Unit

| | | |
|---|---------|--|
|  | 26002 M | Unipolar High Frequency Cord , with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm |
|  | 26004 M | Unipolar High Frequency Cord , with 4 mm plug for models Berchtold and Martin, length 300 cm |
|  | 26005 M | Unipolar High Frequency Cord , with 5 mm plug, length 300 cm, for AUTOCON® II 400 SCB system (111, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ AUTOCON® system (50, 200, 350) and Erbe type ICC |
|  | 26006 M | Unipolar High Frequency Cord , with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm |

Bipolar High Frequency Cords



KARL STORZ High Frequency
Instrument Surgery Unit

| | | |
|---|----------|---|
|  | 26176 LE | Bipolar High Frequency Cord , for AUTOCON® II 400 SCB system (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm |
|  | 26176 LM | Bipolar High Frequency Cord , for Martin and Berchtold coagulators, length 300 cm |
|  | 26176 L | Bipolar High Frequency Cord , with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm |
|  | 26176 LA | Bipolar High Frequency Cord , with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm |
|  | 26176 LV | Bipolar High Frequency Cord , for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm |

Please note: All high frequency cords of this page are delivered with a length of 300 cm. If a length of 500 cm is requested please add letter **L** to the part number, e. g. 26002 **ML**, 26176 **LVL**.






Accessories

High Frequency Cords
for use with Bipolar Coagulation Instruments

Bipolar High Frequency Cords

KARL STORZ Instrument High Frequency Surgery Unit



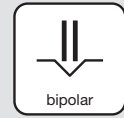
| | |
|---|---|
|  | <p>847000 E Bipolar High Frequency Cord, length 300 cm, for AUTOCON® II 400 SCB systems (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® systems (50, 200, 350), Erbe-Coagulator, T and ICC series and KARL STORZ bipolar coagulation forceps</p> |
|  | <p>847000 Bipolar High Frequency Cord, with 2x 4 mm banana plug to KARL STORZ Coagulator 26020 XA/XB for KARL STORZ bipolar coagulation forceps, length 300 cm</p> |
|  | <p>847000 A Bipolar High Frequency Cord, length 300 cm, for KARL STORZ Coagulator 260020 XA/XB, Bircher, Bovie, Keymend, Mallis, Valleylab, Neomed, Bard and KARL STORZ bipolar coagulation forceps</p> |
|  | <p>847000 M Bipolar High Frequency Cord, length 300 cm, for KARL STORZ AUTOCON® systems (50, 200, 400), for Martin and Berchtold coagulators, Aesculap coagulator (latest version) and KARL STORZ bipolar coagulation forceps</p> |
|  | <p>847000 V Bipolar High Frequency Cord, length 300 cm, for KARL STORZ AUTOCON® II 400 SCB systems (112, 114, 116, 122, 125), Valleylab coagulators and KARL STORZ bipolar coagulation forceps</p> |

Please note:

All high frequency cords on this page are delivered with a length of 300 cm only.





Accessories

High Frequency Cords
for use with Bipolar Forceps




Bipolar High Frequency Cords

KARL STORZ Instrument High Frequency Surgery Unit

| | |
|---|--|
|  | <p>847002 E Bipolar High Frequency Cord, for KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), AUTOCON® II 400 SCB system (111, 113, 115) and Erbe coagulator, T and ICC series, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p> |
|  | <p>847002 M Bipolar High Frequency Cord, for Martin and Berchtold coagulator, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p> |
|  | <p>847002 A Bipolar High Frequency Cord, with 2x 4 mm banana plug for KARL STORZ coagulator 26020 XA/XB, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p> |
|  | <p>847002 V Bipolar High Frequency Cord, for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116), Valleylab coagulator, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p> |

KARL STORZ Instrument Standard Forceps Bipolar Cords

| | |
|---|---|
|  | <p>847002 U Bipolar Universal High Frequency Cord, one side with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, other side with standard pin for connection to all current forceps bipolar cords, length 40 cm</p> |
|---|---|

for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V see page 427

High Frequency Surgery Units see pages 415-424



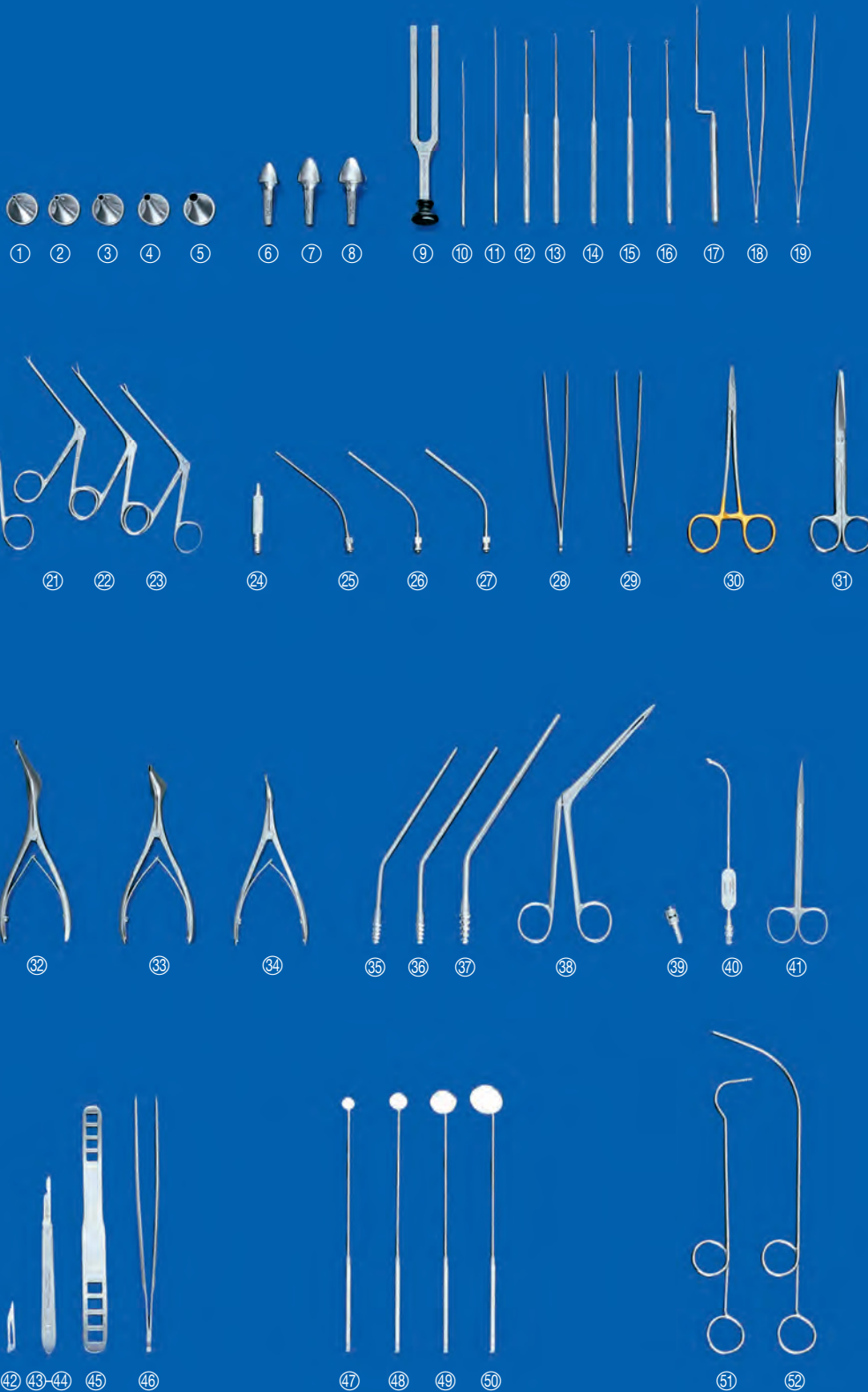
RECOMMENDED SETS FOR ENT

ENT Basic Set I, Endoscopes and Illumination



- ① 310010 **Headlight**, light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source
including:
Headband
Clip with Band
- ② 1215 AA **Tele-Otoscope with HOPKINS® Straight Forward Telescope 0°**, diameter 4 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ③ 7230 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- ④ 8707 DA **Tele-Laryngo-Pharyngoscope**, with integrated HOPKINS® lateral telescope 90°, 4x magnification focusing device, diameter 10 mm, length 15 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue
- ⑤ 11101 CMM **CMOS Video-Rhino-Laryngoscope with Monitor**,
Direction of view: 0°
Angle of view: 85°
Working length: 30 cm
Outer diameter: 3.7 mm
Deflection up/down: 140°/140°
Following accessories included:
11101 CMK **CMOS Video Rhino-Laryngoscope KIT**
8402 ZX **Monitor for CMOS Endoscopes**
- ⑥ 495 NL **Fiber Optic Light Cable**, diameter 3.5 mm, length 180 cm
- ⑦ 202901 32 **C-CAM® Camera Head, 8-pin**, one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, compatible with 8402 ZX
- ⑧ 202901 01 **C-HUB® Camera Control Unit**, for use with C-CAM® 202901 32, Electronic Module 8402 X or compatible CMOS video endoscopes, Interfaces: USB 2.0, S-Video output (NTSC), power socket
including:
C-HUB® Power Supply
S-Video (Y/C) Connecting Cable
USB Connecting Cable
- ⑨ 201611 01 **Cold Light Fountain LED NOVA 100 twin**, with two LED lamps and two light outlets, power supply 110 – 240 VAC, 50/60 Hz
including:
Mains Cord

ENT Basic Set II, Instrument Set



ENT Basic Set II, Instrument Set

| | | | |
|---|-----|--------|---|
| ① | 2x | 122003 | HARTMANN Ear Specula , outer diameter 3 mm |
| ② | 5x | 122004 | Same , outer diameter 4 mm |
| ③ | 10x | 122005 | Same , outer diameter 5 mm |
| ④ | 10x | 122006 | Same , outer diameter 6 mm |
| ⑤ | 2x | 122007 | Same , outer diameter 7.5 mm |
| ⑥ | | 142418 | Nasal Tip , metal, size 18 mm |
| ⑦ | | 142420 | Same , size 20 mm |
| ⑧ | | 142422 | Same , size 22 mm |
| | | 142000 | POLITZER Air Bag (not illustrated) |
| ⑨ | | 126000 | Tuning Fork , A ¹ -440 with stand |
| ⑩ | 10x | 151011 | Cotton Applicators , diameter 1.1 mm, working length 13 cm |
| ⑪ | 5x | 417013 | Same , diameter 1.3 mm, length 15 cm |
| ⑫ | | 152600 | ZAUFAL Curved Spatula , length 14.5 cm |
| ⑬ | 5x | 152301 | Ear Hooks , without ball end, size 1, length 15.5 cm |
| ⑭ | 2x | 152202 | WAGENER Ear Hooks , with ball end, size 2, length 15.5 cm |
| ⑮ | 2x | 153310 | BUCK Ear Curettes , blunt, size 0, length 14.5 cm |
| ⑯ | 2x | 153301 | Same , size 1 |
| ⑰ | | 155200 | Ear Knife , screw handle, bayonet-shaped, working length 8 cm |
| ⑱ | 10x | 156000 | LUCAE Ear Forceps , length 14.5 cm |
| ⑲ | 5x | 426516 | JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm |
| ⑳ | | 158800 | HARTMANN Ear Dressing Forceps , extra delicate, working length 6 cm |
| ㉑ | | 221100 | HARTMANN Ear Forceps , extra delicate, serrated, working length 8 cm |
| ㉒ | | 161000 | HARTMANN Ear Forceps , serrated, working length 8 cm |
| ㉓ | | 162500 | STRÜMPEL Ear Forceps , working length 8 cm |
| ㉔ | 2x | 204200 | FISCH Adaptors , for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER-cone, length 5.5 cm |
| ㉕ | 3x | 204315 | Suction Tubes , straight, LUER-Lock, flexible, outer diameter 1.5 mm, length 10 cm |
| ㉖ | 6x | 204320 | Same , outer diameter 2 mm |
| ㉗ | 3x | 204325 | Same , outer diameter 2.5 mm |
| ㉘ | | 792401 | Dressing Forceps , length 14.5 cm |
| ㉙ | | 793401 | Tissue Forceps , 1 x 2 teeth, standard width, length 14.5 cm |
| ㉚ | | 516015 | Needle Holder , tungsten carbide inserts, length 15 cm |
| ㉛ | | 790802 | Scissors , straight, sharp/blunt, length 14.5 cm |
| ㉜ | | 403575 | KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 75 mm, length 13.5 cm |
| ㉝ | 20x | 400500 | HARTMANN Nasal Speculum , for adults, length 13 cm |
| ㉞ | 5x | 400600 | Same , for children |
| ㉟ | 2x | 203830 | Suction Tubes , conical, outer diameter 3 mm |
| ㊱ | 2x | 203835 | Same , outer diameter 3.5 mm |
| ㊲ | | 203845 | Same , outer diameter 4.5 mm |
| ㊳ | | 428001 | HARTMANN Nasal Dressing Forceps , light model |
| ㊴ | | 600007 | LUER-Lock Tube Connector , male, tube diameter 6 mm |
| ㊵ | 2x | 586025 | v. EICKEN Antrum Cannulas , LUER-Lock, long curve, outer diameter 2.5 mm, length 12.5 cm |
| ㊶ | | 511414 | JOSEPH Scissors , curved, length 14 cm |
| ㊷ | | 208211 | Blade , Fig. 11, sterile, package of 100 |
| ㊸ | | 208000 | Surgical Handle , Fig. 3, length 12.5 cm |
| ㊹ | | 208215 | Blade , Fig. 15, sterile, package of 100 |
| ㊺ | 20x | 740000 | BRÜNING'S Tongue Depressors , length 19 cm |
| ㊻ | | 750000 | Forceps , serrated, length 20 cm |
| ㊼ | | 815200 | Jar , made of stainless steel, diameter 5 cm, height 17.5 cm (not illustrated) |
| ㊽ | 5x | 767900 | Laryngeal Mirror , with removable hexagonal handle, size 0 |
| ㊾ | 8x | 767902 | Same , size 2 |
| ㊿ | 12x | 767906 | Same , size 6 |
| ① | 5x | 767908 | Same , size 8 |
| ② | | 726000 | Postnasal Applicator , working length 22 cm |
| ③ | | 770800 | PELTESON Cotton Applicator , working length 27 cm |
| ④ | | 138805 | FRENZEL Nystagmus Spectacles , black frame, with ventilation slot, rubber band and cable with 25 mm flat-cable plug, including 2 Lamps 138964, 4 V (not illustrated) |
| | | 138964 | Spare Lamp , 4 Volt, for 138805 (not illustrated) |
| | 2x | 820525 | Kidney-Shaped Dressing Tray , stainless steel, length 25 cm (not illustrated) |

Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**

39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Myringotomy Set



Myringotomy Set

| | | |
|---|--------|--|
| ① | 122005 | HARTMANN Ear Speculum , outer diameter 5 mm |
| ② | 122006 | Same , outer diameter 6 mm |
| ③ | 122007 | Same , outer diameter 7.5 mm |
| ④ | 221100 | HARTMANN Ear Forceps , extra delicate, serrated, working length 8 cm |
| ⑤ | 153301 | BUCK Ear Curette , blunt, size 1, length 14.5 cm |
| ⑥ | 223300 | PLESTER Sickle Knife |
| ⑦ | 224303 | WULLSTEIN Needle , slight curve, length 16.5 cm |
| ⑧ | 225208 | Pick 90° , size 0.8 mm |
| ⑨ | 204200 | FISCH Adaptor , for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 5.5 cm |
| ⑩ | 204310 | Suction Tube , straight, LUER-Lock, malleable, outer diameter 1 mm, length 10 cm |
| ⑪ | 204313 | Same , outer diameter 1.3 mm |
| ⑫ | 204315 | Same , outer diameter 1.5 mm |
| ⑬ | 204320 | Same , outer diameter 2 mm |
| ⑭ | 230100 | TÜBINGEN Ventilation Tube , made of precious metal and gold-plated, sterile, package of 10 |
| ⑮ | 239620 | Instrument Rack , for 5 instruments, size 195 x 100 mm, with holder for ear specula |
| ⑯ | 239020 | Metal Case , perforated, 200 x 100 x 40 mm (w x d x h), for 239620 |

As required:

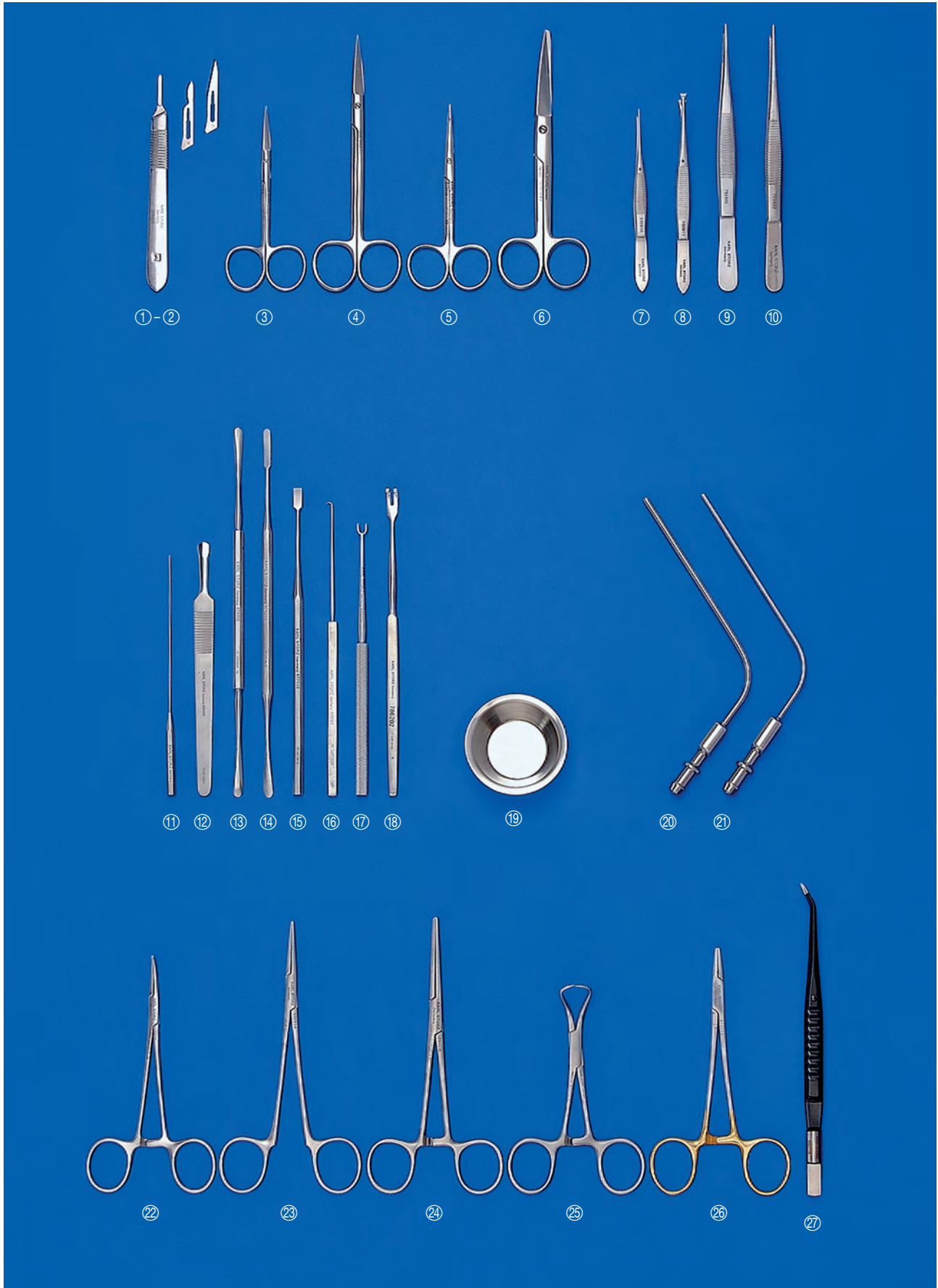
| | | |
|---|---------|--|
| ⑰ | 1218 AA | Tele-Otoscope , with HOPKINS® Straight Forward Telescope 0° , diameter 3 mm, length 6 cm, autoclavable , fiber optic light transmission incorporated, color code: green |
|---|---------|--|

Accessories recommended for containers (not illustrated):

| | |
|----------|--|
| 39502 MB | Wire Tray for MiniSet Container for Cleaning, Sterilization and Storage |
| 39781 A | MiniSet Container , with MicroStop® |
| 39763 A2 | Coding Label |
| 39762 D2 | Color Tab , blue |

Further accessories for cleaning and sterilization see catalog HYGIENE

Otoplasty Set



8-943

Otoplasty Set

| | | |
|---|-----------|---|
| ① | 208000 | Surgical Handle , Fig. 3, length 12.5 cm |
| ② | 208015 | Blade , Fig. 15, non-sterile, package of 100 |
| | 208011 | Blade , Fig. 11, non-sterile, package of 100 (not illustrated) |
| ③ | 511210 | Scissors , extra delicate, curved, length 10 cm |
| ④ | 511414 | JOSEPH Scissors , curved, length 14 cm |
| ⑤ | 513410 | COTTLE Scissors , curved, length 10.5 cm |
| ⑥ | 791202 | Scissors , curved, sharp/blunt, length 14.5 cm |
| ⑦ | 530910 | Tissue Forceps , delicate, 1 x 2 teeth, length 10 cm |
| ⑧ | 530811 | Tissue Forceps , 7 x 8 fine teeth, length 11 cm |
| ⑨ | 792402 | Dressing Forceps , length 14.5 cm |
| ⑩ | 793402 | Tissue Forceps , length 14.5 cm |
| ⑪ | 151011 | Cotton Applicator , triangular serrated, working length 13 cm |
| ⑫ | 493000 | COTTLE Nasal Knife , rounded edge, length 14 cm |
| ⑬ | 474000 | FREER Elevator , double-ended, length 20 cm |
| ⑭ | 474200 | FREER-JOSEPH Elevator , double-ended, length 20 cm |
| ⑮ | 477500 | FREER Raspatory , curved, width 4 mm, length 18 cm |
| ⑯ | 499101 | Hook , one prong, large curve, length 16.5 cm |
| ⑰ | 499205 | JOSEPH Double Hook , sharp, width 5 mm, length 15 cm |
| ⑱ | 786202 | Retractor , blunt, 2 prongs, length 17 cm |
| ⑲ | 810802 | Cup Medicine , 25 ccm |
| ⑳ | 204810 | FERGUSON Suction Tube , 10 Fr. |
| ㉑ | 204808 | Same , 8 Fr. |
| ㉒ | 6x 535212 | HALSTEAD "Mosquito" Artery Forceps , curved |
| ㉓ | 537014 | Dissecting Forceps , straight, without ratchet, length 14 cm |
| ㉔ | 794014 | ROCHESTER-PEAN Artery Forceps , straight, length 14 cm |
| ㉕ | 6x 796011 | BACKHAUS Towel Forceps , length 11 cm |
| ㉖ | 516013 | Needle Holder , tungsten carbide inserts, length 13 cm |
| ㉗ | 842116 | Bipolar Coagulation Forceps , length 16 cm |

Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**

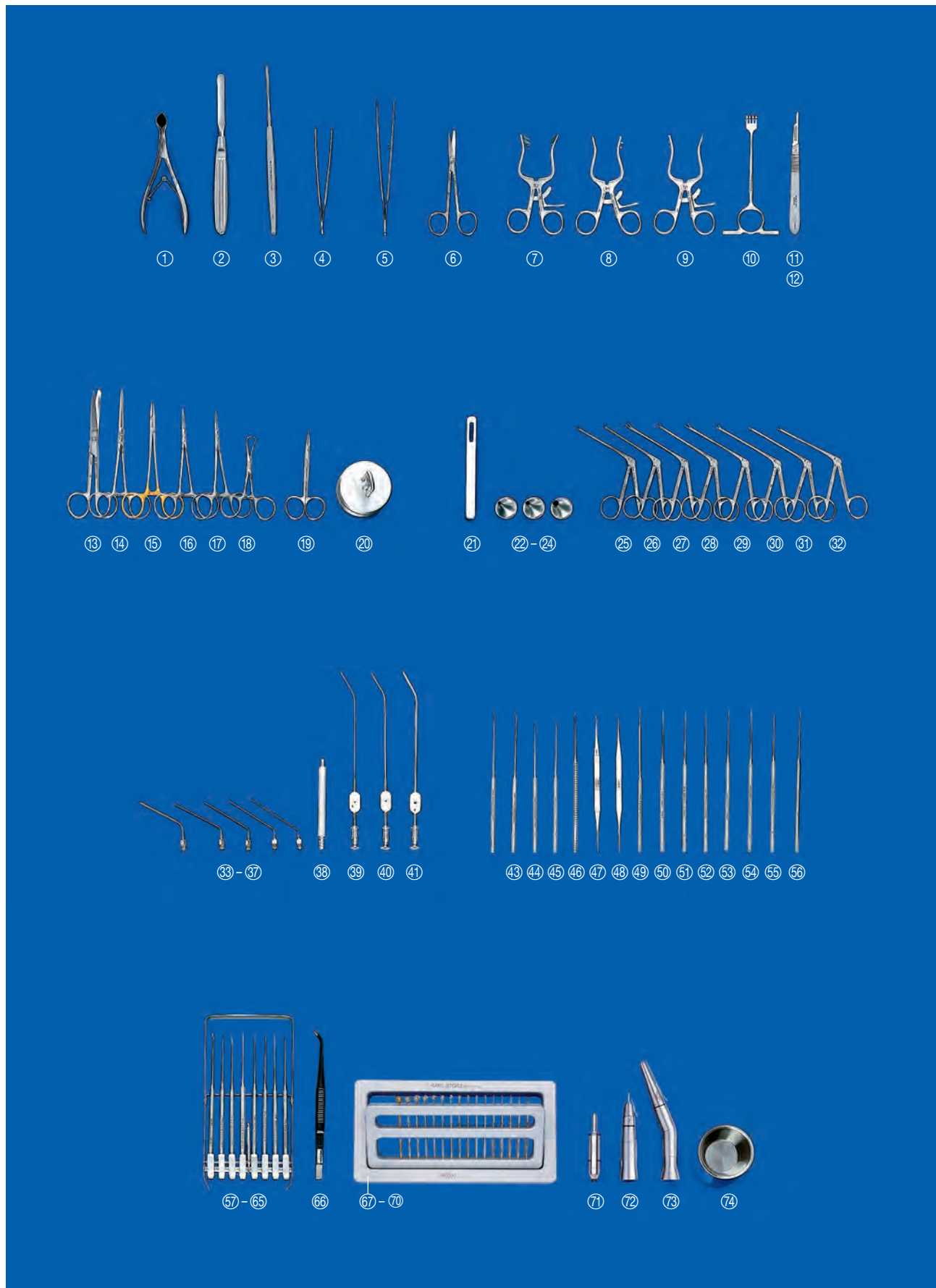
39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

PLESTER Basic Set for Ear Micro Surgery



8-942

PLESTER Basic Set for Ear Micro Surgery

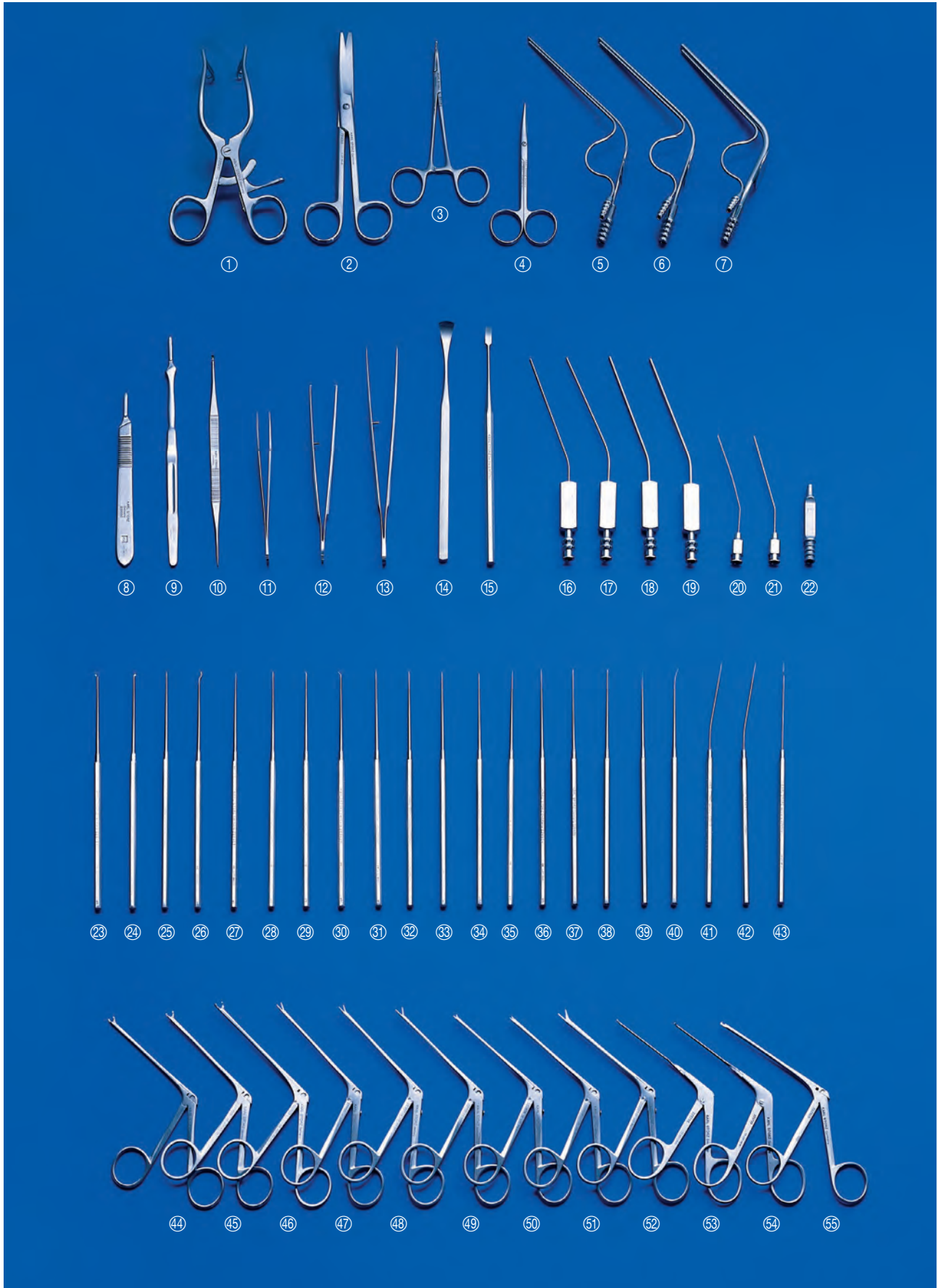
| | | | | | |
|---|-----------|--|----|-------------|---|
| ① | 400500 | HARTMANN Nasal Speculum , length 13 cm | ④⑦ | 2x 224001 | HOUSE Curette , large |
| ② | 213008 | PLESTER Elevator , width 8 mm | ④⑧ | 2x 224002 | Same , small |
| ③ | 212803 | LEMPERT Elevator , width 3 mm | ④⑨ | 225008 | HEERMANN Hook , retrograde |
| ④ | 213500 | Tissue Forceps , 1 x 2 teeth, length 11.5 cm | ⑤⑩ | 225405 | Pick 45° , size 0.5 mm |
| ⑤ | 214000 | WULLSTEIN Forceps , serrated, length 15 cm | ⑤⑪ | 223400 | KLEY Knife , footplate |
| ⑥ | 213200 | Scissors , curved, sharp/blunt, length 12 cm | ⑤⑫ | 2x 224802 | Hooks , footplate, 0.2 mm, length 16 cm |
| ⑦ | 2x 220211 | PLESTER Retractors , 2 x 2 prongs | ⑤⑬ | 2x 224806 | PLESTER Hooks , footplate, 0.6 mm, length 16 cm |
| ⑧ | 220411 | Same , left side with full blade | ⑤⑭ | 226600 | FISCH Perforator |
| ⑨ | 220511 | Same , right side with full blade | ⑤⑮ | 224400 | PLESTER Guiding Fork |
| ⑩ | 220700 | WILLIGER Retractor , 4 prongs, sharp | ⑤⑯ | 225410 | Pick 45° , size 1 mm |
| ⑪ | 2x 208000 | Surgical Handle , Fig. 3, length 12.5 cm | ⑤⑰ | 2x 223100 | PLESTER Round Knives , vertical |
| ⑫ | 208015 | Blade , Fig. 15, non-sterile, package of 100 | ⑤⑱ | 2x 226820 | Round Knives 45° , diameter 2 mm |
| | 208011 | Same , Fig. 11 (not illustrated) | ⑤⑲ | 2x 223300 | PLESTER Sickle Knife |
| | 208010 | Same , Fig. 10 (not illustrated) | ⑥① | 2x 224303 | WULLSTEIN Needles , slightly curved, length 16.5 cm |
| ⑬ | 791202 | Scissors , curved, pointed/blunt, length 14.5 cm | ⑥② | 225204 | Pick 90° , size 0.4 mm, length 16 cm |
| ⑭ | 794014 | ROCHESTER-PEAN Artery Forceps | ⑥③ | 225206 | Same , size 0.6 mm |
| ⑮ | 516013 | Needle Holder , tungsten carbide inserts, length 13 cm | ⑥④ | 225208 | Same , size 0.8 mm |
| ⑯ | 535012 | HALSTEAD " Mosquito " Artery Forceps , straight | ⑥⑤ | 225210 | Same , size 1 mm |
| ⑰ | 2x 535212 | Same , curved | | 239600 | Rack for 8 Instruments , 195 x 100 mm |
| ⑱ | 6x 796008 | BACKHAUS Towel Forceps , length 8 cm | | 239212 | Magnet Instrument Rack , 180 x 95 mm (not illustrated) |
| ⑲ | 227600 | GUILFORD-WRIGHT Wire Cutter , length 10 cm | | 239900 | Instrument Tray , perforated, 195 x 100 mm (not illustrated) |
| ⑳ | 227800 | SCHUKNECHT Wire Bending Die | | 239200 | Magnet Instrument Rack , 280 x 190 mm (not illustrated) |
| ㉑ | 6x 223000 | TEFLON Instrument Guard , for micro instruments | | 2x 239000 | Metal Cases , 300 x 200 x 50 mm, for 239200, 239212, 239600 and 239900 (not illustrated) |
| ㉒ | 122005 | HARTMANN Ear Speculum , outer diameter 5 mm | ⑥⑥ | 842216 | Bipolar Coagulating Forceps , length 16 cm |
| ㉓ | 122006 | Same , outer diameter 6 mm | | 847000 E | Bipolar High Frequency Cord , for Bipolar Forceps 842216, to KARL STORZ AUTOCON® |
| ㉔ | 122007 | Same , outer diameter 7.5 mm | | | Coagulator and Erbe Coagulator (not illustrated) |
| ㉕ | 221100 | HARTMANN Ear Forceps , extra delicate | ⑥⑦ | 280030 | Rack , for 36 straight shaft burrs |
| ㉖ | 221200 | FISCH Ear Forceps , extra delicate, pointed | ⑥⑧ | 261000 | Tungsten Carbide Shaft Burrs , set of 15 |
| ㉗ | 161000 | HARTMANN Ear Forceps , serrated, working length 8 cm | ⑥⑨ | 262000 | Diamond Straight Shaft Burrs , set of 15 |
| ㉘ | 221409 | WULLSTEIN Ear Forceps , oval cupped jaws, 0.9 mm | ⑦① | 265060 | Diamond Straight Shaft Burr , oblong, cylindrical, diameter 6 mm |
| ㉙ | 162020 | HARTMANN Ear Forceps , round cupped jaws, diameter 2 mm | | 40 701620-1 | UNIDRIVE® S III ENT SCB (not illustrated) |
| ㉚ | 222600 | BELLUCCI Scissors , delicate standard model | ⑦② | 20 711033 | High Performance EC Micro Motor II |
| ㉛ | 222800 | HOUSE-DIETER Malleus Nipper | ⑦③ | 20 711173 | Connecting Cable (not illustrated) |
| ㉜ | 227400 | McGEE Wire Crimper | ⑦④ | 252490 | INTRA Handpiece , straight |
| ㉝ | 4x 204007 | Suction Tubes , angular, outer diameter 0.7 mm | | 252475 | Same , angled |
| ㉞ | 4x 204010 | Same , outer diameter 1 mm | | 280052 | Universal Spray , for fast, smooth and thorough cleaning and lubrication, for INTRA drill handpieces and EC motors, package of 6 sprayers and 1 Spray Diffuser |
| ㉟ | 4x 204013 | Same , outer diameter 1.3 mm | | | 280052 C – HAZARDOUS GOODS – UN 1950 (not illustrated) |
| ㊱ | 4x 204015 | Same , outer diameter 1.5 mm | | | Cup Medicine , 25 ccm |
| ㊲ | 4x 204020 | Same , outer diameter 2 mm | | | |
| ㊳ | 204001 | Suction Handle , with cut-off hole, length 10 cm | ⑦⑤ | 810802 | |
| ㊴ | 204405 | PLESTER Suction Tube , 5 Fr. | | | |
| ㊵ | 204407 | Same , 7 Fr. | | | |
| ㊶ | 204409 | Same , 9 Fr. | | | |
| ㊷ | 152301 | Ear Hook , without ball end, size 1, length 15.5 cm | | | |
| ㊸ | 223803 | Seeker , with ball end, angled 45°, size 3 | | | |
| ㊹ | 153420 | BUCK Ear Curette , sharp, size 00 | | | |
| ㊺ | 153410 | Same , size 0 | | | |
| ㊻ | 224600 | PLESTER Hook | | | |

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

FISCH Special Set for Middle Ear Surgery, Tympanoplasty and Stapedotomy



FISCH Special Set for Middle Ear Surgery, Tympanoplasty and Stapedotomy

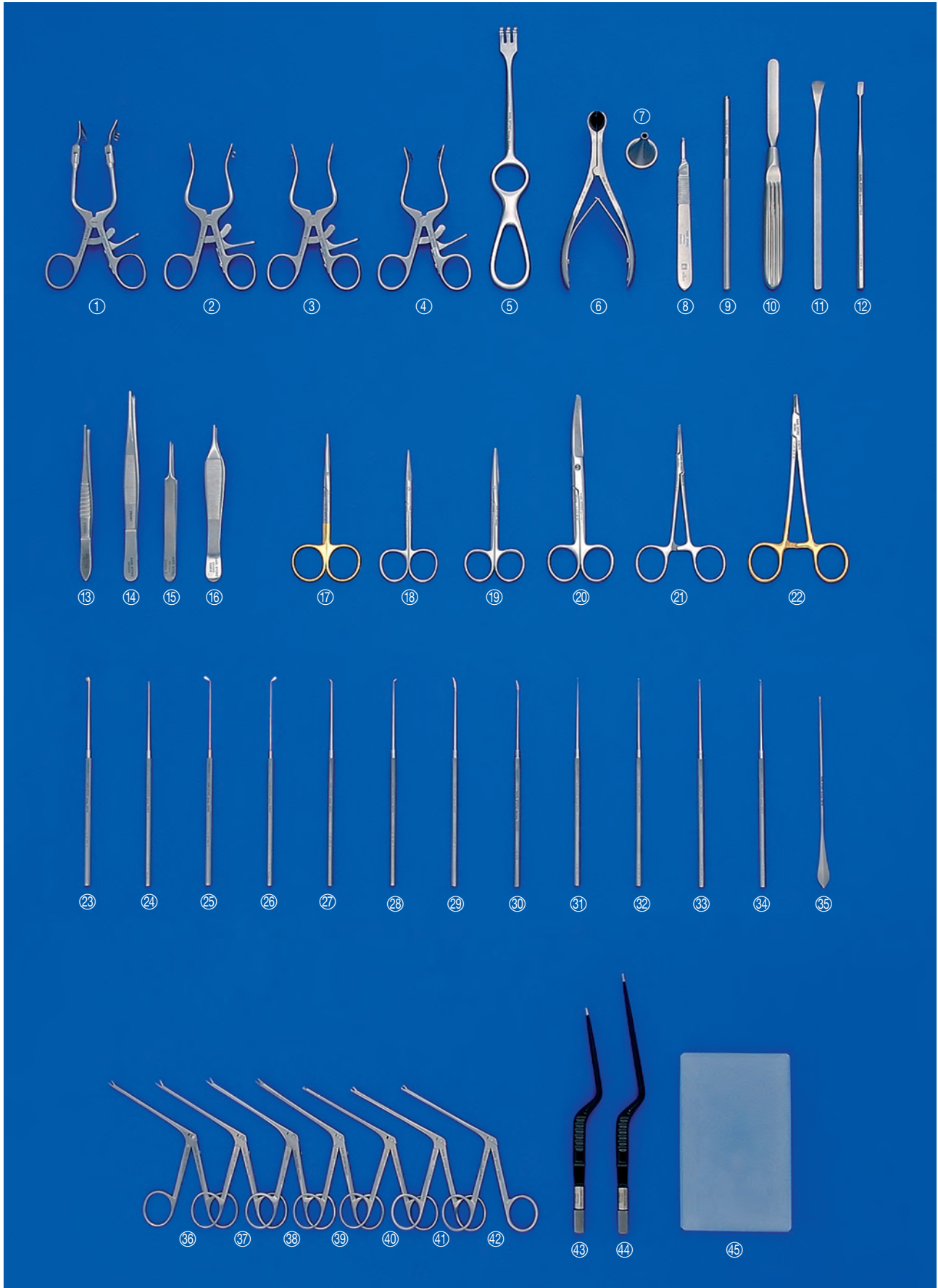
| | | | |
|---|----|----------|--|
| ① | 2x | 220213 | FISCH Retractors , 2 x 2 prongs, length 13 cm |
| ② | | 792003 | MAYO Dissecting Scissors , curved, length 15 cm |
| ③ | | 535312 | HALSTEAD "Mosquito" Artery Forceps , micro-model, curved, length 12.5 cm |
| ④ | | 213410 | FISCH Scissors , extra delicate, curved, sharp/sharp, length 10.5 cm |
| ⑤ | | 206300 | FISCH Suction and Irrigation Tube , conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm |
| ⑥ | | 206600 | FISCH Suction and Irrigation Tube , cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm |
| ⑦ | | 206700 | Same , outer diameter suction tube 1.9 mm, irrigation tube outer diameter 1.9 mm |
| ⑧ | | 208000 | Surgical Handle , Fig. 3, length 12.5 cm |
| ⑨ | | 211804 | FISCH Dual Purpose Scalpel Handle , elevator on one side, scalpel handle no. 7 on the other side, length 16 cm |
| ⑩ | | 224003 | HOUSE Curette , medium |
| ⑪ | | 214500 F | Jeweler Forceps , fine, pointed, soft spring, length 11 cm |
| ⑫ | | 793303 F | Forceps , 1 x 2 teeth, fine size, soft spring, length 13 cm |
| ⑬ | | 214000 F | WULLSTEIN Forceps , soft spring, length 15 cm |
| ⑭ | | 213011 | FISCH Elevator , sharp, width 10 mm, length 16 cm |
| ⑮ | | 477500 | FREER Raspatory , curved, width 4 mm, length 18 cm |
| ⑯ | | 204729 | FISCH Suction Tube , outer diameter 1.2 mm |
| ⑰ | | 204730 | Same , outer diameter 1.5 mm |
| ⑱ | | 204732 | Same , outer diameter 2 mm |
| ⑲ | | 204733 | Same , outer diameter 2.2 mm |
| ⑳ | | 204352 | Suction Tube , angular, outer diameter 0.7 mm, working length 7 cm |
| ㉑ | | 204354 | Same , outer diameter 1 mm |
| ㉒ | | 204250 | FISCH Adaptor , with cut-off hole, LUER cone |
| ㉓ | | 226101 | FISCH Micro Raspatory , single curved to right, length 16 cm |
| ㉔ | | 226102 | Same , curved to left |
| ㉕ | | 226810 | Round Knife 45° , diameter 1 mm, length 16 cm |
| ㉖ | | 226301 | FISCH Tenotome , extra fine, length 16 cm |
| ㉗ | | 225405 | Pick 45° , size 0.5 mm, length 16 cm |
| ㉘ | | 225410 | Same , size 1 mm |
| ㉙ | | 225415 | Same , size 1.5 mm |
| ㉚ | | 225425 | Same , size 2.5 mm |
| ㉛ | | 225205 | Pick 90° , size 0.5 mm, length 16 cm |
| ㉜ | | 225210 | Same , size 1 mm |
| ㉝ | | 225215 | Same , size 1.5 mm |
| ㉞ | | 225220 | Same , size 2 mm |
| ㉟ | | 226600 | FISCH Manual Perforator , diameter 0.3 mm, length 16 cm |
| ㊱ | | 226604 | Same , diameter 0.4 mm |
| ㊲ | | 226605 | Same , diameter 0.5 mm |
| ㊳ | | 226606 | Same , diameter 0.6 mm |
| ㊴ | | 224812 | FISCH Hook , footplate, curved upwards 90° |
| ㊵ | | 224813 | Same , curved downwards 90° |
| ㊶ | | 226514 | FISCH Measuring Caliper , angled shaft, diameter 0.4 mm, length 16 cm |
| ㊷ | | 226516 | Same , diameter 0.6 mm |
| ㊸ | | 226500 | FISCH Measuring Rod , length 16 cm |
| ㊹ | | 221409 | WULLSTEIN Ear Forceps , extra delicate, oval cupped jaws, 0.9 mm, working length 8 cm |
| ㊺ | | 221406 | Same , oval cupped jaws, 0.6 mm |
| ㊻ | | 162020 | HARTMANN Ear Forceps , round cupped jaws, diameter 2 mm |
| ㊼ | | 221100 | HARTMANN Ear Forceps , extra delicate, serrated, working length 8 cm |
| ㊽ | | 221201 | FISCH Ear Forceps , extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm |
| ㊾ | | 221110 | FISCH-HARTMANN Ear Forceps , extra delicate, smooth, 1 x 4.5 mm, working length 8 cm |
| ㊿ | | 222606 | FISCH-BELLUCCI Micro Scissors , extra delicate, blade length 3 mm, with thin sheath, working length 8 cm |
| 1 | | 222603 | FISCH-BELLUCCI Micro Scissors , extra delicate, blade length 3 mm, working length 8 cm |
| 2 | | 222501 | FISCH-BELLUCCI Scissors , extra fine, blade length 7 mm, working length 8 cm |
| 3 | | 222710 | FISCH Crurotomy Scissors , curved to right, working length 7.5 cm |
| 4 | | 222720 | Same , curved to left |
| 5 | | 222801 | FISCH-DIETER Malleus Nipper , width 0.8 mm, working length 8 cm |
| 6 | | 239728 | Metal Tray , for 20 straight ear micro instruments with octagonal Handle, 275 x 175 x 36 mm (not illustrated) |

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

DALCHOW Instrument Set for Pediatric Tympanoplasty



DALCHOW Instrument Set for Pediatric Tympanoplasty

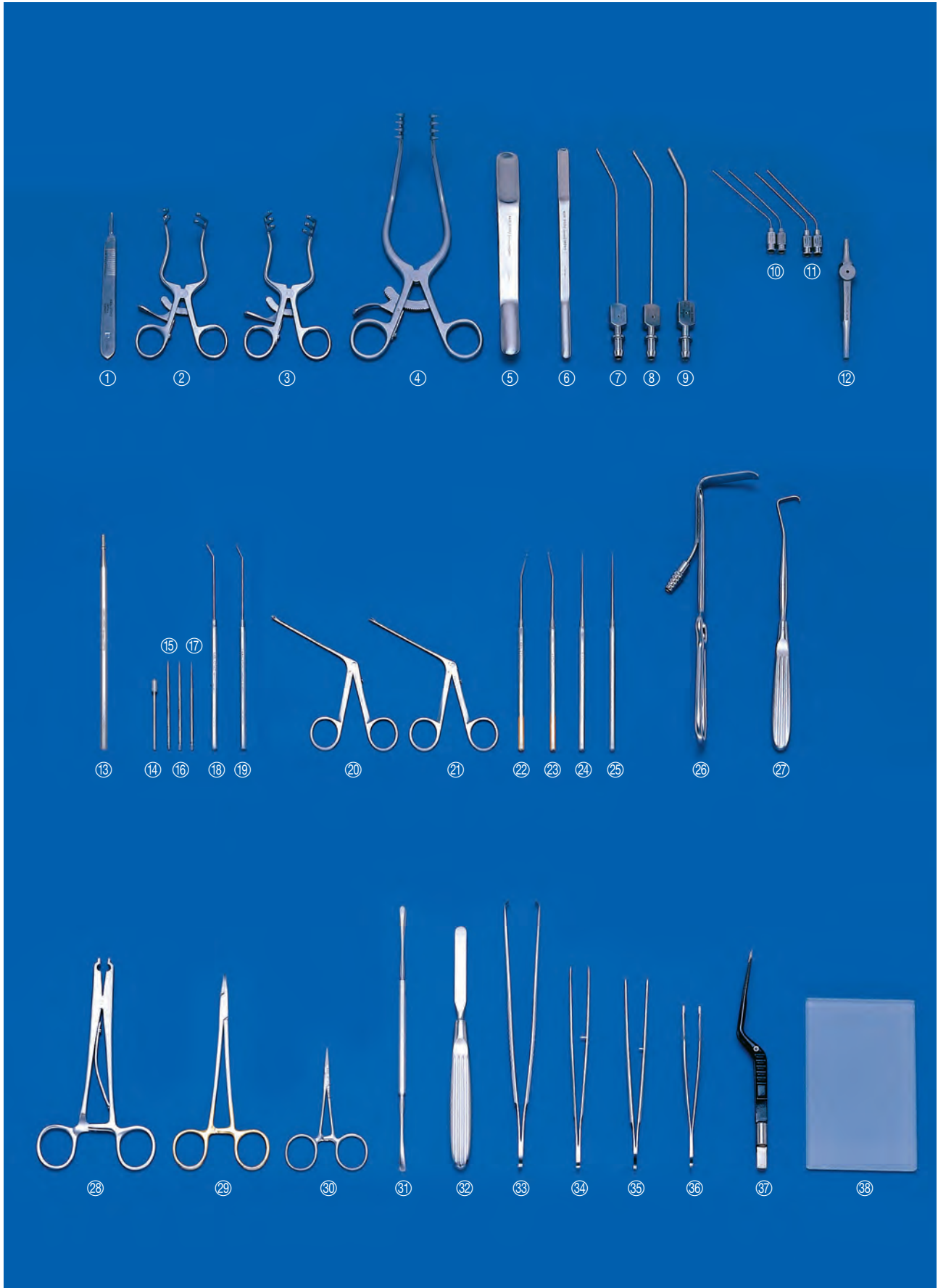
- ① 219714 K DALCHOW **Retractor**, 3 x 3 prongs, sharp, with adjustable swivel arms, length 14 cm
- ② 220421 K **Same**, 2 prongs on right, left full blade with atraumatic teeth, length 11 cm
- ③ 220521 K **Same**, 2 prongs on left, right full blade with atraumatic teeth, length 11 cm
- ④ 220211 K **Same**, 2 x 2 prongs, length 11 cm
- ⑤ 800503 VOLKMANN **Retractor**, blunt, 3 prongs, length 21 cm
- ⑥ 400500 HARTMANN **Nasal Speculum**, length 13 cm
- ⑦ 122005 HARTMANN **Ear Speculum**, outer diameter 5 mm
- ⑧ 208000 **Surgical Handle**, Fig. 3, length 12.5 cm
- ⑨ 496500 **Surgical Handle**, for miniature blades, round, length 15.5 cm
- ⑩ 213008 PLESTER **Raspatory**, width 8 mm, length 18 cm
- ⑪ 213011 FISCH **Raspatory**, width 10 mm, length 16 cm
- ⑫ 477500 FREER **Raspatory**, curved, width 4 mm, length 18 cm
- ⑬ 213500 **Tissue Forceps**, 1 x 2 teeth, length 11.5 cm
- ⑭ 793401 **Tissue Forceps**, 1 x 2 teeth, standard width, length 14.5 cm
- ⑮ 214500 F **Jeweler Forceps**, fine, pointed, soft spring, length 11 cm
- ⑯ 533012 ADSON **Dressing Forceps**, serrated, length 12 cm
- ⑰ 512511 **Scissors**, with tungsten carbide inserts, blunt/blunt, curved, length 11 cm
- ⑱ 511010 **Scissors**, extra delicate, straight, length 10 cm
- ⑲ 513410 COTTLE **Scissors**, curved, length 10.5 cm
- ⑳ 791202 **Dissecting Scissors**, curved, sharp/blunt, length 14.5 cm
- ㉑ 535212 HALSTEAD "Mosquito" **Artery Forceps**, curved, length 12.5 cm
- ㉒ 516015 **Needle Holder**, tungsten carbide inserts, length 15 cm
- ㉓ 223100 PLESTER **Round Knife**, vertical, standard size 3.5 x 2.5 mm, length 16 cm
- ㉔ 226810 **Round Knife 45°**, diameter 1 mm, length 16 cm
- ㉕ 226105 DALCHOW **Micro Raspatory**, single curved to right, width 1.5 mm, length 16 cm
- ㉖ 226106 **Same**, single curved to left
- ㉗ 226101 FISCH **Micro Raspatory**, single curved to right, length 16 cm
- ㉘ 226102 **Same**, left
- ㉙ 223300 PLESTER **Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- ㉚ 223302 PLESTER **Sickle Knife**, double-edged, medium curve, length 16 cm
- ㉛ 225204 **Pick**, 90°, size 0.4 mm, length 16 cm
- ㉜ 225206 **Same**, size 0.6 mm
- ㉝ 225208 **Same**, size 0.8 mm
- ㉞ 225210 **Same**, size 1 mm
- ㉟ 797114 **Myrtle Leaf Probe**, diameter 1.5 mm, length 14.5 cm
- ㊱ 221201 FISCH **Ear Forceps**, extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm
- ㊲ 221200 **Same**, pointed, 1 x 4.5 mm
- ㊳ 221100 HARTMANN **Ear Forceps**, extra delicate, serrated, working length 8 cm
- ㊴ 222600 BELLUCCI **Scissors**, delicate standard model, blade length 8 mm, working length 8 cm
- ㊵ 222801 FISCH-DIETER **Malleus Nipper**, extra delicate, upbiting, width 0.8 mm, working length 8 cm
- ㊶ 221406 WULLSTEIN **Ear Forceps**, extra delicate, oval cupped jaws, 0.6 mm, working length 8 cm
- ㊷ 221409 **Same**, 0.9 mm
- ㊸ 844116 **Bipolar Coagulation Forceps**, insulated, bayonet-shaped, pointed, length 16 cm
- ㊹ 844219 **Same**, blunt, width of tip 1 mm, length 19 cm
- ㊺ 847000 E **Bipolar High Frequency Cord**, for KARL STORZ bipolar instruments, for use with AUTOCON® 50/200/350 and Erbe coagulator (not illustrated)
- ㊻ 231008 **Preparation Plate**, glass, 10 x 8 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39750 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

LENARZ Supplement Set for Cochlear Implantation



11-03z

LENARZ Supplement Set for Cochlear Implantation

| | | |
|---|-----------|--|
| ① | 208000 | Surgical Handle , Fig. 3, length 12.5 cm |
| ② | 220211 | PLESTER Retractor , 2 x 2 prongs, length 11 cm |
| ③ | 219511 | WULLSTEIN Retractor , 3 x 3 prongs, length 11 cm |
| ④ | 2x 214920 | ANDERSON-ADSON Retractor , 4 x 4 prongs, sharp, curved, length 20 cm |
| ⑤ | 662477 | OLIVECRONA Brain Spatula , angled on both sides, concave, elastic, width 11 and 13 mm, length 18 cm |
| ⑥ | 662476 | Same , width 7 and 9 mm |
| ⑦ | 204405 | PLESTER Suction Tube , with grip plate, cut-off hole and stylet, LUER, 5 Fr., length 20 cm |
| ⑧ | 204407 | Same , 7 Fr. |
| ⑨ | 204409 | Same , 9 Fr. |
| ⑩ | 2x 204005 | Suction Tube , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm |
| ⑪ | 2x 204007 | Same , outer diameter 0.7 mm |
| ⑫ | 204004 | WULLSTEIN Suction Handle , with cut-off hole, LUER cone, length 10 cm, for Suction Tubes 204005 – 204025, 204305 – 204330 |
| ⑬ | 233110 | Octagonal Handle , with LUER cone, straight, length 17 cm |
| ⑭ | 262550 | Diamond Burr , barrel-shaped, diameter 5 mm, length 10 mm, for creating a flat bone edge during cochlea implantation surgery, blunt tip, with smooth shaft diameter 2.35 mm, length 44 mm |
| ⑮ | 262506 | Diamond Burr , shaft diameter 2.35 mm, diameter 0.6 mm, length 70 mm |
| ⑯ | 262510 | Same , diameter 1 mm |
| ⑰ | 262514 | Same , diameter 1.4 mm |
| ⑱ | 223891 | Seeker , extra delicate, angled 25°, with ball end diameter 1 mm, length 16 cm |
| ⑲ | 223892 | Same , with ball end diameter 1.5 mm |
| ⑳ | 233212 | Forceps , for insertion of cochlea electrodes, nucleus 24 contour, curved to left, working length 6 cm |
| ㉑ | 233211 | Same , curved to right |
| ㉒ | 233105 | Micro Guiding Instrument , for electrodes array, claw-shaped, tip angled downwards, length 16 cm |
| ㉓ | 233106 | Same , tip angled upwards |
| ㉔ | 224802 | Footplate Hook , 0.2 mm, length 16 cm |
| ㉕ | 224806 | PLESTER Footplate Hook , 0.6 mm, length 16 cm |
| ㉖ | 801814 | LENARZ Retractor , 43 x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm |
| ㉗ | 786500 | SCHÖNBORN Thymus Retractor , width 5 mm, length 20.5 cm |
| ㉘ | 799990 | RANEY Applying and Removing Forceps , for scalp haemostasis clips, length 16 cm |
| | 799995 | RANEY Scalp Haemostasis Clips , package of 12 (not illustrated) |
| ㉙ | 516015 | Needle Holder , tungsten carbide inserts, length 15 cm |
| ㉚ | 536909 | Dissecting and Ligature Forceps , straight, smooth jaws, length 9.5 cm |
| ㉛ | 474000 | FREER Elevator , double-ended, semisharp and blunt, length 20 cm |
| ㉜ | 213008 | PLESTER Raspatory , width 8 mm, length 18 cm |
| ㉝ | 662721 | ALLIS Forceps , with fine teeth, length 20 cm |
| ㉞ | 214000 | WULLSTEIN Forceps , serrated, length 15 cm |
| ㉟ | 792403 | Dressing Forceps , narrow width, length 14.5 cm |
| ㊱ | 533212 | ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm |
| ㊲ | 844319 | Bipolar Coagulation Forceps , insulated, bayonet-shaped, slender, tip 0.5 mm wide, length 19 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V |
| | 847000 E | Bipolar High Frequency Cord , for KARL STORZ bipolar instruments, for use with AUTOCON® 50/200/350 and Erbe coagulator (not illustrated) |
| ㊳ | 231008 | Preparation Plate , glass, 10 x 8 cm |

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

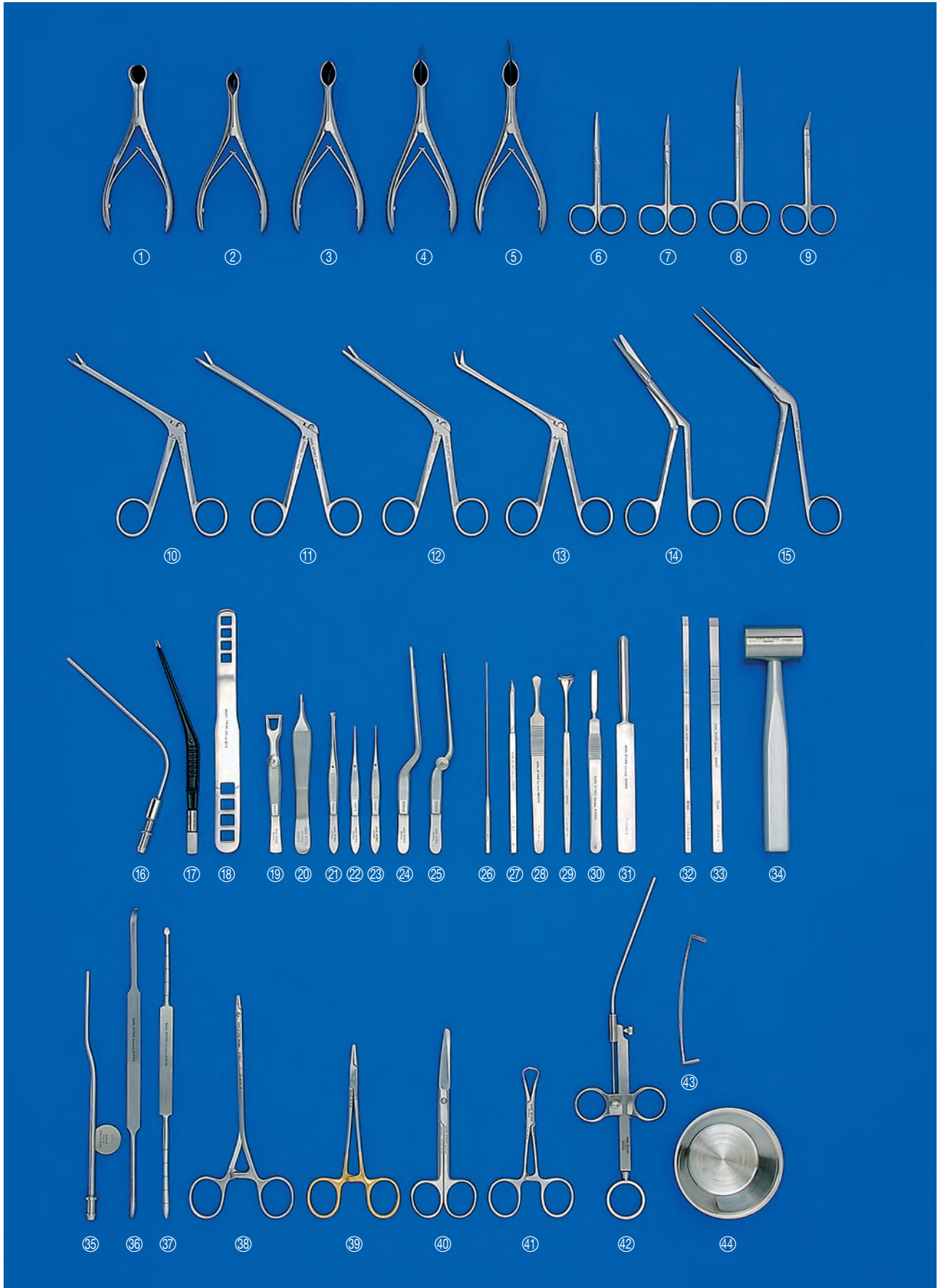
39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Set for Septum Surgery



Basic Set for Septum Surgery

| | | |
|---|-----------|--|
| ① | 400500 | HARTMANN Nasal Speculum , for adults, length 13 cm |
| ② | 403655 | COTTLE Nasal Speculum , blade length 55 mm, length 13 cm |
| ③ | 403555 | KILLIAN-STRUJCKEN Nasal Speculum , standard model, blade length 55 mm, length 13.5 cm |
| ④ | 403575 | Same , blade length 75 mm |
| ⑤ | 403590 | Same , blade length 90 mm |
| ⑥ | 513410 | COTTLE Scissors , curved, length 10.5 cm |
| ⑦ | 511210 | Scissors , extra delicate, curved, length 10 cm |
| ⑧ | 511414 | JOSEPH Scissors , curved, length 14 cm |
| ⑨ | 513200 | WALTER Scissors , angled, length 10 cm |
| ⑩ | 456001 | BLAKESLEY Nasal Forceps , size 1 |
| ⑪ | 456003 | Same , size 3 |
| ⑫ | 455500 | TAKAHASHI Nasal Forceps , working length 9.5 cm |
| ⑬ | 449002 | HEYMANN Nasal Scissors , medium |
| ⑭ | 456502 | BLAKESLEY-WILDE Nasal Forceps , 45° upturned, size 2 |
| ⑮ | 430300 | LUBET-BARBON Nasal Dressing Forceps |
| ⑯ | 204809 | FERGUSON Suction Tube , 9 Fr. |
| ⑰ | 843116 | Bipolar Coagulating Forceps , angular |
| | 847000 E | Bipolar High Frequency Cord , for Coagulation Forceps 843116, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated) |
| ⑱ | 740000 | BRÜNNINGS Tongue Depressor , length 19 cm |
| ⑲ | 534500 | COTTLE Columella Clamp , length 11 cm |
| ⑳ | 533212 | ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm |
| ㉑ | 530811 | Tissue Forceps , 7 x 8 fine teeth, length 11 cm |
| ㉒ | 530710 | Dressing Forceps , delicate, length 10 cm |
| ㉓ | 530910 | Same , straight, 1 x 2 teeth |
| ㉔ | 426516 | JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm |
| ㉕ | 534015 | COTTLE Lower Lateral Forceps , bayonet-shaped |
| ㉖ | 2x 417013 | Cotton Applicators , triangular serrated, length 15 cm |
| ㉗ | 496800 | Nasal Knife , curved |
| ㉘ | 493000 | COTTLE Nasal Knife , rounded edge, length 14 cm |
| ㉙ | 498400 | COTTLE Retractor |
| ㉚ | 478304 | McKENTY Raspatory , width 4 mm |
| ㉛ | 525800 | Elevator , for reposition |
| ㉜ | 484004 | COTTLE Chisel , flat, width 4 mm |
| ㉝ | 484007 | Same , width 7 mm |
| ㉞ | 174200 | COTTLE Metal Mallet |
| ㉟ | 479800 | Suction Raspatory , with stylet |
| ㊱ | 479200 | COTTLE Elevator , double-ended |
| ㊲ | 479000 | MASING Elevator , double-ended |
| ㊳ | 515017 | Needle Holder , extra delicate, length 17 cm |
| ㊴ | 516013 | Needle Holder , tungsten carbide inserts, length 13 cm |
| ㊵ | 791202 | Scissors , curved, sharp/blunt, length 14.5 cm |
| ㊶ | 6x 796011 | BACKHAUS Towel Forceps , length 11 cm |
| ㊷ | 440000 | KRAUSE Nasal Snare , length 25 cm |
| ㊸ | 443500 | Nasal Snare Wire , for 440000 – 441510, package of 25 |
| ㊹ | 2x 810810 | Cup Medicine , 100 ccm |

Accessories recommended for containers (not illustrated):

 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

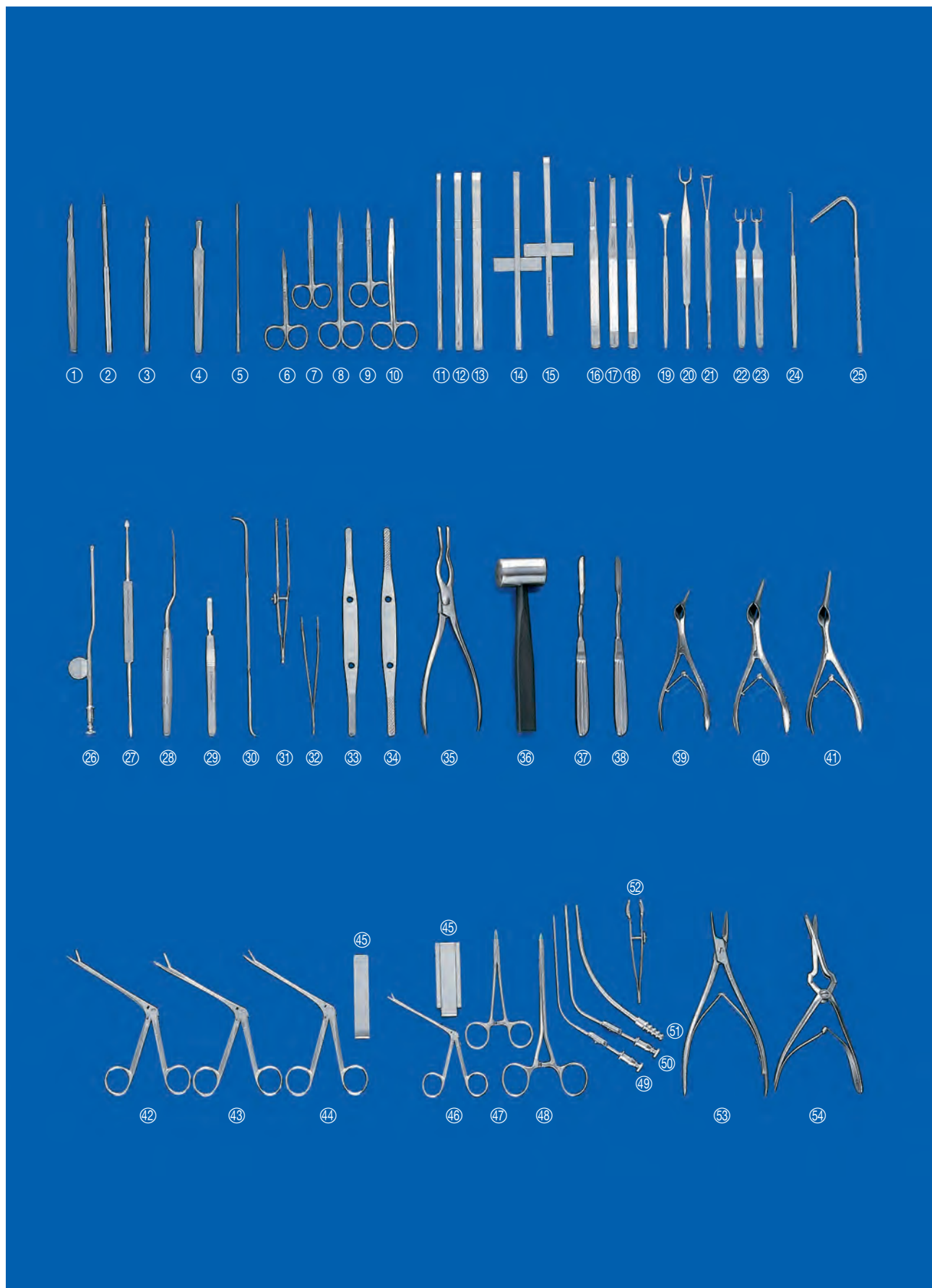
 39751 A2 **Sterilization Container**, with MicroStop®

 39763 A2 **Coding Label**

 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Set for Rhinoplasty



Basic Set for Rhinoplasty

| | | |
|---|-----------|---|
| ① | 496400 | MASING Surgical Handle |
| | 208015 | Blade , Fig. 15, non-sterile, package of 100 (not illustrated) |
| | 208011 | Same , Fig. 11 (not illustrated) |
| ② | 496500 | Surgical Handle , for miniature blades, round, length 15.5 cm |
| | 496764 | Miniature Blade , Fig. 64, round, sterile, package of 24 (not illustrated) |
| ③ | 496900 | MASING Nasal Knife |
| ④ | 493000 | COTTLE Nasal Knife , rounded edge, length 14 cm |
| ⑤ | 3x 417013 | Cotton Applicators , triangular serrated, length 15 cm |
| ⑥ | 511210 | Scissors , extra delicate, curved, length 10 cm |
| ⑦ | 513410 | COTTLE Scissors , curved, length 10.5 cm |
| ⑧ | 511414 | JOSEPH Scissors , curved, length 14 cm |
| ⑨ | 513200 | WALTER Scissors , angled, length 10 cm |
| ⑩ | 513700 | FOMON Dorsal Scissors , angular, working length 6.5 cm |
| ⑪ | 484004 | COTTLE Chisel , flat, width 4 mm |
| ⑫ | 484007 | Same , width 7 mm |
| ⑬ | 484009 | Same , width 9 mm |
| ⑭ | 484206 | COTTLE Crossbar Osteotome , graduated, straight |
| ⑮ | 484406 | Same , curved |
| ⑯ | 484800 | MASING Chisel , straight |
| ⑰ | 484700 | Same , curved to left |
| ⑱ | 484600 | Same , curved to right |
| ⑲ | 498400 | COTTLE Retractor |
| ⑳ | 505700 | COTTLE Retractor , double-ended |
| ㉑ | 505800 | NEIVERT Retractor , double-ended, made of wire, length 18 cm |
| ㉒ | 505100 | COTTLE Retractor , 2 prongs, blunt prong on left |
| ㉓ | 505000 | Same , blunt prong on right |
| ㉔ | 499101 | Hook , one prong, sharp curve, length 16.5 cm |
| ㉕ | 506400 | AUFRICHT Nasal Retractor |
| ㉖ | 479800 | Suction Elevator , with stylet |
| ㉗ | 479000 | MASING Elevator , double-ended |
| ㉘ | 478100 | JOSEPH-MASING Raspatory |
| ㉙ | 478305 | McKENTY Raspatory , width 5 mm |
| ㉚ | 479200 | COTTLE Elevator , double-ended |
| ㉛ | 534015 | COTTLE Lower Lateral Forceps , bayonet-shaped |
| ㉜ | 533212 | ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm |
| ㉝ | 523600 | Nasal Rasp , double-ended, fine |
| ㉞ | 523700 | Nasal Rasp , double-ended, coarse |
| ㉟ | 528800 | WALSHAM Septum Straightening Forceps |
| ㊱ | 174200 | COTTLE Metal Mallet |
| ㊲ | 523000 | JOSEPH Saw , bayonet-shaped, right |
| ㊳ | 523100 | Same , left |
| ㊴ | 403655 | COTTLE Nasal Speculum , blade length 55 mm, length 13 cm |
| ㊵ | 403575 | KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 75 mm, length 13.5 cm |
| ㊶ | 403590 | Same , blade length 90 mm |
| ㊷ | 456001 | BLAKESLEY Nasal Forceps , size 1 |
| ㊸ | 456003 | Same , size 3 |
| ㊹ | 458000 | WATSON-WILLIAMS Nasal Forceps , serrated |
| ㊺ | 523900 | COTTLE Bone Crusher , with clip |
| ㊻ | 517000 | MASING Needle Holder , ear forceps shape |
| ㊼ | 516513 | NEIVERT-MASING Needle Holder , length 13 cm |
| ㊽ | 515017 | Needle Holder , extra delicate, length 17 cm |
| ㊾ | 529207 | FRAZIER Suction Tube , outer diameter 7 Fr./2 mm, working length 10 cm, total length 17.5 cm |
| ㊿ | 529209 | Same , outer diameter 9 Fr./3 mm |
| ① | 529105 | Suction Tube , curved, outer diameter 5 mm |
| ② | 534500 | COTTLE Columella Clamp , length 11 cm |
| ③ | 469000 | KAZANIJAN Nasal Hump Forceps , length 20 cm |
| ④ | 468000 | JANSEN-MIDDLETON Septum Forceps , working length 10 cm |

Accessories recommended for containers (not illustrated):

 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

 39751 A2 **Sterilization Container**, with MicroStop®

 39763 A2 **Coding Label**

 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

BERGHAUS Instrument Set for Septo-Rhinoplasty



BERGHAUS Instrument Set for Septo-Rhinoplasty

- ① 488002 COTTLE **Nasal Speculum**, extra slender, without set screw, special matt finish, blade length 35 mm, length 13 cm
- ② 488003 **Same**, blade length 55 mm
- ③ 488004 **Same**, blade length 75 mm
- ④ 488018 KILLIAN-CLAUS **Septum Chisel**, with V-shaped cutting edge, special matt finish, width 5 mm, length 16.5 cm
- ⑤ 488010 RUBIN **Osteotome**, flat, straight, double-edged grinding, rounded corners, with finger grip for osteotome guidance, special matt finish, width 10 mm, length 16.5 cm
- ⑥ 488012 **Same**, width 12 mm
- ⑦ 488014 **Same**, width 14 mm
- ⑧ 488022 **Chisel**, with finger button, flat, special matt finish, width 2 mm, length 18 cm
- ⑨ 488023 **Same**, width 3 mm
- ⑩ 488024 **Same**, width 4 mm
- ⑪ 488030 **Marking Instrument**, for nasal tip, with ball and half cup, straight, special matt finish, length 11 cm
- ⑫ 488032 HEYMANN **Nasal Scissors**, medium size, special matt finish, working length 9.5 cm
- ⑬ 488034 CRAIG **Septum Forceps**, straight, special matt finish, working length 9 cm
- ⑭ 488041 BLAKESLEY **Nasal Forceps**, slender, straight, special matt finish, size 1, working length 11 cm
- ⑮ 488038 RUBIN **Septum Morcelizer**, double action, straight, special matt finish, length 20 cm
- ⑯ 488036 BECKER-CAPLAN **Septum Scissors**, double action, serrated, slender, special matt finish, working length 9.5 cm
- ⑰ 488044 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, slender, special matt finish, length 16 cm
- ⑱ 488045 ADSON-BROWN **Forceps**, micro-model, atraumatic, fine side grasping teeth, special matt finish, length 12 cm
- ⑲ 488046 ADSON **Tissue Forceps**, atraumatic, fine side grasping teeth, special matt finish, length 15 cm
- ⑳ 488047 ADSON **Tissue Forceps**, 1 x 2 teeth, length 12 cm
- ㉑ 488049 KILNER **Scissors**, curved, with tungsten carbide inserts, flat end, sharp/sharp, extra delicate, special matt finish, length 13.5 cm
- ㉒ 488048 KILNER **Scissors**, curved, sharp/sharp, special matt finish, length 13.5 cm
- ㉓ 488050 KILNER **Scissors**, curved, flat end, blunt/blunt, special matt finish, length 15.5 cm
- ㉔ 488054 AUFRICHT **Nasal Retractor**, with side protector, special matt finish, length 16.5 cm
- ㉕ 488060 **Ala Double Hook**, with octagonal handle, with 2 sharp points, strongly curved, special matt finish, width 2 mm, length 16.5 cm
- ㉖ 488056 KILNER **Ala Retractor**, two sharp points with button, special matt finish, width 10 mm, length 8.5 cm
- ㉗ 488058 **Same**, width 13 mm
- ㉘ 488084 FERGUSON **Suction Tube**, with cut-off hole and stylet, LUER, special matt finish, outer diameter 8 Fr., working length 11 cm
- ㉙ 488085 **Same**, outer diameter 10 Fr.
- ㉚ 488086 **Same**, outer diameter 12 Fr.
- ㉛ 488065 BERGHAUS **Ala Guiding Set**
- ㉜ 488070 JOSEPH **Elevator**, slightly curved, special matt finish, width 4 mm, length 17.5 cm
- ㉝ 488071 **Same**, strongly curved, width 3.4 mm
- ㉞ 488090 **Scalpel Handle**, No. 3, special matt finish, length 12.5 cm
- ㉟ 488074 FREER **Elevator**, double-ended, sharp and blunt, special matt finish, length 20 cm
- ㊱ 488078 **Nasal Rasp**, double-ended, coarse, special matt finish, length 21.5 cm
- ㊲ 488076 AUFRICHT **Glabella Rasp**, double-ended, backward cutting, length 20.5 cm
- ㊳ 488080 RYDER **Needle Holder**, tungsten carbide inserts, extra delicate and flat, special matt finish, length 18 cm
- ㊴ 439300 BERGHAUS **Metal Nasal Mirror**
- 174200 COTTLE **Metal Mallet**, length 18 cm (not illustrated)
- 231000 **Hone**, "ARKANSAS" oil stone, wedge-shaped, size 10 x 4 cm (not illustrated)

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

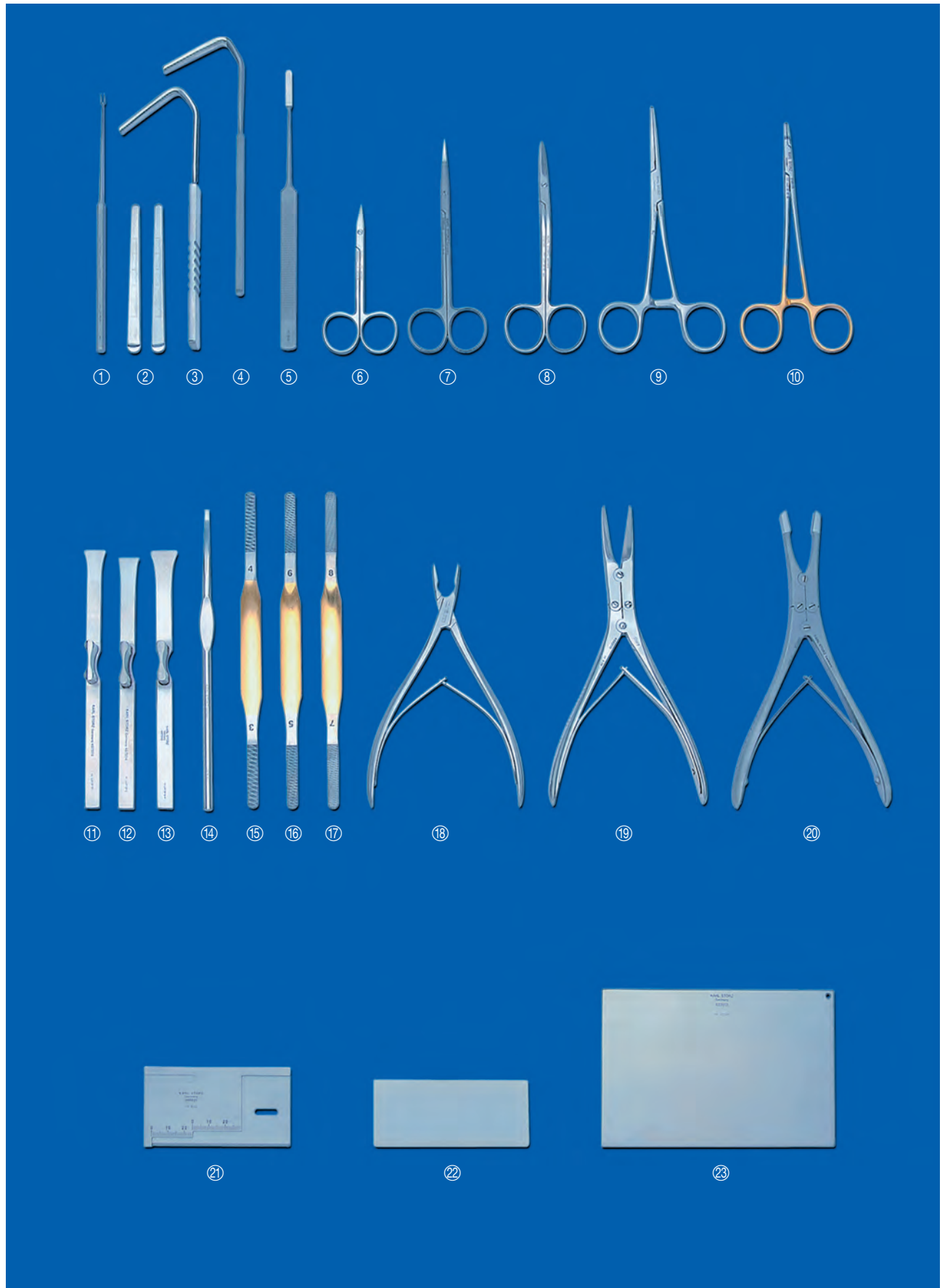
SIMMEN-BRINER Special Nasal Instrument Set



SIMMEN-BRINER Special Nasal Instrument Set

| | | | | | |
|---|-----------|---|--|--|---|
| ① | 7230 AA | HOPKINS® II Straight Forward Telescope 0° , enlarged view, diameter 4 mm, length 18 cm, autoclavable , fiber optic light transmission incorporated, color code: green | ③⑥ | 486103 SB | Osteotome , flat, double-edged grinding, width 3 mm, length 19 cm |
| ② | 723772 | STAMMBERGER Telescope Handle , round | ③⑦ | 486104 SB | Same , width 4 mm |
| ③ | 403835 | COTTLE Nasal Speculum , with set screw, blade length 35 mm, length 13 cm | ③⑧ | 486107 SB | Same , width 7 mm |
| ④ | 403855 | Same , blade length 55 mm | ③⑨ | 174200 | COTTLE Metal Mallet |
| ⑤ | 403875 | Same , blade length 75 mm | ④① | 844219 | Bipolar Coagulating Forceps , insulated, bayonet-shaped, blunt, tip 1 mm, length 19 cm |
| ⑥ | 403390 | KILLIAN-STRUJCKEN Nasal Speculum , with set screw, blade length 90 mm, length 15 cm | ④② | 839330 | BRINER Bipolar Suction Cannula , angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm |
| ⑦ | 810506 | Septum Needle , angular, LUER-Lock | ④③ | 847000 E | Bipolar High Frequency Cord , length 300 cm (not illustrated) |
| ⑧ | 208000 | Surgical Handle , Fig. 3, length 12.5 cm | ④④ | 839312 | SIMMEN Insulated Suction Cannula , distal with not insulated horn, outer diameter 3.5 mm |
| ⑨ | 208100 | Surgical Handle , Fig. 4, length 13.5 cm | ④⑤ | 839312 A | Same , outer diameter 4 mm |
| ⑩ | 748000 | Surgical Handle , Fig. 7, length 16.5 cm | ④⑥ | 839313 | Same , outer diameter 4.5 mm |
| ⑪ | 474000 | FREER Elevator , double-ended, length 20 cm | ④⑦ | 26005 M | Unipolar High Frequency Cord , length 300 cm (not illustrated) |
| ⑫ | 479000 | MASING Elevator , double-ended, length 22.5 cm | ④⑧ | 440000 | KRAUSE Nasal Snare , length 25 cm |
| ⑬ | 2x 499001 | KILNER-GILLIES Hook , one prong, small curve, length 17 cm | ④⑨ | 443500 | Nasal Snare Wires , diameter 0.3 mm, length 10 cm, package of 25 (not illustrated) |
| ⑭ | 499210 | JOSEPH Double Hook , sharp, width 10 mm, length 15 cm | ④⑩ | 523900 | COTTLE Bone Crusher , with clip |
| ⑮ | 791815 | REYNOLDS Dissecting Scissors , curved, length 15 cm | ④⑪ | 2x 794014 | ROCHESTER-PEAN Artery Forceps , straight, length 14 cm |
| ⑯ | 511615 | METZENBAUM-LAHEY Scissors , curved, length 15 cm | ④⑫ | 2x 535212 | HALSTEAD "Mosquito" Artery Forceps , curved, length 12.5 cm |
| ⑰ | 2x 533113 | ADSON Tissue Forceps , micro-model, 1 x 2 teeth, length 12 cm | ④⑬ | 2x 794214 | ROCHESTER-PEAN Artery Forceps , curved, length 14 cm |
| ⑱ | 533112 | ADSON Tissue Forceps , 1 x 2 teeth, length 12 cm | ④⑭ | 2x 535412 | HALSTEAD "Mosquito" Artery Forceps , straight, 1 x 2 teeth, length 12.5 cm |
| ⑲ | 793301 | Tissue Forceps , 1 x 2 teeth, standard width, length 13 cm | ④⑮ | 516015 | Needle Holder , tungsten carbide inserts, length 15 cm |
| ⑳ | 793403 | Tissue Forceps , 1 x 2 teeth, narrow, length 14.5 cm | ④⑯ | 515117 | Same , length 17 cm |
| ㉑ | 2x 533212 | ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm | ④⑰ | 791903 | MAYO Dissecting Scissors , straight, length 15 cm |
| ㉒ | 792303 | Dressing Forceps , narrow, length 13 cm | ④⑱ | 792003 | Same , curved |
| ㉓ | 792301 | Dressing Forceps , standard width, length 13 cm | ④⑲ | 748220 | DUPLAY Dressing and Sponge Holding Forceps , length 21 cm |
| ㉔ | 534015 | COTTLE Lower Lateral Forceps , with set screw, with teeth, length 15 cm | ④⑳ | 10x 796109 | Towel Forceps , length 9.5 cm |
| ㉕ | 426620 | GRÜNWALD Nasal Dressing Forceps , length 20 cm | ④㉑ | 810805 | Cup Medicine , 50 ccm, diameter 57 mm, height 47 mm (not illustrated) |
| ㉖ | 455500 | TAKAHASHI Nasal Forceps , working length 9.5 cm | ④㉒ | 810810 | Cup Medicine , 100 ccm, diameter 80 mm, height 30 mm (not illustrated) |
| ㉗ | 456002 | BLAKESLEY Nasal Forceps , size 2, working length 11 cm | Accessories recommended for containers (not illustrated): | | |
| ㉘ | 456003 | BLAKESLEY Nasal Forceps , size 3, working length 11 cm | 39502 Z | Wire Tray for Cleaning, Sterilization and Storage | |
| ㉙ | 449002 | HEYMANN Nasal Scissors , working length 9.5 cm | 39751 A2 | Sterilization Container , with MicroStop® | |
| ⑳ | 488034 | CRAIG Septum Forceps , working length 9 cm | 39763 A2 | Coding Label | |
| ㉑ | 204809 | FERGUSON Suction Tube , 9 Fr. | 39762 D2 | Color Tab , blue | |
| ㉒ | 204810 | Same , 10 Fr. | Further accessories for cleaning and sterilization | | |
| ㉓ | 204812 | Same , 12 Fr. | see catalog HYGIENE | | |
| ㉔ | 204815 | Same , 15 Fr. | | | |
| ㉕ | 479800 SB | Suction Raspatory , length 19.5 cm | | | |

SIMMEN-BRINER Special Rhinoplasty Set



SIMMEN-BRINER Special Rhinoplasty Set

| | | |
|---|-----------|---|
| ① | 488060 | Ala Double Hook , with octagonal handle, with 2 sharp points, width 2 mm, length 16.5 cm |
| ② | 2x 477098 | Ala Dilator , for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm |
| ③ | 506400 | AUFRICHT Nasal Retractor , length 16.5 cm |
| ④ | 488054 | AUFRICHT Nasal Retractor , with side protector, length 16.5 cm |
| ⑤ | 488070 | JOSEPH Raspatory , slightly curved, width 4 mm, length 17.5 cm |
| ⑥ | 489084 | Angular Scissors , extra delicate, length 9.5 cm |
| ⑦ | 488048 | KILNER Scissors , curved, sharp/sharp, length 13.5 cm |
| ⑧ | 513700 | FOMON Scissors , curved, working length 6.5 cm |
| ⑨ | 498822 | AIACH Cartilage Graft Forceps , length 15 cm |
| ⑩ | 516115 | RYDER Needle Holder , extra delicate, length 15 cm |
| ⑪ | 487012 | RUBIN Osteotome , width of cut 12 mm, length 16.5 cm |
| ⑫ | 487014 | Same , width of cut 14 mm |
| ⑬ | 487016 | Same , width of cut 16 mm |
| ⑭ | 486102 SB | Osteotome , width 2 mm, length 19 cm |
| ⑮ | 523834 | Nasal Rasp , tungsten carbide, Fig. 3 and 4 |
| ⑯ | 523856 | Same , Fig. 5 and 6 |
| ⑰ | 523878 | Same , Fig. 7 and 8 |
| ⑱ | 200600 | LEMPERT Rongeur , straight, length 15.5 cm |
| ⑲ | 469200 | ROWLAND-MEYER Nasal Hump Forceps , double joint, curved blades, length 20 cm |
| ⑳ | 488038 | RUBIN Septum Morcelizer , straight, length 20 cm |
| ㉑ | 498820 | AIACH Grid , size 90 x 50 mm |
| ㉒ | 231000 | Hone , "ARKANSAS" oil stone, wedge-shaped, size 10 x 4 cm |
| ㉓ | 523913 | Metal Tray , size 10 x 15 cm |

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

STAMMBERGER Basic FESS Set
 for Endoscopic Diagnosis and Surgery of Nasal Sinuses
 and Anterior Skull Base (MESSERKLINGER Technique)



8-942

STAMMBERGER Basic FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses
and Anterior Skull Base (MESSERKLINGER Technique)

| | | |
|---|-------------|--|
| ① | 723005 A | Trocar and Cannula for Sinoscopy , fenestrated beak, outer diameter 5 mm |
| ② | 400500 | HARTMANN Nasal Speculum , for adults, length 13 cm |
| ③ | 7230 AA | HOPKINS® II Straight Forward Telescope 0° , enlarged view, diameter 4 mm, length 18 cm |
| ④ | 723770 | STAMMBERGER Handle , flat |
| ⑤ | 723772 | Same , round |
| ⑥ | 7230 BA | HOPKINS® II Forward-Oblique Telescope 30° , enlarged view, diameter 4 mm, length 18 cm |
| ⑦ | 7230 FA | HOPKINS® II Forward-Oblique Telescope 45° , enlarged view, diameter 4 mm, length 18 cm |
| ⑧ | 7229 AA | HOPKINS® II Straight Forward Telescope 0° , enlarged view, diameter 2.7 mm, length 18 cm |
| ⑨ | 7229 BA | HOPKINS® II Forward-Oblique Telescope 30° , enlarged view, diameter 2.7 mm, length 18 cm |
| | 5x 723750 B | Protection Tube for Telescopes (not illustrated) |
| | 15006 B | "ULTRA-STOP" Antifog Solution , 25 ml, pipette bottle (not illustrated) |
| | 15006 C | Same , 30 ml, sterile pierce bottle (not illustrated) |
| ⑩ | 843219 | Bipolar Coagulating Forceps , with integrated suction channel for epistaxis, length 19 cm |
| | 847000 E | Bipolar High Frequency Cord , length 300 cm (not illustrated) |
| ⑪ | 461015 | STAMMBERGER Bipolar Suction Forceps , 45° upturned, with suction channel, working length 12.5 cm |
| | 847002 U | Bipolar High Frequency Cord , for connection to all current bipolar cables, length 40 cm (not illustrated) |
| ⑫ | 810506 | Septum Needle , angular, LUER-Lock |
| ⑬ | 628001 | Sickle Knife , pointed, length 19 cm |
| ⑭ | 474000 | FREER Elevator , double-ended, semisharp and blunt, length 20 cm |
| ⑮ | 628702 | Antrum Curette , oblong, small, length 19 cm |
| ⑯ | 628712 | KUHN-BOLGER Frontal Sinus Curette , curved 55° |
| ⑰ | 628714 | Same , curved 90° |
| ⑱ | 629703 | Antrum Curette , forward cutting, small, length 19 cm |
| ⑲ | 629820 | Probe , double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm |
| ⑳ | 479100 | COTTLE Elevator , length 20 cm |
| ㉑ | 722925 | Suction Tube , conical, malleable, outer diameter 2.5 mm |
| ㉒ | 529309 | FRAZIER Suction Tube , 9 Fr., working length 10 cm |
| ㉓ | 586125 | v. EICKEN Antrum Cannula , malleable, outer diameter 2.5 mm |
| ㉔ | 586130 | Same , outer diameter 3 mm |
| ㉕ | 586231 | v. EICKEN Antrum Cannula , outer diameter 3 mm |
| ㉖ | 586241 | Same , outer diameter 4 mm |
| ㉗ | 653000 | HEUWIESER Antrum Grasping Forceps , jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm |
| ㉘ | 456801 B | BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps , 90° upturned, size 1, working length 13 cm |
| ㉙ | 456501 B | BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps , 45° upturned, size 1, working length 13 cm |
| ㉚ | 456001 B | BLAKESLEY RHINOFORCE® II Nasal Forceps , straight, size 1, working length 13 cm |
| ㉛ | 449201 | RHINOFORCE® II Nasal Scissors , straight, working length 13 cm |
| ㉜ | 651010 | STAMMBERGER RHINOFORCE® II Forceps, cupped jaws , vertical opening, 65° upturned, cupped jaws diameter 3 mm, working length 12 cm |
| ㉝ | 651020 | Same , horizontal opening |
| ㉞ | 723033 | Biopsy and Grasping Forceps , extra fine, with oval cupped jaws 3 x 5 mm, sheath diameter 1.5 mm, working length 14 cm |
| ㉟ | 459052 | STAMMBERGER Antrum Punch , left side downward and forward cutting |
| ㊱ | 459051 | Same , right side downward and forward cutting |
| ㊲ | 459012 | STAMMBERGER RHINOFORCE® II Antrum Punch , left side backward cutting, working length 10 cm |
| ㊳ | 459011 | Same , right side backward cutting |
| ㊴ | 455010 | STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps , working length 13 cm |
| ㊵ | 460001 | STAMMBERGER Suction Punch , for biopsy and grasping, straight, with central suction channel, working length 10 cm |
| ㊶ | 460501 | Same , curved upwards |
| ㊷ | 723029 | Biopsy and Grasping Forceps , malleable, cupped jaws diameter 4 mm, working length 18 cm |
| ㊸ | 651050 | STAMMBERGER Punch , circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 4.5 mm, working length 18 cm |
| ㊹ | 651060 | STAMMBERGER Punch , circular cutting, 65° upturned, for frontal sinus recess, diameter 3.5 mm, working length 17 cm |

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

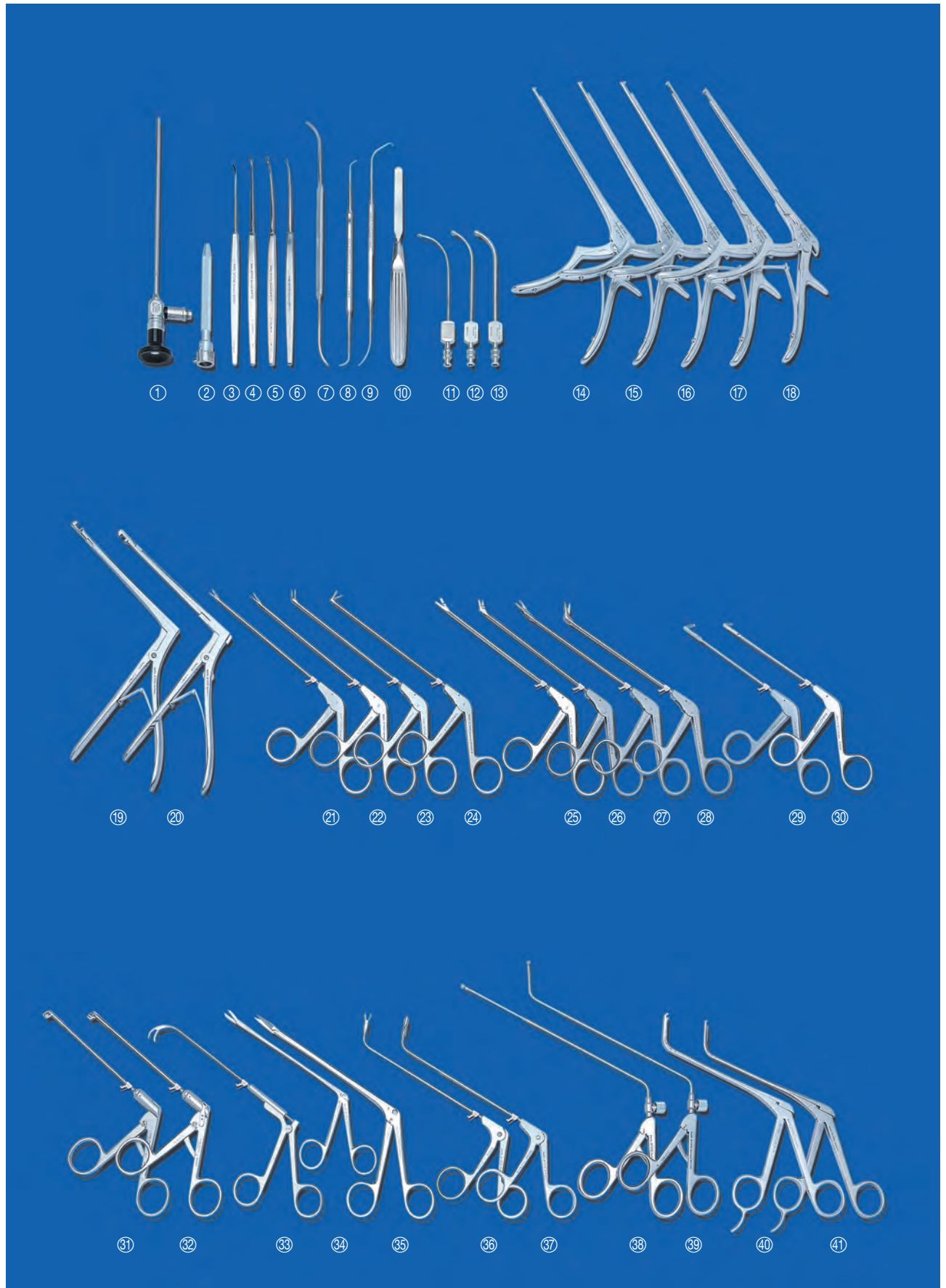
39751 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

SIMMEN-BRINER Special Paranasal Sinus Set



SIMMEN-BRINER Special Paranasal Sinus Set

- ① 7230 FLA **HOPKINS® II Forward-Oblique Telescope 45°**, enlarged view, diameter 4 mm, length 18 cm, autoclavable, connection for fiber optic light cable on the left, fiber optic light transmission incorporated, color code: black
- ② 723772 **STAMMBERGER Telescope Handle**, round
- ③ 628001 **Sickle Knife**, pointed, length 19 cm
- ④ 628702 **Antrum Curette**, length 19 cm
- ⑤ 628712 **KUHN-BOLGER Frontal Sinus Curette**, curved 55°, length 19 cm
- ⑥ 628714 **Same**, curved 90°
- ⑦ 489010 **Elevator**, double-ended, strongly and slightly curved, length 22 cm
- ⑧ 629820 **Probe**, double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
- ⑨ 629824 **CASTELNUOVO Frontal Sinus Probe**, curved, double-ended, length 22 cm
- ⑩ 213008 **PLESTER Elevator**, width 8 mm, length 18 cm
- ⑪ 2x 586125 v. **EICKEN Antrum Cannula**, LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
- ⑫ 586030 v. **EICKEN Antrum Cannula**, LUER-Lock, long curved, outer diameter 3 mm, length 12.5 cm
- ⑬ 586040 **Same**, outer diameter 4 mm
- ⑭ 662101 **KERRISON Bone Punch**, rigid, 90° upbiting, not through-cutting, size 1 mm, working length 17 cm
- ⑮ 662102 **Same**, size 2 mm
- ⑯ 662103 **Same**, size 3 mm
- ⑰ 662112 **Same**, 90° downbiting, size 2 mm
- ⑱ 662113 **Same**, 90° downbiting, size 3 mm
- ⑲ 649001 **HAJEK-KOFLER Sphenoid Punch**, size 3.5 x 3.7 mm, working length 14 cm
- ⑳ 649002 **Same**, 90° downbiting
- ㉑ 456001 B **BLAKESLEY RHINOFORCE® II Nasal Forceps**, straight, size 1, working length 13 cm
- ㉒ 456002 B **Same**, size 2
- ㉓ 456501 B **BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps**, 45° upturned, size 1, working length 13 cm
- ㉔ 456801 B **BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps**, 90° upturned, size 1, working length 13 cm
- ㉕ 451002 B **GRÜNWALD-HENKE RHINOFORCE® II Nasal Forceps**, straight, through-cutting, for a smooth cut, BLAKESLEY shape, size 2, width 4 mm, working length 13 cm
- ㉖ 451502 B **Same**, 45° upturned
- ㉗ 452002 B **MACKAY-GRÜNWALD RHINOFORCE® II Nasal Forceps**, sharp, straight, through-cutting, extra delicate, for a smooth cut, 11.5 x 3.5 mm, size 2, working length 13 cm
- ㉘ 452502 B **Same**, 45° upturned
- ㉙ 459010 **STAMMBERGER RHINOFORCE® II Antrum Punch**, upside backward cutting, working length 10 cm
- ㉚ 459030 **STAMMBERGER RHINOFORCE® II Antrum Punch**, small pediatric size, upside backward cutting, working length 10 cm
- ㉛ 459051 **STAMMBERGER Antrum Punch**, right side downward and forward cutting, working length 10 cm
- ㉜ 459052 **Same**, left side downward and forward cutting
- ㉝ 653000 **HEUWIESER Antrum Grasping Forceps**, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
- ㉞ 449251 **ZÜRICH Nasal Scissors**, straight, small model, cutting length 12 mm, working length 12 cm
- ㉟ 449250 **ZÜRICH Nasal Scissors**, straight, large model, cutting length 18 mm, working length 14 cm
- ㊱ 650212 **Forceps**, cupped jaws, vertical opening, 70° upturned, cupped jaws diameter 4 mm, working length 12 cm
- ㊲ 650222 **Same**, horizontal opening
- ㊳ 651055 **STAMMBERGER Punch**, circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, working length 18 cm
- ㊴ 651060 **STAMMBERGER Punch**, circular cutting, 65° upturned, diameter 3.5 mm, working length 17 cm
- ㊵ 651522 **Frontal Sinus Punch**, with link chain sheath 70° upturned, medium (standard size), jaws 3 x 3.5 mm, working length 13 cm
- ㊶ 651521 **Same**, small, jaws 2.5 x 2 mm

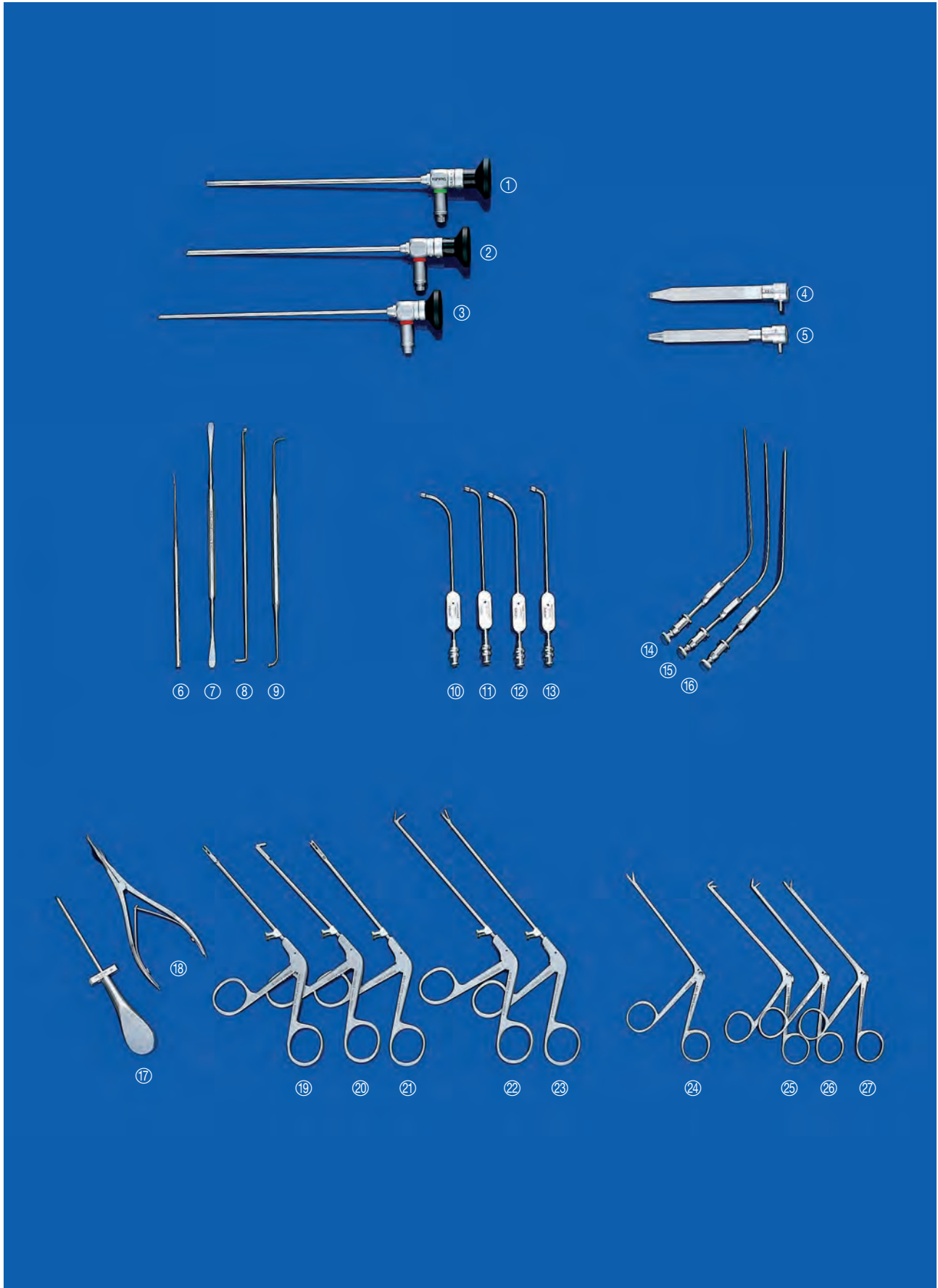
Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Pediatric FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses
and Anterior Skull Base (MESSERKLINGER Technique)



Basic Pediatric FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses
and Anterior Skull Base (MESSERKLINGER Technique)

Pediatric Set recommended by Prof. WOLF and Prof. STAMMBERGER

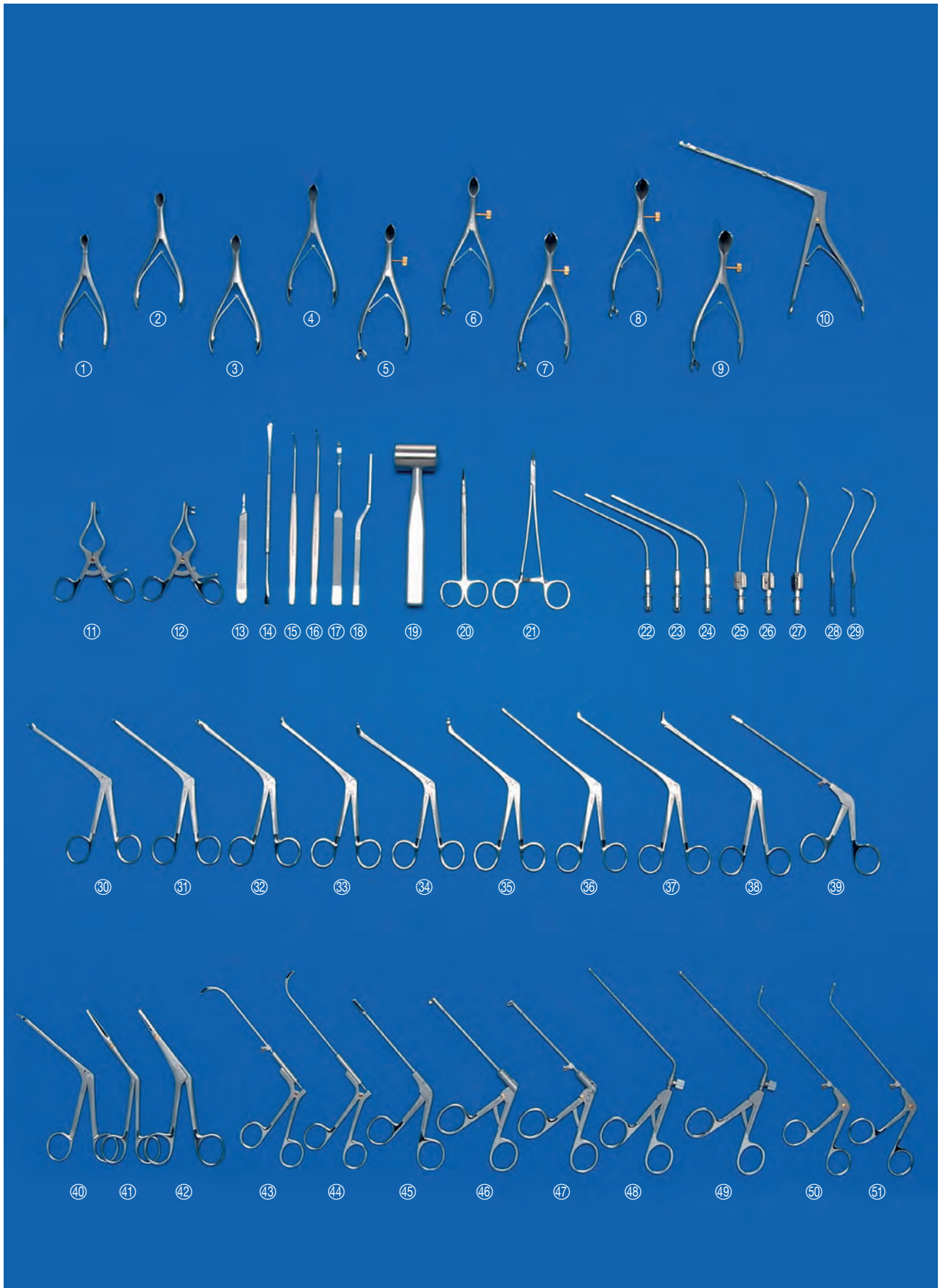
- ① 7230 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ② 7230 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- ③ 7229 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- ④ 723770 **STAMMBERGER Handle**, flat, for use with HOPKINS® II Telescope 7230 AA
- ⑤ 723772 **Same**, round, for use with HOPKINS® II Telescopes 7230 BA and 7229 BA
- ⑥ 223300 **PLESTER Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- ⑦ 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- ⑧ 628720 **Curette**, double-ended, oval, one side with short 45° curve, semisharp, diameter 2.2 mm, the other side with long 90° curve, sharp, diameter 2.7 mm, length 19 cm
- ⑨ 629820 **Probe**, double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
- ⑩ 586026 v. **EICKEN Antrum Cannula**, with cut-off hole, long curved, outer diameter 2.5 mm
- ⑪ 586226 **Same**, short curved
- ⑫ 586031 v. **EICKEN Antrum Cannula**, with cut-off hole, long curved, outer diameter 3 mm
- ⑬ 586231 **Same**, short curved
- ⑭ 529305 **FRAZIER Suction Tube**, with distance markings, 5 Fr.
- ⑮ 529307 **Same**, 7 Fr.
- ⑯ 529309 **Same**, 9 Fr.
- ⑰ 723103 B **Trocar for Sinoscopy**, oblique beak, outer diameter 3.3 mm, for use with HOPKINS® II Telescope 7229 BA
- ⑱ 400600 **HARTMANN Nasal Speculum**, for children, length 13 cm
- ⑲ 459032 **STAMMBERGER RHINOFORCE® II Antrum Punch**, small pediatric size, slender, left side backward cutting, with cleaning connector, working length 10 cm
- ⑳ 459030 **Same**, upside backward cutting
- ㉑ 459031 **Same**, right side backward cutting
- ㉒ 456500 B **BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps**, 45° upturned, size 0, with cleaning connector, working length 13 cm
- ㉓ 456000 B **BLAKESLEY RHINOFORCE® II Nasal Forceps**, straight, size 0, with cleaning connector, working length 13 cm
- ㉔ 634826 **BELLUCCI Scissors**, straight, working length 12.5 cm
- ㉕ 634825 B **STRÜMPEL Forceps**, with oval, fenestrated cupped jaws, 90° upturned, working length 12.5 cm
- ㉖ 634825 A **Same**, 45° upturned
- ㉗ 634824 **Same**, straight

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39740 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

BERGHAUS Instrument Set for Microscopic Surgery of the Paranasal Sinuses



BERGHAUS Instrument Set for Microscopic Surgery of the Paranasal Sinuses

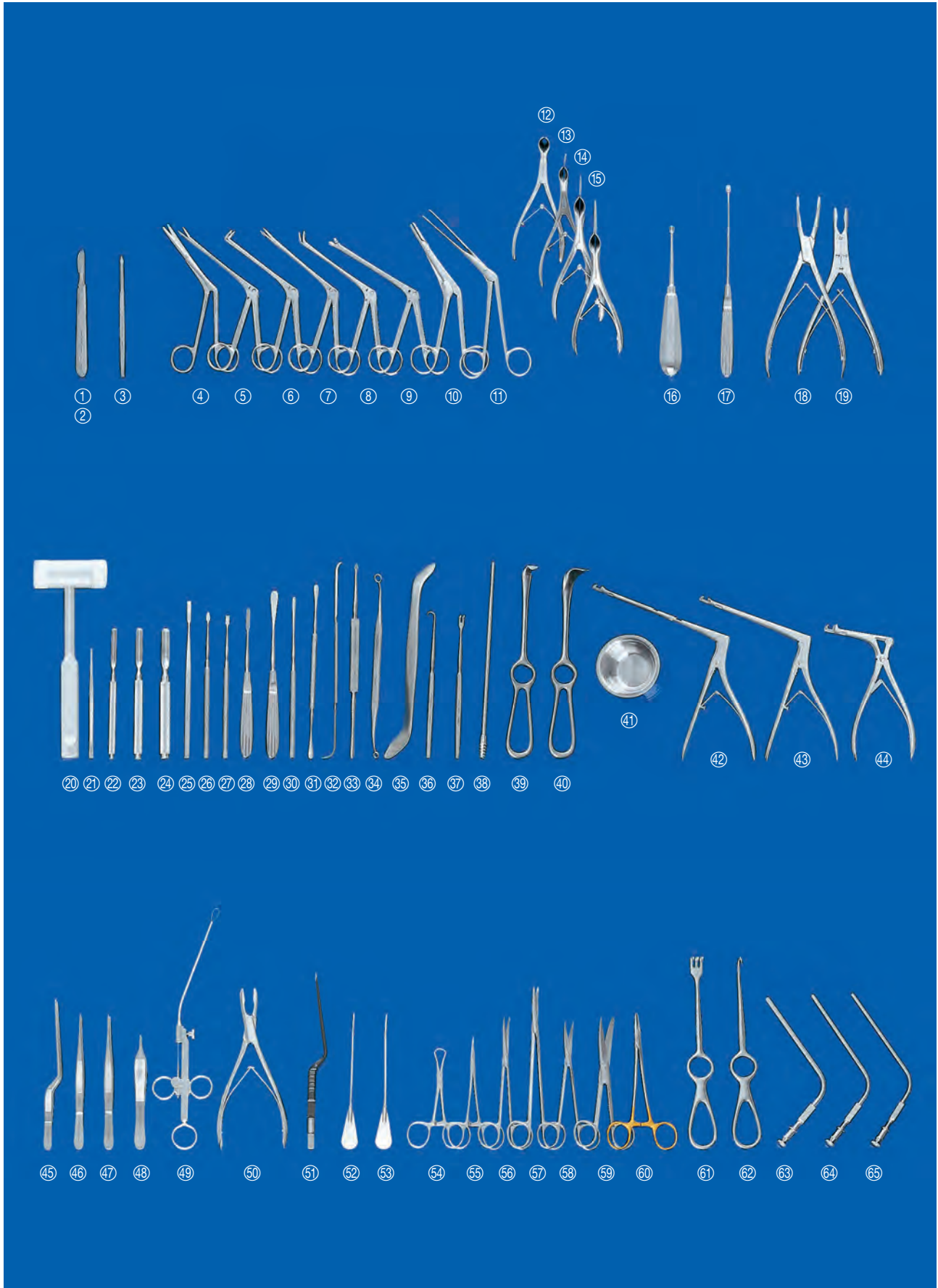
- | | | | | | |
|---|--------|---|----|----------|---|
| ① | 488005 | Nasal Speculum , for children, length 13 cm | ③① | 488042 | BLAKESLEY Nasal Forceps , straight, size 2, working length 11 cm |
| ② | 488002 | COTTLE Nasal Speculum , extra slender, without set screw, special matt finish, blade length 35 mm, length 13 cm | ③② | 488043 | Same , size 3 |
| ③ | 488003 | Same , blade length 55 mm | ③③ | 488141 | BLAKESLEY-WILDE Nasal Forceps , 45° upturned, size 1, working length 11 cm |
| ④ | 488004 | Same , blade length 75 mm | ③④ | 488142 | Same , size 2 |
| ⑤ | 488001 | KILLIAN-STRUYCKEN Nasal Speculum , with set screw and adaption for Flexible Tension Arm 723018, 75 mm, length 15 cm | ③⑤ | 488143 | Same , size 3 |
| ⑥ | 488000 | Same , 55 mm | ③⑥ | 488137 | TAKAHASHI Nasal Forceps , straight, delicate, oval cupped jaws, length 12.5 cm |
| ⑦ | 488007 | RUDERT Nasal Speculum , for adults, 15 cm, with set screw and adaption for Flexible Tension Arm 723018, left blade 65 mm long and 15 mm wide, right blade 50 mm long and with 3 mandrels | ③⑦ | 488135 | WATSON-WILLIAMS Nasal Forceps , 45° upturned, delicate, oval cupped jaws, length 12.5 cm |
| ⑧ | 488006 | Same , right blade 65 mm long and 15 mm wide, left blade 50 mm long and with 3 mandrels | ③⑧ | 488139 | Nasal Cutting Forceps , 60° upturned, through-cutting, reverse cutting, working length 12.5 cm |
| ⑨ | 488009 | Same , left blade 75 mm long and 15 mm wide | ③⑨ | 488152 B | GRÜNWALD-HENKE RHINOFORCE® II Nasal Forceps , straight, through-cutting, for a smooth cut, BLAKESLEY shape, size 2, width 4 mm, working length 13 cm |
| | 488008 | Same , right blade 75 mm long and 15 mm wide, left blade 50 mm long and with 3 mandrels (not illustrated) | ④① | 488133 | Nasal Scissors , light model, length of blades 10 mm, serrated, curved to left, working length 11 cm |
| | 723017 | Rotating Clamp (not illustrated) | | 488132 | Same , curved to right (not illustrated) |
| | 723018 | Flexible Tension Arm (not illustrated) | ④② | 488032 | HEYMANN Nasal Scissors , medium size, special matt finish, working length 9.5 cm |
| ⑩ | 488160 | HAJEK-KOFLER Sphenoid Punch , not through-cutting, reversible, size 3.2 mm x 4 mm, working length 17 cm | ④③ | 488034 | CRAIG Septum Forceps , straight, special matt finish, working length 9 cm |
| ⑪ | 488102 | PLESTER Retractor , 2 blades on left, full blade on right, length 11 cm | ④④ | 488180 | HEUWIESER Antrum Forceps , fixed jaw curved 90°, movable jaw backward opening, working length 10 cm |
| ⑫ | 488101 | Same , 2 prongs on right, full blade on left, length 11 cm | ④⑤ | 488181 | HEUWIESER Grasping Forceps , fixed jaws, curved upwards 90°, movable jaw opening backwards up to 120°, working length 10 cm |
| ⑬ | 488090 | Scalpel Handle , No. 3, special matt finish, length 12.5 cm | ④⑥ | 488170 | STAMMBERGER RHINOFORCE® II Antrum Punch , upside backward cutting, working length 10 cm |
| ⑭ | 488074 | FREER Elevator , double-ended, sharp and blunt, special matt finish, length 20 cm | ④⑦ | 488174 | STAMMBERGER Antrum Punch , right side downward and forward cutting, working length 10 cm |
| ⑮ | 488110 | KUHN-BOLGER Frontal Sinus Curette , 90° curved, oval, forward cutting, length 19 cm | ④⑧ | 488175 | Same , left side downward and forward cutting |
| ⑯ | 488111 | Same , 55° curved | ④⑨ | 488190 | STAMMBERGER Punch , circular cutting, diameter 3.5 mm, working length 13.5 cm |
| ⑰ | 488071 | JOSEPH Elevator , strongly curved, special matt finish, width 3.4 mm, length 17.5 cm | ⑤① | 488192 | Same , diameter 4.5 mm |
| ⑱ | 488018 | KILLIAN-CLAUS Septum Chisel , with V-shaped cutting edge, special matt finish, width 5 mm, length 16.5 cm | ⑤② | 488197 | KUHN-BOLGER Forceps , cupped jaws, horizontal opening, 55° upturned, jaws diameter 3 mm, working length 12 cm |
| ⑲ | 174200 | COTTLE Metal Mallet , length 18 cm | ⑤③ | 488195 | Same , vertical opening |
| ⑳ | 488050 | KILNER Scissors , curved, flat end, blunt/blunt, special matt finish, length 15.5 cm | | | |
| ㉑ | 488080 | RYDER Needle Holder , tungsten carbide inserts, extra delicate and flat, special matt finish, length 18 cm | | | |
| ㉒ | 488084 | FERGUSON Suction Tube , with cut-off hole and stylet, LUER, special matt finish, outer diameter 8 Fr., working length 11 cm | | | |
| ㉓ | 488085 | Same , outer diameter 10 Fr. | | | |
| ㉔ | 488086 | Same , outer diameter 12 Fr. | | | |
| ㉕ | 488117 | Suction Tube , for frontal sinus, with cut-off hole, LUER, outer diameter 2.5 mm, length 14.5 cm | | | |
| ㉖ | 488118 | Same , outer diameter 3 mm | | | |
| ㉗ | 488119 | Same , outer diameter 4 mm | | | |
| ㉘ | 488114 | RITTER Frontal Sinus Bougie , size 1, diameter 2.5 mm, length 14.5 cm | | | |
| ㉙ | 488115 | Same , size 2, diameter 3 mm | | | |
| ㉚ | 488041 | BLAKESLEY Nasal Forceps , slender, straight, special matt finish, size 1, working length 11 cm | | | |

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

**CALDWELL-LUC Basic Set
for Paranasal Sinus Surgery**



8-942

CALDWELL-LUC Basic Set for Paranasal Sinus Surgery

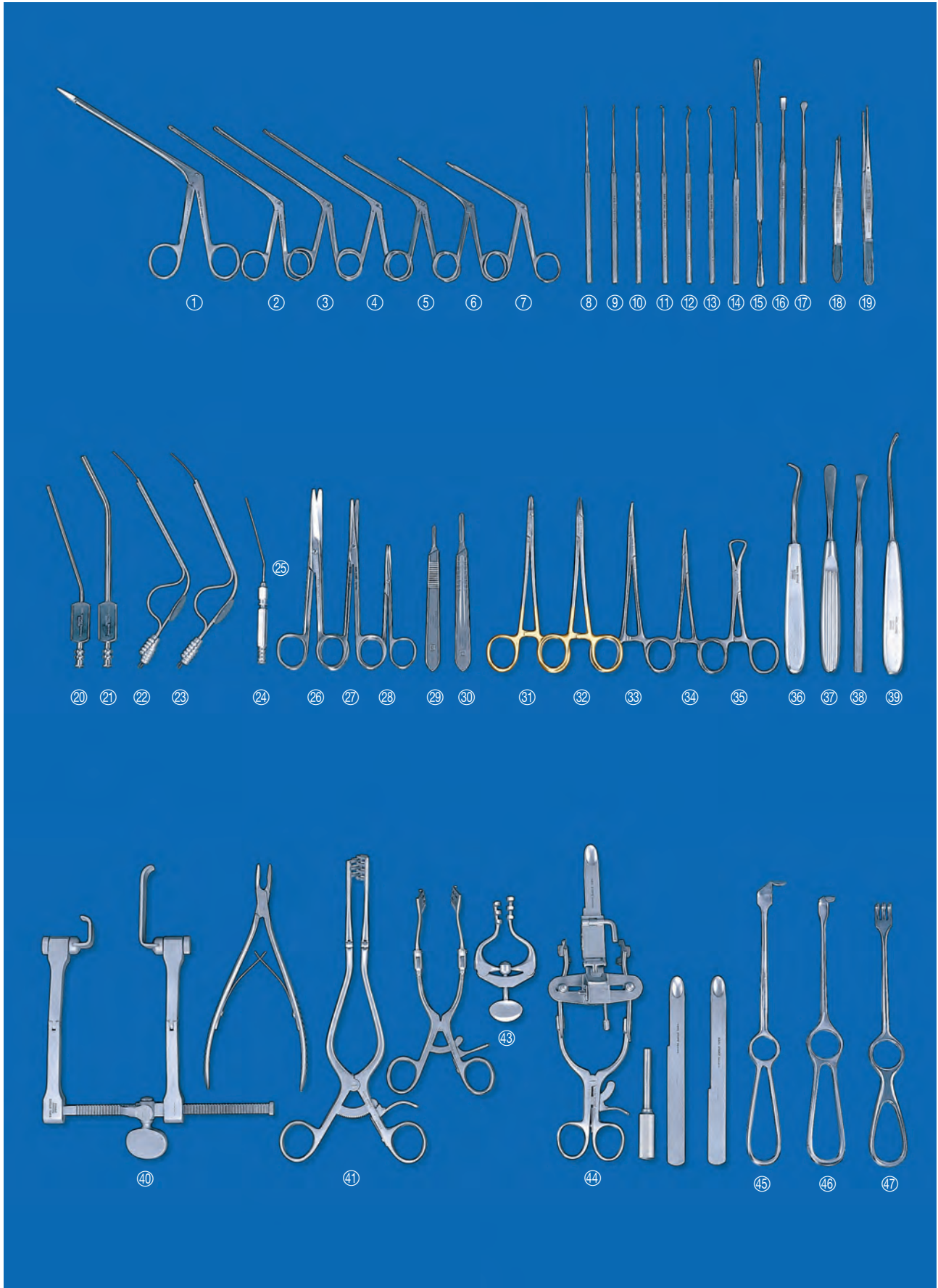
| | | | | | |
|---|-----------|--|----|-----------|--|
| ① | 208000 | Surgical Handle , Fig. 3, length 12.5 cm | ④③ | 649001 | HAJEK-KOFLER Sphenoid Punch , rigid, 90° upbiting, not through-cutting, size 3.5 x 3.7 mm, working length 14 cm |
| ② | 208010 | Blade , Fig. 10, non-sterile, package of 100 | | | |
| | 208011 | Same , Fig. 11 (not illustrated) | ④④ | 201503 | CITELLI Rongeur , size 3 |
| | 208015 | Same , Fig. 15 (not illustrated) | ④⑤ | 2x 426516 | JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm |
| ③ | 496800 | Nasal Knife , curved, length 13.5 cm | ④⑥ | 2x 792402 | Dressing Forceps , length 14.5 cm |
| ④ | 449002 | HEYMANN Nasal Scissors , medium | ④⑦ | 2x 793402 | Tissue Forceps , 1 x 2 teeth, length 14.5 cm |
| ⑤ | 456002 | BLAKESLEY Nasal Forceps , straight, size 2 | ④⑧ | 533212 | ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth |
| ⑥ | 456803 | BLAKESLEY-WILDE Nasal Forceps , 90° upturned, size 3 | ④⑨ | 440000 | KRAUSE Nasal Snare , length 25 cm |
| ⑦ | 456003 | BLAKESLEY Nasal Forceps , straight, size 3 | | 443500 | Package of Nasal Snare Wires , for 440000, standard size, diameter 0.3 mm, length 10 cm, package of 25 (not illustrated) |
| ⑧ | 456502 | BLAKESLEY-WILDE Nasal Forceps , 45° upturned, size 2 | ⑤⑩ | 200800 | LUER-HARTMANN Rongeur |
| ⑨ | 450001 | HARTMANN Nasal Cutting Forceps , round, size 1 | ⑤① | 844219 | Bipolar Coagulating Forceps |
| ⑩ | 466000 | CRAIG Septum Forceps , straight | ⑤② | 641525 | Bipolar High Frequency Cord for 844219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated) |
| ⑪ | 430300 | LUBET-BARBON Nasal Dressing Forceps | ⑤③ | 641530 | RITTER Frontal Sinus Bougie , size 1 |
| ⑫ | 400500 | HARTMANN Nasal Speculum , length 13 cm | ⑤④ | 8x 796011 | Same , size 2 |
| ⑬ | 403655 | COTTLE Nasal Speculum , blade length 55 mm, length 13 cm | ⑤⑤ | 6x 535212 | BACKHAUS Towel Forceps , length 11 cm |
| ⑭ | 403575 | KILLIAN-STRUYCKEN Nasal Speculum , blade length 75 mm, length 13.5 cm | ⑤⑥ | 511615 | HALSTEAD "Mosquito" Artery Forceps , curved |
| ⑮ | 403590 | Same , blade length 90 mm | ⑤⑦ | 752918 | METZENBAUM-LAHEY Scissors , curved, extra slender |
| ⑯ | 175802 | SPRATT Mastoid Curette , size 2 | ⑤⑧ | 511414 | METZENBAUM Scissors , curved, length 18 cm |
| ⑰ | 628501 | HALLE Antrum Curette , malleable, size 1 | ⑤⑨ | 791202 | JOSEPH Scissors , curved, length 14 cm |
| ⑱ | 201000 | JANSEN Rongeur , bayonet-shaped | ⑥① | 2x 516015 | Scissors , curved, pointed/blunt, length 14.5 cm |
| ⑲ | 201200 | LUER-RUSKIN Rongeur | ⑥② | 800403 | Needle Holder , tungsten carbide inserts, length 15 cm |
| ⑳ | 174800 | Metal Mallet , with plastic surfaces | ⑥③ | 800401 | VOLKMANN Retractors , sharp, 3 prongs, length 21 cm |
| ㉑ | 173202 | PASSOW Chisel , hemostatic, 2 x 2 mm | ⑥④ | 204815 | Same , 1 prong |
| ㉒ | 170505 | TRAUTMANN Mastoid Gauge , width 5 mm | ⑥⑤ | 204812 | FERGUSON Suction Tube , 15 Fr. |
| ㉓ | 170507 | Same , width 7 mm | | 204810 | Same , 12 Fr. |
| ㉔ | 170509 | Same , width 9 mm | | | Same , 10 Fr. |
| ㉕ | 634100 | WEST Chisel , width 4 mm | | | |
| ㉖ | 212000 | WULLSTEIN Elevator | | | |
| ㉗ | 477500 | FREER Raspatory , curved, width 4 mm, length 18 cm | | | |
| ㉘ | 478000 | JOSEPH Elevator | | | |
| ㉙ | 479408 | COTTLE Elevator , width 8 mm | | | |
| ㉚ | 477004 | HALLE Elevator , width 4 mm | | | |
| ㉛ | 474000 | FREER Elevator , double-ended | | | |
| ㉜ | 479200 | COTTLE Elevator , double-ended | | | |
| ㉝ | 479000 | MASING Elevator , double-ended | | | |
| ㉞ | 629500 | FAULKNER Antrum Curette | | | |
| ㉟ | 635000 | Orbital Retractor | | | |
| ㊱ | 2x 786001 | Retractor , sharp, one prong | | | |
| ㊲ | 2x 786002 | Same , two prongs | | | |
| ㊳ | 2x 203930 | Suction Tube , malleable, LUER, outer diameter 3 mm, length 22.5 cm | | | |
| ㊴ | 2x 801800 | LANGENBECK Retractors , 33 x 14 mm | | | |
| ㊵ | 2x 801600 | Same , 60 x 20 mm | | | |
| ㊶ | 2x 810806 | Cup Medicine , 60 ccm | | | |
| ㊷ | 2x 810810 | Same , 100 ccm (not illustrated) | | | |
| ㊸ | 648500 | HAJEK-KOFLER Sphenoid Punch , reversible | | | |

Accessories recommended for containers (not illustrated):

| | |
|----------|--|
| 39502 Z | Wire Tray for Cleaning, Sterilization and Storage |
| 39752 A2 | Sterilization Container , with MicroStop® |
| 39763 A2 | Coding Label |
| 39762 D2 | Color Tab , blue |

Further accessories for cleaning and sterilization
see catalog HYGIENE

**FISCH Special Set
for Lateral Skull Base Surgery**



11-03

FISCH Special Set for Lateral Skull Base Surgery

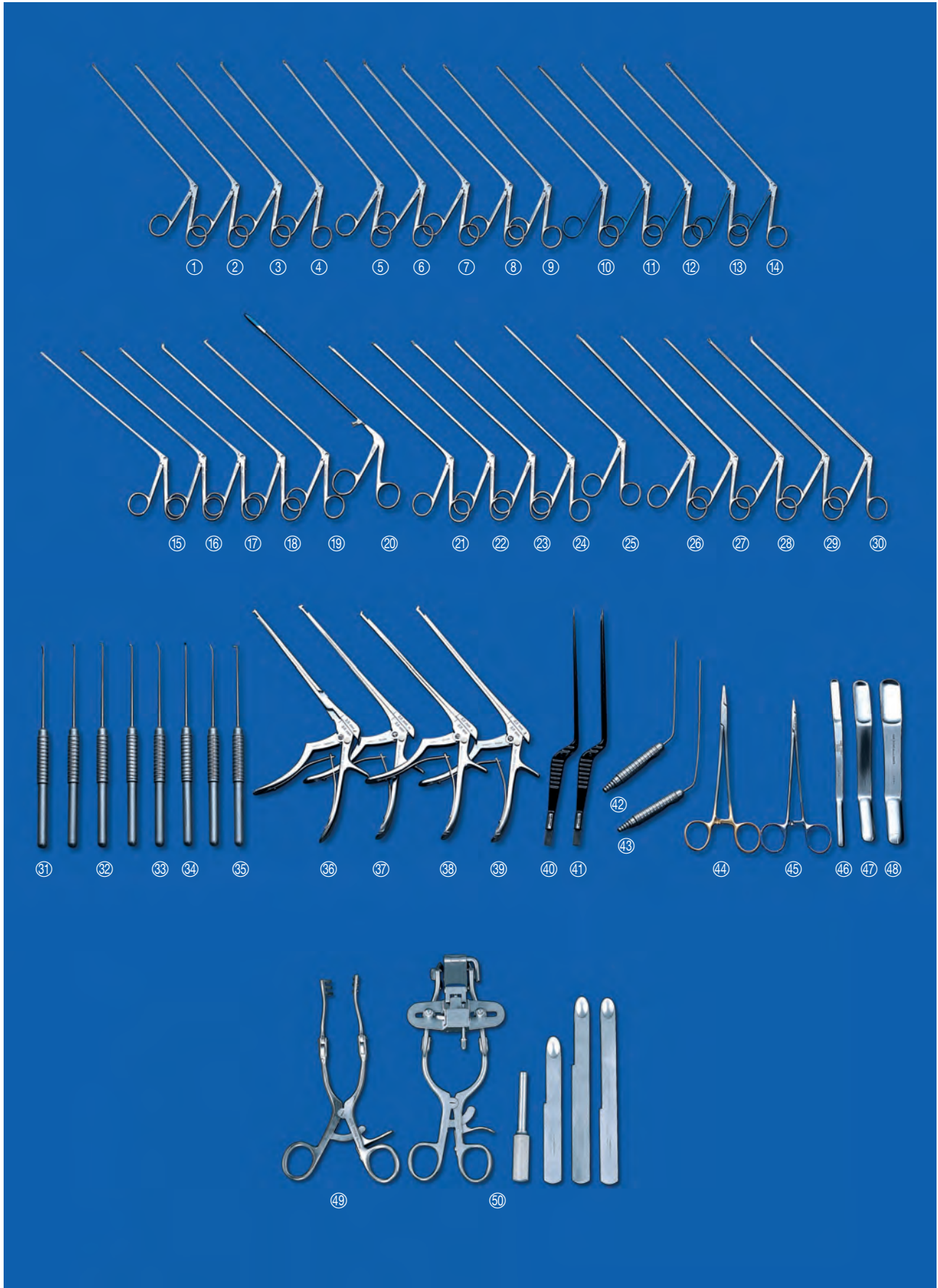
- ① 449250 **Nasal Scissors**, ZÜRICH model, straight, working length 14 cm
- ② 221454 **FISCH Ear Forceps**, round cupped jaws, diameter 3 mm, working length 12.5 cm
- ③ 634822 **HARTMANN Forceps**, with round cupped jaws, diameter 2.5 mm, working length 12.5 cm
- ④ 222650 **BELLUCCI Scissors**, delicate, straight, working length 12.5 cm
- ⑤ 162020 **HARTMANN Ear Forceps**, round cupped jaws, diameter 2 mm
- ⑥ 222801 **FISCH-DIETER Malleus Nipper**, width 0.8 mm, working length 8 cm
- ⑦ 222501 **FISCH-BELLUCCI Scissors**, extra delicate, blade length 7 mm, working length 8 cm
- ⑧ 225415 **Hook**, 45°, 1.5 mm, length 16 cm
- ⑨ 226301 **FISCH Tenotome**, sickle-shaped, extra delicate, length 16 cm
- ⑩ 226102 **FISCH Micro Raspatory**, single curved to left, length 16 cm
- ⑪ 226101 **Same**, single curve, to right
- ⑫ 226001 **Same**, double curve, to right
- ⑬ 226002 **Same**, double curve, to left
- ⑭ 499101 **Hook**, one prong, sharp curve, length 16.5 cm
- ⑮ 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- ⑯ 477500 **FREER Raspatory**, curved, width 4 mm, length 18 cm
- ⑰ 213005 **FISCH Dura Elevator**
- ⑱ 793303 F **Tissue Forceps**, toothed, 1 x 2 teeth, slender, soft spring, length 13 cm
- ⑲ 214000 F **WULLSTEIN Forceps**, serrated, length 15 cm
- ⑳ 204735 **FISCH Suction Tube**, outer diameter 3 mm
- ㉑ 204738 **Same**, outer diameter 5 mm
- ㉒ 206600 **FISCH Suction and Irrigation Tube**, cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
- ㉓ 206700 **Same**, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm
- ㉔ 204200 **FISCH Adaptor**, for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 5.5 cm
- ㉕ 204354 **Suction Tube**, angular, outer diameter 1 mm, working length 7 cm
- ㉖ 792026 **MAYO-LEXER Scissors**, tungsten carbide, length 16 cm
- ㉗ 511514 **METZENBAUM Scissors**, curved, length 14 cm
- ㉘ 213410 **FISCH Scissors**, extra delicate, curved, sharp/sharp, length 10.5 cm
- ㉙ 208000 **Surgical Handle**, Fig. 3, length 12.5 cm
- ㉚ 208100 **Surgical Handle**, Fig. 4, length 13.5 cm
- ㉛ 516015 **Needle Holder**, tungsten carbide inserts, length 15 cm
- ㉜ 516115 **RYDER Needle Holder**, extra delicate, length 15 cm
- ㉝ 536214 **Artery Forceps**, PROVIDENCE model, delicate, curved, length 14 cm
- ㉞ 535312 **HALSTEAD "Mosquito" Artery Forceps**, micro-model, curved, length 12.5 cm
- ㉟ 796011 **BACKHAUS Towel Forceps**, length 11 cm
- ㊱ 213015 **FISCH Periosteal Elevator**, sharp, angled, width 11 mm, length 21 cm
- ㊲ 169027 **JANSEN Elevator**, width 9 mm, length 17.5 cm
- ㊳ 213011 **FISCH Elevator**, sharp, width 10 mm, length 16 cm
- ㊴ 800005 **FISCH Aneurysm Needle**, length 20 cm
- ㊵ 219900 **FISCH Glomus Retractor**, size 21 x 16 cm
- ㊶ 219724 **Retractor**, articulated, 3 x 4 prongs, sharp, length 24 cm
- ㊷ 219717 **FISCH Retractor**, semisharp, length 17 cm
- ㊸ 215001 **JANSEN Retractor**, blunt
- ㊹ 219800 **FISCH Dura Retractor**, length 18 cm
- ㊺ 801708 **KOCHER-LANGENBECK Retractor**, size 65 x 14 mm, length 21.5 cm
- ㊻ 801702 **Same**, 35 x 8 mm
- ㊼ 800403 **VOLKMANN Retractor**, sharp, 3 prongs, length 21 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

DRAF Special Set for Lateral Skull Base Surgery



DRAF Special Set for Lateral Skull Base Surgery

- ① 662202 **Forceps**, straight, extra delicate, oval cupped jaws, width 0.6 mm, working length 15 cm
- ② 662203 **Same**, curved to right
- ③ 662204 **Same**, curved to left
- ④ 662205 **Same**, 45° upturned
- ⑤ 662231 **Forceps**, straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm
- ⑥ 662236 **Same**, curved to left
- ⑦ 662235 **Same**, curved to right
- ⑧ 662237 **Same**, 45° upturned
- ⑨ 662241 **Forceps**, straight, round cupped jaws, diameter 4 mm, working length 15 cm
- ⑩ 662210 **Forceps**, straight, not through-cutting, extra sharp, width 1.5 mm, working length 15 cm
- ⑪ 662212 **Same**, curved to right
- ⑫ 662213 **Same**, curved to left
- ⑬ 662214 **Same**, 45° upturned
- ⑭ 662215 **Same**, 90° upturned
- ⑮ 662221 **Forceps**, straight, not through-cutting, with oval, fenestrated spoon, width 1.5 mm, working length 15 cm
- ⑯ 662223 **Same**, curved to right
- ⑰ 662224 **Same**, curved to left
- ⑱ 662227 **Same**, 45° upturned
- ⑲ 662228 **Same**, 90° upturned
- ⑳ 662248 **BLAKESLEY Forceps**, straight, with oval, fenestrated cupped jaws, width 4 mm, working length 15 cm
- ㉑ 662251 **Miniature Forceps**, straight, through-cutting, working length 15 cm
- ㉒ 662255 **Same**, curved to right
- ㉓ 662256 **Same**, curved to left
- ㉔ 663257 **Same**, curved upwards
- ㉕ 662271 **Grasping Forceps**, straight, fine serrated, working length 15 cm
- ㉖ 662300 **Scissors**, straight, working length 15 cm
- ㉗ 662301 **Scissors**, straight, extra delicate, working length 15 cm
- ㉘ 662304 **Same**, curved to right
- ㉙ 662305 **Same**, curved to left
- ㉚ 662307 **Same**, 45° curved upwards
- ㉛ 663402 **Sickle Knife**, length 21.5 cm
- ㉜ 663482 **Hook**, with ball end, angled 90°, length 21.5 cm
- ㉝ 663413 **Round Knife**, angled 30°, oval, with round handle, 2.1 x 2.5 mm, length 21.5 cm
- ㉞ 663405 **Round Knife**, vertical, 4.5 x 3 mm, length 21.5 cm
- ㉟ 663463 **Sharp Curette**, oval, angled 60°, 2 x 3.2 mm
- ㊱ 662111 **KERRISON Bone Punch**, rigid, 90° downbiting, not through-cutting, size 1 mm, working length 17 cm
- ㊲ 662100 **Same**, 90° upbiting, size 0.5 mm
- ㊳ 662122 **Same**, upbiting 40° forward, size 2 mm
- ㊴ 662120 **Same**, upbiting 40° forward, size 0.7 mm
- ㊵ 844523 **Bipolar Coagulating Forceps**, insulated, bayonet-shaped, tip 0.7 mm, length 23 cm
- ㊶ 844623 **Same**, blunt, width of tip 1.2 mm
- 847000 E **Bipolar High Frequency Cord**, for 844523 and 844623, to KARL STORZ Coagulator AUTOCON® and Erbe Coagulator (not illustrated)
- ㊷ 663814 **Suction Tube**, angular, malleable, diameter 2 mm, working length 10 cm
- ㊸ 663818 **Same**, working length 13 cm
- ㊹ 798618 **HEGAR Needle Holder**, slender, tungsten carbide inserts, length 18 cm
- ㊺ 799016 **DRAF Micro Needle Holder**, with diamond coated jaws, length 16.5 cm
- ㊻ 662476 **OLIVECRONA Brain Spatula**, concave, elastic, width 7 and 9 mm, length 18 cm
- ㊼ 662477 **Same**, width 11 and 13 mm
- ㊽ 662478 **Same**, width 15 and 18 mm, complete

Additional instruments for transtemporal surgery

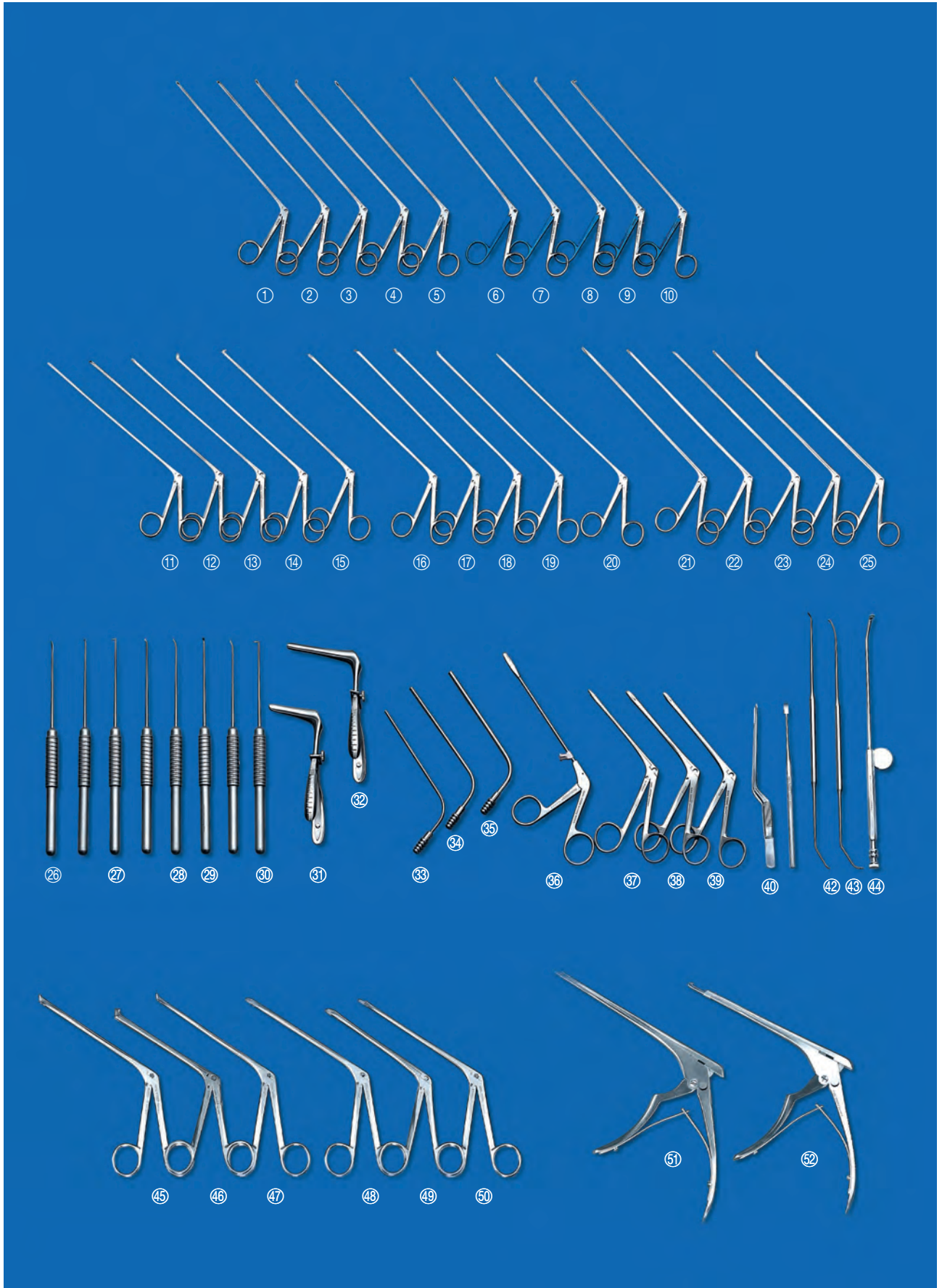
- ㊿ 219717 B **FISCH Retractor**, sharp, length 17 cm
- ① 219800 **FISCH Dura Retractor**, length 18 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

DRAF Special Set for Endonasal Anterior Skull Base Surgery



DRAF Special Set for Endonasal Anterior Skull Base Surgery

- ① 662231 **Forceps**, straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm
- ② 662235 **Same**, curved to right
- ③ 662236 **Same**, curved to left
- ④ 662237 **Same**, 45° upturned
- ⑤ 662241 **Forceps**, straight, with round cupped jaws, diameter 4 mm, working length 15 cm
- ⑥ 662210 **Forceps**, straight, not through-cutting, extra sharp, with oval, fenestrated spoon, width 1.5 mm, working length 15 cm
- ⑦ 662212 **Same**, curved to right
- ⑧ 662213 **Same**, curved to left
- ⑨ 662214 **Same**, 45° upturned
- ⑩ 662215 **Same**, 90° upturned
- ⑪ 662221 **Forceps**, straight, not through-cutting, with oval, fenestrated spoon, width 1.8 mm, working length 15 cm
- ⑫ 662223 **Same**, curved to right
- ⑬ 662224 **Same**, curved to left
- ⑭ 662227 **Same**, 45° upturned
- ⑮ 662228 **Same**, 90° upturned
- ⑯ 662251 **Miniature Forceps**, straight, through-cutting, working length 15 cm
- ⑰ 662255 **Same**, curved to right
- ⑱ 662256 **Same**, curved to left
- ⑲ 662257 **Same**, curved upwards
- ⑳ 662271 **Grasping Forceps**, fine serrated, working length 15 cm
- ㉑ 662300 **Scissors**, straight, working length 15 cm
- ㉒ 662301 **Scissors**, straight, extra delicate, working length 15 cm
- ㉓ 662304 **Same**, curved to right
- ㉔ 662305 **Same**, curved to left
- ㉕ 662307 **Same**, 45° upturned
- ㉖ 663402 **Sickle Knife**, length 21.5 cm
- ㉗ 663482 **Hook**, with ball end, angled 90°, length 21.5 cm
- ㉘ 663413 **Round Knife**, angled 30°, oval, 2.1 x 2.5 mm, length 21.5 cm
- ㉙ 663405 **Round Knife**, vertical, 4.5 x 3 mm, length 21.5 cm
- ㉚ 663463 **Curette**, sharp, oval, angled 60°, 2 x 3.2 mm
- ㉛ 403255 KILLIAN-STRUJCKEN **Nasal Speculum**, with set rack, blade length 55 mm
- ㉜ 403275 **Same**, blade length 75 mm
- ㉝ 203730 **Suction Tube**, diameter 3 mm, working length 11 cm
- ㉞ 203740 **Same**, outer diameter 4 mm
- ㉟ 203750 **Same**, outer diameter 5 mm
- ㊱ 449201 **RHINOFORCE® II Nasal Scissors**, straight, working length 13 cm
- ㊲ 456001 BLAKESLEY **Nasal Forceps**, size 1
- ㊳ 456003 **Same**, size 3
- ㊴ 456002 **Same**, size 2
- ㊵ 426516 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm
- ㊶ 477500 FREER **Raspatory**, curved, width 4 mm, length 18 cm
- ㊷ 28164 EB CASTELNUOVO **Elevator, double-ended**, blunt end slightly curved, length 26 cm
- ㊸ 28164 EC CASTELNUOVO **Elevator, double-ended**, semisharp end slightly curved, graduated, length 26 cm
- ㊹ 28164 ES CASTELNUOVO **Suction Elevator**, length 25 cm

Additional instruments: through-cutting nasal forceps

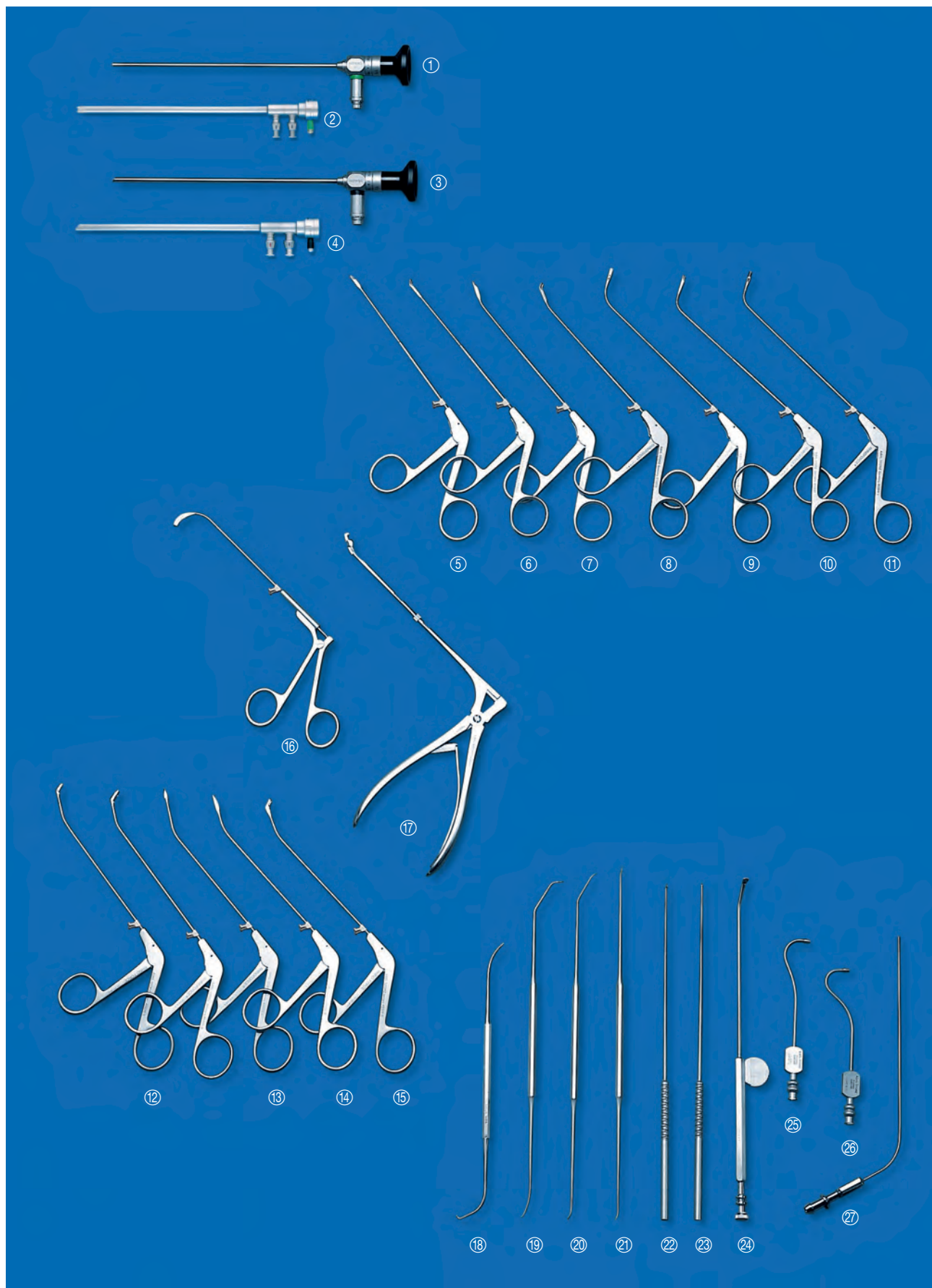
- ④⑤ 453710 **Nasal Cutting Forceps**, 45° upturned, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
- ④⑥ 453723 **Nasal Cutting Forceps**, 45° upturned, through-cutting, strong model, medium size, bite 2.75 x 6 mm, working length 10.5 cm
- ④⑦ 453721 **Same**, bite 1.5 x 4 mm, working length 12.5 cm
- ④⑧ 453508 **Nasal Cutting Forceps**, straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
- ④⑨ 453510 **Nasal Cutting Forceps**, straight, through-cutting, strong model, small, bite 2.5 x 6.5 mm, working length 10.5 cm
- ⑤⑩ 453509 **Same**, fine, bite 1.25 x 5 mm, working length 12.5 cm
- ⑤① 662102 KERRISON **Bone Punch**, rigid, 90° upbiting, not through-cutting, size 2 mm, working length 17 cm
- ⑤② 662103 **Same**, size 3 mm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

CASTELNUOVO Special Set for Endonasal Endoscopic Anterior Skull Base Surgery



CASTELNUOVO Special Set for Endonasal Endoscopic Anterior Skull Base Surgery

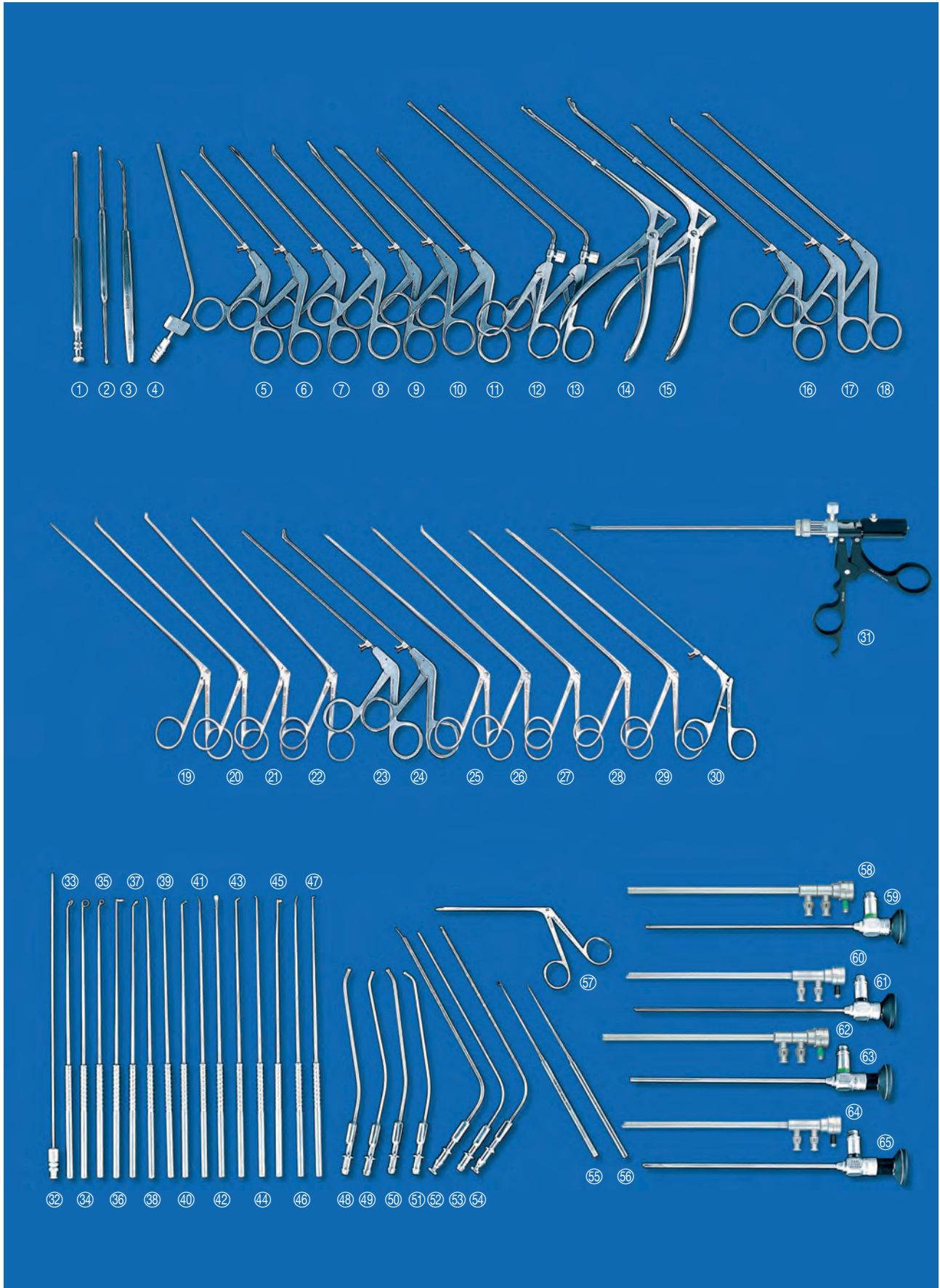
- ① 7230 AA **HOPKINS® II Straight Forward Telescope 0**, diameter 4 mm, length 18 cm
- ② 7230 AS **Irrigation Sheath**, for 7230 AA, for use with CLEARVISION® II System (see chapter 4, SINOSCOPY)
- ③ 7230 FA **HOPKINS® II Forward-Oblique Telescope 45°**, diameter 4 mm, length 18 cm
- ④ 7230 FS **Irrigation Sheath**, for 7230 FA, for use with CLEARVISION® II System (see chapter 4, SINOSCOPY)
- ⑤ 452831 **RHINOFORCE® II Miniature Nasal Forceps**, with extra fine flat jaws, through-cutting, straight jaws, width of cut 1.5 mm, working length 13 cm
- ⑥ 452832 **Same**, jaws 45° upturned
- ⑦ 452833 **Same**, sheath curved 30°, straight jaws
- ⑧ 452834 **Same**, jaws 45° angled upwards
- ⑨ 452841 R CASTELNUOVO **RHINOFORCE® II Miniature Nasal Forceps**, with extra fine flat jaws, through-cutting, 65° upturned, right side opening, width of cut 1.5 mm, working length 13 cm
- ⑩ 452841 **Same**, backward opening
- ⑪ 452841 L **Same**, left side opening
- ⑫ 451510 B CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, through-cutting, jaws 45° upturned, BLAKESLEY shape, width 3 mm, working length 13 cm
- ⑬ 456010 B BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, with straight jaws, width 3 mm, working length 13 cm
- ⑭ 451010 B CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, through-cutting, with straight jaws, BLAKESLEY shape, width 3 mm, working length 13 cm
- ⑮ 456510 B BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, jaw 45° upturned, width 3 mm, working length 13 cm
- ⑯ 653000 HEUWIESER **Antrum Grasping Forceps**, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
- ⑰ 648523 McKENTY-CASTELNUOVO **Sphenoid Punch**, tip curved 30°, through-cutting, reversible, size 1.6 x 2 mm, working length 17 cm
- ⑱ 629824 CASTELNUOVO **Frontal Sinus Probe, double-ended**, curved, length 22 cm
- ⑲ 28164 EC CASTELNUOVO **Elevator, double-ended**, blunt end angled, graduated, length 26 cm
- ⑳ 28164 EB CASTELNUOVO **Elevator, double-ended**, blunt end slightly curved, length 26 cm
- ㉑ 28164 EA CASTELNUOVO **Elevator, double-ended**, semisharp and blunt, length 26 cm
- ㉒ 28164 H CASTELNUOVO **Hook**, 90°, blunt, with round handle, length 25 cm
- ㉓ 28164 MP **Round Knife**, vertical, oval, with round handle, 3.5 x 2.5 mm, length 25 cm
- ㉔ 28164 ES CASTELNUOVO **Suction Elevator**, curved, length 25 cm
- ㉕ 586146 v. EICKEN-CASTELNUOVO **Antrum Cannula**, S-shaped, strongly curved, outer diameter 2.5 mm
- ㉖ 586145 **Same**, slightly curved
- ㉗ 649180 N FERGUSON-CASTELNUOVO **Suction Tube**, diameter 2 mm, working length 15 cm

Accessories recommended for containers (not illustrated):

- 2x 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

CASTELNUOVO-LOCATELLI Special Set for Endonasal Endoscopic Access to Sella Region



CASTELNUOVO-LOCATELLI Special Set for Endonasal Endoscopic Access to Sella Region

Instruments for nasal access

- ① 474001 FREER **Suction Elevator**, length 19 cm
- ② 479100 COTTLE **Elevator**
- ③ 628001 **Sickle Knife**, pointed
- ④ 722830 **Suction Tube**, outer diameter 3 mm
- ⑤ 456000 B BLAKESLEY **RHINOFORCE® II Nasal Forceps**, straight
- ⑥ 456500 B BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps**, 45° upturned
- ⑦ 451000 B GRÜNWARD-HENKE **RHINOFORCE® II Nasal Forceps**, straight, through-cutting
- ⑧ 451500 B **Same**, 45° upturned
- ⑨ 452001 B MACKAY-GRÜNWARD **RHINOFORCE® II Nasal Forceps**, through-cutting
- ⑩ 452831 **RHINOFORCE® II Miniature Nasal Forceps**, with extra fine flat jaws, straight
- ⑪ 452832 **Same**, jaws 45° upturned
- ⑫ 651055 STAMMBERGER **Punch**, circular cutting, diameter 3.5 mm, working length 18 cm
- ⑬ 651050 **Same**, diameter 4.5 mm
- ⑭ 648521 McKENTY **Sphenoid Punch**, reversible
- ⑮ 648523 McKENTY-CASTELNUOVO **Sphenoid Punch**, tip curved 30°, through-cutting, working length 17 cm

Instruments for accessing the sella region

- ⑯ 28164 UA **RHINOFORCE® II Nasal Forceps**, through-cutting, width of cut 1.5 mm, straight jaws, working length 18 cm
- ⑰ 28164 UB **Same**, jaws angled upwards 45°
- ⑱ 28164 UE **Same**, jaws angled downwards 45°
- ⑲ 663202 **Forceps**, round cupped jaws, diameter 0.6 mm, straight, working length 18 cm
- ⑳ 663237 **Forceps**, 45° upturned, with round cupped jaws, diameter 2.5 mm, working length 18 cm
- ㉑ 663227 **Forceps**, 45° upturned, not through-cutting, with oval, fenestrated cupped jaws, width 1.8 mm, working length 18 cm
- ㉒ 663221 **Same**, straight
- ㉓ 649100 B BLAKESLEY **RHINOFORCE® II Ethmoid Forceps**, size 0, working length 16 cm
- ㉔ 649110 B BLAKESLEY-WILDE **RHINOFORCE® II Ethmoid Forceps**, 45° upturned
- ㉕ 663304 **Scissors**, curved to right, extra delicate, working length 18 cm
- ㉖ 663305 **Same**, curved to left
- ㉗ 663307 **Same**, 45° curved upwards
- ㉘ 663302 **Same**, straight
- ㉙ 663300 **Scissors**, straight, working length 18 cm
- ㉚ 663327 **Scissors**, 45° upwards curve, rotating, working length 18 cm
- ㉛ 28164 BDL **TAKE-APART® Bipolar Forceps**, distally angled 45°, working length 20 cm
- 26176 LE **Bipolar High Frequency Cord**, length 300 cm (not illustrated)
- ㉜ 28164 X CASTELNUOVO **Suction Tube**, diameter 2 mm, working length 25 cm
- ㉝ 28164 RO CAPPABIANCA-de DIVITIIS **Ring Curette**, with round wire, inner diameter 5 mm, tip angled 45°
- ㉞ 28164 RD **Same**, laterally curved sheath end 90°
- ㉟ 28164 RB **Same**, inner diameter 3 mm, laterally curved sheath end
- ㊱ 28164 RG **Same**, tip angled 90°
- ㊲ 28164 RN **Same**, inner diameter 3 mm
- ㊳ 28164 KA **Curette**, round spoon, size 1 mm, length 23 cm
- ㊴ 28164 KB **Curette**, size 2 mm, length 25 cm
- ㊵ 28164 KG **Curette**, spoon-shaped, size 3 mm, length 25 cm

- ㊶ 28164 DS **Dissector**, sharp, tip angled 15°, size 2 mm, length 25 cm
- ㊷ 28164 DM **Dissector**, sharp, curved, size 3 mm, length 25 cm
- ㊸ 28164 KF **Curette**, spoon-shaped, size 2 mm, length 25 cm
- ㊹ 28164 DA **Dissector**, sharp, tip angled 45°, size 2 mm, length 25 cm
- ㊺ 28164 RR CAPPABIANCA-de DIVITIIS **Curette**, stirrup-shaped, length 25 cm
- ㊻ 28164 DF **Dissector**, sharp, size 1.5 mm, length 25 cm
- ㊼ 28164 H CASTELNUOVO **Hook**, 90°, blunt, with round handle, length 25 cm
- ㊽ 662885 FRANK-PASQUINI **Suction Tube**, tip curved upwards, diameter 3 mm, working length 13 cm
- ㊾ 662882 **Same**, diameter 2.4 mm, curved upwards
- ㊿ 662886 **Same**, diameter 3 mm, curved downwards
- 50 662883 **Same**, diameter 2.4 mm, curved downwards,
- 51 649180 N FERGUSON-CASTELNUOVO **Suction Tube**, diameter 2 mm, working length 15 cm
- 52 649183 FERGUSON **Suction Tube**, LUER, 10 Fr., working length 15 cm
- 53 649182 BU FERGUSON-CASTELNUOVO **Suction Tube**, diameter 2.5 mm

Instruments for removal of septum cartilage material

- 54 660506 **Round Knife**, vertical cutng, length 18 cm
- 55 660509 **Round Knife**, angled 45°, diameter 2 mm, length 18 cm
- 56 634826 BELLUCCI **Scissors**, straight, working length 12.5 cm

Telescopes

- 57 7219 AS **Suction and Irrigation Sheath 0°**, for 7229 AA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 58 7229 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 2.7 mm, length 18 cm
- 59 7219 FS **Irrigation and Suction Sheath 45°**, for 7219 FA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 60 7229 FA **HOPKINS® II Forward-Oblique Telescope 45°**, enlarged view, diameter 2.7 mm, length 18 cm
- 61 7230 AS **Irrigation Sheath**, for 7230 AA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 62 7230 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 18 cm
- 63 7230 FS **Irrigation Sheath**, for 7230 FA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 64 7230 FA **HOPKINS® II Forward-Oblique Telescope 45°**, enlarged view, diameter 4 mm, length 18 cm

- Accessories recommended for containers (not illustrated):**
- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
 - 39753 A2 **Sterilization Container**, with MicroStop®
 - 39763 A2 **Coding Label**
 - 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

Basic Set for Tonsillectomy and Adenoidectomy



Basic Set for Tonsillectomy and Adenoidectomy

| | | |
|---|-----------|--|
| ① | 744201 | RUSSEL-DAVIS Tongue Blade , size 1 |
| ② | 744202 | Same , size 2 |
| ③ | 744203 | Same , size 3 |
| ④ | 744204 | Same , size 4 |
| ⑤ | 740700 | HARTMANN Tongue Depressor |
| ⑥ | 450003 | HARTMANN Nasal Cutting Forceps , round, size 3 |
| ⑦ | 740000 | BRÜNING'S Tongue Depressor , length 19 cm |
| ⑧ | 767902 | Laryngeal Mirror , with unscrewable hexagonal handle, size 2 |
| ⑨ | 767906 | Laryngeal Mirror , with unscrewable hexagonal handle, size 6 |
| ⑩ | 810502 | Needle, Tonsil , straight |
| ⑪ | 810506 | Septum Needle , angular, LUER-Lock |
| ⑫ | 6x 796011 | BACKHAUS Towel Forceps , length 11 cm |
| ⑬ | 810806 | Cup Medicine , 60 ccm |
| ⑭ | 744500 | DAVIS-MEYER Mouth Gag |
| ⑮ | 744600 | McIVOR Mouth Gag |
| ⑯ | 753500 | BRÜNING'S Tonsil Snare |
| | 754200 | Wire Snare Loop , for 753500, package of 100 (not illustrated) |
| ⑰ | 751001 | BLOHMKE Forceps |
| ⑱ | 750800 | COLVER Forceps |
| ⑲ | 752500 | GOOD Scissors |
| ⑳ | 755500 | YANKAUER Suction Tube |
| ㉑ | 751411 | HENKE Elevator , width 11.5 mm |
| ㉒ | 754719 | SCHNIDT Forceps , slightly curved, serrated |
| ㉓ | 754518 | MIKULICZ Forceps , small size, 1 x 2 teeth |
| ㉔ | 750000 | Dressing Forceps , serrated, length 20 cm |
| ㉕ | 750123 | Tissue Forceps , 2 x 3 teeth, length 20 cm |
| ㉖ | 757700 | ROEDER Loop Applicator , model E |
| | 757811 | Loop , for 757700, absorbable, sterile, package of 12 (not illustrated) |
| ㉗ | 730000 | BECKMANN Adenoid Curette , straight, size 0 |
| ㉘ | 730001 | Same , size 1 |
| ㉙ | 730002 | Same , size 2 |
| ㉚ | 730003 | Same , size 3 |
| ㉛ | 730004 | Same , size 4 |
| ㉜ | 746700 | NAGER Pillar Retractor |
| ㉝ | 732500 | JURACZ Adenoid Forceps , sharp |
| ㉞ | 798618 | HEGAR Needle Holder , slender, tungsten carbide inserts, length 18 cm |
| ㉟ | 842219 | Bipolar Coagulation Forceps , length 19 cm |
| ㊱ | 847000 E | Bipolar High Frequency Cord , for 842219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated) |

Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**

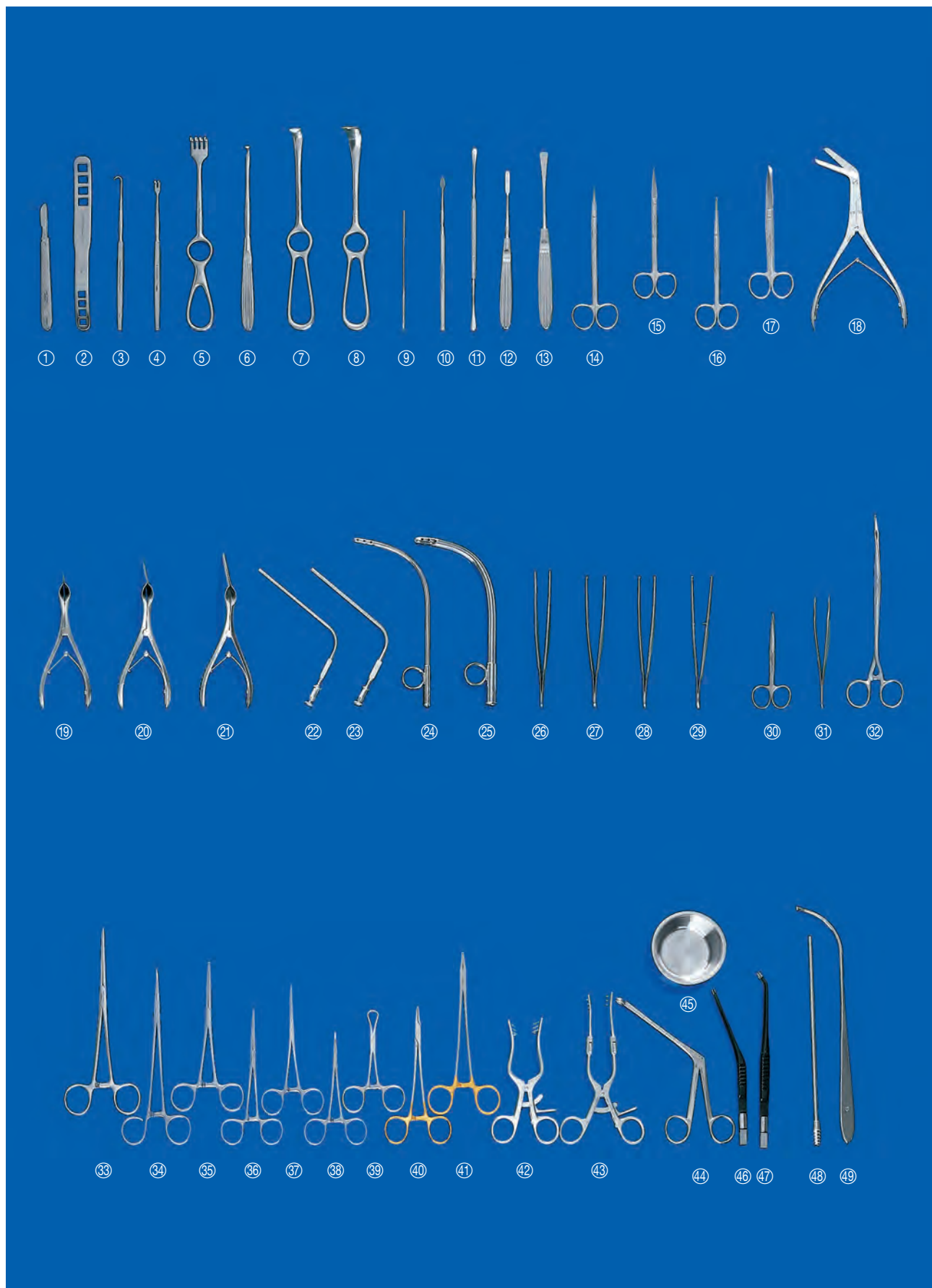
39742 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Tracheostomy Set



Basic Tracheostomy Set

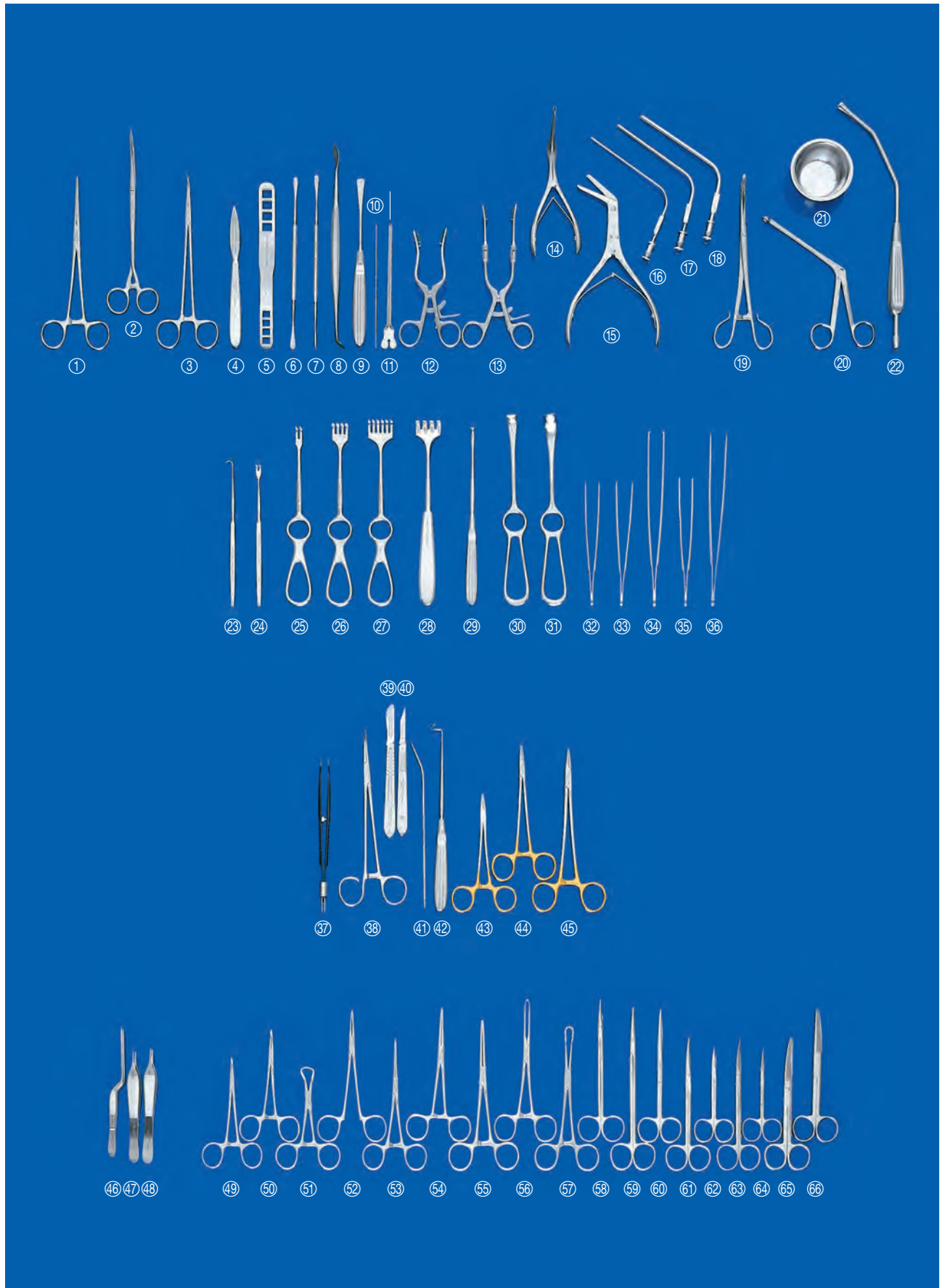
| | | |
|---|-----------|---|
| ① | 208000 | Surgical Handle , Fig. 3, length 12.5 cm |
| | 208010 | Blade , Fig. 10, non-sterile, package of 100 (not illustrated) |
| | 208011 | Same , Fig. 11, non-sterile, package of 100 (not illustrated) |
| | 208015 | Same , Fig. 15, non-sterile, package of 100 (not illustrated) |
| ② | 740000 | BRÜNING'S Tongue Depressor , length 19 cm |
| ③ | 786001 | Retractor , sharp, 1 prong |
| ④ | 786002 | Same , 2 prongs |
| ⑤ | 2x 800404 | VOLKMANN Retractors , sharp, 4 prongs |
| ⑥ | 786500 | SCHÖNBORN Thymus Retractor , width 5 mm, length 20.5 cm |
| ⑦ | 2x 801800 | LANGENBECK Retractors , 33 x 14 mm |
| ⑧ | 2x 801600 | Same , 60 x 20 mm |
| ⑨ | 2x 151011 | Cotton Applicators , triangular serrated, working length 13 cm |
| ⑩ | 212000 | WULLSTEIN Elevator |
| ⑪ | 474000 | FREER Elevator , double-ended |
| ⑫ | 478000 | JOSEPH Elevator |
| ⑬ | 169009 | JANSEN Raspatory |
| ⑭ | 791815 | REYNOLDS Dissecting Scissors , delicate tips |
| ⑮ | 511414 | JOSEPH Scissors , curved, length 14 cm |
| ⑯ | 511615 | METZENBAUM-LAHEY Scissors , extra slender |
| ⑰ | 791202 | Dissecting Scissors , curved, sharp/blunt, length 14.5 cm |
| ⑱ | 789500 | KILLIAN Laryngectomy Scissors |
| ⑲ | 403555 | KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 55 mm, length 13.5 cm |
| ⑳ | 403575 | Same , blade length 75 mm |
| ㉑ | 403590 | Same , blade length 90 mm |
| ㉒ | 204809 | FERGUSON Suction Tube , 9 Fr. |
| ㉓ | 204812 | Same , 12 Fr. |
| ㉔ | 785005 | BRÜNING'S Live-Saving Tube , outer diameter 5 mm |
| ㉕ | 785009 | Same , outer diameter 9 mm |
| ㉖ | 530416 | "ATRAUMA" Atraumatic Tissue Forceps , length 16 cm |
| ㉗ | 2x 793401 | Tissue Forceps , 1 x 2 teeth, standard width, length 14.5 cm |
| ㉘ | 793402 | Same , medium |
| ㉙ | 793403 | Same , narrow |
| ㉚ | 513410 | COTTLE Scissors , curved, length 10.5 cm |
| ㉛ | 533212 | ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm |
| ㉜ | 748220 | DUPLAY Dressing and Sponge Holding Forceps , curved, length 21 cm |
| ㉝ | 755120 | HALLE-BIRKET Forceps , straight, length 20 cm |
| ㉞ | 2x 754719 | SCHNIDT Forceps , slightly curved, length 19 cm |
| ㉟ | 794016 | ROCHESTER-PEAN Artery Forceps , straight, length 16 cm |
| ㊱ | 2x 794014 | Same , length 14 cm |
| ㊲ | 2x 794514 | OCHSNER-KOCHER Artery Forceps , straight, length 14 cm |
| ㊳ | 8x 535212 | HALSTEAD "Mosquito" Artery Forceps , curved, length 12.5 cm |
| ㊴ | 6x 796011 | BACKHAUS Towel Forceps , length 11 cm |
| ㊵ | 516015 | Needle Holder , tungsten carbide inserts, length 15 cm |
| ㊶ | 798618 | HEGAR Needle Holder , slender, tungsten carbide inserts, length 18 cm |
| ㊷ | 219513 | WULLSTEIN Retractor , 3 x 3 teeth, length 13 cm |
| ㊸ | 219717 | FISCH Retractor , 3 x 3 teeth, length 17 cm |
| ㊹ | 450002 | HARTMANN Nasal Cutting Forceps , round, size 2 |
| ㊺ | 810810 | Cup Medicine , 100 ccm |
| ㊻ | 843116 | Bipolar Coagulating Forceps , angled |
| ㊼ | 842219 | Same , angled tip, length 19 cm |
| ㊽ | 847000 E | Bipolar High Frequency Cord , for 843116 and 842219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated) |
| ㊾ | 203930 | Suction Tube , malleable, outer diameter 3 mm |
| ㊿ | 771000 | KILLIAN Laryngeal Applicator , length 25 cm |

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39741 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Neck Dissection Set



KLEINSASSER Basic Adult Laryngoscopy Set

- ① 8590 B KLEINSASSER **Operating Laryngoscope**, large, length 17 cm
- ② 8590 C **Same**, medium (most commonly used model)
- ③ 8590 DN **Same**, small, length 18 cm (for very difficult anatomical circumstances)
- ④ 8590 GF **Fiber Optic Light Carrier**, for use with 8590 B – JL
- ⑤ 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm
- ⑥ 5x 8575 QS **Teeth Protector**, silicone, **autoclavable**, can also be used as inlay in metal teeth protector
- ⑦ 8660 N KLEINSASSER **Needle Holder**, with ratchet, working length 23 cm
- ⑧ 8660 L KLEINSASSER **Laryngeal Biopsy Forceps**, robust, size 3 x 4 mm, working length 23 cm
- ⑨ 8594 A KLEINSASSER **Scissors**, straight, working length 23 cm
- ⑩ 8593 A KLEINSASSER **Grasping Forceps**, without ratchet, serrated, straight, working length 23 cm
- ⑪ 8594 B KLEINSASSER **Scissors**, angled 45°, working length 23 cm
- ⑫ 8594 C **Same**, curved to right
- ⑬ 8594 D **Same**, curved to left
- ⑭ 8591 A KLEINSASSER **Cutting Forceps**, straight, with 2 mm cupped jaws, working length 23 cm
- ⑮ 8591 B **Same**, curved upwards
- ⑯ 8591 C **Same**, curved to right
- ⑰ 8591 D **Same**, curved to left
- ⑱ 8597 KLEINSASSER **Handle**, for 8595 A – 8596 T
- ⑲ 8596 A KLEINSASSER **Hook**, blunt, with probe button, working length 23 cm
- ⑳ 8596 B **Same**, sharp
- ㉑ 8596 T KLEINSASSER **Knot Tier**, working length 23 cm
- ㉒ 8596 F KLEINSASSER **Needle**, curved to left, working length 23 cm
- ㉓ 8596 E **Same**, curved to right
- ㉔ 8595 C KLEINSASSER **Laryngeal Knife**, sickle-shaped, working length 23 cm
- ㉕ 8595 E **Same**, golf club-shaped
- ㉖ 8595 A **Same**, oval, straight
- ㉗ 8596 H KLEINSASSER **Suction Elevator**, working length 23 cm
- ㉘ 8603 KLEINSASSER **Suction Tube**, outer diameter 2.5 mm
- ㉙ 8598 B KLEINSASSER **Injection Needle**, LUER-Lock, straight
- ㉚ 8605 N KLEINSASSER **Insulated Cannula**, for suction and coagulation, outer diameter 3 mm
- ㉛ 26005 M **Unipolar High Frequency Cord**, with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)

Accessories recommended for containers (not illustrated):

- 2x 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39753 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Pediatric Laryngoscopy Set



8-941

Basic Pediatric Laryngoscopy Set

- ① 8574 J BENJAMIN **Operating Laryngoscope**, for children, length 15 cm
- ② 8574 JH **Fiber Optic Light Carrier**, for distal illumination, length 12 cm, for use with 8574 J/JP
- ③ 8587 KK LINDHOLM **Operating Laryngoscope**, for children, distal end width 16 mm, length 11 cm
- ④ 8587 GF **Fiber Optic Light Carrier**, for distal illumination, length 7.5 cm, for use with Laryngoscope 8587 A/AA/KK
- ⑤ 8587 P BENJAMIN-LINDHOLM **Operating Laryngoscope**, for infants, inner diameter of proximal end 26 x 16 mm, distal end 14 x 11 mm, length 9.5 cm
- ⑥ 8587 PF **Fiber Optic Light Carrier**, for distal illumination, length 6.5 cm, for use with 8587 P
- ⑦ 497 AC **Clip**, for proximal illumination
- ⑧ 8602 KS KLEINSASSER **Suction Tube**, ball-shaped end, outer diameter 2 mm, working length 18 cm
- ⑨ 8603 KS **Same**, outer diameter 3 mm
- ⑩ 8591 MK **Spoon Forceps**, jaws open horizontally, distal end malleable, diameter 4 mm, with cleaning connector, working length 18 cm
- ⑪ 8593 AK KLEINSASSER **Grasping Forceps**, straight, serrated, with cleaning connector, working length 18 cm
- ⑫ 8591 BK KLEINSASSER **Forceps**, upturned, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
- ⑬ 8591 AK **Same**, straight
- ⑭ 8594 DK KLEINSASSER **Scissors**, curved to left, with cleaning connector, working length 18 cm
- ⑮ 8594 CK **Same**, curved to right
- ⑯ 8594 AK KLEINSASSER **Scissors**, straight, with cleaning connector, working length 18 cm
- ⑰ 8575 KC BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support**, rod with metal ring, with 2 lateral screws

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

STEINER Basic LASER
Laryngoscopy Set for Adults



8-943

STEINER Basic LASER Laryngoscopy Set for Adults

- ① 8666 AN **STEINER Distending Operating Laryngoscope**, for adults, channel removing vapor integrated in blade and handle, length 18 cm
- ② 8666 DN **STEINER Distending Operating Oropharyngoscope**, for adults, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 14 cm, for use with Clip 497 AC
- ③ 8661 CN **STEINER Operating Laryngoscope**, medium-large, for adults, with integrated channel to remove vapor, length 18 cm
- ④ 8661 DN **Same**, small, for adults with difficult anatomical circumstances and for children, length 19 cm
- ⑤ 8663 BH **Grasping Forceps**, curved to right, serrated, insulated sheath, working length 23 cm
- ⑥ 8663 CH **Same**, curved to left
- ⑦ 8593 GM **Miniature Grasping Forceps**, extra delicate, serrated, with triangular jaws, curved upwards to right, working length 23 cm
- ⑧ 8593 HM **Same**, curved upwards to left
- ⑨ 8662 D **LARYNGOFORCE®II Grasping Forceps**, delicate, serrated, special matt finish, working length 22 cm
- ⑩ 8662 E **LARYNGOFORCE®II Grasping Forceps**, with oval alligator jaws, small, working length 22 cm
- ⑪ 8662 FL **Same**, medium, working length 22 cm
- ⑫ 8662 GL **LARYNGOFORCE®II Grasping Forceps**, with oval, fenestrated alligator jaws, large, with suction channel to remove LASER vapors, working length 22 cm
- ⑬ 8665 T **Clips**, titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each
- ⑭ 8665 L **LARYNGOFORCE®II Clip Forceps**, jaw curved to left, working length 22 cm
- ⑮ 8665 R **Same**, jaw curved to right
- ⑯ 8606 D **Coagulation Suction Tube**, with ergonomic handle, insulated, with connection for unipolar coagulation, outer diameter 2 mm, working length 23 cm
- ⑰ 8606 E **Same**, outer diameter 2.5 mm
- ⑱ 8606 F **Same**, outer diameter 3.5 mm
- 26005 M **Unipolar High Frequency Cord**, with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)
- ⑲ 8596 R **Protector**, to protect tissue against unintentional LASER irradiation, oval, diameter 7 mm, working length 23 cm
- ⑳ 497 AC **Clip**, for proximal illumination
- ㉑ 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm

If required:

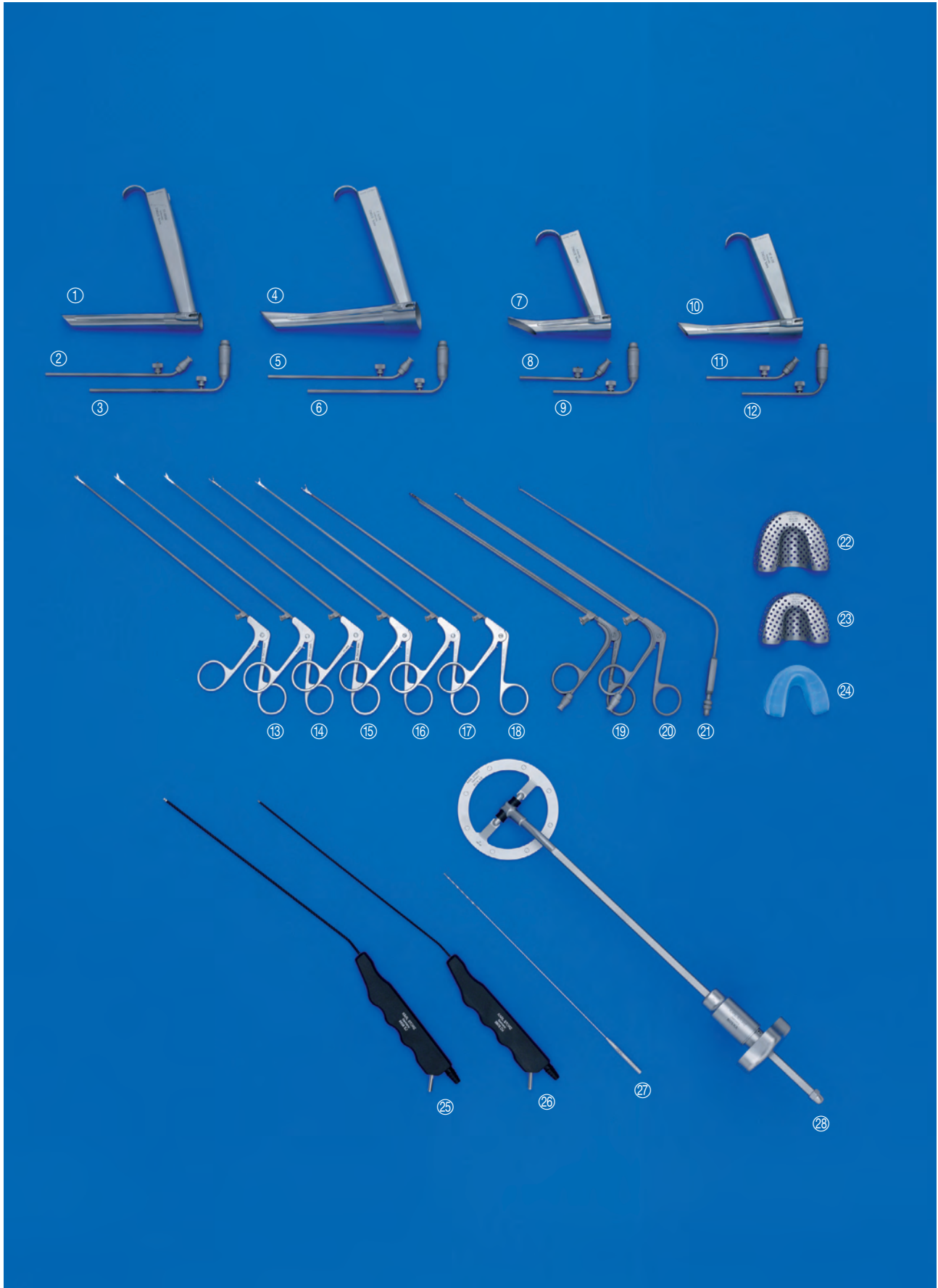
- 8575 L **Support Table**, GÖTTINGEN model, for Laryngoscope Holder 8575 K/KC, height adjustable swivel arm with movable plate, can be mounted on operation table equipped with standard sliding rail 25 x 10 mm (not illustrated)

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

WERNER Special Pediatric LASER Laryngoscopy Set



3-001

WERNER Special Pediatric LASER Laryngoscopy Set

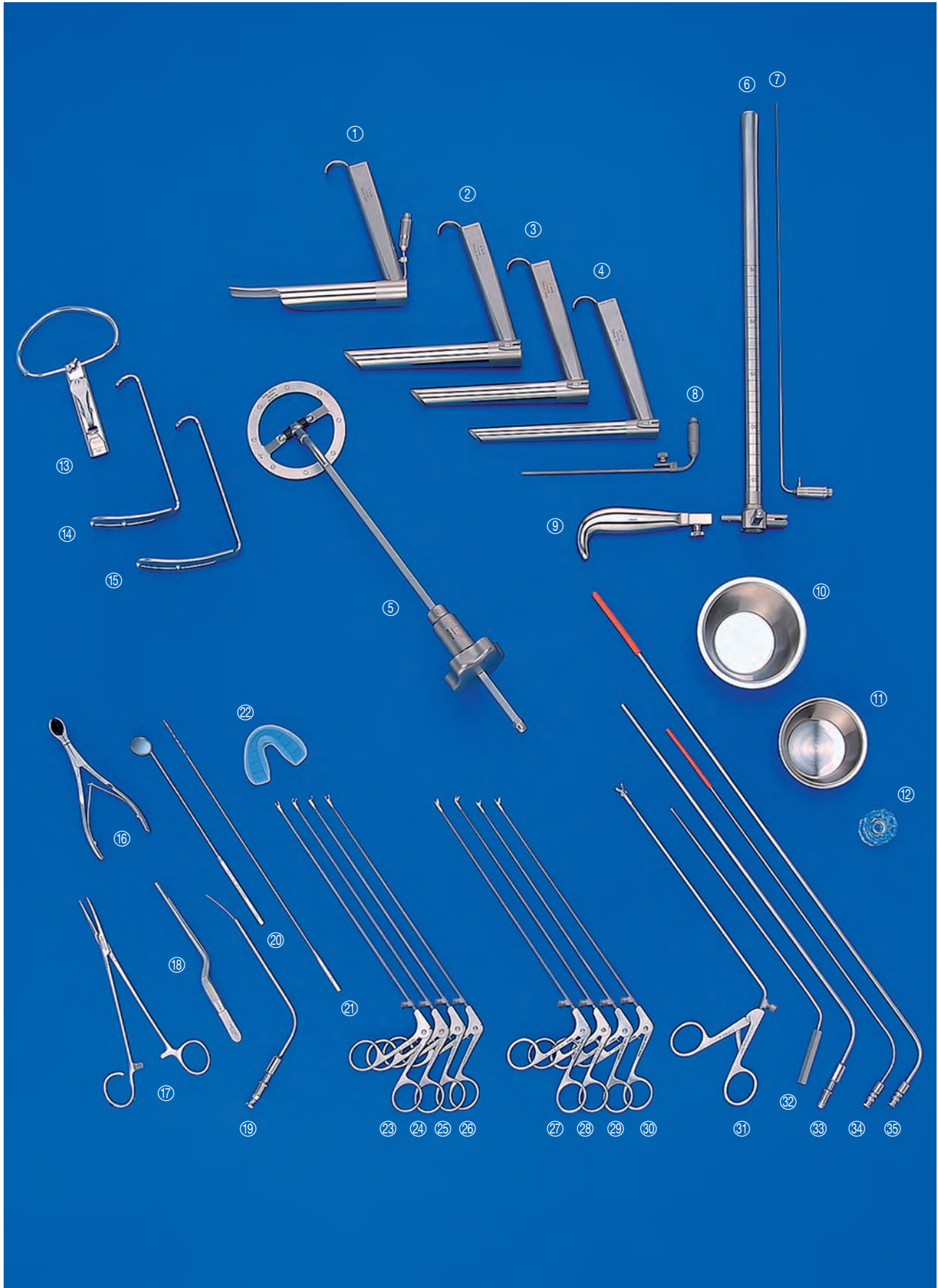
- ① 8590 LL **KLEINSASSER Laryngoscope**, modified by RUDERT for CO₂ LASER surgery, for infants, length 13 cm
- ② 8574 JK **Suction Tube, to remove vapor**, for use with Laryngoscope 8590 LL
- ③ 8574 JH **Fiber Optic Light Carrier**, for use with Laryngoscope 8590 LL
- ④ 8574 J **BENJAMIN Operating Laryngoscope**, for children, length 15 cm
- ⑤ 8574 JK **Suction Tube, to remove vapor**, for use with Operating Laryngoscope 8574 J
- ⑥ 8574 JH **Fiber Optic Light Carrier**, for use with Operating Laryngoscope 8574 J
- ⑦ 8574 JB **BENJAMIN Operating Laryngoscope**, for children, small size, length 11.5 cm
- ⑧ 8587 PM **Suction Tube, to remove vapor**, for use with Operating Laryngoscope 8574 JB
- ⑨ 8587 PF **Fiber Optic Light Carrier**, for use with Operating Laryngoscope 8574 JB
- ⑩ 8587 P **BENJAMIN-LINDHOLM Operating Laryngoscope**, for infants, length 9.5 cm
- ⑪ 8587 PM **Suction Tube, to remove vapor**, for use with Operating Laryngoscope 8587 P
- ⑫ 8587 PF **Fiber Optic Light Carrier**, for use with Operating Laryngoscope 8587 P
- ⑬ 8594 AJ **KLEINSASSER Scissors**, straight, with cleaning connector, working length 21 cm
- 8594 AK **Same**, working length 18 cm
- ⑭ 8594 CJ **KLEINSASSER Scissors**, curved to right, with cleaning connector, working length 21 cm
- 8594 CK **Same**, working length 18 cm
- ⑮ 8594 DJ **KLEINSASSER Scissors**, curved to left, with cleaning connector, working length 21 cm
- 8594 DK **Same**, working length 18 cm
- ⑯ 8591 AJ **KLEINSASSER Forceps**, straight, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
- 8591 AK **Same**, working length 18 cm
- ⑰ 8591 CJ **KLEINSASSER Forceps**, curved to right, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
- 8591 CK **Same**, working length 18 cm
- ⑱ 8591 DJ **KLEINSASSER Forceps**, curved to left, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
- 8591 DK **Same**, working length 18 cm
- ⑲ 8591 RJL **Spoon Forceps**, diameter 2 mm, opens horizontally to right, sheath conically reinforced from distal to proximal, with suction channel to remove vapor, with cleaning connector, working length 21 cm
- 8591 RJK **Same**, working length 18 cm
- ⑳ 8591 SJL **Same**, opens horizontally to left, working length 21 cm
- 8591 SJK **Same**, opens horizontally to left, working length 18 cm
- ㉑ 8596 OJ **Protector**, curved upwards, diameter 3 mm, to protect tissue against unintentional LASER irradiation, working length 21 cm
- 8596 OK **Same**, working length 18 cm
- ㉒ 8575 RC **Teeth Protector**, metal, small
- ㉓ 8575 RB **Teeth Protector**, metal, medium
- ㉔ 8575 QS **Teeth Protector**, silicone, **autoclavable**, can also be used as inlay in metal teeth protector
- ㉕ 8606 DJ **Coagulation Suction Tube**, with ergonomical handle, insulated, outer diameter 2 mm, working length 21 cm
- 8606 DK **Same**, working length 18 cm
- ㉖ 8606 EJ **Same**, outer diameter 2.5 mm, working length 21 cm
- 8606 EK **Same**, working length 18 cm
- 26005 M **Unipolar High Frequency Cord**, with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)
- ㉗ 8596 WJ **Cotton Applicator**, straight, working length 21 cm
- 8596 WK **Same**, working length 18 cm
- ㉘ 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Panendoscopy Set



12-08

Basic Panendoscopy Set

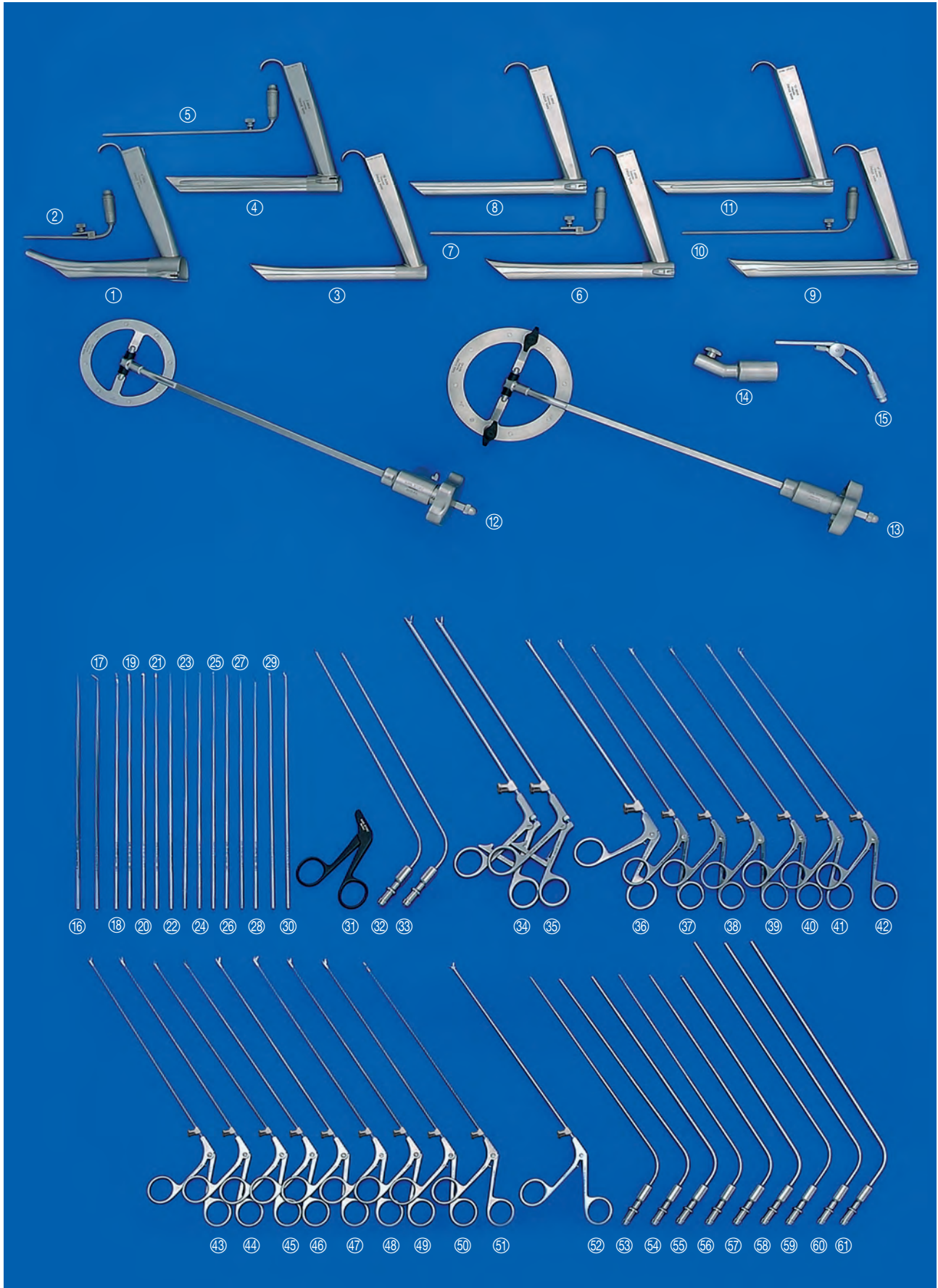
- ① 8575 C RIECKER **Laryngoscope**, slotted, adult size, with Fiber Optic Light Carrier 8575 CF
- ② 8590 B KLEINSASSER **Operating Laryngoscope**, large, length 17 cm
- ③ 8590 C KLEINSASSER **Operating Laryngoscope**, medium, length 17 cm (most commonly used model)
- ④ 8590 DN KLEINSASSER **Operating Laryngoscope**, small, length 18 cm (for particularly difficult anatomical circumstances)
- ⑤ 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model
including:
Laryngoscope Holder, GÖTTINGEN model, with adjustment wheel
Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm
- ⑥ 12060 AV ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 40 cm, for use with Fiber Optic Light Carrier 12061 AV and/or Prismatic Light Deflector 10101 FA
- ⑦ 12061 AV **Fiber Optic Light Carrier**, for use with esophagoscopes, length 40 cm
- ⑧ 8590 GF **Fiber Optic Light Carrier**, for distal illumination, working length 14 cm
- 495 UD **Fiber Optic Light Cable**, with straight connector, 2x diameter 3.5 mm, length 180 cm, for simultaneous light transmission for 2 instruments (not illustrated)
- ⑨ 12070 **Handle**
- ⑩ 810820 **Cup Medicine**, 200 ccm, diameter 100 mm, height 50 mm
- ⑪ 810810 **Cup Medicine**, 100 ccm, diameter 80 mm, height 30 mm
- ⑫ 818500 **Medicine Dish**, glass, diameter 32 mm, colored
- ⑬ 744600 McIVOR **Mouth Gag**, with removable bow for replacement of rubber tube
- ⑭ 744303 **Tongue Blade**, WÜRZBURG model, slotted, size 3
- ⑮ 744304 **Same**, size 4
- ⑯ 400500 HARTMANN **Nasal Speculum**, for adults, length 13 cm
- ⑰ 754719 SCHNIDT **Forceps**, slightly curved, serrated, length 19 cm
- ⑱ 426516 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm
- ⑲ 204810 FERGUSON **Suction Tube**, with cut-off hole and stylet, LUER, 10 Fr., working length 11 cm
- ⑳ 769905 **Laryngeal Mirror**, with unscrewable hexagonal handle, size 5
- ㉑ 8596 W **Cotton Applicator**, straight, working length 25 cm
- ㉒ 8575 QS **Teeth Protector**, **silicone**, **autoclavable**
- ㉓ 8591 A KLEINSASSER **Cutting Forceps**, straight, with 2 mm cupped jaws, working length 23 cm
- ㉔ 8591 B **Same**, curved upwards
- ㉕ 8591 C **Same**, curved to right
- ㉖ 8591 D **Same**, curved to left
- ㉗ 8594 A KLEINSASSER **Scissors**, straight, working length 23 cm
- ㉘ 8594 B **Same**, angled 45°
- ㉙ 8594 C **Same**, curved to right
- ㉚ 8594 D **Same**, curved to left
- ㉛ 8591 P **Cutting Forceps**, with round 5 mm cupped jaws, robust model, double action jaws, sheath diameter 2.5 mm, working length 23 cm
- ㉜ 8596 D **Laryngeal Probe**, straight, sheath angled, round handle, working length 23 cm
- ㉝ 10380 AK **Suction Tube**, diameter 4 mm, working length 35 cm
- ㉞ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ㉟ 10381 A **Suction Tube**, with rubber tip, straight, diameter 4 mm, working length 50 cm

Accessories recommended for containers (not illustrated):

- 2x 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39753 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

WOO/SHAPSHAY/OSSOFF Microsurgical Instrument Set for Phonosurgery



8-942

WOO/SHAPSHAY/OSSOFF Microsurgical Instrument Set for Phonosurgery

- | | | | | | |
|---|---------|--|----|--------|---|
| ① | 8587 A | LINDHOLM Operating Laryngoscope , length 15 cm | ③④ | 8659 C | FEHLAND Needle Holder , angled 90° to right, working length 20 cm |
| ② | 8587 GF | Fiber Optic Light Carrier , for use with Laryngoscope 8587 A | ③⑤ | 8659 D | Same , angled to left |
| ③ | 8574 SL | BENJAMIN Slimline Operating Laryngoscope and Subglottiscope , for adults, length 17 cm | ③⑥ | 8660 P | KLEINSASSER Needle Holder , straight, working length 20 cm |
| ④ | 8589 C | RUDERT Anterior Commissure Laryngoscope , medium, universal size, triangular spatula shaped, length 17 cm | ③⑦ | 8681 A | Micro Forceps , straight, with 1 mm cupped jaws, working length 20 cm |
| ⑤ | 8574 LF | Fiber Optic Light Carrier , length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA | ③⑧ | 8681 B | Same , curved upwards |
| ⑥ | 8590 J | KLEINSASSER Operating Laryngoscope , for anterior commissure, length 18 cm | ③⑨ | 8681 C | Same , curved to right |
| ⑦ | 8590 GF | Fiber Optic Light Carrier , for use with Laryngoscopes 8590 B – JN | ④① | 8681 D | Same , curved to left |
| ⑧ | 8590 C | KLEINSASSER Operating Laryngoscope , medium, length 17 cm | ④② | 8683 A | Micro Grasping Forceps , straight, serrated, working length 20 cm |
| ⑨ | 8590 JA | KLEINSASSER Laryngoscope , length 18 cm, for anterior commissure | ④③ | 8683 B | Same , curved upwards |
| ⑩ | 8574 LF | Fiber Optic Light Carrier , length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA | ④④ | 8683 C | Same , curved to right |
| ⑪ | 8590 CL | KLEINSASSER Laryngoscope , length 17 cm | ④⑤ | 8683 D | SHAPSAY-PERETTI Micro Grasping Forceps , curved upwards to right, working length 20 cm |
| ⑫ | 8575 K | Laryngoscope Holder and Chest Support , GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm | ④⑥ | 8683 G | Same , curved upwards to left |
| ⑬ | 8575 KC | BENJAMIN-PARSONS Laryngoscope Holder and Chest Support | ④⑦ | 8684 A | Micro Scissors , straight, working length 20 cm |
| ⑭ | 8575 V | Extension , GRONINGEN model, for enlargement of opening angle of support rod for overweight patients | ④⑧ | 8684 B | Same , curved upwards |
| ⑮ | 497 AC | Clip , for proximal illumination | ④⑨ | 8684 C | Same , curved to right |
| ⑯ | 8693 A | Probe , straight, diameter 1 mm | ⑤① | 8684 D | Same , curved to left |
| ⑰ | 8693 B | Same , angled 45° | ⑤② | 8686 A | Micro Grasping Forceps , straight, hollowed jaws, serrated tips, opens horizontally to right, working length 20 cm |
| ⑱ | 8656 A | Sickle Knife , curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤③ | 8687 A | Micro Alligator Forceps , both jaws open vertically, with suction channel to remove LASER vapors, working length 20 cm |
| ⑲ | 8656 B | Same , straight cutting | ⑤④ | 8691 A | Suction Tube , with cut-off hole, tip with central opening, outer diameter 1 mm |
| ⑳ | 8656 C | Round Knife , vertical cutting, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑤ | 8691 B | Same , outer diameter 1.5 mm |
| ㉑ | 8656 D | Lancet Knife , straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑥ | 8691 C | Same , outer diameter 2 mm |
| ㉒ | 8656 E | Needle , straight, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑦ | 8692 A | Suction Tube , with cut-off hole, tip closed, with 2 lateral openings, outer diameter 1 mm |
| ㉓ | 8656 F | Hook 90° , 1 mm, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑧ | 8692 B | Same , outer diameter 1.5 mm |
| ㉔ | 8656 G | Same , 2 mm | ⑤⑨ | 8692 C | Same , outer diameter 2 mm |
| ㉕ | 8656 J | Dissector , straight, ball end, delicate, 3 to 0.6 mm tapered shaft, diameter 1.3 mm, total length 23 cm | ⑥① | 8602 | KLEINSASSER Suction Tube , outer diameter 2 mm |
| ㉖ | 8656 L | Elevator , slightly curved, blunt, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑥② | 8603 | Same , outer diameter 2.5 mm |
| ㉗ | 8656 LS | Same , sharp tip | ⑥③ | 8604 | Same , outer diameter 3 mm |
| ㉘ | 8656 N | Same , angled 15° | | | |
| ㉙ | 8656 R | Curette , oval spoon, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm | | | |
| ⑳ | 8656 S | Same , angled 35° | | | |
| ㉑ | 8657 H | Universal Handle , forceps shape, with 2 handle rings, length 9 cm | | | |
| ㉒ | 8656 VL | Suction Elevator , angular, with grip plate and cut-off hole, working length 21 cm, total length 23 cm | | | |
| ㉓ | 8656 VR | Same , curved to right | | | |

Accessories recommended for containers (not illustrated):

- | | |
|------------|--|
| 2x 39502 Z | Wire Tray for Cleaning, Sterilization and Storage |
| 39753 A2 | Sterilization Container , with MicroStop® |
| 39763 A2 | Coding Label |
| 39762 D2 | Color Tab , blue |

Further accessories for cleaning and sterilization
see catalog HYGIENE

Esophagoscopy Adult Set

Basic Set



8-11

Esophagoscopy Adult Set

Basic Set

- ① 12060 A ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 50 cm
- ② 12060 C **Same**, size 10 x 14
- ③ 12061 A **Fiber Optic Light Carrier**, for use with esophagoscopes, length 50 cm
- ④ 12060 B ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 30 cm
- ⑤ 12060 D **Same**, size 10 x 14
- ⑥ 12060 F **Same**, size 8 x 12
- ⑦ 12061 B **Fiber Optic Light Carrier**, for use with esophagoscopes, length 30 cm
- ⑧ 12060 S ROBERTS-JESBERG **Hypopharyngoscope**, oval, size 10 x 14, length 20 cm
- ⑨ 12061 C **Fiber Optic Light Carrier**, for use with hypopharyngoscopes, length 20 cm
- ⑩ 12070 **Handle**, for esophagoscopes

Recommended accessories for esophagoscopes with a length of 50 cm

- ⑪ 12015 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 5.5 mm, length 53 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ⑫ 12016 M **Optical Forceps**, alligator, large jaws, for hard foreign bodies
- ⑬ 12016 L **Optical Forceps**, spoon-shaped, round, for biopsy
- ⑭ 10381 AL **Suction Tube**, with rubber tip, straight, diameter 4 mm, working length 55 cm
- ⑮ 3x 10384 AL **Cotton Carrier**, working length 55 cm
- ⑯ 10387 AL **Sponge Holder**, with spring handle, working length 55 cm

Recommended accessories for esophagoscopes with a length of 30 and 20 cm

- ⑰ 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ⑱ 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- ⑲ 10378 L **Optical Forceps**, spoon-shaped, for biopsy
- ⑳ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ㉑ 3x 10384 B **Cotton Applicator**, working length 35 cm
- ㉒ 10387 B **Sponge Holder**, with spring handle, working length 35 cm

Recommended Wire Trays (not illustrated):

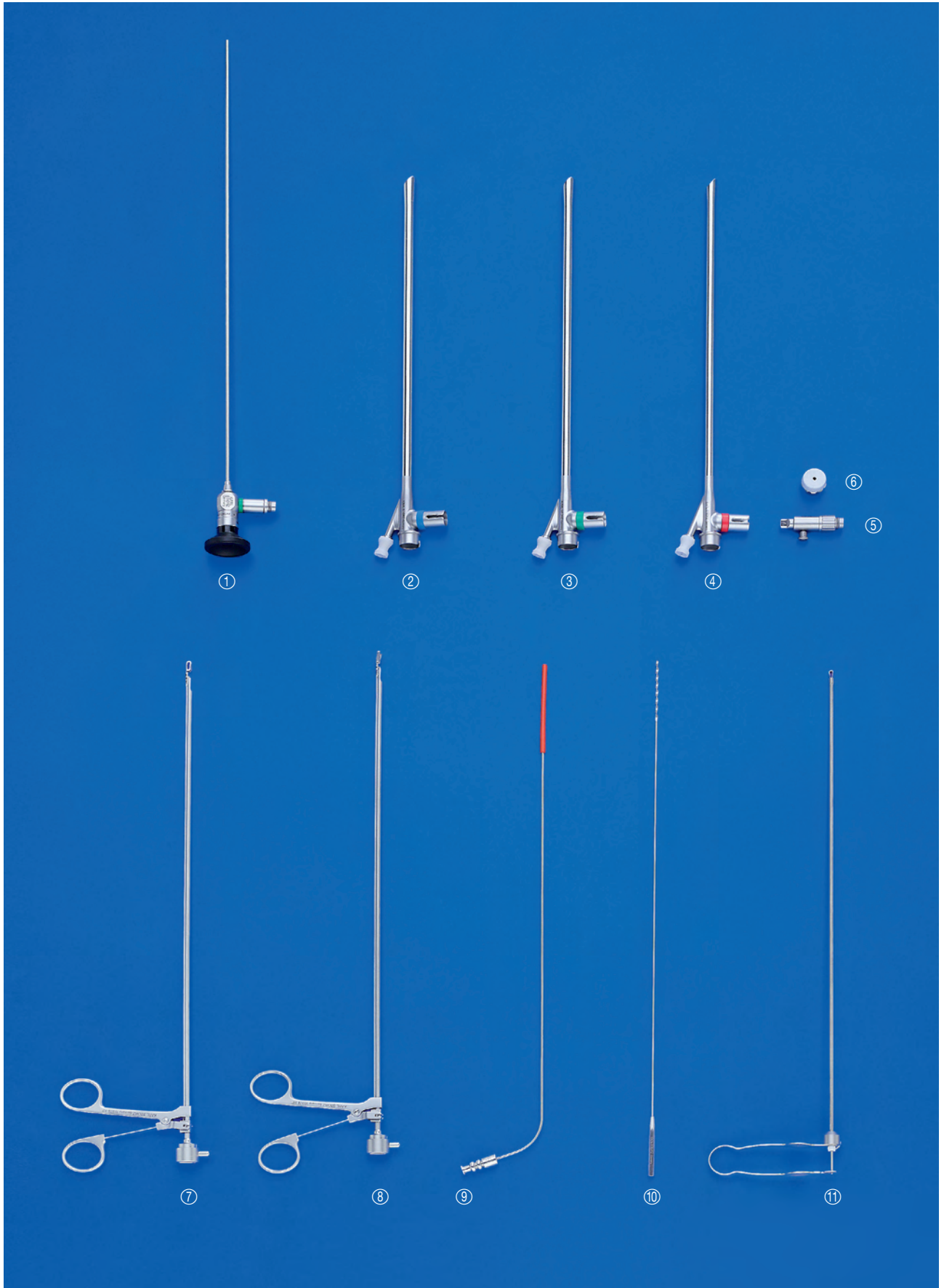
- 39501 BR **Wire Tray for Cleaning, Sterilization and Storage**, of telescopes and accessories for bronchoscopy
- 39501 ES **Wire Tray for Cleaning, Sterilization and Storage**, of instruments and accessories for bronchoscopy and esophagoscopy

Further accessories for cleaning and sterilization see catalog HYGIENE

Esophagoscopy Pediatric Set with Proximal Illumination

Basic Set

STORZ
KARL STORZ — ENDOSKOPE



8-11

Esophagoscopy Pediatric Set with Proximal Illumination

Basic Set

- ① 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ② 12030 A **Esophagoscope Tube**, size 6, length 30 cm
- ③ 12030 B **Same**, size 5
- ④ 12030 C **Same**, size 4
- ⑤ 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- ⑥ 10338 N **Rubber Telescope Guide**, for use with telescopes and optical forceps
- ⑦ 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA
- ⑧ 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA
- ⑨ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ⑩ 3x 10384 B **Cotton Applicator**, working length 35 cm
- ⑪ 10387 B **Sponge Holder**, with spring handle, working length 35 cm

Accessories recommended for containers (not illustrated):

39753 A2 **Sterilization Container**, with MicroStop®

39219 XU **Universal Instrument Rack with Silicone Holders and Tie-downs**

39100 S **Large Diamond Grid Silicone Insert**

39763 A2 **Coding Label**

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Bronchoscopy Adult Set with Proximal Illumination

Basic Set

STORZ
KARL STORZ — ENDOSKOPE



8-11

Basic Bronchoscopy Adult Set with Proximal Illumination

Basic Set

- | | | |
|---|------------|---|
| ① | 10320 AA | HOPKINS® Straight Forward Telescope 0° , diameter 5.5 mm, length 50 cm, autoclavable , fiber optic light transmission incorporated, color code: green |
| ② | 10320 BA | HOPKINS® Forward-Oblique Telescope 30° , diameter 5.5 mm, length 50 cm, autoclavable , fiber optic light transmission incorporated, color code: red |
| ③ | 10318 B | Universal Bronchoscope , size 8.5, length 43 cm |
| ④ | 10318 C | Same , size 7.5 |
| ⑤ | 10318 D | Same , size 6.5 |
| ⑥ | 10315 P | FLUVOG Adaptor , with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable |
| ⑦ | 10924 D | Adaptors , to respirator |
| ⑧ | 10318 S | Instrument Guide , for suction catheter |
| ⑨ | 10318 K | Injection Cannula , for positive pressure assisted ventilation, LUER-Lock, outer diameter 3.5 mm, for use with Bronchoscopes 10318 B/C/D |
| ⑩ | 10350 HF | Optical Forceps , alligator, for hard foreign bodies, large jaws, with spring-action handle |
| ⑪ | 10350 KF | Optical Forceps , for peanuts and soft foreign bodies, with spring-action handle |
| ⑫ | 10350 L | Optical Biopsy Forceps , spoon-shaped, round, for biopsy |
| ⑬ | 3x 10384 A | Cotton Carrier , working length 50 cm |
| ⑭ | 10387 A | Sponge Holder , with spring handle, working length 50 cm |
| ⑮ | 10381 A | Suction Tube , with rubber tip, straight, diameter 4 mm, working length 50 cm |
| ⑯ | 10382 A | Suction Tube , with rubber tip, curved, diameter 4 mm, working length 50 cm |

Recommended Wire Trays (not illustrated):

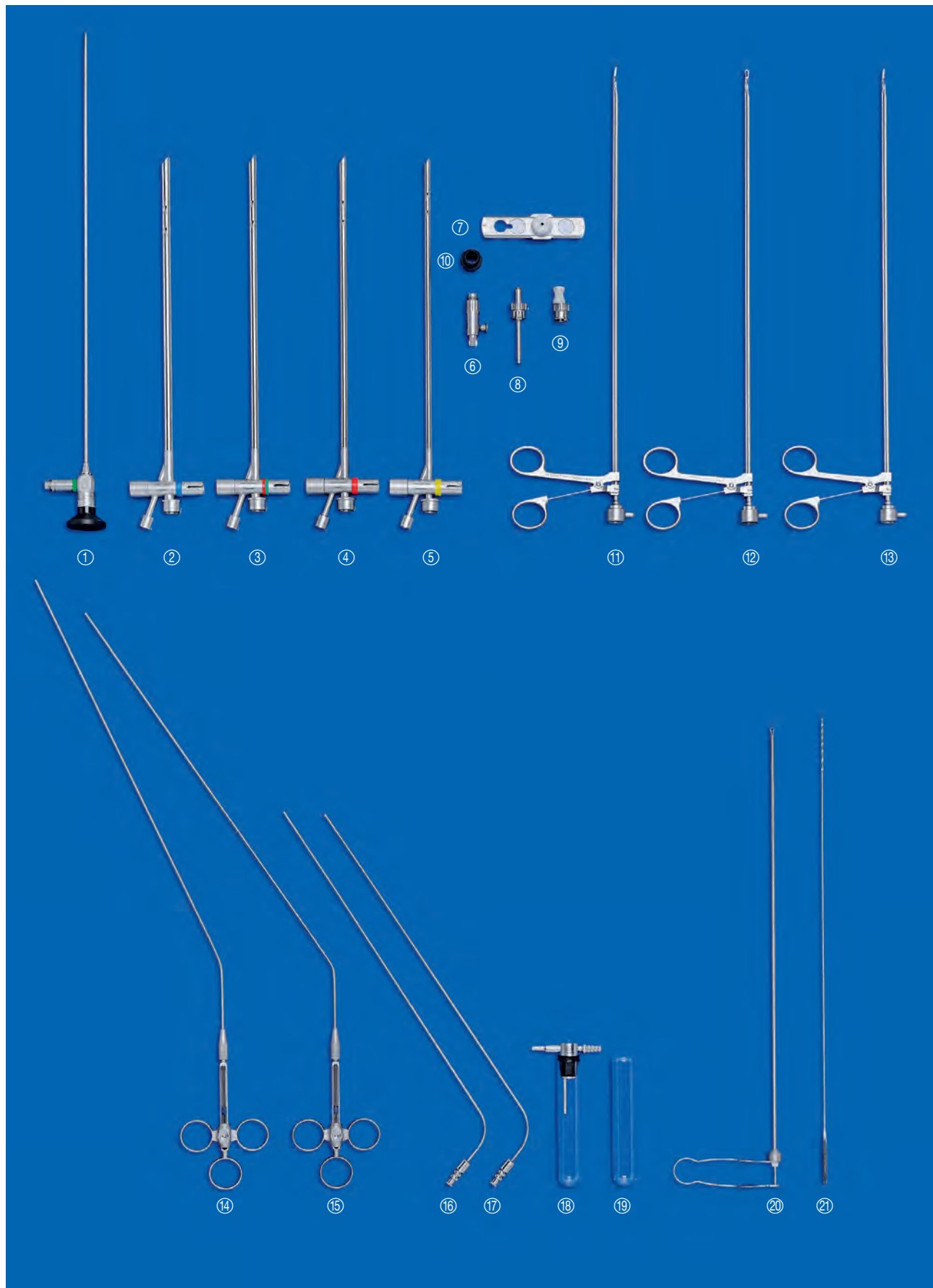
- 39501 BR **Wire Tray for Cleaning, Sterilization and Storage**, of telescopes and accessories for bronchoscopy
39501 ES **Wire Tray for Cleaning, Sterilization and Storage**, of instruments and accessories for bronchoscopy and esophagoscopy

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Bronchoscopy Pediatric Set with Proximal Illumination

Basic Set

STORZ
KARL STORZ — ENDOSKOPE



8-942

Basic Bronchoscopy Pediatric Set with Proximal Illumination

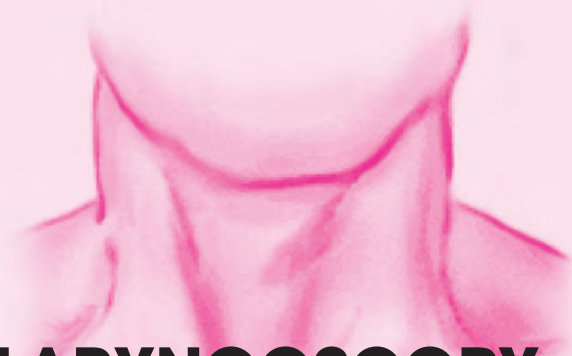
Basic Set

- ① 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ② 10339 A **DOESEL-HUZLY Bronchoscope**, size 6, length 30 cm
- ③ 10339 BB **Same**, size 4.5
- ④ 10339 C **Same**, size 4
- ⑤ 10339 CD **Same**, size 3.5
- ⑥ 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- ⑦ 10338 P **FLUVOG Adaptor**, with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
- ⑧ 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- ⑨ 10338 S **Guide Piece**, for suction catheter, short, for bronchoscopes for children and infants
- ⑩ 10924 D **Adaptor**, for respirator
- ⑪ 10378 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
- ⑫ 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
- ⑬ 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
- ⑭ 10386 B **Foreign Body Basket**, with ring handle, working length 35 cm
- ⑮ 10389 B **Cytology Brush**, with ring handle, working length 35 cm
- ⑯ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ⑰ 10382 B **Suction Tube**, with rubber tip, curved, diameter 2 mm, working length 35 cm
- ⑱ 10432 N **Aspirator**, for collecting secretions, can be connected to suction tubes or suction catheters
- ⑲ 2x 10432 E **Spare Glass**, for Aspirator 10432 N
- ⑳ 2x 10384 B **Cotton Applicator**, working length 35 cm
- ㉑ 10387 B **Sponge Holder**, with spring handle, working length 35 cm

Accessories recommended for containers (not illustrated):

- 39753 A2 **Sterilization Container**, with MicroStop®
- 39219 XU **Universal Instrument Rack with Silicone Holders and Tie-downs**
- 39100 S **Large Diamond Grid Silicone Insert**
- 39763 A2 **Coding Label**

Further accessories for cleaning and sterilization see catalog HYGIENE



**LARYNGOSCOPY
TRACHEOSCOPY**

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X

STORZ
KARL STORZ — ENDOSKOPE

Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable with EtO-Gas, Sterrad® 100S and Steris® System 1/System 1E
- Short insertion tip



3-073

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X



11101 VP

11101 VP **CCD Video Rhino-Laryngoscope, PAL**, for use with IMAGE1,
TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

Direction of view: 0°
Angle of view: 85°
Deflection up/down: 140°/140°
Working length: 30 cm
Outer diameter: 3.7 mm

Following accessories are included:

27677 VC **Case**
13242 XL **Leakage Tester**, with bulb and manometer
11025 E **Pressure Compensation Cap**, for ventilation during gas sterilization

Note: The video connecting cables are not included in the set and must be ordered separately!

22 2000 77 **Video Endoscope Adaptor**, color systems **PAL/NTSC**,
length 90 cm, for use with GI CCU and IMAGE1
or
20 2130 70 **Video Connecting Cable**, for all KARL STORZ video
endoscopes and TELECAM SL II, TELECAM DX II,
TELE PACK or TELE PACK X, length 60 cm

TELE PACK X

Documentation Terminal for Video Rhino-Laryngoscope

TELE PACK X is a compact, portable and flexible system that can be used for a wide range of applications from the doctor's office through to the emergency room.

To enable swift and easy work, TELE PACK X combines all that is needed: monitor, camera and light source. Consideration has also been given to documentation:

Display

- 15" LCD display
- Image rotation
- 24-bit color intensity
- DVI-D video output for connecting HD monitors

Storage possibilities

- SD card slot
- USB ports for external hard drives, USB flash drives and post-script printers
- Picture gallery for records
- Playback of saved videos
- Print-ready patient report documentation

Integrated data management enables comprehensive recording of medical examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Illumination

- HiLux 50 Watt high-performance light source
- Color temperature of 5700 K
- Up to 1000 hours lamp operating time

Control

- Membrane keyboard for wipe-down disinfection
- Arrow keys for control
- Connection socket for pedal control

Appendix

- Portable housing
- Universal power supply unit: 100 – 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 450 x 350 x 150 mm
- Weight: 7 kg



20 045001-EN

20 0450 01-EN TELE PACK X

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC**, with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

Technical information see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

Laryngo-Fiberscopes



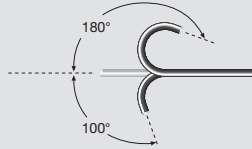


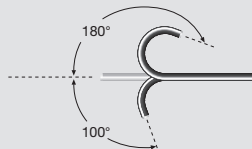


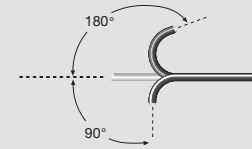


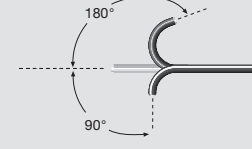


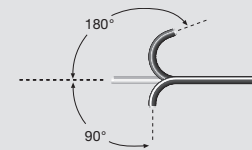
Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Simple leakage test takes only a few minutes and requires no additional accessories
- Sterilizable with EtO-Gas, Steris® and Sterrad®



Laryngo-Fiberscopes

Overview

| Laryngo-Fiberscopes | Order No. | | Deflection | Direction of View | Angle of View |
|--|-----------|---|--|-------------------|---------------|
| 3.5 x 340 mm  | 11001 RD |  |  | 0° | 90° |
| 5 x 230 mm  | 11001 UD |  |  | 0° | 110° |
| 3.5 x 300 mm  | 11101 RP |  |  | 0° | 70° |
| 2.5 x 270 mm  | 11101 SK |  |  | 0° | 90° |
| 2.5 x 370 mm  | 11101 SP |  |  | 0° | 90° |

Accessories included:



- 27677 BB **Case**
- 27677 RR **Case**
- 11025 E **Pressure Compensation Cap**,
for ventilation during gas sterilization
- 13242 XL **Leakage Tester**, with bulb and
manometer
- 13272 **Mouthpiece**

| | Working Length | Working Channel Inner Diameter | Distal End Outer Diameter | Case | Accessories (included) | | | | | |
|--|----------------|--------------------------------|---------------------------|----------|---------------------------|----------------|-------------|----------------|----------------|------------------|
| | | | | | Pressure Compensation Cap | Leakage Tester | Mouth Piece | Cleaning Brush | Biopsy Forceps | Grasping Forceps |
| | 34 cm | 1.5 mm | 3.5 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 AK | 11003 KA | 11003 KB |
| | 23 cm | 2.3 mm | 5.2 mm | 27677 RR | 11025 E | 13242 XL | 13272 | 27651 B | 11001 SL | 11002 SS |
| | 30 cm | – | 3.5 mm | 27677 RR | 11025 E | 13242 XL | – | – | – | – |
| | 27 cm | – | 2.5 mm | 27677 RR | 11025 E | 13242 XL | – | – | – | – |
| | 37 cm | – | 2.5 mm | 27677 RR | 11025 E | 13242 XL | – | – | – | – |

Accessories included:



27651 AK

Cleaning Brush, round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm



27651 B

Cleaning Brush, flexible, for working channel diameter 1.8 – 2.6 mm, length 100 cm



11003 KA

Biopsy Forceps, flexible, double action jaws, oval, diameter 1 mm, length 60 cm

11001 SL

Biopsy Forceps, flexible, double action jaws, oval, 5 Fr., length 60 cm

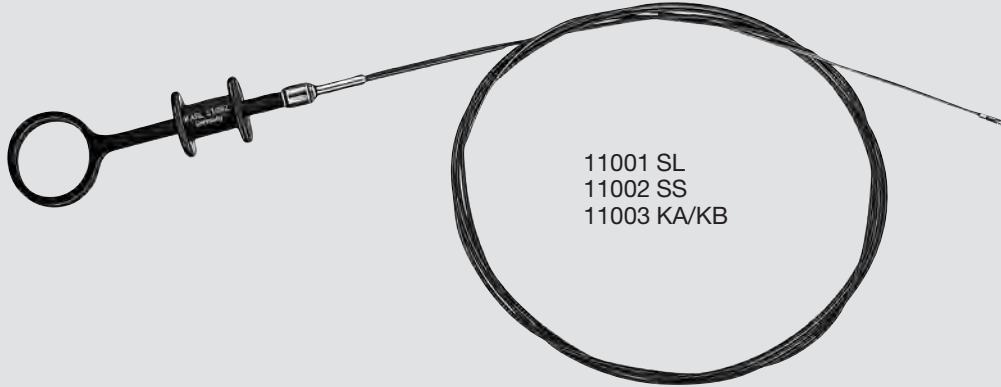
11003 KB

Grasping Forceps, flexible, double action jaws, diameter 1 mm, length 60 cm

11002 SS

Grasping Forceps, flexible, double action jaws, diameter 1.7 mm, length 60 cm

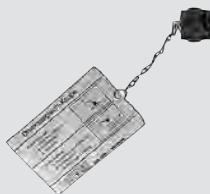
Additional Accessories for Laryngo-Fiberscopes



11001 SL
11002 SS
11003 KA/KB

Forceps, Grasping and Biopsy, flexible for Laryngo-Fiberscopes:

| Distal Tip | Order No. | Article Description | Diameter | Length |
|------------|-----------|--|----------|--------|
| | 11003 KA | Biopsy Forceps, double action jaws, oval | 1 mm | 60 cm |
| | 11001 SL | | 1.7 mm | 60 cm |
| | 11003 KB | Grasping Forceps, double action jaws | 1 mm | 60 cm |
| | 11002 SS | | 1.7 mm | 60 cm |



11025 E



13242 XL

13242 XL **Leakage Tester,** with bulb and manometer

11025 E **Pressure Compensation Cap,** for ventilation during gas sterilization

To freeze the moment



3-07

KARL STORZ Stroboscope PULSAR II

With its high-performance LED, the stroboscope PULSAR II generates light for stroboscopy. The frequency of the pulsating light can also be set to continuous light so that it can be used as a position light.

Image documentation involves connecting a camera head to the respective telescope in conjunction with the KARL STORZ documentation system.

Benefits of the system:

- No difference between strobe and continuous light in terms of brightness and color temperature
- Text overlay on video image possible
- Display in musical notation



KARL STORZ Stroboscope PULSAR II

System components included:

- **LED light source with integrated microphone:**
In a microphone integrated in the handle, the audio signal is recorded, amplified and analyzed to then synchronize the stroboscope with vocal fold vibration.
- **Contact microphone:**
Alternatively, the contact microphone can be used to perform the functions described above.
- **Footswitch:**
The footswitch controls phase synchronization in still image mode and slow motion function. It can also be used to control the optional documentation unit.

Additionally available system components

- **Camera Control Unit (CCU) and camera heads from KARL STORZ**
- **Documentation units from KARL STORZ**
- **Audio equipment for amplification or recording**
- **KARL STORZ monitors**

The system components described above feature these additional functions:

- **Automatic brightness control**
- **Text/data overlay to video image**



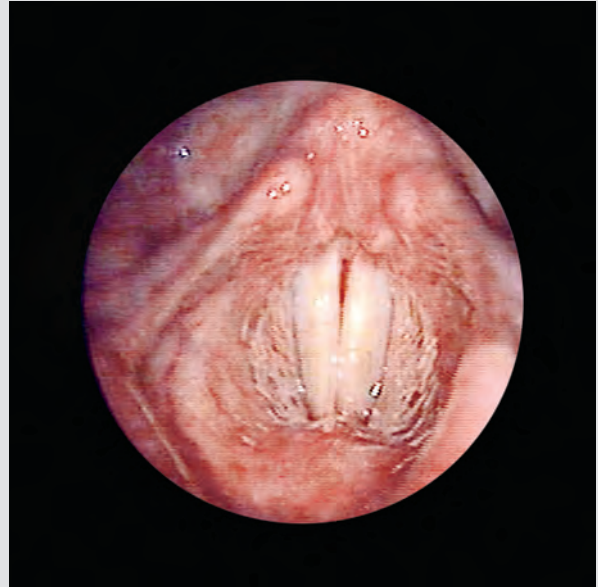
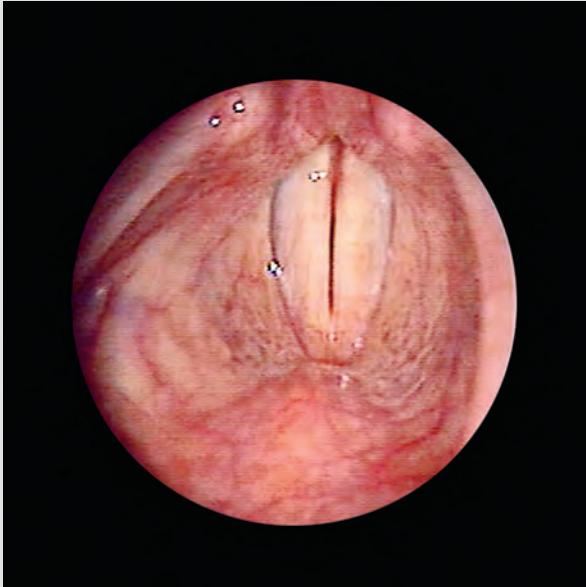
40 1601 01 PULSAR II Stroboscope Set,
power supply 100 – 240 V, 50/60 Hz
including:
Mains Cord
LED Stroboscopy Light Source
Footswitch
Contact Sound Microphone, with clip

Specifications:

| | | | |
|--------------------------|---------------------------|-----------------------|--------------|
| Power Supply | 100-240 V, 50/60 Hz | Slow motion frequency | 0.5 – 2.5 Hz |
| Dimensions w x h x d | 305 x 74 x 233 mm | Phase shift | 0 – 360° |
| Weight | 2.5 kg | Flash performance | 3.5 Ws |
| Certified to | IEC 601-1, CE acc. to MDD | Protection class | I |
| Power Input | 20 VA | Operating Temperature | 10° – 40° |
| Flash light energy level | 2.5 Ws (pulse energy) | Humidity | 5% – 95% |
| Triggerable frequency | 80 – 1400 Hz | Temperature | 20° – 60° |
| | | Classification | Ila |

Components/Spare Parts see chapter 16

Striking detail



With the μ -PULSAR, KARL STORZ offers a product for portable stroboscopy.

Image documentation can normally be carried out by connecting a camera head to the respective telescope in conjunction with the KARL STORZ TELE PACK.

The system can be connected directly to KARL STORZ laryngoscopes. One of the most important advantages of the power system is therefore its mobility. The small, lightweight and compact KARL STORZ μ -PULSAR can easily be carried in a lab coat and breast pockets or stored in a drawer.

Quality/comfort:

- Lightweight (180 g)
- Integrated LED

Mobility:

- Device locks directly onto the endoscope's light port

Operative efficiency:

- No need to change lamp

Special Features:

- Noiseless
- Documentation possible
- Lightweight
- No separate light source required
- No separate light cable required
- Rechargeable lithium-ion batteries free from memory effect
- All KARL STORZ loupe laryngoscopes can be used



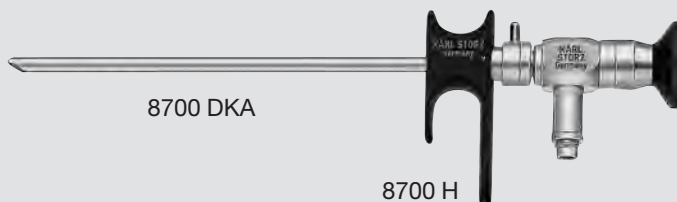
40 1500 20

40 1500 01 **KARL STORZ μ -PULSAR**, for laryngeal stroboscopy

HOPKINS® Telescopes

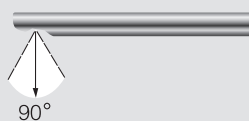
for Laryngo-Pharyngoscopy

Direction of View 90°



8700 DKA

8700 H



8700 DKA

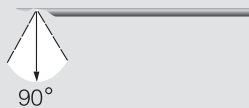
Tele-Laryngo-Pharyngoscope, with integrated HOPKINS® lateral telescope 90°, diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue

8700 H

Handle, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



8707 DA



8707 DA

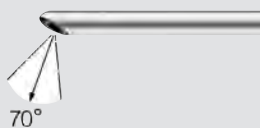
Tele-Laryngo-Pharyngoscope, with integrated HOPKINS® lateral telescope 90°, 4x magnification focusing device, diameter 10 mm, length 15 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue

Please note: For instruments for indirect laryngoscopy see pages 359-362

HOPKINS® Telescopes

for Laryngo-Pharyngoscopy

Direction of view 70°

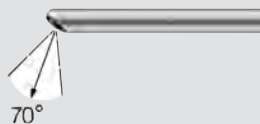


8700 CKA

8700 H

8700 CKA **BENJAMIN Tele-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°, angle of view 50°, diameter 5.8 mm, length 19 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

8700 H **Handle**, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



8705 CKA

8705 H

8705 CKA **BENJAMIN Slimline Tele-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°, angle of view 50°, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

8700 H **Handle**, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



8706 CA

8706 CA **Strobe-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°, oval sheath, 7.2 x 9.3 mm, working length 17 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

Please note: For instruments for indirect laryngoscopy see pages 359-362

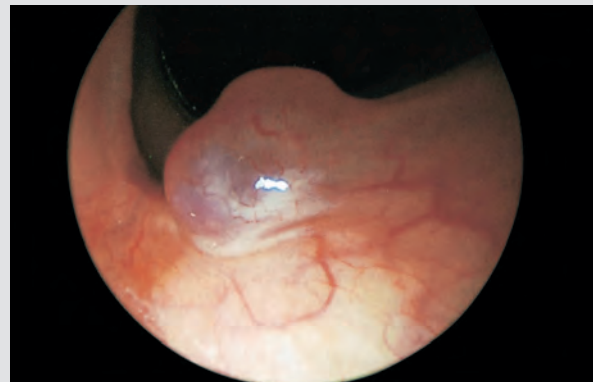
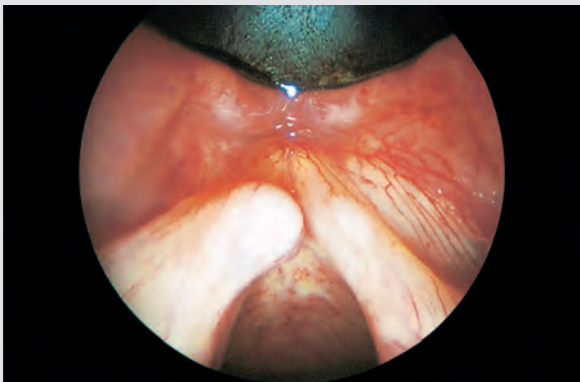
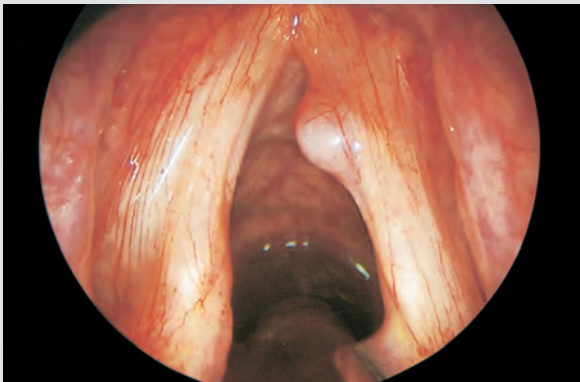
Rigid Endoscopy associated with Microlaryngeal Surgery (REMS)

Prof. ANDREA and Prof. DIAS

Endoscopic procedures in general, including techniques carried out in the office and microlaryngoscopy, only enable the observation of the larynx along a vertical axis. This imposes limitations on the diagnosis and physiopathological interpretation of diseases, as well as on treatment and follow-up. Research work on laryngeal microanatomy conducted by the authors reinforced the need to assess the larynx from different perspectives in order to improve the evaluation of pathological findings. This led to the systematic use of rigid endoscopes with different angles of vision (0°, 30°, and 70°) during endotracheal intubation. **Rigid Endoscopy associated with Microlaryngeal Surgery (REMS)** significantly enhances the ability to assess the larynx and offers high quality imaging, even of regions that are traditionally difficult to explore, such as the inferior surface and free

border of the vocal cords, the anterior commissure, the ventricles and the subglottis. Parameters considered important for the evaluation of premalignant and malignant lesions can be analyzed in greater detail, due to the multiperspective approach and the HOPKINS® II telescopes from KARL STORZ. REMS is also beneficial for the assessment of benign pathological indications of the vocal cords and for subsequent excision. REMS is easy to perform and, apart from the rigid telescopes which were specifically designed for this application, it requires no equipment other than that which is required for conventional laryngeal endoscopy.

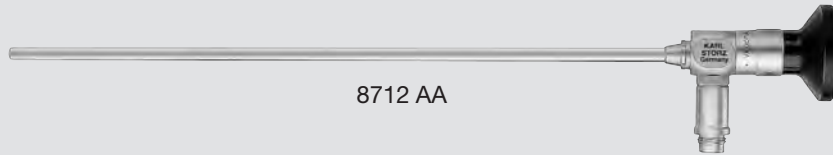
*Prof. M. ANDREA, M. D. and Prof. O. DIAS, M. D.,
Universidade de Lisboa, Serviço de Otorhinolaringologia,
Lisbon, Portugal*



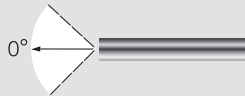
Multiperspective assessment of a vocal cord polyp using rigid endoscopes 8712 AA/BA/CA (0°, 30° and 70°). The diameter and length of these endoscopes allow observation of all regions of the larynx with regular endotracheal intubation.

HOPKINS® II Telescopes

for Rigid Endoscopy associated with Microlaryngeal Surgery (REMS),
Prof. ANDREA and Prof. DIAS



8712 AA



8712 AA

HOPKINS® II Straight Forward Telescope 0°,
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: green



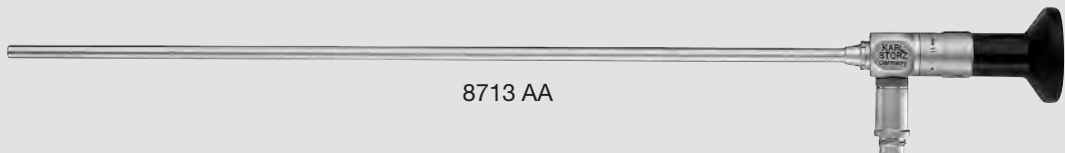
8712 BA

HOPKINS® II Forward-Oblique Telescope 30°,
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: red

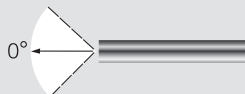


8712 CA

HOPKINS® II Lateral Telescope 70°,
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: yellow



8713 AA



8713 AA

HOPKINS® II Straight Forward Telescope 0°,
enlarged view, diameter 5 mm, length 29 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: green



15006 B



15006 C



15006 D

Antifog Solution

- 15006 B "ULTRA STOP" Antifog Solution, 25 ml, pipette bottle
- 15006 C "ULTRA STOP" Antifog Solution, 30 ml, sterile, pierce bottle
- 15006 D "ULTRA STOP" Antifog Solution, 15 ml, atomizer bottle



Fiber Optic Light Cables

- 495 NL **Fiber Optic Light Cable**, diameter 3.5 mm, length 180 cm
- 495 NA **Same**, length 230 cm

Fluid Light Cables

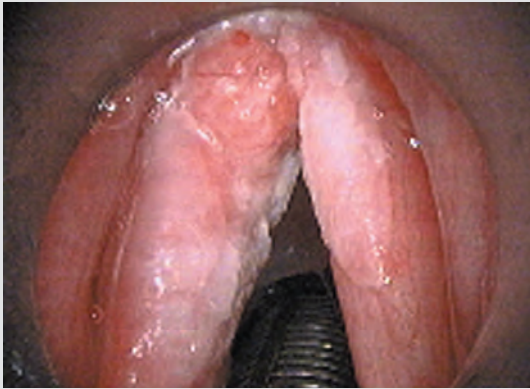
- 495 FO **Fluid Light Cable**, diameter 3 mm, length 180 cm
- 495 FP **Same**, length 250 cm

Trays for telescopes see catalog HYGINENE

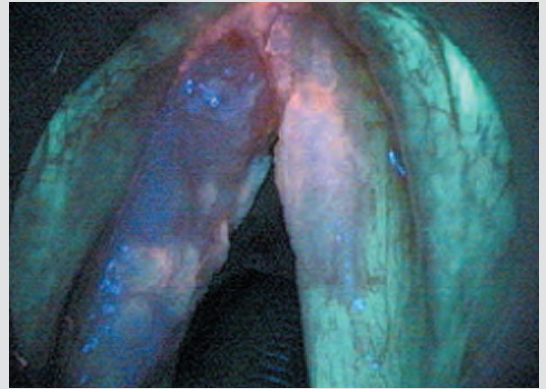
White Light Endoscopy (Microlaryngoscopy) vs. Autofluorescence

Diagnosis:

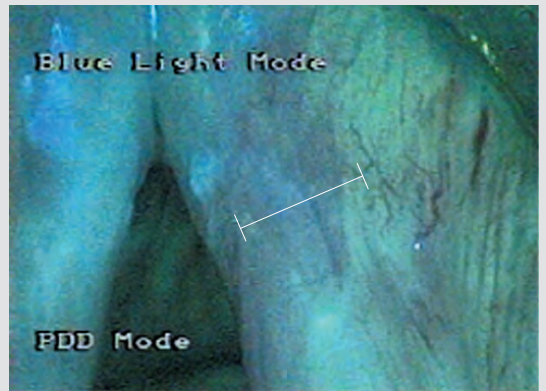
White Light



Autofluorescence



Keratinizing squamous cell carcinoma on the left, with moderately dysplastic ramifications towards the right vocal cord

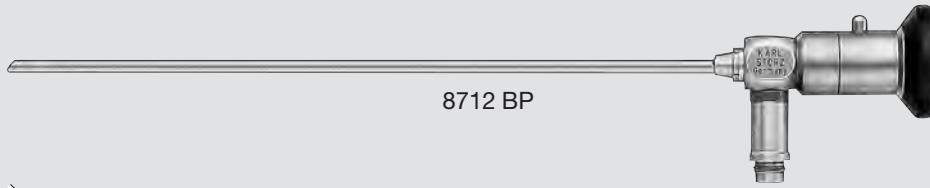


Focal squamous epithelium dysplasia of moderate degree (concomitant with epidermization and focal leucoplasia) only visible in the autofluorescence image by way of of the fluorescence reduction in the marked area (2 patients)

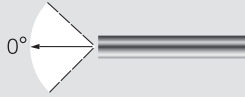
11-03

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Direct Laryngo-Pharyngoscopy



8712 BP



8712 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8712 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red

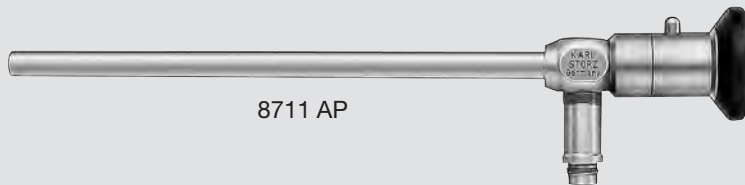


8712 CP

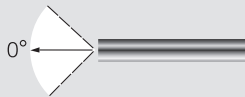
HOPKINS® II Lateral Telescope 70°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

495 FP

Fluid Light Cable, diameter 3 mm, length 250 cm



8711 AP

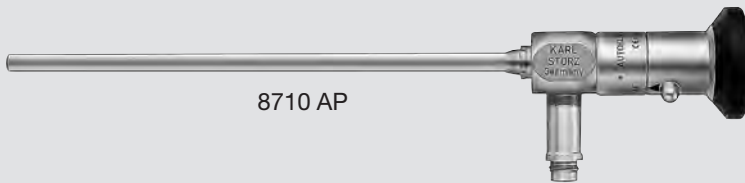


8711 AP

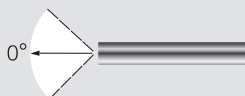
HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm



8710 AP



8710 AP

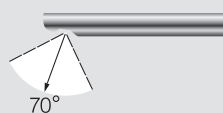
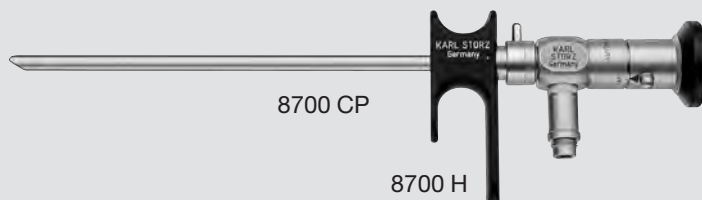
HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Indirect Laryngo-Pharyngoscopy

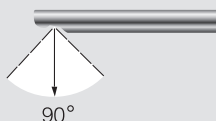


8700 CP

Tele-Laryngoscope, with integrated HOPKINS® lateral telescope 70°, for autofluorescence/photodynamic diagnosis (PDD), angle of view 50°, diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

8700 H

Handle, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA

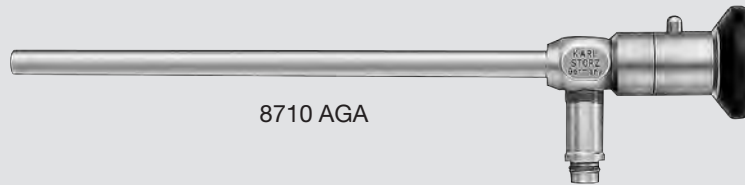


8707 DP

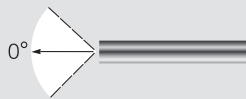
Tele-Laryngo-Pharyngoscope, with integrated HOPKINS® lateral telescope 90°, for autofluorescence/photodynamic diagnosis (PDD), 4x magnification, focusing device, **autoclavable**, diameter 10 mm, working length 15 cm, fiber optic light transmission and filter exchanger incorporated, color code: blue

495 FP

Fluid Light Cable, diameter 3 mm, length 250 cm

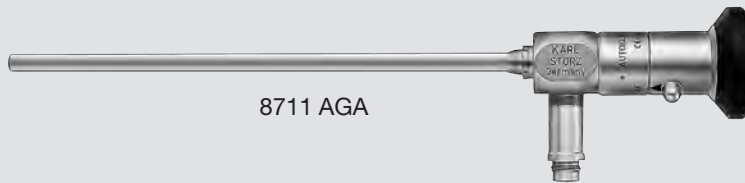


8710 AGA

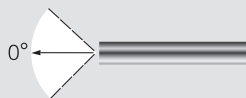


8710 AGA

HOPKINS® Straight Forward Telescope 0°, for perfusion assessment, autofluorescence and white light diagnosis, diameter 5.8 mm, length 19 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8711 AGA



8711 AGA

HOPKINS® Straight Forward Telescope 0°, enlarged view, for perfusion assessment, autofluorescence and white light diagnosis, diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

For further informationen and instruments for ICG angiography see chapter 13, FLUORESCENCE

HAVAS Operating Laryngoscope

The HAVAS video laryngoscope from KARL STORZ is a significant step forward in endoscopic laryngeal surgery.

The HAVAS operating laryngoscope comprises the following components:

- Video laryngoscope
- Integrated light carrier/telescope holder
- Telescopic sheath protector

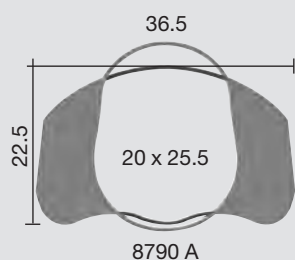
The laryngoscope enables visualization of the supraglottic and glottic airway. Furthermore, the angulation of the tip provides a view of areas that are difficult to see such as the anterior commissure and the anterior part of the laryngeal ventricles.

The cut-out lateral ports at the proximal end of the laryngoscope allow the introduction of standard instruments or the malleable HAVAS **LaryngoFIT**® instruments for microsurgery. This facilitates endoscopic bimanual surgery using a monitor rather than an operating microscope.

T. HAVAS

MB. BS (SYD), MD. (UNSW) FRCSE FRACS FACS
 A/Professor Conjoint UNSW
 Suite 506, 1 Newland Street
 Bondi Junction, NSW, Australia

Dimensions in mm:
 proximal and distal



8790 A



8790 B



8790 A/B

- 8790 A HAVAS **Operating Laryngoscope**, with extra light handle, large model, length 17 cm, with connector for Light Carrier 497 HC
- 8790 B HAVAS **Operating Laryngoscope**, with extra light handle, medium model, length 17 cm, with connector for Light Carrier 497 HC

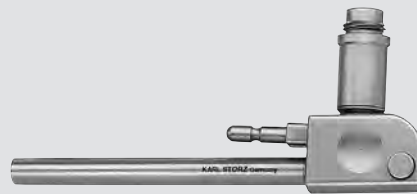
HAVAS Operating Laryngoscope

Accessories

The combination of a light carrier with integrated telescope holder facilitates the introduction of the laryngoscope with illumination. The telescopic sheath protector enables the introduction of any 4 mm standard telescope (0/30/45/70/90/120°). The telescope is inserted in the sheath and then anchored in the integrated light source/telescope holder. This enables detailed endo-

scopic examination of all parts of the larynx, such as the laryngeal ventricles or the anterior commissure.

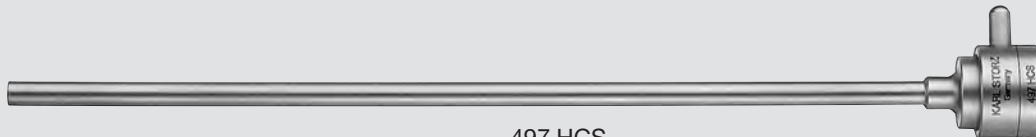
*T. HAVAS
MB. BS (SYD), MD. (UNSW) FRCSE FRACS FACS
A/Professor Conjoint UNSW
Suite 506, 1 Newland Street
Bondi Junction, NSW, Australia*



497 HC

497 HC

HAVAS **Light Carrier**, with integrated telescope channel diameter 5 mm, for proximal illumination, for use with Laryngoscope 8790 A/B



497 HCS

497 HCS

Telescope Protective Sheath, outer diameter 5 mm, length 20 cm, for use of Light Carrier 497 HC with Telescopes 7230 AA, BA, CA, DA, EA, FA

HAVAS LaryngoFIT® Instruments

Accessories

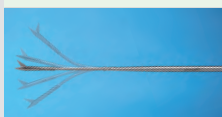
Special Features:

- Malleable distal end enables adjustment of the working end according to individual needs
- Inserts can be locked into three different positions
- Can be completely dismantled
- Cleaning by means of a LUER connector

Working Attachment

for use with
Metal Handle

Working Length 25 cm



LaryngoFIT® HAVAS Forceps, malleable

| | | |
|--|----------|-----------------------------------|
| | 8791 AZ | round cupped jaws, 2 mm, straight |
| | 8793 AZ | serrated, straight |
| | 8793 GHZ | serrated, triangular, straight |

LaryngoFIT® HAVAS Scissors, malleable

| | | |
|--|---------|----------|
| | 8794 AZ | straight |
|--|---------|----------|

550000

Please note:

Metal Handle 550000 is **not** included in delivery. Please order separately.

Video Laryngoscopy

Advantages of video laryngoscopes compared to operation microscopes:

- Clear, sharp imaging
- The laryngoscope spatula does not restrict the field of vision
- The wide angle of view of the HOPKINS® telescope provides a larger overview behind the distal end of the laryngoscope
- Better access to the anterior commissure
- No operation fatigue
- Simplifies the work of the assistant
- Images can be documented immediately
- Ideal for training purposes



Advantages:

With this method the binocular operation microscope is replaced by the KARL STORZ video system. This system guarantees the best possible conditions for:

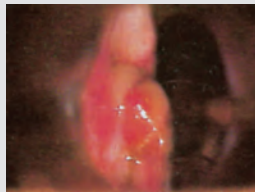
- operating
- documentation
- teaching of microlaryngological operation techniques

When connected to a video printer, this system enables high quality instant printouts to be made as a source of information for:

- physician referral
- radiologists
- oncologists



Microscope



Microscope



Video Laryngoscope



Video Laryngoscope

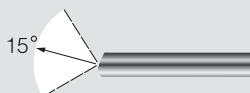
For Video Documentation Systems and Light Sources see catalog TELEPRESENCE

KANTOR-BERCI Video Laryngoscopes

Model IV



8575 AV



8575 AV

HOPKINS® Straight Forward Telescope 15°, diameter 4 mm, length 17 cm, **autoclavable**, 45° angled eyepiece, fiber optic light transmission incorporated, color code: green



8590 JV



8590 TV

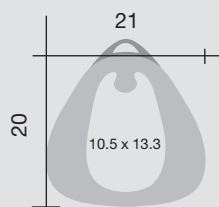
Full size illustration:
inner diameter in mm
proximal and distal



8590 JV

8590 JV

KANTOR-BERCI Video Laryngoscope, model IV, for adults, length 18 cm, enlarged proximal opening, curved distal tip especially designed to elevate the epiglottis and for placement of the anterior commissure, telescope guide tube integrated inside the lumen, with adaptor for HOPKINS® Telescope 8575 AV, for use with distal Fiber Optic Light Carrier 8590 GF or proximal Light Clip 497 AC, Vapor Suction Tube 8590 M and Laryngoscope Holder 8575 K or 8575 KC



8590 TV

8590 TV


Same, for adolescents and adults, length 17 cm, for use with proximal Light Clip 497 AC and Laryngoscope Holder 8575 K or 8575 KC

Accessories for KANTOR-BERCI Video Laryngoscopes see page 580





For use with KANTOR/BERCI Video-Laryngoscopes, Model IV


Special feature of the miniature forceps with cupped jaws and scissors:

- Distal end with 10° upwards curve provides better access to anterior commissure








8591 BV

| | | |
|---|---------|--|
|  | 8591 AV | KLEINSASSER Spoon Forceps , 2 mm, straight, sheath conically reinforced from distal to proximal end, distal end curved upwards 10°, with cleaning connector, working length 23 cm |
|  | 8591 BV | Same , curved upwards 45° |
|  | 8591 CV | Same , curved to right |
|  | 8591 DV | Same , curved to left |




8594 CV

| | | |
|---|---------|---|
|  | 8594 AV | KLEINSASSER Scissors , straight, sheath conically reinforced from distal to proximal end, distal end curved upwards 10°, with cleaning connector, working length 23 cm |
|  | 8594 BV | Same , curved upwards 45° |
|  | 8594 CV | Same , curved to right |
|  | 8594 DV | Same , curved to left |



8602 KV
8603 KV

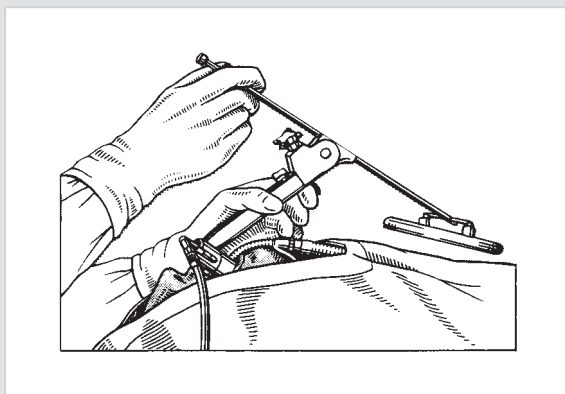
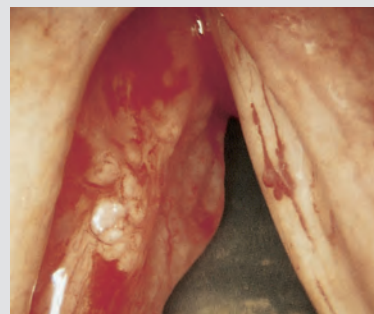
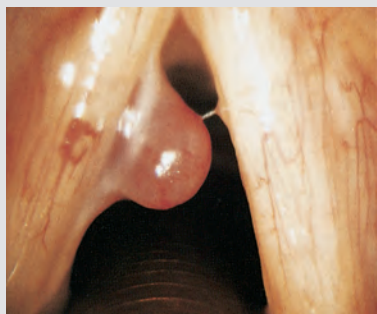
| | | |
|---|---------|---|
|  | 8602 KV | KLEINSASSER Suction Tube , ball end, curved upwards, outer diameter 2 mm, working length 23 cm |
| | 8603 KV | Same , outer diameter 3 mm |

Original KLEINSASSER Operating Laryngoscopes

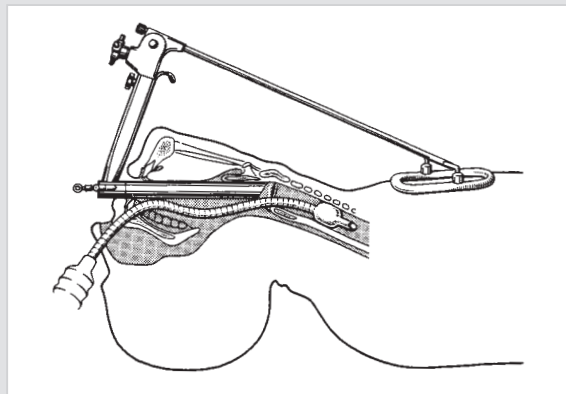
A complete set of laryngoscopes for adults and children are available. These laryngoscopes allow a good view of the laryngeal area, even under difficult anatomical conditions, such as limited oral aperture and short, thick, stiff necks. Uniform pressure distribution with reduced danger of tooth damage is provided by the flat support area of the laryngoscope against the teeth. A tooth guard to help protect the teeth and gums is also available. The laryngoscopes have smooth surfaces and are easy to clean and sterilize.

The chest support can be placed directly against the thorax. Special tables and support devices can be used with this chest support if required.

Small diameter grasping and cutting instruments are available. These instruments have a thin, but very rigid sheath which allows exact control during surgery within the laryngeal area.



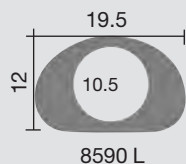
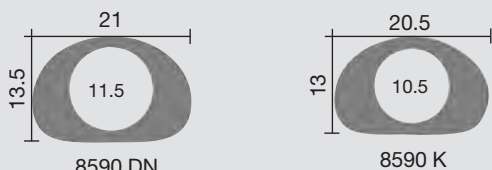
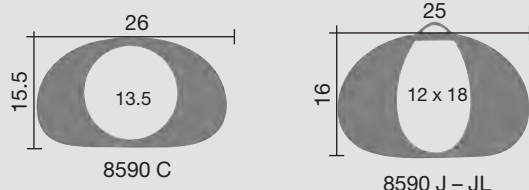
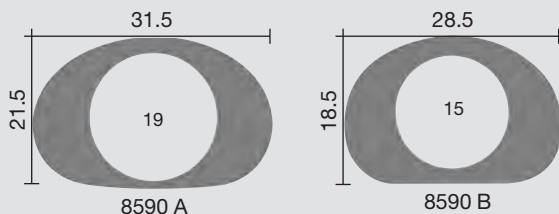
Placement of the chest support after introduction of the laryngoscope.



Final adjustment of the laryngoscope before the beginning microlaryngoscopy.

Original KLEINSASSER Operating Laryngoscopes

Full size illustration:
inner diameter in mm proximal and distal



8590 A - L 8590 GF - HF

8590 A **KLEINSASSER Operating Laryngoscope**,
for adults, extra large, length 17 cm

8590 B **Same**, large

8590 C **Same**, medium (most commonly
used model)

8590 DN **Same**, small, length 18 cm
(for particularly difficult
anatomical circumstances)

8590 J **Same**, medium, length 18 cm
(for anterior commissure)

8590 JL **Same**, medium, length 22 cm
(for especially long neck)

8590 K **Same**, for children, small,
length 15 cm

8590 L **Same**, for infants, small,
length 13 cm

497 AC **Clip**, for proximal illumination

8590 GF **Fiber Optic Light Carrier**, for distal
illumination, working length 14 cm, for
use with Laryngoscopes 8590 A - JL

8590 HF **Fiber Optic Light Carrier**, for distal
illumination, working length 7.5 cm,
for use with Laryngoscopes 8590 K - L

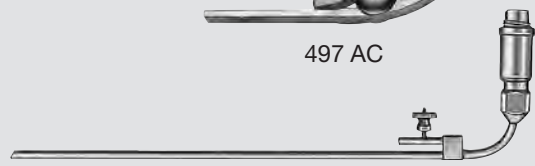
8590 KC **Injection Cannula**, for positive pressure
assisted ventilation, working length 8.5 cm,
for use with Laryngoscopes 8590 A - L

8590 M **Suction Tube to remove vapor**,
for LASER treatment, diameter 3 mm,
working length 12.5 cm, for use with
Laryngoscopes 8590 A - JL

8590 N **Suction Tube, to remove vapor**,
for LASER treatment, diameter 3 mm,
working length 9 cm, for use with
Laryngoscopes 8590 K - L



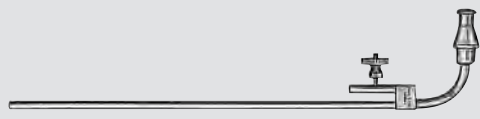
497 AC



8590 GF - HF



8590 KC



8590 M - N

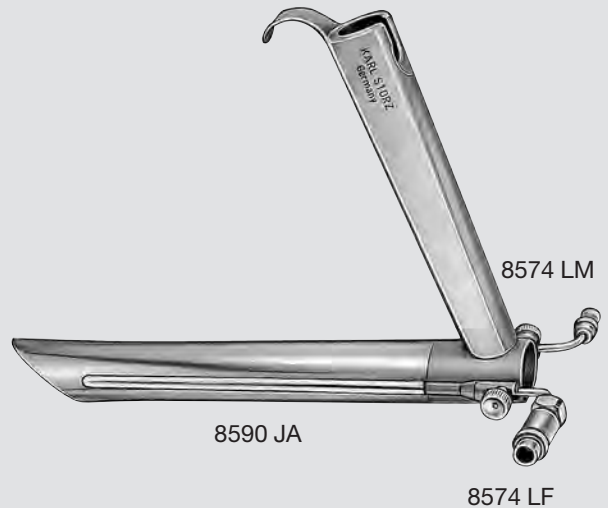
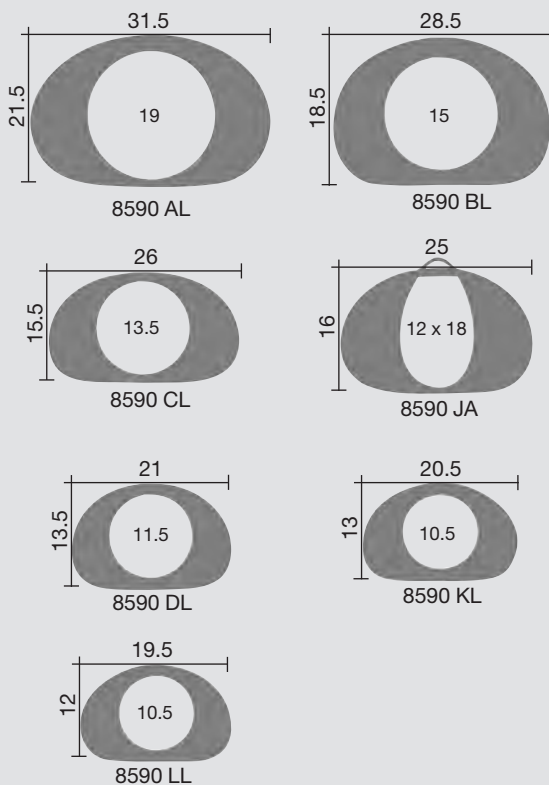
KLEINSASSER Operating Laryngoscopes

modified by RUDERT

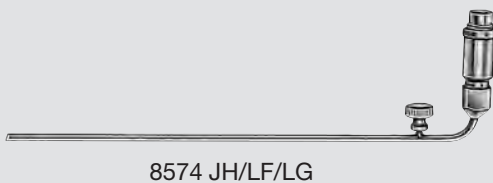
Special Features:

- Proven conical KLEINSASSER design
- Modified by RUDERT with right and left lateral outer channels used for smoke evacuation and/or for fiber optic light carrier
- Full lumen working capacity, unobstructed view, operating instruments cannot get caught

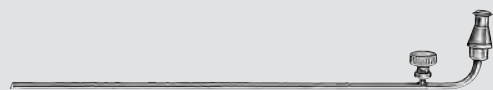
Full size illustration:
inner diameter in mm proximal and distal



- 8590 AL **KLEINSASSER Laryngoscope**, extra large, modified by RUDERT for CO₂ LASER surgery, for adults, with lateral outer channels for suction tube to remove vapor and/or for fiber optic light carrier, length 17 cm
- 8590 BL **Same**, large
- 8590 CL **Same**, medium
- 8590 DL **Same**, small, length 18 cm
- 8590 JA **Same**, medium, length 18 cm, for anterior commissure
- 8590 KL **Same**, for children, length 15 cm
- 8590 LL **Same**, for infants, length 13 cm
- 8574 JH **Fiber Optic Light Carrier**, for distal illumination, length 12 cm, for use with Laryngoscopes 8574 J/JP and 8590 LL
- 8574 LF **Same**, length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C
- 8574 LG **Same**, length 14 cm, for use with Laryngoscope 8590 KL
- 8574 JK **Suction Tube, to remove vapor**, for LASER treatment, length 12 cm, for use with Laryngoscopes 8574 J/JP and 8590 LL
- 8574 LM **Same**, length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C
- 8574 LN **Same**, length 14 cm, for use with Laryngoscope 8590 KL



8574 JH/LF/LG



8574 JK/LM/LN

3-99

Triangle Anterior Commissure Laryngoscopes

Most laryngoscopes have a round or oval distal opening, which is not optimally suited to the triangular shaped glottis (Fig. 1, left). It is therefore frequently not possible to focus on the anterior commissure with these laryngoscopes. The so-called "anterior commissure tubes" with upturned distal end shift the larynx and thus the anterior third of the glottis forwards out of the field of view. In addition to this, the curve of the tube end impedes the view of the anterior commissure (Fig. 2).

Taking up the idea of Vaughan, we developed a laryngoscope for examining the anterior commissure. Its

distal end is not upturned, but is shaped like the ridge of a roof. The triangular shape means that the distal opening fits into the similarly triangular shape of the glottis (Fig. 1, right). The laryngoscope offers a good view of the glottis from the anterior commissure right to the arytenoid region.

The laryngoscope is available in 2 sizes. The smaller one is the universal tube. The larger one is suitable for large larynxes in adults with edentulous upper jaws.

*Prof. emer. H. RUDERT, M. D.,
Universitätsklinik Kiel, Germany*

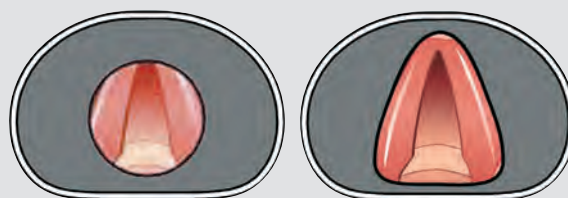


Fig. 1. Focus of distal laryngoscope on the glottis: the oval or round laryngoscope (left), our triangular shaped laryngoscope for the anterior commissure (right).

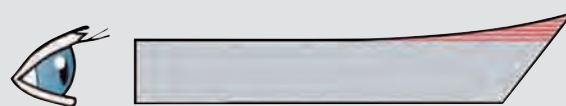
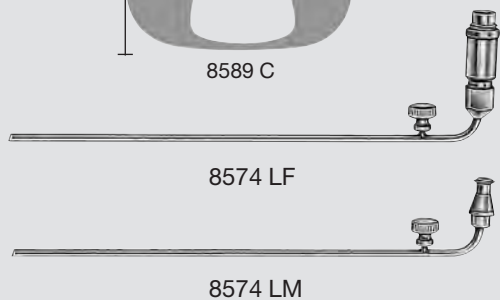
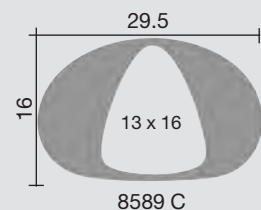
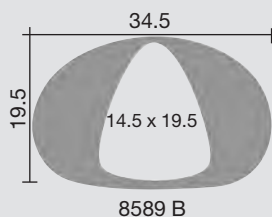


Fig. 2. The upturned distal end of the so-called "anterior commissure tube" impedes the view of the anterior commissure.



8589 B RUDERT **Anterior Commissure Laryngoscope**, large, triangular spatula-shaped, with lateral outer channels for Fiber Optic Light Carrier 8574 LF or Suction Tube to remove vapor 8574 LM, length 17 cm, (version with wide lumen for special cases)

8589 C **Same**, medium, universal size, (most commonly used model)

8574 LF **Fiber Optic Light Carrier**, for distal illumination, length 16 cm, for use with Laryngoscopes 8590 AL/BL/C/CL/DL/JA and 8589 B/C

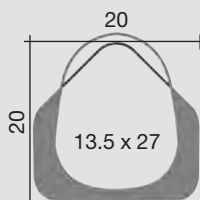
8574 LM **Suction Tube to remove vapor**, for LASER treatment, length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C

DEDO Operating Laryngoscope

Special Features:

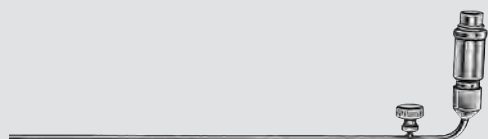
- The DEDO laryngoscope enables a view of the glottis from the anterior commissure right to the arytenoid region.
- Thin tube diameter allows universal use in adults.
- The distal end of the laryngoscope is shaped like a rounded "V" for enhanced visualization.
- Proximal design allows visualization of the anterior commissure.
- Comfortable handle design and low overall weight enables convenient handling.

Dimensions in mm:
proximal and distal



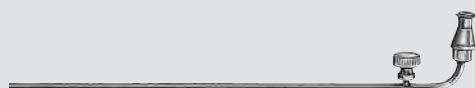
8890 A

8890 A DEDO Operating Laryngoscope,
with extra light handle, length 18 cm



8574 LG

Fiber Optic Light Carrier, for distal illumination, length 14 cm, for use with Laryngoscope 8890 A

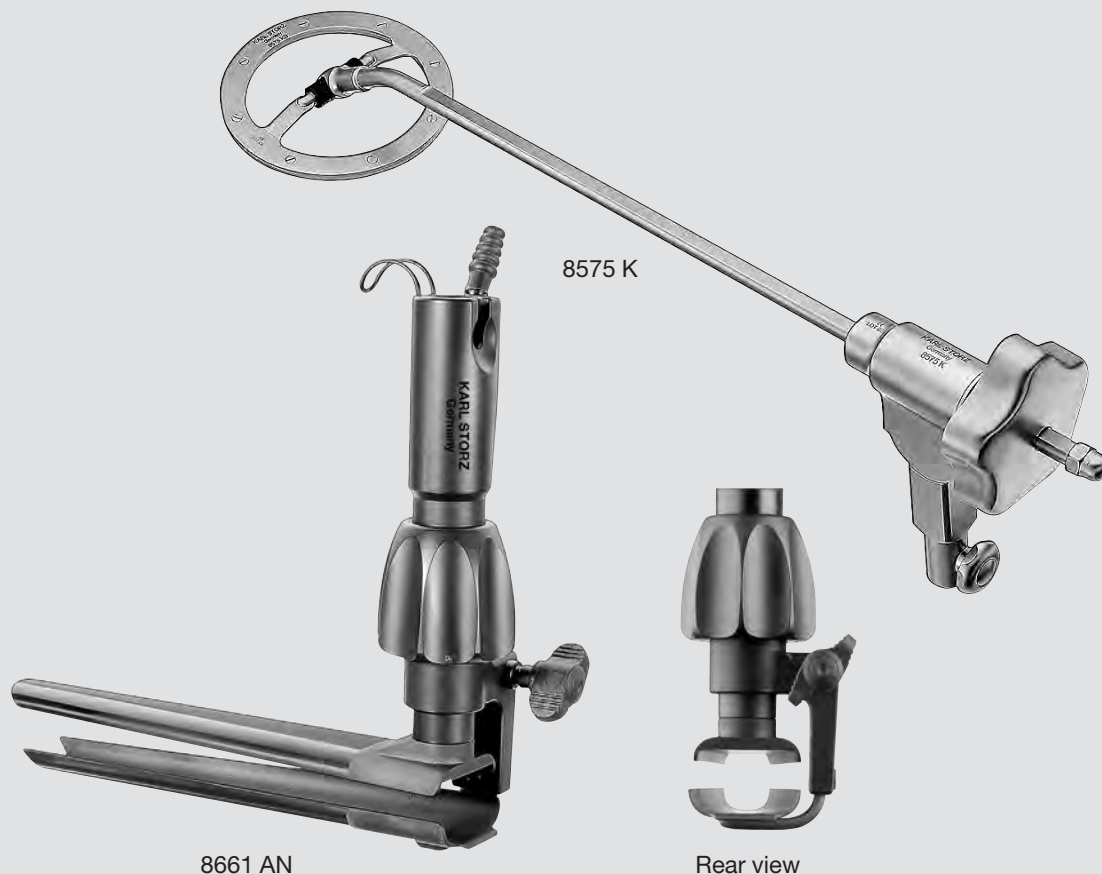


8574 LN

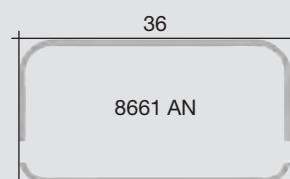
Suction Tube to remove vapor, length 14 cm, for use with Laryngoscope 8890 A

STEINER Distending Operating Laryngoscopes

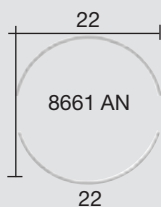
for Transoral LASER Microsurgery



Outer dimensions in mm:
proximal



distal



Width of valves: max. 35,
min. 19

Width of valves: max. 50,
min. 19



497 AC

8661 AN

8661 AN

8575 K

497 AC

Rear view

STEINER Distending Operating Laryngoscope, for adults, with black coating, channel removing vapor integrated in handle and blade, length 18 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

Laryngoscope Holder and Chest Support, GÖTTINGEN model, with adjustment wheel including:

Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm

Clip, for proximal illumination

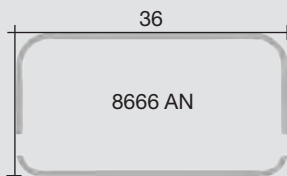
Components/Spare Parts see chapter 16

STEINER Distending Operating Laryngoscope and Oropharyngoscope

for Transoral LASER Microsurgery



Outer dimensions in mm:
proximal



Width of valves: max. 30,
min. 19

distal



Width of valves: max. 43,
min. 21

8666 AN

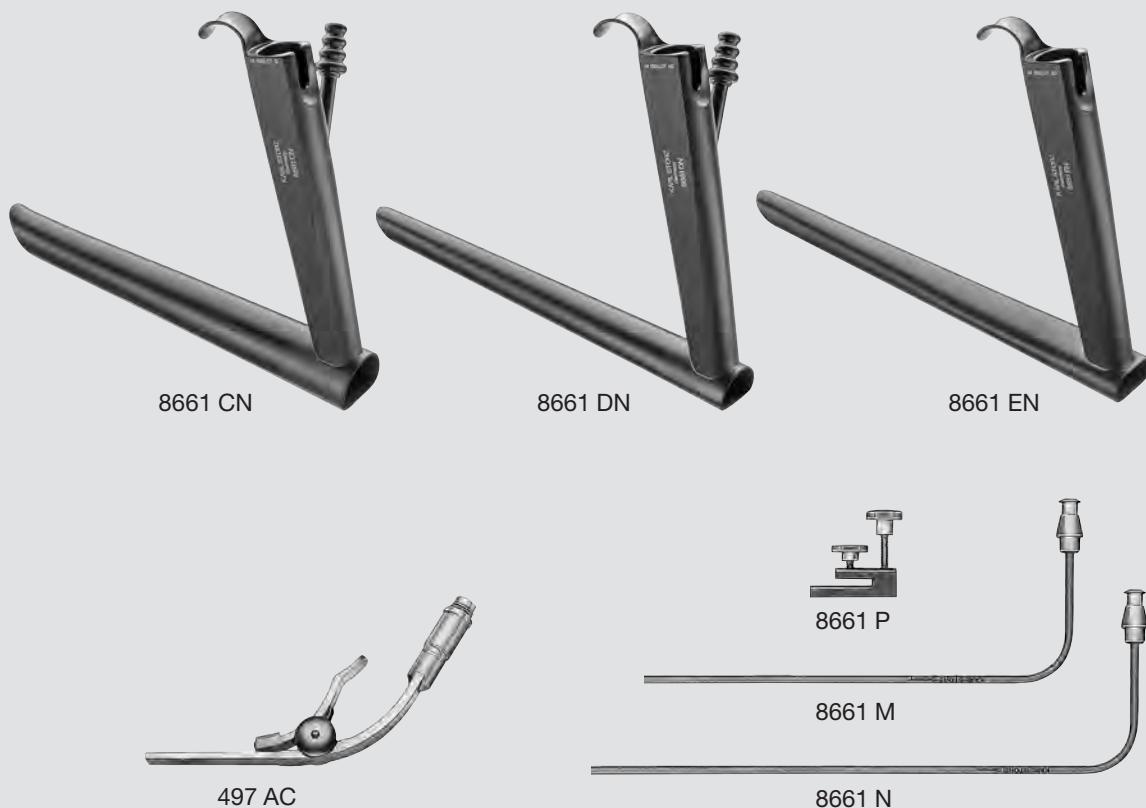
STEINER Distending Operating Laryngoscope, for adults, with black coating, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 18 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

8666 DN

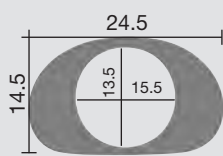
STEINER Distending Operating Oropharyngoscope, for adults, with black coating, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 14 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

STEINER Operating Laryngoscopes

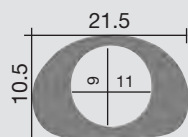
for Transoral LASER Microsurgery
with integrated channel to remove vapor



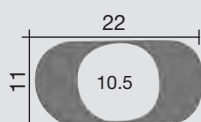
Full size illustration:
inner diameter in mm
proximal and distal



8661 CN



8661 DN



8661 EN

8661 CN

STEINER Operating Laryngoscope, medium-large, for adults, with black coating, with integrated channel to remove vapor, outer diameter proximal 26 x 18 mm, length 18 cm

8661 DN

STEINER Operating Laryngoscope, small, for adults with difficult anatomical circumstances and for children, with black coating, with integrated channel to remove vapor, outer diameter proximal 23 x 15 mm, length 19 cm

8661 EN

STEINER Operating Laryngoscope, extra small size, for difficult anatomical circumstances, with black coating, flat, outer diameter proximal 24 x 13 mm, length 20 cm, for use with Suction Tube 8661 M/N

8661 M

Suction Tube to remove vapor, for LASER treatment, outer diameter 3 mm, working length 16 cm, for use with operating laryngoscopes and Adaptor 8661 P

8661 N

Same, working length 20 cm

8661 P

Adaptor, for Suction Tube 8661 M/N, attachable to the laryngoscope's proximal end, allows continuous adjustment of the suction tube within the laryngoscope

497 AC

Clip, for proximal illumination

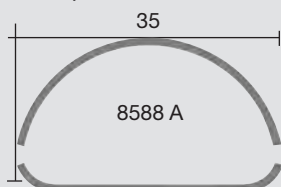
WEERDA Distending Operating Laryngoscopes

Special Features:

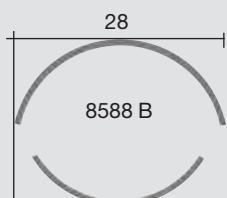
- Two adjustment screws enable distending and adaptation to every anatomy. Lateral adjustment screw allows the lumen to be expanded by 38 – 30 mm. Front adjustment screw enables maximal distal distending of the lower spatula blade.
- Small dimensions of laryngoscope when spatula are closed ease introduction
- Wide lateral slots provide largest possible working area for micro surgical instruments
- Use of additional suction tubes to remove vapor during laser surgery ensures that overview is not obstructed.



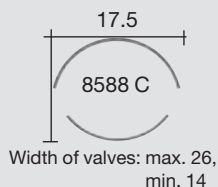
Outer dimensions in mm:
proximal



Width of valves: max. 30,
min. 18

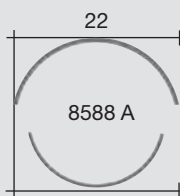


Width of valves: max. 35,
min. 23

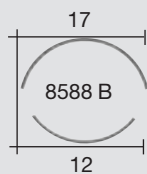


Width of valves: max. 26,
min. 14

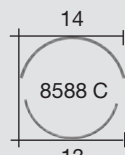
distal



Width of valves: max. 65,
min. 15



Width of valves: max. 57,
min. 10



Width of valves: max. 47,
min. 11.5

- 8588 A **WEERDA Distending Operating Laryngoscope**, large, for adults, length 18 cm
- 8588 B **Same**, for adolescents and adults
- 8588 C **WEERDA Distending Operating Laryngoscope**, for children, length 13.5 cm
- 8588 GF **Fiber Optic Light Carrier**, for use with Laryngoscopes 8588 A/B
- 8588 GP **Same**, for use with Laryngoscopes 8588 C
- 8588 K **Injection Cannula**, for positive pressure assisted ventilation, for use with 8588 A/B/BV
- 8588 M **Suction Tube to remove vapor**, for LASER treatment, for use with Laryngoscopes 8588 A/B/BV
- 8588 MP **Same**, for use with Laryngoscope 8588 C

WEERDA Distending Video Operating Laryngoscope

Transoral partial laryngectomy and pharyngectomy using the WEERDA distending video laryngoscope

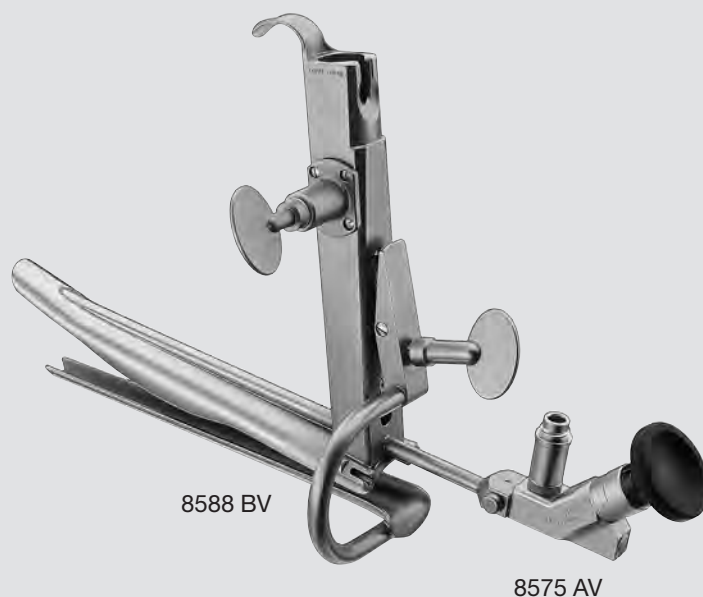
With conventional microlaryngeal surgery, because surgical procedures are performed through a narrow laryngoscope under the guidance of a surgical microscope, the visual field is limited and working space is narrow. In addition, the visual field is often blocked when two hands are used. These disadvantages have limited its indications.

In order to resolve these issues, we use the WEERDA distending video laryngoscope (a conventional WEERDA distending laryngoscope and a HOPKINS® telescope).

Characteristics of the WEERDA distending video laryngoscope

With the present system, because the laryngeal/hypopharyngeal region can be widely opened, a sufficient working space and a wide visual field can be achieved. As a result, surgical procedures that used to require tracheostomy or external cervical incision can now be performed transorally. Supraglottic laryngectomy and partial hypopharyngectomy can also be performed with less invasiveness. In addition to such surgical procedures for laryngeal and hypopharyngeal cancers, the present system is useful for various procedures in the laryngeal, hypopharyngeal and lingual root regions. Hence, surgery in these regions is less invasive.

*A. SHIOTANI, M. D.,
Professor and Chairman,
Department of Otolaryngology-Head and Neck Surgery,
National Defense Medical College,
Saitama, Japan*



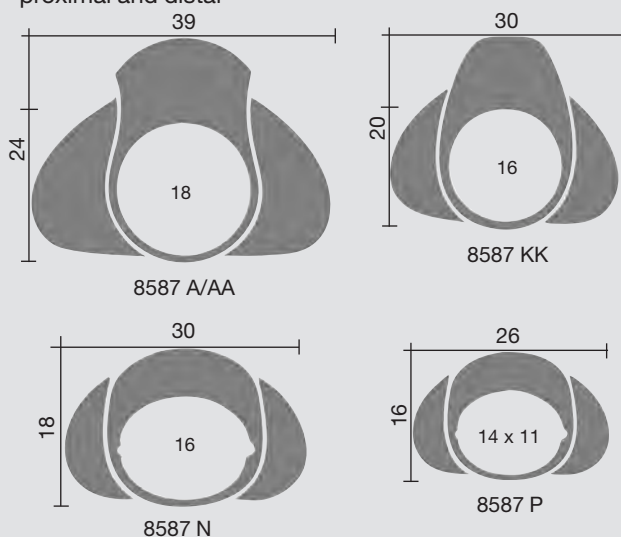
- 8588 BV WEERDA **Distending Video Operating Laryngoscope**, for adolescents and adults, for operation under video control, with channel and holder for Telescope 8575 AV, length 17 cm, for use with Fiber Optic Light Carrier 8590 GF, Suction Tube to remove vapor 8588 M, Injection Cannula 8588 K and Laryngoscope Holder and Chest Support 8575 K
- 8575 AV **HOPKINS® Straight Forward Telescope 15°**, diameter 4 mm, length 17 cm, **autoclavable**, 45° angled eyepiece, fiber optic light transmission incorporated, color code: green

Original LINDHOLM and BENJAMIN-LINDHOLM Operating Laryngoscopes

Special Features:

- Panoramic overview of the laryngopharynx
- View of the epiglottis, arytenoids, posterior commissure, pyriform sinuses and cricoid region

Full size illustration:
inner diameter in mm
proximal and distal



8587 GF



8587 PF



8587 K



8587 M/MK



8587 PM

8587 A

LINDHOLM Operating Laryngoscope, large, for adults, inner proximal end 39 x 24 mm, distal end width 18 mm, length 15 cm

8587 AA

Same, length 17 cm

8587 KK

Same, for children, inner proximal end 30 x 20 mm, distal end width 16 mm, length 11 cm

8587 N

BENJAMIN-LINDHOLM Operating Laryngoscope, for children, inner proximal end 30 x 18 mm, distal end width 20 mm, length 11.5 cm

8587 P

BENJAMIN-LINDHOLM Operating Laryngoscope, for newborn babies and infants, inner diameter proximal end 26 x 16 mm, distal end 14 x 11 mm, length 9.5 cm

8587 GF

Fiber Optic Light Carrier, for distal illumination, length 7.5 cm, for use with Laryngoscopes 8587 A/AA/KK

8587 PF

Same, length 6.5 cm, for use with Laryngoscopes 8587 N/P

8587 K

Injection Cannula, for positive pressure assisted ventilation, length 8.5 cm, for use with Laryngoscopes 8587 A/AA/KK

8587 M

Suction Tube to remove vapor, for LASER treatment, length 8.5 cm, for use with Laryngoscopes 8587 A/AA

8587 MK

Same, length 7 cm, for use with Laryngoscope 8587 KK

8587 PM

Same, length 6.5 cm, for use with Laryngoscope 8587 N/P

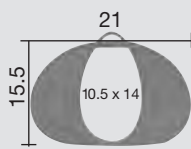
Original BENJAMIN and BENJAMIN-PARSONS Slimline Operating Laryngoscopes and Subglottoscopes

Special Features:

- Appropriate for patients whose larynx is difficult to inspect
- For micro surgery and LASER surgery
- Light clip for proximal illumination
- Quickly and easily attachable to the laryngoscope

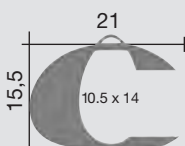


Full size illustration:
inner diameter in mm proximal and distal



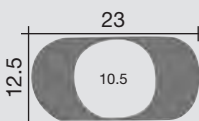
8574 SL

8574 SL **BENJAMIN Slimline Operating Laryngoscope and Subglottoscope**, for adults, slender, length 17 cm, for use with Clip 497 AC



8574 SLS

8574 SLS **BENJAMIN-PARSONS Slimline Operating Laryngoscope and Subglottoscope**, for adults, slender, right-hand side slotted for the introduction of bronchoscopes and tracheal tubes, length 17 cm, for use with Clip 497 AC

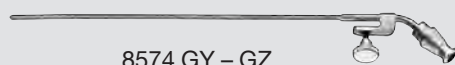


8574 SSL

8574 SSL **BENJAMIN-PARSONS Super-Slimline Operating Laryngoscope and Subglottoscope**, for adults, extra slender, flat model, for particularly difficult anatomical circumstances, length 17 cm, for use with Clip 497 AC



497 AC **Clip**, for proximal illumination



8574 GY **BENJAMIN Injection Cannula**, for positive pressure assisted ventilation, malleable, diameter 2 mm, working length 13.5 cm

8574 GZ **Same**, diameter 3 mm

Original PARSONS Adult Operating Laryngoscopes

Special Features:

- Wide proximal end – suitable for binocular inspection
- Superior surface of size 4 and 5 is rough to prevent tongue from sliding into the lumen.
- Easy use of instruments



8576 AA

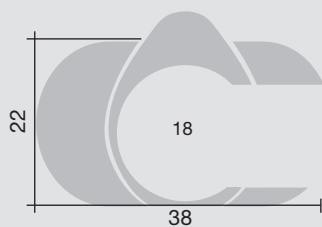


8576 A

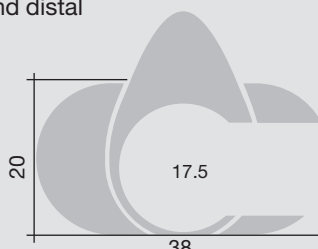


8576 B

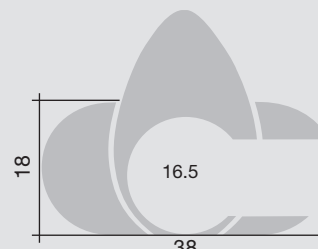
Full size illustration:
inner diameter in mm proximal and distal



8576 AA

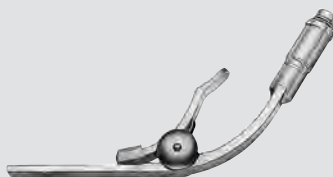


8576 A



8576 B

- 8576 AA **PARSONS Operating Laryngoscope**, size 6, for adults, large, for anterior commissure, wide proximal opening suitable for binocular viewing, right-hand side slotted for introduction of broncho-oesophagoscopes and operating instruments, left-hand side with insufflation channel for oxygen supply, anesthetic gas or for jet ventilation, length 18 cm, for use with Clip 497 AC for proximal illumination
- 8576 A **Same**, size 5, for adolescents and adults, medium-large, length 16.5 cm
- 8576 B **Same**, size 4, for children up to age 12, medium, length 14.5 cm



497 AC

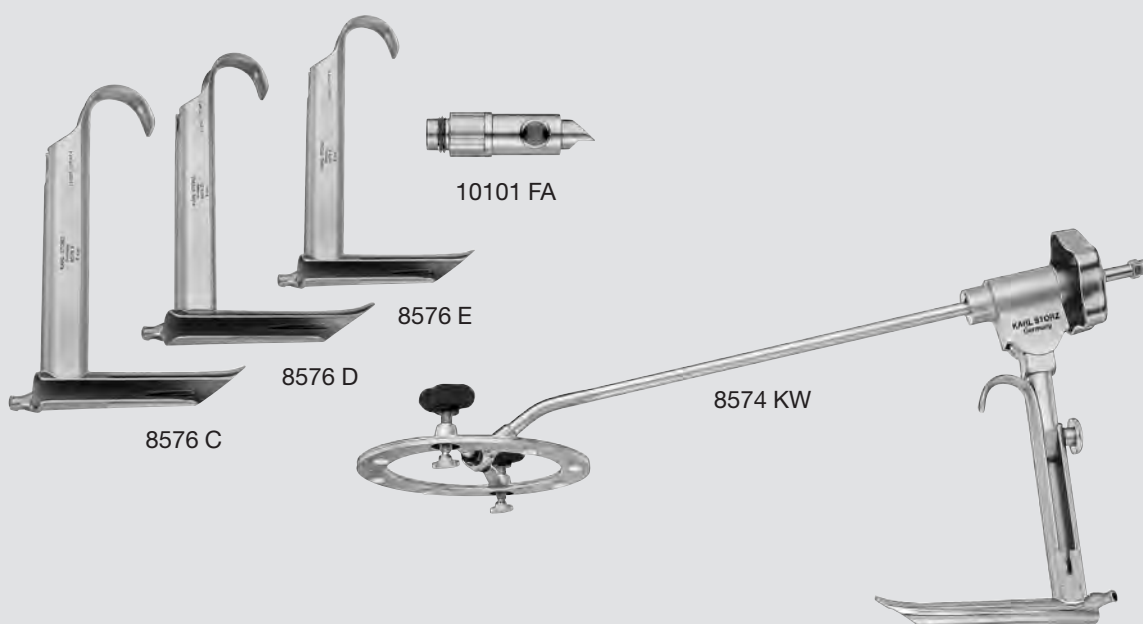
- 497 AC **Clip**, for proximal illumination

Original PARSONS Pediatric Laryngoscopes

with Proximal Illumination

Special Features:

- Enlarged proximal end enables binocular viewing
- Lateral insufflation channel for anesthetic gas and oxygen supply
- Also appropriate for jet ventilation
- Wide lateral slit allows introduction of bronchoscopes and esophagoscopes and enlarges the lumen of the laryngoscope for better binocular inspection
- Flat anterior tip enables better positioning in the anterior commissure or vallecula. Simultaneous use of a telescope provides a panoramic view
- Superior surface is rough to prevent tongue from sliding into the lumen, thereby ensuring a view of supraglottic structures
- Complete set in 3 sizes for premature babies, newborn babies and infants up to 4 years old



8576 C PARSONS Laryngoscope, size 3, for toddlers, flat distal end for anterior commissure, wide proximal opening enable binocular viewing, right-hand side slotted for introduction of broncho-oesophagoscopes and operating instruments, left-hand side with insufflation channel for oxygen supply, anesthetic gas or jet ventilation, for use with Prismatic Light Deflector 10101 FA/JA/JUA and Laryngoscope Holder 8574 KT/KW, length 11 cm

8576 D Same, size 2, for neonates, length 9 cm

8576 E Same, size 1, for premature infants, length 8 cm

10101 FA Prismatic Light Deflector, autoclavable, with connection to fiber optic light cable (not to be used with 8574 K/KB/KT/KW)

8574 KW BENJAMIN-PARSONS Laryngoscope Holder and Chest Support, GÖTTINGEN model, with adjustment wheel including:

BENJAMIN-PARSONS Support Rod, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

Pediatric Laryngoscopes 8574 B – G and 8576 C – E are for use with the Laryngoscope Holders 8574 KT/KW only.

Components/Spare Parts see chapter 16

Original BENJAMIN and BENJAMIN-PARSONS Pediatric Operating Laryngoscope

Special Features:

- Wide proximal end for binocular inspection
- Easy use of instruments due to large access
- Lateral channels for suction tubes to remove vapor during LASER surgery and for light carrier for distal illumination
- Good illumination of the operation area



8574 J

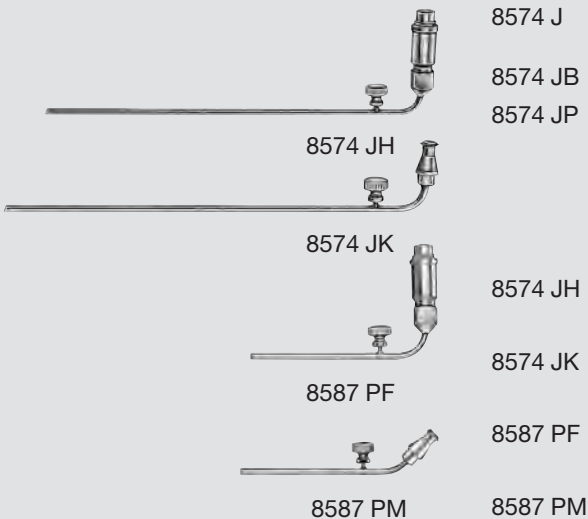
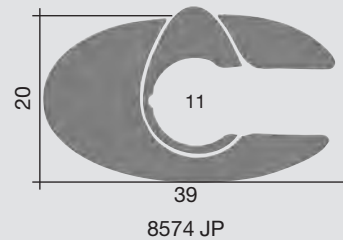
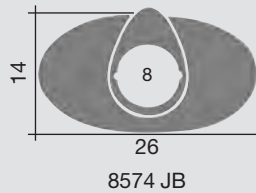
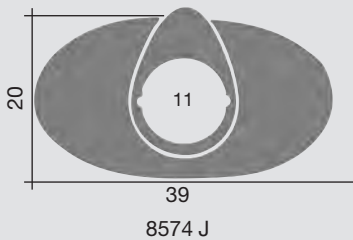


8574 JB



8574 JP

Full size illustration:
inner diameter in mm proximal and distal



8574 J BENJAMIN Operating Laryngoscope, for children, length 15 cm

8574 JB Same, small size, length 11.5 cm

8574 JP BENJAMIN-PARSONS Operating Laryngoscope, for children, lateral slit for the introduction of pediatric bronchoscopes up to size 6 and tracheal tubes, lower surface of spatula is rough to prevent tongue from slipping off, length 15 cm

8574 JH Fiber Optic Light Carrier, for distal illumination, length 12 cm, for use with Laryngoscopes 8574 J/JP

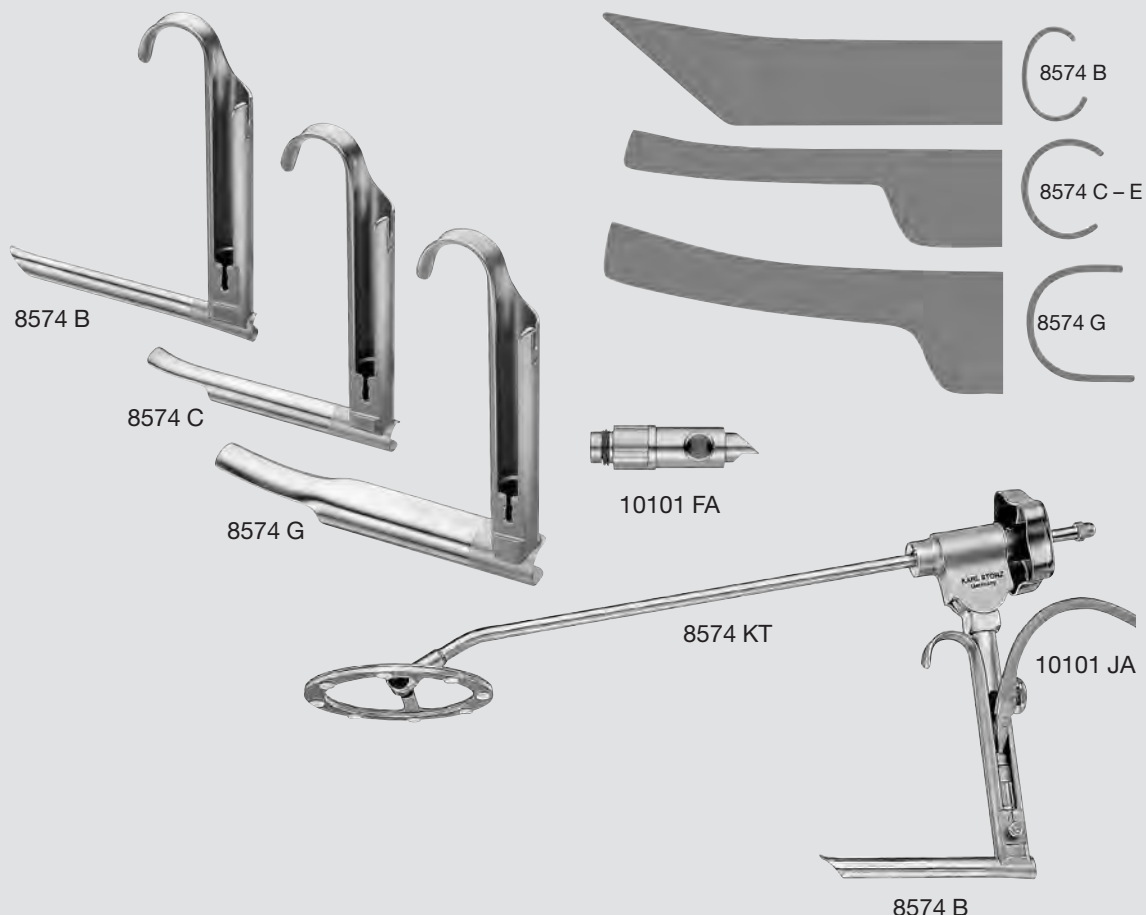
8574 JK Suction Tube to remove vapor, for LASER treatment, length 12 cm, for use with 8574 J/JP

8587 PF Fiber Optic Light Carrier, for distal illumination, length 6.5 cm, for use with Laryngoscope 8574 JB

8587 PM Suction Tube, to remove vapor, for LASER treatment, length 6.5 cm, for use with Laryngoscope 8574 JB

Pediatric Laryngoscopes

with Proximal Illumination



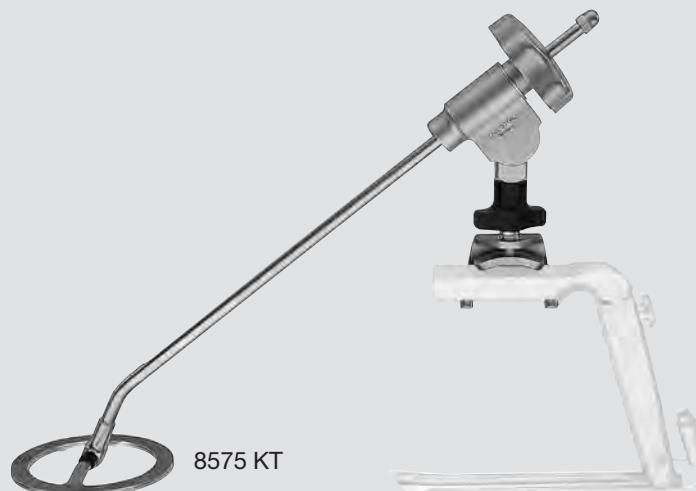
- 8574 B **HOLINGER-TUCKER Anterior Commissure Laryngoscope**, lateral opening, length 11 cm
- 8574 C **Slotted Laryngoscope**, lateral opening, length 11 cm
- 8574 D **Same**, length 9.5 cm
- 8574 E **Same**, length 8 cm
- 8574 G **BENJAMIN Slotted Laryngoscope**, lateral opening, especially appropriate for introducing pediatric bronchoscopes, length 13.5 cm
- 10101 FA **Prismatic Light Deflector**, autoclavable, with connection to fiber optic light cable
- 10101 JA **Same**, fiber optic light cable integrated (for use with 8574 KT/KW)
- 10101 JUA **Same**, autoclavable, with additional light cable for the simultaneous use of telescopes

- 8574 KT **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, with adjustment wheel including: **Support Rod**, movable, with metal ring, diameter 9 cm, length 34 cm
- or:**
- 8574 KW **BENJAMIN-PARSONS Laryngoscope Holder and Chest Support**, GÖTTINGEN model, with adjustment wheel including: **BENJAMIN-PARSONS Support Rod**, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

Pediatric Laryngoscopes 8574 B – G and 8576 C – E are for use with the Laryngoscope Holders 8574 KT/KW only.

Components/Spare Parts see chapter 16

HOLINGER Laryngoscope, LEWY Laryngoscope Holder



8575 KT



original size:

8580 B



8580 H

8575 KT
NEW

LEWY Laryngoscope Holder and Chest Support

including:

Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm

8575 KW
NEW

LEWY Laryngoscope Holder and Chest Support

including:

Support Rod, movable, with metal ring, diameter 12 cm, length 34 cm

8580 B

HOLINGER Anterior Commissure Laryngoscope, for adults, length 17 cm, with Fiber Optic Light Carrier 8580 BL and Handle 8580 H

8580 H

Laryngoscope Handle, detachable, for use with LEWY laryngoscope holder and chest support and with operating laryngoscopes

Please note:

Chest Supports 8575 GL/K/KC are not to be used with Pediatric Laryngoscopes 8576 C – E.

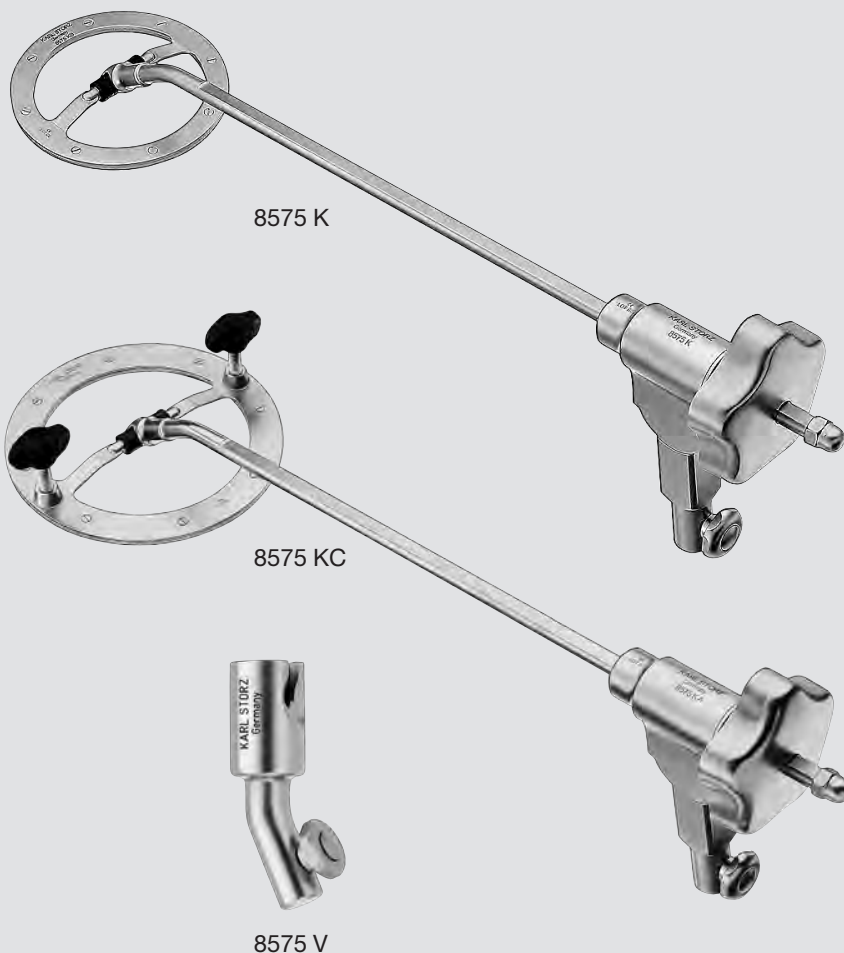
Handle 8580 H is detachable for use of Laryngoscope 8580 B, also with Chest Supports 8575 K/KC.

LEWY Chest Support 8575 GL can be adapted to Handle 8580 H.

Components/Spare Parts see chapter 16

Laryngoscope Holders

for Operating Laryngoscopes



- 8575 K **Laryngoscope Holder and Chest Support, GÖTTINGEN model,** with adjustment wheel
including:
Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm
- 8575 KC **BENJAMIN-PARSONS Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel
including:
BENJAMIN-PARSONS Support Rod, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm
- 8575 V **Extension, GRONINGEN model,** for enlargement of opening angle of support rod for overweight patients, angled, length 8 cm, for use with Laryngoscope Holder 8575 K/KC and Laryngoscopes 8574 J – JP/SL – RB, 8576 AA – B, 8580 – 8590, 8661 – 8666

Components/Spare Parts see chapter 16

Chest Support

for Laryngoscope Holders

Chest Support, GÖTTINGEN model

A special **chest support system** has been designed to meet the requirements of transoral tumor surgery in the pharynx and larynx, together with an adjustable platform that can be secured in any of three dimensional positions, allowing effortless changes in the position of the laryngo-pharyngoscope during tumor surgery.

Extremely lateral angles, as are often necessary for work in the pharynx, are easily achieved and maintained.

*Prof. emer. W. STEINER, M. D.,
Universitäts-Hals-Nasen-Ohrenklinik,
Göttingen, Germany*



8575 L

8575 L

Support Table, GÖTTINGEN model,
for Laryngoscope Holders 8575 K/KC, 8574 KT/KW,
autoclavable

including:

Swivel Arm, with movable plate

Holding Rod, for height adjustment

Attachment Blocks, can be mounted on operation
table equipped with standard sliding rail 25 x 10 mm

Components/Spare Parts see chapter 16

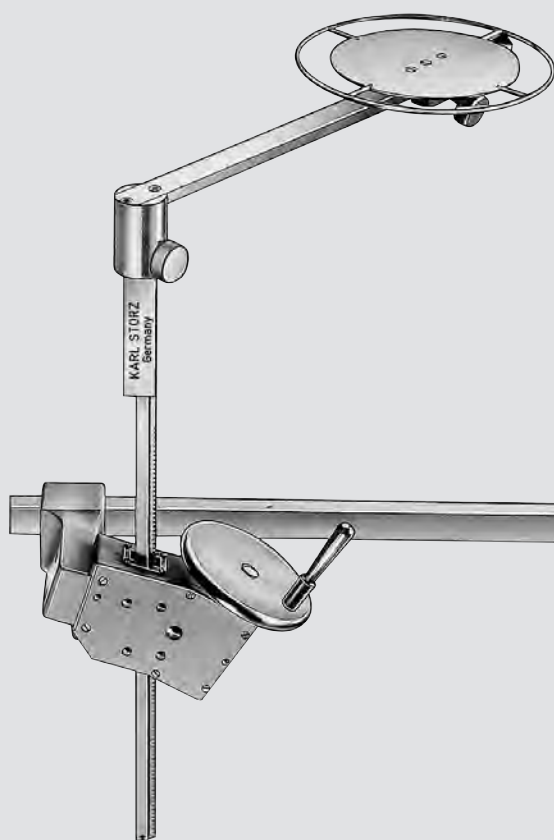
Chest Support

for Laryngoscope Holders

Chest Support, LÜBECK model

Special Features:

- Movable plate for Chest Supports 8575 K/KC, 8574 KT/KW
- Swivel holding arm
- Fine gear system complements height adjustment of chest support
- Ideal for children
- Support plate with lateral ring for attaching Tongue Spatula 743910 – 744405 for adenoidectomy and tonsillectomy



8585 S

8585 S

Chest Support, LÜBECK model, with gear system for height adjustment and swivel arm with movable plate, for use with Laryngoscope Chest Supports 8575 K/KC, 8574 KT/KW, can be mounted on OR table equipped with standard sliding rail 25 x 10 mm

Components/Spare Parts see chapter 16

LaryngoFIT® Instruments

completely detachable



The missing piece of the puzzle

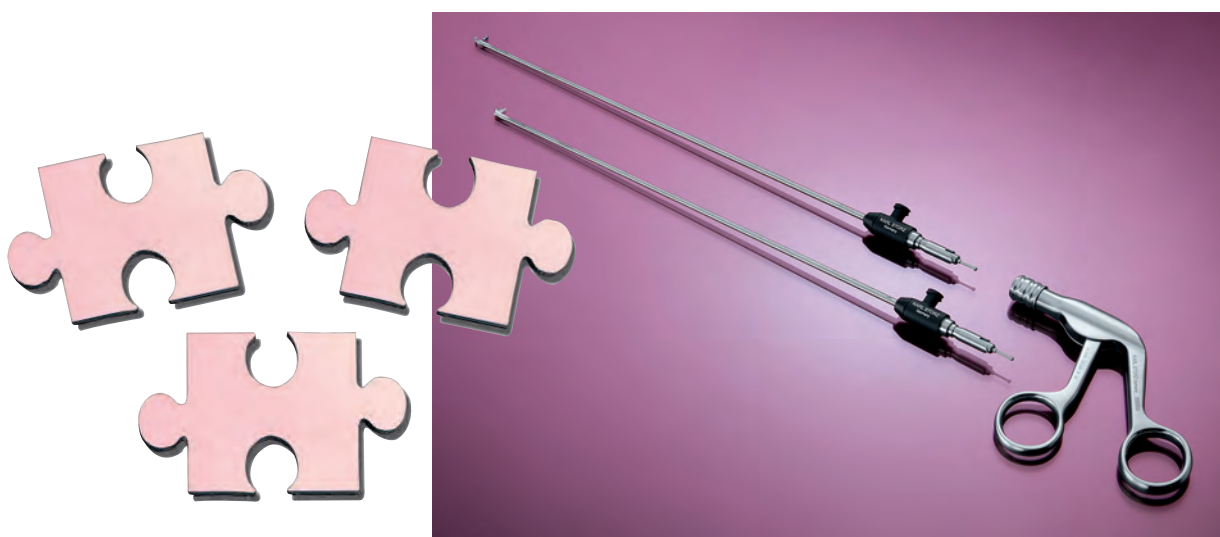
The new generation of ENT forceps from KARL STORZ

The reprocessing of instruments is increasingly in the spotlight.

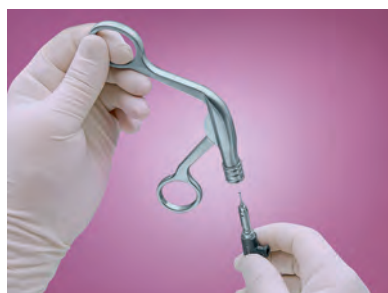
With the **LaryngoFIT®** ENT forceps from KARL STORZ, one hand movement is enough to separate the working insert from the handle. You then have 2 easy-to-clean

instrument parts without dirt traps or inaccessible channels.

Naturally, the instruments can be reassembled as quickly and easily as they can be dismantled.



Dismantling the instrument in 2 simple steps: Push the slide back...



...and pull the working attachment out of the handle.



Specially developed cleaning racks, in which the separate parts of the **LaryngoFIT®** can be connected directly to the rinsing system, ensure reprocessing.

LaryngoFIT® Instruments

completely detachable



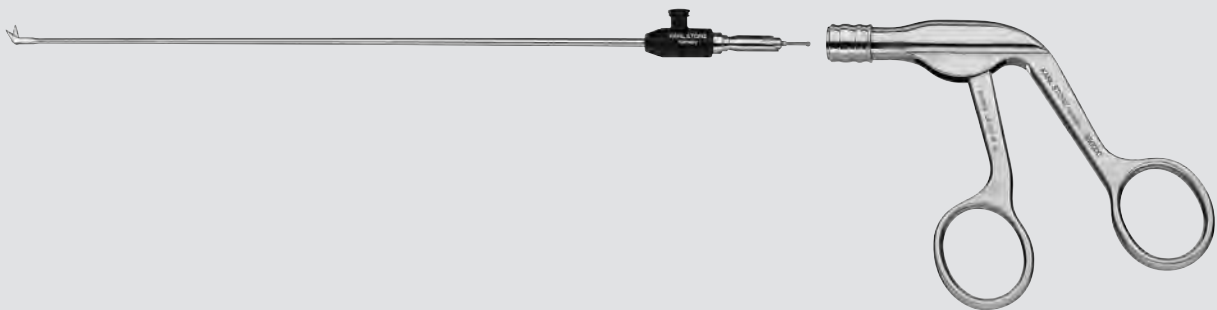
Special Features:

- Completely detachable
- Easy dismantling and reassembly
- Easy and efficient cleaning also by means of the LUER-Lock connection
- Economic advantages due to compatibility with all working attachments
- Well-balanced handle with ergonomic design
- Great variety of working inserts
- Inserts can be locked into three different positions

Two-piece design

LaryngoFIT® Instruments can be completely disassembled into separate components:

- Handle
- Working attachment

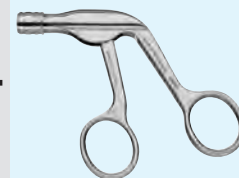




Working Attachment

for use with
Metal Handle

working length 23 cm



LaryngoFIT® KLEINSASSER Cutting Forceps, with cupped jaws, 2 mm

| | | |
|--|---------|----------------|
| | 8591 AZ | straight |
| | 8591 BZ | curved upwards |
| | 8591 CZ | curved right |
| | 8591 DZ | curved left |

LaryngoFIT® KLEINSASSER Alligator Forceps, serrated

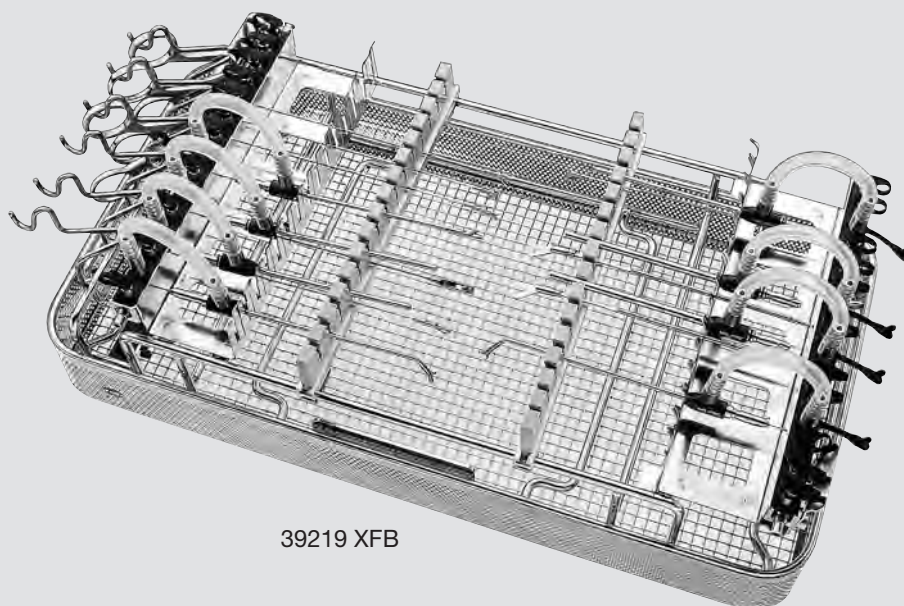
| | | |
|--|---------|----------------|
| | 8593 AZ | straight |
| | 8593 BZ | curved right |
| | 8593 CZ | curved left |
| | 8593 EZ | curved upwards |

LaryngoFIT® KLEINSASSER Scissors

| | | |
|--|---------|--------------|
| | 8594 AZ | straight |
| | 8594 BZ | angled 45° |
| | 8594 CZ | curved right |
| | 8594 DZ | curved left |

550000

Please note:
Metal Handle 550000 is **not** included. Please order separately.



39219 XFB

- 39219 XF **Instrument Rack**, with one irrigation block (standard version) for cleaning, sterilization and storage of up to 15 **LaryngoFIT®** or 15 **SinuFIT®** instrument attachments and 6 handles, incl. variable bars with silicone holder and direct connection of the instrument attachments via a multi-port bridge to the washer-disinfector and Wire Tray 39502 ZB, external dimensions (w x d x h): 480 x 250 x 160 mm
- 39219 XFB **Same for Cleaning, Sterilization and Storage** of up to 15 **LaryngoFIT®** or 15 **SinuFIT®** instrument attachments and 6 handles

Optional Accessory



39502 V

- 39502 V **Wire Tray for Cleaning, Sterilization and Storage** of instruments, with hole plate walls and foldaway handles, external dimensions (w x d x h): 228 x 248 x 45 mm

Components/Spare Parts see chapter 16

Further accessories for cleaning and sterilization see catalog HYGIENE

Please note: The instruments displayed are not included in the instrument racks.

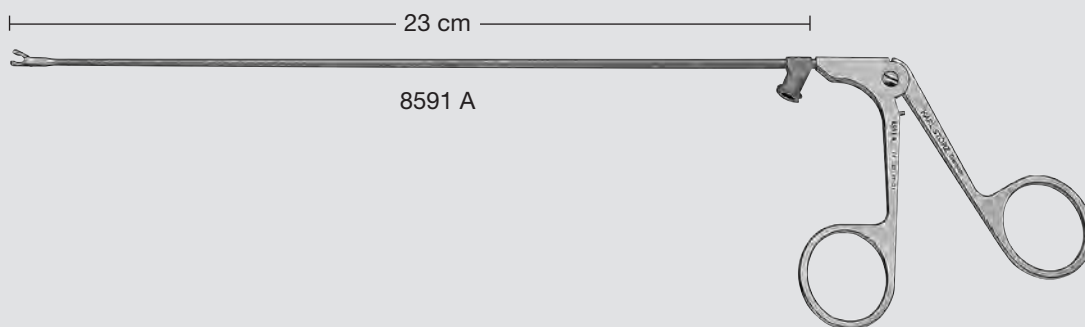
Original KLEINSASSER Instruments







for Endolaryngeal Microsurgery

Working length 23 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability

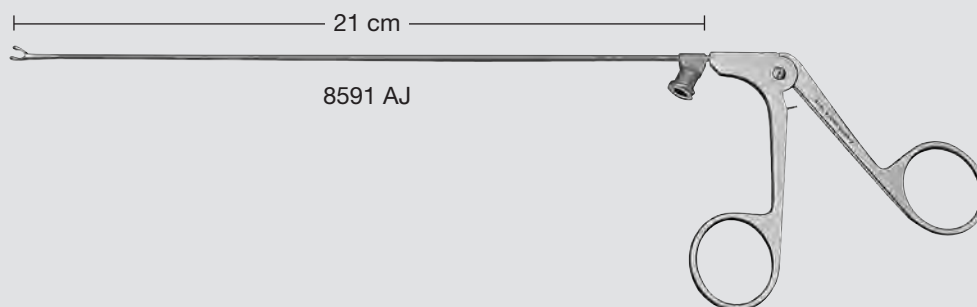


| | | |
|---|---------|--|
|  | 8591 A | KLEINSASSER Cutting Forceps , straight, with 2 mm cupped jaws, with cleaning connector, working length 23 cm |
|  | 8591 B | Same , curved upwards |
|  | 8591 C | Same , curved to right |
|  | 8591 D | Same , curved to left |
|  | 8591 EA | Same , with straight cutting edge for tangential removal of polyps on vocal cords edge, curved upwards to right |
|  | 8591 FA | Same , with straight cutting edge for tangential removal of polyps on vocal cords edge, curved upwards to left |

Original KLEINSASSER Instruments

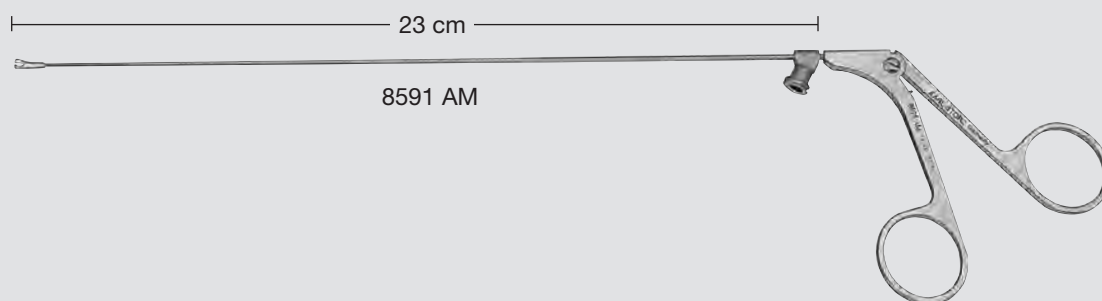
for Endolaryngeal Microsurgery

Working length 21 cm, for adolescents



| | | |
|--|---------|--|
| | 8591 AJ | KLEINSASSER Forceps , straight, with 2 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 21 cm |
| | 8591 CJ | Same , curved to right |
| | 8591 DJ | Same , curved to left |

Working length 23 cm



| | | |
|--|---------|--|
| | 8591 AM | KLEINSASSER Miniature Forceps , straight, with 1 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm |
| | 8591 BM | Same , curved upwards |
| | 8591 CM | Same , curved to right |
| | 8591 DM | Same , curved to left |
| | 8591 EM | Same , curved upwards to right |
| | 8591 FM | Same , curved upwards to left |

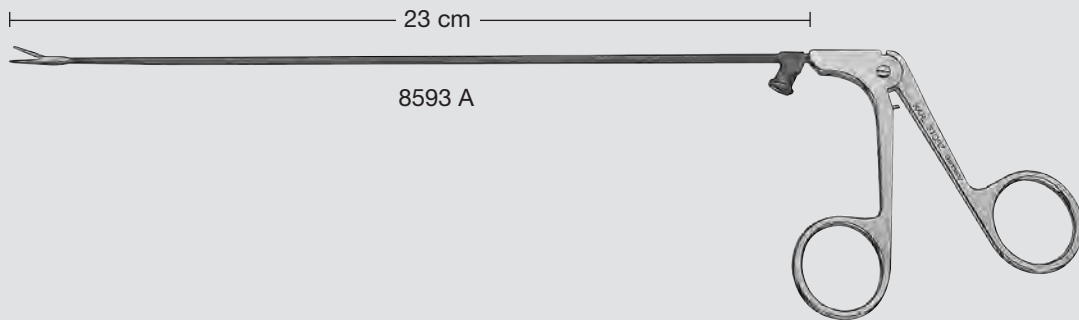
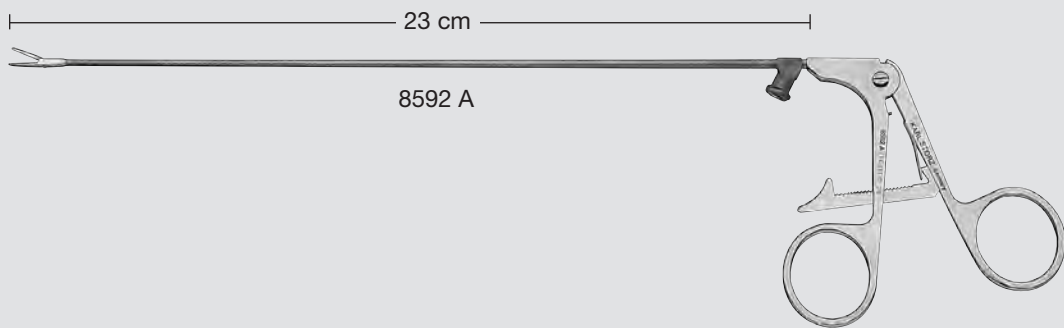
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



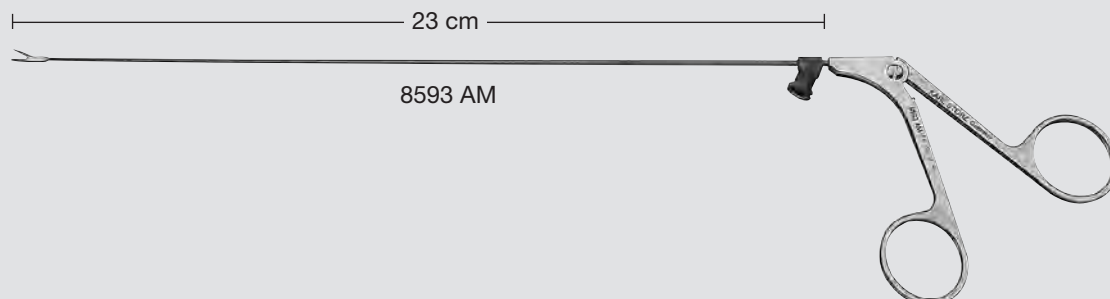
| | | |
|--|--------|--|
| | 8592 A | KLEINSASSER Artery Forceps , with ratchet, with cleaning connector, working length 23 cm |
| | 8593 A | KLEINSASSER Grasping Forceps , without ratchet, serrated, straight, with cleaning connector, straight, working length 23 cm |
| | 8593 B | Same , curved to right |
| | 8593 C | Same , curved to left |
| | 8593 E | Same , curved upwards |
| | 8593 G | Same , with triangular jaws, curved upwards to right |
| | 8593 H | Same , curved upwards to left |

3-99z

Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



8593 AM

KLEINSASSER Miniature Grasping Forceps, straight, serrated, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm



8593 BM

Same, curved to right



8593 CM

Same, curved to left

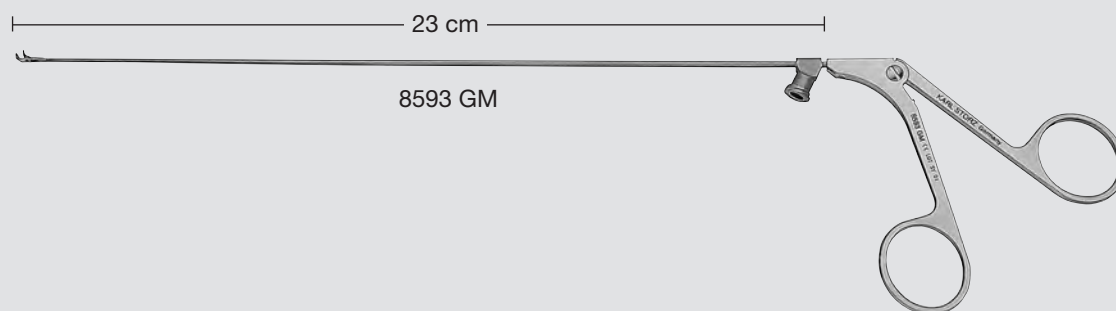


8593 EM

Same, curved upwards

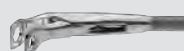
Special Features:

- **Extra fine grasping forceps, with triangular fenestrated jaws, curved upwards to right or left**



8593 GM

Miniature Grasping Forceps, extra delicate, serrated, with triangular jaws, curved upwards to right, with cleaning connector, working length 23 cm



8593 HM

Same, curved upwards to left

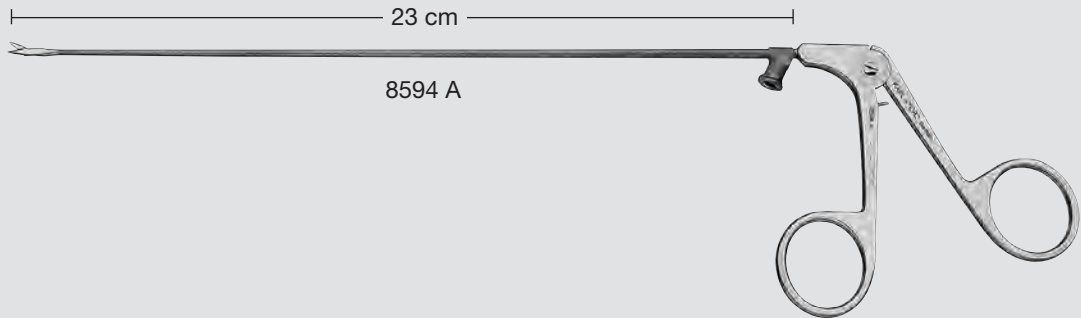
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Special Features:

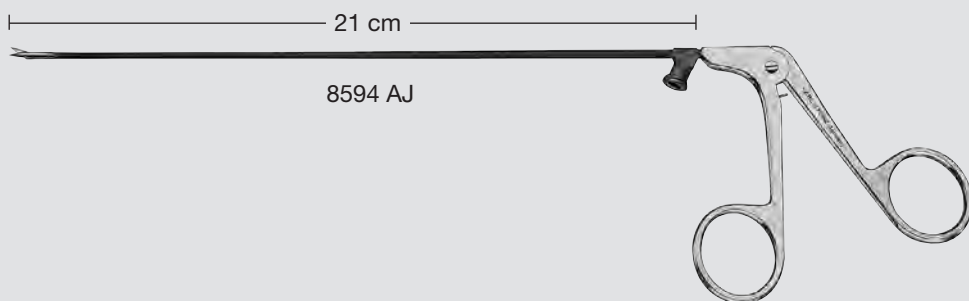
- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability

Working length 23 cm



| | | |
|--|---------|---|
| | 8594 A | KLEINSASSER Scissors , straight, with cleaning connector, working length 23 cm |
| | 8594 BB | Same , angled 15° |
| | 8594 B | Same , angled 45° |
| | 8594 C | Same , curved to right |
| | 8594 D | Same , curved to left |
| | 8594 E | Same , straight, cuts horizontally |

Working length 21 cm, for adolescents



| | | |
|--|---------|--|
| | 8594 AJ | KLEINSASSER Scissors , straight, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 21 cm |
| | 8594 CJ | Same , curved to right |
| | 8594 DJ | Same , curved to left |

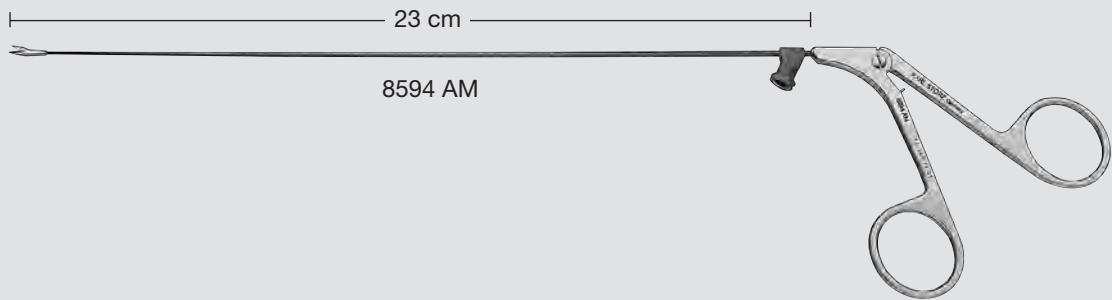
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8594 AM

KLEINSASSER **Miniature Scissors**, straight, with cleaning connector, working length 23 cm



8594 BM

Same, angled 45°



8594 CM

Same, curved to right



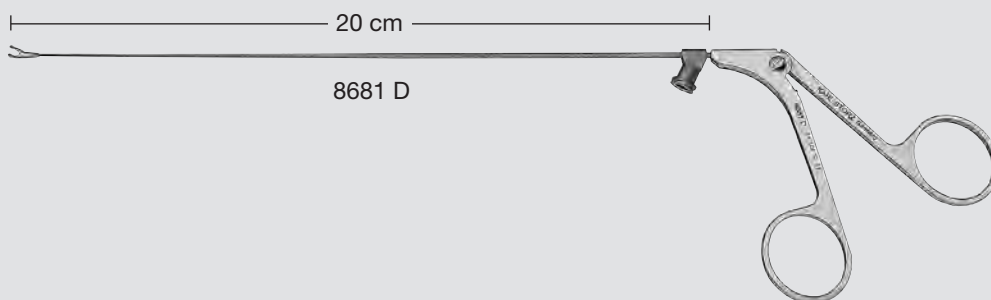
8594 DM

Same, curved to left

Working length 20 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8681 A

Micro Forceps, straight, with 1 mm cupped jaws, with cleaning connector, working length 20 cm



8681 B

Same, curved upwards



8681 C

Same, curved to right



8681 D

Same, curved to left



8683 A

Micro Grasping Forceps, straight, serrated, with cleaning connector, working length 20 cm



8683 B

Micro Grasping Forceps, curved upwards, serrated, with cleaning connector, working length 20 cm



8683 C

Same, curved to right



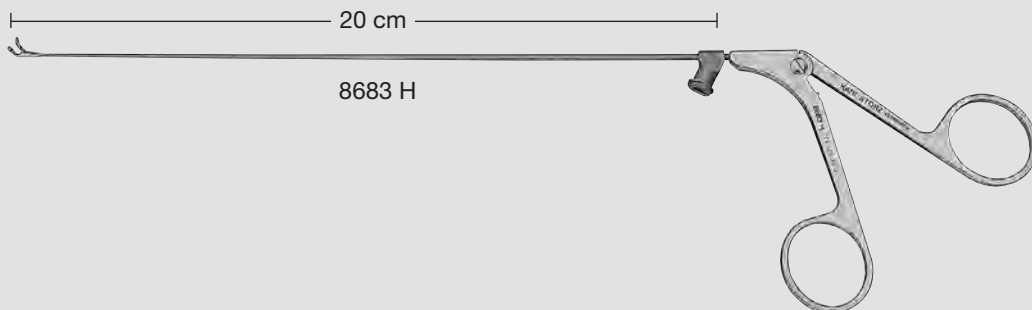
8683 D

Same, curved to left

Working length 20 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8683 G

SHAPSHAY-PERETTI Micro Grasping Forceps, curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning connector, working length 20 cm



8683 H

Same, curved upwards to left



8684 A

Micro Scissors, straight, with cleaning connector, working length 20 cm



8684 B

Same, curved upwards



8684 C

Same, curved to right



8684 D

Same, curved to left



8686 A

Micro Grasping Forceps, straight, hollow jaws, serrated tips, opens horizontally to right, with cleaning connector, working length 20 cm



8687 A

Micro Alligator Forceps, both jaws open vertically, with suction channel to remove LASER vapors, with cleaning connector, working length 20 cm

KLEINSASSER LASER Additional Instruments

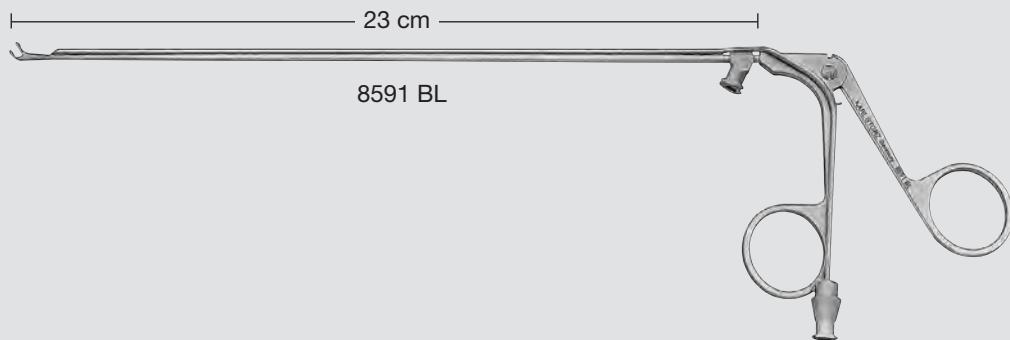
modified by RUDERT

for Laryngoscopy during CO₂ LASER Treatment

Working length 18 and 23 cm

Special Features:

- All instruments are equipped with a channel for evacuation of LASER vapors
- Special matt finish
- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8591 AL

Spoon Forceps, straight, diameter 2 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 23 cm



8591 BL

Spoon Forceps, curved upwards, diameter 2 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 23 cm



8591 RL

KLEINSASSER Forceps, opens horizontally to right, with 2 mm cupped jaws, with cleaning connector, working length 23 cm



8591 SL

Same, opens horizontally to left



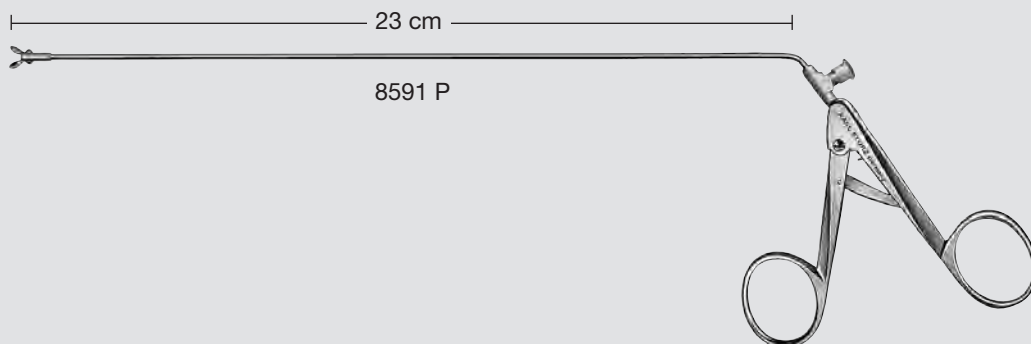
8591 TL

Spoon Forceps, straight, heavy model, diameter 4 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 22 cm

Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



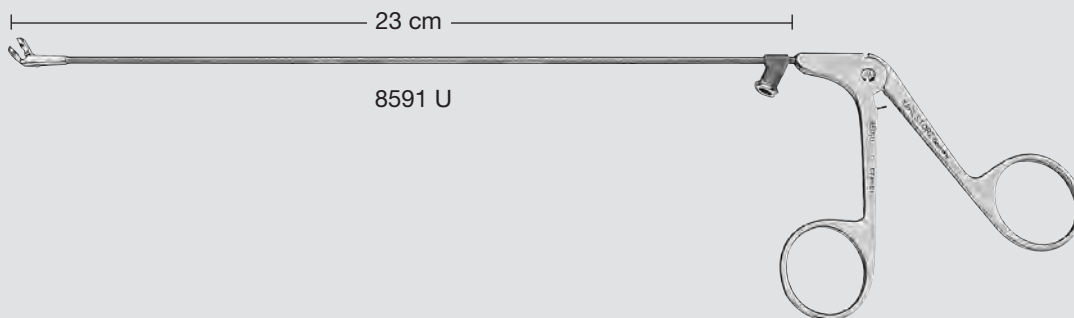
8591 P

Spoon Forceps, with cupped jaws, diameter 5 mm, robust model, double action jaws, sheath diameter 2.5 mm, with cleaning connector, working length 23 cm



8591 PL

Forceps, spoon-shaped, oval, width 4 mm, fenestrated, for biopsy, double action jaws, sheath diameter 2.5 mm, with cleaning connector, working length 23 cm



8591 T

Spoon Forceps, with 4 mm cupped jaws, straight, heavy model, single action jaws, with cleaning connector, working length 23 cm



8591 U

Same, curved upwards



8591 V

Same, curved to right



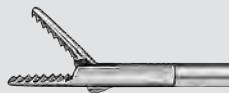
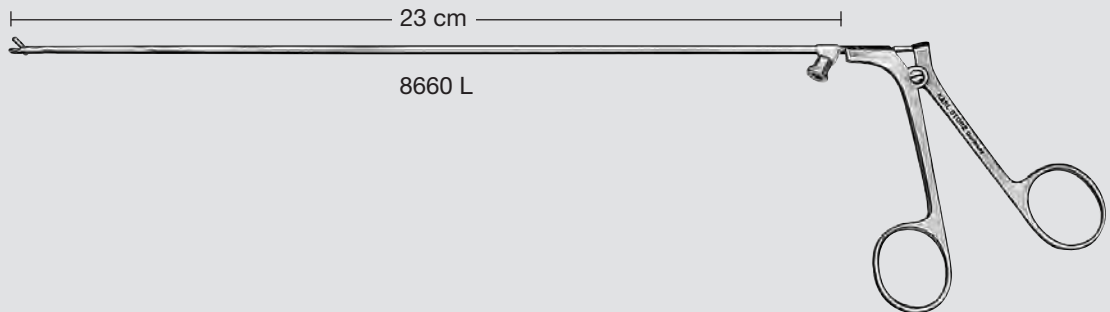
8591 W

Same, curved to left

Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



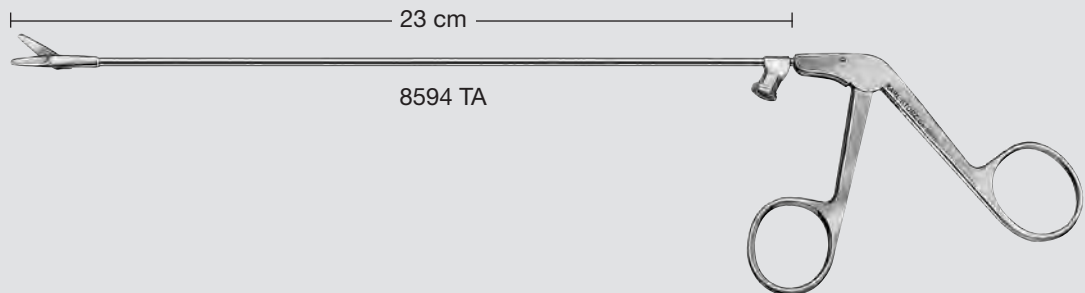
8660 H

KLEINSASSER Alligator Grasping Forceps,
heavy model, single action jaws, with
cleaning connector, working length 23 cm



8660 L

KLEINSASSER Laryngeal Biopsy Forceps,
heavy model with oval jaws, size 3 x 4 mm,
single action jaws, with cleaning connector,
working length 23 cm



8594 TA

LARYNGOFORCE® II Scissors for Large Tumors,
straight, robust model, cutting blade 10 mm,
sheath diameter 3 mm, with cleaning connector,
working length 23 cm

Original STEINER Instruments

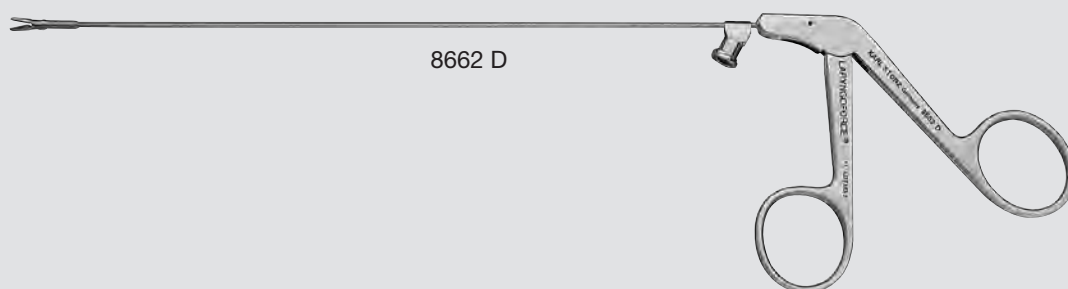
for Transoral LASER Microsurgery

Grasping forceps for grasping tissue are available in five sizes, four of which feature an integrated smoke evacuation tube.

All instruments are manufactured with a special, matt finish that is particularly advantageous during photo or

video documentation, due to the elimination of interfering reflections.

Prof. W. STEINER, M. D.,
Universitäts-Hals-Nasen-Ohrenklinik, Göttingen, Germany



8662 D



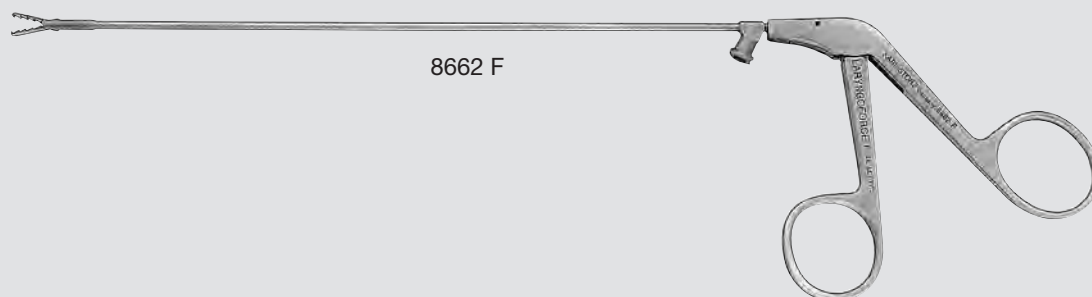
8662 D

LARYNGOFORCE® II Grasping Forceps, delicate, serrated, special matt finish, with cleaning connector, working length 22 cm



8662 E

LARYNGOFORCE® II Grasping Forceps, with oval alligator jaws, small, special matt finish, with cleaning connector, working length 22 cm



8662 F



8662 F

LARYNGOFORCE® II Grasping Forceps, with oval alligator jaws, medium, special matt finish, with cleaning connector, working length 22 cm



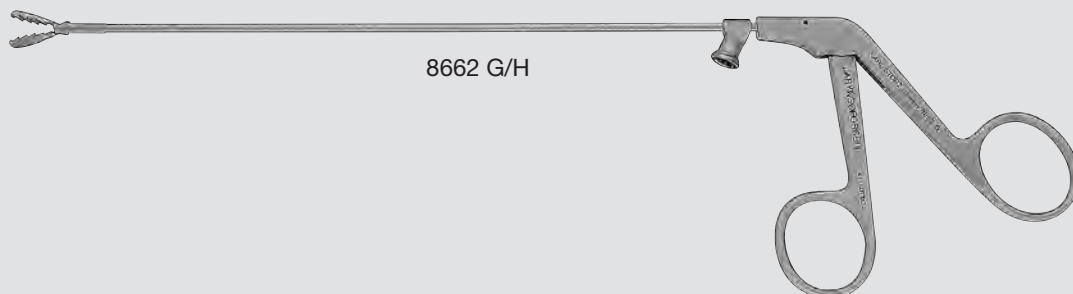
8662 FL

Same, medium, with suction channel to remove LASER vapors

Original STEINER Instruments

for Transoral LASER Microsurgery

Working length 22 cm



8662 G/H



8662 G

LARYNGOFORCE® II Grasping Forceps, with oval, fenestrated alligator jaws, large, special matt finish, with cleaning connector, working length 22 cm



8662 GL

Same, with suction channel to remove LASER vapors



8662 H

LARYNGOFORCE® II Grasping Forceps, with triangular, fenestrated alligator jaws, extra large, special matt finish, with cleaning connector, working length 22 cm



8662 HL

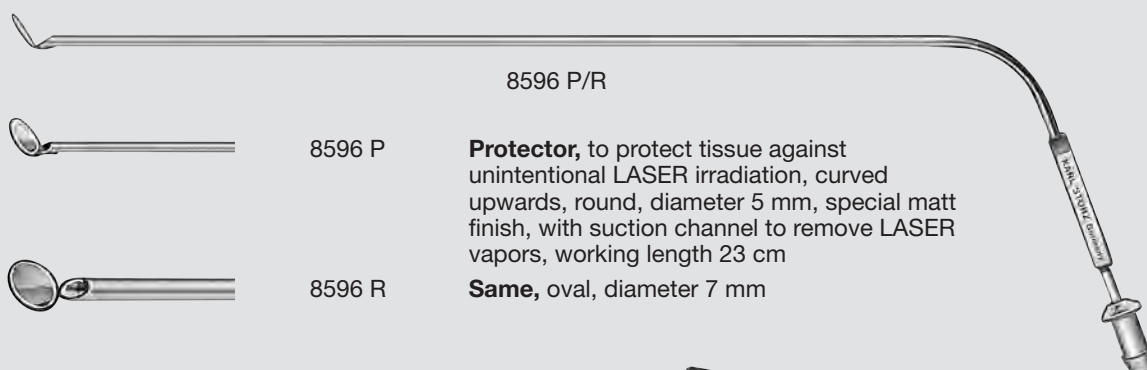
Same, with suction channel to remove LASER vapors

Original STEINER Instruments

for Transoral LASER Microsurgery

Special Features:

- Protectors to shield distal mucosa from unintentional LASER irradiation are available in diameters 5 mm and 7 mm, each with an integrated suction tube.
- Unipolar cannula for suction and coagulation, also suitable for dissecting and retracting tissue, insulated, with cleaning stylet and available in diameter 2, 2.5 and 3.5 mm.
- Suction tube with retractor, for retracting tissue during LASER incisions

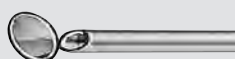


8596 P/R



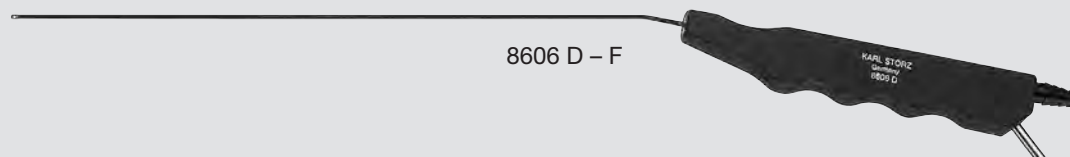
8596 P

Protector, to protect tissue against unintentional LASER irradiation, curved upwards, round, diameter 5 mm, special matt finish, with suction channel to remove LASER vapors, working length 23 cm

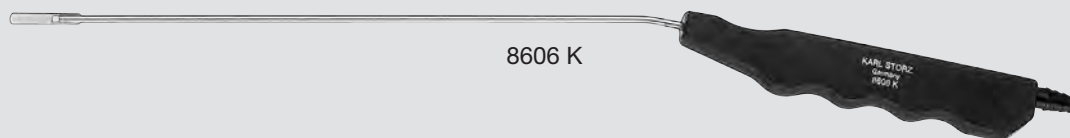


8596 R

Same, oval, diameter 7 mm



8606 D – F



8606 K



8606 D

Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 2 mm, working length 23 cm



8606 E

Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 2.5 mm, working length 23 cm



8606 F

Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 3.5 mm, working length 23 cm



8606 K

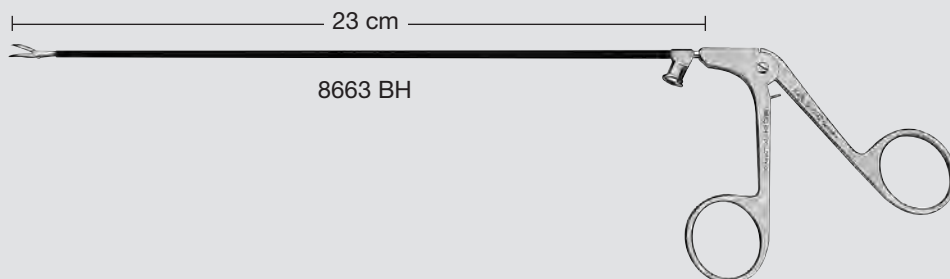
Suction Tube, with ergonomic handle, with distal elevator 18 x 5 mm, for dissecting and retracting tissue, special matt finish, with Cleaning Stylet 8606 FM, outer diameter 3 mm, working length 23 cm

Please note:

Simultaneous use of insulated instruments and LASER is prohibited.

Original STEINER Instruments

for Transoral LASER Microsurgery



8663 BH



8663 AH

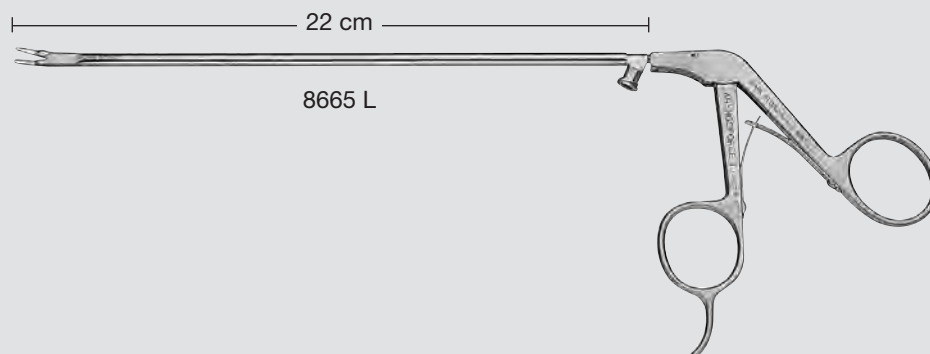
Grasping Forceps, straight, serrated, sheath insulated, with cleaning connector, working length 23 cm

8663 BH

Same, curved to right

8663 CH

Same, curved to left



8665 L



8665 L

LARYNGOFORCE® II Clip Forceps, jaws curved to left, with cleaning connector, working length 22 cm, for use with Clips 8665 T



8665 R

Same, jaws curved to right



8665 T

Clip, titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each, for use with Forceps 8665 L/R, 12067 NL/NR

Please note:

Simultaneous use of insulated instruments and LASER is prohibited.

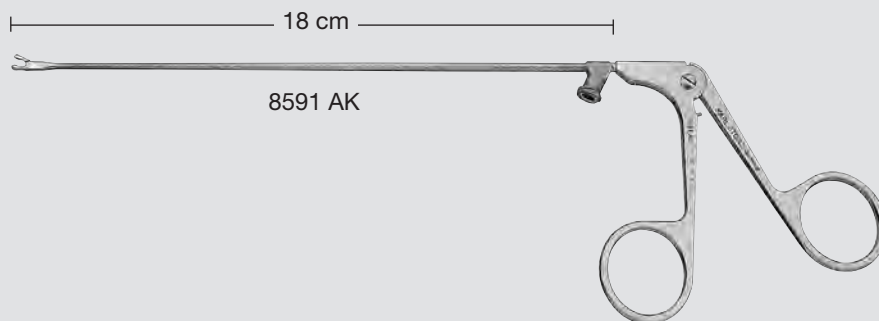
Pediatric Instruments





for Endolaryngeal Microsurgery

Working length 18 cm

Special Features:

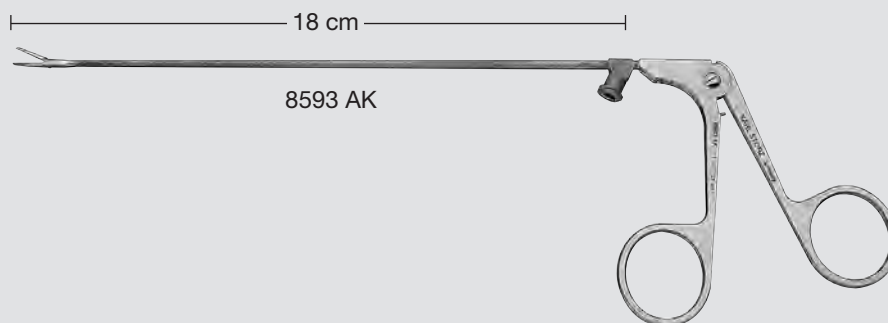
- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



| | | |
|---|---------|---|
|  | 8591 AK | KLEINSASSER Forceps , straight, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm |
|  | 8591 BK | KLEINSASSER Forceps , upturned, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm |
|  | 8591 CK | KLEINSASSER Forceps , curved to right, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm |
|  | 8591 DK | Same , curved to left |

Pediatric Instruments

for Endolaryngeal Microsurgery



8593 AK

KLEINSASSER Grasping Forceps, straight, serrated, with cleaning connector, working length 18 cm



8593 GK

Micro Grasping Forceps, curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning connector, working length 18 cm



8593 HK

Same, curved upwards to left



8594 AK

KLEINSASSER Scissors, straight, with cleaning connector, working length 18 cm



8594 CK

Same, curved to right

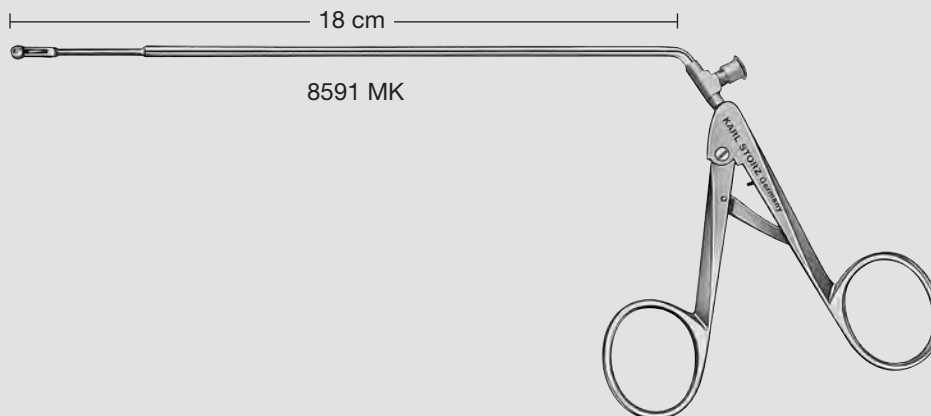


8594 DK

Same, curved to left

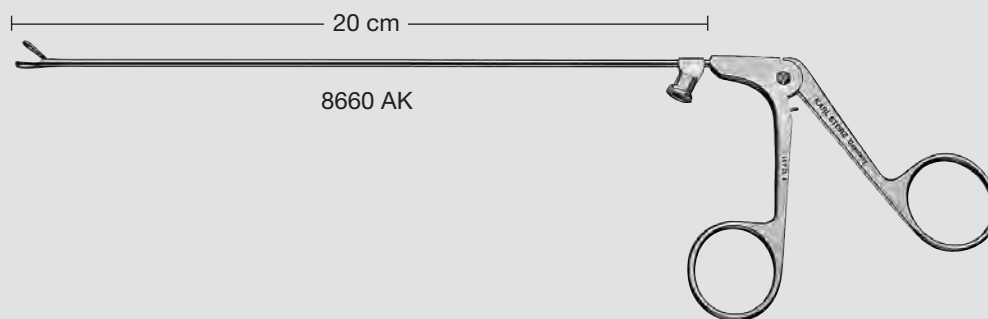
Pediatric Instruments

for Endolaryngeal Microsurgery



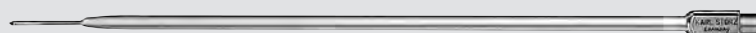
8591 MK

Spoon Forceps, jaws open horizontally, distal end malleable, diameter 4 mm, with cleaning connector, working length 18 cm



8660 AK

Grasping Forceps, for arytenoid cartilage, serrated, width of jaws 5 mm, with cleaning connector, working length 20 cm

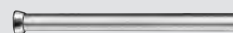
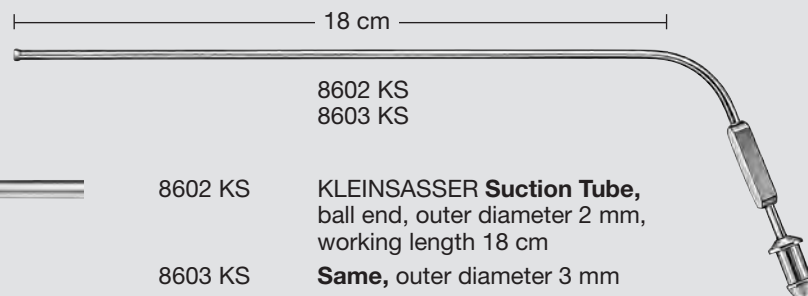


27200 SK



27200 SK

Injection Cannula, short tip, for single use, LUER-Lock, tip outer diameter 1 mm, inner diameter 0.7 mm, working length 18 cm, package of 3



8602 KS

8602 KS
8603 KS

KLEINSASSER Suction Tube, ball end, outer diameter 2 mm, working length 18 cm

8603 KS

Same, outer diameter 3 mm

WENDLER Needle Holder

for Endolaryngeal Microsurgery

When performing surgical interventions in direct laryngoscopy, any necessary endolaryngeal suture is usually complex because the confined space leaves little room for needle guidance. Particularly in the craniocaudal direction, as is the case with suture at the margins of the vocal cords, it can be difficult to place the needle correctly with a straight needle holder because it only allows parallel gripping by the grasping jaws in the direction of the sheath. It twists slightly and does not remain under adequate control.

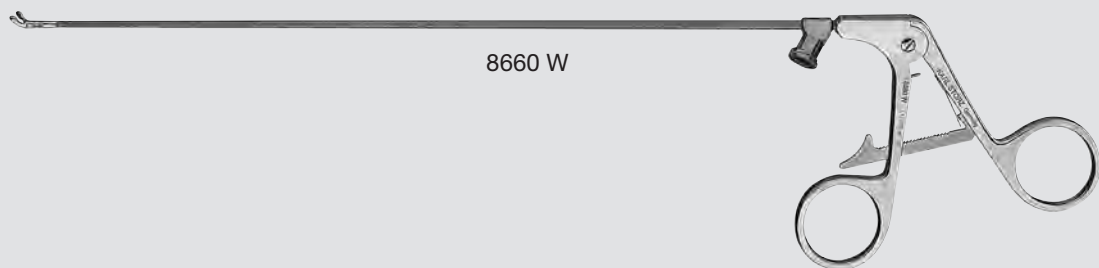
The needle holder bent upward grips the needle in an optimal position and permits punctures in the direction of the sheath without any problems. It is recommended that the tissue to be sewn be tensioned with grasping forceps. For punctures to return the thread outward (caudocranial) both straight and angled needle holders

can be used, depending on specific conditions. A knot pusher for immobilizing the knot is indispensable in all cases.

The new needle holder was initially developed for glottal surgery to shorten the glottis, serving to raise the pitch of the voice in transsexual patients. But also in the case of arytenoidectomy, synechia resections, and traumatic lesions of varying genesis (also during endolaryngeal operations) there is frequently a need for suture in the direction of puncture described.

In all the cases the angled needle holder facilitates puncture guidance to optimally adapt the margins of the mucous membrane in the required plane.

*J. WENDLER,
Universitätsklinikum Charité,
Abteilung für Phoniatrie, Berlin, Germany*



8660 W

WENDLER Needle Holder, delicate, curved upwards, for glottal surgery, arytenoidectomy and other endolaryngeal interventions, sheath conically reinforced from distal to proximal end, with ratchet, with serrated round jaws, diameter 1.6 mm, with cleaning connector, working length 23 cm

FEHLAND Needle Holder

for Endolaryngeal Microsurgery

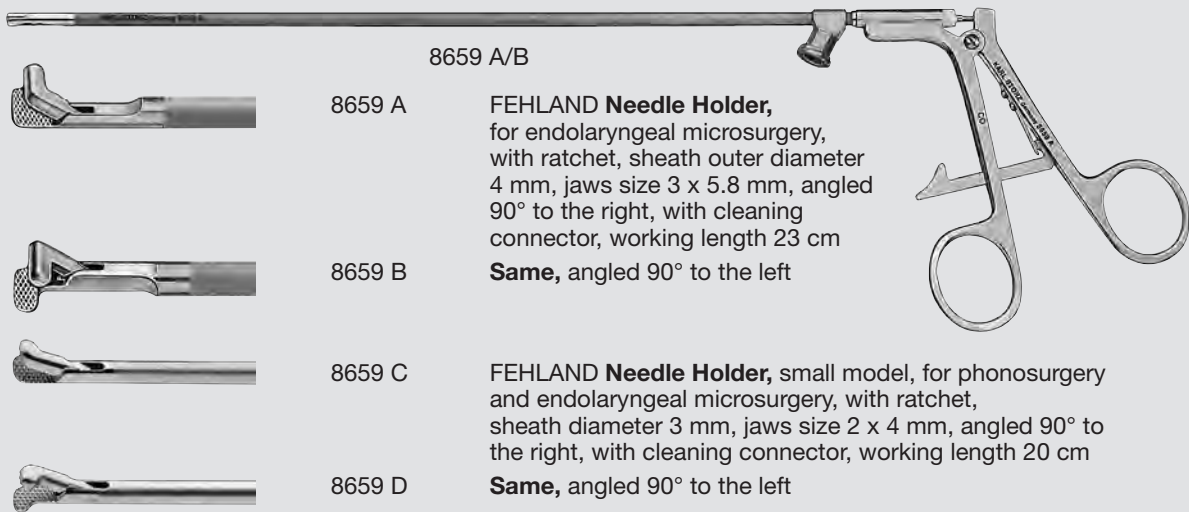
For interventions which require guidance of the needle parallel to the sheath during endolaryngeal microsurgery, locking and guidance of the needle without twisting and tilting is very difficult or impossible with conventional needle holders. Frequent repositioning of the needle with conventional needle holders is time-consuming, technically demanding and can unnecessarily traumatize tissue. For this reason, a needle holder was developed by Dr. FEHLAND in cooperation with KARL STORZ for the following applications:

- All suturing procedures, particularly when the needle needs to be guided parallel to the needle holder sheath.
- For the creation of endolaryngeal swing flaps, arytenoidectomies, etc.
- For surgical elevation of the middle vocal register with displacement of the frontal vocal cord commissure (glottal graft).
- For vascular purse-string ligature in narrow lumen and hard-to-reach tissue areas.

*P. FEHLAND, M. D.,
Universitätsklinikum Benjamin Franklin,
Abteilung für Phoniatrie, Berlin, Germany*

Special Features:

- Available in 2 designs with 90° lateral jaw angle to right or left, providing a uniquely wide useable angle of over 180°
- Cross-corrugated jaw surfaces and a locking handle with a ratchet mechanism ensure stable grasping and needle handling without twisting or turning
- Suitable for both straight and curved needles of varying lengths and curvatures, regardless of grasping angle
- Slim and yet stable sheath, special black coating
- View of the operation field with the needle guide parallel to the sheath, e.g. subglottal-glottal and vice versa
- Small size with delicate jaws recommended for phonosurgery, working length 20 cm



The first stitch is completed; preparation of the second stitch



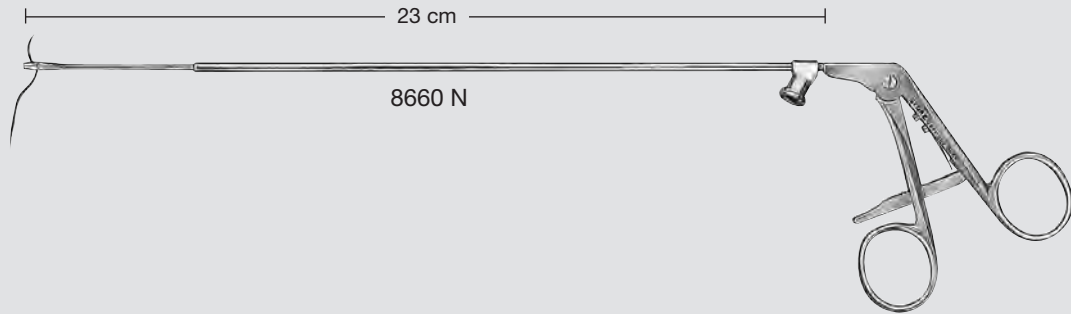
The second stitch is also completed



Preparation of the third stitch

KLEINSASSER Needle Holder

for Endolaryngeal Microsurgery



8660 N

KLEINSASSER Needle Holder, delicate, straight, serrated jaws, size 1.8 x 3.5 mm, sheath conically reinforced from distal to proximal end, with ratchet, with cleaning connector, working length 23 cm

Distending Forceps, LASER Application Instrument

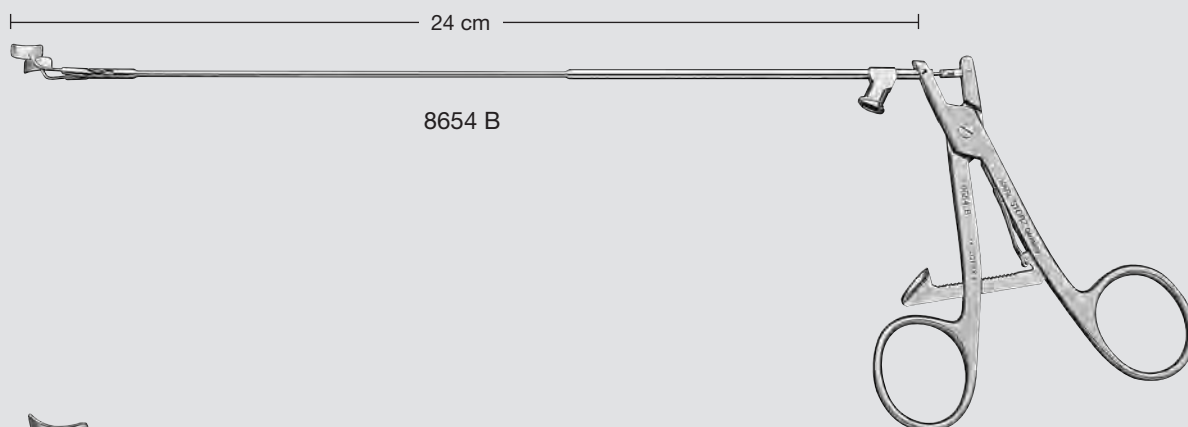
for Endolaryngeal Microsurgery

LINDHOLM Distending Forceps

In many instances, retraction of the false vocal cords, the true vocal cords or other soft tissue is temporarily needed during an endoscopic procedure. For LASER surgery of limited vocal cord carcinoma it is, for instance, very convenient to be able to visualize more of the upper surface of the vocal cords by retraction of the false vocal cords. Similar retraction of the true vocal cords gives better access to subglottic pathology.

For endoscopic surgery the key problem is often the difficulty of obtaining access to the target. These retractors are a valuable addition to the wide range of new endoscopic instruments which enables further versatility of endoscopic procedures.

*C.-E. LINDHOLM, M. D.,
Uppsala, Sweden*

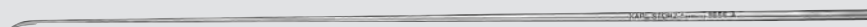


8654 B

LINDHOLM Forceps, for retraction of true vocal cords and false vocal cords, distal end with blunt curved blades, self-retaining, with ratchet and cleaning connector, working length 24 cm

Special Features

- Universal handle is fully adjustable, providing various working lengths
- Instruments can be rotated 360° in the universal handle



8656 A



8656 A

Sickle Knife, curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 B

Same, straight cutting



8656 C

Round Knife, vertical cutting, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 D

Lancet Knife, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 E

Needle, straight, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 F

Hook 90°, 1 mm, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 G

Same, 2 mm



8656 J

Dissector, straight, ball end, delicate, 3 to 0.6 mm tapered shaft, diameter 1.3 mm, total length 23 cm

WOO/SHAPSHAY/OSSOFF Microsurgical Instruments for Phonosurgery



8656 L **Elevator**, slightly curved, blunt, delicate, 3 to 1 mm tapered shaft, total length 23 cm



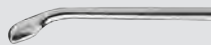
8656 LS **Same**, sharp tip



8656 N **Same**, angled 15°



8656 R **Curette**, oval spoon, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm

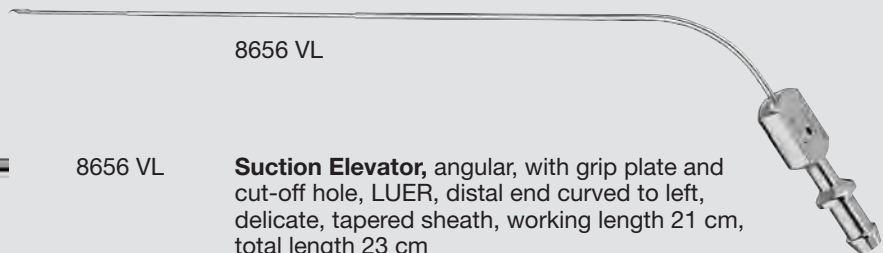


8656 S **Same**, angled 35°



8657 H

8657 H **Universal Handle**, forceps shape, with 2 handle rings, length 9 cm, for use with 3 mm instruments for phonosurgery and endolaryngeal microsurgery 8595 A – 8596 T, 8655 A – K and 8656 A – S



8656 VL



8656 VL **Suction Elevator**, angular, with grip plate and cut-off hole, LUER, distal end curved to left, delicate, tapered sheath, working length 21 cm, total length 23 cm







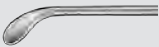


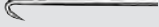
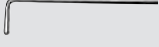




8656 VR **Same**, distal end curved to right

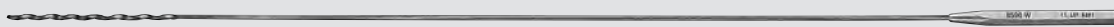
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

KLEINSASSER Instruments, working length 23 cm, for use with Handle 8597



| | | |
|---|--------|---|
| | 8595 A | |
|  | 8595 A | Knife , oval, straight |
|  | 8595 B | Same , angled 45° |
|  | 8595 C | Same , sickle-shaped, curved, pointed |
|  | 8595 D | Same , straight cut, pointed |
|  | 8595 E | Same , golf club-shaped, curved, round |
|  | 8595 F | Same , round, cuts vertically |
|  | 8596 A | Hook , blunt, with probe end |
|  | 8596 B | Hook , sharp |
|  | 8596 C | Hook , blunt, angled 90°, with probe end, length 5 mm |
|  | 8596 E | Needle , curved to right, working length 23 cm |
|  | 8596 F | Same , curved to left |
|  | 8596 H | Suction Elevator , working length 23 cm |
|  | 8596 T | Knot Tier |
| | 8597 | KLEINSASSER Handle , for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B |

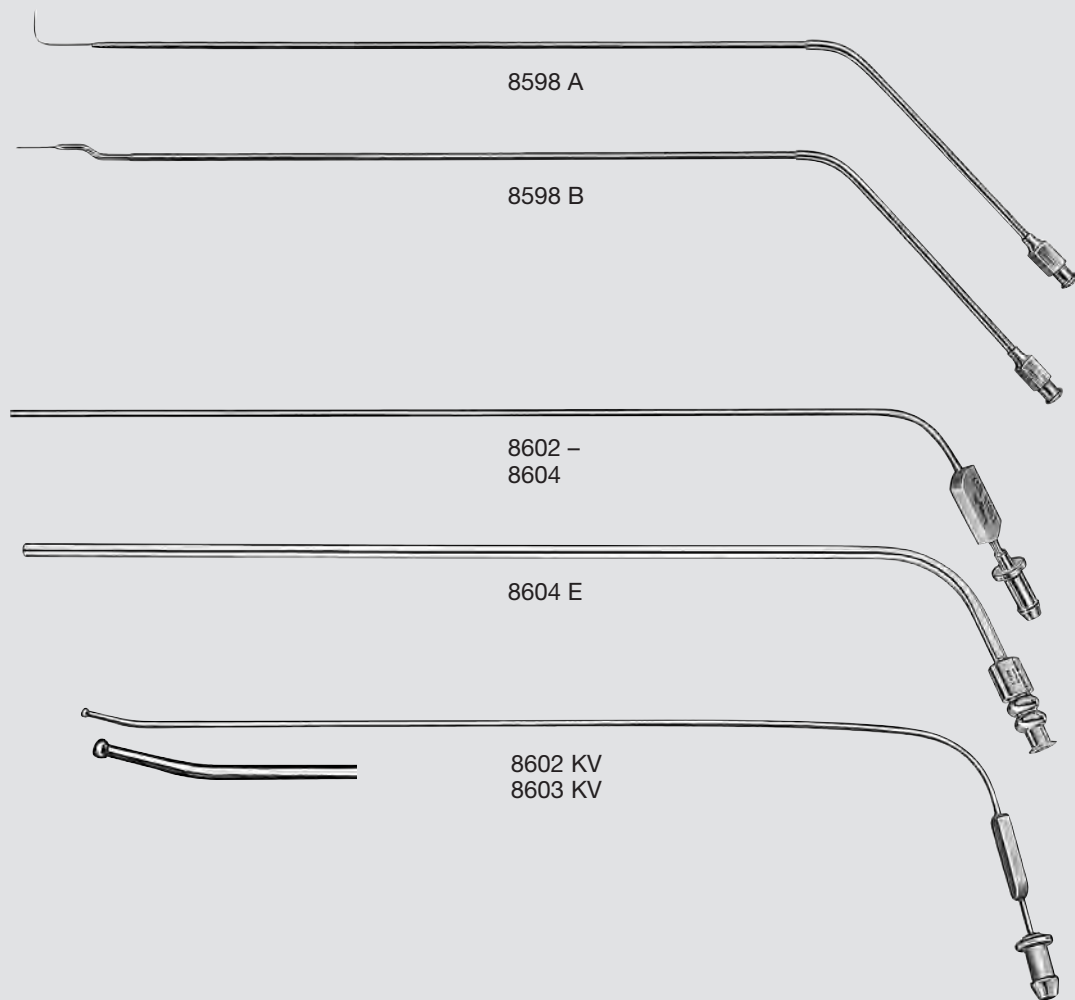


| | | |
|--|---------|--|
| | 8596 W | Cotton Applicator , straight, working length 25 cm |
| | 8596 WJ | Cotton Applicator , for endolaryngeal microsurgery, straight, working length 21 cm |
| | 8596 WK | Same , working length 18 cm |

Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



- 8598 A KLEINSASSER **Injection Needle**, LUER-Lock, curved, working length 23 cm
- 8598 B **Same**, straight
- 8602 KLEINSASSER **Suction Tube**, outer diameter 2 mm, working length 23 cm
- 8603 **Same**, outer diameter 2.5 mm
- 8604 **Same**, outer diameter 3 mm
- 8604 E KLEINSASSER **Suction Tube**, outer diameter 4 mm, working length 23 cm

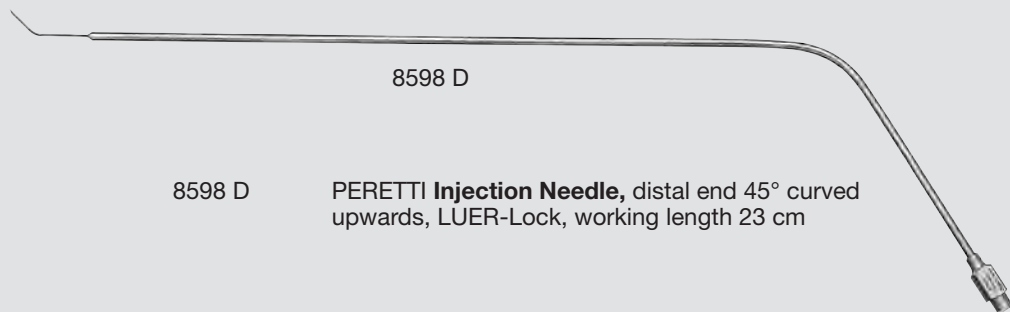
For use with KANTOR-BERCI Video-Laryngoscopes

- 8602 KV KLEINSASSER **Suction Tube**, ball end, curved upwards, outer diameter 2 mm, working length 23 cm
- 8603 KV **Same**, outer diameter 3 mm

Instruments

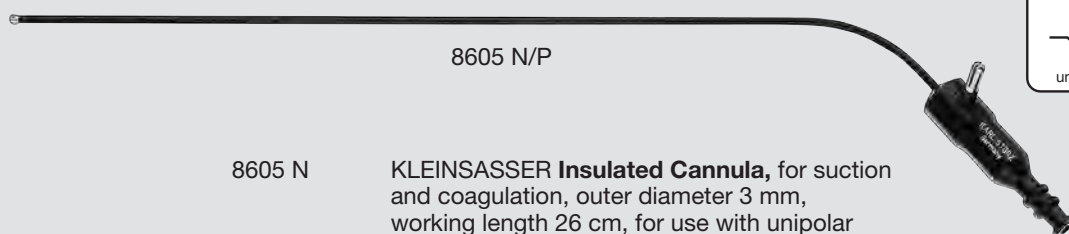
for Endolaryngeal Microsurgery

Working length 23 cm

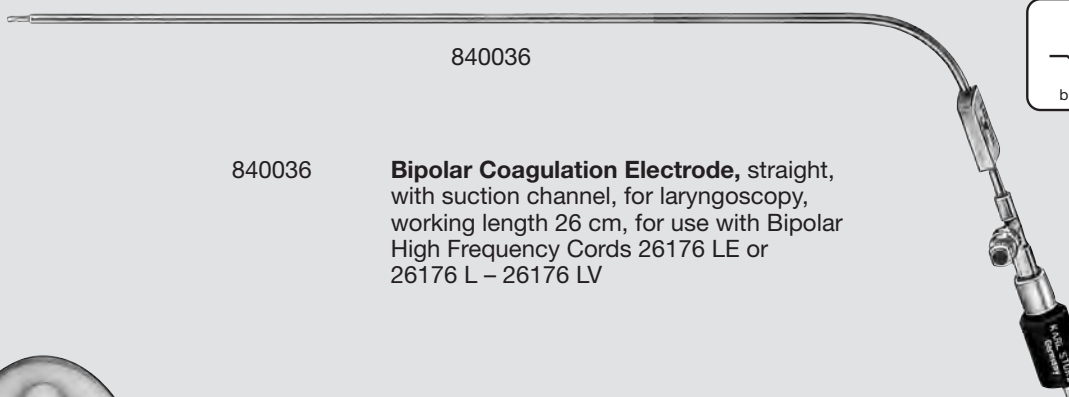


8598 D PERETTI **Injection Needle**, distal end 45° curved upwards, LUER-Lock, working length 23 cm

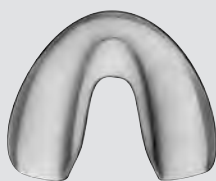
Working length 26 cm



8605 N/P
8605 N KLEINSASSER **Insulated Cannula**, for suction and coagulation, outer diameter 3 mm, working length 26 cm, for use with unipolar High Frequency Cords 26005 M or 26002 M/26004 M/26006 M
8605 P **Same**, outer diameter 5 mm

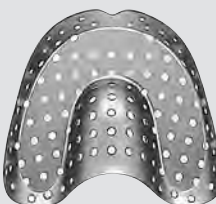


840036
840036 **Bipolar Coagulation Electrode**, straight, with suction channel, for laryngoscopy, working length 26 cm, for use with Bipolar High Frequency Cords 26176 LE or 26176 L – 26176 LV



8575 QS

8575 QS **Teeth Protector, silicone, autoclavable**, can also be used as inlay in metal teeth protector



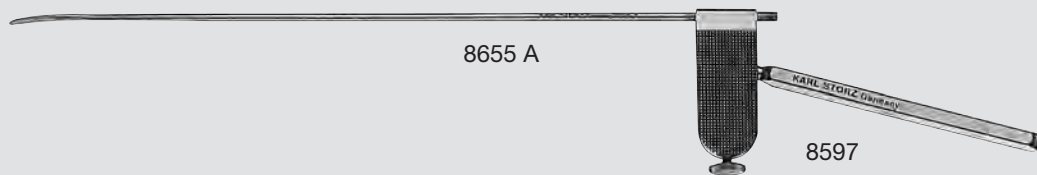
8575 RA – RD

8575 RA **Teeth Protector, metal, large**
8575 RB **Same**, medium
8575 RC **Same**, small
8575 RD **Same**, extra small

8-11

Additional Instruments

for Endolaryngeal Microsurgery



8655 A

Elevator, slightly curved, working length 23 cm, for use with Handle 8597



8655 C

Same, 90° curved

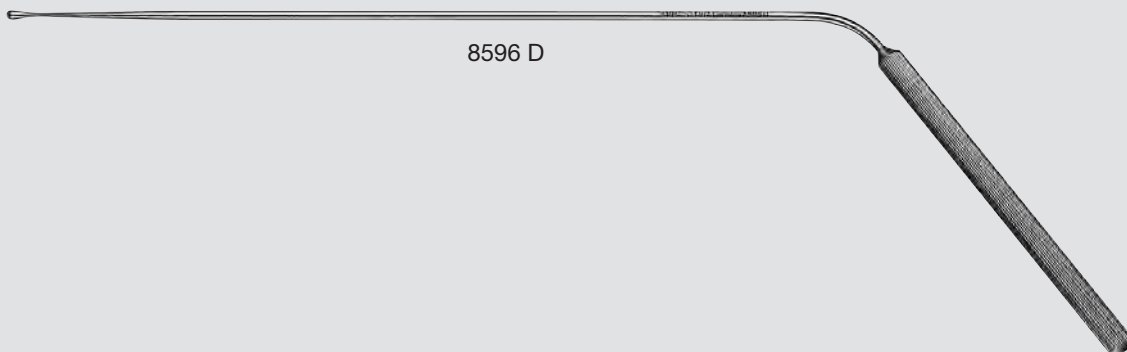


8655 K

Knife, lancet-shaped, straight, working length 23 cm, for use with Handle 8597

8597

KLEINSASSER Handle, for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B



8596 D



8596 D

Laryngeal Probe, GREAT ORMOND STREET HOSPITAL model, straight, sheath angled, round handle, working length 23 cm

Working length 20 cm

Special Features:

- Extra fine sheath gradually reinforced from distal to proximal end

8691 A

8691 A **Suction Tube**, handle with cut-off hole, tip with central opening, outer diameter 1 mm, working length 20 cm

8691 B **Same**, outer diameter 1.5 mm

8691 C **Same**, outer diameter 2 mm

8692 A

8692 A **Suction Tube**, handle with cut-off hole, tip closed, with 2 lateral openings, outer diameter 1 mm, working length 20 cm

8692 B **Same**, outer diameter 1.5 mm

8692 C **Same**, outer diameter 2 mm

8693 A

8693 B

8693 A **Probe**, straight, diameter 1 mm, working length 20 cm

8693 B **Same**, angled 45°

8597

8597 **KLEINSASSER Handle**, for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B

PERETTI High Pressure Syringe

for Fat Injection

PIAFI = Primary intracordal autologous fat injection following endoscopic chordectomy for glottal laryngeal carcinoma.

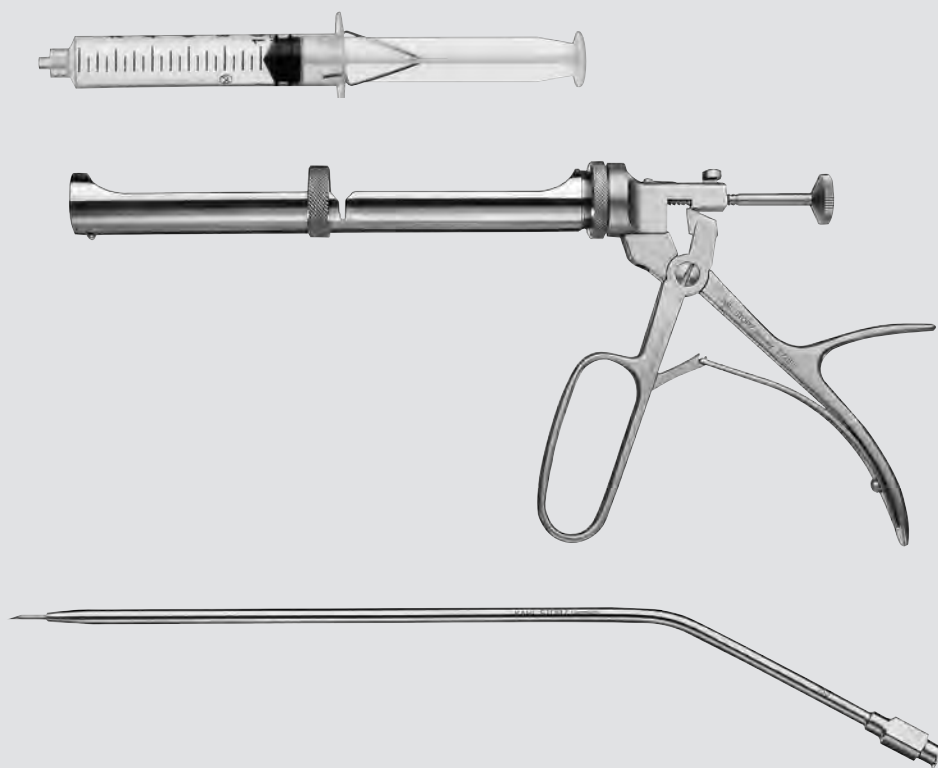
- Chordectomy is the standard treatment for vocal cord carcinoma.
- For voice restoration, it is possible to reconstruct the vocal cords either with synthetic or autologous material. In the case of the PIAFI technique, fat is injected with the PERETTI-BOLZONI instrument. The syringe for fat harvesting lies in the instrument as in a groove.
- Injection is performed by means of a gear mechanism which releases 0.5 ml fat with each cogwheel click.

Operative procedure:

- In the case of the Peretti technique, the surgeon removes subcutaneous abdominal fat.
- Autologous fat is used for the vocal cords after a few minutes.

Benefits of autologous fat injection:

- Less risk of rejection
- Cost-efficient
- Restores the mass of the resected vocal cord



771410

PERETTI High Pressure Syringe, for fat injection including:

High Pressure Handle, for use with Syringe Holder 771412

Syringe Holder, for Plastic Syringe 771415, for use with High Pressure Handle 27200

Pusher, for use with High Pressure Handle 27200 with Plastic Syringe 771415

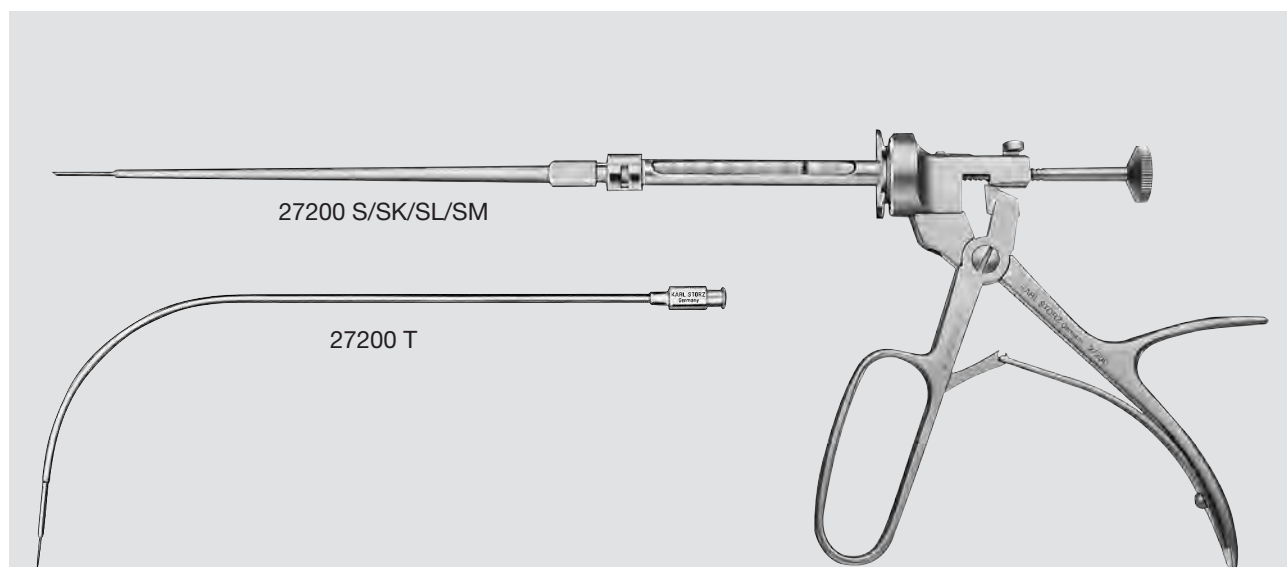
Plastic Syringe, spring-action, self-retaining, 10 ml, sterile, for single use, package of 25

Injection Cannula, angular, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 0.8 mm, working length 20 cm, package of 3

Components/Spare Parts see chapter 16

High Pressure Syringe

for Viscous Fluid Injection, for Larynx



- 771400 **High Pressure Syringe**, for viscous fluid injection including:
High Pressure Handle, for use with Syringe Holder 27201 Q
Adaptor, for injection of viscous fluid, for filling plastic syringe, package of 3
Plastic Syringe, 1 ml, for single use, package of 100
Syringe Holder, for plastic syringe, package of 3
Injection Cannula, LUER-Lock, outer diameter of syringe 1.3 mm, inner diameter 0.8 mm, working length 23 cm, package of 3
- 27200 SK **Injection Cannula**, short tip, for single use, LUER-Lock, tip outer diameter 1 mm, inner diameter 0.7 mm, working length 18 cm, package of 3
- 27200 SL **Injection Cannula**, for single use, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 1.1 mm, working length 18 cm, package of 3
- 27200 SM **Same**, working length 15 cm, package of 3
- 27200 T **JOUSSEN Larynx Cannula**, curved, for single use, LUER-Lock, outer diameter of tip 0.6 mm, for collagen application, for use with High Pressure Syringe 771400 or Syringe 810002, package of 3

Please note:

Collages are injected cool. If the material becomes warm it becomes rigid and can not be made liquid again by recooling.

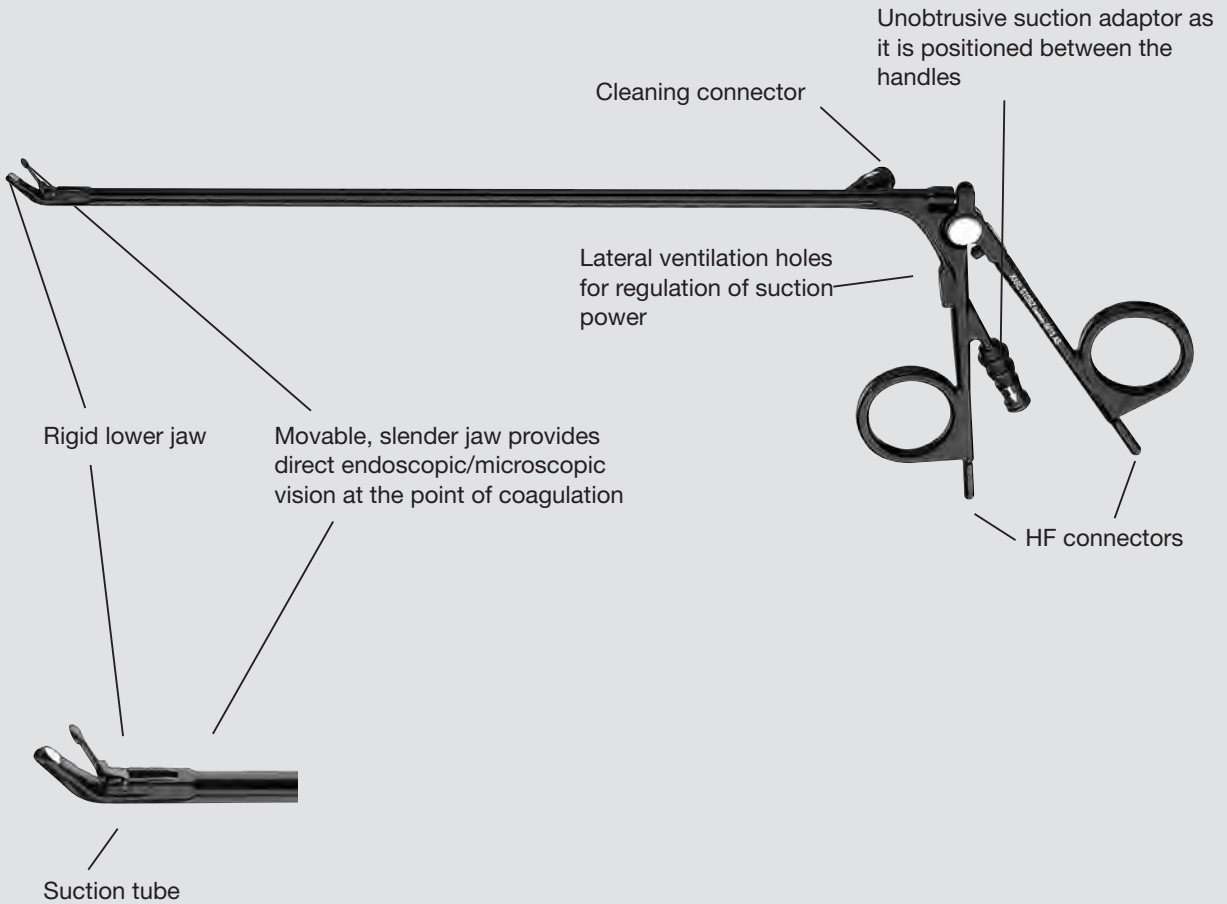
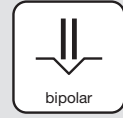
Components/Spare Parts see chapter 16

Bipolar Forceps

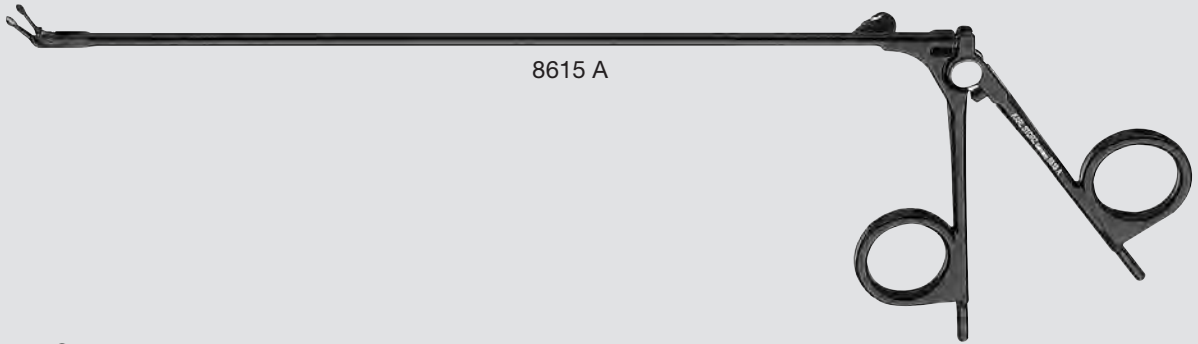
Special Features:

- Bipolar coagulation
- Insulated except for small coagulation area on the instrument tip
- Single action jaws
- Distance between cautery poles may be varied, enabling punctual and extensive coagulation

- With and without suction
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation



Bipolar Forceps

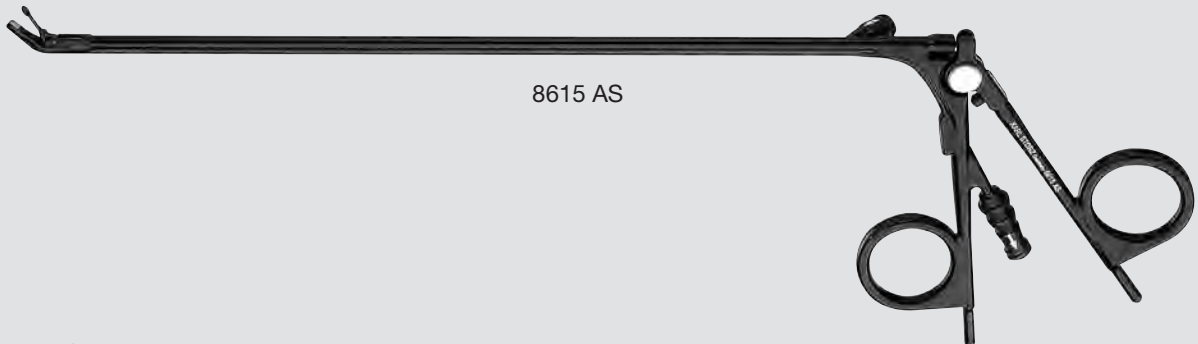


8615 A



8615 A

Bipolar Forceps, jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



8615 AS



8615 AS

Bipolar Suction Forceps, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

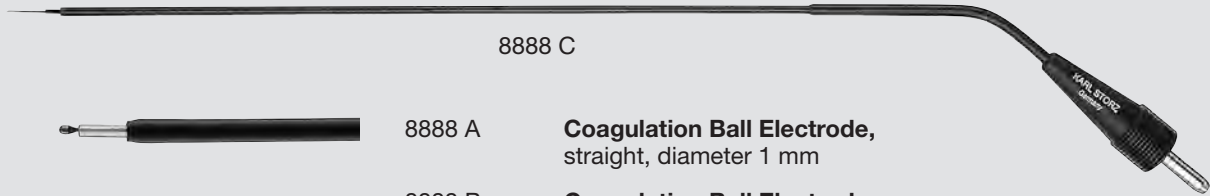
1-08

Bipolar High Frequency Cords see chapter 8, pages 426-428

Accessories

for High Frequency Surgical Units

Working length 23 cm



8888 C



8888 A

Coagulation Ball Electrode,
straight, diameter 1 mm

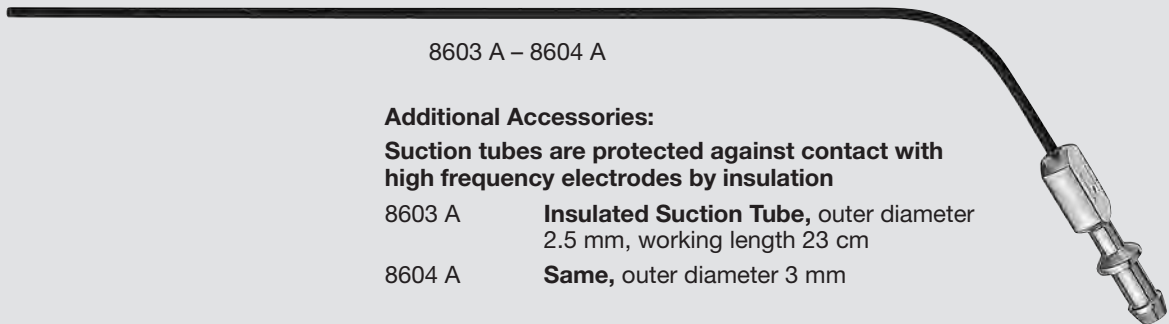
8888 B

Coagulation Ball Electrode,
straight, diameter 2 mm



8888 C

Cutting Electrode, straight, diameter 0.45 mm



8603 A – 8604 A

Additional Accessories:

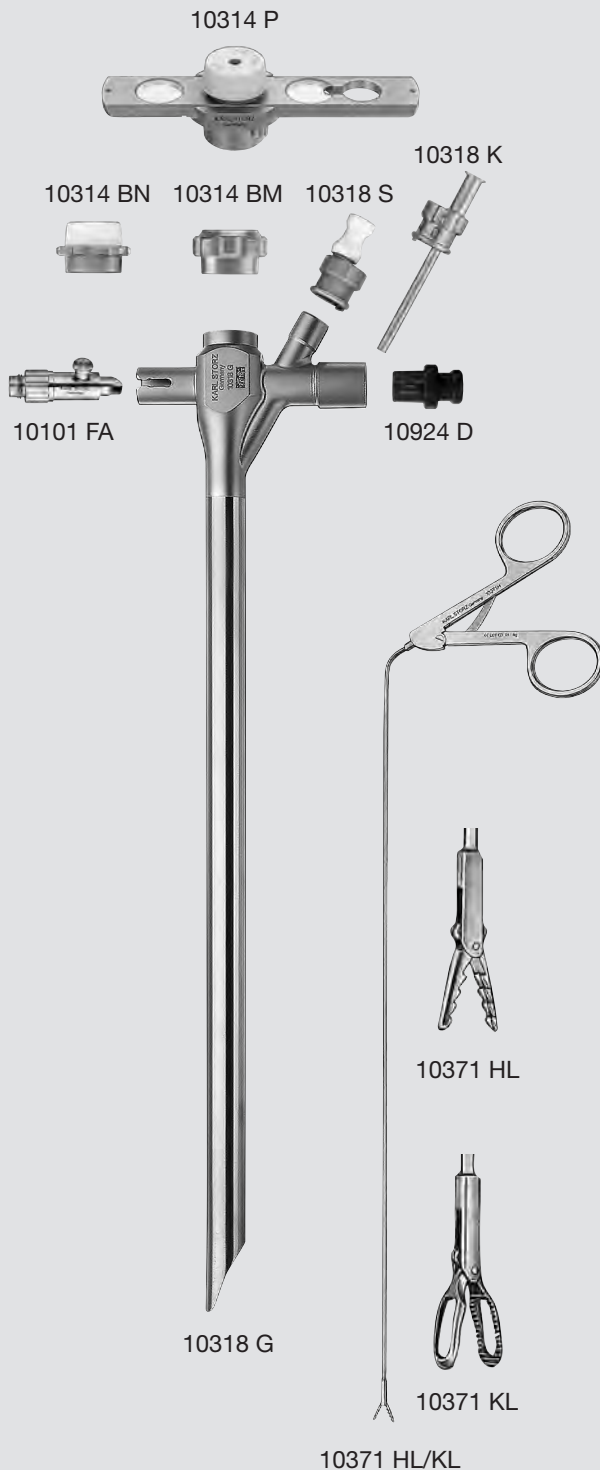
Suction tubes are protected against contact with high frequency electrodes by insulation

8603 A **Insulated Suction Tube,** outer diameter 2.5 mm, working length 23 cm

8604 A **Same,** outer diameter 3 mm

Electrode Handle 26 5200 43 and 26 5200 46 see chapter 8, page 424
Unipolar and bipolar high frequency cords see chapter 8, pages 426-428

Full Lumen Operating Tracheoscope



Special Features:

- Absence of distal light carrier does not restrict inner diameter
- Prismatic light deflector which is inserted proximally ensures illumination and enables full use of lumen through operation instruments
- Round inner diameter enables bronchial bougies from 30 to 37 Fr. to be introduced
- Suitable for the application of bronchial stents

- 10318 G **Full Lumen Operating Tracheoscope**, size 14 mm, length 33 cm
- 10101 FA **Prismatic Light Deflector**, autoclavable, with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P **FLUVOG Adaptor**, with observation window, cap with rubber seal and with window, adjustable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10924 D **Adaptor**, for respirator
- 10371 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
- 10371 KL **Forceps**, for peanuts and soft foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm

Polyflex self-expanding silicon stents with polyester netting for maintaining air passage patency in cases of central airway stenosis and for bridging tracheo-oesophageal fistulus can be obtained from:

Willy Rüsçh AG, P. O. Box 1180, D-72385 Kernen, Germany

For more forceps please see chapter 11-12, ESOPHAGOSCOPY – BRONCHOSCOPY

Dilation Tracheoscopes

GRONINGEN Model

Some tracheal stenoses can be treated endoscopically. An intubation laryngoscope, a dilation tracheoscope, telescope and suction tubes are required for this procedure.

The tracheoscope is available with a diameter of 8 mm or 12 mm. The size of the instrument is determined by the size of the larynx and the healthy portion of the trachea. There are numerous tiny openings in the distal end of the instrument which enable air to come through the middle of the stenosis. The proximal end of the instrument is designed in such a way that customary ventilation tubes and a telescope (30 cm) can be connected.

The intervention is carried out under general anesthesia. Following the administration of the anesthesia and with ventilation taking place via the anesthesia mask, the dilation tracheoscope is introduced under endoscopic control. The stenosis is visible through the vocal cords. The design of the tip which can be advanced forward

through the stenosis ensures that the ventilation is maintained during this process. The conical construction of the tip enables the instrument to be advanced carefully up to the wider section of the tracheoscope, whereby the tracheoscope remains in place 5-10 minutes. The intervention is then completed.

Fig. 1 corresponds to the view through the telescope and shows the proximal part of the tracheal stenosis. The vocal cords are at the front of the picture. In Fig. 2 the stenosis can be seen in detail. Fig. 3 shows the stenosis following the dilation; Fig. 4 the healthy, distal trachea.

The constellation of instruments is suitable for treating most medium-sized stenoses (Myer-Corton 2nd degree). The intervention can be repeated after 6-24 months without difficulty.

F. G. DIKKERS, M.D., Groningen, The Netherlands

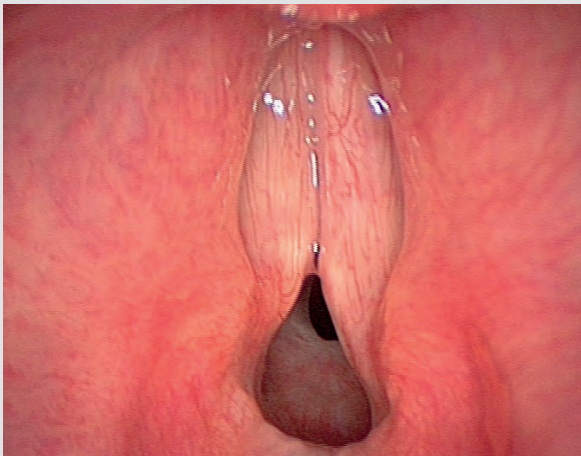


Fig. 1

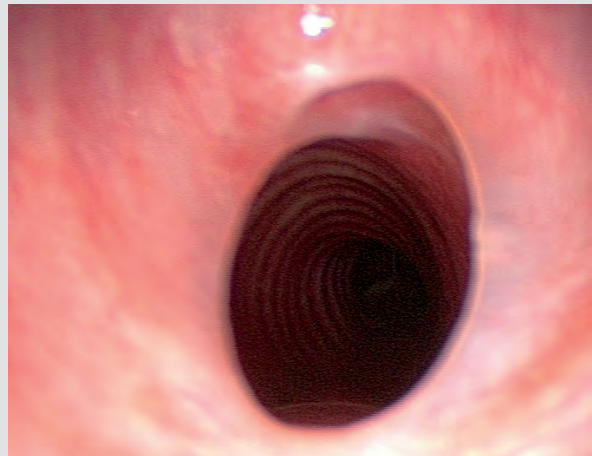


Fig. 2

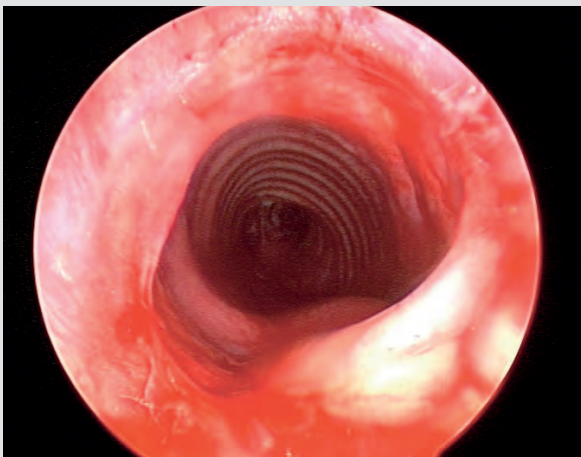


Fig. 3

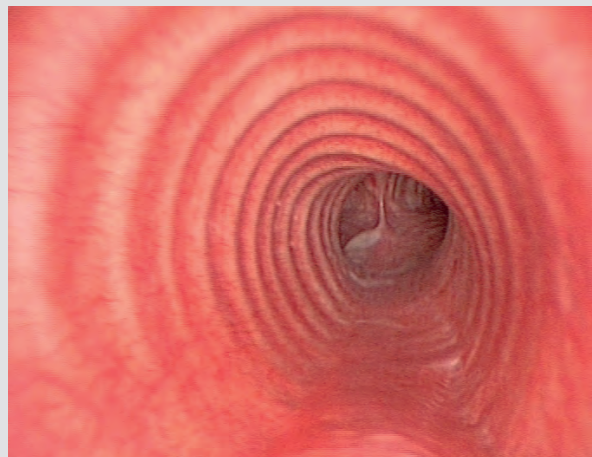
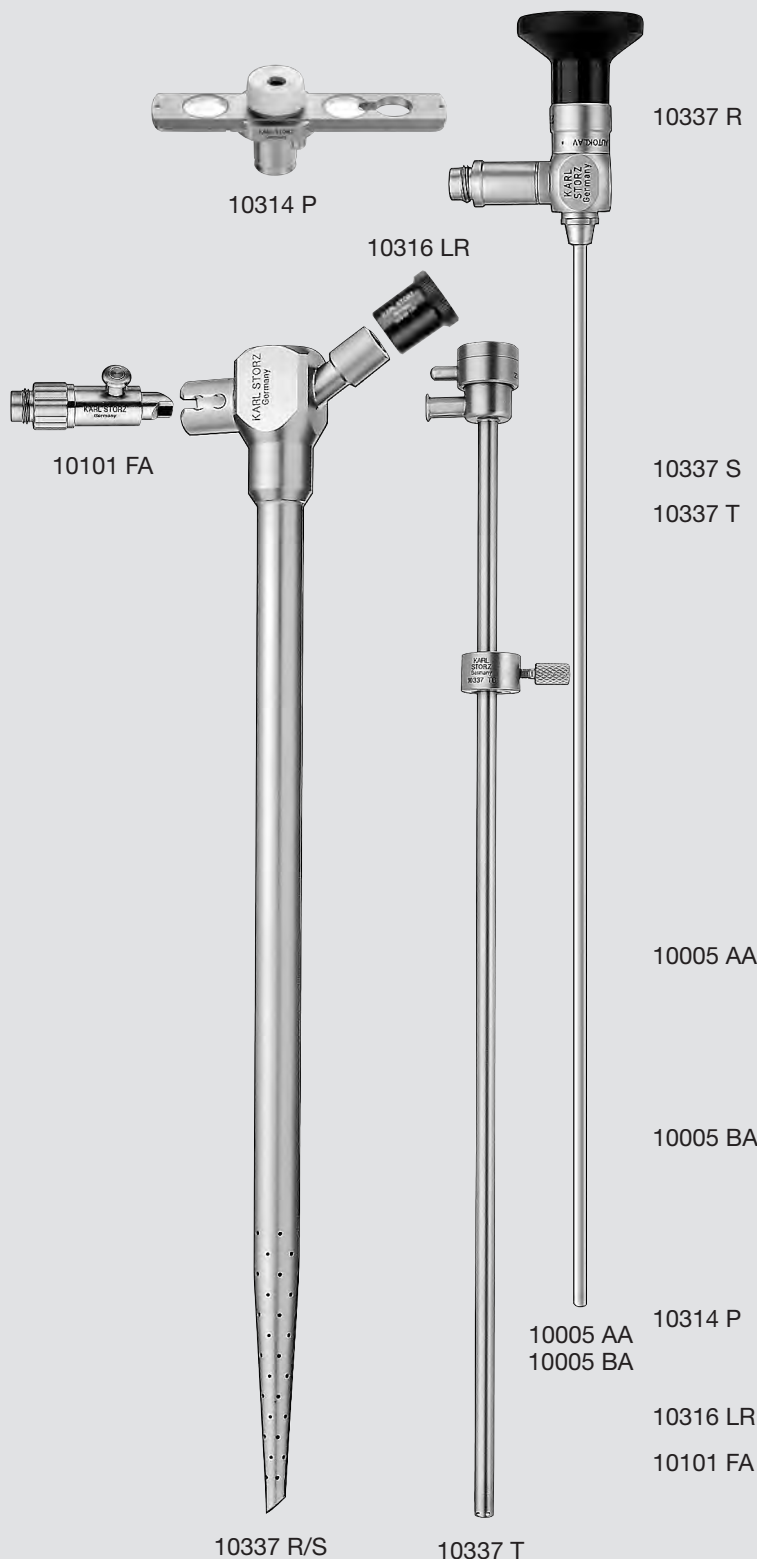


Fig. 4

Dilation Tracheoscopes

GRONINGEN Model



Optical Dilation Tracheoscope, GRONINGEN model, rigid, with distance markings, for dilation for stenosis and tumors in the upper trachea, distal tapered with lateral ventilation holes, proximal with attachment for oxygen, outer diameter 12 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA, Prismatic Light Deflector 10101 FA, Adaptor for Respirator 10316 LR and adjustable FLUVOG attachment, with window and Rubber Seal 10314 P

Same, outer diameter 8 mm

Optical Intubation Tracheoscope, GRONINGEN model

including:

Sheath, for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA

Distance Ring, with fixation screw for length adjustment of the endotracheal tubes

10005 AA HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, color code: green

10005 BA HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, color code: red

10314 P FLUVOG Adaptor, with observation window, cap with rubber seal and with window, adjustable

10316 LR Adaptor, for respirator

10101 FA Prismatic Light Deflector, autoclavable, with connection to fiber optic light cable

11-031

Components/Spare Parts see chapter 16



**ESOPHAGOSCOPY
DIVERTICULOSCOPY**

CMOS Video Esopharyngoscope for adults, without working channel,
working length 75 cm, diameter 3,7 mm

Special Features:

- Possibility of inversion up to 200°
- A cm-scale with special markings for every 5 and 10 cm – can be read as distance between the optical window to the vestibule of the nose
- Every 10 cm the distance from the optical window is visible as a figure beside the marking, e. g. 30 cm = 3; 50 cm = 5 or 70 cm = 7. This means that the height and caudal-cranial extent of a pathological process can be determined with an accuracy of up to less than 1 cm in the esophagus. This procedure is suitable for measuring extensive alterations.
- When the distal end is curved backwards by 200°, a 2.5 mm-scale is visible in the optical window on the sheath. The cm-scale is positioned in inversion beside the pathological process. The extension is read and recorded with the video-endoscope. It allows measuring the length of a change in the esophagus with an accuracy up to ± 1 mm, whilst eliminating the parallax error. This procedure is suitable for measuring smaller processes outside the sphincter regions.
- The possibility of long-term endoscopy is comparable to pH-metry or impedancometry.

Fields of application

- Laryngopharynx
- Upper Esophageal Sphincter (UES)
- Cardia or Lower Esophageal Sphincter (LES)

Applications

- Stress endoscopy
- Polysomnography
- Tracheobronchoscopy
- Combined endoscopy

Handling

The video esopharyngoscope is introduced transnasally. It is inserted into the pharynx under visual control. During this maneuver the functions of breathing, speaking, singing, coughing, swallowing water, liquid and solid food, etc. can be examined in the nose, rhinopharynx, velopharynx, oropharynx and larynx or laryngopharynx. This endoscopic procedure can be performed on adults without any medication. Administering decongestant nose drops with the addition of a few drops of e. g. oxybuprocaine (Novosine) is only advisable in the case of allergic patients and children on account of increased sensitivity or the narrower nasal passage.

To aid passage through the upper esophageal sphincter, the patient is given a glass of plain water (non-carbonated) and a straw. Once the optical window of the video esopharyngoscope is positioned above the postcricoid region, the endoscope passes the upper sphincter after the first sip of water. This takes advantage of the physiological hypesthesia which occurs through the act of swallowing. The patient virtually drinks the endoscope. With the help of the patient, the optical window reaches the lower esophageal sphincter. Drinking plain water enables the endoscope to pass through the cardia. Stomach gas, the stomach's contents and the stomach wall can then be visualized via mucosal relief.

Field of application

Stress endoscopy

Following the transnasal introduction of the endoscope into the esophagus, the functions of the stomach, esophagus, pharynx and larynx can be simultaneously recorded with an ECG under the same conditions as a stress electrocardiogram. As the symptoms for cardiac disorders and gastric reflux are similar, differential diagnosis is important in this case. Respiration and reflux disorders in the esophagus, pharynx and larynx or resulting electrocardiographic changes are documented during an exercise stress test.

Polysomnography (sleep endoscopy in conjunction with polysomnography)

Similar to stress endoscopy, a new diagnostic sleep endoscopy has been developed which combines polysomnography with somnography (sleep endoscopy) on-line. The video esopharyngoscope is introduced as described above. In the sleep laboratory, the mechanisms of obstruction in the velopharynx, oropharynx and larynx regions that are observed and recorded during sleep endoscopy can be correlated on-line with polysomnographic data. This shows that there is a direct correlation between causes recorded by means of sleep registration and polysomnographic findings. Consequently, the significance of laryngeal obstruction mechanisms, which are responsible for 22% of all snoring and OSAHS problems, could be established. For the first time, a pretherapeutic diagnostic technique allows a prognosis on a postoperative outcome. This offers the possibility of objective quality control of the performed therapy during post-therapeutic follow-up.

A C-PAP or B-PAP machine is set up or adjusted under polysomnographic control. This ensures that OSAHS patients receive a higher standard of treatment.

Tracheobronchoscopy

Out-patient tracheobronchoscopy can be performed on patients (including children) in a sitting position. Following administration of decongestant nose drops and nasal decongestion, e.g. 2% oxybuprocaine is inhaled deeply through an atomizer. This maneuver is repeated every 2 minutes. One waits for about 4 minutes until the patient confirms anesthesia. The video esophagoscope is advanced to the vocal cord level and oxybuprocaine is applied as drops to the tracheal mucosa. It is then possible to advance to the tracheobronchial tree.

Combined endoscopy (Functional analysis under visual control)

Using a Steri-Strip (6 × 50 mm = half-length (3M)), a Sleuth catheter (impedancecometry) and a pH meter probe or manometer probe, for example, are placed in parallel (piggyback) on the video esopharyngoscope and mounted on the side of the fiberscope with cm-markings (up to 70 cm). The tip of the catheter or the probe must be visible in the optical window even when the endoscope is deflected. Following nasal decongestion, the piggyback system is inserted into the side of the nose which offers the most space for maneuver. After reaching the pharynx, the system passes the upper sphincter as described above. The plaster should not be wrapped around the instruments more than twice (max. 50 mm = half-length) so that it comes off easily in the stomach. Gentle counter-rotation of both piggyback components enables this fixation to be detached more quickly in the stomach.

Benefits of combined endoscopy:

- Introduction of probe or catheter under visual control, i.e. without gagging and without accidentally entering the larynx or the trachea
- Visualization of sensor position (sensor of the pH probe in the gaseous space of the stomach with correct pH values, but false interpretation)
- Visualization of the sensor or catheter position (i. e. kinked catheter in the esophagus)
- Prevention of blind measuring and, consequently, false interpretations via visualization and measurements

This new endoscopic technique offers improved functional diagnostics which is now performed under visualization in contrast to previous blind introduction. This opens up new dimensions and several possibilities for understanding mechanisms and pathomechanisms, for preventive medicine, and to develop more specific therapy plans.

A patient's case history and food diary (when, what, where, how long) – which records the type, time of day, and duration of food and drink consumption as well as any complaints – helps shorten the time required to perform medical examinations. Indications are also provided for, i. e. impedance measurement combined with pH-metry and/or simultaneous endoscopic long-term functional analysis. A more specific diagnosis can prevent the indiscriminate use of antacids and similar medications.

*Prof. Dr. I. F. HERRMANN,
Düsseldorf, Germany*

HERRMANN CMOS Video Esopharyngoscope

for Functional Diagnostics in Otorhinolaryngology

The **CMOS video esopharyngoscope** combines an integrated light source with a camera control unit.

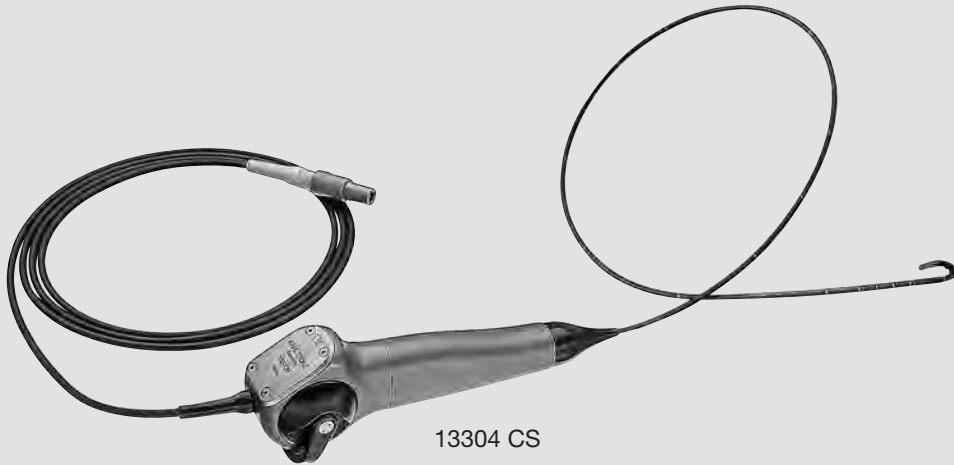
Due to the combination of Monitor 8402 ZX with the KARL STORZ C-HUB® system, the **CMOS video**

esophagoscope provides a solution for the doctor's office, house calls or consultation purposes.

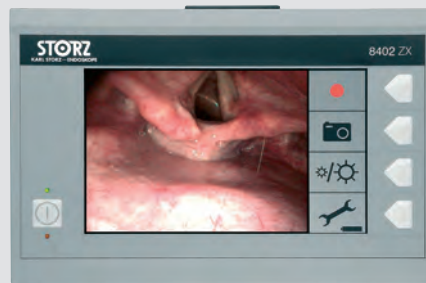
Special Features:

- CMOS chip technology for good image quality
- Replay of recorded video sequences and images via monitor
- Integrated LED light source
- Can be combined with the KARL STORZ C-HUB® system
- Sensitive yet robust control through ergonomic handle
- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable via EtO gas, Sterrad® 100S, Sterrad® NX and Steris® System 1/System 1E





13304 CS



8402 ZX

13304 CSK **CMOS Video Esopharyngoscope KIT,**
for use with Monitor 8402 ZX
Direction of view: 0°
Angle of view: 85°
Working length: 75 cm
Outer diameter: 3.7 mm
Deflection up/down: 210°/140°

Following accessories included:

13304 CS **CMOS Video Esopharyngoscope**
13242 XL **Leakage Tester,** with bulb and manometer
11025 E **Pressure Compensation Cap,** for ventilation
during gas sterilization
27677 FV **Case**

13304 CSM **CMOS Video Esopharyngoscope with Monitor**
Direction of view: 0°
Angle of view: 85°
Working length: 75 cm
Outer diameter: 3.7 mm
Deflection up/down: 210°/140°

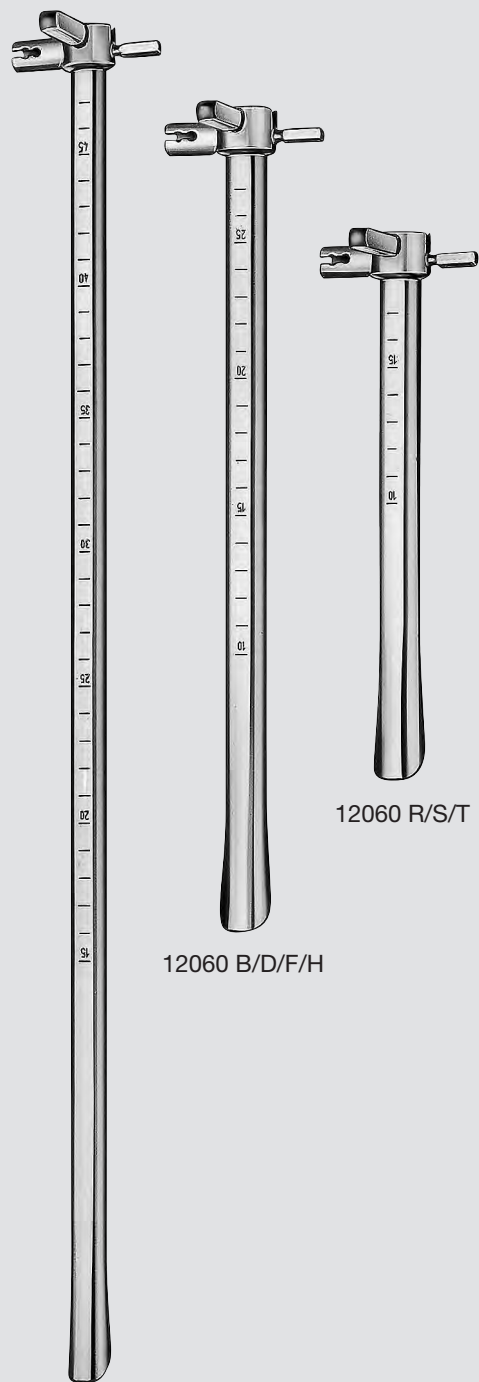
Following accessories included:

13304 CSK **CMOS Video Esopharyngoscope KIT**
8402 ZX **Monitor for CMOS endoscopes**

ROBERTS-JESBERG Esophagoscopes and Hypopharyngoscopes

for Distal and Proximal Illumination

STORZ
KARL STORZ — ENDOSKOPE



12060 A/C/E

12060 B/D/F/H

12060 R/S/T

Size 12 x 16

- 12060 AX ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 55 cm
- 12060 A **Same**, length 50 cm
- 12060 AW **Same**, length 45 cm
- 12060 AV **Same**, length 40 cm
- 12060 AU **Same**, length 35 cm
- 12060 B **Same**, length 30 cm

Size 10 x 14

- 12060 C ROBERTS-JESBERG **Esophagoscope**, oval, size 10 x 14 mm, length 50 cm
- 12060 CV **Same**, length 40 cm
- 12060 D **Same**, length 30 cm

Size 8 x 12

- 12060 E ROBERTS-JESBERG **Esophagoscope**, oval, size 8 x 12, length 50 cm
- 12060 EV **Same**, length 40 cm
- 12060 F **Same**, length 30 cm

Size 7 x 9

- 12060 H ROBERTS-JESBERG **Esophagoscope**, oval, size 7 x 9, length 30 cm

Hypopharyngoscopes, length 20 cm

- 12060 R ROBERTS-JESBERG **Hypopharyngoscope**, oval, size 12 x 16, length 20 cm
- 12060 S **Same**, size 10 x 14
- 12060 T **Same**, size 8 x 12



10101 FA

For proximal illumination

10101 FA **Prismatic Light Deflector, autoclavable,**
 with connection to fiber optic light cable

12061 A – C



For distal illumination

12061 A **Fiber Optic Light Carrier,** for use with
 esophagoscopes, length 50 cm

12061 AX **Same,** for use with esophagoscopes,
 length 55 cm

12061 AW **Same,** for use with esophagoscopes,
 length 45 cm

12061 AV **Same,** for use with esophagoscopes,
 length 40 cm

12061 AU **Same,** for use with esophagoscopes,
 length 35 cm

12061 B **Same,** for use with esophagoscopes,
 length 30 cm

12061 C **Fiber Optic Light Carrier,** for use with
 hypopharyngoscopes, length 20 cm

12062 A – C



Additional Accessories:

12062 A **Insertable Suction Tube,** for use with
 esophagoscopes, outer diameter 2 mm,
 length 50 cm

12062 AX **Same,** for use with esophagoscopes,
 length 55 cm

12062 B **Same,** for use with esophagoscopes,
 length 30 cm

12062 C **Insertable Suction Tube,** for use with
 hypopharyngoscopes, outer diameter 2 mm,
 length 20 cm

10338 TA **Adjustable Magnifier, autoclavable,** swing-
 away type, with plug connection

12070 **Handle,** for esophagoscopes



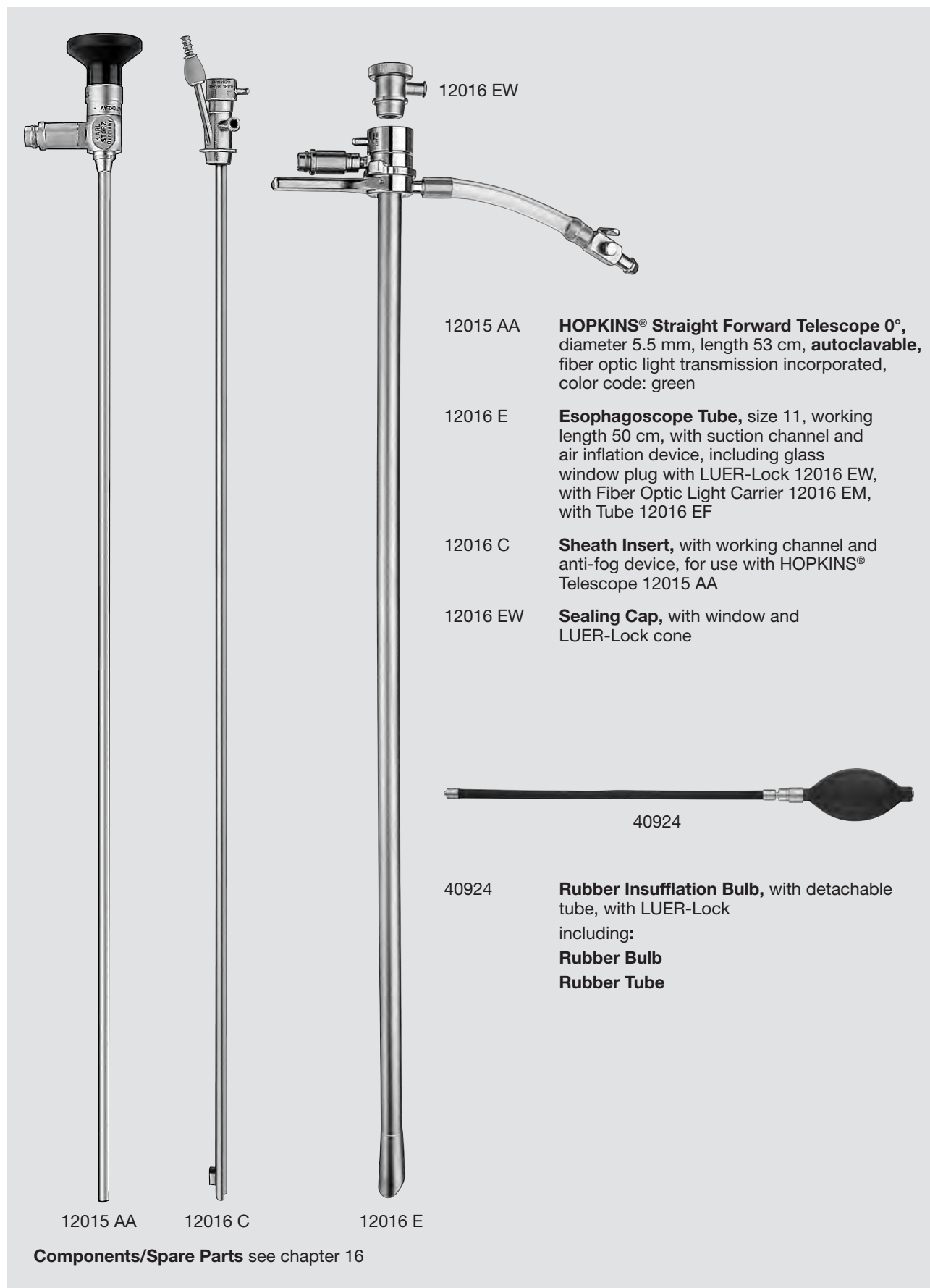
10338 TA



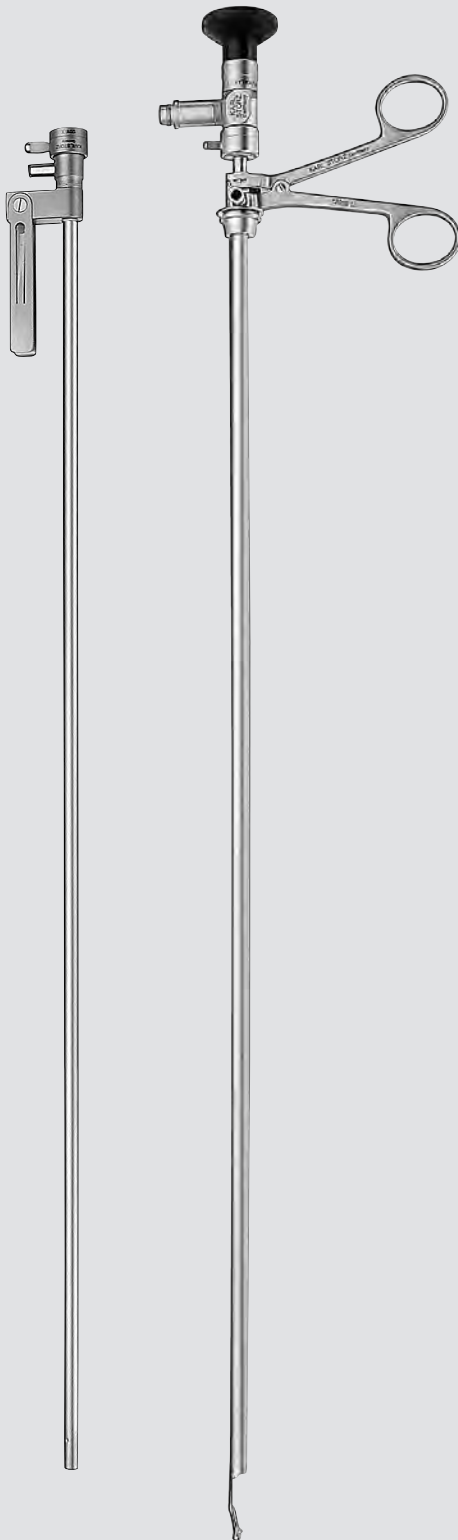
12070

Optical Esophagoscope

with Suction Channel and Air Inflation Device



12015 AA



Instruments for use with HOPKINS® Telescope 12015 AA

- 12016 K **Optical Peanut Forceps**, for large chunks of meat and soft foreign bodies
- 12016 L **Optical Forceps**, spoon-shaped, round, for biopsy
- 12016 M **Optical Forceps**, alligator, large jaws, for hard foreign bodies
- 12016 N **Optical Forceps**, universal, for biopsy, for foreign bodies and removal of denatured tissue
- 12016 X **Telescope Guide**, for use with Esophagoscopes 12060 A/C/E, length 50 cm and HOPKINS® Telescope 12015 AA

12016 X

12016 L

12016 K

12016 L

12016 M

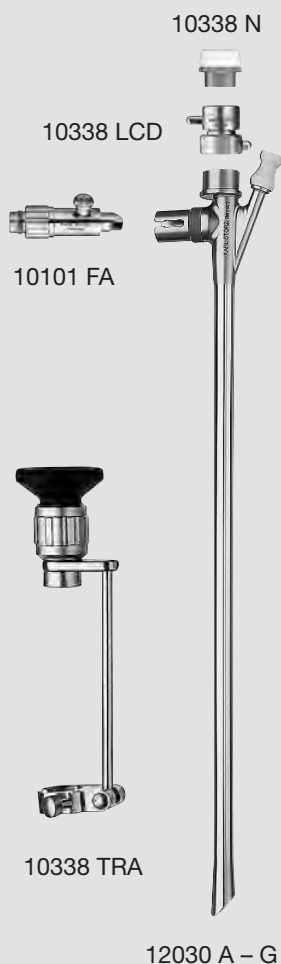
12016 N



11-981

Pediatric Esophagoscopes

with Proximal Illumination



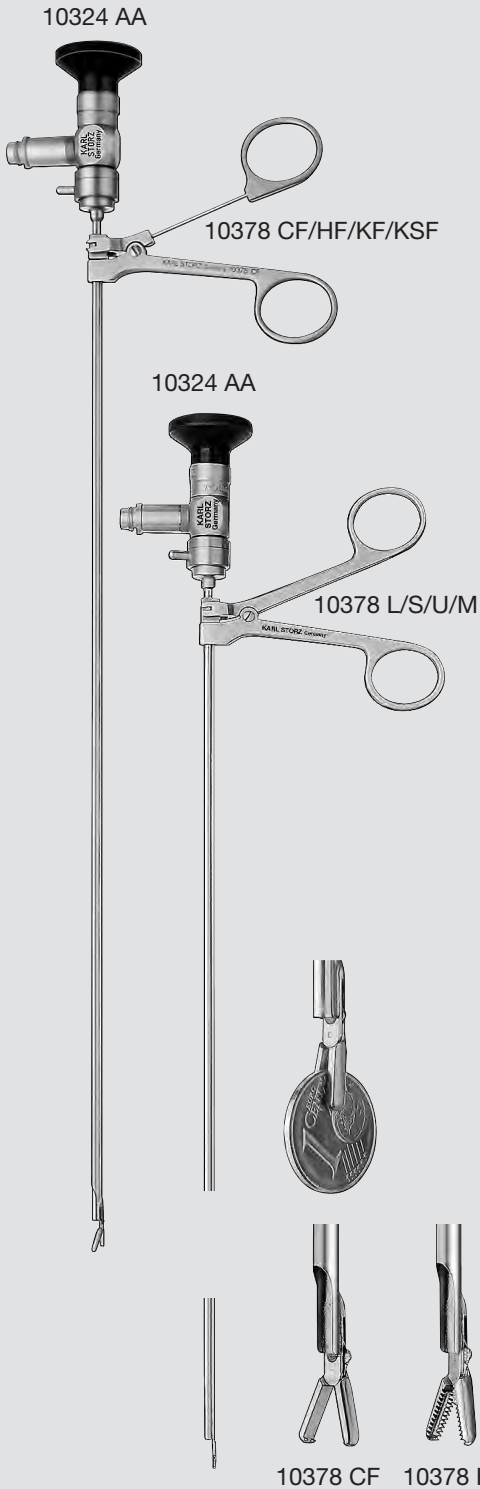
- 12030 A **Esophagoscope Tube**, size 6, length 30 cm
- 12030 B **Same**, size 5
- 12030 C **Same**, size 4
- 12030 F **Esophagoscope Tube**, size 3.5 mm, length 18.5 cm
- 12030 G **Same**, size 3
- 10101 FA **Prismatic Light Deflector**, autoclavable, with connection to fiber optic light cable
- 10338 TRA **Adjustable Magnifier**, autoclavable, swing-away type, with ring adaption
- 10338 N **Rubber Telescope Guide**, for use with telescopes and optical forceps
- 10338 LCD **Telescope Bridge**, for fixed position between bronchoscope and telescope

For use through lateral working channel of esophagoscopes, lengths 30 and 18.5 cm, under control of HOPKINS® Telescopes 10324 AA, 10020 ATA and 10018 AA:

- 10338 U **Forceps**, alligator, spoon-shaped, single action jaws, semiflexible, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10338 X **Forceps**, spoon-shaped, for biopsy, single action jaws, semiflexible, width of jaws 1.2 mm, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B
- 10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B
- 10468 D **Suction Catheter**, 4.5 Fr., with Adaptor 10479 F

Optical Forceps and Scissors

for Pediatric Esophoscopes, size 6 – 3.5, length 30 cm – 18.5 cm



For use with Esophoscopes 12030 A/B/C/F

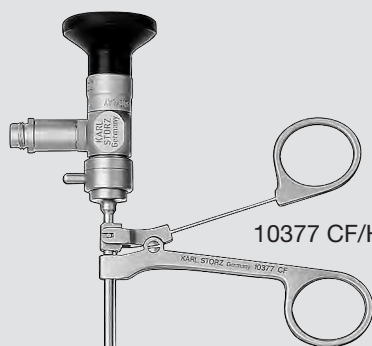
- 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10378 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10378 KSF **Optical Forceps**, VANCOUVER model, for grasping peanut fragments and soft foreign bodies, with spring-action handle
- 10378 L **Optical Forceps**, spoon-shaped, for biopsy
- 10378 S **Optical Scissors**
- 10378 U **Optical Forceps**, universal, for biopsy and foreign bodies removal
- 10378 M **Optical Forceps**, spoon-shaped, oval, for biopsy, large model

6-03s

Optical Forceps

for Pediatric Esophagoscopes, size 3.5, length 18.5 cm

10020 ATA



10377 CF/HF/KF

10020 ATA



10377 L/U

For use with Esophagoscope 12030 F

- 10020 ATA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10377 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10377 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10377 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10377 L **Optical Forceps**, spoon-shaped, for biopsy
- 10377 U **Optical Forceps**, universal, for biopsy and foreign bodies removal



10377 CF

10377 HF

10377 KF

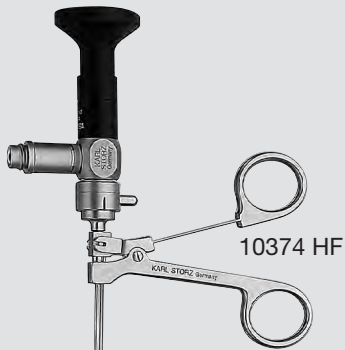
10377 L

10377 U

Optical Forceps

for Pediatric Esophoscopes, size 3.5 – 3, length 18.5 cm

10030 AA



10030 AA

Miniature Straight Forward Telescope 0°, semirigid, autoclavable, fiber optic light transmission incorporated

Direction of view: 0°
Angle of view: 90°
Working length: 30.6 cm
Outer diameter: 1.3 mm
Color code: green

10374 HF

Optical Forceps, with alligator jaws, for grasping hard foreign bodies, with spring-action handle

10374 L

Optical Forceps, spoon-shaped, for biopsy

10030 AA



10374 L



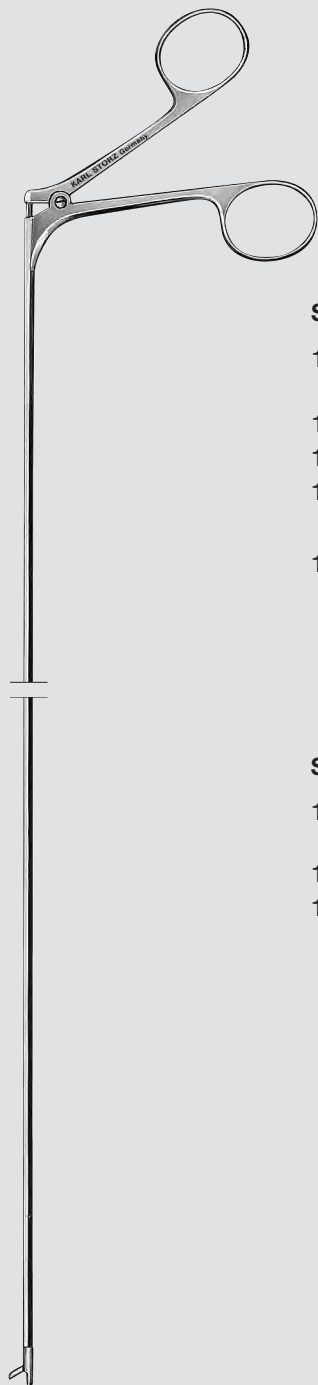
10374 HF



10374 L

Forceps and Scissors for Esophagoscopy

single action jaws



Sheath diameter 2.5 mm, working length 55 cm

- 10366 HL **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 55 cm
- 10366 KL **Same**, for peanuts and soft foreign bodies
- 10366 LL **Same**, spoon-shaped, round, for biopsy
- 10366 UL **Same**, universal, for biopsy and foreign bodies removal
- 10366 SL **Scissors**, straight, for trituration of bone

Sheath diameter 2.5 mm, working length 35 cm

- 10367 H **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 35 cm
- 10367 K **Same**, for peanuts and soft foreign bodies
- 10367 L **Same**, spoon-shaped, round, for biopsy



10366 HL
10367 H



10366 KL
10367 K



10366 LL
10367 L



10366 UL



10366 SL

Esophagoscopic Forceps

double action jaws



Sheath diameter 2.5 mm, working length 55 cm

- 10370 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2.5 mm, working length 55 cm
- 10370 JL **Same**, pointed, serrated, for coins and flat foreign bodies
- 10370 KL **Same**, for peanuts and soft foreign bodies
- 10370 LL **Same**, spoon-shaped, round, for biopsy



10370 HL



10370 JL



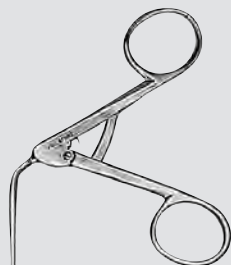
10370 KL



10370 LL

Esophagoscopic Forceps

double action jaws



Sheath diameter 2 mm, working length 45 cm

- 10371 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
- 10371 KL **Same**, for peanuts and soft foreign bodies
- 10371 LL **Same**, spoon-shaped, round, for biopsy
- 10371 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 2 mm, working length 35 cm

- 10371 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 35 cm
- 10371 J **Same**, pointed, serrated, for coins and flat foreign bodies
- 10371 K **Same**, for peanuts and soft foreign bodies
- 10371 L **Same**, spoon-shaped, round, for biopsy
- 10371 P **Same**, spoon-shaped, oval, fenestrated, for biopsy and foreign bodies removal
- 10371 U **Same**, universal, for biopsy and foreign bodies removal



10371 HL
10371 H



10371 J



10371 KL
10371 K



10371 LL
10371 L



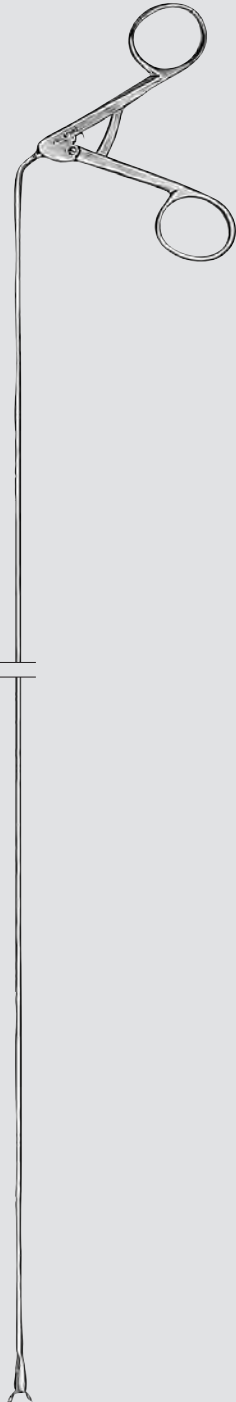
10371 P



10371 UL
10371 U

Esophagoscopic Forceps

double action jaws



Sheath diameter 1.5 mm, working length 35 cm

- 10372 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm
- 10372 JL **Same**, pointed, serrated, for coins and flat foreign bodies
- 10372 KL **Same**, for peanuts and soft foreign bodies
- 10372 LL **Same**, spoon-shaped, round, for biopsy
- 10372 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 1.5 mm, working length 25 cm

- 10372 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 25 cm
- 10372 K **Same**, for peanuts and soft foreign bodies



10372 HL
10372 H



10372 JL



10372 KL
10372 K



10372 LL



10372 UL

Accessories for Esophagoscopy

Suction Tubes, Cotton Carriers and Sponge Holders

10380 AK – CB

10383 AL – F

10381 AL – B

10382 AM – B

10390 BN – LN

10384 AL – B

10385 B

10387 AL – B

Accessories for Esophagoscopy

Suction Tubes, Cotton Carriers and Sponge Holders

Working length 60 cm

10380 AX **Suction Tube**, diameter 4 mm

Working length 55 cm

10380 AL **Suction Tube**, diameter 4 mm
10383 AL **Same**, with cut-off hole
10381 AL **Suction Tube**, with rubber tip, straight, diameter 4 mm
10390 LN **Coagulating Suction Tube**, insulated, with connector pin for unipolar coagulation, diameter 4 mm
10384 AL **Cotton Carrier**
10387 AL **Sponge Holder**, with spring handle

Working length 45 cm

10380 AM **Suction Tube**, diameter 4 mm
10381 AM **Suction Tube**, with rubber tip, straight, diameter 4 mm
10381 BL **Same**, diameter 2 mm
10382 AM **Same**, diameter 4 mm, curved
10383 AM **Suction Tube**, with cut-off hole, diameter 3 mm

Working length 35 cm

10380 CB **Suction Tube**, diameter 2 mm
10380 B **Same**, diameter 3 mm
10380 AK **Same**, diameter 4 mm
10383 B **Suction Tube**, with cut-off hole, diameter 3 mm
10383 BL **Same**, diameter 5.5 mm
10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
10382 B **Same**, curved
10390 BN **Coagulation Suction Tube**, insulated, with connector pin for unipolar coagulation, diameter 3 mm
10384 B **Cotton Applicator**
10385 B **Sponge Holder**
10387 B **Sponge Holder**, with spring handle

Working length 30 cm

10383 DD **Suction Tube**, with cut-off hole, diameter 2 mm
10383 F **Same**, diameter 3 mm

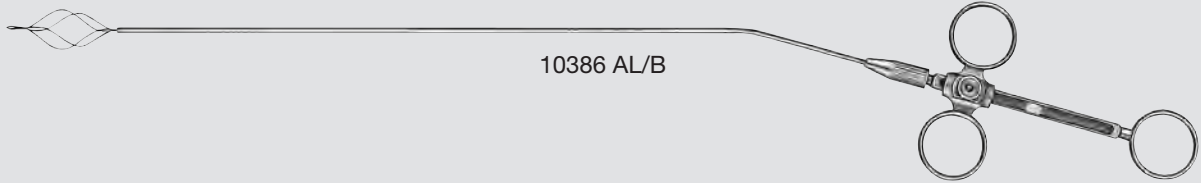
Working length 25 cm

10380 C **Suction Tube**, diameter 2 mm

Components/Spare Parts see chapter 16

Accessories for Esophagoscopy

Foreign Body Baskets



10386 AL

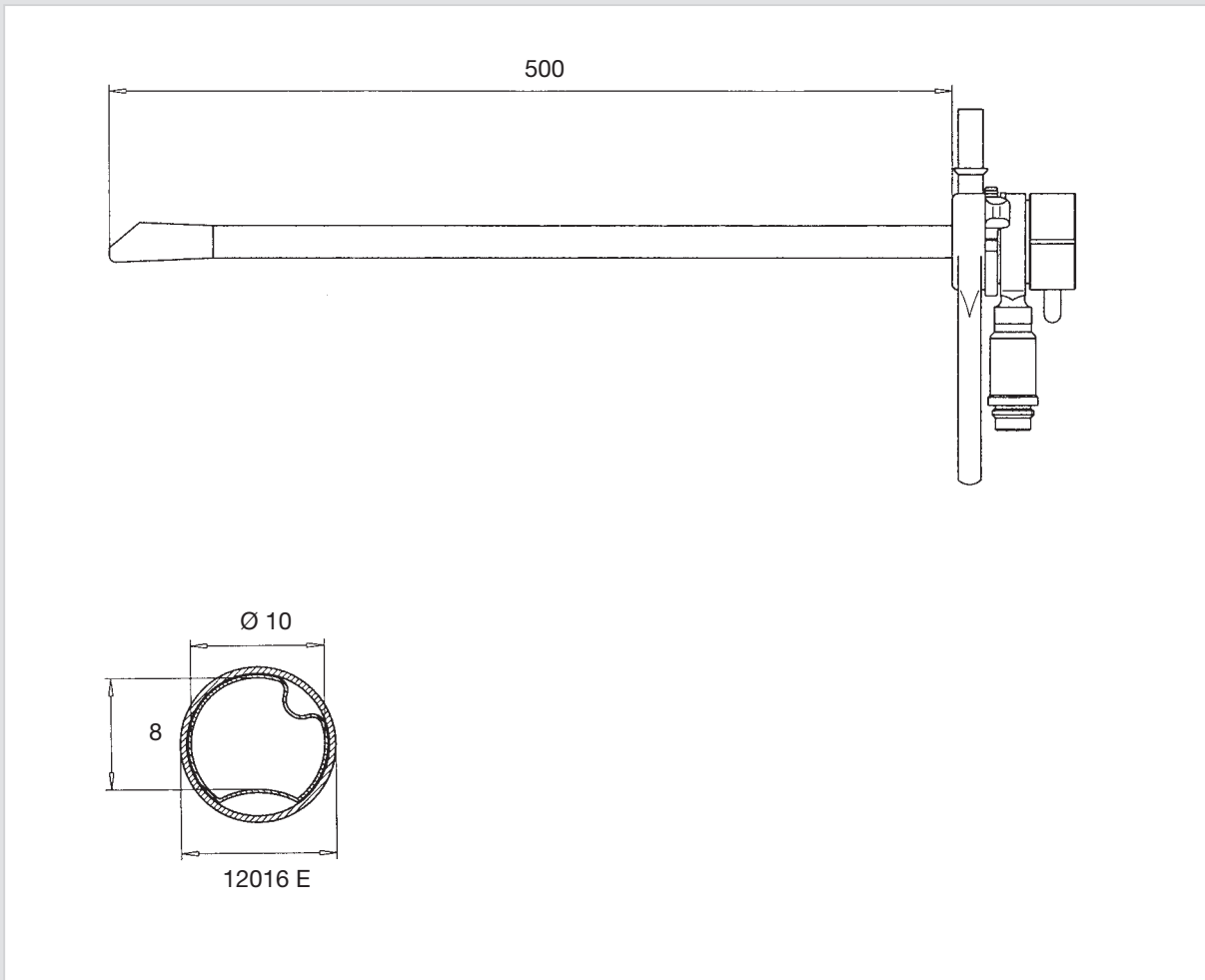
Foreign Body Basket, with ring handle,
working length 55 cm

10386 B

Same, working length 35 cm

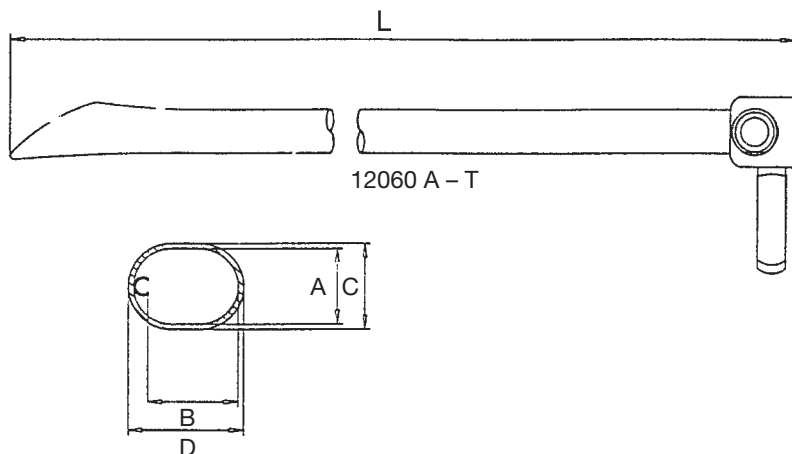
Components/Spare Parts see chapter 16

Dimensions of Esophagoscopes 12016 E



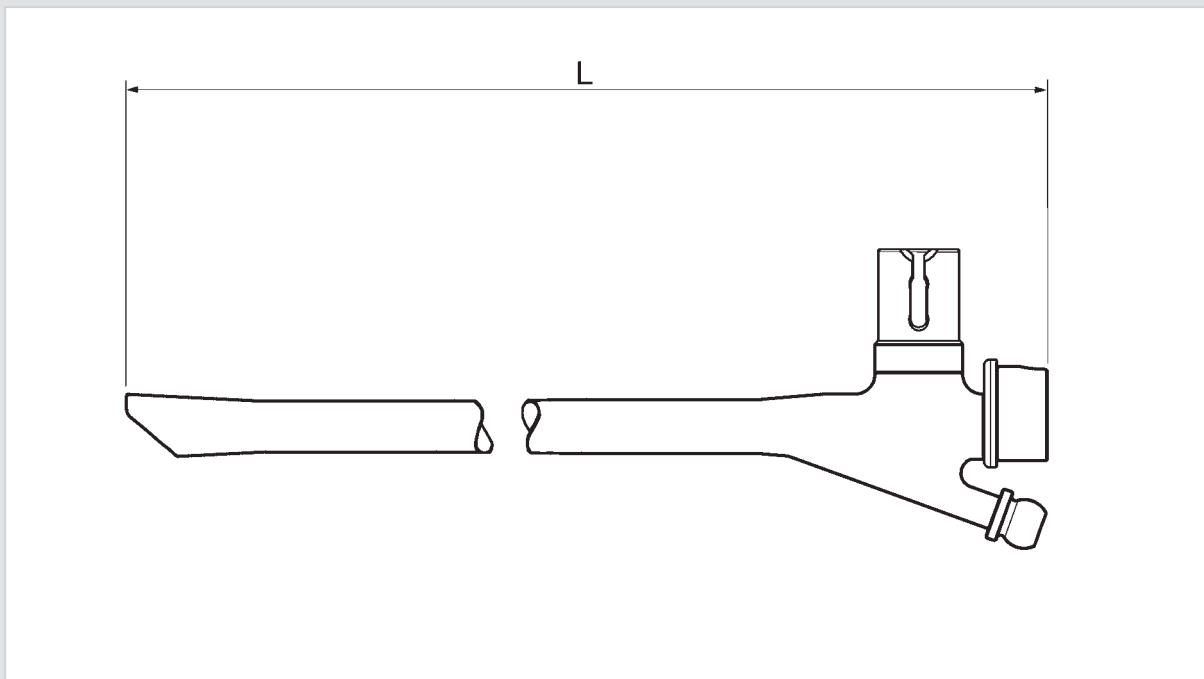
| Cat. No. | Working Length | Outer Diameter Size | Telescopes | Optical Forceps |
|----------|----------------|---------------------|------------|---|
| 12016 E | 50 cm | 11 | 12015 AA | 12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA |

Dimensions of Esophagoscopes 12060



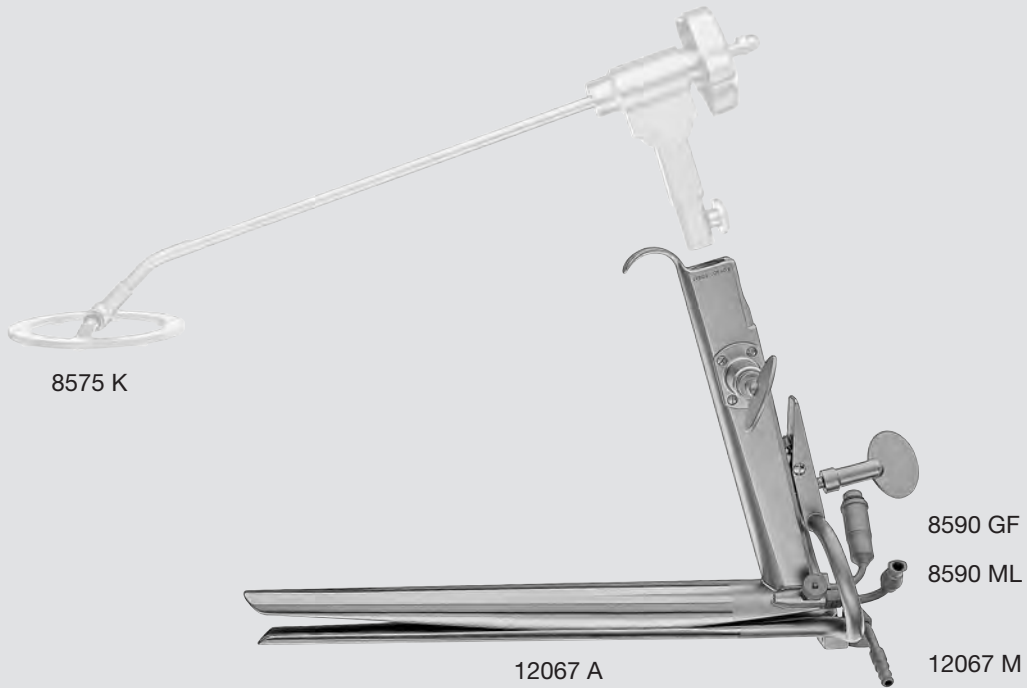
| Cat. No. | Total Length - L - | Inner Diameter Size - A x B - | Outer Diameter Size - C x D - | Telescopes | Optical Forceps |
|----------|-----------------------|----------------------------------|----------------------------------|-----------------------|---|
| 12060 A | 50 cm | 11 x 12 | 12 x 16 | 12015 AA with 12016 X | 12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA |
| 12060 AU | 35 cm | 11 x 12 | 12 x 16 | 12015 AA | |
| 12060 AV | 40 cm | 11 x 12 | 12 x 16 | 12015 AA | |
| 12060 AW | 45 cm | 11 x 12 | 12 x 16 | 12015 AA | |
| 12060 AX | 55 cm | 11 x 12 | 12 x 16 | 12015 AA | - |
| 12060 B | 30 cm | 11 x 12 | 12 x 16 | 10324 AA | 10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA |
| 12060 C | 50 cm | 9 x 10 | 10 x 14 | 12015 AA with 12016 X | 12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA |
| 12060 CV | 40 cm | 9 x 10 | 10 x 14 | 12015 AA | |
| 12060 CX | 55 cm | 9 x 10 | 10 x 14 | 12015 AA | - |
| 12060 D | 30 cm | 9 x 10 | 10 x 14 | 10324 AA | 10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA |
| 12060 E | 50 cm | 7 x 8 | 8 x 12 | 12015 AA with 12016 X | 12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA |
| 12060 EV | 40 cm | 7 x 8 | 8 x 12 | 12015 AA | |
| 12060 F | 30 cm | 7 x 8 | 8 x 12 | 10324 AA | 10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA |
| 12060 H | 30 cm | 6 x 6 | 7 x 9 | 10324 AA | |
| 12060 R | 20 cm | 11 x 12 | 12 x 16 | 10324 AA | |
| 12060 S | 20 cm | 9 x 10 | 10 x 14 | 10324 AA | |
| 12060 T | 20 cm | 7 x 8 | 8 x 12 | 10324 AA | |
| | | | | | |

Dimensions of Esophagoscopes 12030

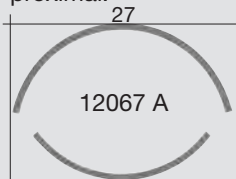


| Cat. No. | Size | Total Length - L - | Telescopes | Optical Forceps |
|----------|------|-----------------------|------------------------|--|
| 12030 A | 6 | 30 cm | 10324 AA | 10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 M, 10378 S, with 10324 AA |
| 12030 B | 5 | 30 cm | 10324 AA | |
| 12030 C | 4 | 30 cm | 10324 AA | |
| 12030 F | 3.5 | 18.5 cm | 10020 ATA, 10018 AA | 10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA |
| 12030 G | 3 | 18.5 cm | 10018 AA | 10374 HF, 10374 L with 10030 AA |

WEERDA Distending Diverticuloscope for CO₂ LASER Technique

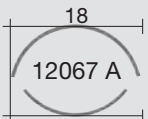


Outer dimensions in mm: 12067 A
proximal:



Spread: max. 40
min. 29

distal:



Spread: max. 65
min. 7

12067 A **WEERDA Distending Diverticuloscope**, length 24 cm,
with adaptor for Suction Tube 12067 M

Proximal size open: max. 40 x 27 mm
min. 29 x 27 mm

Distal size open: max. 65 x 18 mm
min. 7 x 18 mm

8590 GF **Fiber Optic Light Carrier**, for distal illumination,
working length 14 cm

8590 ML **Suction Tube**, to remove vapor, for LASER treatment,
outer diameter 3 mm

12067 M **Suction Tube**, to remove vapor, flat, size 6 x 3 mm

8575 K **Laryngoscope Holder and Chest Support**,
GÖTTINGEN model, with adjustment wheel
including:

Support Rod, movable, with metal ring, diameter 9 cm,
length 34 cm

or

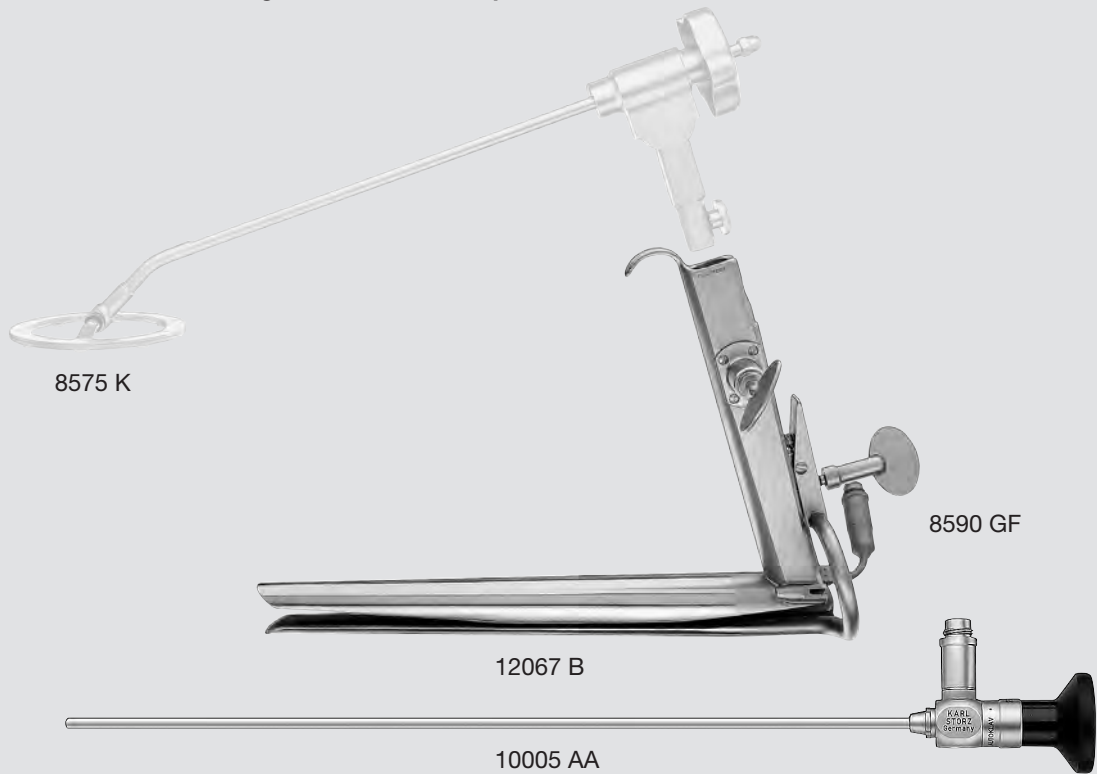
8575 KC **BENJAMIN-PARSONS Laryngoscope Holder and Chest
Support**, GÖTTINGEN model, with adjustment wheel
including:

BENJAMIN-PARSONS Support Rod, movable, with metal ring,
diameter 12 cm and 2 lateral set screws, length 34 cm

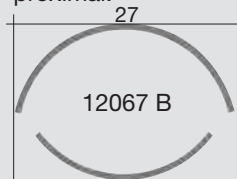
Components/Spare Parts see chapter 16

WEERDA Distending Diverticuloscope for Stapling Technique

For use with HOPKINS® II Straight Forward Telescope 10005 AA

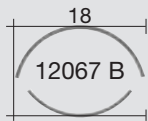


Outer dimensions in mm: 12067 B
proximal:



Spread: max. 40
min. 29

distal:



Spread: max. 65
min. 7

12067 B WEERDA **Distending Diverticuloscope**, length 24 cm,
without adaptor for Suction Tube 12067 M

Proximal size open: max. 40 x 27 mm
min. 29 x 27 mm

Distal size open: max. 65 x 18 mm
min. 7 x 18 mm

10005 AA **HOPKINS® II Straight Forward Telescope 0°**,
enlarged view, diameter 4 mm, length 30 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: green

8590 GF **Fiber Optic Light Carrier**, for distal illumination,
working length 14 cm

8575 K **Laryngoscope Holder and Chest Support**,
GÖTTINGEN model, with adjustment wheel
including:

Support Rod, movable, with metal ring, diameter 9 cm,
length 34 cm

or

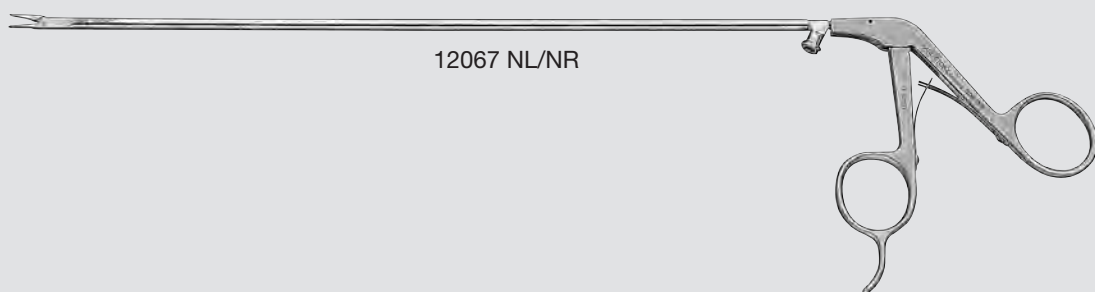
8575 KC **BENJAMIN-PARSONS Laryngoscope Holder and Chest
Support**, GÖTTINGEN model, with adjustment wheel
including:

BENJAMIN-PARSONS Support Rod, movable, with metal ring,
diameter 12 cm and 2 lateral set screws, length 34 cm

Components/Spare Parts see chapter 16

Instruments for Diverticulosopes

Clip Forceps



12067 NL/NR



12067 NL

Clip Forceps, jaws curved to left, with cleaning connector, working length 30 cm, for use with Clip 8665 T



12067 NR

Same, jaws curved to right



8665 T

Clip, titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each, for use with Forceps 8665 L/R, 12067 NL/NR



**BRONCHOSCOPY
TRACHEOSCOPY**

Video Bronchoscope for Autofluorescence

for use with TELECAM SL II FI SCB 20213011U1

STORZ
KARL STORZ — ENDOSKOPE



11900 AP

Video Bronchoscope for Autofluorescence

for use with TELECAM SL II FI SCB 20 2130 11U1

11900 AP **Video Bronchoscope for Autofluorescence and White Light Diagnosis,**
color system **PAL**, including mounted Suction Unit 11900 AE, for use
with TELECAM SL II FI SCB **20 2130 11U1**

Working channel: 2.3 mm
Direction of view: 0°
Angle of view: 120°
Deflection up/down: 180°/100°
Depth of view: 3 – 50 mm
Working length: 61 cm
Outer diameter: 6.2 mm

Following accessories included:

27677 KV **Case**
20 2130 70 Video Connecting Cable
13272 **Mouthpiece**
11001 KL **Biopsy Forceps**, flexible, spoon-shaped, round, double
action jaws, diameter 1.8 mm, working length 120 cm
13242 LX **Leakage Tester**, with bulb and manometer
11025 XE **Pressure Compensation Cap**, for ventilation
during gas sterilization
27651 B **Cleaning Brush**, flexible, for working channel
diameter 1.8 – 2.6 mm, length 100 cm
13991 SS **Irrigation Tube**, for working channel
27656 B **Instrument Oil**, 50 ml, silicone-free
13990 SFN **Protective Film**

Optional accessories see pages 632-635

Further information and accessories for the video bronchoscope for autofluorescence
see chapter 13, FLUORESCENCE

Video Bronchoscope

for use with TELECAM SL II SCB 20 2130 11
and TELE PACK X 20 0450 01-EN

STORZ
KARL STORZ — ENDOSKOPE



11900 BP

Video Bronchoscope

for use with TELECAM SL II SCB 20 2130 11
and TELE PACK X 20 0450 01-EN

11900 BP **Video Bronchoscope**, color system **PAL**, including mounted Suction Unit 11900 AE, for use with TELECAM® SL II 20 2130 11 and TELE PACK 20 0430 12-020

Working channel: 2.3 mm
Direction of view: 0°
Angle of view: 120°
Deflection up/down: 180°/100°
Depth of view: 3 – 50 mm
Working length: 61 cm
Outer diameter: 6.2 mm

Following accessories included:

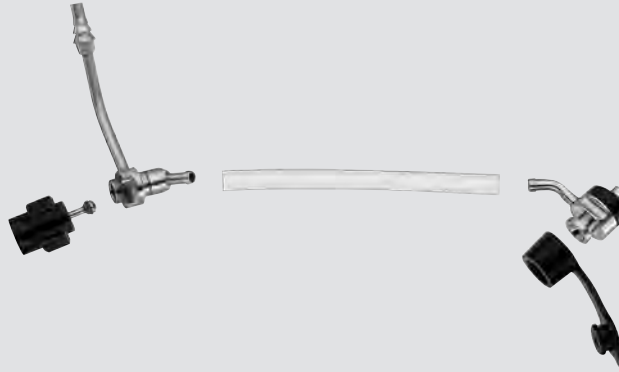
27677 KV **Case**
20 2130 70 **Video Connecting Cable**
13272 **Mouthpiece**
11001 KL **Biopsy Forceps**, flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120 cm
13242 LX **Leakage Tester**, with bulb and manometer
11025 XE **Pressure Compensation Cap**, for ventilation during gas sterilization
27651 B **Cleaning Brush**, flexible, for working channel diameter 1.8 – 2.6 mm, length 100 cm
13991 SS **Irrigation Tube**, for working channel
27656 B **Instrument Oil**, 50 ml, silicone-free
13990 SFN **Protective Film**

Optional accessories see pages 632-635

Further camera systems and light sources suitable for use with video bronchoscopes
see catalog TELEPRESENCE

Video Bronchoscope

for use with TELECAM SL II SCB 20213011
and TELE PACK X 20 0450 01-EN



- 11900 AE **Suction Unit**, set for Video Bronchoscopes 11900 AP
and 11900 BP, **autoclavable**
including:
Suction Valve
Valve Adaptor
Connecting Cable, package of 10
Suction Cylinder
Rubber Leaflet Valve, package of 10

Please note:

Further instruments suitable for use with Video Bronchoscopes 11900 AP and 11900 BP
with diameter ≤ 1.8 mm, see pages 632-635

TELECAM camera systems see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope

STORZ
KARL STORZ — ENDOSKOPE

TELE PACK X is a compact, portable and flexible system that can be used for a wide range of applications from the doctor's office through to the emergency room.

To enable swift and easy work, TELE PACK X combines all that is needed: monitor, camera and light source.

Crystal clear display

- 15" LCD display
- Image rotation
- 24-bit color intensity for natural color rendition
- DVI-D video output for connecting HD monitors

Flexible storage possibilities

- SD card slot for high storage capacity
- USB ports for external hard drives, USB flash drives and post-script printers
- Picture gallery for records
- Playback of saved videos
- Print-ready patient report documentation

Consideration has also been given to documentation: Integrated data management enables comprehensive recording of medical examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Natural illumination

- HiLux 50 Watt high-performance light source
- Natural colour rendition close to daylight with a color temperature of 5700 K
- Up to 1000 hours lamp operating time

Easy control combined with highest safety

- Membrane keyboard for wipe-down disinfection
- Hot keys for rapid and direct adjustment
- Arrow keys for intuitive control
- Connection socket for pedal control

Additional information

- Sturdy, portable housing
- Ergonomically designed handle for convenient transport
- Universal power supply unit: 100 – 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 450 x 350 x 150 mm
- Weight: 7 kg



TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope



20 0450 01-EN

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope

20 0450 01-EN TELE PACK X

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC**, with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

Optional accessories in use with video bronchoscopes:

20 0450 31 Light Adaptor for Video Endoscopes, for TELE PACK X in combination with KARL STORZ Video Bronchoscopes 11900 BP/BN and KARL STORZ video gastroscopes


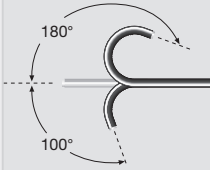

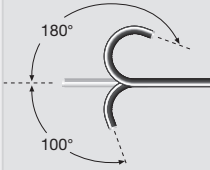

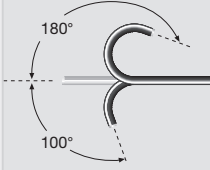

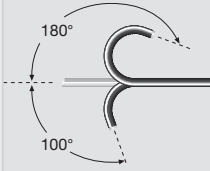

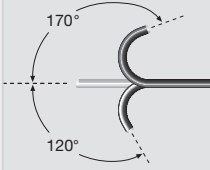

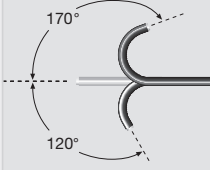
Specifications:

| | | | |
|-------------------------|--|-------------------|---|
| Power input | 100 W | Image format | JPG |
| Power supply | 100-240 VAC | Video codec | MPEG-4 |
| Dimensions w x h x d | 450 x 350 x 150 | Video format | PAL/NTSC |
| Weight | 7 kg | Storage interface | USB 2.0; SD-memory card (SDHC compatible) |
| Interfaces | - Video interface: DVI-D (in/out) - Audio: 3.5 mm jack (1x side, 1x rear), Line in, Line out - Footswitch port: 5-pin socket for two-pedal footswitch - Printer port: USB - Printer control language: PostScript | TFT monitor | - screen size: 15" - Resolution: 1024 x 768 - Contrast: 700:1 |
| Illumination | - Lamp: Metal-halid 50 Watt - Color temperature 5700 K - Average life span: 1000 h | Loudspeaker | Power: 2 W |

8-111

Components/Spare Parts see chapter 16

Broncho-Fiberscopes

| Broncho-Fiberscopes | Art. No. | | Deflection up/down | Direction of view | Angle of view | |
|--|----------|---|--|-------------------|---------------|--|
| 6.4 mm x 54 cm Broncho-Fiberscope | 11004 BC |  |  | 0° | 110° | |
| 5.6 mm x 54 cm Broncho-Fiberscope | 11009 BC |  |  | 0° | 110° | |
| 5 mm x 54 cm Broncho-Fiberscope for Adults | 11001 BN |  |  | 0° | 110° | |
| 3.7 mm x 54 cm Broncho-Fiberscope for Children | 11002 BD |  |  | 0° | 90° | |
| 2.8 mm x 54 cm Broncho-Fiberscope | 11003 BC |  |  | 0° | 90° | |
| 2.8 mm x 70 cm Broncho-Fiberscope | 11005 BC |  |  | 0° | 90° | |








11-981

Broncho-Fiberscopes for Autofluorescence see chapter 13, FLUORESCENCE
Accessories included in delivery and optional accessories see pages 630-635

| | Working length | Total length | Working channel inner diameter | Distal tip outer diameter | Accessories (included in delivery) | | | | | | |
|--|----------------|--------------|--------------------------------|---------------------------|------------------------------------|--------------------|----------------|-------------|----------------|----------------|------------------|
| | | | | | Case | Pressure Comp. Cap | Leakage Tester | Mouth Piece | Cleaning Brush | Biopsy Forceps | Grasping Forceps |
| | 54 cm | 82 cm | 2.8 mm | 6.4 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 C | 11001 KL | 11002 KS |
| | 54 cm | 82 cm | 2.6 mm | 5.5 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 C | 11001 KL | 11002 KS |
| | 54 cm | 82 cm | 2.3 mm | 5.2 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 B | 11001 KL | 11002 KS |
| | 54 cm | 82 cm | 1.5 mm | 3.6 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 AL | 11003 MA | 11003 MB |
| | 54 cm | 82 cm | 1.2 mm | 2.5 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 AK | 11003 MA | 11003 MB |
| | 70 cm | 98 cm | 1.2 mm | 2.5 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 AL | 11003 MA | 11003 MB |

Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

| Accessories included | | Dia- meter | Length | for use with | | | | | | | | |
|---|----------|---|--------|--------------|----------|----------|----------|----------|----------|----------|----------|---|
| | | | | 11004 BC | 11009 BC | 11001 BN | 11002 BD | 11003 BC | 11005 BC | 11900 AP | 11900 BP | |
|  | 11003 MB | Grasping Forceps , flexible, double action jaws | 1 mm | 110 cm | - | - | - | ● | ● | ● | - | - |
|  | 11002 KS | Grasping Forceps , alligator, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 11003 MA | Biopsy Forceps , oval, flexible, double action jaws | 1 mm | 110 cm | - | - | - | ● | ● | ● | - | - |
|  | 11001 KL | Biopsy Forceps , spoon-shaped, round, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 11025 E | Pressure Compensation Cap , for ventilation during gas sterilization | | | ● | ● | ● | ● | ● | ● | - | - |
| | 11025 XE | Same | | | - | - | - | - | - | - | ● | ● |
|  | 13242 XL | Leakage Tester , with bulb and manometer | | | ● | ● | ● | ● | ● | ● | - | - |
| | 13242 LX | Same | | | - | - | - | - | - | - | ● | ● |
|  | 13272 | Mouthpiece | | | ● | ● | ● | ● | ● | ● | ● | ● |

Accessories








for Broncho-Fiberscopes and Video Bronchoscopes

| Accessories included | | | for use with | | | | | | | |
|---|-----------|--|--------------|----------|----------|----------|----------|----------|----------|----------|
| | | | 11004 BC | 11009 BC | 11001 BN | 11002 BD | 11003 BC | 11005 BC | 11900 AP | 11900 BP |
|  | 27651 C | Cleaning Brush , round, flexible, outer diameter 4 mm, for working channel diameter 2.4 – 3.6 mm, length 230 cm | ● | ● | - | - | - | - | - | - |
|  | 27651 B | Cleaning Brush , flexible, round, outer diameter 3 mm, for working channel diameter 1.8 – 2.6 mm, length 100 cm | - | - | ● | - | - | - | ● | ● |
|  | 27651 AL | Cleaning Brush , round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 150 cm | - | - | - | ● | - | ● | - | - |
|  | 27651 AK | Cleaning Brush , round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm | - | - | - | - | ● | - | - | - |
|  | 20213070 | Video Connecting Cable | - | - | - | - | - | - | ● | ● |
|  | 13991 SS | Irrigation Tube | - | - | - | - | - | - | ● | ● |
|  | 27656 B | Instrument Oil , 50 ml, silicone-free | - | - | - | - | - | - | ● | ● |
|  | 13990 SFN | Protective Film | ● | ● | ● | ● | ● | ● | ● | ● |

5-061

Optional Accessories





for Broncho-Fiberscopes and Video Bronchoscopes

| | | | for use with | | | | | | | | | |
|---|----------|--|---------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | Dia- meter | Length | 11004 BC | 11009 BC | 11001 BN | 11002 BD | 11003 BC | 11005 BC | 11900 AP | 11900 BP |
|  | 11002 KT | Grasping Forceps , alligator, round, flexible, double action jaws | | | 1.8 mm | 120 cm | ● | ● | ● | - | - | - |
|  | 11002 KU | Grasping Forceps , spoon-shaped, serrated, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 11002 KX | Grasping Forceps , alligator, serrated, 3x 4 teeth, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 11002 KZ | Grasping Forceps , serrated, 1x 2 teeth, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 11001 KM | Biopsy Forceps , spoon-shaped, round, with spike, fenestrated, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 13250 KL | Biopsy Forceps , spoon-shaped, round, fenestrated, flexible, double action jaws | 2.3 mm | 120 cm | ● | ● | - | - | - | - | - | - |
|  | 13252 KS | Grasping Forceps , alligator, flexible, double action jaws | 2.3 mm | 120 cm | ● | ● | - | - | - | - | - | - |

Optional Accessories








for Broncho-Fiberscopes and Video Bronchoscopes

for use with

| | | | 11004 BC | 11009 BC | 11001 BN | 11002 BD | 11003 BC | 11005 BC | 11900 AP | 11900 BP |
|---|----------|--|----------|----------|----------|----------|----------|----------|----------|----------|
|  | 10770 B | Button Electrode , flexible, with connector pin for unipolar coagulation, diameter 1.7 mm, length 80 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 11007 BS | Brush , for cytology, outer diameter 1.7 mm, working length 80 cm | ● | ● | ● | - | - | - | ● | ● |
|  | 11007 E | Brush , package of 10 | ● | ● | ● | - | - | - | ● | ● |
|  | 11008 | Suction Catheter , 4.5 Fr., length 100 cm, with Adaptor 10479 F | ● | ● | ● | - | - | - | ● | ● |

Optional Accessories

for Broncho-Fiberscopes

| | | | for use with | | | | | |
|---|----------|---|--------------|----------|----------|----------|----------|----------|
| | | | 11004 BC | 11009 BC | 11001 BN | 11002 BD | 11003 BC | 11005 BC |
|  | 11008 E | Catheter , 5 Fr., without adaptor | ● | ● | ● | - | - | - |
|  | 10479 F | Adaptor , for Suction Catheter 10468 D, 10478 D and 11008 E | ● | ● | ● | - | - | - |
|  | 11301 CA | Leaflet Valve , for single use, package of 20 | ● | ● | ● | ● | ● | ● |
|  | 11301 CB | Suction Valve , reusable | ● | ● | ● | ● | ● | ● |
|  | 11301 CD | Irrigation Adaptor , for machine cleaning, reusable, for fiberscopes | ● | ● | ● | ● | ● | ● |
|  | 11301 CE | Suction Valve , for single use, package of 20 | ● | ● | ● | ● | ● | ● |
|  | 11301 BM | Adaptor , for leakage test, for Belimed washer-disinfectors | ● | ● | ● | ● | ● | ● |

Optional Accessories

for Broncho-Fiberscopes

| | | for use with | | | | | |
|---|--|--------------|----------|----------|----------|----------|----------|
| | | 11004 BC | 11009 BC | 11001 BN | 11002 BD | 11003 BC | 11005 BC |
|  | 11301 FF2 Adaptor for MIELE Cleaning Machines , with safety valve, for automatic leakage test of flexible KARL STORZ endoscopes | • | • | • | • | • | • |
|  | 11301 GG2 Adaptor , for cleaning and disinfecting the irrigation and working channels of flexible endoscopes, for MIELE-ETD washer/disinfectors | • | • | • | • | • | • |
|  | 11301 HH Adaptor for BHT Cleaning Machines , for automatic leakage test of flexible KARL STORZ endoscopes | • | • | • | • | • | • |
|  | 11301 KK2 Adaptor , for working channel of flexible endoscopes, for MIELE-ETD 03 washer/disinfectors Please note: Adaptors 11301 FF2 and 11301 GG2 have to be ordered separately! | • | • | • | • | • | • |
|  | 11301 D4 Battery Light Source LED for Endoscopes , with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, suitable for wipe disinfection , with 2 Photo Batteries 121306 P | • | • | • | • | • | • |
| | 121306 P Photo Battery , lithium, 3 V, CR 123 A | | | | | | |

3-11

Components/Spare Parts see chapter 16

UNIMAT® 30

Suction System

Special Features:

- High suction performance of 30 l/min
- Particularly low noise and vibration
- Fast vacuum build-up to 85 kPa
- Maintenance-free cylinder/piston system
- Very easy to use
- Hydrophobic bacterial filter protects pump
- Problem-free cleaning
- For use in the doctor's office or hospital



25 3200 01 UNIMAT® 30, Suction Pump Set,
power supply 230 VAC, 50/60 Hz
including:


- Bacterial Filter**
- Secretion Bottle, 2 l**
- Bottle Cap, with grip**
- Connecting Tube, short**
- Patient Tube**
- Overflow Case**
- Mains Cord, length 300 cm**
- VACUsafe Promotion Pack Suction***

25 3200 01C Same, power supply 115 VAC, 50/60 Hz

Specifications:

| | |
|-------------------------|---------------------------------|
| Suction performance | 30 l/min |
| Vacuum | up to 85kPa, 640 mmHg |
| Power supply | 115/230 VAC, 50/60 Hz |
| Dimensions w x h x d | 245 x 345 x 282 mm |
| Weight | 7 kg |
| Certified to | IEC 601-1, CE label acc. to MDD |

| | |
|-----------------------------------|--|
| Rated power/ power consumption | 1A, 100 Watt (115 VAC) 0.45 A, 100 Watt (230 VAC) |
| Protection class | protection class I, BF, IPX 1 |
| Inspections & certifications | MDD 93/42 EWG, EN 60601-1, EN 60601-1-2, EN 10079-1, ISO 9001, UL 2601-1 |

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany







Optional accessories for UNIMAT® 30 see page 637

Components/Spare Parts see chapter 16




Optional Accessories

for UNIMAT® 30

Accessories

| | | |
|---|--------------------------|---|
|  | for Bronchoscopy: | |
| | 10432 N | Aspirator , for collecting secretions, with cut-off hole, with Spare Glass 10432 E, can be connected to suction tubes or suction catheters |
| | 10432 T | Same , without cut-off hole |
|  | 25 3200 80 | Bacterial Filter |
| | 25 3200 81 | Secretion Bottle , 2 l |
| | 25 3200 82 | Bottle Cap , with grip |
| | 25 3200 85 | Overflow Case |
|  | 25 3200 83 | Connecting Tube , short |
|  | 25 3200 84 | Patient Tube |
|  | 400 A | Mains Cord , length 300 cm |
|  | 29005 PH | Pump Holder , for attaching suction pump UNIMAT® 30 25 3200 01 to equipment cart, for mounting to 2 Equipment Rails 29003 GS |

Single-use accessories from mtp*

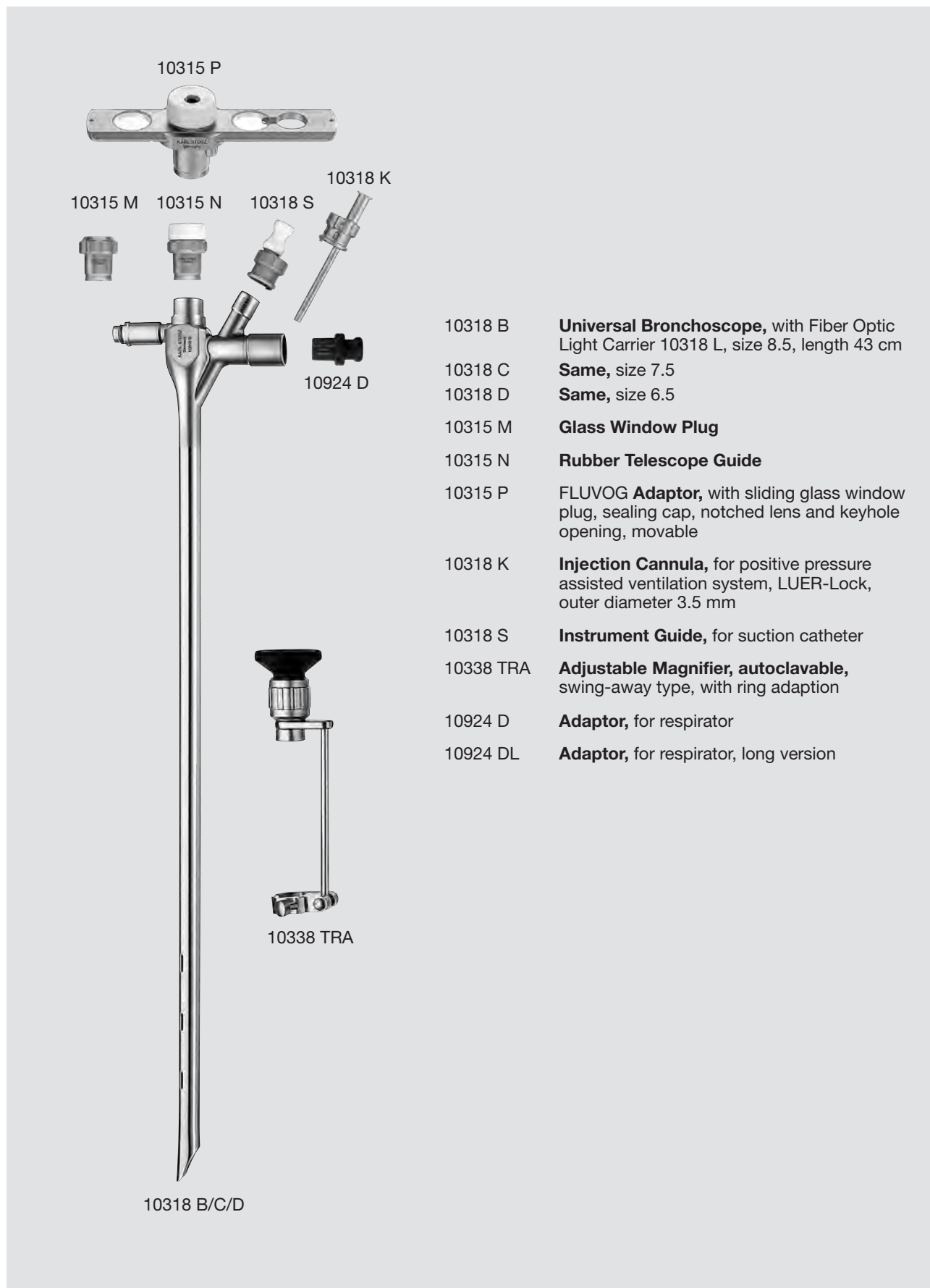
| | |
|---|--|
|  | VACUsafe Canister , 1.5 l, 2 l and 3 l |
| | VACUsafe Suction Bag , 1.5 l, 2 l, 3 l, with filter for single use, color code: green |
|  | Gelling Granulate , in 20 g bag |
|  | VACUsafe Suction Tube , with red and blue multiadaptor for single use, unsterile, length 170 cm |
| | VACUsafe Connecting Tube , with green multiadaptors, unsterile, length 30 cm |
| | VACUsafe Canister Holder , for 25 x 10 mm and 34 x 8 mm rails |



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Universal Bronchoscopes for Adults

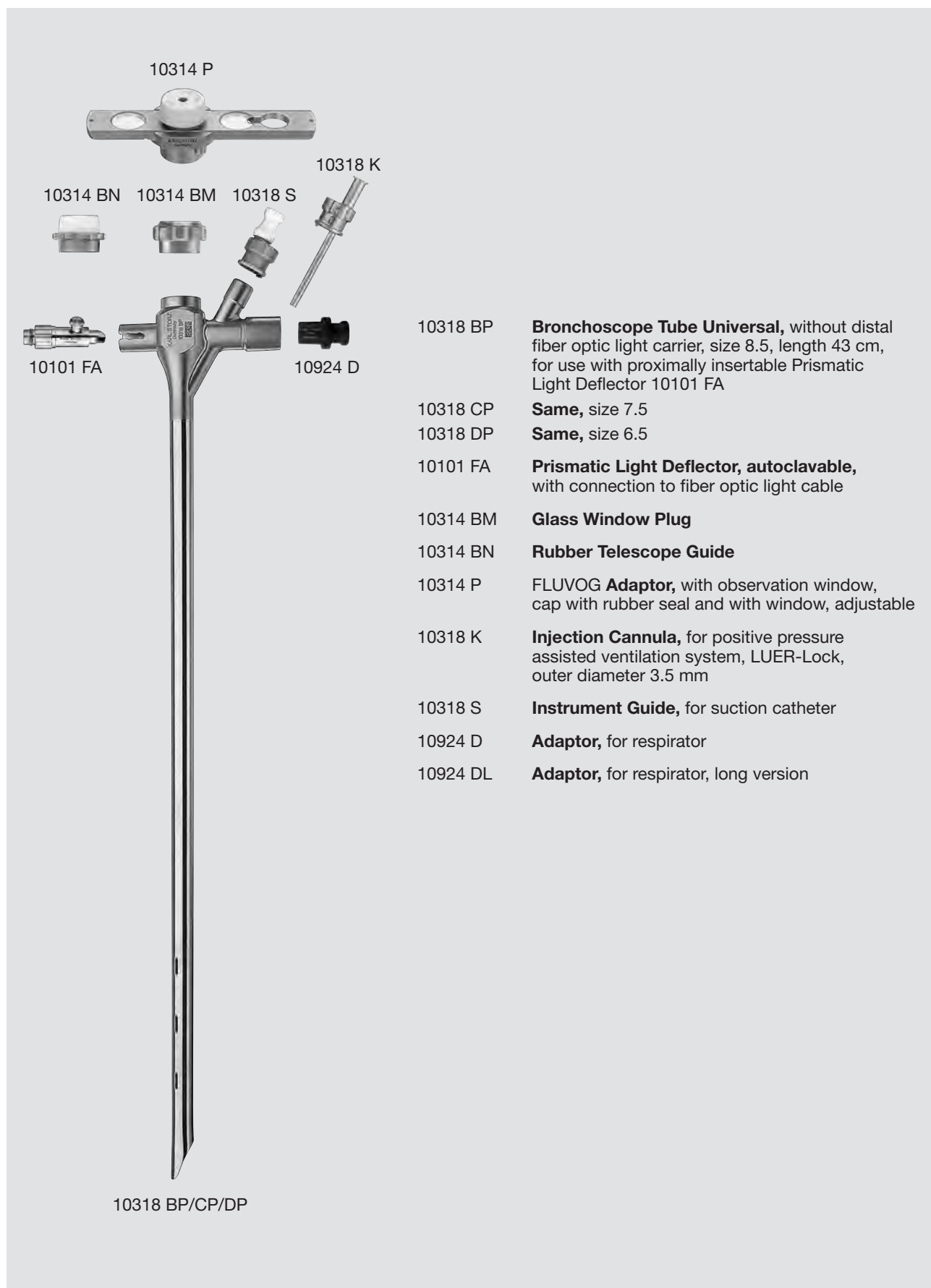
Standard model with fiber optic light carrier for distal illumination



- 10318 B **Universal Bronchoscope**, with Fiber Optic Light Carrier 10318 L, size 8.5, length 43 cm
- 10318 C **Same**, size 7.5
- 10318 D **Same**, size 6.5
- 10315 M **Glass Window Plug**
- 10315 N **Rubber Telescope Guide**
- 10315 P **FLUVOG Adaptor**, with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10338 TRA **Adjustable Magnifier**, autoclavable, swing-away type, with ring adaption
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version

Universal Bronchoscopes for Adults

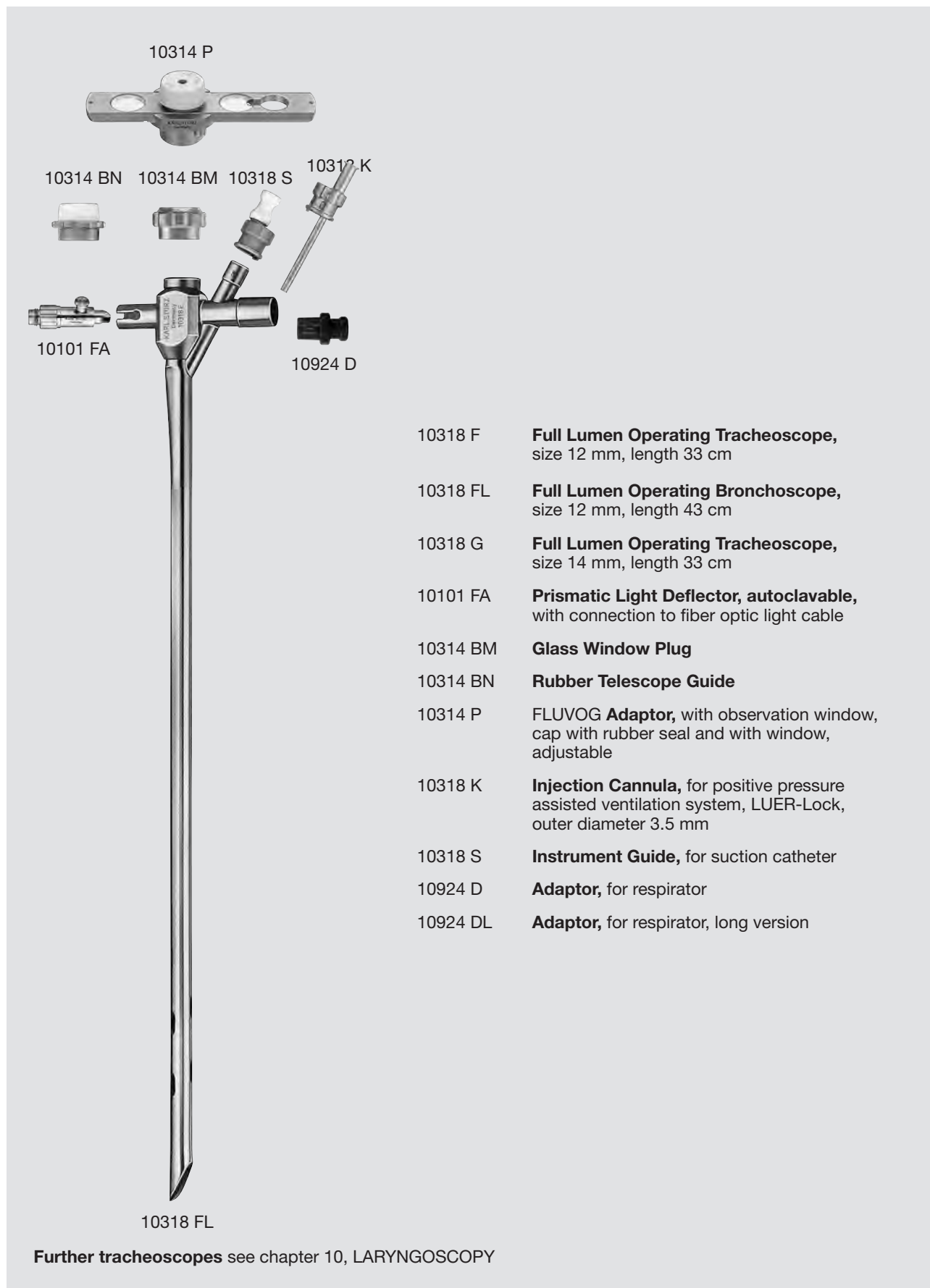
with proximal illumination



- 10318 BP **Bronchoscope Tube Universal**, without distal fiber optic light carrier, size 8.5, length 43 cm, for use with proximally insertable Prismatic Light Deflector 10101 FA
- 10318 CP **Same**, size 7.5
- 10318 DP **Same**, size 6.5
- 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P FLUVOG **Adaptor**, with observation window, cap with rubber seal and with window, adjustable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version

Full Lumen Operating Tracheo-Bronchoscopes

with proximal illumination



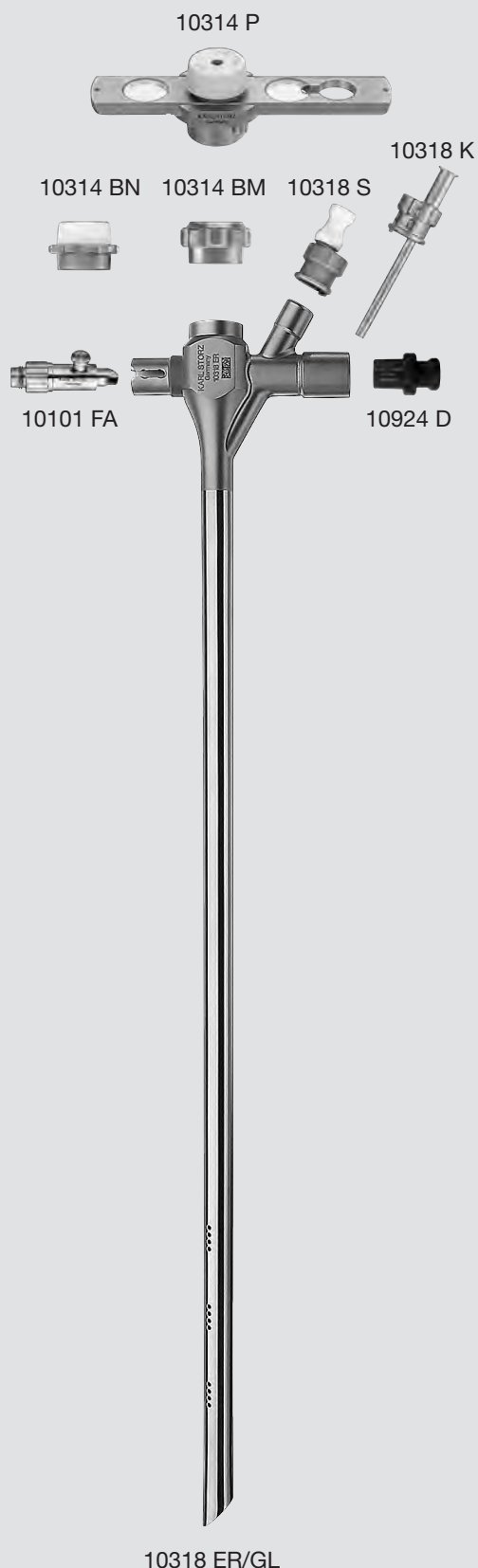
- 10318 F **Full Lumen Operating Tracheoscope,**
size 12 mm, length 33 cm
- 10318 FL **Full Lumen Operating Bronchoscope,**
size 12 mm, length 43 cm
- 10318 G **Full Lumen Operating Tracheoscope,**
size 14 mm, length 33 cm
- 10101 FA **Prismatic Light Deflector, autoclavable,**
with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P **FLUVOG Adaptor, with observation window,**
cap with rubber seal and with window,
adjustable
- 10318 K **Injection Cannula, for positive pressure**
assisted ventilation system, LUER-Lock,
outer diameter 3.5 mm
- 10318 S **Instrument Guide, for suction catheter**
- 10924 D **Adaptor, for respirator**
- 10924 DL **Adaptor, for respirator, long version**

10318 FL

Further tracheoscopes see chapter 10, LARYNGOSCOPY

Full Lumen Operating Tracheo-Bronchoscopes

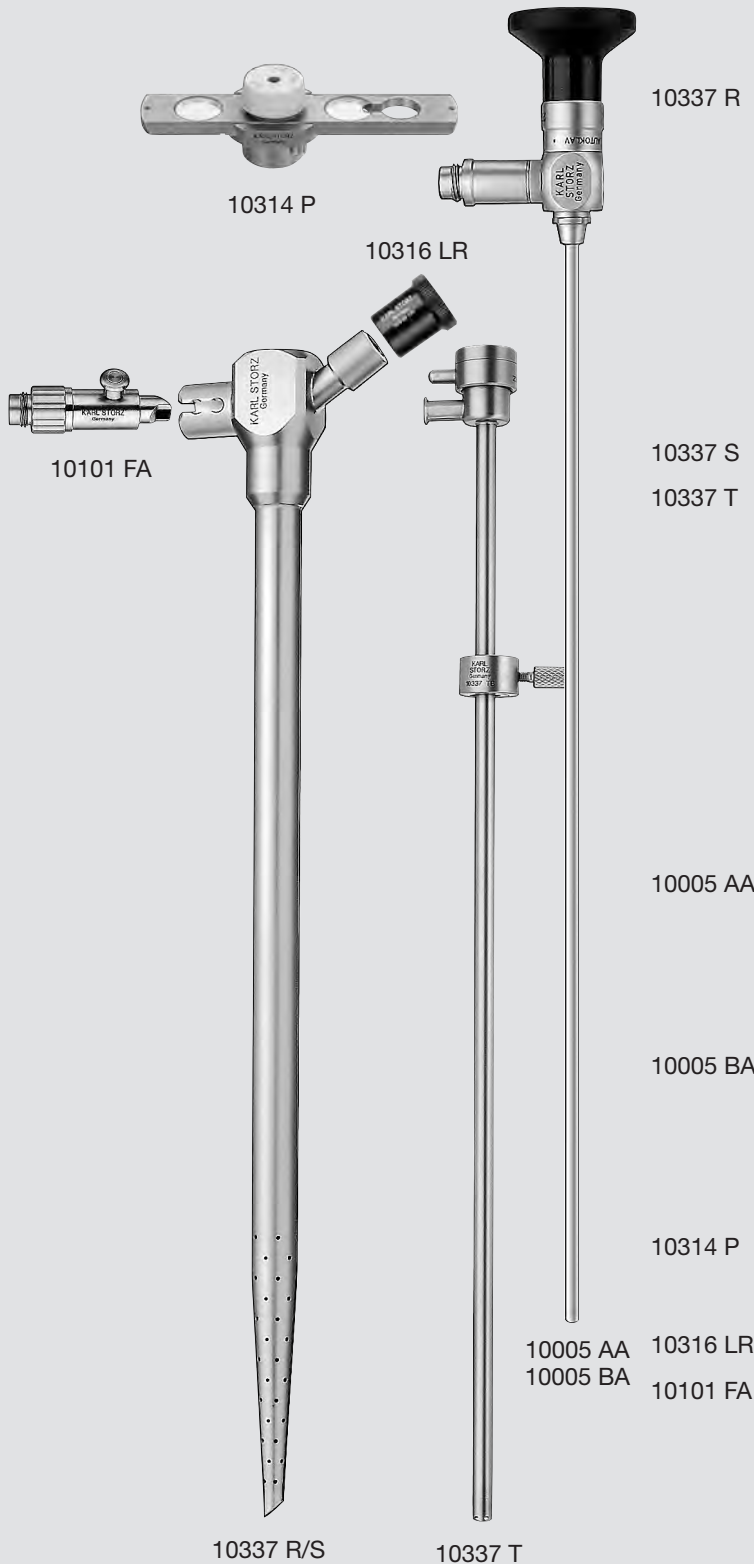
with proximal illumination



- 10318 ER **Full Lumen Operating Bronchoscope**, size 11 mm, length 43 cm, modified for application of stents, distal end with lateral airholes and 45° oblique beak, for use with Prismatic Light Deflector 10101 FA, color code: green
- 10318 GL **Same**, size 14 mm, color code: red
- 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P **FLUVOG Adaptor**, with observation window, cap with rubber seal and with window, adjustable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version

Dilatation Tracheoscopes

GRONINGEN Model



10337 R **Optical Dilatation Tracheoscope**, GRONINGEN model, rigid, with distance markings, for dilation for stenosis and tumors in the upper trachea, distal tapered with lateral ventilation holes, proximal with attachment for oxygen, outer diameter 12 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA, Prismatic Light Deflector 10101 FA, Adaptor for Respirator 10316 LR and adjustable FLUVOG attachment, with window and Rubber Seal 10314 P

10337 S **Same**, outer diameter 8 mm

10337 T **Optical Intubation Tracheoscope**, GRONINGEN model including:

Sheath, for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA

Distance Ring, with fixation screw for length adjustment of the endotracheal tubes

10005 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10005 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

10314 P **FLUVOG Adaptor**, with observation window, cap with rubber seal and with window, adjustable

10316 LR **Adaptor**, for respirator

10101 FA **Prismatic Light Deflector**, **autoclavable**, with connection to fiber optic light cable

Components/Spare Parts see chapter 16

10320 AA

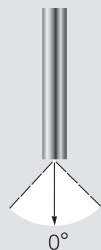


For use with Bronchoscopes 10318, Optical Forceps 10350 and Deflecting Device 10357

10320 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 5.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10320 BA **HOPKINS® Forward-Oblique Telescope 30°**, diameter 5.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

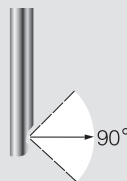
10320 DA **HOPKINS® Lateral Telescope 90°**, diameter 5.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue



10320 AA



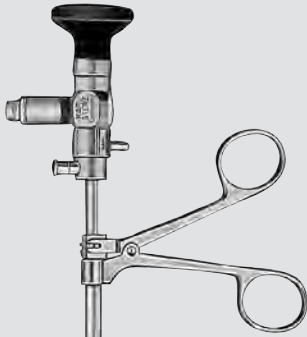
10320 BA



10320 DA

Telescopes for Autofluorescence and Photodynamic Diagnosis (PDD) see chapter 13, FLUORESCENCE

10320 AA/BA



10350 L

For use with HOPKINS® Telescopes 10320 AA/BA and Universal Bronchoscopes 10318 B – CP, size 8.5 to 7.5

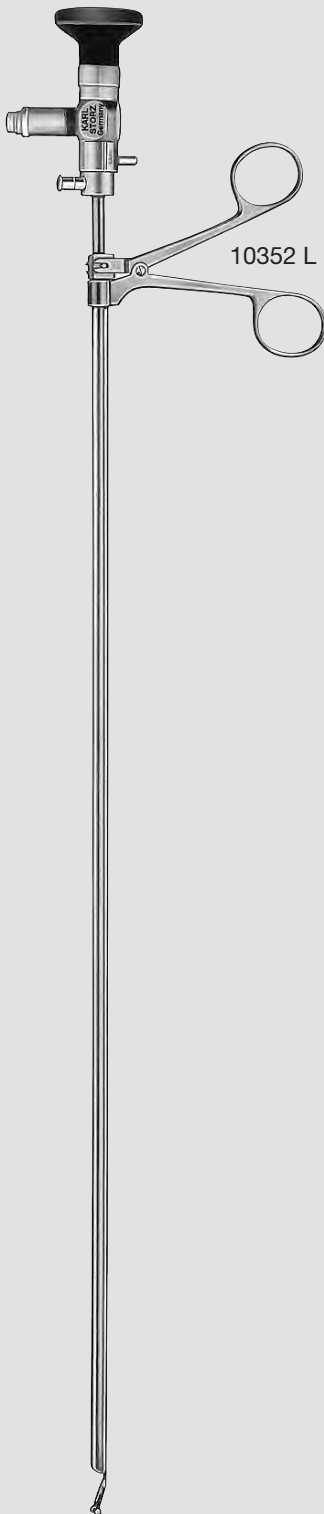
- 10350 HF **Optical Forceps**, alligator, for hard foreign bodies, large jaws, with spring-action handle
- 10350 KF **Optical Forceps**, for peanuts and soft foreign bodies, with spring-action handle
- 10350 L **Optical Forceps**, spoon-shaped, round, for biopsy
- 10350 U **Optical Forceps**, universal, for biopsy, for the removal of foreign bodies and denatured tissue
- 10350 M **Optical Forceps**, large jaws, sharp, for removing large fragments of tissue, for use with HOPKINS® Telescope 10320 AA
- 10350 MS **Optical Forceps**, large jaws, blunt, serrated, for removing large foreign bodies, for use with HOPKINS® Telescope 10320 AA
- 10350 ST **Optical Forceps**, for repositioning and removing stents, one fixed jaw



10350 HF 10350 KF 10350 L 10350 U 10350 M 10350 MS 10350 ST

Optical Forceps

10328 AA



10352 L

For use with HOPKINS® Telescope 10328 AA and Universal Bronchoscopes 10318 B – DP, size 8.5 to 6.5

- 10328 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 4.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10352 H **Optical Forceps**, alligator, for hard foreign bodies
- 10352 KF **Optical Forceps**, for peanuts and soft foreign bodies, with spring-action handle
- 10352 L **Optical Forceps**, spoon-shaped, round, for biopsy
- 10352 U **Optical Forceps**, universal, for biopsy, for removal of foreign bodies and denatured tissue



10352 H



10352 KF



10352 L



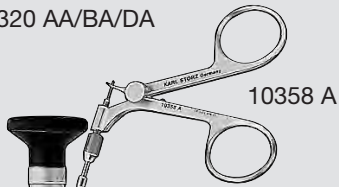
10352 U

Steerable Optical Instruments

for Biopsy

Working length 43 cm

10320 AA/BA/DA



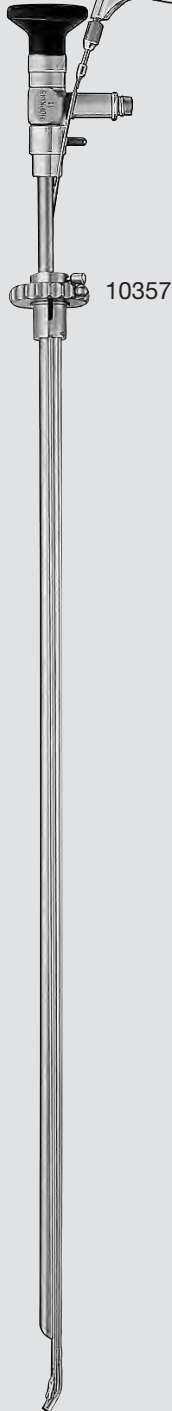
10358 A

For use with Universal Bronchoscopes with distal illumination 10318 B/C, size 8.5 and 7.5 and HOPKINS® Telescopes 10320 AA/BA/DA

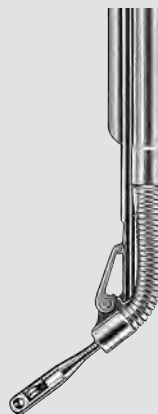
10357 **Deflecting Device**, with telescope guiding tube from proximal to distal end

Instruments for use with Deflecting Devices 10357:

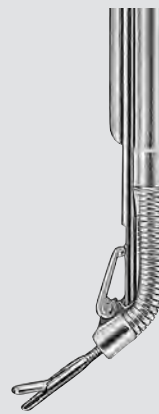
10358 A **Flexible Forceps**, spoon-shaped, for biopsy, for removal of denaturated tissue, working length 60 cm



10357



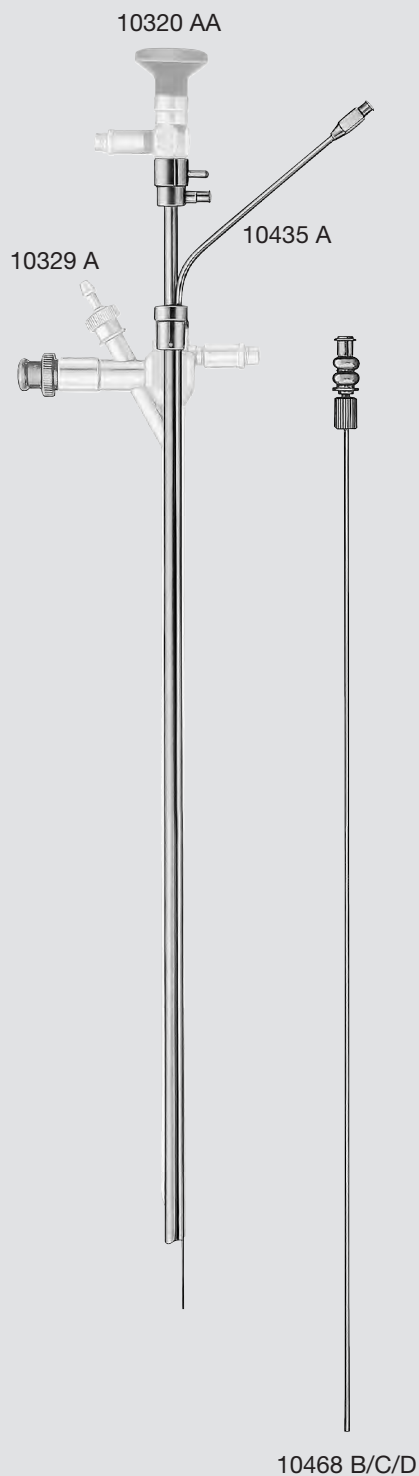
10357
10358 A



10357

Rigid Instrument Guide

with Antifog System,
Accessories



For use with HOPKINS® Telescope 10320 AA and Universal Bronchoscopes 10318 B – D, size 8.5 to 6.5

10329 A **Instrument Guide**, with A. F. (anti-fog) device, can be attached to bronchoscope

Instruments for use with HOPKINS® Telescope 10320 AA and Instrument Guide 10329 A

10435 A **Puncture Needle**, for puncture biopsy, diameter 1.4 mm, working length 48 cm, for histology

10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B

10468 C **Same**, 6 Fr., with Adaptor 10479 C

10468 D **Same**, 4.5 Fr., with Adaptor 10479 F

10478 D **Suction Catheter**, 5 Fr., only, package of 6

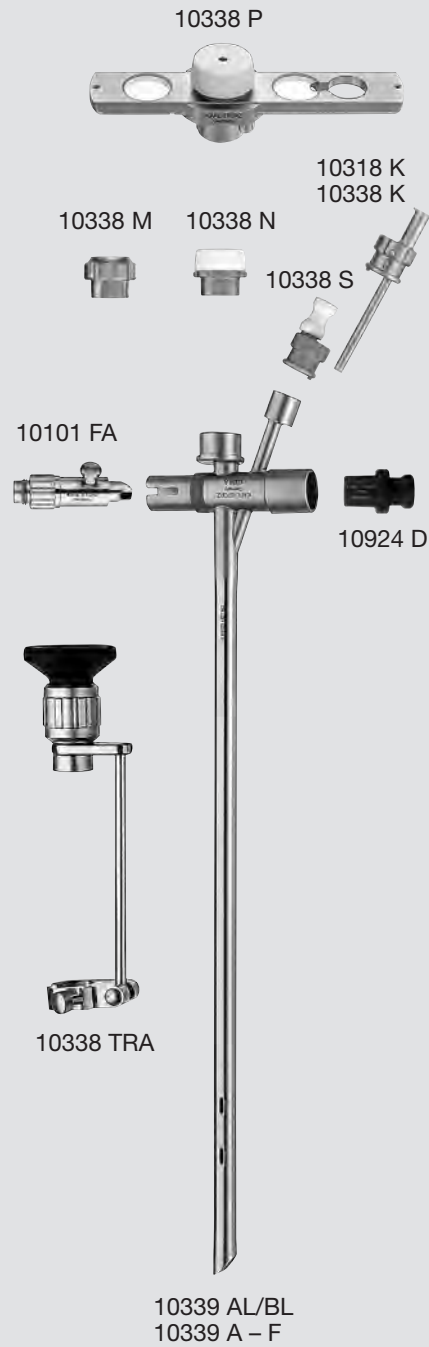
10479 B **Adaptor**, for Suction Catheter 10468 B/10478 B

10479 C **Same**, for Suction Catheter 10468 C/10478 C

10479 F **Same**, for Suction Catheter 10468 D/10478 D

Pediatric Bronchoscopes

with proximal illumination

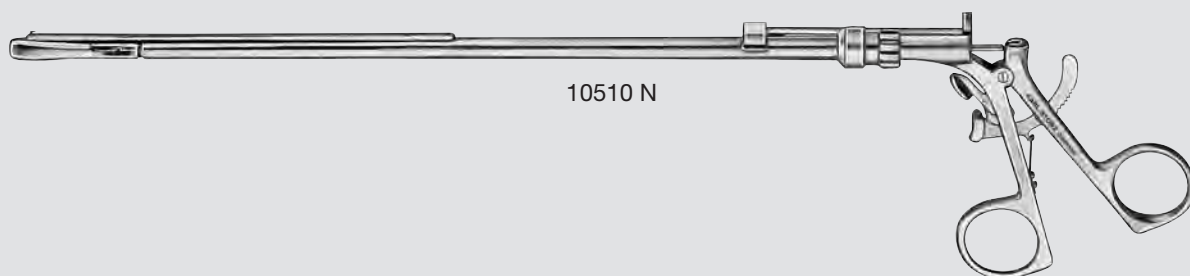


Pediatric Bronchoscopes

with proximal illumination

| | |
|-----------|---|
| 10339 AL | DOESEL-HUZLY Bronchoscope , size 6, length 40 cm |
| 10339 BL | Same , size 5 |
| 10339 A | DOESEL-HUZLY Bronchoscope , size 6, length 30 cm |
| 10339 B | Same , size 5 |
| 10339 BB | Same , size 4.5 |
| 10339 C | Same , size 4 |
| 10339 G | Same , size 3.7 |
| 10339 CD | Same , size 3.5 |
| 10339 EEE | Same , size 3 |
| 10339 CC | DOESEL-HUZLY Bronchoscope , size 4, length 26 cm |
| 10339 GG | Same , size 3.7 |
| 10339 DD | Same , size 3.5 |
| 10339 EE | Same , size 3 |
| 10339 D | DOESEL-HUZLY Bronchoscope , size 3.5, length 18.5 cm |
| 10339 E | Same , size 3 |
| 10339 F | Same , size 2.5 |
| 10101 FA | Prismatic Light Deflector, autoclavable , with connection to fiber optic light cable |
| 10338 M | Glass Window Plug |
| 10338 N | Rubber Telescope Guide , for use with telescopes and optical forceps |
| 10338 P | FLUVOG Adaptor , with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable |
| 10338 S | Guide Piece , for suction catheter, short, bronchoscope for children and infants |
| 10338 TRA | Adjustable Magnifier, autoclavable , swing-away type, with ring adaption |
| 10924 D | Adaptor , for respirator |
| 10924 DL | Adaptor , for respirator, long version |
| 10318 K | Injection Cannula , for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm |
| 10338 K | Injection Cannula , for positive pressure assisted ventilation system, LUER-Lock, outer diameter 2.7 mm, for use with Bronchoscopes 10339 E/EE/F |

FREITAG Stent Forceps



10510 N



10510 N

FREITAG **Stent Forceps**, for the placement of dynamic stents including:

Handle, with ratchet

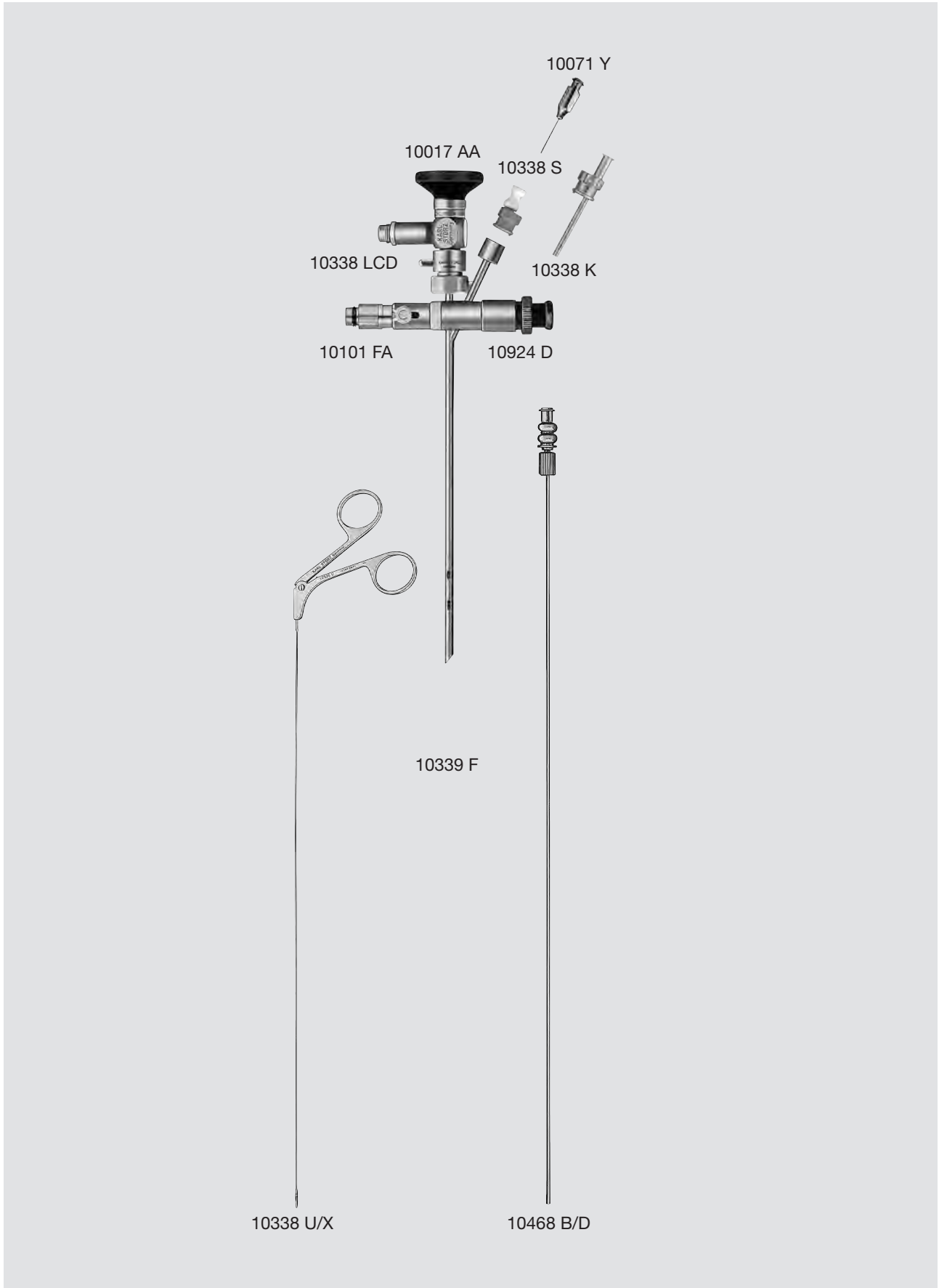
Outer Sheath

Forceps Insert

Pusher

Components/Spare Parts see chapter 16

Instrument Set for Neonates

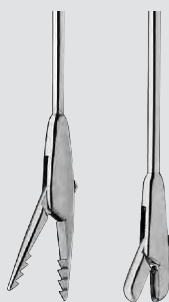


1-999

- 10339 F **DOESEL-HUZLY Bronchoscope**, size 2.5, length 18.5 cm
- 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- 10017 AA **HOPKINS® II Straight Forward Telescope 0°**, diameter 1.9 and 2.1 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10338 LCD **Telescope Bridge**, for fixed position between bronchoscope and telescope
- 10071 Y **Injection Cannula**
- 10338 S **Guide Piece**, for suction catheter, short, bronchoscope for children and infants
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version
- 10338 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 2.7 mm, for use with Bronchoscopes 10339 E/EE/F

For use with working channel of Bronchoscopes 10339 A/B/BB/C – G, under control of HOPKINS® Telescopes 10324 AA/10020 ATA/10018 AA/10017 AA

- 10338 U **Forceps**, alligator, spoon-shaped, single action jaws, semiflexible, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10338 X **Forceps**, spoon-shaped, for biopsy, single action jaws, semiflexible, width of jaws 1.2 mm, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B
- 10468 D **Suction Catheter**, 4.5 Fr., with Adaptor 10479 F



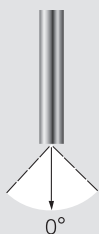
10338 U 10338 X



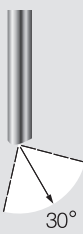
10338 LCD



10338 R/RK/RL



10018 AA
10020 ATA
10005 AA
10324 AA
10023 ABA



10324 BA

For use with 18.5 cm DOESEL-HUZLY Bronchoscopes 10339 D/E, telescope **can be fixed** in the bronchoscope when using Telescope Bridge 10338 LCD

10018 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

For use with 30 cm DOESEL-HUZLY Bronchoscopes 10339 A/B/BB/C/CD/G, telescope **can be fixed** in the bronchoscope when using Telescope Bridge 10338 LCD

10020 ATA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10005 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

For use with 30 cm DOESEL-HUZLY Bronchoscopes 10339 A/B/BB/C/CD/G, telescope **adjustable** in the bronchoscope when using Rubber Telescope Guide 10338 N

10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10324 BA **HOPKINS® II Forward-Oblique Telescope 30°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

For use with 40 cm DOESEL-HUZLY Bronchoscopes 10339 AL/BL, telescope **adjustable** in the bronchoscope when using Rubber Telescope Guide 10338 N

10023 ABA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.8 mm, length 44 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

For use with Telescopes 10017/10018/10020/10005 AA

10338 LCD **Telescope Bridge**, for fixed position between bronchoscope and telescope

For use with Telescope 10324 AA

10338 RK **Telescope Bridge**, for fixed position between HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A/B/BB/C/CD/EEE/G

10338 RL **Telescope Bridge**, for fixed position between HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 CC/DD/EE/GG

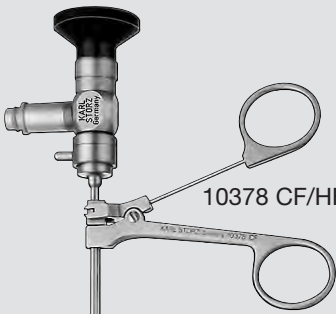
For use with Telescope 10005 AA

10338 R **Telescope Bridge**, for fixed position between HOPKINS® II Telescope 10005 AA and Bronchoscopes 10339 CC/GG

Optical Forceps and Scissors

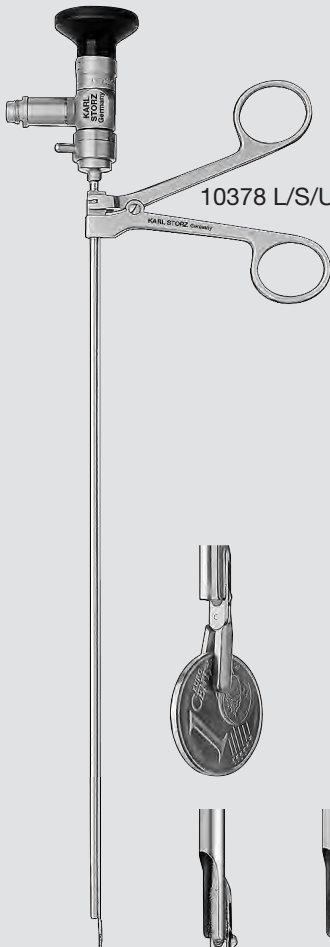
for Pediatric Bronchoscopes size 6 – 3.5, length 30 cm – 18.5 cm

10324 AA



10378 CF/HF/KF/KSF

10324 AA



10378 L/S/U/M

For use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – CD

- 10378 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10378 KSF **Optical Forceps**, VANCOUVER model, for grasping peanut fragments and soft foreign bodies, with spring-action handle
- 10378 L **Optical Forceps**, spoon-shaped, for biopsy
- 10378 S **Optical Scissors**
- 10378 U **Optical Forceps**, universal, for biopsy and foreign bodies removal
- 10378 M **Optical Forceps**, spoon-shaped, oval, for biopsy, large model

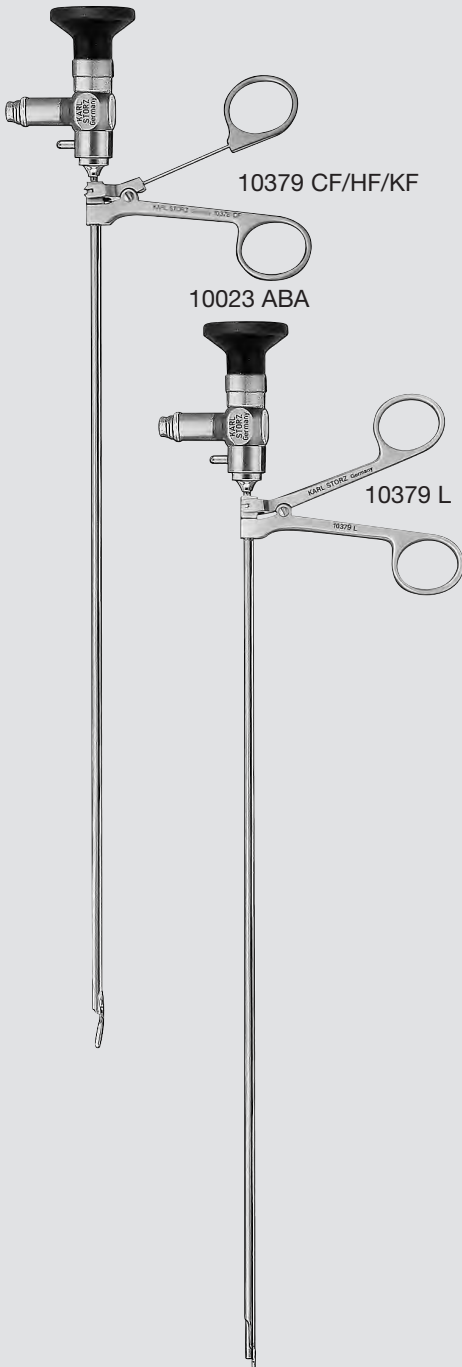


10378 CF 10378 HF 10378 KF 10378 KSF 10378 L 10378 S 10378 U 10378 M

Optical Forceps

for Pediatric Bronchoscopes size 6 and 5, length 40 cm

10023 ABA



For use with HOPKINS® Telescope 10023 ABA and Bronchoscopes 10339 A – CD

- 10379 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10379 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10379 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10379 L **Optical Forceps**, spoon-shaped, for biopsy



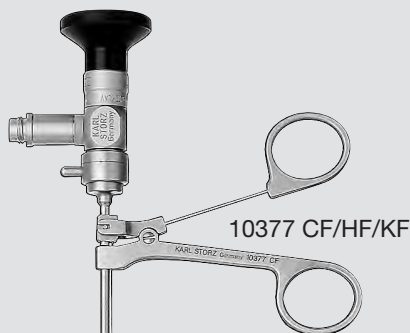
10379 CF 10379 HF 10379 KF 10379 L

5-043

Optical Forceps

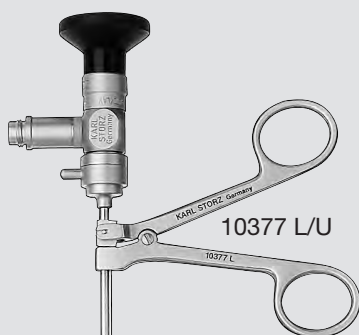
for Pediatric Bronchoscopes size 4 – 3.5, length 26 cm – 18.5 cm

10020 ATA



10377 CF/HF/KF

10020 ATA



10377 L/U

For use with HOPKINS® Telescope 10020 ATA and Bronchoscopes 10339 CC/GG/DD/D

- 10377 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10377 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10377 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10377 L **Optical Forceps**, spoon-shaped, for biopsy
- 10377 U **Optical Forceps**, universal, for biopsy and foreign bodies removal



10377 CF

10377 HF

10377 KF

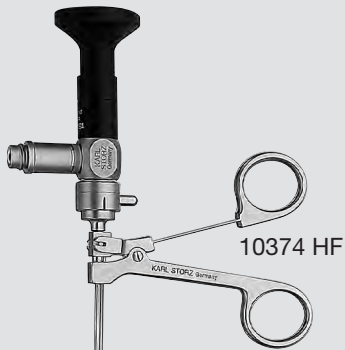
10377 L

10377 U

Optical Forceps

for Pediatric Bronchoscopes size 4 – 2.5, length 26 cm – 18.5 cm

10030 AA



For use with Bronchoscopes 10339 CC/GG/DD/EE/D/E/F

10030 AA **Miniature Straight Forward Telescope 0°**, semirigid, autoclavable, fiber optic light transmission incorporated
Direction of view: 0°
Angle of view: 90°
Working length: 30.6 cm
Outer diameter: 1.3 mm
Color code: green

10374 HF **Optical Forceps**, with alligator jaws, for grasping hard foreign bodies, with spring-action handle

10374 L **Optical Forceps**, spoon-shaped, for biopsy

10030 AA



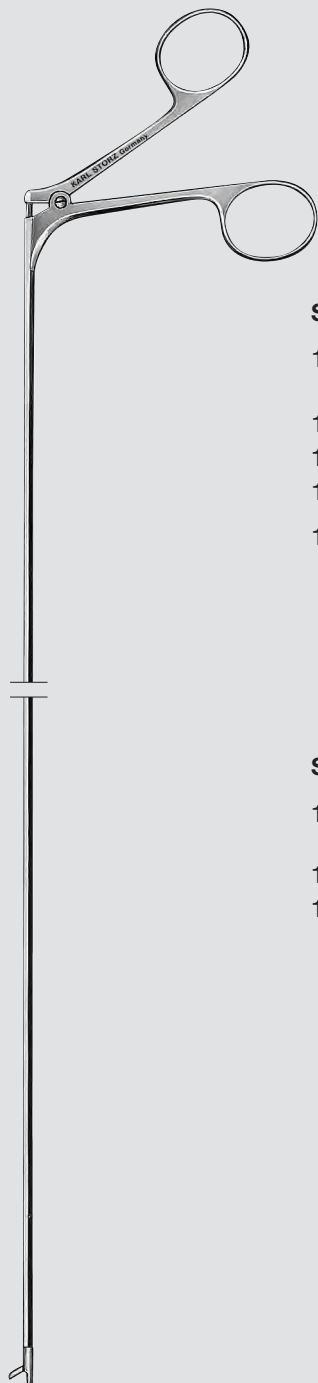
10374 HF



10374 L

Forceps and Scissors for Bronchoscopy

single action jaws



Sheath diameter 2.5 mm, working length 50 cm

- 10366 H **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 50 cm
- 10366 K **Same**, for peanuts and soft foreign bodies
- 10366 L **Same**, spoon-shaped, round, for biopsy
- 10366 U **Same**, universal, for biopsy and foreign bodies removal
- 10366 S **Scissors**, straight, for trituration of bone fragments

Sheath diameter 2.5 mm, working length 35 cm

- 10367 H **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 35 cm
- 10367 K **Same**, for peanuts and soft foreign bodies
- 10367 L **Same**, spoon-shaped, round, for biopsy



10366 H
10367 H



10366 K
10367 K



10366 L
10367 L



10366 U



10366 S

Forceps for Bronchoscopy

double action jaws



Sheath diameter 2.5 mm, working length 50 cm

- 10370 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2.5 mm, working length 50 cm
- 10370 J **Same**, pointed, serrated, for coins and flat foreign bodies
- 10370 K **Same**, for peanuts and soft foreign bodies
- 10370 L **Same**, spoon-shaped, round, for biopsy
- 10370 P **Same**, with oval cupped jaws, fenestrated, for biopsy and foreign bodies
- 10370 U **Same**, universal, for biopsy and foreign bodies removal



10370 H



10370 J



10370 K



10370 L



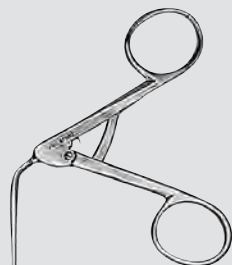
10370 P



10370 U

Forceps for Bronchoscopy

double action jaws



Sheath diameter 2 mm, working length 45 cm

- 10371 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
- 10371 KL **Same**, for peanuts and soft foreign bodies
- 10371 LL **Same**, spoon-shaped, round, for biopsy
- 10371 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 2 mm, working length 35 cm

- 10371 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 35 cm
- 10371 J **Same**, pointed, serrated, for coins and flat foreign bodies
- 10371 K **Same**, for peanuts and soft foreign bodies
- 10371 L **Same**, spoon-shaped, round, for biopsy
- 10371 P **Same**, spoon-shaped, oval, fenestrated, for biopsy and foreign bodies removal
- 10371 U **Same**, universal, for biopsy and foreign bodies removal



10371 HL
10371 H



10371 J



10371 KL
10371 K



10371 LL
10371 L



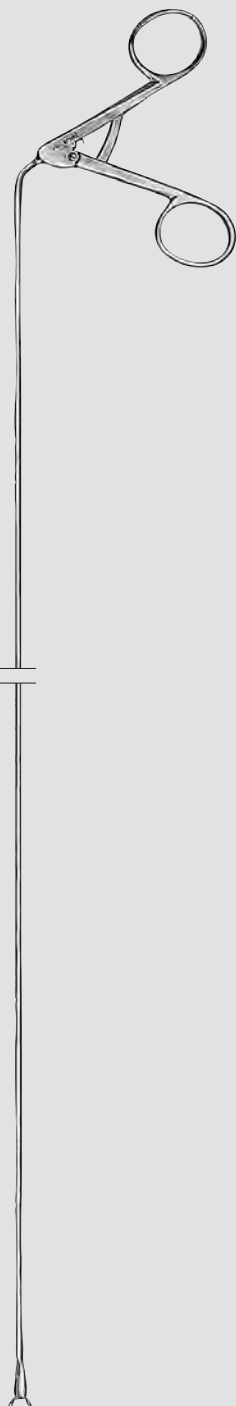
10371 P



10371 UL
10371 U

Forceps for Bronchoscopy

double action jaws



Sheath diameter 1.5 mm, working length 35 cm

- 10372 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm
- 10372 JL **Same**, pointed, serrated, for coins and flat foreign bodies
- 10372 KL **Same**, for peanuts and soft foreign bodies
- 10372 LL **Same**, spoon-shaped, round, for biopsy
- 10372 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 1.5 mm, working length 25 cm

- 10372 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 25 cm
- 10372 K **Same**, for peanuts and soft foreign bodies



10372 HL
10372 H



10372 JL



10372 KL
10372 K



10372 LL



10372 UL

Accessories for Bronchoscopy

Suction Tubes, Cotton Carriers, Sponge Holders and Catheters

10380 A - H

10383 A - F

10381 A - B

10382 A - B

10390 AN/BN

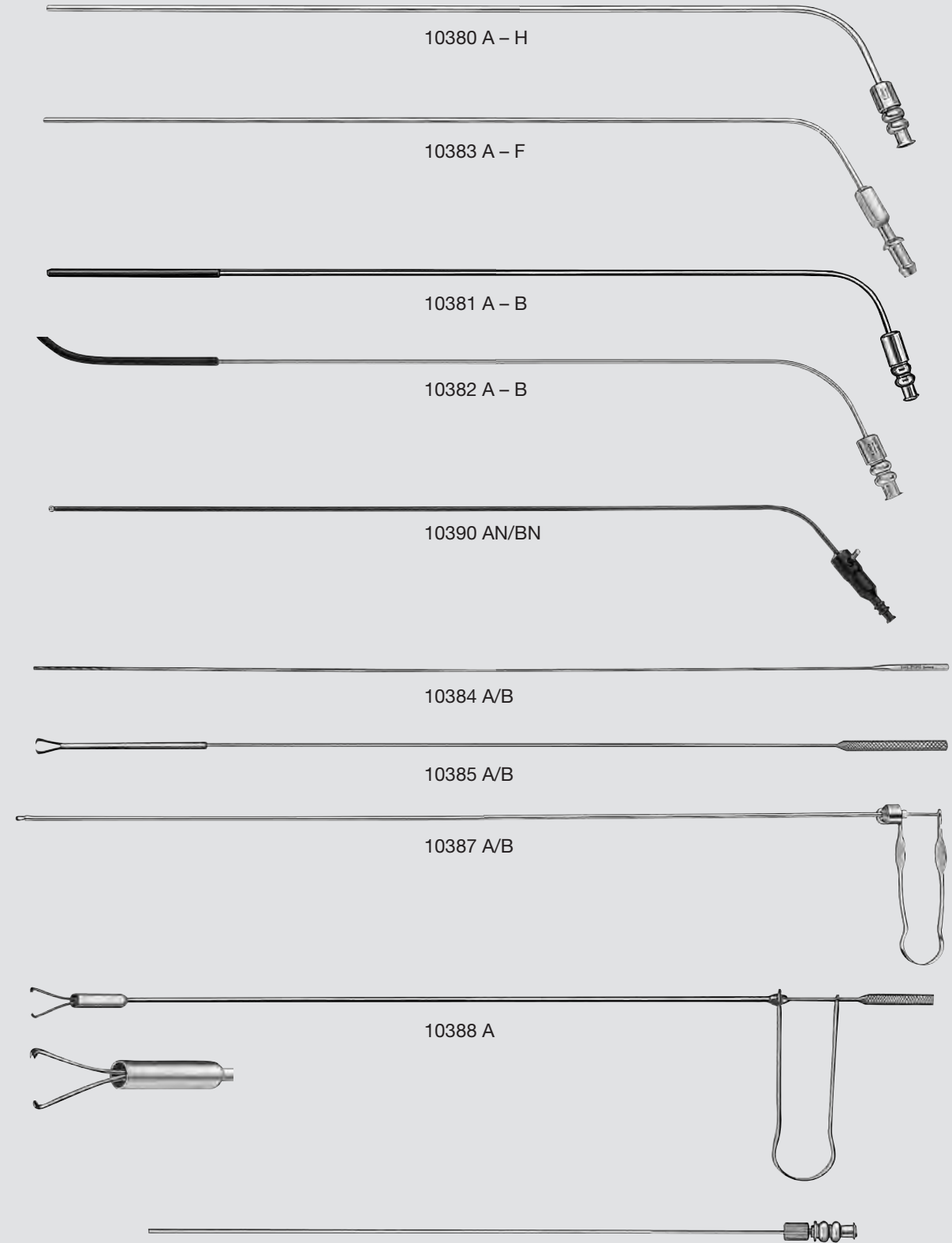
10384 A/B

10385 A/B

10387 A/B

10388 A

10468 B/C/D



Description of instruments see page 663

Accessories for Bronchoscopy

Suction Tubes, Cotton Carriers, Sponge Holders and Catheters

Working length 50 cm

| | |
|----------|---|
| 10380 A | Suction Tube , diameter 4 mm |
| 10380 D | Same , diameter 2.5 mm |
| 10380 H | Same , diameter 5 mm |
| 10383 A | Suction Tube , with cut-off hole, diameter 4 mm |
| 10381 A | Suction Tube , with rubber tip, straight, diameter 4 mm |
| 10382 A | Same , curved |
| 10390 AN | Coagulating Suction Tube , insulated, with connector pin for unipolar coagulation, diameter 4 mm |
| 10384 A | Cotton Applicator |
| 10385 A | Sponge Holder |
| 10387 A | Sponge Holder , with spring handle |
| 10388 A | Sponge Holder , for sterile smears |

Working length 35 cm

| | |
|----------|---|
| 10380 AK | Suction Tube , diameter 4 mm |
| 10380 B | Same , diameter 3 mm |
| 10380 CB | Same , diameter 2 mm |
| 10383 B | Suction Tube , with cut-off hole, diameter 3 mm |
| 10383 BL | Same , diameter 5.5 mm |
| 10381 B | Suction Tube , with rubber tip, straight, diameter 2 mm, working length 35 cm |
| 10382 B | Same , curved |
| 10390 BN | Coagulation Suction Tube , insulated, with connector pin for unipolar coagulation, diameter 3 mm |
| 10384 B | Cotton Applicator |
| 10385 B | Sponge Holder |
| 10387 B | Sponge Holder , with spring handle |

Working length 30 cm

| | |
|----------|--|
| 10383 DD | Suction Tube , with cut-off hole, diameter 2 mm |
| 10383 F | Same , diameter 3 mm |

Working length 25 cm

| | |
|----------|--|
| 10380 C | Suction Tube , diameter 2 mm |
| 10383 C | Suction Tube , with cut-off hole, diameter 2 mm |
| 10383 CC | Same , diameter 1 mm |
| 10383 D | Same , diameter 3 mm |
| 10383 E | Same , diameter 4 mm |

For use through the working channel under control of HOPKINS® telescope:

| | |
|---------|---|
| 10468 B | Suction Catheter , 7.5 Fr., with Adaptor 10479 B |
| 10468 C | Same , 6 Fr., with Adaptor 10479 C |
| 10468 D | Same , 4.5 Fr., with Adaptor 10479 F |

Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Instruments for aspiration, irrigation and puncture biopsy



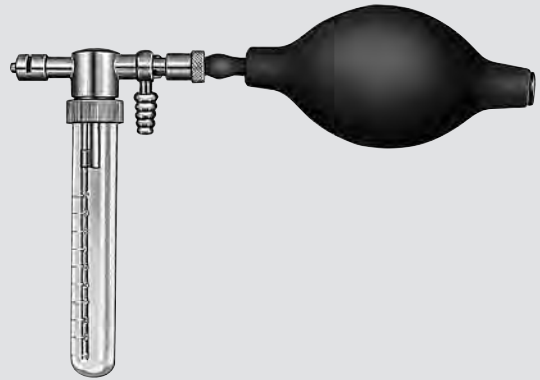
10432 ED



10432 N/T



10434 V



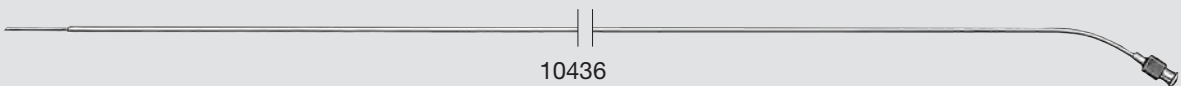
10434

- 10432 N **Aspirator**, for collecting secretions, with cut-off hole, with Spare Glass 10432 E, can be connected to suction tubes or suction catheters
- 10432 T **Same**, without cut-off hole
- 10432 ED **Collection Device**, plastic, for single use, with lid, package of 100, for use with HUZLY Aspirator and Bronchus Irrigator 10434 and Intermediate Ring 10434 Z
- 10434 **HUZLY Aspirator and Bronchus Irrigator**, with Graduated Container 10455 A and Rubber Bulb 437000. After switching manifold from "Irrigation" to "Suction", the injected irrigation fluid is immediately withdrawn again together with the bronchial secretion



10434 A/B

- 10434 A **Suction Tube**, diameter 4 mm, length 50 cm, for use with HUZLY Aspirator and Bronchus Irrigator 10434
- 10434 B **Same**, diameter 3 mm, length 35 cm



10436

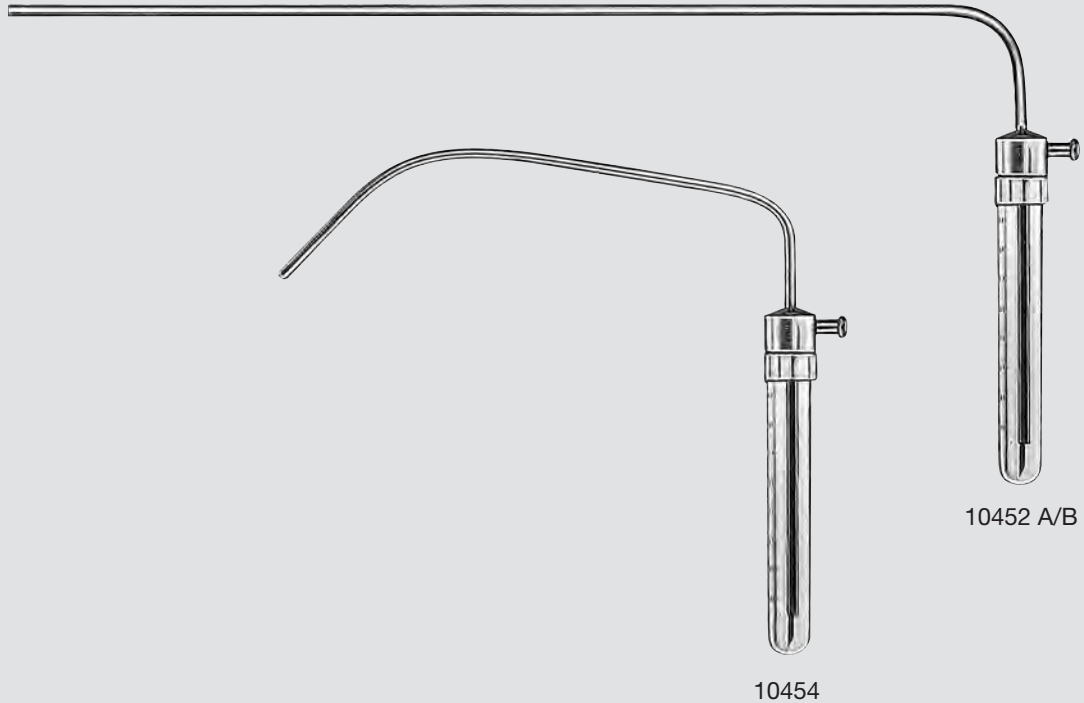


- 10436 **Aspiration Biopsy Needle**, for transbronchial biopsy, distal straight, diameter 1.6 mm, working length 47 cm
- 10438 **Same**, distally angled

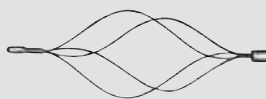
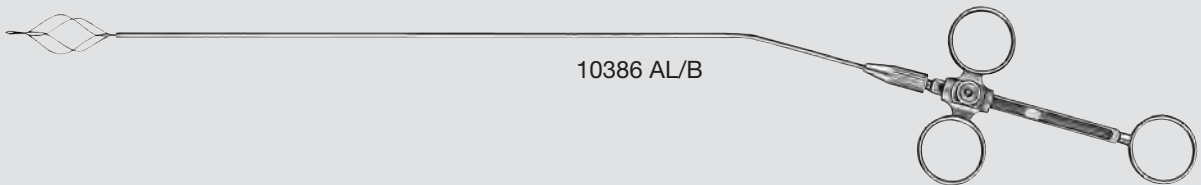
Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Atomizers, Foreign Body Baskets and Brushes



- 10452 A **Bronchial Atomizer**, with Graduated Container 10455 A and Rubber Bulb 437000, length 50 cm
- 10452 B **Same**, length 40 cm
- 10454 **Laryngeal Atomizer**, with Graduated Container 10455 A and Rubber Bulb 40924 H
- 10455 A **Graduated Container, autoclavable**, for HUZLY Aspirator and Bronchus Irrigator 10434, Bronchial Atomizer 10452 A/B and Rubber Bulb 10454



- 10386 AL **Foreign Body Basket**, with ring handle, working length 55 cm
- 10386 B **Same**, working length 35 cm

3-11

Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Antifog Solution



15006 B



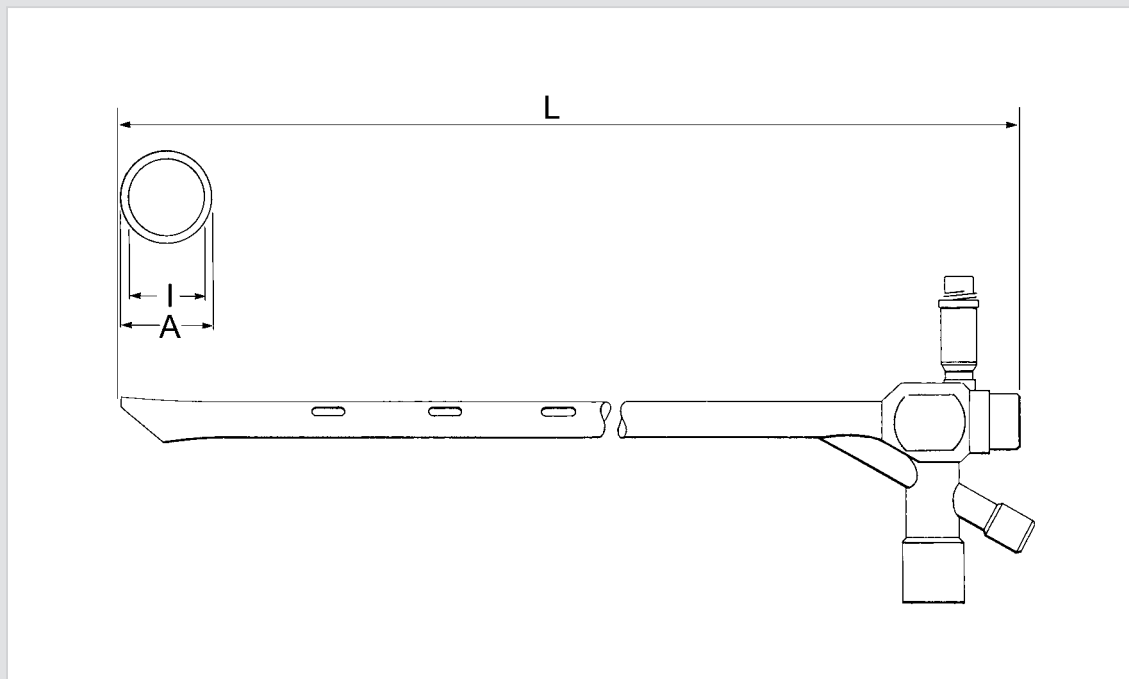
15006 C



15006 D

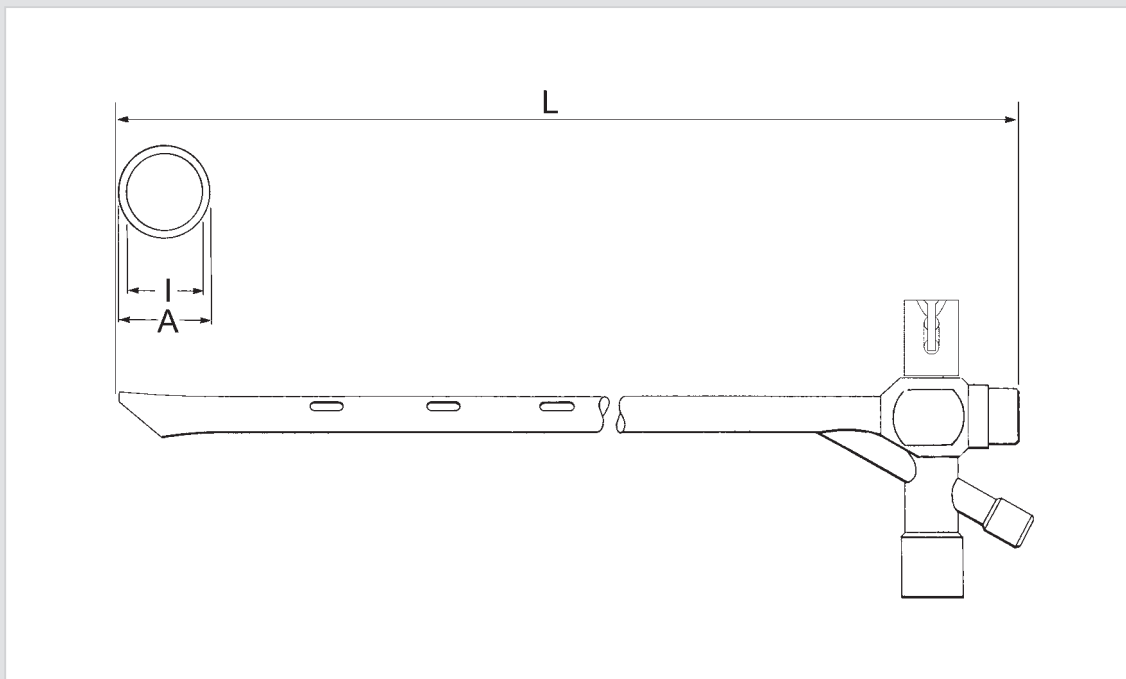
- 15006 B “ULTRA STOP” **Antifog Solution**, 25 ml,
pipette bottle
- 15006 C “ULTRA STOP” **Antifog Solution**, 30 ml,
sterile, pierce bottle
- 15006 D “ULTRA STOP” **Antifog Solution**, 15 ml,
atomizer bottle

Dimensions of Universal Bronchoscopes



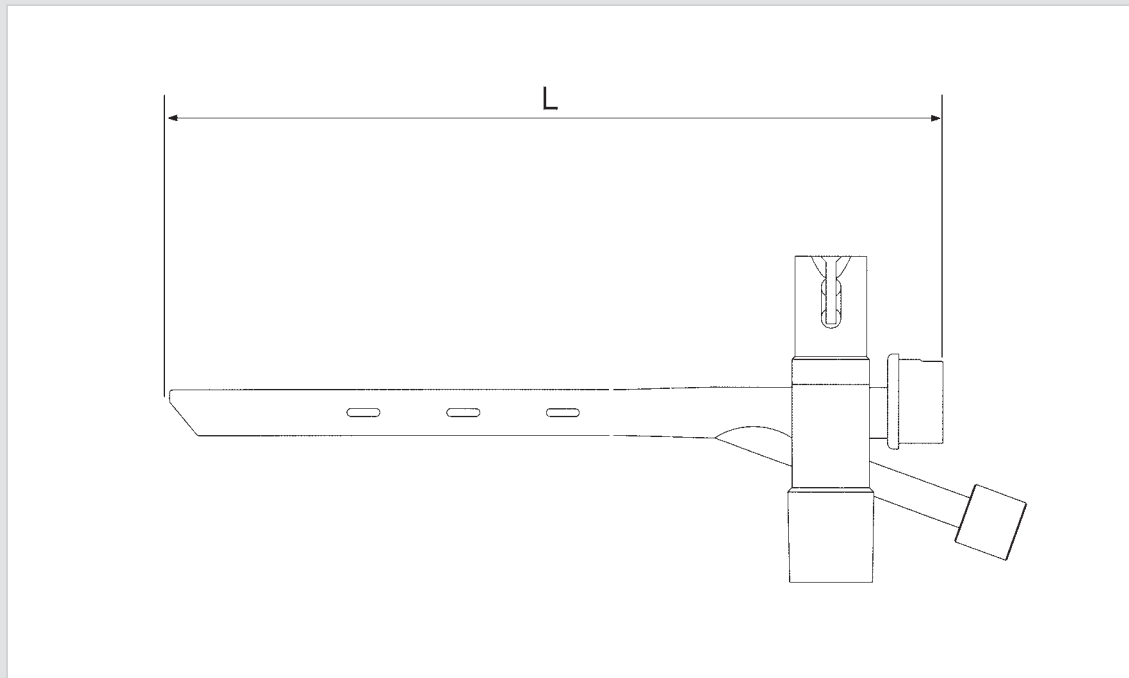
| Art. No. | Size | Total Length - L - | Inner Diameter - I - | Outer Diameter - A - | Telescopes | Optical Forceps |
|---------------------|------|-----------------------|-------------------------|-------------------------|------------|--|
| 10318 B | 8.5 | 43 cm | 10 mm | 11 mm | 10320 | 10350 HF, 10350 KF, 10350 L, 10350 ST, 10350 U, with 10320 AA, 10320 BA |
| 10318 BP | 8.5 | 43 cm | 10 mm | 11 mm | 10320 | 10350 HF, 10350 KF, 10350 L, 10350 M, 10350 MS, 10350 ST, 10350 U, with 10320 AA, 10320 BA |
| 10318 C 10318 CP | 7.5 | 43 cm | 9 mm | 10 mm | 10320 | 10350 HF, 10350 KF, 10350 L, 10350 ST, 10350 U, with 10320 AA, 10320 BA |
| 10318 D 10318 DP | 6.5 | 43 cm | 8 mm | 9 mm | 10320 | 10352 H, 10352 L, 10352 KF, 10352 U, with 10328 AA, 10328 BA |

Dimensions of Universal Bronchoscopes



| Art. No. | Size | Total Length - L - | Inner Diameter - I - | Outer Diameter - A - | Telescopes | Optical Forceps |
|----------|------|-----------------------|-------------------------|-------------------------|------------|--|
| 10318 G | 14 | 33 cm | 13 mm | 14 mm | 10320 | 10350 HF, 10350 KF, 10350 L, 10350 M, 10350 MS, 10350 ST, 10350 U, with 10320 AA, 10320 BA |
| 10318 GL | 14 | 43 cm | 13 mm | 14 mm | 10320 | |
| 10318 ER | 11 | 43 cm | 10 mm | 11 mm | 10320 | |

DOESEL-HUZLY
Dimensions of Pediatric Bronchoscopes
 with proximal illumination



| Art. No. | Size | Total Length - L - | Telescopes | Optical Forceps |
|--|----------------------------------|--|----------------------------------|---|
| 10339 AL 10339 BL | 6 5 | 40 cm 40 cm | 10023 10023 | 10379 CF, 10379 HF, 10379 KF, 10379 L, with 10023 ABA |
| 10339 A 10339 B 10339 BB 10339 C 10339 G 10339 CD | 6 5 4.5 4 3.7 3.5 | 30 cm 30 cm 30 cm 30 cm 30 cm 30 cm | 10324 10020 | 10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 M, 10378 S, 10378 U, 10378 X, with 10324 AA |
| 10339 EEE | 3 | 30 cm | 10324 10020 | - |
| 10339 CC 10339 GG 10339 DD | 4 3.7 3.5 | 26 cm 26 cm 26 cm | 10324 10020 | 10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA |
| 10339 EE | 3 | 26 cm | 10324 10020 | 10374 L, 10374 HF |
| 10339 D | 3.5 | 18.5 cm | 10018 10020 | 10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA |
| 10339 E | 3 | 18.5 cm | 10018 10020 10030 | 10374 L, 10374 HF, with 10030 AA |
| 10339 F | 2.5 | 18.5 cm | 10017 10018 10020 10030 | 10374 L, 10374 HF, with 10030 AA |

11-98z



FLUORESCENCE

Intravenously administered dyes that strictly remain within the vascular system have been in increasing use in the past several decades to enable a better assessment of normal and pathological states of various tissues or organs in living organisms. Indocyanine green (ICG) is an important representative of this group and features much better pharmacokinetic properties than conventional markers such as fluorescein; anaphylactic reactions or other intolerance reactions are very rarely observed with ICG. The dye, which is rapidly eliminated via the liver without being metabolized, is commonly used in choroidal circulation diagnostics, but it has also been approved for liver function diagnostics and for assessing various cardiovascular and microvascular situations. The promising results of preliminary animal testing suggested that in vivo ICG angiography may also be suitable for non-invasive assessment of the post-operative perfusion status of free-flap grafts¹.

With the novel D-LIGHT P system from KARL STORZ, the applications of ICG angiography have now been expanded to include all endoscopically accessible body regions and a multitude of conceivable new indications. As an example, we will discuss in more detail the ICG fluorescence angiography for the assessment of free-flap grafts in the upper aerodigestive tract. This application has already shown promising results in a feasibility study conducted at our facility. Other promising application areas include the diagnostics of highly vascularized neoplasms in the gastrointestinal tract, the verification of normal blood flow after neurosurgical closure of aneurysms, and the intraoperative perfusion assessment in colorectal anastomoses.

The collected data were analyzed on a PC online and offline, and the results were compared with clinical results. No partial or complete graft loss occurred. Two grafts with limited perfusion caused by arterial anastomotic insufficiency were salvaged by surgical revision. The endoscopic ICG angiographies were simple to perform and easily tolerated. The grafts exhibited delayed accumulation of the dye, but in the end, accumulation was equal in the grafts and in the surroundings. The two grafts that were initially hypoperfused exhibited relative fluorescence peaks (graft compared to surroundings) of 33% and 37%, respectively, but these values were $\geq 64\%$ in all further examinations. On the basis of the collected data, we concluded that endoscopic ICG angiographies generally seem useful in patients with free-flap tissue transfer into the upper aerodigestive tract, since this technique is low in risk, easy to perform, and immediately supplies meaningful information on the perfusion status of the tissue. We concluded that the procedure can be a welcome supplement to the other described screening procedures, particularly in difficult situations (unclear Doppler signals, hard-to-see grafts, and hard-to-assess skin color).

*Priv.-Doz. Dr. C. S. BETZ
Klinik und Poliklinik für Hals-, Nasen- und Ohrenheilkunde
Klinikum der Universität München, Campus Großhadern
Marchioninstr. 15
81377 München, Germany*

As an example, we will now describe one of the above indications in more detail. A feasibility study conducted at the ENT department of the LMU University Medical Center was designed to clarify whether after the intravenous administration of ICG, endoscopic fluorescence angiography is suitable for the early detection of reduced tissue perfusion in free-flap tissue grafts in the upper aerodigestive tract that were transferred by microvascular anastomosis. The study is relevant since there

are currently no routine procedures for the objective assessment of perfusion in free tissue flaps, despite the fact that an unidentified postoperative disturbance in perfusion may lead to partial or even complete loss of the graft. The study included 25 patients with such tissue grafts. Three endoscopic ICG angiographies were performed in each patient (intraoperatively, 24 hours after surgery, and 72 hours after surgery, see Figs. 1 – 4).

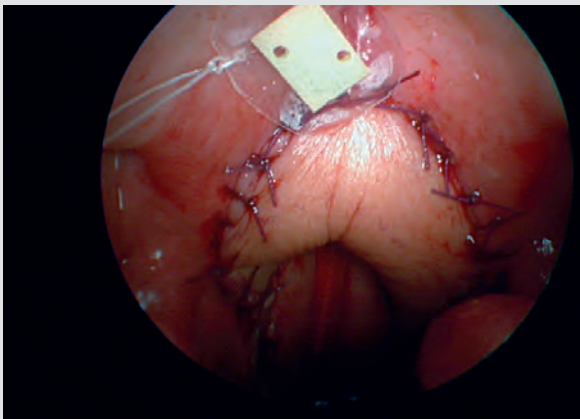


Fig. 1: White light view

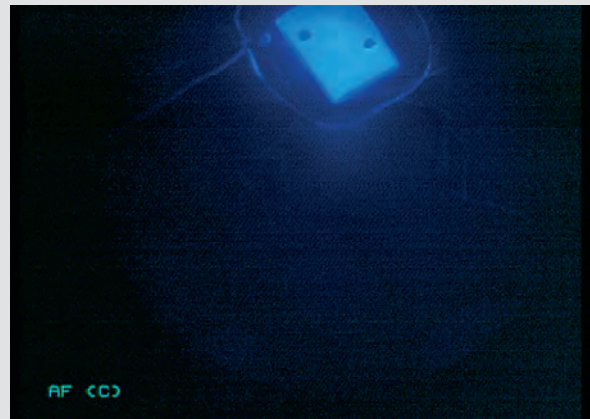


Fig. 2: Endoscopic ICG perfusion evaluation – intraoperative

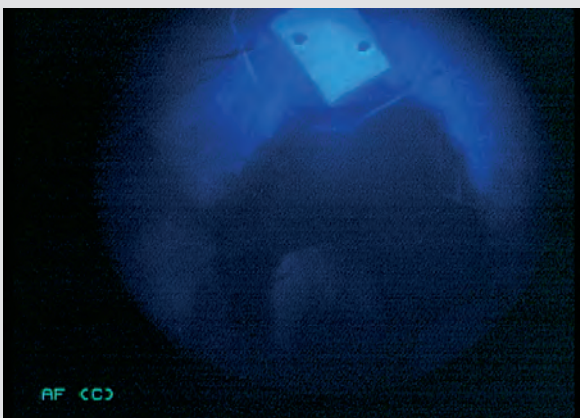


Fig. 3: Endoscopic ICG perfusion evaluation – 24 h postoperative

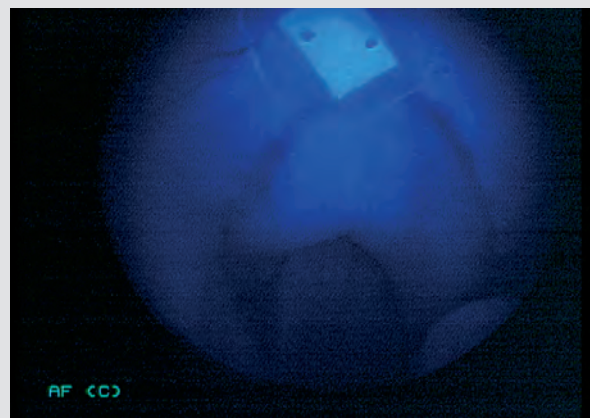


Fig. 4: Endoscopic ICG perfusion evaluation – 72 h postoperative

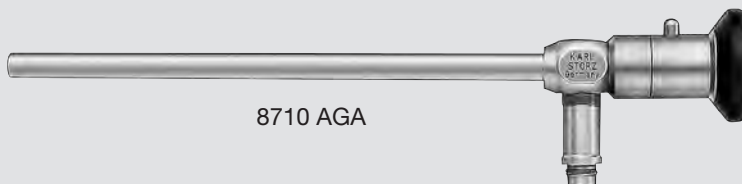
ICG Angiography ^{NEW}

for use with TRICAM® SL II and D-LIGHT P

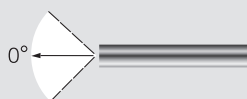
With the D-LIGHT P system as well as other HOPKINS® endoscopes developed specifically for angiography, KARL STORZ offers a compact system for both perfusion assessment and autofluorescence diagnosis. Switching between filters for autofluorescence diagnosis and ICG observation is possible by simply

changing the filters in the telescope eyepiece. In combination with the TRICAM® SL II camera control unit, the new system offers outstanding image sharpness as well as detailed representation of the viewed tissue. Visualization of perfusion in ICG modes offers the user new possibilities in surgical anastomosis.



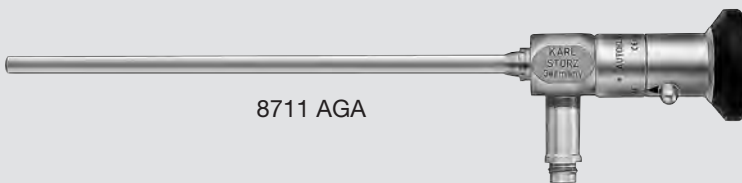


8710 AGA

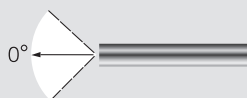


8710 AGA

HOPKINS® Straight Forward Telescope 0°, for perfusion assessment, autofluorescence and white light diagnosis, diameter 5.8 mm, length 19 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8711 AGA



8711 AGA

HOPKINS® Straight Forward Telescope 0°, enlarged view, for perfusion assessment, autofluorescence and white light diagnosis, diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

Fluid Light Cable



495 FO

495 FO
495 FP

Fluid Light Cable, diameter 3 mm, length 180 cm
Same, length 250 cm

TRICAM® SL II

Camera Control Unit SCB



20 2230 11U1 TRICAM® SL II Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable**, for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin



20 2210 37 / 20 2211 37

20 2210 37 PAL TRICAM® PDD

20 2211 37 NTSC Three-Chip Camera Head

color systems **PAL/NTSC**, soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, $f = 25 - 50$ mm (2x), 2 freely programmable camera head buttons, **for photodynamic early diagnosis**

D-LIGHT P System SCB ^{NEW}

Special Features:

- Special light source for perfusion diagnosis of tissue and organs with indocyanine green (ICG) or for photodynamic early diagnosis in bronchoscopy
- Facility for switching between white light and fluorescence mode after ICG injection
- With KARL STORZ Communication Bus (KARL STORZ-SCB)



NEW 20 1337 01-1 **Cold Light Fountain D-LIGHT P SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Specifications::

| | | | |
|-------------------------------|---|-------------------------|--|
| Lamp type | XENON 15 V, 300 Watt | Dimensions w x h x d | 305 x 165 x 336 mm |
| Color temperature | ca. 6000 K | Weight | 9.7 kg |
| Light outlets | 1 | Certified to: | IEC 601-1 and UL 544, protection class 1/CF |
| Light intensity adjustment | continuously adjustable either via a membrane keyboard or KARL STORZ Communication Bus Signal | | |

Spare Lamps and Spare Lamp Modules for D-LIGHT Systems and Components/Spare Parts
see catalog TELEPRESENCE

Autofluorescence Endoscopy System

for the Diagnosis and Early Detection of Laryngeal Carcinoma

Autofluorescence endoscopy is a sophisticated, non-invasive method for the detection of precancerous and cancerous changes of the epithelium. It is already used successfully in the early detection and follow-up of bronchial as well as of urothelial cancer [Lam et al. 1993, Nakhosteen et al. 1997, Häussinger et al. 1999]. Autofluorescence endoscopy can also be applied in the diagnosis of tumors of the upper aerodigestive tract. The method is based on the excitation of tissue-specific fluorescence (autofluorescence) of the mucosa by short-wave blue light of the visible spectrum (375-440 nm). The causes for changes of the fluorescence characteristics are quite complex. Changes in metabolism, reactive changes of the adjacent stroma and the frequently thickening of the epithelium are a few of the possible reasons [Dhingra et al. 1998].

The D-LIGHT/AF System – developed by KARL STORZ in cooperation with various clinical partners – is already used as a combined autofluorescence and fluorescence diagnostic device for the early detection of carcinomas in the bronchial system [Huber et al. 1995], in the bladder [Kriegmaier et al. 1994] and in the oral cavity [Leunig 1996].

The D-LIGHT C/AF System can also be used for the early diagnosis of larynx cancer during microlaryngoscopy in the following examination modes:

- Standard diagnosis
- Autofluorescence diagnosis
- Fluorescence diagnosis (ALA-induced protoporphyrin-IX-fluorescence)

First a microlaryngoscopy is performed in standard diagnosis mode (white light endoscopy). By switching the camera of the D-LIGHT C/AF System into the autofluorescence diagnosis mode, short wave blue light induces a typical green autofluorescence of the laryngeal mucosa. Any change of this typical autofluorescence indicates pathological alterations of the epithelium.

Preliminary studies concerning the laryngeal and hypopharyngeal mucosa demonstrated that particularly cancerous changes are highlighted by the color contrast [Fryen et al. 1997]. These observations were supported by spectroscopic measurements concerning the mucosa of the oral cavity and the pharynx [Dhingra et al. 1996].

Our previous and current studies show that especially the detection and delineation of epithelial dysplasia of higher degree and carcinoma are facilitated by autofluorescence endoscopy compared with standard white light examination [Arens et al. 1999].

The D-LIGHT C/AF System also accommodates fluorescence diagnosis. Induced fluorescence is achieved by prior (local or systematic) application of 5-aminolevulinic acid. The consecutive accumulation of protoporphyrin IX in cancerous mucosa also increases the color contrast [Leunig et al. 1996].

In order to improve preoperative diagnosis, indirect laryngoscopic autofluorescence examinations will be available in the future. Our clinical preliminary studies on 50 patients already showed results comparable to microlaryngoscopic autofluorescence diagnosis.

KARL STORZ offers flexible fiberscopes and rigid telescopes as well as specifically adapted PDD camera systems to be used with the D-LIGHT C/AF System for fluorescence diagnosis of early cancer.

*K. MALZAHN, M.D.,
Groß-Gerau, Germany*

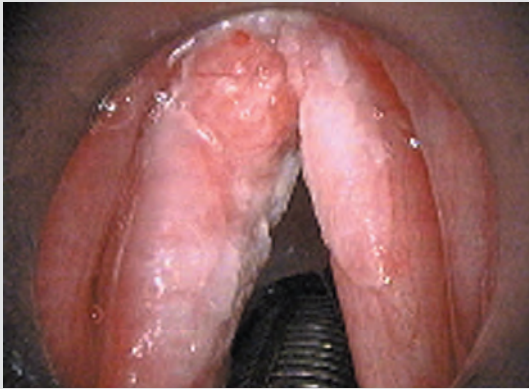
*Prof. C. ARENS, M.D.,
Universitätsklinik für Hals-, Nasen- und Ohrenheilkunde,
Magdeburg, Germany*

*Prof. emer. H. GLANZ, M.D.
Universitätsklinik für Hals-, Nasen- und Ohrenheilkunde,
Gießen, Germany*

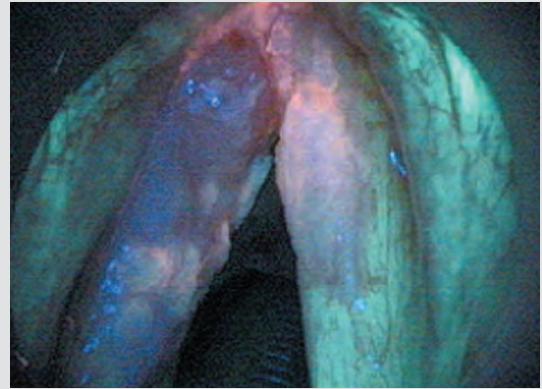
White Light Endoscopy (Microlaryngoscopy) vs. Autofluorescence

Diagnosis:

White Light



Autofluorescence



Keratinizing squamous cell carcinoma on the left, with moderately dysplastic ramifications towards the right vocal cord

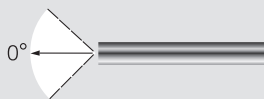
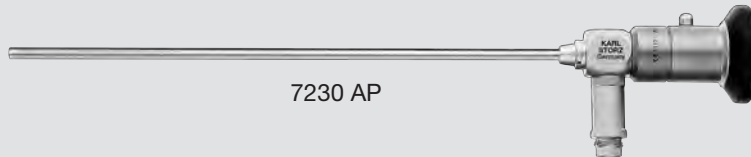


Focal squamous epithelium dysplasia of moderate degree (concomitant with epidermization and focal leucoplasia) only visible in the autofluorescence image by way of of the fluorescence reduction in the marked area (2 patients)

HOPKINS® II Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
of the Nose and Nasal Sinuses, diameter 4 mm, length 18 cm

For Diagnosis and Early Detection of Carcinomas



7230 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



7230 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red



7230 FP

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: black

Fluid Light Cable



495 FO

Fluid Light Cable, diameter 3 mm, length 180 cm

495 FP

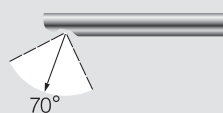
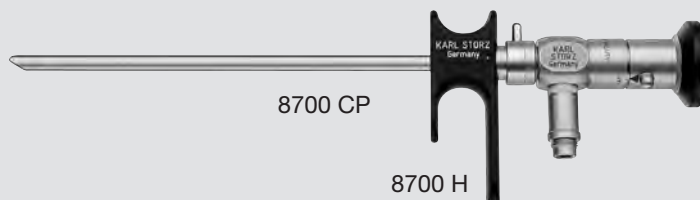
Same, length 250 cm

495 FS

Fluid Light Cable, diameter 2 mm, length 220 cm

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Rigid Indirect laryngoscopy

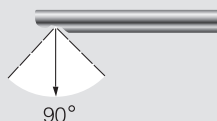


8700 CP

Tele-Laryngoscope, with integrated HOPKINS® lateral telescope 70°, for autofluorescence/photodynamic diagnosis (PDD), angle of view 50°, diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

8700 H

Handle, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



8707 DP

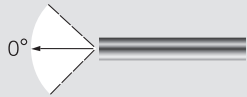
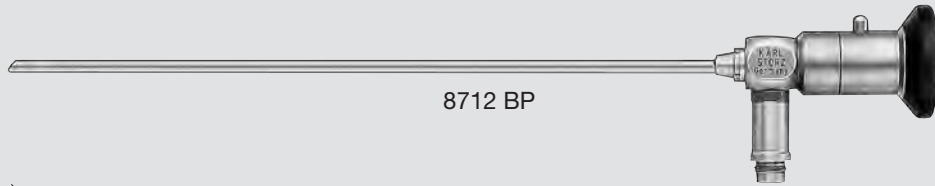
Tele-Laryngo-Pharyngoscope, with integrated HOPKINS® lateral telescope 90°, for autofluorescence/photodynamic diagnosis (PDD), 4x magnification, focusing device, **autoclavable**, diameter 10 mm, working length 15 cm, fiber optic light transmission and filter exchanger incorporated, color code: blue

495 FP

Fluid Light Cable, diameter 3 mm, length 250 cm

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Rigid Direct laryngoscopy



8712 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8712 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red

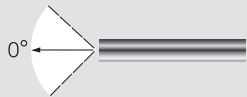
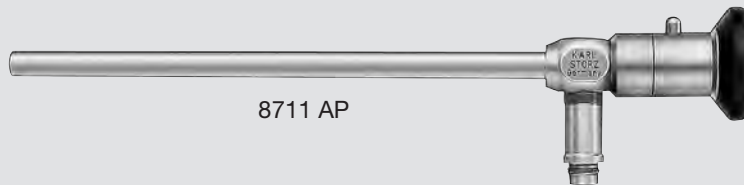


8712 CP

HOPKINS® II Lateral Telescope 70°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

495 FP

Fluid Light Cable, diameter 3 mm, length 250 cm

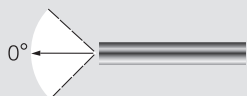
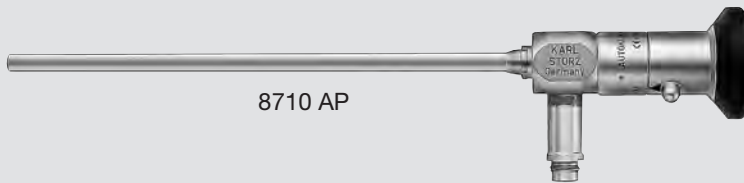


8711 AP

HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm



8710 AP

HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm

Endoscopes

for Photodynamic Diagnosis and Autofluorescence Examination

TRICAM® PDD Three-Chip Camera Head

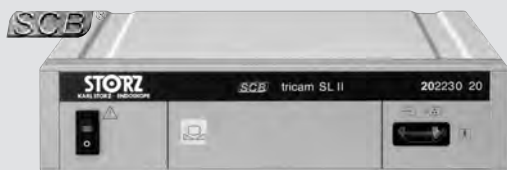


| | | |
|------------|-------------|-------------------------------|
| 20 2210 37 | PAL | TRICAM® PDD |
| 20 2211 37 | NTSC | Three-Chip Camera Head |

color systems **PAL/NTSC**, soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, $f = 25 - 50$ mm (2x), 2 freely programmable camera head buttons, for photodynamic early diagnosis

Specifications:

| TRICAM® Camera Heads | PDD Three-Chip Camera Head |
|-------------------------|---|
| PAL | 20 2210 37 |
| NTSC | 20 2211 37 |
| Image sensor | 3x 1/2" CCD chip |
| Pixels | 752 x 582 (PAL) |
| Output signal H x V | 768 x 494 (NTSC) |
| Resolution (horizontal) | min. 750 lines |
| Dimensions | 37 x 47 mm, length 124 mm |
| Weight | 240 g |
| Min. sensitivity | F 1.4/3 Lux (standard) |
| Lens | Integrated Parfocal Zoom Lens, $f = 25-50$ mm |
| Grip mechanism | Standard eyepiece adaptor |



20 2230 11U1 TRICAM® SL II Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable**, for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin

Specifications:

| | | | |
|----------------------|---|---------------------------|---|
| Video output | - RGBS signal to 4x BNC sockets - S-Video signal to 4-pin Mini-DIN socket (2x) - Composite signal at BNC socket - DV signal to 6-pin DV socket | Camera Control Unit (CCU) | Dimensions : 305 x 88 x 254 mm (B x H x T) |
| Input | Keyboard input for character generator and control functions, 6-pin Mini-DIN socket | Weight | 2.7 kg |
| Control output/input | KARL STORZ-SCB to 6-pin Mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2) | Power supply | 100-240 VAC, 50/60 Hz |
| | | Certified to: | IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF |

Components/Spare Parts see catalog TELEPRESENCE

D-LIGHT C/AF-System SCB

Special Features:

- For photodynamic early diagnosis in bronchoscopy or photodynamic examination of the bladder
- Facility for switching between reduced white light, autofluorescence mode and Protoporphyrin IX fluorescence mode (optional)
- With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)



20 1336 01-133 Cold Light Fountain D-LIGHT C/AF SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Specifications:

| | | | |
|----------------------------|--|----------------------|---|
| Lamp type | XENON 15 V, 300 Watt | Dimensions w x h x d | 305 x 165 x 335 mm |
| Color temperature | 6000 K | Weight | 11 kg |
| Light outlets | 1 | Certified to | IEC 601-1 and UL 544, protection class 1/CF |
| Light intensity adjustment | continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal | | |

Optional Accessories for Cold Light Fountains D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

Autofluorescence Endoscopy System

for the Diagnosis and Early Detection of Bronchial Carcinoma

STORZ
KARL STORZ — ENDOSKOPE

The KARL STORZ autofluorescence endoscopy procedure provides a new diagnostic method for visualizing malignant and pre-malignant changes as early as possible. Patients only have a real chance of survival if bronchial carcinomas are diagnosed at an early stage. Due to its state-of-the-art technology, the system is compact and economically viable.

The distinguishing feature of this diagnostic system is the ability to switch from standard white light bronchoscopy into the autofluorescence diagnosis mode at any time by means of the special **D-LIGHT C (AF)** system in conjunction with specifically adapted flexible and rigid bronchoscopes. A feature of autofluorescence display is the combination of excitation and observation technique (German and international patents pending). An especially adapted endocamera (TRICAM® SL-PDD), which is 60 times more light-sensitive than a standard endocamera, complements the diagnostic system.

Autofluorescence utilizes a natural optical effect in the tissue. This examination mode does not involve any special pre-operative treatment of patients. Specifically adapted to the fluorescent structures in the submucosa, the **D-LIGHT C (AF)** system induces autofluorescence in the bronchial submucosa. The thickened epithelium near the area with the tumorous changes causes the light to be dimmer in the suspicious tumor area than in the healthy regions of the bronchial mucosa. This thickening of the epithelium, along with biochemical and tissue-specific causes, means that potentially tumorous areas are darker than the surrounding healthy tissue. Autofluorescence creates the colour contrast required to demarcate potentially tumorous areas.

In addition, the so-called **PDD Mode** offers an additional diagnosis mode which, for example, clearly displays blood vessels.

Previous and current studies show that **autofluorescence** is more effective than white light bronchoscopy alone for the early detection of bronchial carcinomas. Therefore more systematic biopsies can also be performed. Areas that appear to be normal under white light can be examined more closely and reveal clinical findings that would otherwise remain undetected or are easily overlooked.

Fluorescence diagnosis combined with our system for the early diagnosis of tumors is also used in other fields of application. In **ENT**¹⁾ laryngeal carcinomas and their extent can be detected at an earlier stage and more accurately than when viewed with pure white light. In the **oral cavity**²⁾, carcinomas can be diagnosed more precisely by prior topical ALA sensitization as opposed to PDD. Since 1996, PDD has been regularly applied in **Urology**³⁾ to increase detection sensitivity of cystoscopy for bladder carcinomas in situ. In the field of **Gynecology**⁴⁾ the laparoscopic detection rate of endometritis following prior administration of oral ALA has been considerably improved, allowing more optimized treatment. **Neurosurgery**⁵⁾ also uses our components for open PDD-assisted glioblastoma resection.

*F. STANZEL, M. D.,
Zentrum für Pneumologie und
Thoraxchirurgie, Lungenklinik Hemer,
Germany*

*Prof. K. HÄUSSINGER, M. D.,
Zentrum für Pneumologie und
Thoraxchirurgie, Fachklinik München-Gauting,
Germany*

*R. BAUMGARTNER, M. D.,
Laser-Forschungslabor der
Urologischen Universitätsklinik München-Großhadern,
Germany*

¹⁾ Prof. Dr. Ch. ARENS, Universitätsklinik für Hals-, Nasen- und Ohrenheilkunde Magdeburg

²⁾ Dr. P. SCHLEIER, Klinik for spesialmedisin, oralkirurgisk seksjon, Stavanger, Norway

³⁾ Prof. Dr. C. Stief, Urologische Klinik, Klinikum Großhadern, Munich

⁴⁾ PD Dr. E. MALIK, Klinik für Frauenheilkunde und Geburtshilfe, Universität Aachen

⁵⁾ Prof. Dr. W. Stummer, Neurochirurgische Klinik, Universitätsklinikum Münster

Video Bronchoscope ^{NEW} for Autofluorescence

for use with TELECAM SL II FI SCB 20 2130 11U1

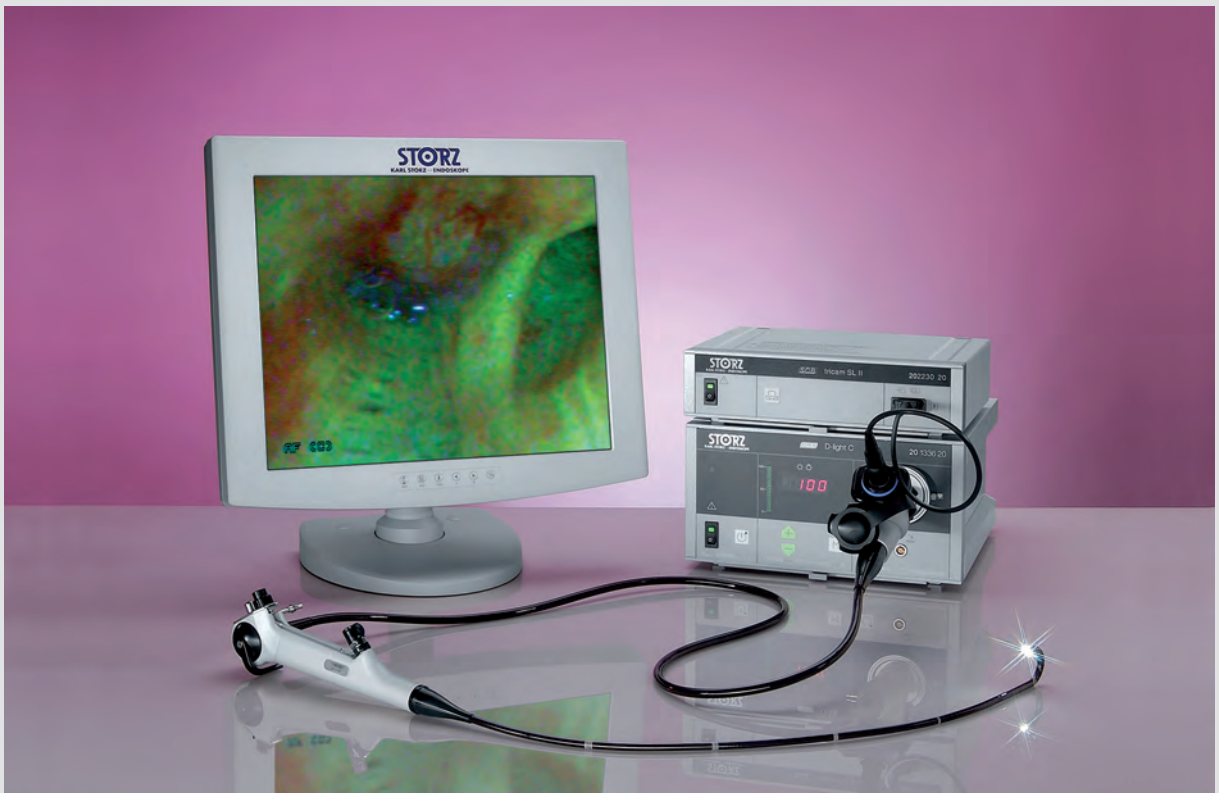
STORZ
KARL STORZ — ENDOSKOPE

KARL STORZ is expanding its line of flexible bronchoscopes with the new video bronchoscope with a distal chip for autofluorescence diagnosis. Users who no longer wish to miss out on the high image quality of videoscopes can now take advantage of the quality products of KARL STORZ in this field, too.

Whereas in the past comparatively heavy fiber optic endoscopes with a separate camera head were used in video endoscopy, this system delivers excellent color

fidelity in both the white light and autofluorescence modes. An integrated button on the handle of the video bronchoscope allows rapid switching between the white light and the blue light modes.

In combination with the TELECAM SL II FI SCB control unit and the D-LIGHT C/AF, the new video bronchoscope for autofluorescence diagnosis offers outstanding image sharpness as well as excellent brightness and representation of detail.



Video Bronchoscope ^{NEW} for Autofluorescence

for use with TELECAM SL II FI SCB 20213011U1

STORZ
KARL STORZ — ENDOSKOPE



11900 AP/AN

11900 AP **Video Bronchoscope for Autofluorescence and White Light Diagnosis**, color system **PAL**, including mounted Suction Unit 11900 AE, for use with TELECAM SL II FI SCB **20213011U1**

Working channel: 2.3 mm
Direction of view: 0°
Angle of view: 120°
Deflection up/down: 180°/100°
Depth of view: 3 – 50 mm
Working length: 61 cm
Outer diameter: 6.2 mm

11900 AN **Same**, color system **NTSC**

Following accessories included:

27677 KV **Case**
20213070 **Video Connecting Cable**
13272 **Mouth Piece**
11001 KL **Biopsy Forceps**, spoon-shaped, round, flexible, double action jaws, diameter 1.8 mm, working length 120 cm
13242 LX **Leakage Tester**, with blower and manometer
11025 XE **Pressure Compensation Cap**, for ventilation during gas sterilization
27651 B **Cleaning Brush**, flexible, length 100 cm
13991 SS **Irrigation Tube**, for working channel
27656 B **Instrument Oil**, 50 ml
13990 SFN **Protective Film**

Optional accessories see pages 694-696

TELECAM SL II FI SCB ^{NEW}

for use with Video Bronchoscope for Autofluorescence



202130 11U1 TELECAM SL II FI Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module, suitable for fluorescence applications, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cable**, for controlling peripheral units

SCB Connecting Cable

Keyboard, with US English character set

Specifications:

| | | | |
|----------------|--|--------------------|---|
| Video output | - RGB signal to 15-pin HD D-Sub socket - Composite signal at BNC socket - S-Video signal to 4-pin Mini-DIN socket (2x) | Control Unit (CCU) | Dimensions: 305 x 88 x 254 mm (w x h x d) |
| Input | Keyboard input for title generator and camera functions to 5-pin DIN socket | Weight | 2.7 kg |
| Control output | 3.5 mm stereo jack plug (ACC 1, ACC 2, SCB) | Power supply | 100-240 VAC, 50/60 Hz |
| | | Certified to | IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE according to MDD, protection class 1/BF |

The system can be operated with **KARL STORZ-SCB** units.

Optional accessories for **TELECAM SL II FI SCB** and **Components/Spare Parts** see catalog **TELEPRESENCE**

D-LIGHT C/AF-System SCB

for use with Video Bronchoscope for Autofluorescence



20 1336 01-133 Cold Light Fountain D-LIGHT C/AF SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Accessories (required in conjunction with KARL STORZ video bronchoscopes)

487 KVE **Adaptor**, for KARL STORZ light sources for use with KARL STORZ video bronchoscopes

Optional accessories

495 KS **Adaptor**, for standard KARL STORZ fiber optic light cables (not 495 NCS) in conjunction with adaptor for KARL STORZ Video Bronchoscope 487 VE

Specifications:

| | |
|----------------------------|---|
| Lamp type | XENON 15 V, 300 Watt |
| Color temperature | 6000 K |
| Light outlets | 1 |
| Light intensity adjustment | continuously adjustable either via a membrane keyboard or KARL STORZ Communication Bus Signal |

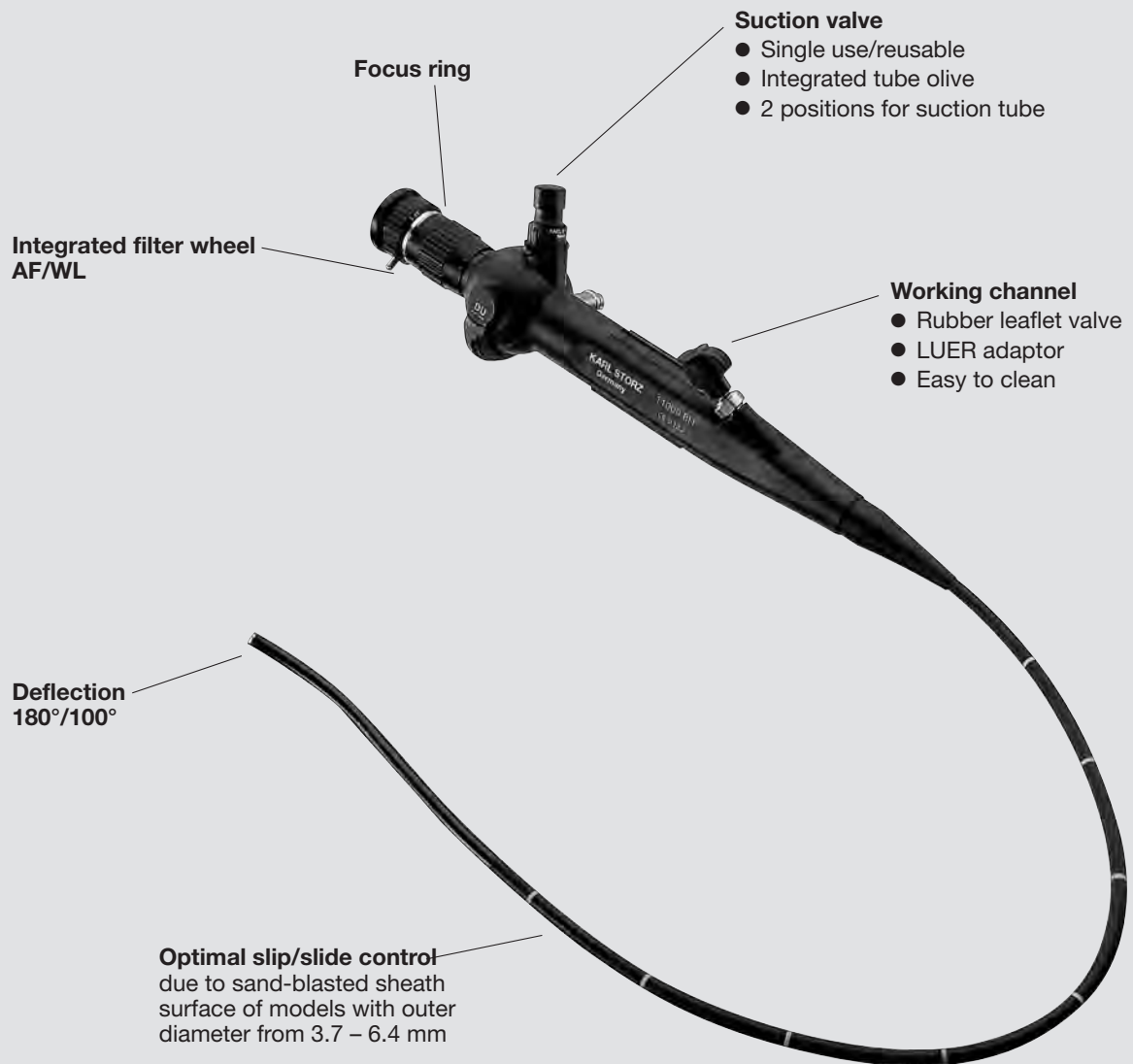
| | |
|----------------------|---|
| Dimensions w x h x d | 305 x 165 x 335 mm |
| Weight | 11 kg |
| Certified to: | IEC 601-1 and UL 544, protection class 1/CF |

Optional accessories for Cold Light Fountain D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.


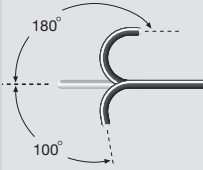

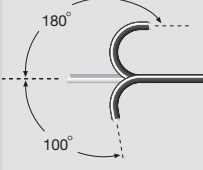

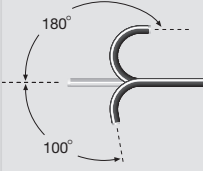
Broncho-Fiberscopes for Autofluorescence

Special Features:

- Working channel for the use of operating instruments
- Functional: Simultaneous suction and administration of medication via removable suction valve
- Waterproof, fully immersible for cleaning and disinfection
- Simple leakage test requires no additional accessories
- Sterilizable via EtO and FO gas, Steris® and Sterrad®
- Recommended for use with KARL STORZ ENDOVISION® TRICAM® SL II PDD SCB System



Broncho-Fiberscopes for Autofluorescence

| Broncho-Fiberscopes (AF) | Art-No. | | Deflection up/down | Direction of view | Angle of view | Working length |
|--------------------------------------|----------|---|---|-------------------|---------------|----------------|
| 6.4 mm x 54 cm Broncho-Fiberscope | 11004 BI |  |  | 0° | 110° | 54 cm |
| 5.6 mm x 54 cm Broncho-Fiberscope | 11009 BI |  |  | 0° | 110° | 54 cm |
| 5 mm x 54 cm Broncho-Fiberscope | 11001 BI |  |  | 0° | 110° | 54 cm |



Fluid Light Cable for use with Broncho-Fiberscopes for Autofluorescence and Photodynamic Diagnosis (PDD)

495 FO
495 FP

Fluid Light Cable, diameter 3 mm, length 180 cm
Fluid Light Cable, diameter 3 mm, length 250 cm



39402 A

Plastic Container, for gas or plasma sterilization and storage

| | Total length | Working channel inner diameter | Distal tip outer diameter | Accessories (included in delivery) | | | | | | |
|--|--------------|--------------------------------|---------------------------|------------------------------------|--------------------|----------------|-------------|----------------|----------------|------------------|
| | | | | Case | Pressure Comp. Cap | Leakage Tester | Mouth Piece | Cleaning Brush | Biopsy Forceps | Grasping Forceps |
| | 82 cm | 2.8 mm | 6.4 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 C | 11001 KL | 11002 KS |
| | 82 cm | 2.6 mm | 5.5 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 C | 11001 KL | 11002 KS |
| | 82 cm | 2.3 mm | 5.2 mm | 27677 BB | 11025 E | 13242 XL | 13272 | 27651 B | 11001 KL | 11002 KS |

Accessories included in delivery:



27677 BB **Case**



11025 E **Pressure Compensation Cap**, for ventilation during gas sterilization

13242 XL **Leakage Tester**, with bulb and manometer



13272 **Mouthpiece**



27651 B **Cleaning Brush**, flexible, round, outer diameter 3 mm, for working channel diameter 1.8 – 2.6 mm, length 100 cm



27651 C **Cleaning Brush**, round, flexible, outer diameter 4 mm, for working channel diameter 2.4 – 3.6 mm, length 230 cm



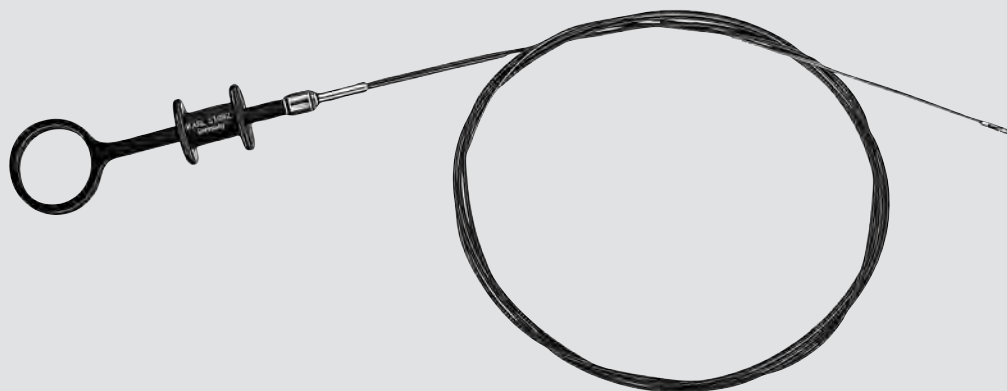
11001 KL **Biopsy Forceps**, flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120 cm









11002 KS **Grasping Forceps**, flexible, alligator jaws, double action jaws, diameter 1.8 mm, working length 120 cm

Optional Accessories

for Flexible Bronchoscopes









| | | | Dia. | Length | for use with | | | |
|---|----------|--|--------|--------|--------------|----------|----------|-------------|
| | | | | | 11004 BI | 11009 BI | 11001 BI | 11900 AP/AN |
|  | 11002 KT | Grasping Forceps , alligator jaws, round, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | ● |
| | 13252 KT | | 2.3 mm | | ● | ● | - | - |
|  | 11002 KU | Grasping Forceps , spoon-shaped, serrated, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | ● |
| | 13252 KU | | 2.3 mm | | ● | ● | - | - |
|  | 11002 KX | Grasping Forceps , alligator jaws, serrated, 3 x 4 teeth, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | ● |
| | 13252 KX | | 2.3 mm | | ● | ● | - | - |
|  | 11002 KZ | Grasping Forceps , serrated, 1 x 2 teeth, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | ● |
| | 13252 KZ | | 2.3 mm | | ● | ● | - | - |
|  | 11001 KM | Biopsy Forceps , spoon-shaped, round, with spike, fenestrated, flexible, double action jaws | 1.8 mm | 120 cm | ● | ● | ● | ● |
| | 13250 KM | | 2.3 mm | | ● | ● | - | - |
|  | 13250 KN | Biopsy Forceps , spoon-shaped, oval, fenestrated, flexible, double action jaws | 2.3 mm | 120 cm | ● | ● | - | - |

Further Accessories for Flexible Bronchoscopes see chapter 12, BRONCHOSCOPY, TRACHEOSCOPY

Optional Accessories










for Flexible Bronchoscopes

for use with

| | | | 11004 BI | 11009 BI | 11001 BI | 11900 AP |
|---|----------|--|----------|----------|----------|----------|
|  | 10770 B | Button Electrode , flexible, with connector pin for unipolar coagulation, diameter 1.7 mm, length 80 cm | ● | ● | ● | ● |
| | 11161 KE | Coagulation Electrode , unipolar, flexible, diameter 1 mm, length 110 cm | ● | ● | ● | ● |
|  | 11007 BS | Brush , for cytology, outer diameter 1.7 mm, working length 80 cm | ● | ● | ● | ● |
|  | 11007 E | Brush , package of 10 | ● | ● | ● | ● |
|  | 11008 | Suction Catheter , 4.5 Fr., length 100 cm, with Adaptor 10479 F | ● | ● | ● | ● |
|  | 11008 E | Catheter , 5 Fr., without adaptor | ● | ● | ● | - |
|  | 10479 F | Adaptor , for Suction Catheter 10468 D, 10478 D and 11008 E | ● | ● | ● | - |

Optional Accessories

for Flexible Bronchoscopes

| | | | for use with | | |
|---|-----------|---|--------------|----------|----------|
| | | | 11004 BI | 11009 BI | 11001 BI |
|  | 11301 CA | Leaflet Valve , for single use, package of 20 | ● | ● | ● |
|  | 11301 CB | Suction Valve , reusable | ● | ● | ● |
|  | 11301 CD | Irrigation Adaptor , for machine cleaning, reusable, for fiberscopes | ● | ● | ● |
|  | 11301 CE | Suction Valve , for single use, package of 20 | ● | ● | ● |
|  | 11301 BM | Adaptor , for leakage test, for Belimed washer-disinfectors | ● | ● | ● |
|  | 11301 FF2 | Adaptor for MIELE Cleaning Machines , with safety valve, for automatic leakage test of flexible KARL STORZ endoscopes | ● | ● | ● |
|  | 11301 GG2 | Adaptor , for cleaning and disinfecting the irrigation and working channels of flexible endoscopes, for MIELE-ETD washer/disinfectors | ● | ● | ● |
|  | 11301 HH | Adaptor for BHT Cleaning Machines , for automatic leakage test of flexible KARL STORZ endoscopes | ● | ● | ● |
|  | 11301 KK2 | Adaptor , for working channel of flexible endoscopes, for MIELE-ETD 03 washer/disinfectors Please note: Adaptors 11301 FF2 and 11301 GG2 have to be ordered separately! | ● | ● | ● |

10320 AP – DP



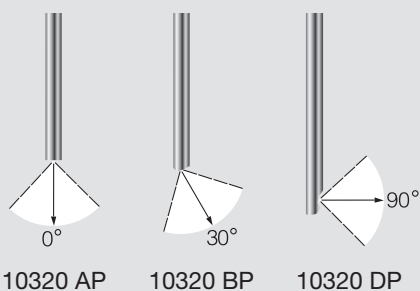
10320 AP **HOPKINS® Straight Forward Telescope 0°**, diameter 5.5 mm, length 50 cm, **autoclavable**, for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: green

10320 BP **HOPKINS® Forward-Oblique Telescope 30°**, diameter 5.5 mm, length 50 cm, **autoclavable**, for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: red

10320 DP **HOPKINS® Lateral Telescope 90°**, diameter 5.5 mm, length 50 cm, **autoclavable**, for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: blue

Fluid Light Cable for use with HOPKINS® Telescopes for Autofluorescence and Photodynamic Diagnosis (PDD):

495 FS **Fluid Light Cable**, diameter 2 mm, length 220 cm



HOPKINS® Telescopes for use with Bronchoscopes see chapter 12, BRONCHOSCOPY, TRACHEOSCOPY

TRICAM® SL II

Three-Chip Camera System, Color Systems PAL/NTSC,
Digital Imaging Processor

TRICAM® SL II is the endoscopic video platform offered by KARL STORZ for endoscopically-assisted applications and video display.

This CCD sensor technology separates the optical image of the 3-CCD image sensor into the three primary colors by means of a specially coated color prism.

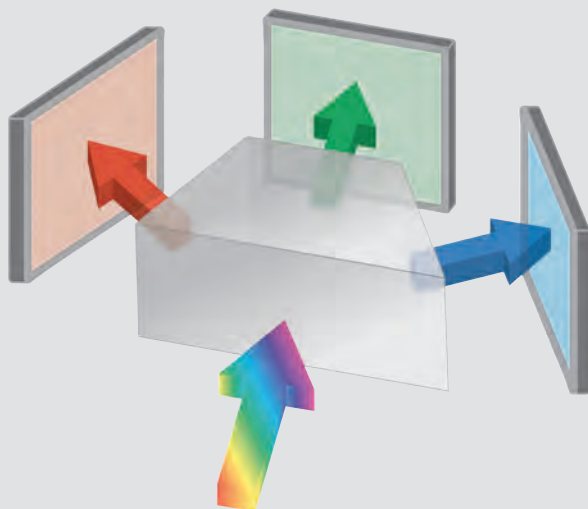
Each individual CCD sensor receives a specific color with the maximum line representation.

The separate processing of the primary color information red, green, and blue means that all colors can be optimally captured with this process. Furthermore, the use of all three CCD sensors offers more detailed enhancement.

Signals are processed by means of a digital image processor. The endoscopic image is produced true to the original image. The image processor also assumes automatic image optimization during continuously changing illumination and color conditions. Manual adjustment is therefore no longer necessary.

The user has several pre-assigned digital-optimization-filters at his disposal for adjustment to rigid, semi-rigid and flexible endoscopes at the touch of a button.

Video outputs such as Digital-Video (DV) and all analog signal variations are an integral feature of **TRICAM® SL II** standard equipment.



Special Features:

- 3-CCD sensor chip technology
- Digital Signal Processing (contrast and filter enhancement for rigid, semirigid and flexible endoscopes)
- Image size display, regardless of the telescope used, thanks to patented Parfocal Optical Zoom Lens
- Programmable control elements
- Parameters of the OR equipment used, light sources, etc. can be displayed and controlled (KARL STORZ Communication Bus) on the monitor
- Digital video output (DV) for digital recording
- Digital zoom 1 – 2x can be adjusted to 4 levels
- “Freeze Frame” function can be activated via camera head buttons or an external footswitch
- Fluorescence imaging mode available

TRICAM® SL II

Camera Control Unit SCB



20 2230 11U1 TRICAM® SL II Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable**, for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin

Specifications:

| | | | |
|----------------------|---|---------------------------|---|
| Video output | - Composite signal at BNC socket - S-Video signal to 4-pin Mini-DIN socket (2x) - RGBS signal to 4x BNC sockets - DV signal to 6-pin DV socket | Camera Control Unit (CCU) | Dimensions: 305 x 88 x 254 mm (w x h x d) |
| Input | Keyboard input for character generator and control functions, 6-pin Mini-DIN socket | Weight | 2.7 kg |
| Control output/input | KARL STORZ-SCB to 6-pin Mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2) | Power supply | 100-240 VAC, 50/60 Hz |
| | | Certified to: | IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF |

Optional Accessories for TRICAM® SL II and Components/Spare Parts see catalog TELEPRESENCE

TRICAM® SL II

Camera Heads

For use with TRICAM® SL II Camera Control Unit SCB 20 2230 11U1

TRICAM® PDD Three-Chip Pendulum Camera Head



20 2210 39 / 20 2211 39

| | | |
|------------|-------------|--|
| 20 2210 39 | PAL | TRICAM® PDD Three-Chip Pendulum Camera Head |
| 20 2211 39 | NTSC | |

color systems **PAL/NTSC**, soakable, gas-sterilizable, **with pendulum system and fixed focus, f = 14 mm**, 2 freely programmable camera head buttons, **for photodynamic early diagnosis**

TRICAM® PDD Three-Chip Camera Head



20 2210 37 / 20 2211 37

| | | |
|------------|-------------|---|
| 20 2210 37 | PAL | TRICAM® PDD Three-Chip Camera Head |
| 20 2211 37 | NTSC | |

color systems **PAL/NTSC**, soakable, gas-sterilizable, **with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x)**, 2 freely programmable camera head buttons, **for photodynamic early diagnosis**

Specifications:

| TRICAM® Camera Heads | PDD Three-Chip Pendulum Camera Head | PDD Three-Chip Camera Head |
|-------------------------|---|---|
| PAL | 20 2210 39 | 20 2210 37 |
| NTSC | 20 2211 39 | 20 2211 37 |
| Image sensor | 3x ¼" CCD chip | 3x ½" CCD chip |
| Pixels | 752 x 582 (PAL) | 752 x 582 (PAL) |
| Output signal H x V | 768 x 494 (NTSC) | 768 x 494 (NTSC) |
| Resolution (horizontal) | min. 750 lines | min. 750 lines |
| Dimensions | Diameter 29-37 mm, length 117 mm | 37 x 47 mm, length 124 mm |
| Weight | 170 g | 240 g |
| Min. sensitivity | F 1.4/3 Lux (standard) | F 1.4/3 Lux (standard) |
| Lens | Pendulum system, fixed focus, f = 14 mm | Integrated Parfocal Zoom Lens, f = 25-50 mm |
| Grip mechanism | Standard eyepiece adaptor | Standard eyepiece adaptor |

Optional accessories for TRICAM® SL II see catalog TELEPRESENCE

D-LIGHT C/AF-System SCB

Special Features:

- For photodynamic early diagnosis in the upper airways
- Facility for switching between reduced white light, autofluorescence mode and Protoporphyrin IX fluorescence mode (optional)
- With integrated KARL STORZ Communication Bus (KARL STORZ-SCB®)



20 1336 01-133 Cold Light Fountain D-LIGHT C/AF SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Specifications:

| | | | |
|----------------------------|--|-------------------------|--|
| Lamp type | XENON 15 V, 300 Watt | Dimensions w x h x d | 305 x 165 x 335 mm |
| Color temperature | 6000 K | Weight | 11 kg |
| Light outlets | 1 | Certified to | IEC 601-1 and UL 544, protection class 1/CF |
| Light intensity adjustment | continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal | | |

2-061

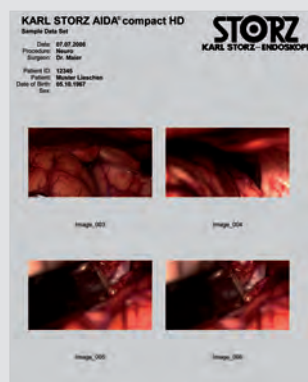
Optional Accessories for Cold Light Fountains D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

The Compact Documentation Solution

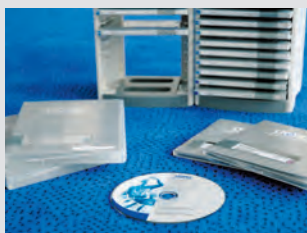
The new KARL STORZ AIDA® compact NEO advanced/standard system combines all the required functions for integrated and precise documentation in a single system. All functions are centrally controlled via touch screen, footswitch, camera head buttons or voice control directly from the sterile area.



AIDA compact NEO advanced/standard: Review screen



AIDA compact NEO advanced/standard: Automatic creation of standard reports



AIDA compact NEO advanced/standard: Efficient archiving

Data Acquisition

AIDA compact NEO advanced/standard records still images, video sequences (in HD quality) and spoken comments of findings and intraoperative procedures directly from the sterile area. Recordings are activated via touch screen, footswitch or camera head buttons.

Live display of camera images on the touch screen enables immediate monitoring and selection of the recorded data.

Flexible Review

Before final archiving, the saved data can be viewed or listened to on the review screen. Data no longer required can be simply deleted.

Individual images, video and audio sequences can be renamed and given more meaningful names. A pre-defined selection list with keywords simplifies and speeds up data entry.

A voice entry of the case report can even be recorded while viewing video and image files.

Automated Data Archiving

Once a treatment is completed, AIDA compact NEO advanced/standard automatically stores the data on a DVD, creates a standard report and prints it as an overview, if required.

Multipatient

Efficient data archiving is assured as the data of several patients can be saved on a DVD.

Data Management and Documentation

KARL STORZ AIDA® compact NEO advanced/standard

Special Features:

- Digital storage of still images with a resolution of 1920 x 1080 in both systems (advanced/standard) possible. Video sequences to 1080p with advanced and to 720p with standard variant possible (via HD-SDI)
- Audio files can be archived in both systems
- DICOM/HL7 interface package included
- Printing from review area (individual images with meta-data)
- DVD burning, Blu-ray reading capabilities
- AIDA Restore Configuration supports simple import and export of system settings
- Reference screen with new QuickView (favorites folder)
- Video settings (e.g. contrast, ...) separate for all channels
- Adaptation options for GUI
- Compressed DICOM
- Supports OR1™ Checklist V1.1
- Enhanced support of 15" monitors with OR1™ checklist installation
- Scalable watermark
- High-quality function and switching of image/video quality without additional settings
- Sterile, ergonomic operation via touch screen, camera head buttons and/or footswitch
- Data export to DVD, CD-ROM or USB flash drive, multi-session and multi-patient
- Network storage possible
- Automatic creation of standard reports
- Systems for use in the OR area certified according to EN 60601-1
- Compatible with KARL STORZ Communication Bus (SCB) and KARL STORZ OR1™ AV NEO
- KARL STORZ AIDA® compact advanced/standard as an attractive, digital alternative to video printers, video recorders and dictating machines



Data Management and Documentation

KARL STORZ AIDA® compact NEO advanced/standard

20 0409 13-EN* **KARL STORZ AIDA® compact NEO advanced**

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz

including:

KARL STORZ AIDA® control NEO, with integrated DVD/CD writer, Blu-ray reading possible

AIDA compact HD Frame Grabber Card

PS/2 Compact Keyboard, US English, with cover

KARL STORZ AIDA® compact NEO Software, with voice control and software protection

KARL STORZ USB Flash Drive

2x **Connecting Cables**, for controlling peripheral units

BNC/BNC Video Cable

BNC Connecting Cable

DVI-D Connecting Cable

Mains Cord

Connecting Cable, Mini-DIN plug to BNC socket

20 0409 12-EN* **KARL STORZ AIDA® compact NEO standard**

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz

Specifications:

| | |
|---------------|--|
| Video Systems | - PAL, NTSC |
| Signal Inputs | - S-Video (Y/C) - Composite - RGB (only standard) - SD-SDI (only standard) - HD-SDI (only standard) - DVI-D (only advanced) |
| Image Formats | - JPG - BMP |

| | |
|---------------|--|
| Video Formats | - MPEG2 |
| Audio Formats | - WAV |
| Storage Media | - DVD+R - DVD+RW - DVD-R - DVD-RW - CD-R - CD-RW - USB Stick |

* Available in the following languages: EN, ES, FR, IT, PT, PL, RU, DK, SE, JP, CN
Components/Spare Parts see catalog KARL STORZ OR1 NEO®

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ TFT Flat Screens



W29519 N



W29519 NB

| | |
|--|------------|
| KARL STORZ TFT Flat Screens | 19" |
| Desktop with Pedestal | W29519 N |
| Wall-mounted with VESA 100-adaption | W29519 NB |
| Inputs: | |
| SDI | ● |
| HD-SDI | ● |
| RGBS | ● |
| S-Video | ● |
| Composite | ● |
| SOG | ● |
| DVI-D | ● |
| Fiber Optic | — |
| VGA | ● |
| Outputs: | |
| SDI | ● |
| HD-SDI | ● |
| RGBS | ● |
| S-Video | ● |
| Composite | ● |
| DVI-D | ● |
| Signal format displays: | |
| 4:3 | ● |
| 5:4 | ● |
| 16:9 | ● |
| 16:10 | ● |
| Picture-in-Picture (PiP, HD – SD) | ● |
| Picture-in-Picture (PiP, HD – HD) | ● |
| PAL/NTSC compatible | ● |
| Picture-Perfect Technology | ● |

Accessories included in delivery:

- 400 A **Mains Cord**, length 300 cm
- 9419 PS **Power Supply**
- 9526 SF **Pedestal**, for 19", 24" and 26" monitors

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ TFT Flat Screens

W29519 N 19" KARL STORZ TFT Flat Screen

desktop with pedestal, color systems **PAL/NTSC**, max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

W29519 NB 19" KARL STORZ TFT Flat Screen

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC**, max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

including:

- Power Supply**
- Mains Cord**
- BNC/BNC Video Cable**
- S-Video (Y/C) Connecting Cable**
- DVI-D Connecting Cable**
- SVGA Monitor Cable**

Specifications:

| | |
|--|---|
| KARL STORZ TFT Flat Screens | 19" |
| Desktop with Pedestal | W29519 N |
| Wall-mounted with VESA 100-adaption | W29519 NB |
| Brightness | 300 cd/m ² |
| Max. viewing angle | 178° vertical |
| Pixel distance | 0.294 mm |
| Reaction time | 10-16 ms |
| Contrast ratio | 600:1 |
| Mount | 100 mm VESA |
| Weight | 6.8 kg |
| Rated power | 65 Watt |
| Operating conditions | 0-38 °C |
| Storage | -20-60 °C |
| Relative humidity | 5-85%, non-condensing |
| Dimensions w x h x d | 465 x 400 x 98 mm |
| Power supply | 100-240 VAC |
| Certified to | EN 60601-1, UL 60601-1, MDD 93/42/EEC, protection class IPX 1 |

Components/Spare Parts see catalog KARL STORZ OR1 NEO®

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ Touch Screens



20 0904 03/20 0904 06



20 0904 01/20 0904 05

| KARL STORZ Touch Screens | 15" | 19" |
|---|------------|------------|
| Desktop with Pedestal | 20 0904 03 | 20 0904 06 |
| Wall-mounted with VESA 75/100-adaption | 20 0904 01 | 20 0904 05 |
| Inputs: | | |
| VGA | ● | ● |
| SVGA | ● | ● |
| XGA | ● | ● |
| SXGA | - | ● |
| Screen Diagonal: | | |
| 38 cm | ● | - |
| 48 cm | - | ● |
| Max. Screen Resolution: | | |
| 1024 x 768 | ● | - |
| 1280 x 1024 | - | ● |

Specifications:

| KARL STORZ Touch Screens | 15" | 19" |
|---|--|---|
| Desktop with Pedestal | 20 0904 03 | 20 0904 06 |
| Wall-mounted with VESA 75/100-adaption | 20 0904 01 | 20 0904 05 |
| Monitor type | TFT-LCD monitor with active matrix | TFT-LCD monitor with active matrix |
| Display | 304 x 228 mm | 376 x 301 mm |
| Touch Screen | AccuTouch | AccuTouch |
| Colors | 16 million with pixel shading | 16 million with pixel shading |
| Brightness | 250 cd/m ² (typ.) | 250 cd/m ² (typ.) |
| Viewing angle | Horizontal 80° Vertical 80° | Horizontal 85° Vertical 85° |
| Contrast ratio | 400:1 (typ.) | 500:1 (typ.) |
| Monitor reaction time | 25 ms | 25 ms |
| Pixel distance | 0.30 mm | 0.29 mm |
| Input signal level | 0.7 Vpp | 0.7 Vpp |
| Rated power | 48 VA | 90 VA |
| Connections | - D-Sub - VGA-compatible analog-RGBS | - D-Sub - VGA-compatible analog-RGBS |
| Power supply | 100-240 VAC, 50/60 Hz | 100-240 VAC, 50/60 Hz |
| Certified tot | EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1 | EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1 |
| Mechanical values | - Weight: max. 6.5 kg - Dimensions w x h x d: 375 x 356 x 205 mm | - Weight: max. 10.5 kg - Dimensions w x h x d: 432 x 467 x 251 mm |

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ Touch Screens

20 0904 01 15" KARL STORZ Touch Screen

wall-mounted, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Adaptor, VESA 75

Signal cables: RS 232, SVGA

20 0904 03 15" KARL STORZ Touch Screen

desktop, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

20 0904 05 19" KARL STORZ Touch Screen

wall-mounted, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Signal cables: RS 232, SVGA

20 0904 06 19" KARL STORZ Touch Screen

desktop, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

Accessories:

- 20 0904 81 **Mains Adaptor**, for 15" KARL STORZ Touch Screen 20 0903 31, with 300 cm low voltage cable
- 20 0904 85 **Mains Adaptor**, for 19" KARL STORZ Touch Screen 20 0904 37, with 300 cm low voltage cable
- 20 0903 86 **Touch Pen**, for KARL STORZ touch screens
- 20 0904 86 **Pedestal**, for 15" KARL STORZ Touch Screen 20 0903 31
- 20 0904 87 **Pedestal**, for 19" KARL STORZ Touch Screen 20 0903 37 and 20 0904 37
- 041165-20* **Sterile Cover**, for 15" KARL STORZ touch screen
- 041265-20* **Sterile Cover**, for 19" KARL STORZ touch screen



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see catalog KARL STORZ OR1 NEO®

Accessories

for AIDA compact NEO advanced/standard



29005 SZ

Monitor Swivel Arm, height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 600 mm, for side boom as of 800 mm, loading capacity max. 14 kg, with monitor holder VESA 75/100, for Equipment Cart 29005 LAP/GU/BAS



20 0402 73

Bar Code Scanner



9370 TQ

Color Ink Jet Printer, with horizontal paper feed, incl. mains cord, USB printer cable, length 200 cm, black and color ink jet cartridges

9371 LA

Color Laser Printer, including mains cord, USB printer cable length 200 cm



20 0902 34

PS/2 Compact Keyboard, German version, with cover

20 0402 32

PS/2 Silicone Keyboard, German version, washable, disinfectable



20 0104 30

Two-Pedal Footswitch, two-stage

Accessories

for AIDA compact NEO advanced/standard

| | | |
|--|------------------|---|
| | 200402 72 | SVGA Connecting Cable , length 600 cm |
| | 200400 73 | RS 232 Connecting Cable , length 600 cm |
| | 200400 74 | Printer Cable , length 300 cm |
| | 200401 74 | Printer Cable , length 500 cm |
| | 200103 70 | Potential Equalization Cable , length 200 cm |
| | 200102 70 | Potential Equalization Cable , length 500 cm |
| | W20475 | OR1™ Network Isolator , for galvanic decoupling of units with RJ45 network connection (100 Mbit) |
| | 200900 34 | Ethernet Network Board , 10/100 Mbit/s |
| | 200900 37 | Fiber Optic Network Board , 100 Base-FX (SC) |
| | 200901 71 | Fiber Optic Network Cable , LWL-patch cable with ST and SC plugs, configured, length 100 cm |
| | 200900 36 | Media Converter , converts a ST-Port 100 Base-FX to a RJ45 100 Base-TX, including power supply |
| | 200400 76 | RJ45 Network Cable , length 500 cm |
| | 202040 80 | CD-R , 700 MB, package of 10 |
| | 202040 81 | DVD+RW , 4.7 GB, package of 5 |
| | 202040 82 | DVD+R , 4.7 GB, package of 10 |
| | 202040 83 | DVD-R , 4.7 GB, package of 10 |



NAVIGATION

NAV1® PICO

The Mobile Navigation System for ENT Surgery

Similar to car navigation technology, surgery also requires a tool that provides safe and secure orientation towards a destination by means of a patient roadmap, uncomplicated surgical routes and a clear indication of

danger zones. The system should always enable the surgeon to determine the exact location of an instrument in a patient's body. The KARL STORZ NAV1® PICO provides the surgeon with this ability.

Special Features:

- Mobile, space-saving system with intuitive handling
- Easy assembly and flexible use in the OR
- Durable, robust and autoclavable navigation instruments
- Autoclavable accessories



NAV1® PICO

The Mobile Navigation System for ENT Surgery



40 8000 01

- 40 8000 01** NAV1® PICO, positioning aid for navigated ENT surgery, including:
- Panel PC**, including installed ENT navigation software and passive touch pen
 - Optical Mouse**
 - Camera**
 - Electronic Box**
 - Docking Adaptor**, for panel PC, with CD-RW/DVD-ROM
 - Stand**, mobile, with locking knob for camera
 - Data Cable**
 - VGA Cable**
 - Camera Cable**
 - Headband with Plastic Holder**
 - Patient Tracker II**, with glass marker spheres, **autoclavable**
 - Case**, for panel PC, camera, electronic box, mobile stand and connecting cables
 - Navigation Probe**, with glass marker spheres, **autoclavable**
 - Mains Cord**

Components/Spare Parts see chapter 16

Probe, Patient Tracker and Headband

for NAV1® PICO



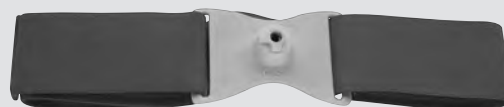
40 8001 10

40 8001 10 **Navigation Probe**, with 3 fixed glass marker spheres, autoclavable, dimensions: 295 x 15 x 30 mm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8000 87

40 8000 87 **Patient Tracker II**, with verification adaptor, 3 incorporated glass marker spheres and fixation screw, **autoclavable**, dimensions: 80 x 60 x 12 mm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8000 80

40 8000 80 **Headband**, for NAV1® PICO, standard size, with plastic holder for Patient Tracker II **40 8000 87**

The autoclavable Probe **40 800110** with glass spheres for position tracking is a versatile, basic instrument for navigation.

The more user-friendly, autoclavable Patient Tracker II **40 8000 87** ensures position tracking and orientation of the patient.

Navigation Suction Tubes

angular, curved downwards, curved upwards

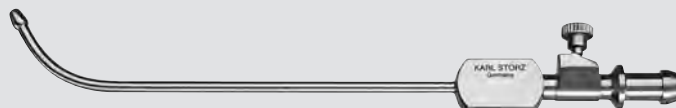
Outer diameter 3 mm, working length 9 cm



40 8001 40

- 40 8001 40 FRAZIER **Navigated Suction Tube**, angular, for right-handed use, with cut-off hole, 9 Fr., working length 10 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems

Outer diameter 3 mm, working length 11 cm



40 8001 50

- 40 8001 50 v. EICKEN **Navigated Suction Tube**, curved upwards, for right-handed use, outer diameter 3 mm, length 12.5 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8001 60

- 40 8001 60 v. EICKEN **Navigated Suction Tube**, curved downwards, for right-handed use, outer diameter 3 mm, length 12.5 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems

Instrument Tracker

for NAV1® PICO

The autoclavable instrument tracker is designed for the navigation of various instruments. The small size of the

instrument tracker reduces the risk of collision and ensures very good instrument maneuverability.

Special Features:

- Miniaturized design
- Can be used for various navigation instruments



40 8001 20 **Tool Tracker**, for navigated instruments, with 3 fix-mounted glass spheres, **autoclavable**, dimensions: 70 x 50 x 14 mm, for use with navigated instruments **40 8001 4x**, **40 8001 5x**, **40 8001 6x** and **40 8001 7x**

Suction Tube Verification Adaptor

The autoclavable verification adaptor enables easy and secure verification testing of various navigation in-

struments. The adaptor is used to verify the proper functioning of navigation suction tubes prior to use.



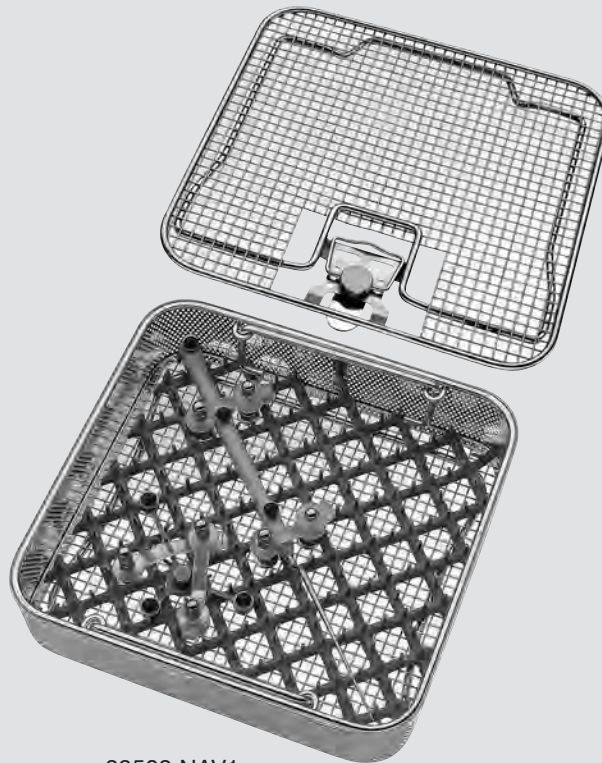
40 8001 30

40 8001 30 Suction Tube Verification Adaptor, autoclavable,
dimensions: 35 x 4 x 14 mm, for use with Patient
Tracker **40 8000 86**

Please note: This adaptor is not required for Patient Tracker II **40 8000 87**

Wire Tray for Navigation Probe and Patient Tracker

The wire tray ensures hygienic and secure sterilization, cleaning and storage of standard navigation instrument sets.



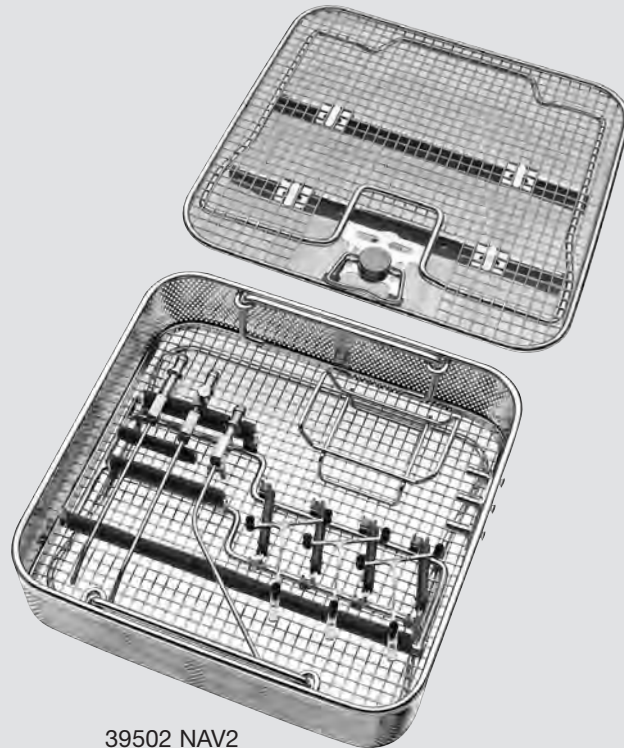
39502 NAV1

39502 NAV1 **Wire Tray for Cleaning, Sterilization and Storage** of one navigation probe and one patient tracker, with silicone knob mat, fixation system and lid, stackable, external dimensions (w x d x h): 240 x 250 x 70 mm

Please note: The instruments displayed are not included in the rack.

Wire Tray for Suction Tubes and Instrument Tracker

The wire tray ensures hygienic and secure sterilization, cleaning and storage of the suction tube sets.



39502 NAV2

39502 NAV2 **Wire Tray for Cleaning, Sterilization and Storage** of three suction tubes and three instrument trackers, with silicone knob mat and small parts basket, stackable, external dimensions (w x d x h): 240 x 250 x 70 mm

Please note: The instruments displayed are not included in the rack.

DrillCut-X® II N Shaver Handpiece

Special Features:

- Powerful motor
- Oscillation mode for shaver blades, max. 10,000 rpm
- Rotation mode for sinus shavers, max. 12,000 rpm
- Straight suction channel and integrated irrigation
- Variable handle allows connection with various handpieces
- Suitable for use in washer and autoclavable at 134° C
- Quick coupling mechanism for exchange of working inserts
- Proven DrillCut-X® blade portfolios can be used
- Adaptation possibilities for Shaver Tracker 40 8001 22
- Allows shaver navigation when used with NAV1® PICO 40 8000 01



40 7120 55

- 40 7120 55 DrillCut-X® II N Shaver Handpiece**, with adaption possibilities for Shaver Tracker **40 8001 22**, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 8001 22

- 40 8001 22 Shaver Tracker, autoclavable**, with glass marker spheres incorporated, for use with DrillCut-X® II N Shaver Handpiece **40 7120 55** and navigation systems NPU **40 8000 01** and for NAV1® PICO **40 8100 01**

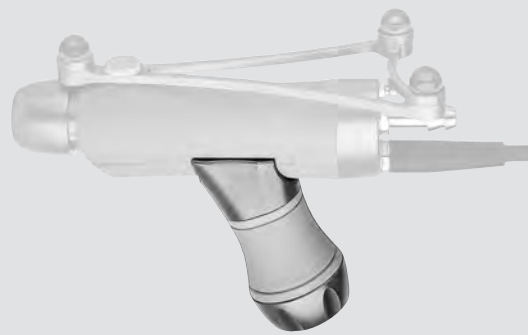
Handle for DrillCut-X® II Shaver Handpiece

for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

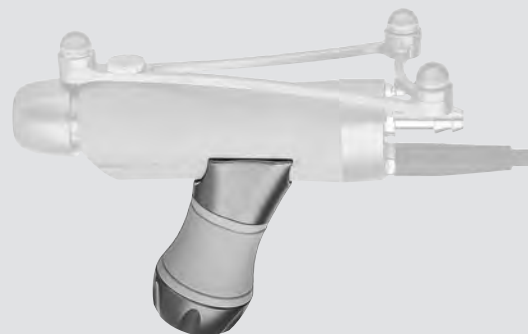
Special Features:

- Easy handle control allows individual adjustment
- Variable mounting options to DrillCut-X® II or DrillCut-X® II N shaver handpieces
- Easy fixation via rotary lock
- Suitable for use in washer and autoclavable at 134 °C

Positioning Handle 40 7120 90



40 7120 90



40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II **40 7120 50** and DrillCut-X® II N **40 7120 55**



MICROSCOPY

HD Imaging with Operating Microscopes

Direct Adaption



With the operating microscope the surgeon always has a good view of the operating field. Assistants, OR nurses and students, however, often experience poor video presentation, especially if FULL HD visualization is not available. KARL STORZ offers solutions that equip operating microscopes from leading manufacturers with FULL HD technology.

A standard connection between the camera and the microscope is the so-called direct adaption.

Here the H3-M COVIEW® microscope camera and the corresponding QUINTUS® TV adaptor are directly connected to the microscope via the C-MOUNT connection.



Direct adaption to the VARIO operating microscope from Carl Zeiss Meditec

HD Imaging with Operating Microscopes

System Overview

Camera and Camera Control Unit



+



IMAGE 1 HUB™ HD Camera Control Unit

H3-M HD Microscope Camera Head

TV Adaptors



or



or

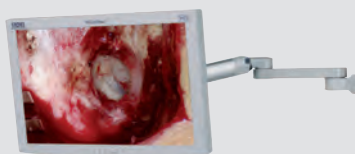


QUINTUS® TV Adaptor,
for CARL ZEISS MEDITEC

QUINTUS® TV Adaptor,
for LEICA Microsystems

QUINTUS® TV Adaptor,
for Möller Wedel

HD Monitor and ZeroWire



+



FULL HD WIDEVIEW Monitor
see catalog TELEPRESENCE

ZeroWire Video Transmission Set
see catalog TELEPRESENCE

Documentation System



KARL STORZ AIDA® compact NEO
advanced/standard (optional)
see catalog TELEPRESENCE

Accessories

Equipment Cart 29005 LAP
see catalog TELEPRESENCE

HD Imaging with Operating Microscopes

System Components



H3-M HD Microscope Camera Head

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22201011U1xx and IMAGE1 HD Camera Control Unit SCB 22202011U1xx



22 2200 54-3 / 22 2201 54-3

| | | |
|--------------|-------|--|
| 22 2200 54-3 | 50 Hz | IMAGE1 H3-M COVIEW® Three-Chip FULL HD Microscope Camera Head |
| | 60 Hz | |

max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with color systems **PAL/NTSC**

| | | |
|--------------|-------|--|
| 22 2201 54-3 | 60 Hz | IMAGE1 H3-M Three-Chip FULL HD Microscope Camera Head |
| | | |

max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with color system **NTSC**

Specifications:

| IMAGE1 FULL HD Camera Heads | H3-M |
|-----------------------------|---------------------|
| 50 Hz | 22 2200 54-3 (PAL) |
| 60 Hz | 22 2201 54-3 (NTSC) |
| Image sensor | 3x 1/3" CCD chip |
| Pixel output signal H x V | 1920 x 1080 |
| Dimensions (w x h x l) | 45 x 47 x 87 mm |
| Weight | 260 g |
| Optical interface | C-MOUNT connection |
| Min. sensitivity | F 1.9/1.4 Lux |
| Grip mechanism | C-MOUNT connection |
| Cable | detachable |
| Cable length | 900 cm |

IMAGE 1 HUB™ HD Camera Control Unit



222010 11U1 IMAGE 1 HUB™ HD Camera Control Unit SCB

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, with integrated **KARL STORZ-SCB** and integrated digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x Connecting Cable, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

222010 11U102 IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI Module

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated SDI (Serial Digital Interface) module, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x Connecting Cables, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

Components/Spare Parts see catalog TELEPRESENCE

HD Imaging with Operating Microscopes

System Components



IMAGE 1 HUB™ HD Camera Control Unit



222010 11U112 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI/ICM module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module) and SDI (Serial Digital Interface) modules, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

2x **Connecting Cable**, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

2x **KARL STORZ USB Stick**, 4 GB



222020 11U110 **IMAGE1 HD Camera Control Unit SCB, with ICM module**

for use with IMAGE1 FULL HD three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module), KARL STORZ-SCB** and digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x **Connecting Cable**, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US-English character set

2x **KARL STORZ USB Stick**, 4 GB

Components/Spare Parts see catalog TELEPRESENCE

HD Imaging with Operating Microscopes

System Components

QUINTUS® – High-Performance TV Adaptor for Operating Microscopes

The QUINTUS® TV adaptor provides a solution for an interface between the surgical microscope and the IMAGE 1 S™ H3-M COVIEW® microscope camera head from KARL STORZ.

The product features of QUINTUS® are easy to use, making it a flexible TV adaptor.



QUINTUS® stands for 5 main features:

- A **rotating C-MOUNT connection** at the QUINTUS® TV adaptor allows immediate adaption of the camera orientation during mounting.
- The **focus control** makes it possible to easily achieve parfocality.
- The **iris control** provides convenient and optimal adjustment of the depth of field.
- **Pan (X) function** enables adjustment of the horizontal position of the camera image.
- **Tilt (Y) function** enables adjustment of the vertical position of the camera image. The pan and tilt functions helps the surgeon to adjust the position of the camera image according to individual needs.

Focal length of the QUINTUS® TV adaptor:

The QUINTUS® TV adaptor for H3-M COVIEW® HD microscope camera head is available in 2 focal lengths (45 and 55 mm). This provides an optimal FULL HD image in 16:9.

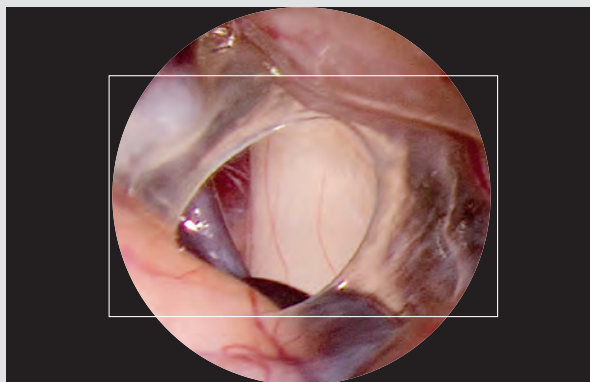


Fig. 1: Camera image detail with a focal length of 45 mm

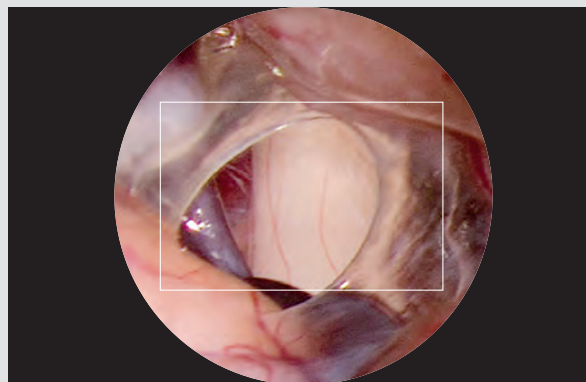


Fig. 2: Camera image detail with a focal length of 55 mm

HD Imaging with Operating Microscopes

System Components

QUINTUS® TV Adaptor



20 9230 45/20 9230 55

20 9230 45 **QUINTUS® Z 45 TV Adaptor**, for CARL ZEISS MEDITEC operating microscopes, f = 45 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW® camera heads

20 9230 55 **QUINTUS® Z 55 TV Adaptor**, for CARL ZEISS MEDITEC operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z as well as IMAGE1 S1 and S3 camera heads



20 9330 45/20 9330 55

20 9330 45 **QUINTUS® L 45 TV Adaptor**, for LEICA Microsystems operating microscopes, f = 45 mm, recommended for IMAGE1 H3-M/H3-M COVIEW® HD microscope camera heads

20 9330 55 **QUINTUS® L 55 TV Adaptor**, for LEICA Microsystems operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z and S1, S2 camera heads



20 9530 45/20 9530 55

20 9530 45 **QUINTUS® M 45 TV Adaptor**, for Möller-Wedel operating microscopes, f = 45 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW® camera heads

20 9530 55 **QUINTUS® M 55 TV Adaptor**, for Möller-Wedel operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z and S1, S2 camera heads



20 9250 00

20 9250 00 **Iris**, for ZEISS Pentero®, iris as a necessary extension between the QUINTUS® TV adaptor and the operating microscope ZEISS Pentero®



301513

301513 **Optical Beamsplitter 50/50**, for use with ZEISS operating microscope or colposcope

Note: Optical beamsplitters for other operating microscopes (i.e. LEICA or Möller-Wedel) are available directly from the manufacturers.

VITOM® 25

Visualization System for Microsurgery

STORZ
KARL STORZ — ENDOSKOPE



8-111

VITOM® 25

Visualization System for Microsurgery

VITOM® 25 from KARL STORZ represents a possibility of displaying open surgery with minimal access in an ergonomic manner.

VITOM® 25 is based on the HOPKINS® II rod lens system from KARL STORZ. With the help of a holding system, the VITOM® 25 is placed at a working distance of 25 – 75 cm above the surgical field. This gives the surgeon more room to work.

Due to its slim and compact design, the surgical field is not obstructed and even long instruments can be used. The VITOM® 25 system provides great depth of field, optimal magnification as well as good contrast and color reproduction, which are optimal requisites for FULL HD display and recording.

Enhanced imaging can be observed via a FULL HD monitor by the surgeon, the assistant as well as the entire OR team.

The VITOM® 25 is equipped with an integrated illumination, which can be supplemented with an optional illuminator.

The system allows the further use of existing units. A FULL HD endoscope imaging solution from KARL STORZ can also be used with the VITOM® 25 exoscope.

The VITOM® 25 system offers:

- FULL HD image quality
- Great depth of view
- Large working distance
- Ergonomic monitor work
- Compact design
- Use of existing KARL STORZ FULL HD endoscopy system possible



Prof. Dr. G. Strauß, IRDC, Leipzig, Germany

VITOM® 25

System Overview

Exoscope and Illumination



Camera and Display



Holding System



Documentation System

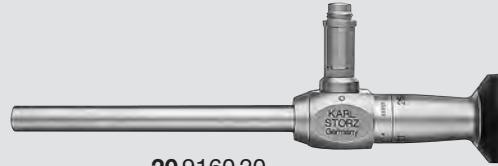


KARL STORZ AIDA® compact NEO advanced
see catalog TELEPRESENCE

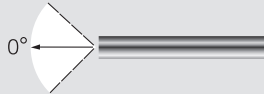
Accessories

Equipment Cart 29005 LAP
see catalog TELEPRESENCE

Diameter 10 mm, length 11 cm



20 9160 20



20 9160 20 **VITOM® 25 Telescope 0°**, VITOM® 25 HOPKINS® II straight forward telescope 0°, working distance 25 – 75 cm, diameter 10 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

Fiber Optic Light Cables 495 NE and NVB recommended



20 9180 20

20 9180 20 **VITOM® 25 Distance Rod**, length 25 cm

optional:



20 9170 00

20 9170 00 **VITOM® 25 Illuminator**, with 2 adjustable lenses and holding device for VITOM® 25 telescopes, **autoclavable**, for use with VITOM® 25 telescopes (20 9160 20 and equivalent models) and Y-Fiber Optic Light Cable 495 UV, not suitable for use with VITOM® telescopes of the 2nd generation with integrated illuminator

Y-Fiber Optic Light Cable 495 UV recommended

| | | |
|--|--------------------------------|------------------------------|
| Working distance: | 25 – 60 cm | |
| Depth of view at working distance of: Depth of view: | 25 cm approx. 3.5 cm | 50 cm approx. 7 cm |
| Field of view at working distance of: H3-Z camera zoom 1x H3-Z camera zoom 2x | 25 cm 5 cm 3.5 cm | 50 cm 10 cm 7 cm |
| Reproduction scale at working distance of: | 25 cm | 50 cm |
| 26" Monitor: H3-Z camera zoom 1x H3-Z camera zoom 2x | approx. 8x approx. 16x | approx. 4x approx. 8x |
| 42" Monitor: H3-Z camera zoom 1x H3-Z camera zoom 2x | approx. 14x approx. 28x | approx. 7x approx. 14x |
| 52" Monitor: H3-Z camera zoom 1x H3-Z camera zoom 2x | approx. 17x approx. 34x | approx. 8x approx. 16x |



Prof. Dr. G. Strauß, IRDC, Leipzig, Germany



495 NE



495 NVB

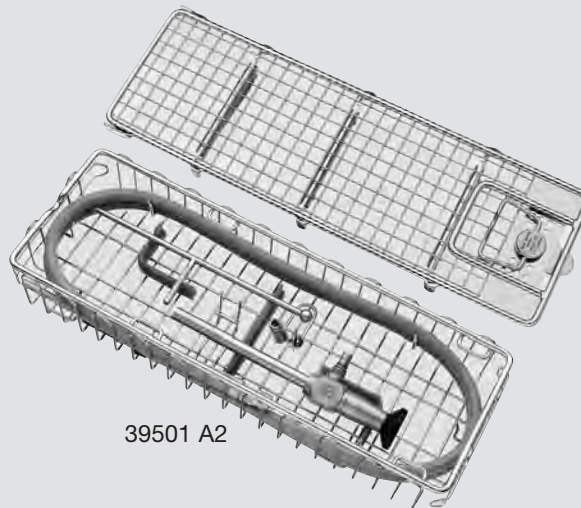


495 NVC

495 NE **Fiber Optic Light Cable,**
diameter 4.8 mm, length 300 cm

495 NVB **Fiber Optic Light Cable,** with 90° deflection to the
instrument, diameter 4.8 mm, length 300 cm

495 NVC **Fiber Optic Light Cable,** with 90° deflection
to the instrument, very narrow radius of
curvature, diameter 4.8 mm, length 300 cm



39501 A2

39501 A2 **Wire Tray for Cleaning, Sterilization and Storage**
of two rigid endoscopes and one light cable,
including holder for light post adaptors, silicone
telescope holders and lid, external dimensions
(w x d x h): 352 x 125 x 54 mm, for rigid endoscopes
up to diameter 10 mm and working length 20 cm

Cold Light Fountain XENON 300 SCB

Special Features:

- High light intensity due to 300 Watt Xenon lamp
- With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)



20 1331 01-1 Cold Light Fountain XENON 300 SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:

Mains Cord

Silicone Tubing Set, length 250 cm

SCB Connecting Cable, length 100 cm

Specifications:

| | |
|----------------------------|--|
| Lamp type | XENON 15 V, 300 Watt |
| Color temperature | 6000 K |
| Light outlets | 1 |
| Light intensity adjustment | continuously adjustable via a membrane keyboard or KARL STORZ Communication Bus Signal |

| | |
|----------------------|---|
| Dimensions w x h x d | 305 x 165 x 335 mm |
| Weight | 7.96 kg |
| Certified to | IEC 601-1 and UL 544, protection class 1/CF |

Spare Lamps and Spare Lamp Modules for Cold Light Fountains XENON and Components/Spare Parts
see catalog TELEPRESENCE



**222010 11U102 IMAGE 1 HUB™ HD Camera Control Unit SCB,
with SDI Module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated SDI (Serial Digital Interface) module, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x Connecting Cables, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

IMAGE1 FULL HD Camera Head for Endoscopy and Microscopy

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 222010 11U102



222200 55-3

NEW 222200 55-3 **50 Hz** **IMAGE1 H3-Z**
60 Hz **Three-Chip FULL HD Camera Head**

max. resolution 1920 x 1080 pixels, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length $f = 15 - 31$ mm (2x), 2 freely programmable camera head buttons, for use with color systems **PAL/NTSC**

Accessories




533 TVA

- 040112-40* **Camera Cover**, folded inside out, 13 x 242 cm, sterile, for single use, package of 25, for use with all standard endoscopic video camera systems
- 040112-160* **Same**, package of 160
- 533 TVA **Adaptor, autoclavable**, permits telescope changing under sterile conditions

Specifications:

| IMAGE1 FULL HD Camera Head | H3-Z |
|----------------------------|--|
| 50/60 Hz | 222200 55-3 |
| Image sensor | 3x 1/8" CCD chip |
| Pixel output signal H x V | 1920 x 1080 |
| Dimensions (w x h x d) | 39 x 49 x 114 mm |
| Weight | 270 g |
| Optical interface | Integrated Parfocal Zoom Lens, $f = 15-31$ mm (2x) |
| Min. sensitivity | F 1.4/1.17 Lux |
| Grip mechanism | standard eyepiece adaptor |
| Cable | non-detachable |
| Cable length | 300 cm |

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Optional Accessories for IMAGE 1 HUB™ HD see catalog TELEPRESENCE

KARL STORZ WIDEVIEW™ HD Monitors



9524 N/NO
9526 N/NO



9524 NB/NBO
9526 NB/NBO

| KARL STORZ HD Flat Screens | 24" | | 26" | |
|--|---------|----------|---------|----------|
| Desktop with pedestal | 9524 N | 9524 NO | 9526 N | 9526 NO |
| Wall-mounted with VESA 100-adaption | 9524 NB | 9524 NBO | 9526 NB | 9526 NBO |
| Inputs: | | | | |
| SDI | ● | ● | ● | ● |
| HD-SDI | ● | ● | ● | ● |
| RGBS | ● | ● | ● | ● |
| S-Video | ● | ● | ● | ● |
| Composite | ● | ● | ● | ● |
| SOG | ● | ● | ● | ● |
| DVI-D | ● | ● | ● | ● |
| Fiber Optic | — | ● | — | ● |
| VGA | ● | ● | ● | ● |
| Outputs: | | | | |
| SDI | ● | ● | ● | ● |
| HD-SDI | ● | ● | ● | ● |
| RGBS | ● | ● | ● | ● |
| S-Video | ● | ● | ● | ● |
| Composite | ● | ● | ● | ● |
| DVI-D | ● | ● | ● | ● |
| Displayable Signal Formats: | | | | |
| 4:3 | ● | ● | ● | ● |
| 5:4 | ● | ● | ● | ● |
| 16:9 | ● | ● | ● | ● |
| 16:10 | ● | ● | ● | ● |
| Picture-in-Picture | ● | ● | ● | ● |
| PAL/NTSC compatible | ● | ● | ● | ● |

The following accessories are included:

Mains Cord

External 24VDC Power Supply

Signal Cable

Pedestal (only 9524 N/NO and 9526 N/NO)

The systems can be operated with KARL STORZ-SCB units.

Video Connecting Cables see catalog TELEPRESENCE

ENDOCRANE® Holding System

The ENDOCRANE® holding system features a special piezoelectric locking joint mechanism.

This achieves positioning without misalignment as well as rapid locking (30 ms).

The system can be used with one hand and the large working radius of 50 cm allows variable use. A holding capacity of 20 N (2 kg) is possible in any position.

The holding arm features a fail-safe function which prevents a loss of retention force in the case of malfunction, i. e. power failure.

The system is compact and can be mounted directly on standard OR table rails.



28272 EH

ENDOCRANE® Holding System

Product Features

- **Safety**

The fail-safe function of the ENDOCRANE® prevents loss of retention force and ensures that the arm does not collapse in case of malfunction.

- **Speed**

The piezoelectric principle enables the joints of the ENDOCRANE® to close in 30 ms and ensures a holding force of 20 N in all positions.

- **Convenience**

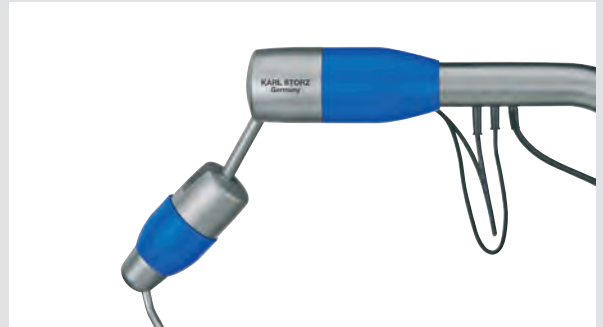
Single-handed use via the handle.

- **Flexibility**

ENDOCRANE® is equipped with the proven KARL STORZ rapid coupling, which ensures fast and secure mounting of various clamping jaws. The ENDOCRANE® handle also has a manual ball joint to allow convenient fine adjustment.

- **Hygiene**

The ENDOCRANE® holding arm is equipped with a sterile cover during use.





28272 EH

- 28272 EH **ENDOCRANE®**, piezoregulated holding arm, including stand including:
- Socket**, to clamp to the OR table
 - Control Unit**
 - Cover***, sterile, package of 25
 - Spring Balance**
 - Mains Cord**
 - Case**



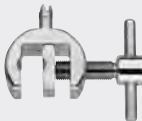





mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

A clamping jaw is required to complete the ENDOCRANE® holding system.
Clamping jaws for the ENDOCRANE® holding system see page 749
Components/Spare Parts see chapter 16


ENDOCRANE® Holding System

Accessories

| | | |
|---|------------|---|
|  | 28272 UGN | Clamping Jaw , metal, clamping range 16.5 up to 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed KARL STORZ HOPKINS® telescopes |
|  | 28272 UKN | Clamping Jaw , metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths |
|  | 28272 UL | Clamping Jaw , universal, clamping range 0 to 18 mm, with quick release coupling KSLOCK (male) |
|  | 28272 UF | Clamping Jaw , for use with all KARL STORZ polymer housing fiberscopes, with quick release coupling KSLOCK (male) |
|  | 28272 C | Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope. |
|  | 040146-25* | Cover , sterile, package of 25 |

Specifications:

| Arm: | | Control Unit: | |
|-----------------------------------|-------------------|-------------------------|-------------------|
| Maximum holding capacity | 2 kg/20 N | Power supply | 100 – 240 VAC |
| Working radius | 500 mm/19.7" | Mains frequency | 50/60 Hz |
| Swivel range | 360° | Weight | 5 kg/11.0 lbs |
| Maximum locking time | 30 ms (fail-safe) | Dimensions (w x h x d)) | 305 x 80 x 305 mm |
| Weight of holding arm and stand | 7 kg/15.4 lbs | | |
| Protection against electric shock | Type B | | |
| Type of protection | IP 40 | | |

8-111
*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Specifications subject to change.

POINT SETTER® Holding System

The POINT SETTER® holding system offers a solution for positioning endoscopes as well as cameras, retractors or other instruments.

The POINT SETTER® holding arm is mounted directly to the operating table.

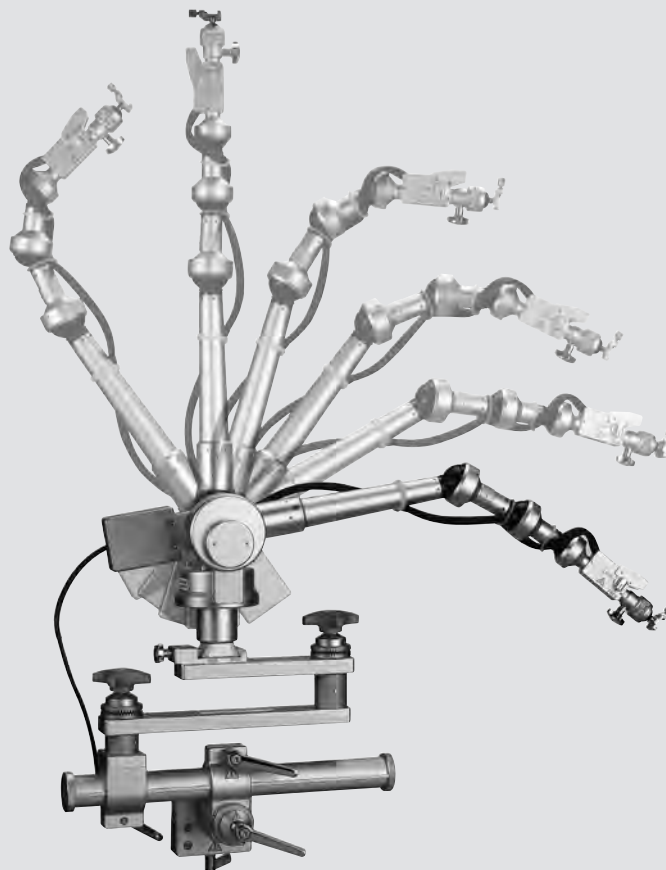
Furthermore, the POINT SETTER® holding arm allows convenient single-handed use. Pressing and holding the

control button on the handle releases the arm for quick and accurate positioning. The POINT SETTER® arm locks as soon as the button is released.

The flexible OR table adaptor and the arm length of 65 cm provides more work space combined with a holding capacity of 2 kg.

Special Features:

- The self-locking pneumatic system ensures that low, fluctuating or deficient gas pressure does not affect the stability of the arm.
- A press of a control button releases the arm immediately for quick positioning.
- Side guards prevent accidental activation of the POINT SETTER® arm.
- A locking mechanism offers additional safety.
- A manual ball joint at the tip of the handle enables convenient fine-tuning.
- Precise positioning without forward or backward motion.



POINT SETTER® Holding System

Product Features

- **Safety**

The POINT SETTER® arm operates according to a self-locking principle similar to a spring-loaded brake. Low, fluctuating or deficient gas pressure does not effect arm stability. The arm cannot collapse even if all pressure tubes are cut off.

- **Recoil-free Positioning**

The POINT SETTER® arm enables precise positioning.

- **Convenient Use**

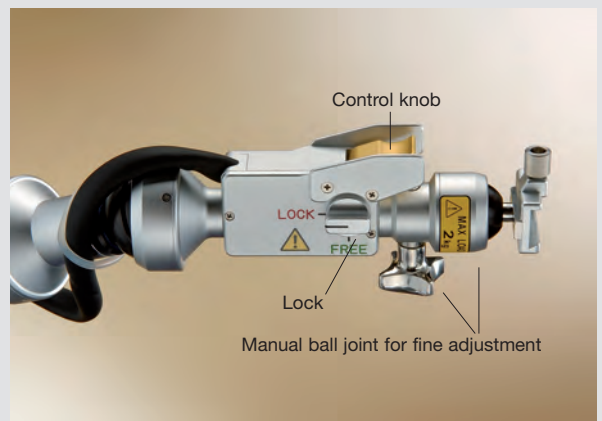
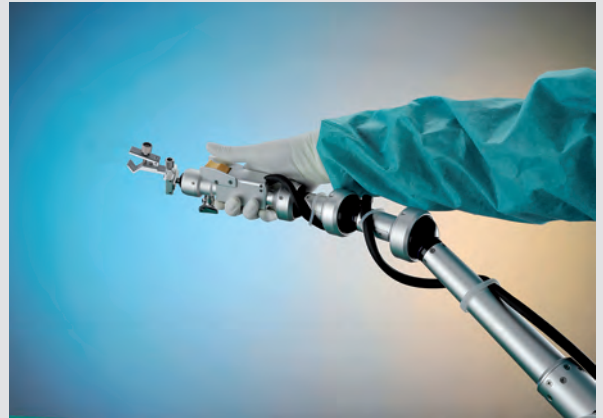
The POINT SETTER® arm was designed for single-handed use. Pressing the control button releases the arm immediately and enables quick positioning. The control button has an elevated side guard that prevents unintentional activation of the POINT SETTER® arm. A locking mechanism offers additional safety.

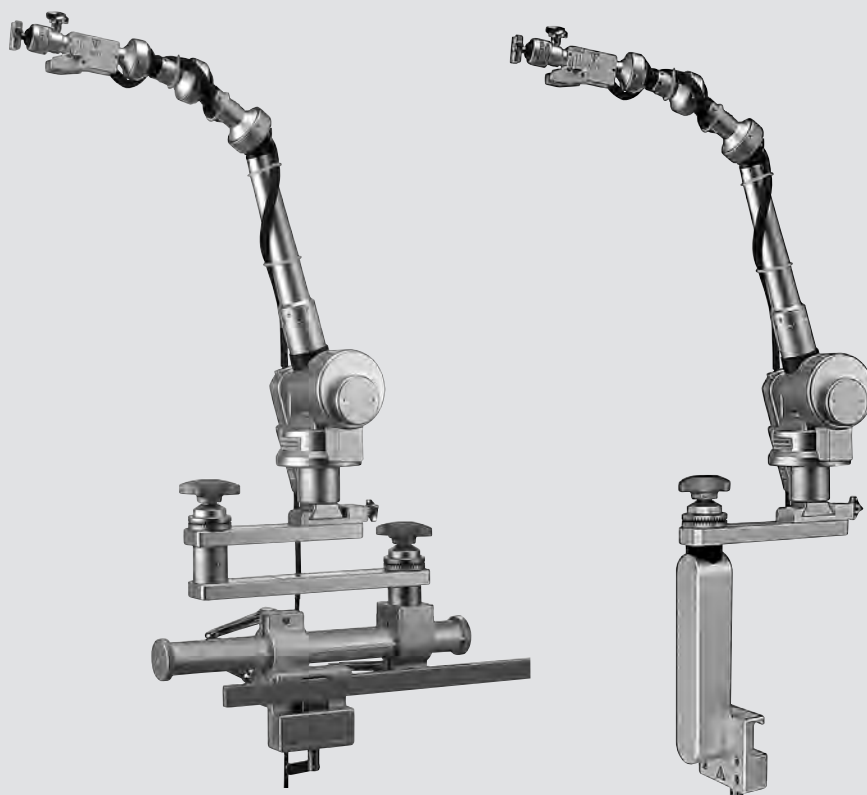
- **Manual Fine-tuning**

A manual ball joint at the tip of the handle enables convenient fine-tuning.

- **Robust Design**

The POINT SETTER® arm is very robust and has high torsional stiffness for low oscillation.





28172 WS

28172 WL

28172 WS **POINT SETTER®**, pneumatic holding system with OR table adaptor including:

Universal Adaptor, for use with telescopes diameter 10 – 15 mm

Universal Adaptor, for use with telescopes diameter 5 – 10 mm

Universal Adaptor, 10 – 15 mm, pediatric

Schrader Pressure Hose, length 600 cm, for USA and Asia

Case, for POINT SETTER® arm

Drape, for single use, sterile, package of 10

28172 WL **Same**, with OR table adaptor, **simplified version**

For faster installation and more straightforward handling of the POINT SETTER® holding arm, Set 28172 WL offers a lighter OR table adaptor with less setting options than the standard OR table adaptor.

Specifications subject to change.

POINT SETTER® Holding System

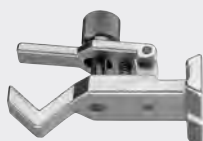
Spare Universal Adaptor, for complementing the POINT SETTER® System



28172 WV **Universal Adaptor**, 10 – 15 mm,
for use with POINT SETTER®



28172 WU **Universal Adaptor**, 5 – 10 mm,
for use with POINT SETTER®



28172 WX **Universal Adaptor**, 10 – 15 mm,
pediatric, for use with POINT SETTER®



28172 WR **Retractor Blade Holder**, for holding
spatulas and retractors in ENT and
NEURO, for use with POINT SETTER®

Alternative and Spare Connecting Tubes

| | | |
|---|----------|--|
|  | 28172 WA | Connecting Tube , for POINT SETTER®, Dräger, max. pressure 8 bar/115 psi, length 600 cm |
|  | 28172 WB | Connecting Tube , for POINT SETTER®, Dräger air motor, max. pressure 8 bar/115 psi, length 600 cm |
|  | 28172 WC | Connecting Tube , for POINT SETTER®, compressor, max. pressure 8 bar/115 psi, length 600 cm |
|  | 28172 WN | Connecting Tube , for POINT SETTER®, Schrader, max. pressure 8 bar/115 psi, length 600 cm |
|  | 28172 WO | Connecting Tube , for POINT SETTER®, with open end, max. pressure 8 bar/115 psi, length 600 cm |

Accessories and Expendable Materials

| | | |
|---|--------------|--|
|  | 20 0310 02 | Air Compressor , for POINT SETTER®, 0 – 8 bar, power supply 230 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg including: Fabric Reinforced Tube , for connecting CALCUSPLIT® SCB 27 6300 20 Connecting Tube , length 600 cm, for use with POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar |
| | 20 0310 02 C | Same , power supply 115 VAC, 50/60 Hz |
|  | 2761291 | Pressure Regulator , 7 bar, for POINT SETTER®, must be used for pressure > 8 bar on supply line |
|  | 28272 C | Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28172 UG and 28272 UGN as well as POINT SETTER® universal adaptor 10 – 15 mm |
|  | 28272 ECW | Spring Balance , loading capacity 25 N |
| | 28172 WD | Drape , for single use, sterile, package of 10 |

Components/Spare Parts see chapter 16

STOR-E® Transport Cart

for POINT SETTER® Holding Arm

With the aid of the transport cart, the POINT SETTER® holding system can be transported into the OR.

The components of the POINT SETTER® holding system are safely suspended from the cart.

Special Features:

- Mobile and safe storage of the POINT SETTER® holding arm
- POINT SETTER® is ready for immediate use in the OR
- Offers space for the POINT SETTER® with standard OR table adaptor, connecting tube, sterile covers and small parts



20 0200 59

- 20 0200 59 **STOR-E® Transport Cart**, for the POINT SETTER® holding arm including:
Attachment Set, for POINT SETTER®
Wire Basket

Components/Spare Parts see chapter 16



**COMPONENTS
SPARE PARTS**

Introduction

The chapter “Components / Spare Parts” contains detailed information on KARL STORZ instruments.

For easy location and reference, an index is available which lists the order number of the spare parts as well as those of the entire instrument, set or unit.

Hotline

Queries concerning products, exchange, maintenance and cleaning can be addressed to the KARL STORZ EP1 Hotline: 07461/708-980, from Monday to Thursday from 7-18 h and Friday from 7-17 h.

For example:

| Components / Spare Parts | | Catalog page |
|--------------------------|--|--|
| 095501 | Headlight “CLAR 73” , with straight plug | 11 |
| 095502 | Headlight “CLAR 73” , with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the light source | |
| 078730 | Headband , fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505 | |
| 078681 | Clip with Band , for attaching fiber optic light cable to OR clothing | |
| | | |
| Components / Spare Parts | | Catalog page |
| 078730 | Headband , for 094051 | 12 |
| | | |
| Spare Parts | | |
| | 078502 Screw Cap | |
| | 078503 Brake Cylinder , 3-part, for ball joint | |
| | | 078511 Forehead Cushion , with push-button lock |
| | | 310073 Protection Clip , for cold light cable, for fixing the light cable to the headband, 2 pcs |

Components/spare parts with corresponding order number of the instrument and reference to catalog page

Table of Contents

COMPONENTS / SPARE PARTS

HEADMIRRORS

| | |
|-----------------------------------|-------------|
| Reflectors, Headbands | SP 4-SP 5 |
| Headlights | SP 6-SP 11 |
| Headlights – LED Headlights | SP 12-SP 14 |
| Headlights – Headlights “CLAR 73” | SP 15-SP 17 |
| Headlights – Headlights KS60 | SP 18-SP 19 |
| Headlights – Headlight “CLAR 55” | SP 20-SP 21 |

OTOSCOPES

| | |
|---------------------|-------------|
| HOPKINS® Telescopes | SP 22-SP 23 |
| Tele-Otoscopes | SP 22 |

NASAL SPECULA

SP 24-SP 25

SEPTUM MORCELIZER

SP 25

SINOSCOPIES

| | |
|--------------------------------------|-------------|
| ENDOCAMELEON® ENT HOPKINS® Telescope | SP 26 |
| HOPKINS® II Telescopes | SP 26-SP 27 |

SUCTION AND IRRIGATION TUBES

| | |
|-------------------------------------|-------------|
| Suction Tubes | SP 28-SP 30 |
| Suction Elevator, Suction Raspatory | SP 29 |
| Suction and Irrigation Tubes | SP 31 |
| Irrigation and Suction Handles | SP 32 |

LARYNX INSTRUMENTS

SP 31

SIALENDOSCOPES

| | |
|---------------------------------------|-------------|
| Miniature Straight Forward Telescopes | SP 33-SP 34 |
|---------------------------------------|-------------|

FORCEPS AND PUNCHES

SP 35-SP 36

TONGUE BLADES AND MOUTH GAGS

SP 37-SP 39

STROBOSCOPE

SP 39

FLEXIBLE ENDOSCOPES

| | |
|---|-------|
| Rhino-Pharyngo-Laryngo-Fiberscope, Adaptor for Two-Way Stopcock | SP 40 |
| Suction Unit, Suction Valve | SP 41 |
| Broncho-Fiberscope | SP 42 |

TELE PACK X

SP 42

LARYNGOSCOPES

| | |
|-------------------------------------|-------|
| HOPKINS® and HOPKINS® II Telescopes | SP 43 |
|-------------------------------------|-------|

BRONCHOSCOPES

| | |
|------------------------------------|-------------|
| Universal Bronchoscopes for Adults | SP 46 |
| Bronchoscopes for Adults | SP 47-SP 48 |
| Bronchoscopes for Children | SP 50 |

OPTICAL INTUBATION TRACHEOSCOPE

SP 49

TONN STENT APPLICATOR

SP 49

ESOPHAGOSCOPES

| | |
|---|-------------|
| HOPKINS® Telescopes, Miniature Straight Forward Telescope | SP 51 |
| Esophagoscope Tubes, Handle | SP 52-SP 53 |

FOREIGN BODY BASKETS

SP 54

FREITAG STENT FORCEPS

SP 55

FLUORESCENCE

| | |
|---------------------|-------|
| HOPKINS® Telescopes | SP 56 |
|---------------------|-------|

MISCELLANEOUS

| | |
|---|-------------|
| VITOM® 25 Telescope | SP 57 |
| Transformers, Aspirator and Bronchus Irrigator | SP 58 |
| ENT Diagnosis Set | SP 59 |
| Pneumatic Adaptor, Rubber Bulb | SP 60 |
| Otoscope, Tuning Forks, Noise Apparatus | SP 61 |
| Battery Light Source LED for Endoscopes, Nystagmus Spectacles | SP 62 |
| Diagnostic Tube, Powder Blower | SP 63 |
| Ear Knives | SP 64 |
| Ear Snares | SP 65 |
| Metal Mallets | SP 66 |
| Dura Retractor, Glomus Retractor | SP 67 |
| Wire Bending Die, Ventilation Drainage Tube Inserter, Cartilage Cutting Block | SP 68 |
| Metal Tray, Metal Cases, MiniSet Container | SP 69 |
| Metal Tray, Instrument Racks | SP 70 |
| TAKE APART® Bipolar Forceps | SP 71 |
| Nasal Atomizers | SP 72 |
| Nasal Snares | SP 73 |
| Retractor, LASER Application Instrument | SP 74 |
| Nasal Retractor, Bone Crusher | SP 75 |
| Caliper, Surgical Handle | SP 76 |
| Rotating Clamp and Flexible Tension Arm | SP 77 |
| Uvula Retractor, Chest Supports, Tonsil Snare | SP 78 |
| Tonsil Snares | SP 79 |
| High Pressure Syringes | SP 80 |
| Battery Handles | SP 81 |
| Rubber Insufflation Bulb | SP 82 |
| Laryngoscope Holders and Chest Supports | SP 82-SP 83 |
| Support Table, Chest Support | SP 84 |
| Micro Saws | SP 85 |
| SCHMÄL CARTCUT® Cartilage Cutter | SP 90 |
| STAMMBERGER-SACHSE Intranasal Drill | SP 90 |
| BOWMAN Lachrymal Probe, Training Model | SP 90 |
| Holding Systems | SP 91-SP 92 |
| KARL STORZ NAV1® PICO | SP 93 |

MOTOR SYSTEMS

| | |
|--|-------|
| UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO | SP 86 |
| Universal Spray | SP 86 |
| Suction Shaver Blades, Cleaning Adaptor | SP 87 |
| INTRA Drill Handpieces | SP 88 |
| High-Speed Handpieces | SP 89 |

SUCTION AND IRRIGATION SYSTEMS

| | |
|-------------------------|-------|
| UNIMAT® 30 | SP 44 |
| UNIMAT® 30 – Aspirators | SP 45 |
| CLEARVISION® II | SP 94 |

HIGH FREQUENCY SURGERY UNITS

| | |
|------------------------|-------------|
| AUTOCON® II 400 SCB | SP 95 |
| AUTOCON® 200 | SP 95-SP 96 |
| AUTOCON® 50 | SP 97 |
| Surgery Electrodes Set | SP 98 |

Numerical Index

COMPONENTS / SPARE PARTS

| Product | Page | Product | Page | Product | Page |
|-----------|---|-----------|--------------------|----------|--------------|
| 031131-03 | SP 86 | 094124 | SP 13 | 10337 TA | SP 49 |
| 040146-25 | SP 91 | 094125 A | SP 13 | 10337 TB | SP 49 |
| 074090 | SP 4 | 094127 | SP 13 | 10338 N | SP 50 |
| 074091 | SP 4 | 094129 | SP 13 | 10338 P | SP 50 |
| 074092 | SP 4, SP 5 | 094130 | SP 13 | 10338 S | SP 50 |
| 074093 | SP 4, SP 5 | 094301 | SP 10 | 10381 A | SP 28 |
| 074094 | SP 4, SP 5 | 094302 | SP 10 | 10381 AE | SP 28 |
| 074095 | SP 4 | 094305 | SP 10 | 10381 AK | SP 28 |
| 075090 | SP 4 | 094306 | SP 10 | 10381 AL | SP 28 |
| 075095 | SP 4 | 094320 | SP 10 | 10381 B | SP 28 |
| 075096 | SP 4 | 094322 | SP 10 | 10382 A | SP 28 |
| 075097 | SP 4 | 094325 | SP 11 | 10382 AE | SP 28 |
| 076090 | SP 5 | 094326 | SP 11 | 10382 AK | SP 28 |
| 076091 | SP 5 | 094330 | SP 11 | 10382 AM | SP 28 |
| 076095 | SP 5 | 094332 | SP 11 | 10382 B | SP 28 |
| 077090 | SP 5 | 095501 | SP 2, SP 15 | 10386 AE | SP 54 |
| 077095 | SP 5 | 095502 | SP 2, SP 15, SP 16 | 10386 AL | SP 54 |
| 077096 | SP 5 | 095503 | SP 16 | 10386 B | SP 54 |
| 078502 | SP 2, SP 7, SP 17 | 095505 | SP 15 | 10386 BE | SP 54 |
| 078503 | SP 2, SP 7, SP 17 | 095506 | SP 15, SP 16 | 10386 VH | SP 54 |
| 078511 | SP 7, SP 8, SP 9, SP 11, SP 14, SP 17, SP 19 | 095507 | SP 16 | 10432 E | SP 45 |
| 078681 | SP 6, SP 8, SP 9, SP 10, SP 11, SP 15, SP 18 | 10005 AA | SP 43 | 10432 G | SP 45 |
| 078730 | SP 6, SP 7, SP 15, SP 17 | 10005 BA | SP 43 | 10432 N | SP 45 |
| 078740 | SP 10, SP 11 | 10017 AA | SP 48 | 10432 T | SP 45 |
| 078760 | SP 12, SP 13, SP 14 | 10018 AA | SP 48 | 10434 | SP 58 |
| 084508 | SP 7 | 10020 ATA | SP 51 | 10455 A | SP 58, SP 72 |
| 087200 | SP 20 | 10023 ABA | SP 48 | 10510 AA | SP 55 |
| 087201 | SP 20, SP 21 | 10030 AA | SP 51 | 10510 B | SP 55 |
| 087202 | SP 21 | 10101 FA | SP 47, SP 53 | 10510 CA | SP 55 |
| 087203 | SP 21 | 10101 HA | SP 48 | 10510 N | SP 55 |
| 087204 | SP 21 | 102201 B | SP 58 | 10520 | SP 49 |
| 087205 | SP 21 | 102201 C | SP 58 | 10521 | SP 49 |
| 087206 | SP 21 | 10314 BN | SP 47 | 10522 | SP 49 |
| 087284 | SP 20, SP 21 | 10314 P | SP 47 | 10523 | SP 49 |
| 087290 | SP 20 | 10315 N | SP 46 | 10524 | SP 49 |
| 087294 | SP 20 | 10315 P | SP 46 | 10525 | SP 49 |
| 087295 | SP 20 | 10317 EF | SP 48 | 10526 | SP 49 |
| 087296 | SP 20 | 10317 EL | SP 48 | 10530 | SP 49 |
| 087297 | SP 20 | 10318 B | SP 46 | 10531 | SP 49 |
| 094005 | SP 7 | 10318 C | SP 46 | 10532 | SP 49 |
| 094051 | SP 6 | 10318 D | SP 46 | 10533 | SP 49 |
| 094053 | SP 6, SP 7 | 10318 L | SP 46 | 10534 | SP 49 |
| 094055 | SP 6 | 10318 S | SP 46 | 10535 | SP 49 |
| 094100 | SP 12 | 10320 AA | SP 48 | 10536 | SP 49 |
| 094103 | SP 12, SP 13 | 10320 AP | SP 56 | 10540 | SP 49 |
| 094104 | SP 12, SP 13 | 10320 BA | SP 48 | 10542 | SP 49 |
| 094105 | SP 13 | 10320 BP | SP 56 | 10544 | SP 49 |
| 094108 | SP 12 | 10320 DA | SP 48 | 10545 | SP 49 |
| 094108 B | SP 12, SP 62 | 10320 DP | SP 56 | 10546 | SP 49 |
| 094109 | SP 14 | 10324 AA | SP 51 | 10550 | SP 49 |
| 094110 | SP 12 | 10324 BA | SP 48 | 10552 | SP 49 |
| 094120 | SP 13 | 10328 AA | SP 48 | 10554 | SP 49 |
| | | 10337 T | SP 49 | 10555 | SP 49 |

Numerical Index

COMPONENTS / SPARE PARTS

| Product | Page | Product | Page | Product | Page |
|----------|--------------|----------|--------------|-------------|--------------|
| 10556 | SP 49 | 12030 A | SP 53 | 155201 | SP 64 |
| 1069400 | SP 44 | 12030 AL | SP 53 | 164000 | SP 65 |
| 1069500 | SP 44 | 12030 B | SP 53 | 164001 | SP 65 |
| 108210 | SP 20, SP 21 | 12030 C | SP 53 | 164002 | SP 65 |
| 108211 | SP 21 | 12030 F | SP 53 | 164003 | SP 65 |
| 108213 | SP 21 | 12030 G | SP 53 | 164004 | SP 65 |
| 108214 | SP 21 | 12070 | SP 53 | 164100 | SP 65 |
| 108222 | SP 21 | 121300 | SP 61 | 164101 | SP 65 |
| 11001 BI | SP 42 | 121302 | SP 61 | 164102 | SP 65 |
| 11001 BN | SP 42 | 121303 | SP 61 | 164103 | SP 65 |
| 11001 RD | SP 40 | 121304 | SP 61 | 164800 | SP 65 |
| 11001 UD | SP 40 | 121305 | SP 61 | 174700 | SP 66 |
| 11002 BD | SP 42 | 121306 | SP 61, SP 62 | 174701 | SP 66 |
| 11003 BC | SP 42 | 121306 P | SP 12, SP 62 | 174800 | SP 66 |
| 11004 BC | SP 42 | 121310 | SP 61 | 174801 | SP 66 |
| 11004 BI | SP 42 | 121311 | SP 61 | 20014230 | SP 94 |
| 11005 BC | SP 42 | 121320 | SP 61 | 20016630 | SP 86 |
| 11009 BC | SP 42 | 1215 AA | SP 22 | 20020050 | SP 92 |
| 11009 BI | SP 42 | 1216 AA | SP 23 | 20020053 | SP 92 |
| 11101 RP | SP 40 | 1218 AA | SP 22 | 20020059 | SP 92 |
| 11101 SK | SP 40 | 1218 BA | SP 22 | 20031002 | SP 92 |
| 11101 SP | SP 40 | 1230 AA | SP 23 | 20031002 C | SP 92 |
| 11301 D4 | SP 62 | 1230 BA | SP 23 | 20031020 | SP 92 |
| 11572 A | SP 33 | 1232 AA | SP 22 | 20031020 C | SP 92 |
| 11573 A | SP 33 | 1232 BA | SP 22 | 20040240US | SP 42 |
| 11574 A | SP 33 | 125501 | SP 61 | 20040280 | SP 42 |
| 11575 A | SP 33 | 125601 | SP 61 | 20045001-EN | SP 42 |
| 11576 A | SP 34 | 126000 | SP 61 | 20090170 | SP 86, SP 95 |
| 11576 TJ | SP 35 | 126001 | SP 61 | 2026890 | SP 58 |
| 11576 ZJ | SP 35 | 126100 | SP 59, SP 61 | 2027290 | SP 58 |
| 11577 A | SP 34 | 130000 | SP 61 | 2027390 | SP 94 |
| 11581 A | SP 33 | 130001 | SP 61 | 2027590 | SP 86, SP 97 |
| 11582 A | SP 33 | 138700 | SP 59 | 2027690 | SP 95, SP 96 |
| 11583 A | SP 33 | 138805 | SP 62 | 2028090 | SP 96 |
| 11583 TJ | SP 35 | 138806 | SP 62 | 20330088 | SP 94 |
| 11583 ZJ | SP 35 | 138807 | SP 62 | 204405 | SP 28 |
| 11900 AE | SP 41 | 138905 | SP 62 | 204405 E | SP 28 |
| 11900 AS | SP 41 | 138964 | SP 62 | 204407 | SP 28 |
| 11900 AV | SP 41 | 13991 DA | SP 41 | 204407 E | SP 28 |
| 11900 AZ | SP 41 | 148500 | SP 63 | 204409 | SP 28 |
| 11900 VA | SP 41 | 148608 | SP 63 | 204409 E | SP 28 |
| 119500 | SP 60 | 148609 | SP 63 | 204806 | SP 29 |
| 119501 | SP 60 | 148610 | SP 63 | 204806 E | SP 29 |
| 119650 | SP 60 | 148710 | SP 63 | 204808 | SP 29 |
| 119651 | SP 60 | 148720 | SP 63 | 204808 E | SP 29 |
| 12015 AA | SP 51 | 148722 | SP 63 | 204809 | SP 29 |
| 12016 E | SP 52 | 148725 | SP 63 | 204809 E | SP 29 |
| 12016 EF | SP 52 | 149307 | SP 63 | 204810 | SP 29 |
| 12016 EH | SP 52 | 149320 | SP 63 | 204810 E | SP 29 |
| 12016 EM | SP 52 | 149324 | SP 63, SP 72 | 204812 | SP 29 |
| 12016 F | SP 52 | 155000 | SP 64 | 204812 E | SP 29 |
| 12016 FF | SP 52 | 155001 | SP 64 | 204815 | SP 29 |
| 12016 FM | SP 52 | 155200 | SP 64 | 204815 E | SP 29 |

Numerical Index

COMPONENTS / SPARE PARTS

| Product | Page | Product | Page | Product | Page |
|--------------|-------|-----------|-------|-----------|---------------------|
| 20520501 | SP 97 | 231028 | SP 68 | 25320083 | SP 44 |
| 20520520 | SP 97 | 231030 | SP 68 | 25320084 | SP 44 |
| 20522501 | SP 95 | 231032 | SP 68 | 25320085 | SP 44 |
| 20522501 C | SP 96 | 231035 | SP 68 | 254000 | SP 85 |
| 20522501-010 | SP 96 | 233250 | SP 74 | 254020 | SP 85 |
| 20522501C010 | SP 96 | 233250 A | SP 74 | 254021 | SP 85 |
| 20522520 | SP 95 | 233250 B | SP 74 | 254100 | SP 85 |
| 20522520 C | SP 96 | 239000 | SP 69 | 254200 | SP 85 |
| 20522520-010 | SP 96 | 239001 | SP 69 | 254300 | SP 85 |
| 20522520C010 | SP 96 | 239075 | SP 69 | 26284 HM | SP 71 |
| 20530008 | SP 98 | 239076 | SP 69 | 26520031 | SP 98 |
| 20530031 | SP 98 | 239728 | SP 70 | 26520032 | SP 98 |
| 20535201-111 | SP 95 | 239728 F | SP 69 | 26520033 | SP 98 |
| 20535201-112 | SP 95 | 239728 FA | SP 69 | 26520034 | SP 98 |
| 20535201-113 | SP 95 | 239728 FE | SP 69 | 26520035 | SP 98 |
| 20535201-114 | SP 95 | 239728-1 | SP 70 | 26520036 | SP 98 |
| 20535201-115 | SP 95 | 239728-2 | SP 70 | 26520037 | SP 98 |
| 20535201-116 | SP 95 | 252510 | SP 88 | 26520038 | SP 98 |
| 20535220-111 | SP 95 | 252511 | SP 88 | 26520039 | SP 98 |
| 20535220-112 | SP 95 | 252512 | SP 88 | 26520040 | SP 98 |
| 20535220-113 | SP 95 | 252570 | SP 88 | 26520041 | SP 98 |
| 20535220-114 | SP 95 | 252571 | SP 88 | 26520042 | SP 98 |
| 20535220-115 | SP 95 | 252572 | SP 88 | 27021 Y | SP 48 |
| 20535220-116 | SP 95 | 252573 | SP 88 | 27200 | SP 80 |
| 2054090 | SP 58 | 252574 | SP 88 | 27200 B | SP 80 |
| 20711621 | SP 86 | 252575 | SP 88 | 27200 P | SP 80 |
| 20711640 | SP 86 | 252590 | SP 88 | 27200 S | SP 80 |
| 20711680 | SP 86 | 252591 | SP 88 | 27202 Q | SP 80 |
| 20780020 | SP 91 | 252592 | SP 88 | 2723091 | SP 94 |
| 20916020 | SP 57 | 252610 | SP 89 | 2724190 | SP 94 |
| 2107890 | SP 86 | 252611 | SP 89 | 2727291 | SP 94 |
| 219800 | SP 67 | 252612 | SP 89 | 27550 A | SP 48, SP 74 |
| 219801 | SP 67 | 252614 | SP 89 | 27550 C | SP 46, SP 50 |
| 219802 | SP 67 | 252615 | SP 89 | 27630022 | SP 92 |
| 219803 | SP 67 | 252616 | SP 89 | 27809 | SP 95, SP 96, SP 97 |
| 219804 | SP 67 | 252617 | SP 89 | 280053 | SP 86 |
| 219805 | SP 67 | 252660 | SP 89 | 280053 B | SP 86 |
| 219806 | SP 67 | 252661 | SP 89 | 280053 C | SP 86 |
| 219900 | SP 67 | 252662 | SP 89 | 28172 HG | SP 91 |
| 219901 | SP 67 | 252663 | SP 89 | 28172 HR | SP 91 |
| 219902 | SP 67 | 252680 | SP 89 | 28172 WC | SP 92 |
| 219903 | SP 67 | 252681 | SP 89 | 28272 EC | SP 91 |
| 219904 | SP 67 | 252682 | SP 89 | 28272 ECS | SP 91 |
| 227800 | SP 68 | 252690 | SP 89 | 28272 ECW | SP 91 |
| 227801 | SP 68 | 252691 | SP 89 | 28272 HB | SP 91 |
| 227802 | SP 68 | 252692 | SP 89 | 28272 RKB | SP 91 |
| 230000 | SP 68 | 25320001 | SP 44 | 28272 UKN | SP 91 |
| 230001 | SP 68 | 25320001C | SP 44 | 29005 AK | SP 92 |
| 230002 | SP 68 | 25320020 | SP 44 | 30526 Q | SP 55 |
| 231020 | SP 68 | 25320020C | SP 44 | 310010 | SP 8 |
| 231022 | SP 68 | 25320080 | SP 44 | 310011 | SP 8, SP 9 |
| 231024 | SP 68 | 25320081 | SP 44 | 310015 | SP 8 |
| 231026 | SP 68 | 25320082 | SP 44 | 310016 | SP 8, SP 9 |

Numerical Index

COMPONENTS / SPARE PARTS

| Product | Page | Product | Page | Product | Page |
|-----------|--|------------|-------|------------|---|
| 310020 | SP 9 | 403855 | SP 24 | 41204 KKB | SP 87 |
| 310025 | SP 9 | 403865 | SP 24 | 41204 KKBA | SP 87 |
| 310060 | SP 18 | 403875 | SP 24 | 41204 KKF | SP 87 |
| 310061 | SP 18 | 403890 | SP 24 | 41204 KKFA | SP 87 |
| 310063 | SP 18, SP 19 | 403950 | SP 24 | 436610 | SP 72 |
| 310065 | SP 19 | 403975 | SP 24 | 437000 | SP 58 |
| 310070 | SP 18, SP 19 | 404037 | SP 25 | 437520 | SP 72 |
| 310073 | SP 7, SP 9, SP 14, SP 17, SP 19 | 404040 | SP 25 | 437600 | SP 72 |
| 310075 | SP 8 | 404055 | SP 25 | 437601 | SP 72 |
| 310076 | SP 9 | 404075 | SP 25 | 440000 | SP 73 |
| 3430890 | SP 47, SP 48, SP 53 | 404090 | SP 25 | 440001 | SP 73 |
| 39219 XF | SP 70 | 40701401 | SP 86 | 440002 | SP 73 |
| 39219 XFB | SP 70 | 40701420 | SP 86 | 440003 | SP 73 |
| 39219 XFS | SP 70 | 40701601-1 | SP 86 | 440004 | SP 73 |
| 39219 XFV | SP 70 | 40701620-1 | SP 86 | 441510 | SP 73 |
| 39299 SF | SP 70 | 40800001 | SP 93 | 441511 | SP 73 |
| 39760 A | SP 69 | 40800020 | SP 93 | 441512 | SP 73 |
| 39780 A | SP 69 | 40800028 | SP 93 | 443500 | SP 73 |
| 39780 AB | SP 69 | 40800030 | SP 93 | 443504 | SP 73 |
| 39785 AA | SP 69 | 40800040 | SP 93 | 460001 | SP 35 |
| 400 A | SP 39, SP 44, SP 58, SP 86, SP 91, SP 93, SP 94, SP 95, SP 96, SP 97 | 40800050 | SP 93 | 460001 E | SP 35 |
| 400 B | SP 42 | 40800060 | SP 93 | 460501 | SP 35 |
| 400 F | SP 42 | 40800072 | SP 93 | 461000 | SP 74 |
| 400500 | SP 24 | 40800074 | SP 93 | 462010 | SP 71 |
| 400502 | SP 24 | 40800076 | SP 93 | 462011 | SP 71 |
| 40150001 | SP 39 | 40800080 | SP 93 | 462020 | SP 71 |
| 40150020 | SP 39 | 40800087 | SP 93 | 462021 | SP 71 |
| 40160021 | SP 39 | 40800090 | SP 93 | 462022 | SP 71 |
| 40160030 | SP 39 | 40800110 | SP 93 | 462023 | SP 71 |
| 40160032 | SP 39 | 40924 | SP 82 | 469600 | SP 25 |
| 40160101 | SP 39 | 40924 B | SP 82 | 469602 | SP 25 |
| 40160120 | SP 39 | 40924 S | SP 82 | 474001 | SP 29 |
| 403340 | SP 24 | 41200 RA | SP 87 | 474001 E | SP 29 |
| 40334101 | SP 94 | 41200 RA1 | SP 87 | 479800 | SP 29 |
| 40334120 | SP 94 | 41200 RA2 | SP 87 | 479800 E | SP 29 |
| 40334140 | SP 94 | 41201 GN | SP 87 | 488038 | SP 25 |
| 40334180 | SP 94 | 41201 KK | SP 87 | 488084 | SP 30 |
| 403355 | SP 24 | 41201 KKSA | SP 87 | 488084 E | SP 30 |
| 403375 | SP 24 | 41201 KKSB | SP 87 | 488085 | SP 30 |
| 403390 | SP 24 | 41201 KN | SP 87 | 488085 E | SP 30 |
| 403440 | SP 24 | 41201 KSA | SP 87 | 488086 | SP 30 |
| 403441 | SP 24 | 41201 LN | SP 87 | 488086 E | SP 30 |
| 403455 | SP 24 | 41201 LSA | SP 87 | 495 F | SP 22, SP 23, SP 25, SP 26, SP 27, SP 33, SP 34, SP 40, SP 42, SP 43, SP 46, SP 48, SP 51, SP 52, SP 56, SP 57, SP 75 |
| 403475 | SP 24 | 41201 SN | SP 87 | | |
| 403490 | SP 24 | 41202 KN | SP 87 | | |
| 403540 | SP 24 | 41203 GNB | SP 87 | | |
| 403555 | SP 24 | 41203 GNF | SP 87 | | |
| 403565 | SP 24 | 41203 KKB | SP 87 | | |
| 403575 | SP 24 | 41203 KKBA | SP 87 | | |
| 403590 | SP 24 | 41203 KKF | SP 87 | | |
| 403835 | SP 24 | 41203 KKFA | SP 87 | | |
| | | 41203 KNB | SP 87 | | |
| | | 41203 KNF | SP 87 | | |

Numerical Index

COMPONENTS / SPARE PARTS

| Product | Page | Product | Page | Product | Page |
|----------|---|-----------|--------------|-----------|-------|
| 495 G | SP 22, SP 23, SP 25, SP 26, SP 27, SP 33, SP 34, SP 40, SP 42, SP 43, SP 46, SP 48, SP 51, SP 52, SP 56, SP 57, SP 75 | 6377091 | SP 40, SP 52 | 7230 EA | SP 27 |
| 495 NAS | SP 6 | 6407991 | SP 77 | 7230 FA | SP 27 |
| 495 NWMS | SP 6 | 6408091 | SP 77 | 7230 FLA | SP 27 |
| 495 NY | SP 18 | 648500 | SP 36 | 7230 FP | SP 26 |
| 495 NYW | SP 18 | 648502 | SP 36 | 7230 FVA | SP 27 |
| 496500 | SP 76 | 648503 | SP 36 | 7230 FWA | SP 27 |
| 496501 | SP 76 | 649182 | SP 31 | 723017 | SP 77 |
| 506496 | SP 75 | 649182 E | SP 31 | 723018 | SP 77 |
| 506497 | SP 75 | 649183 | SP 31 | 723018 Z | SP 77 |
| 523900 | SP 75 | 649183 E | SP 31 | 723128 | SP 90 |
| 523901 | SP 75 | 649184 | SP 31 | 723128 A | SP 90 |
| 523950 | SP 90 | 649184 E | SP 31 | 723128 B | SP 90 |
| 523951 | SP 90 | 649185 | SP 31 | 723128 C | SP 90 |
| 523952 | SP 90 | 649185 E | SP 31 | 723128 D | SP 90 |
| 523954 | SP 90 | 651503 | SP 36 | 723128 E | SP 90 |
| 523956 | SP 90 | 651504 | SP 36 | 723128 F | SP 90 |
| 523958 | SP 90 | 6573890 | SP 53 | 723128 G | SP 90 |
| 525520 | SP 76 | 660000 | SP 90 | 723128 H | SP 90 |
| 525523 | SP 76 | 660000 A | SP 90 | 723128 K | SP 90 |
| 525525 | SP 76 | 660000 T | SP 90 | 7235 AWA | SP 27 |
| 529205 | SP 30 | 660074 SF | SP 90 | 723620 | SP 32 |
| 529207 | SP 30 | 660074 SG | SP 90 | 723620 DV | SP 32 |
| 529207 E | SP 30 | 660074 SK | SP 90 | 723620 H | SP 32 |
| 529209 | SP 30 | 6867791 | SP 74 | 723621 | SP 32 |
| 529209 E | SP 30 | 6871191 | SP 52 | 723621 SV | SP 32 |
| 529305 | SP 30 | 6901790 | SP 54 | 723622 | SP 32 |
| 529307 | SP 30 | 6901890 | SP 54 | 723622 H | SP 32 |
| 529309 | SP 30 | 6927691 | SP 40 | 723623 | SP 32 |
| 5501135 | SP 38 | 6988190 | SP 53 | 7249291 | SP 32 |
| 5501435 | SP 37 | 7207 AA | SP 27 | 725000 | SP 78 |
| 5904998 | SP 35 | 7207 BA | SP 27 | 725001 | SP 78 |
| 5915702 | SP 7 | 7209 BA | SP 27 | 7322990 | SP 52 |
| 5920820 | SP 87 | 7220 AA | SP 27 | 7362691 | SP 37 |
| 5922410 | SP 36 | 7220 BA | SP 27 | 740116 | SP 59 |
| 5925300 | SP 41 | 7220 CA | SP 27 | 743500 | SP 37 |
| 5932200 | SP 80 | 7220 FA | SP 27 | 743501 | SP 37 |
| 5934602 | SP 77 | 7220 FVA | SP 27 | 743502 | SP 37 |
| 5963402 | SP 35 | 7229 AA | SP 27 | 743503 | SP 37 |
| 5970502 | SP 31 | 7229 BA | SP 27 | 743504 | SP 37 |
| 5984302 | SP 82, SP 83 | 7229 CA | SP 27 | 743504 V | SP 37 |
| 600005 | SP 60 | 7229 FA | SP 27 | 743505 | SP 37 |
| 6011590 | SP 71 | 7230 AA | SP 27 | 743506 | SP 37 |
| 6127390 | SP 50, SP 60 | 7230 AE | SP 26 | 743910 | SP 37 |
| 6127490 | SP 46, SP 47 | 7230 AP | SP 26 | 743915 | SP 37 |
| 6127590 | SP 46, SP 47 | 7230 AWA | SP 27 | 743920 | SP 37 |
| 6299991 | SP 77 | 7230 BA | SP 27 | 743925 | SP 37 |
| 63 | SP 61 | 7230 BP | SP 26 | 743930 | SP 37 |
| 63 A | SP 61 | 7230 BVA | SP 27 | 743935 | SP 37 |
| 634840 | SP 90 | 7230 BWA | SP 27 | 743940 | SP 37 |
| 6376990 | SP 40 | 7230 CA | SP 27 | 744500 | SP 38 |
| | | 7230 CVA | SP 27 | 744501 | SP 38 |
| | | 7230 CWA | SP 27 | 744510 | SP 38 |
| | | 7230 DA | SP 27 | 744600 | SP 38 |

Numerical Index

COMPONENTS / SPARE PARTS



| Product | Page | Product | Page | Product | Page |
|---------|--------------|----------|--------------|-----------|-------|
| 744601 | SP 38 | 771412 | SP 80 | 8575 KW | SP 83 |
| 744602 | SP 38 | 771413 | SP 80 | 8575 L | SP 84 |
| 744603 | SP 38 | 771415 | SP 80 | 8575 LA | SP 84 |
| 744605 | SP 38 | 771420 | SP 80 | 8575 LB | SP 84 |
| 744800 | SP 78 | 7909890 | SP 55 | 8575 LC | SP 84 |
| 744801 | SP 78 | 7944790 | SP 55 | 8585 S | SP 84 |
| 744805 | SP 78 | 7976090 | SP 77 | 8585 S-11 | SP 84 |
| 745200 | SP 39 | 826200 | SP 59 | 8585 S-12 | SP 84 |
| 745201 | SP 39 | 826201 | SP 59 | 8585 S-13 | SP 84 |
| 745202 | SP 39 | 826210 | SP 59 | 8585 S-14 | SP 84 |
| 745800 | SP 90 | 826300 | SP 39 | 8585 S-15 | SP 84 |
| 745802 | SP 90 | 8565 B | SP 81 | 8585 SP | SP 84 |
| 745830 | SP 90 | 8565 BB | SP 81 | 8700 CKA | SP 43 |
| 749000 | SP 78 | 8565 BC | SP 81 | 8700 CP | SP 43 |
| 749001 | SP 78 | 8565 BCE | SP 81 | 8700 DKA | SP 43 |
| 753500 | SP 79 | 8565 BG | SP 81 | 8705 CKA | SP 43 |
| 753501 | SP 79 | 8565 BL | SP 81 | 8706 CA | SP 43 |
| 753502 | SP 79 | 8565 C | SP 81 | 8707 DA | SP 43 |
| 753503 | SP 79 | 8565 CL | SP 81 | 8707 DP | SP 43 |
| 753504 | SP 79 | 8565 E | SP 81 | 8710 AGA | SP 43 |
| 753700 | SP 79 | 8574 KT | SP 83 | 8710 AP | SP 43 |
| 753701 | SP 79 | 8574 KU | SP 83 | 8711 AGA | SP 43 |
| 754200 | SP 78, SP 79 | 8574 KW | SP 83 | 8711 AP | SP 43 |
| 754300 | SP 78 | 8575 AV | SP 43 | 8712 AP | SP 43 |
| 755500 | SP 31 | 8575 GN | SP 83 | 8712 BP | SP 43 |
| 755501 | SP 31 | 8575 K | SP 82 | 8712 CP | SP 43 |
| 755505 | SP 31 | 8575 KA | SP 82 | 955 S | SP 16 |
| 755506 | SP 31 | 8575 KB | SP 82, SP 83 | 955 U | SP 16 |
| 770500 | SP 31 | 8575 KC | SP 82 | 955 V | SP 16 |
| 771400 | SP 80 | 8575 KD | SP 82, SP 83 | 955 W | SP 16 |
| 771410 | SP 80 | 8575 KT | SP 83 | 955 Z | SP 16 |

Headmirrors

Reflectors, Headbands

Components / Spare Parts

Catalog page

- 074090** **Headmirror Standard**
- 074091 **Headmirror, diameter 90 mm**
- 074095 **Headband, narrow**

- 075090** **Headmirror Standard**
- 074091 **Headmirror, diameter 90 mm**
- 075095 **Headband, wide**

3

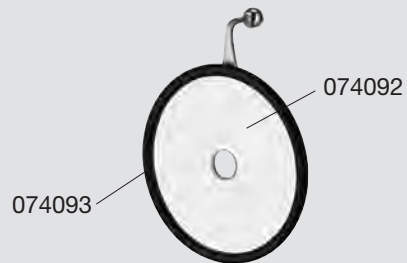


Components / Spare Parts

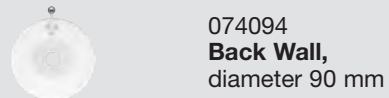
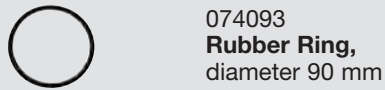
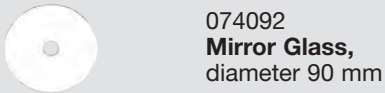
Catalog page

- 074091** **Headmirror, diameter 90 mm**

—



Spare Parts



Components / Spare Parts

Catalog page

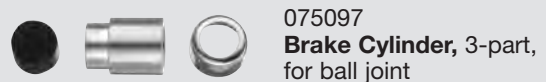
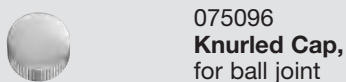
- 074095** **Headband, narrow, for 074090**
- 075095** **Headband, wide, for 075090**

—

—



Spare Parts



Headmirrors

Reflectors, Headbands

Components / Spare Parts

Catalog page

- 076090** ZIEGLER **Headmirror**
- 076091 **Headmirror**, diameter 90 mm
- 076095 **Headband**, narrow

- 077090** ZIEGLER **Headmirror**
- 076091 **Headmirror**, diameter 90 mm
- 077095 **Headband**, wide



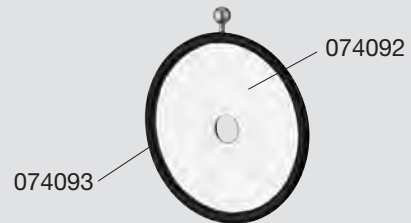
3

Components / Spare Parts

Catalog page

- 076091** **Headmirror**, diameter 90 mm

—



Spare Parts



074092
Mirror Glass,
diameter 90 mm



074093
Rubber Ring,
diameter 90 mm



074094
Back Wall,
diameter 90 mm

Components / Spare Parts

Catalog page

- 076095** ZIEGLER **Headband**, narrow, for 076090
- 077095** ZIEGLER **Headband**, wide, for 077090

—

—



Spare Part



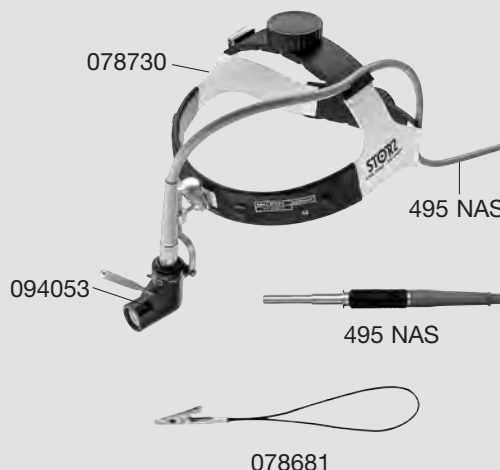
077096
Double Joint

Headlights

Components / Spare Parts

Catalog page

- 094051 Headlight** 7
- 094053 **Headlight**, with U-shaped suspension and ball joint
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder for Headlights 094051, 094055, 095501 and 095505
- 495 NAS **Fiber Optic Light Cable**, straight plug, diameter 3.5 mm, length 230 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



- 094055 Headlight**
- 094053 **Headlight**, with U-shaped suspension and ball joint
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder for Headlights 094051, 094055, 095501 and 095505
- 495 NWMS **Fiber Optic Light Cable**, with 90° deflection to the cold light source, diameter 3.5 mm, length 230 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



Headlights

Components / Spare Parts

Catalog page

078730 Headband, for 094051 and 094055

12



Spare Parts



078502
Screw Cap



078511
Forehead Cushion,
with push-button lock



078503
Brake Cylinder, 3-part,
for ball joint



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs

Components / Spare Parts

Catalog page

094053 Headlight, for 094051 and 094055

—



Spare Parts



084508
Suspension,
with cross connection,
for 084500 – 084503



094005
Handle, sterilizable,
with sleeve



5915702
Thread Pin, for lamp head

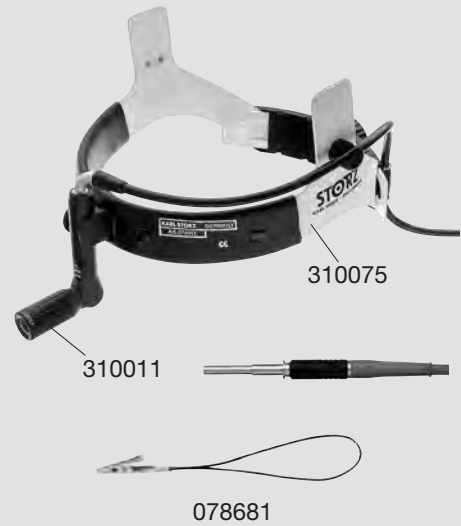
Headlights

Components / Spare Parts

Catalog page

- 310010** **Headlight**, with straight plug
- 310011 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 310075 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting for Headlight 310010/310015
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing

8



- 310015** **Headlight**, with 90° deflection
- 310016 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 310075 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting for Headlight 310010/310015
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



Components / Spare Parts

Catalog page

- 310075** **Headband**, for 310010 and 310015

12

Spare Part



078511
Forehead Cushion, with push-button lock



Headlights

Components / Spare Parts

Catalog page

8

- 310020** **Headlight**, with straight plug
- 310011 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 310076 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting for Headlight 310020/310025
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 310025** **Headlight**, with 90° deflection
- 310016 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 310076 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting for Headlight 310020/310025
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



Components / Spare Parts

Catalog page

12

- 310076** **Headband**, for 310020 and 310025



Spare Parts



078511
Forehead Cushion, with push-button lock



310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs

Headlights

Components / Spare Parts

Catalog page

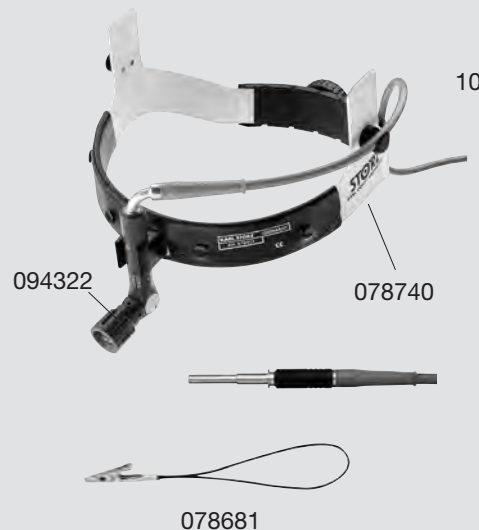
- 094301** **Headlight**, with straight plug
- 094302 **Headlight**, lightweight model, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 094305** **Headlight**, with 90° deflection
- 094306 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 094320** **Headlight**, with straight plug
- 094322 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



9

10

Headlights

Components / Spare Parts Catalog page

- 094325** **Headlight**, with 90° deflection
- 094326 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 094330** **Headlight**
- 094332 **Headlight**, with connection for use with thin, 230 cm long fiber optic light cable 495 NTAS with straight plug or 495 NTXS with 90° deflection to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



Components / Spare Parts Catalog page

- 078740** **Headband**, for 094301, 094305, 094320, 094325 and 094330



Spare Part



078511
Forehead Cushion,
with push-button lock

Headlights

LED Headlights

Components / Spare Parts

Catalog page

- 094100** **LED Headlight**, with white light
- 094103 **Headlight**, LED technology, **white light**, including connecting cable for battery box
- 094108 **Battery Box**, for use with 2 Photo Batteries 121306 P, CR 123 A
- 121306 P **Photo Batteries**, lithium, 3 V, CR 123 A
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124

- 094110** **LED Headlight**, with yellowish light
- 094104 **Headlight**, LED technology, **yellowish light**, including connecting cable for battery box
- 094108 **Battery Box**, for use with 2 Photo Batteries 121306 P, CR 123 A
- 121306 P **Photo Batteries**, lithium, 3 V, CR 123 A
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124



Components / Spare Parts

Catalog page

- 094108** **Battery Box**, for 094100 and 094110



Spare Parts



094108 B
Cover, for Battery Box 094108



121306 P
Photo Battery, lithium, 3 V, CR 123 A

Spare parts for headband see SP 14

Headlights

LED Headlights

Components / Spare Parts

Catalog page

- 094120** **LED Headlight**, with white light
- 094103 **Headlight**, LED technology, **white light**, including connecting cable for rechargeable battery box
- 094124 **Rechargeable Battery Box**, with 1 Li-Ion rechargeable battery
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124

- 094130** **LED Headlight**, with yellowish light
- 094104 **Headlight**, LED technology, **yellowish light**, including connecting cable for rechargeable battery box
- 094124 **Rechargeable Battery Box**, with 1 Li-Ion rechargeable battery
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124



Components / Spare Parts

Catalog page

- 094124** **Rechargeable Battery Box**, for 094120 and 094130



Spare Parts



094125 A
Li-Ion Rechargeable Battery Cell, with key



094127
Mains Cord, for Battery Charger 094129, length 150 cm



094129
Battery Charger Li-Ion, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz



094105
Extension Cable, for LED Headlights 094100 – 094130, for carrying the battery box or rechargeable battery box in OR clothing

Spare parts for headband see SP 14

Headlights

LED Headlights

Components / Spare Parts

Catalog page

078760 **Headband**, for 094100, 094110, 094120 and 094130

12



Spare Parts



078511
Forehead Cushion,
with push-button lock



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs



094109
Holding Band,
for Battery Box 094108 or
Rechargeable Battery Box
094124, leather, with snap
closure

Headlights

Headlights "CLAR 73"

Components / Spare Parts

Catalog page

11

- 095501 **Headlight "CLAR 73"**, with straight plug
- 095502 **Headlight "CLAR 73"**, with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the light source
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



078681

- 095505 **Headlight "CLAR 73"**, with 90° deflection
- 095506 **Headlight "CLAR 73"**, with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with 90° deflection to the light source
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



078681

Spare parts for headlights and headband see following pages

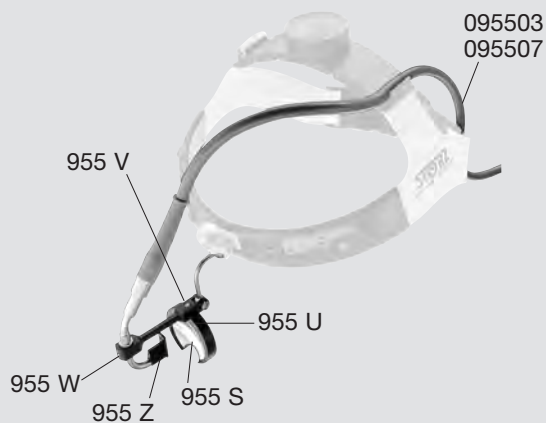
Headlights

Headlights "CLAR 73"

Components / Spare Parts

Catalog page

| | | |
|--------|--|---|
| 095502 | Headlight "CLAR 73", with straight plug | - |
| 095506 | Headlight "CLAR 73", with 90° deflection | - |



Spare Parts



955 S
Mirror



955 U
Metal Holder,
for mirror



955 V
Fixation Screw,
for metal holder (mirror)



955 W
Fixation Screw,
for fiber optic light cable



955 Z
Fixation Screw, set of 2

Spare Part for 095502



095503
Integral Fiber Optic Light
Cable, with straight plug

Spare Part for 095506



095507
Integral Fiber Optic Light
Cable, with 90° deflection

Headlights

Headlights "CLAR 73"

Components / Spare Parts

Catalog page

078730 **Headband**, for 095501 and 095505

12



Spare Parts



078502
Screw Cap



078511
Forehead Cushion,
with push-button lock



078503
Brake Cylinder, 3-part,
for ball joint



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs

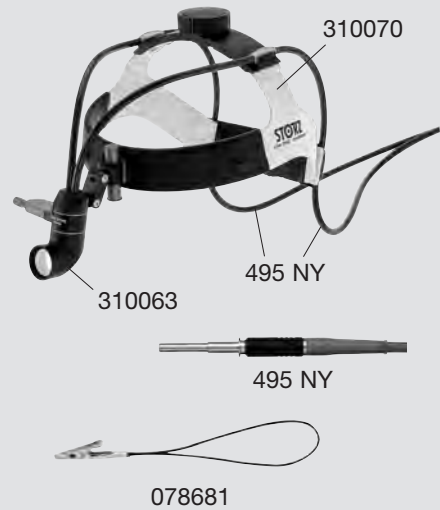
Headlights

Headlights KS60

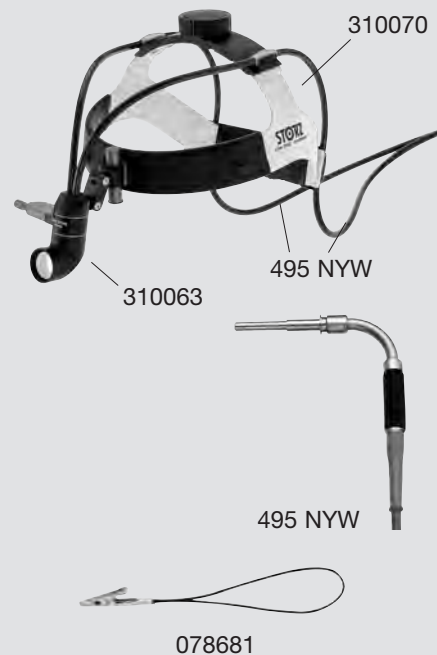
Components / Spare Parts

Catalog page

- 310060** **Headlight KS60** 6
- 310063 **Headlight KS60**, with removable and sterilizable Focus Handle 310065
- 310070 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 310063
- 495 NY **Y-Fiber Optic Light Cable**, with special protective casing for Headlight 310063, length 290 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



- 310061** **Headlight KS60**
- 310063 **Headlight KS60**, with removable and sterilizable Focus Handle 310065
- 310070 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 310063
- 495 NYW **Y-Fiber Optic Light Cable**, with special protective casing for Headlight 310063, with 90° deflection to the cold light source, length 290 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



Headlights

Headlights KS60

Components / Spare Parts

Catalog page

310070 **Headband**, for 310060 and 310061

12



Spare Parts



078511
Forehead Cushion,
with push-button lock



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs

Components / Spare Parts

Catalog page

310063 **Headlight KS60**, for 310060 and 310061

—



Spare Part



310065
Handle, with focusing
screw, sterilizable

Headlights

Headlight "CLAR 55"

Components / Spare Parts

Catalog page

- 087200 **Headlight "CLAR 55"** -
- 087201 **Headlight "CLAR 55"**
- 108210 **Headlight Cable**, complete, length 240 cm
- 087290 **Headband**, wide
- 087284 **Spare Lamp**, 6 V



Components / Spare Parts

Catalog page

- 087290 **Headband**, wide, for "CLAR 55" -



Spare Parts



087294
Velcro Strips, for fastening
inside Headband 087290,
length 11.5 cm



087296
Knurled Cap, for ball joint,
for 087290



087295
Cushion, for Velcro
fastener



087297
Brake Cylinder, 3-part,
for ball joint, for 087290

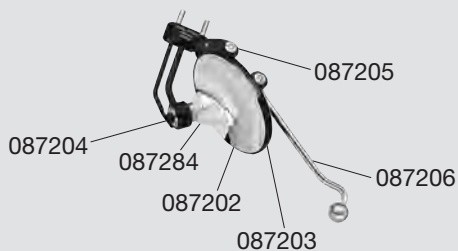
Headlights

Headlight "CLAR 55"

Components / Spare Parts

Catalog page

087201 **Headlight "CLAR 55"** —



Spare Parts



087202
Mirror



087205
Adaptor, between mirror tray and lamp holder



087203
Mirror Tray



087206
Suspension Device



087204
Lamp Holder, with plug connector



087284
Spare Lamp, spherical, diameter 17.5 mm, 6 V, 1 A

Components / Spare Parts

Catalog page

108210 **Headlight Cable, complete** —



Spare Parts



108211
Upper Headlight Cable, length 120 cm, with Mignon adaptor for connection to Headlights 084400, 084900, 087200 and Mignon plug



108214
Mignon Plug, male



108213
Mignon Coupling, female



108222
Lower Headlight Cable, with 25 mm flat plug, length 120 cm

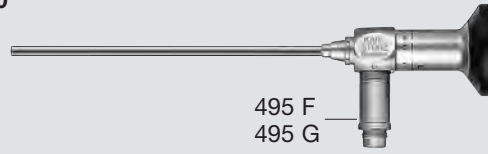
Otoscopies

HOPKINS® Telescopes, Tele-Otoscopies

Components / Spare Parts

Catalog page

| | | |
|---------|---|----|
| 1232 AA | HOPKINS® Straight Forward Telescope 0° | 15 |
| 1232 BA | HOPKINS® Forward-Oblique Telescope 30° | 15 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

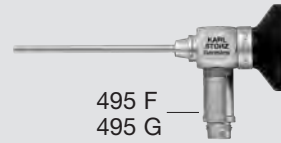


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

| | | |
|---------|---|----|
| 1218 AA | Tele-Otoscope, with HOPKINS® Straight Forward Telescope 0° | 16 |
| 1218 BA | Tele-Otoscope, with HOPKINS® Forward-Oblique Telescope 30° | 16 |
| 1215 AA | Tele-Otoscope, with HOPKINS® Straight Forward Telescope 0° | 16 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

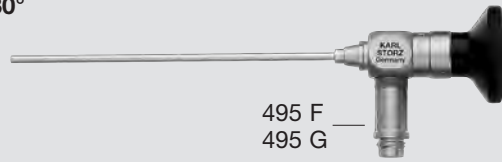


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

| | | |
|---------|---|----|
| 1230 AA | HOPKINS® Straight Forward Telescope 0° | 17 |
| 1230 BA | HOPKINS® Forward-Oblique Telescope 30° | 17 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

| | | |
|---------|---|---------|
| 1216 AA | HOPKINS® Straight Forward Telescope 0° | 398-399 |
|---------|---|---------|



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Nasal Specula

Components / Spare Parts

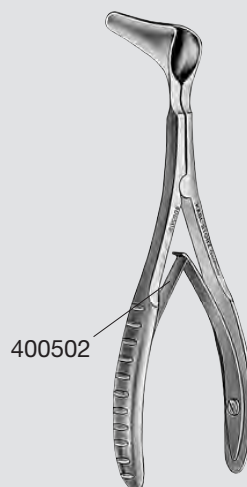
Catalog page

| | | |
|--------|---|----------|
| 400500 | HARTMANN Nasal Speculum | 106 |
| 403540 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |
| 403555 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |
| 403565 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |
| 403575 | KILLIAN-STRUYCKEN Nasal Speculum | 107, 364 |
| 403590 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |

Spare Part



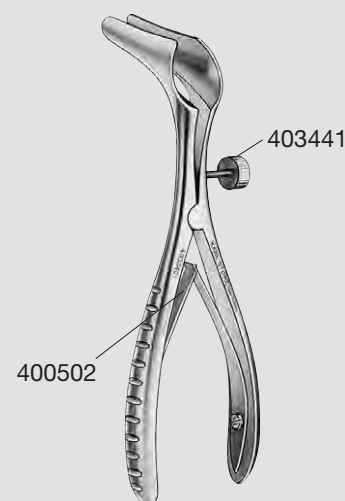
400502
Spring, for nasal speculum



Components / Spare Parts

Catalog page

| | | |
|--------|---|-----|
| 403340 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |
| 403355 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |
| 403375 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |
| 403390 | KILLIAN-STRUYCKEN Nasal Speculum | 107 |
| 403440 | KILLIAN-STRUYCKEN Nasal Speculum | — |
| 403455 | KILLIAN-STRUYCKEN Nasal Speculum | — |
| 403475 | KILLIAN-STRUYCKEN Nasal Speculum | — |
| 403490 | KILLIAN-STRUYCKEN Nasal Speculum | — |
| 403835 | COTTLE Nasal Speculum | 108 |
| 403855 | COTTLE Nasal Speculum | 108 |
| 403865 | COTTLE Nasal Speculum | 108 |
| 403875 | COTTLE Nasal Speculum | 108 |
| 403890 | COTTLE Nasal Speculum | 108 |
| 403950 | COTTLE Nasal Speculum | — |
| 403975 | COTTLE Nasal Speculum | — |



Spare Parts



400502
Spring, for nasal speculum



403441
Set Screw

Nasal Specula, Septum Morcelizers

Components / Spare Parts

Catalog page

| | | |
|--------|----------------|----------|
| 404040 | Nasal Speculum | 108, 316 |
| 404055 | Nasal Speculum | 108, 316 |
| 404075 | Nasal Speculum | 364 |
| 404090 | Nasal Speculum | 364 |

Spare Parts



404037
Fiber Optic Light Carrier



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe



Components / Spare Parts

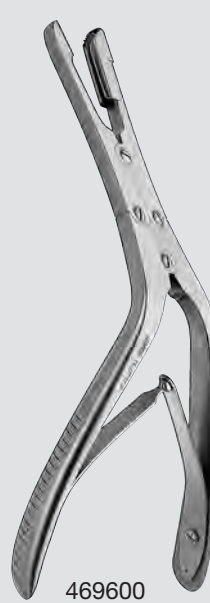
Catalog page

| | | |
|--------|-------------------------|-----|
| 469600 | RUBIN Septum Morcelizer | 125 |
| 488038 | RUBIN Septum Morcelizer | 158 |

Spare Part



469602
Protective Cap, for
RUBIN Septum Morcelizer
469600 and 488038



469600



488038

Sinoscopes

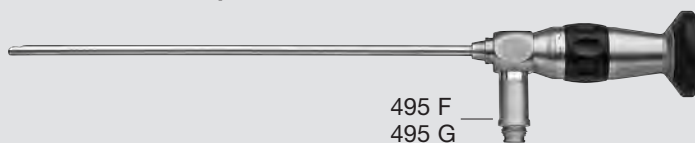
ENDOCAMELEON® ENT HOPKINS® Telescope, HOPKINS® II Telescopes

Components / Spare Parts

Catalog page

7230 AE **ENDOCAMELEON® ENT HOPKINS® Telescope**

252



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

7230 AP **HOPKINS® II Straight Forward Telescope 0°, enlarged view**

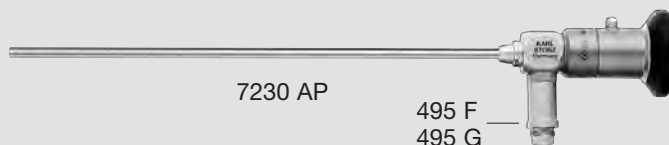
254, 681

7230 BP **HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**

254, 681

7230 FP **HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**

254, 681



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

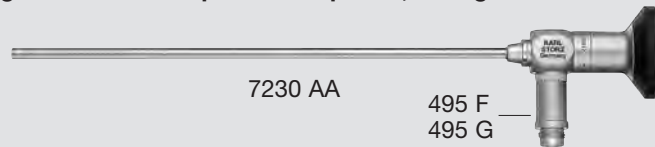


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Sinoscopes

HOPKINS® II Telescopes

| Components / Spare Parts | | Catalog page |
|--------------------------|---|--------------|
| 7230 AA | HOPKINS® II Straight Forward Telescope 0°, enlarged view | 256, 313 |
| 7230 AWA | HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view | 255 |
| 7230 BA | HOPKINS® II Forward-Oblique Telescope 30°, enlarged view | 256, 313 |
| 7230 BWA | HOPKINS® II Wide Angle Forward-Oblique Telescope 30°, enlarged view | 255 |
| 7230 CA | HOPKINS® II Lateral Telescope 70°, enlarged view | 256 |
| 7230 CWA | HOPKINS® II Wide Angle Lateral Telescope 70°, enlarged view | 255 |
| 7230 DA | HOPKINS® II Lateral Telescope 90°, enlarged view | 256 |
| 7230 EA | HOPKINS® II Retrograde Telescope 120°, enlarged view | 256 |
| 7230 FA | HOPKINS® II Forward-Oblique Telescope 45°, enlarged view | 256 |
| 7230 FWA | HOPKINS® II Wide Angle Forward-Oblique Telescope 45°, enlarged view | 255 |



Spare Parts

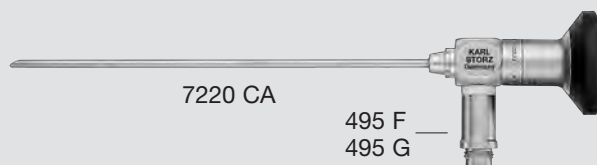


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

| Components / Spare Parts | | Catalog page |
|--------------------------|---|--------------|
| 7230 FLA | HOPKINS® II Forward-Oblique Telescope 45°, enlarged view | 257 |
| 7230 BVA | HOPKINS® II Forward-Oblique Telescope 30°, enlarged view | 257 |
| 7230 FVA | HOPKINS® II Forward-Oblique Telescope 45°, enlarged view | 257 |
| 7230 CVA | HOPKINS® II Lateral Telescope 70°, enlarged view | 257 |
| 7235 AWA | HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view | 257 |
| 7220 AA | HOPKINS® II Straight Forward Telescope 0°, enlarged view | 258 |
| 7220 BA | HOPKINS® II Forward-Oblique Telescope 30°, enlarged view | 258 |
| 7220 CA | HOPKINS® II Lateral Telescope 70°, enlarged view | 258 |
| 7220 FA | HOPKINS® II Forward-Oblique Telescope 45°, enlarged view | 258 |
| 7220 FVA | HOPKINS® II Forward-Oblique Telescope 45°, enlarged view | 258 |
| 7229 AA | HOPKINS® II Straight Forward Telescope 0°, enlarged view | 259 |
| 7229 BA | HOPKINS® II Forward-Oblique Telescope 30°, enlarged view | 259, 283 |
| 7229 FA | HOPKINS® II Forward-Oblique Telescope 45°, enlarged view | 259 |
| 7229 CA | HOPKINS® II Lateral Telescope 70°, enlarged view | 259 |
| 7207 AA | HOPKINS® II Straight Forward Telescope 0° | 260 |
| 7207 BA | HOPKINS® II Forward-Oblique Telescope 30° | 260 |
| 7209 BA | HOPKINS® Forward-Oblique Telescope 30° | 260, 316 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

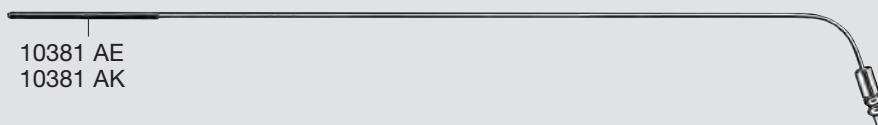


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Suction and Irrigation Tubes

Suction Tubes

| Components / Spare Parts | | Catalog page |
|--------------------------|--------------|--------------|
| 10381 A | Suction Tube | 663 |
| 10381 AL | Suction Tube | 611 |
| 10381 B | Suction Tube | 611, 663 |



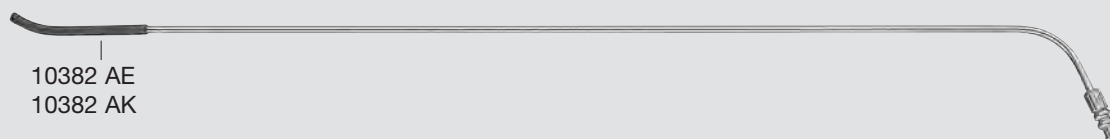
Spare Parts

Spare Part for 10381 A and 10381 AL

Spare Part for 10381 B



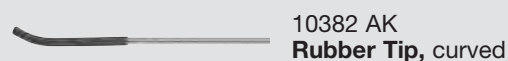
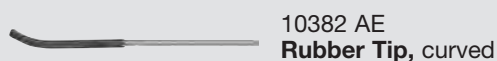
| Components / Spare Parts | | Catalog page |
|--------------------------|--------------|--------------|
| 10382 A | Suction Tube | 663 |
| 10382 AM | Suction Tube | 611 |
| 10382 B | Suction Tube | 611, 663 |



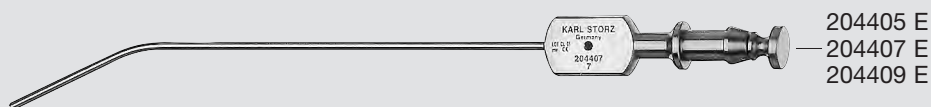
Spare Parts

Spare Part for 10382 A and 10382 AM

Spare Part for 10382 B



| Components / Spare Parts | | Catalog page |
|--------------------------|----------------------|--------------|
| 204405 | PLESTER Suction Tube | 37 |
| 204407 | PLESTER Suction Tube | 37 |
| 204409 | PLESTER Suction Tube | 37 |



Spare Parts

for 204405 204405 E
Stylet

for 204407 204407 E
Stylet

for 204409 204409 E
Stylet

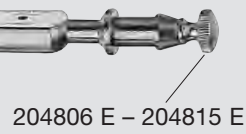
Suction and Irrigation Tubes

Suction Tubes, Suction Elevator, Suction Raspatory

Components / Spare Parts

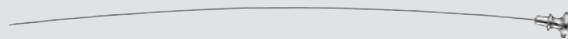
Catalog page

- 204806 FERGUSON Suction Tube
- 204808 FERGUSON Suction Tube
- 204809 FERGUSON Suction Tube
- 204810 FERGUSON Suction Tube
- 204812 FERGUSON Suction Tube
- 204815 FERGUSON Suction Tube



- 37
- 37
- 37
- 37, 169
- 37, 169
- 37, 169

Spare Parts



for 204806

204806 E
Stylet

for 204810

204810 E
Stylet

for 204808

204808 E
Stylet

for 204812

204812 E
Stylet

for 204809

204809 E
Stylet

for 204815

204815 E
Stylet

Components / Spare Parts

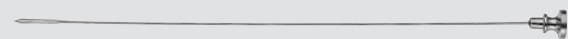
Catalog page

- 474001 FREER Suction Elevator

126, 302



Spare Part



474001 E
Stylet

Components / Spare Parts

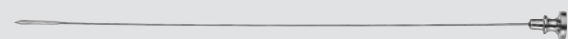
Catalog page

- 479800 Suction Raspatory

129



Spare Part



479800 E
Stylet

Suction and Irrigation Tubes

Suction Tubes

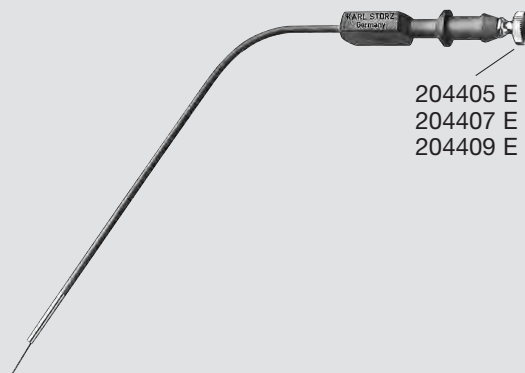
Components / Spare Parts

Catalog page

| | | |
|---------------|------------------------------|-----|
| 488084 | FERGUSON Suction Tube | 159 |
| 488085 | FERGUSON Suction Tube | 159 |
| 488086 | FERGUSON Suction Tube | 159 |

Spare Parts

| | |
|------------|----------------------------------|
| for 488084 | 488084 E Stylet |
| for 488085 | 488085 E Stylet |
| for 488086 | 488086 E Stylet |



204405 E
204407 E
204409 E

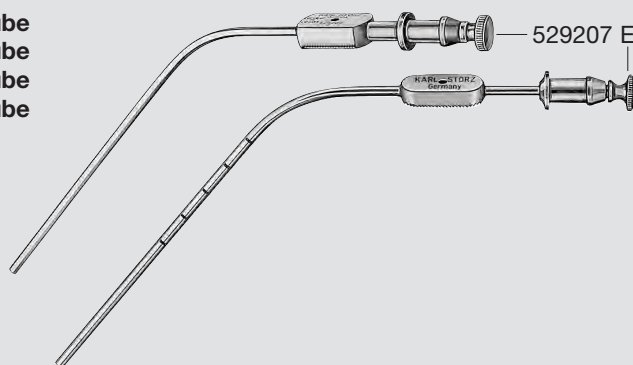
Components / Spare Parts

Catalog page

| | | |
|---------------|-----------------------------|----------|
| 529205 | FRAZIER Suction Tube | 154 |
| 529207 | FRAZIER Suction Tube | 154 |
| 529305 | FRAZIER Suction Tube | 307 |
| 529307 | FRAZIER Suction Tube | 307, 315 |

Spare Part

529207 E
Stylet



529207 E

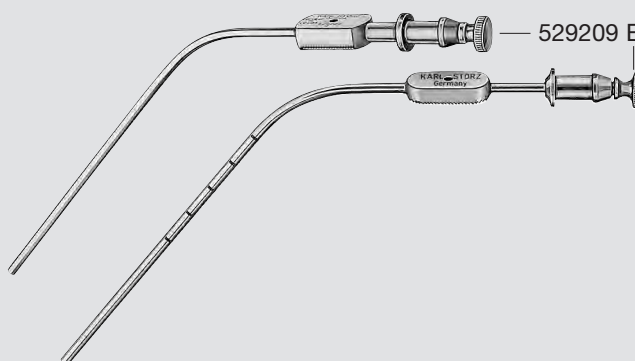
Components / Spare Parts

Catalog page

| | | |
|---------------|-----------------------------|-----|
| 529209 | FRAZIER Suction Tube | 154 |
| 529309 | FRAZIER Suction Tube | 307 |

Spare Part

529209 E
Stylet

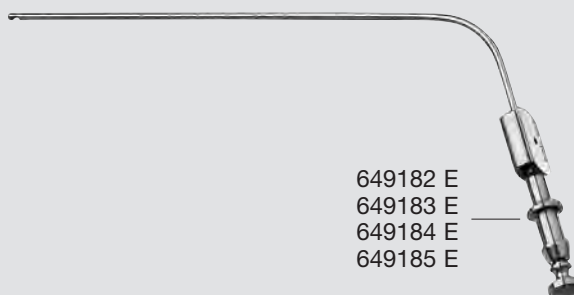


529209 E

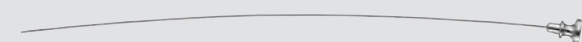
Suction and Irrigation Tubes, Larynx Instruments

Components / Spare Parts Catalog page

| | | | |
|---------------|------------------------------|--|-----|
| 649182 | FERGUSON Suction Tube | | 194 |
| 649183 | FERGUSON Suction Tube | | 194 |
| 649184 | FERGUSON Suction Tube | | 194 |
| 649185 | FERGUSON Suction Tube | | 194 |



Spare Parts



for 649182 **649182 E
Stylet**

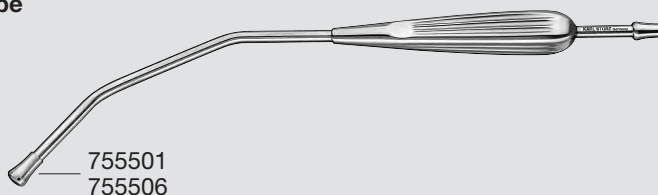
Spare Part for 649184 **649184 E
Stylet**

for 649183 **649183 E
Stylet**

Spare Part for 649185 **649185 E
Stylet**

Components / Spare Parts Catalog page

| | | | |
|---------------|------------------------------|--|-----|
| 755500 | YANKAUER Suction Tube | | 357 |
| 755505 | YANKAUER Suction Tube | | 357 |



Spare Parts

Spare Part for 755500



**755501
Suction Knob, hole
diameter 4 mm**

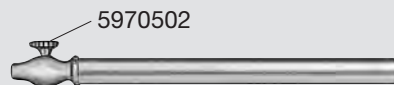
Spare Part for 755505



**755506
Suction Knob, hole
diameter 2 mm**

Components / Spare Parts Catalog page

| | | | |
|---------------|-------------------------------------|--|---------|
| 770500 | Handle, for Laryngeal Mirror | | 359-360 |
|---------------|-------------------------------------|--|---------|



Spare Part



**5970502
Spare Screw,
for Handle 770500**

Suction and Irrigation Tube

Irrigation and Suction Handles

Components / Spare Parts

Catalog page

- 723620** THUMFART **Irrigation and Suction Handle** 197
- 723620 H THUMFART **Handle**, with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723620 DV **Press Button Valve**, with lock function
- 723621** THUMFART **Irrigation and Suction Handle**
- 723620 H THUMFART **Handle**, with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723621 SV **Push Button Valve** (irrigation only active when pressure valve is depressed)



723620 DV



723621 SV

Spare Part



7249291
O-Ring Set, 2 sizes,
package of 5

Components / Spare Parts

Catalog page

- 723622** IRO **Irrigation and Suction Handle** 198
- 723622 H IRO **Handle**, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723620 DV **Press Button Valve**, with lock function
- 723623** IRO **Irrigation and Suction Handle**
- 723622 H IRO **Handle**, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723621 SV **Push Button Valve** (irrigation only active when pressure valve is depressed)



723620 DV



723621 SV

Spare Part

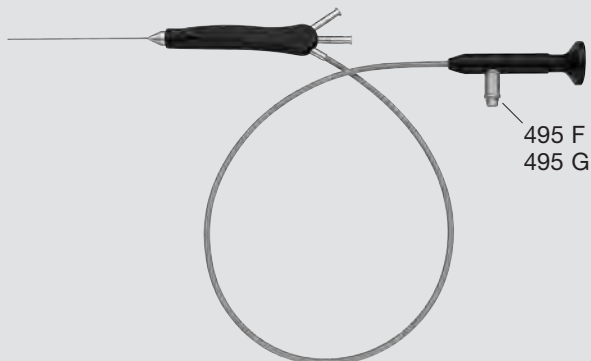


7249291
O-Ring Set, 2 sizes,
package of 5

Sialendoscopes

Miniature Straight Forward Telescopes

| Components / Spare Parts | | Catalog page |
|--------------------------|---|--------------|
| 11572 A | Miniature Straight Forward Telescope 0° | 320 |
| 11573 A | Miniature Straight Forward Telescope 0° | 320 |
| 11574 A | Miniature Straight Forward Telescope 0° | 320 |



Spare Parts

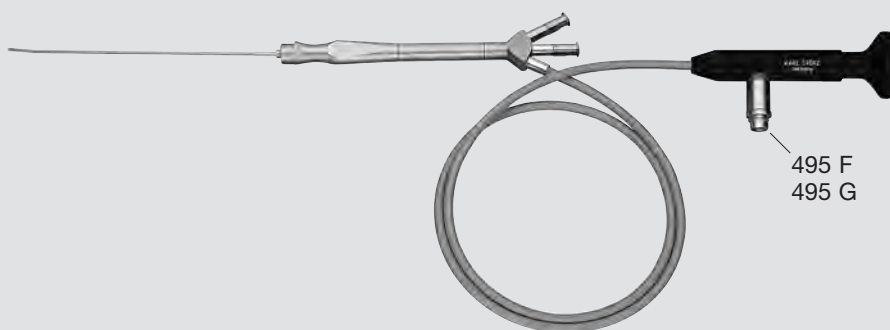


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

| Components / Spare Parts | | Catalog page |
|--------------------------|---|--------------|
| 11575 A | Miniature Straight Forward Telescope 0° | 321 |
| 11581 A | Miniature Straight Forward Telescope 0° | 321 |
| 11582 A | Miniature Straight Forward Telescope 0° | 321 |
| 11583 A | Miniature Straight Forward Telescope 0° | 321 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Sialendoscopes

Miniature Straight Forward Telescopes

Components / Spare Parts

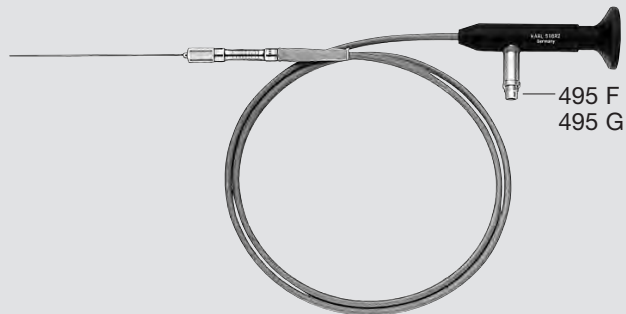
Catalog page

11576 A Miniature Straight Forward Telescope 0°

322

11577 A Miniature Straight Forward Telescope 0°

324



Spare Parts



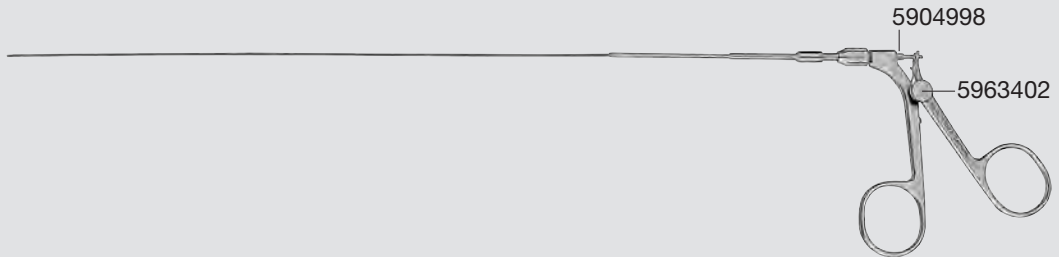
495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Forceps and Punches

| Components / Spare Parts | | Catalog page |
|--------------------------|----------------------|--------------|
| 11576 TJ | Foreign Body Forceps | 326 |
| 11576 ZJ | Biopsy Forceps | 326 |
| 11583 TJ | Foreign Body Forceps | 326 |
| 11583 ZJ | Biopsy Forceps | 326 |



Spare Parts

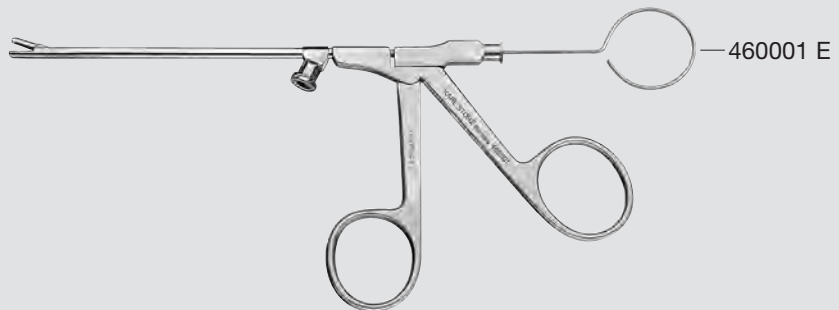


5904998
Seal, diameter 0.8 mm

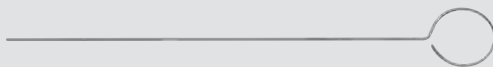


5963402
Knurled Screw

| Components / Spare Parts | | Catalog page |
|--------------------------|--|--------------|
| 460001 | STAMMBERGER Suction Punch, for biopsy and grasping | 285 |
| 460501 | STAMMBERGER Suction Punch, for biopsy and grasping | 285 |



Spare Part



460001 E
Cleaning Stylet,
diameter 1.6 mm,
working length 18 cm

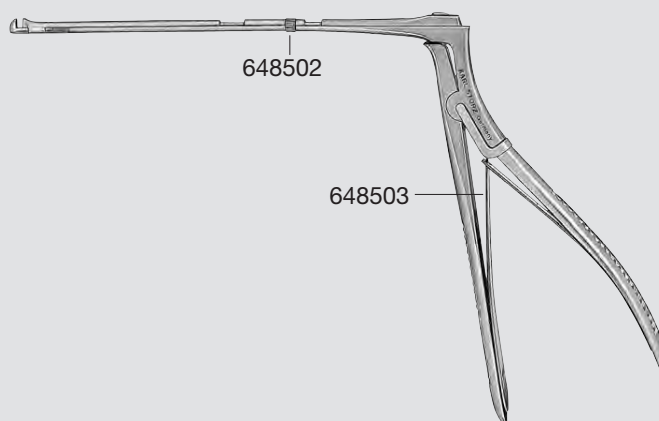
Forceps and Punches

Components / Spare Parts

Catalog page

648500 HAJEK-KOFLER Sphenoid Punch

172



Spare Parts



648502
Knurled Nut, for reversible Sphenoid Punch 648500 – 648523



648503
Spring, for bone punches

Components / Spare Parts

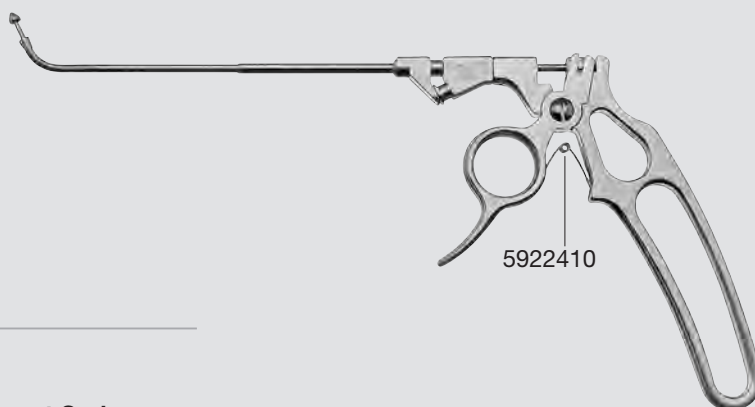
Catalog page

651503 HOSEMANN Frontal Sinus/Recess Punch

293

651504 HOSEMANN Sphenoid Punch

293



Spare Part



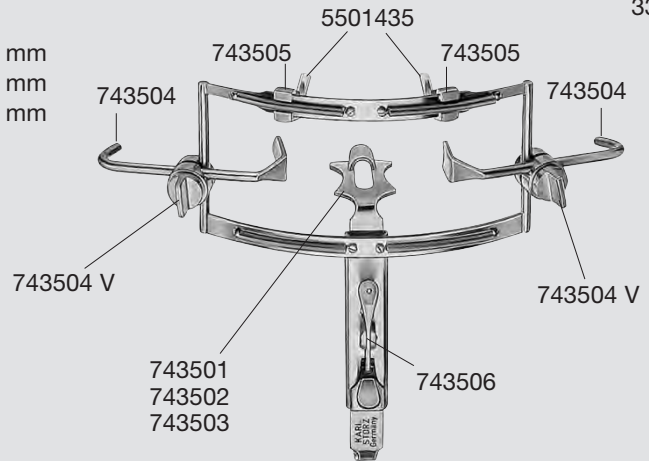
5922410
Replacement Spring

Tongue Blades and Mouth Gags

Components / Spare Parts

Catalog page

- 743500** DINGMANN Mouth Gag 339
- 743501 **Tongue Depressor**, size 1, 55 x 25 mm
- 743502 **Tongue Depressor**, size 2, 60 x 27 mm
- 743503 **Tongue Depressor**, size 3, 70 x 30 mm
- 743504 **Cheek Retractor**, adjustable
- 743504 V **Screw Connection**, complete
- 743505 **Tooth Hook**, movable
- 743506 **Mouth Gag**



Spare Part



5501435
Silicone Tubing

Components / Spare Parts

Catalog page

- 743910** DAVIS-MEYER **Tongue Blade** 340
- 743915** DAVIS-MEYER **Tongue Blade** 340
- 743920** DAVIS-MEYER **Tongue Blade** 340
- 743925** DAVIS-MEYER **Tongue Blade** 340
- 743930** DAVIS-MEYER **Tongue Blade** 340
- 743935** DAVIS-MEYER **Tongue Blade** 340
- 743940** DAVIS-MEYER **Tongue Blade** 340



Spare Part



7362691
Y-Tube, for tongue blade,
length 190 mm

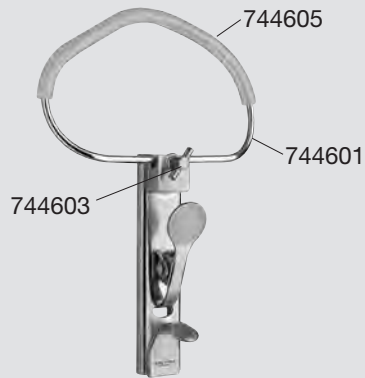
Tongue Blades and Mouth Gags

Components / Spare Parts

Catalog page

744600 McIVOR Mouth Gag

346



Spare Parts



744601
Frame



744603
Screw, for fixation
of frame



744602
Silicone Tube,
diameter 5.5 mm,
length 1 m



744605
Silicone Protection,
package of 10

Components / Spare Parts

Catalog page

744500 DAVIS-MEYER Mouth Gag

345

744510 DAVIS-MEYER Mouth Gag

345



Spare Parts



5501135
Rubber Cap,
length 1 m



744501
Tooth Hook,
movable

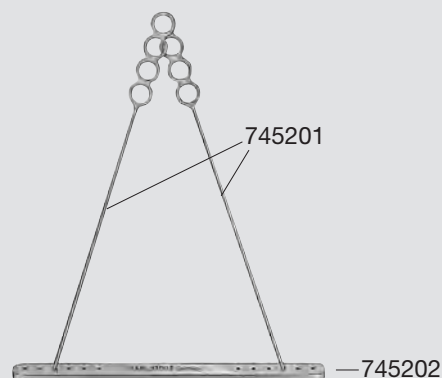
Tongue Blades and Mouth Gags, Stroboscope

Components / Spare Parts

Catalog page

- 745200** **DRAFFIN Suspension Apparatus Bipod**
- 745201 **Rod, with 4 rings (2 pieces)**
- 745202 **Base Plate**

346



Components / Spare Parts

Catalog page

- 40160101** **PULSAR II Stroboscope Set**
- 40160120 **PULSAR II Stroboscope,**
power supply 100 – 240 V, 50/60 Hz
- 400 A **Mains Cord, length 300 cm**
- 40160021 **LED Stroboscopy Light Source**
- 40160032 **Footswitch**
- 40160030 **Contact Sound Microphone, with clip**

513



Components / Spare Parts

Catalog page

- 40150001** **KARL STORZ μ -PULSAR, for laryngeal stroboscopy**
- 40150020 **KARL STORZ μ -PULSAR, basic unit for**
use with Battery Charger **40 1500 30**
- 826300 **Leather Bag for μ -PULSAR**

515



40150020

Flexible Endoscopes

Rhino-Pharyngo-Laryngo-Fiberscope, Adaptor for Two-Way Stopcock

Components / Spare Parts

Catalog page

| | | |
|-----------------|--|----------|
| 11001 RD | Rhino-Laryngo-Fiberscope, 3.5 x 340 mm | 248, 508 |
| 11001 UD | Rhino-Pharyngo-Laryngo-Fiberscope, 2.3 x 230 mm | 508 |
| 11101 RP | Rhino-Pharyngo-Laryngo-Fiberscope, 3.5 x 300 mm | 248, 508 |
| 11101 SK | Rhino-Laryngo-Fiberscope, 2.5 x 270 mm | 248, 508 |
| 11101 SP | Rhino-Laryngo-Tracheo-Fiberscope, 2.5 x 370 mm | 248, 508 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

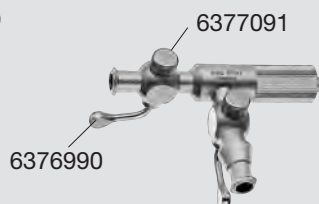


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

| | | |
|----------------|---|---|
| 6927691 | Adaptor for Two-Way Stopcock, for 11001 RD | — |
|----------------|---|---|



Spare Parts



6376990
Stopcock, for
irrigation connector



6377091
Spring Cap

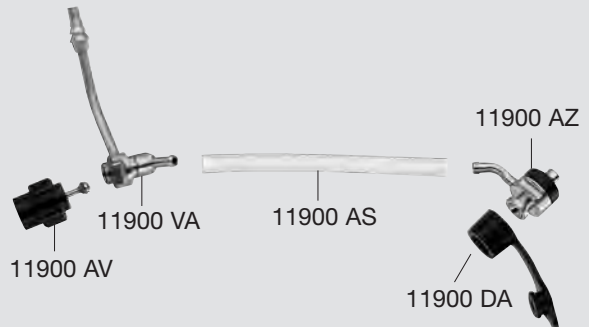
Flexible Endoscopes

Suction Unit, Suction Valve

Components / Spare Parts

Catalog page

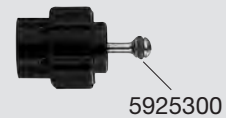
- 11900 AE** **Suction Unit**, set for Video Bronchoscopes 11900 AP and 11900 BP
- 11900 AV **Suction Valve**
- 11900 VA **Valve Adaptor**
- 11900 AS **Connecting Cable**, package of 10
- 11900 AZ **Suction Cylinder**
- 13991 DA **Cap**, package of 10



Components / Spare Parts

Catalog page

- 11900 AV** **Suction Valve**



Spare Part



5925300
O-Ring, for suction valve,
small, red, 2 x 1.5 mm

Flexible Endoscopes

Broncho-Fiberscope, TELE PACK X

Components / Spare Parts

Catalog page

| | | |
|----------|--------------------|-----|
| 11001 BI | Broncho-Fiberscope | 692 |
| 11001 BN | Broncho-Fiberscope | 628 |
| 11002 BD | Broncho-Fiberscope | 628 |
| 11003 BC | Broncho-Fiberscope | 628 |
| 11004 BC | Broncho-Fiberscope | 628 |
| 11004 BI | Broncho-Fiberscope | 692 |
| 11005 BC | Broncho-Fiberscope | 628 |
| 11009 BC | Broncho-Fiberscope | 628 |
| 11009 BI | Broncho-Fiberscope | 692 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

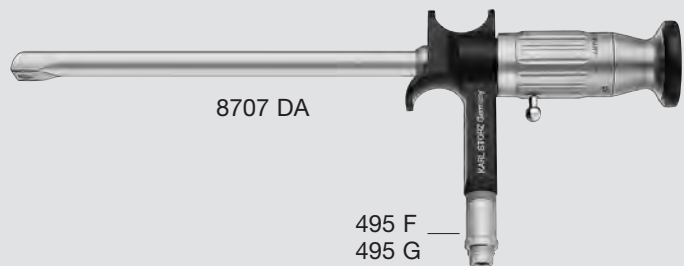
| | | |
|--------------------|--|---------------|
| 20045001-EN | TELE PACK X | 246, 506, 626 |
| 20040240US | USB Silicone Keyboard, with touchpad, US character set | |
| 20040280 | KARL STORZ USB Flash Drive, 4 GB | |
| 400 F | Mains Cord, length 300 cm | |
| 400 B | Mains Cord, US version | |



Laryngoscopes

HOPKINS® and HOPKINS® II Telescopes

| Components / Spare Parts | | Catalog page |
|--------------------------|---|--------------|
| 8700 CP | Tele-Laryngoscope , with integrated HOPKINS® lateral telescope 70° | 523, 682 |
| 8700 DKA | Tele-Laryngo-Pharyngoscope , with integrated HOPKINS® lateral telescope 90° | 516 |
| 8707 DA | Tele-Laryngo-Pharyngoscope , with integrated HOPKINS® lateral telescope 90° | 516 |
| 8707 DP | Tele-Laryngo-Pharyngoscope , with integrated HOPKINS® lateral telescope 90° | 523, 682 |
| 8700 CKA | BENJAMIN Tele-Laryngoscope , with integrated HOPKINS® lateral telescope 70° | 517 |
| 8705 CKA | BENJAMIN Slimline Tele-Laryngoscope , with integrated HOPKINS® lateral telescope 70° | 517 |
| 8706 CA | Strobo-Laryngoscope , with integrated HOPKINS® lateral telescope 70° | 517 |



Spare Parts

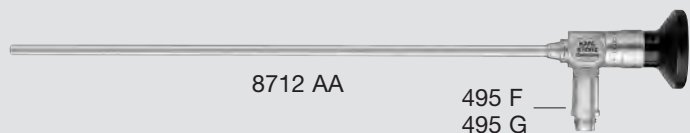


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

| Components / Spare Parts | | Catalog page |
|--------------------------|---|--------------------|
| 8712 AP | HOPKINS® II Straight Forward Telescope 0°, enlarged view | 522, 683 |
| 8712 BP | HOPKINS® II Forward-Oblique Telescope 30°, enlarged view | 522, 683 |
| 8712 CP | HOPKINS® II Lateral Telescope 70°, enlarged view | 522, 683 |
| 8711 AP | HOPKINS® II Straight Forward Telescope 0° | 522, 683 |
| 8710 AP | HOPKINS® Straight Forward Telescope 0° | 522, 683 |
| 8710 AGA | HOPKINS® Straight Forward Telescope 0 | 524, 676 |
| 8711 AGA | HOPKINS® Straight Forward Telescope 0°, enlarged view | 524, 676 |
| 8575 AV | HOPKINS® Straight Forward Telescope 15° | 529, 540 |
| 10005 AA | HOPKINS® II Straight Forward Telescope 0°, enlarged view | 591, 617, 642, 653 |
| 10005 BA | HOPKINS® II Forward-Oblique Telescope 30°, enlarged view | 591, 642 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

25320001 UNIMAT® 30, Suction Pump Set, 230 VAC

636

25320020 **UNIMAT® 30**, suction pump,
power supply 230 VAC,
50/60 Hz

25320080 **Bacterial Filter**

25320081 **Secretion Bottle, 2 l**

25320082 **Bottle Cap, with grip**

25320083 **Connecting Tube, short**

25320084 **Patient Tube**

25320085 **Overflow Case**

400 A **Mains Cord, length 300 cm**

mtp* **VACUsafe Promotion Pack
Suction**



25320020
25320020C

25320001C UNIMAT® 30, Suction Pump Set, 115 VAC

25320020C **UNIMAT® 30**, suction pump,
power supply 115 VAC,
50/60 Hz

25320080 **Bacterial Filter**

25320081 **Secretion Bottle, 2 l**

25320082 **Bottle Cap, with grip**

25320083 **Connecting Tube, short**

25320084 **Patient Tube**

25320085 **Overflow Case**

400 A **Mains Cord, length 300 cm**

mtp* **VACUsafe Promotion Pack
Suction**

Spare Parts

Spare Part for 25320020



1069400
Mains Fuse,
T 0.63 A, L 250 V

Spare Part for 25320020C



1069500
Mains Fuse,
T 1.6 A, L 250 V



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

UNIMAT® 30

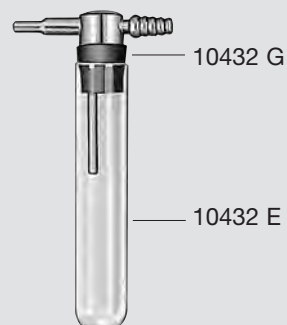
Aspirators

Components / Spare Parts

Catalog page

10432 N Aspirator
10432 T Aspirator

637, 664
637, 664



Spare Parts



10432 G
Rubber Seal



10432 E
Spare Glass

Bronchoscopes for Adults

Universal Bronchoscopes for Adults

Components / Spare Parts

Catalog page

| | | |
|----------------|-------------------------------|-----|
| 10318 B | Universal Bronchoscope | 638 |
| 10318 C | Universal Bronchoscope | 638 |
| 10318 D | Universal Bronchoscope | 638 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



10318 L
Fiber Optic Light Carrier,
for bronchoscopes



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

| | | |
|----------------|-----------------------|-----|
| 10315 P | FLUVOG Adaptor | 638 |
|----------------|-----------------------|-----|



Spare Part



6127490
Sealing Cap, (50/3.6)

Components / Spare Parts

Catalog page

| | | |
|----------------|-------------------------------|-----|
| 10315 N | Rubber Telescope Guide | 638 |
|----------------|-------------------------------|-----|



Spare Part



6127590
Sealing Cap, (50/4)

Components / Spare Parts

Catalog page

| | | |
|----------------|-------------------------|--------------|
| 10318 S | Instrument Guide | 589, 638-641 |
|----------------|-------------------------|--------------|



Spare Part



27550 C
Sealing Cap, drill hole
diameter 1.2 mm

Bronchoscopes for Adults

Components / Spare Parts

Catalog page

10101 FA Prismatic Light Deflector

544, 546, 589, 591, 599,
602, 639-642, 651-652



Spare Part



3430890
Knurled Cap

Components / Spare Parts

Catalog page

10314 P FLUVOG Adaptor

589, 591, 639-642



Spare Part



6127490
Sealing Cap, (50/3.6)

Components / Spare Parts

Catalog page

10314 BN Rubber Telescope Guide

589, 639-641



Spare Part



6127590
Sealing Cap, (50/4)

Bronchoscopes for Adults

Components / Spare Parts

Catalog page

10101 HA Prismatic Light Deflector —



Spare Part

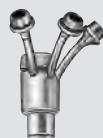


**3430890
Knurled Cap**

Components / Spare Parts

Catalog page

10317 EF Insert Sheath —



Spare Parts



**27021 Y
Sealing Cap**



**27550 A
Sealing Cap**, drill hole
diameter 0.8 mm

Components / Spare Parts

Catalog page

10317 EL Insert Sheath —



Spare Parts



**27021 Y
Sealing Cap**

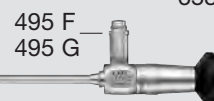


**27550 A
Sealing Cap**, drill hole
diameter 0.8 mm

Components / Spare Parts

Catalog page

| | | |
|------------------|--|-----|
| 10320 AA | HOPKINS® Straight Forward Telescope 0° | 643 |
| 10320 BA | HOPKINS® Forward-Oblique Telescope 30° | 643 |
| 10320 DA | HOPKINS® Lateral Telescope 90° | 643 |
| 10328 AA | HOPKINS® Straight Forward Telescope 0° | 645 |
| 10017 AA | HOPKINS® II Straight Forward Telescope 0° | 652 |
| 10018 AA | HOPKINS® Straight Forward Telescope 0° | 653 |
| 10324 BA | HOPKINS® Forward-Oblique Telescope 30° | 653 |
| 10023 ABA | HOPKINS® Straight Forward Telescope 0° | 653 |



Spare Parts



**495 F
Receptacle**,
diameter 9 mm, for
Wolf fiber optic light cable



**495 G
Screw Base**,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Optical Intubation Tracheoscope, TONN Stent Applicator

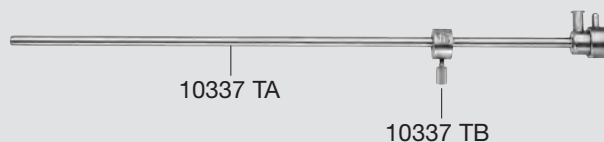
Components / Spare Parts

Catalog page

10337 T Optical Intubation Tracheoscope, GRONINGEN model

591, 642

10337 TA Sheath, for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA



10337 TB Distance Ring, with fixation screw for length adjustment of the endotracheal tubes

Components / Spare Parts

Catalog page

TONN Stent Applicator

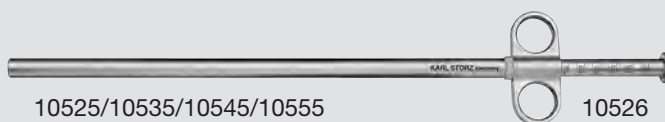
649



10521/10522/10523
10531/10532/10533



10524/10534/10544/10554



10525/10535/10545/10555

10526
10536
10546
10556

TONN Stent Applicator,

color code:

10520

blue

10530

red

10540

green

10550

white

Basic Block

10521

10531

10521

10521

Folding System

10522

10532

10542

10552

Clamping Rod

10523

10533

10523

10523

Loading Rod

10524

10534

10544

10554

Introducer Tube, with 2-ring handle

10525

10535

10545

10555

Pusher

10526

10536

10546

10556

Components / Spare Parts

Catalog page

10338 P FLUVOG Adaptor

651



Spare Part



6127390
Sealing Cap, (50/2.6)

Components / Spare Parts

Catalog page

10338 N Rubber Telescope Guide

602, 651



Spare Part



6127390
Sealing Cap, (50/2.6)

Components / Spare Parts

Catalog page

10338 S Guide Piece

651-652



Spare Part



27550 C
Sealing Cap, drill hole diameter 1.2 mm

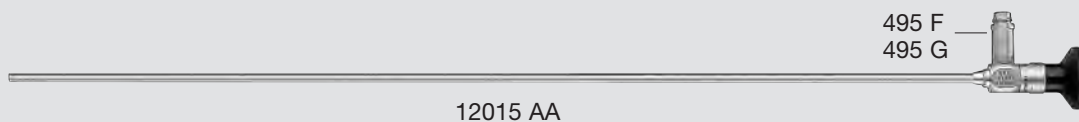
Esophagoscopes

HOPKINS® Telescopes and Miniature Straight Forward Telescope

Components / Spare Parts

Catalog page

| | | |
|-----------|---|----------|
| 12015 AA | HOPKINS® Straight Forward Telescope 0° | 600 |
| 10324 AA | HOPKINS® Straight Forward Telescope 0° | 603, 653 |
| 10020 ATA | HOPKINS® Straight Forward Telescope 0° | 604, 653 |
| 10030 AA | Miniature Straight Forward Telescope 0° | 605, 657 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Esophagoscopes

Esophagoscope Tubes

Components / Spare Parts

Catalog page

- 12016 E **Esophagoscope Tube** 600
- 12016 F **Esophagoscope Tube** -



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



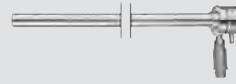
495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Spare Part for 12016 E



12016 EM
Fiber Optic Light Carrier

Spare Part for 12016 F



12016 FM
Fiber Optic Light Carrier

Spare Part for 12016 E



12016 EF
Esophagoscope Tube,
size 11

Spare Part for 12016 F

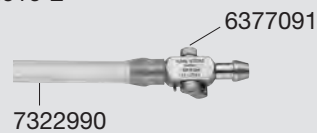


12016 FF
Esophagoscope Tube,
size 12

Components / Spare Parts

Catalog page

- 12016 EH **Stopcock, with tube,** for Esophagoscope Tube 12016 E -



Spare Parts



6871191
Stopcock



7322990
Tube



6377091
Spring Cap

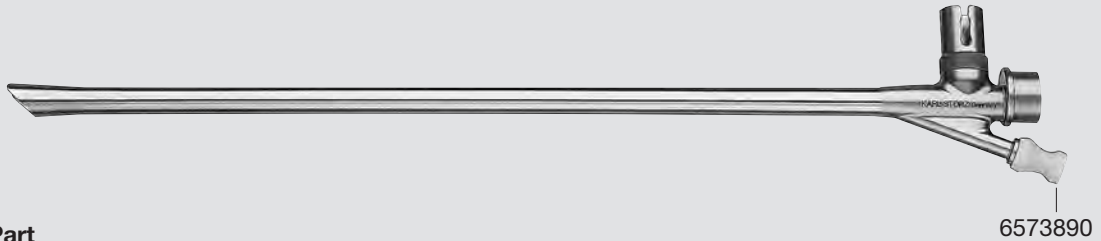
Esophagoscopes

Esophagoscope Tubes, Handle

Components / Spare Parts

Catalog page

| | | |
|-----------------|---------------------------|-----|
| 12030 A | Esophagoscope Tube | 602 |
| 12030 AL | Esophagoscope Tube | — |
| 12030 B | Esophagoscope Tube | 602 |
| 12030 C | Esophagoscope Tube | 602 |
| 12030 F | Esophagoscope Tube | 602 |
| 12030 G | Esophagoscope Tube | 602 |



Spare Part



6573890
Sealing Cap

Components / Spare Parts

Catalog page

| | | |
|-----------------|----------------------------------|---|
| 10101 FA | Prismatic Light Deflector | 544, 546, 589, 591, 599, 602, 639-642, 651-652 |
|-----------------|----------------------------------|---|



Spare Part



3430890
Knurled Cap

Components / Spare Parts

Catalog page

| | | |
|--------------|--|-----|
| 12070 | Handle, for esophagoscopes 12060 AX – T | 599 |
|--------------|--|-----|



Spare Part



6988190
Knurled Screw

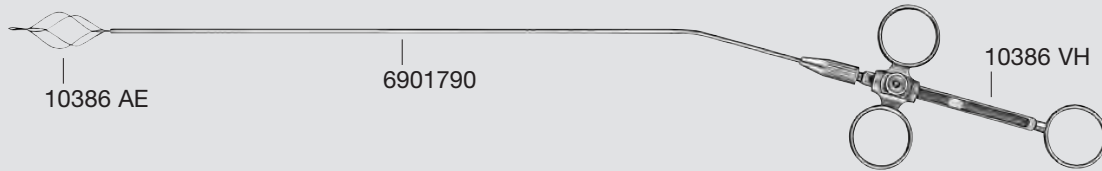
Foreign Body Baskets

Components / Spare Parts

Catalog page

10386 AL Foreign Body Basket

612, 665



Spare Parts



10386 AE
Foreign Body Basket,
without handle,
length 55 cm



6901790
Guide Tube



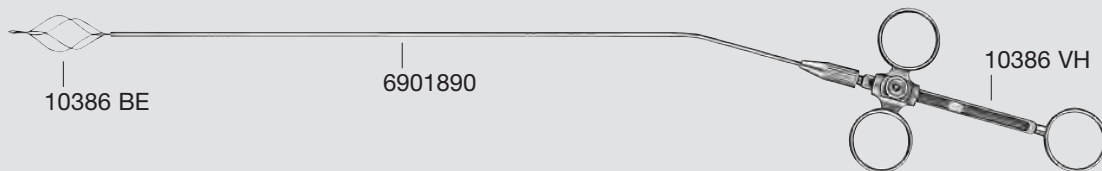
10386 VH
Three-ring Handle

Components / Spare Parts

Catalog page

10386 B Foreign Body Basket

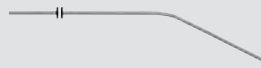
612, 665



Spare Parts



10386 BE
Foreign Body Basket,
without handle,
length 35 cm



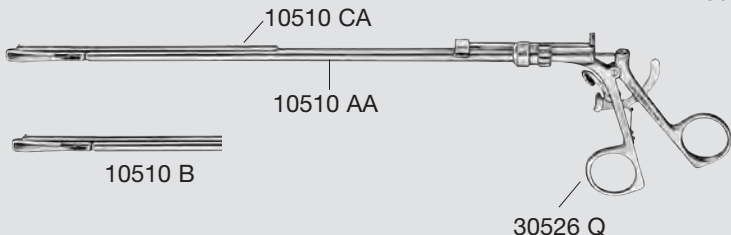
6901890
Tube



10386 VH
Three-ring Handle

FREITAG Stent Forceps

Components / Spare Parts Catalog page

| | | |
|--|--|------------|
| <p>10510 N FREITAG Stent Forceps</p> <p>30526 Q Handle, with ratchet</p> <p>10510 AA Outer Sheath</p> <p>10510 B Forceps Insert</p> <p>10510 CA Pusher</p> |  | <p>650</p> |
|--|--|------------|

Components / Spare Parts Catalog page

| | | |
|---|--|----------|
| <p>10510 AA Outer Sheath</p> |  | <p>—</p> |
|---|--|----------|

Spare Parts



7909890
Halfround Plate



7944790
Silicone Ring

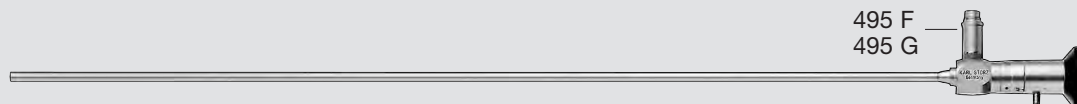
Fluorescence

HOPKINS® Telescopes

Components / Spare Parts

Catalog page

| | | |
|----------|--|-----|
| 10320 AP | HOPKINS® Straight Forward Telescope 0° | 697 |
| 10320 BP | HOPKINS® Forward-Oblique Telescope 30° | 697 |
| 10320 DP | HOPKINS® Lateral Telescope 90° | 697 |



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Miscellaneous

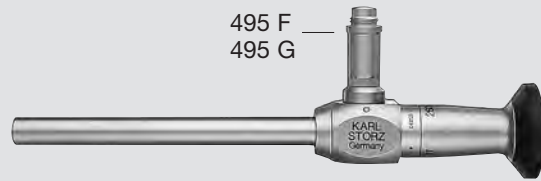
VITOM® 25 Telescope

Components / Spare Parts

Catalog page

20916020 VITOM® 25 Telescope 0°

735



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Miscellaneous

Transformers, Aspirator and Bronchus Irrigator

Components / Spare Parts

Catalog page

- 102201 B Transformer —
- 102201 C Transformer —



Spare Parts



2027290
Fuse, for secondary circuit



Spare Parts for 102201 B

2026890
Mains Fuse



400 A
Mains Cord,
length 300 cm

Spare Parts for 102201 C



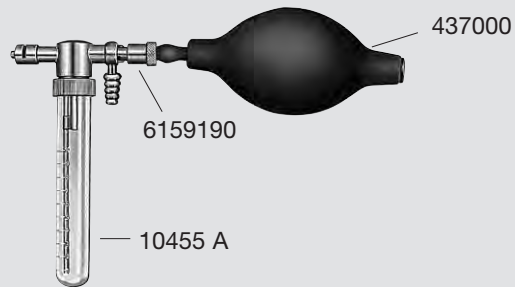
2054090
Mains Fuse

Components / Spare Parts

Catalog page

- 10434 HUZLY Aspirator and Bronchus Irrigator

664



Spare Parts



10455 A
Graduated Container,
autoclavable



437000
Rubber Bulb

Miscellaneous

ENT Diagnosis Set

Components / Spare Parts

Catalog page

826201 **ENT Diagnosis Set**, for outpatient basic ENT examinations

398



- 826200 **Leather Bag for ENT Diagnosis Set**, with divided main compartment and 2 detachable side pockets
- 138700 **Nystagmus Spectacles**, small model without illumination
- 826210 **LED Penlight**, burning time approx. 50 hours in continuous operation with 2 Micro-AAA batteries (included)
- 126100 **Tuning Fork**, A¹-440, with stand, small model
- 740116 **Tongue Depressor**, wooden, width 19 mm, length 16 cm, package of 100

Miscellaneous

Pneumatic Adaptor, Rubber Bulb

Components / Spare Parts

Catalog page

119500

HAWKE Pneumatic Adaptor

16



Spare Parts



119501
Cone



6127390
Sealing Cap, (50/2.6)



119651
Rubber Bulb,
without cone

Components / Spare Parts

Catalog page

119650

Rubber Bulb

20



Spare Parts



119651
Rubber Bulb,
without cone





600005
Record Outer Cone

Miscellaneous

Otoscope, Tuning Forks, Noise Apparatus

Components / Spare Parts Catalog page

| | | | |
|---------------|--|--|---------|
| 121300 | HEINE Otoscope | | 19, 398 |
| 121310 | Otoscope Head , fiber optic light transmission incorporated | | |
| 121302 | Ear Speculum , outer diameter 2.5 mm |  | |
| 121303 | Ear Speculum , outer diameter 3 mm | | |
| 121304 | Ear Speculum , outer diameter 4 mm | | |
| 121305 | Ear Speculum , outer diameter 5 mm | | |
| 121311 | Battery Handle | | |
| 121306 | 1.5 Volt Battery , type R 14 S | | |
| 63 | Spare Lamp , no. 63, 2.5 V | | |
| | |  | |
| 121320 | HEINE Otoscope Head | | |
| 121302 | Ear Speculum , outer diameter 2.5 mm | | |
| 121303 | Ear Speculum , outer diameter 3 mm | | |
| 121304 | Ear Speculum , outer diameter 4 mm | | |
| 121305 | Ear Speculum , outer diameter 5 mm | | |
| 63 A | Spare Lamp , no. 63 A, 3.5 Volt | | |

Components / Spare Parts Catalog page

| | | | |
|---------------|---|--|----|
| 125501 | Tuning Fork , C ² -512 | | 23 |
| 125601 | Tuning Fork , C ³ -1024 | | 23 |
| 126000 | Tuning Fork , A ¹ -440 | | 23 |
| 126100 | Tuning Fork , A ¹ -440, small model | | 23 |



Spare Part



126001
Stand

Components / Spare Parts Catalog page

| | | | |
|---------------|-------------------------------|--|----|
| 130000 | BARANY Noise Apparatus | | 23 |
|---------------|-------------------------------|--|----|



Spare Part



130001
Ear Olive

Miscellaneous

Battery Light Source LED for Endoscopes, Nystagmus Spectacles

Components / Spare Parts

Catalog page

11301 D4 Battery Light Source LED for Endoscopes

17, 261, 398-399, 635



094108 B

Spare Parts



094108 B
Cover, for Battery Box
094108



121306 P
Photo Battery, lithium,
3 V, CR 123 A

Components / Spare Parts

Catalog page

138805 FRENZEL Nystagmus Spectacles

24



Spare Parts



138806
Rubber Band, black,
with 2 fasteners



138964
Spare Lamp, 4 V



138807
Glare Shield, black

Components / Spare Parts

Catalog page

138905 FRENZEL Nystagmus Spectacles, battery version

24



Spare Parts



121306
1.5 Volt Battery,
Type R 14 S



138807
Glare Shield, black



138806
Rubber Band, black,
with 2 fasteners



138964
Spare Lamp, 4 V

Miscellaneous

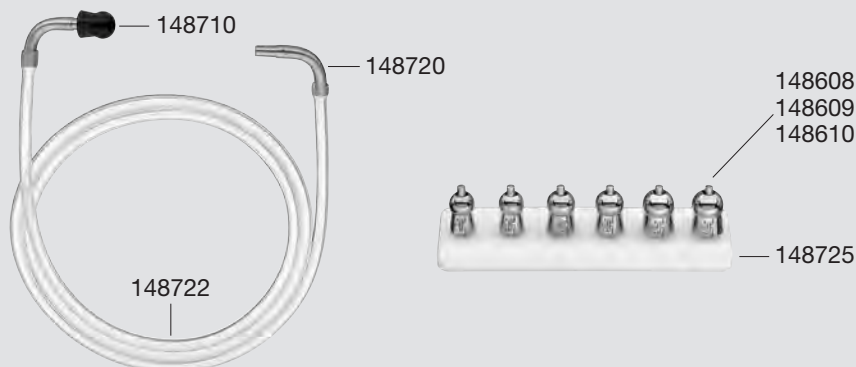
Diagnostic Tube, Powder Blower

Components / Spare Parts

Catalog page

148500 JANSSEN Diagnostic Tube

25



Spare Parts



148608
Ear Tip,
diameter 8 mm



148609
Ear Tip,
diameter 9 mm



148610
Ear Tip,
diameter 10 mm



148710
Ear Tip, black,
diameter 10 mm



148720
Angle



148722
Tube,
length 100 cm



148725
Stand,
for 148500

Components / Spare Parts

Catalog page

149320 KABIERSKE Powder Blower

25



Spare Parts



149307
Valve Ball, only



149324
Replacement Glass,
brown, autoclavable

Miscellaneous

Ear Knives

Components / Spare Parts

Catalog page

155000 Ear Knife, angular

27



Spare Part



155001
Ear Knife, without handle

Components / Spare Parts

Catalog page

155200 Ear Knife, bayonet-shaped

27



Spare Part



155201
Ear Knife, without handle

Miscellaneous

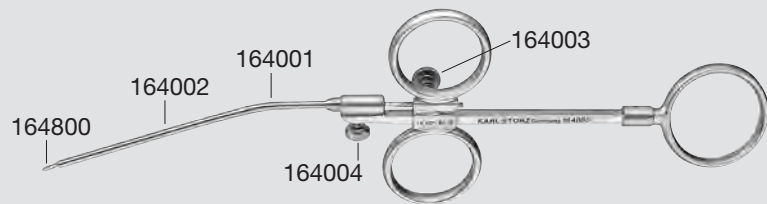
Ear Snares

Components / Spare Parts

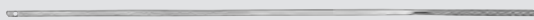
Catalog page

164000 KRAUSE Ear Snare

—



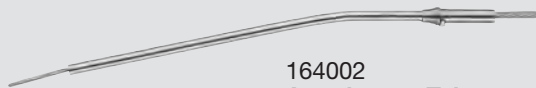
Spare Parts



164001
Pull Wire



164003
Set Screw,
for attachment tube



164002
Attachment Tube,
with pull wire



164004
Set Screw,
for pull wire M 1.9



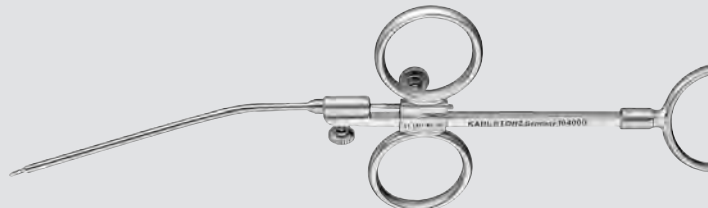
164800
Ear Snare Wire,
package of 25

Components / Spare Parts

Catalog page

164100 KRAUSE Ear Snare

28



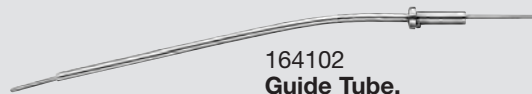
Spare Parts



164101
Traction Wire



164103
Fixation Screw



164102
Guide Tube,
with traction wire



164800
Ear Snare Wire,
package of 25

Miscellaneous

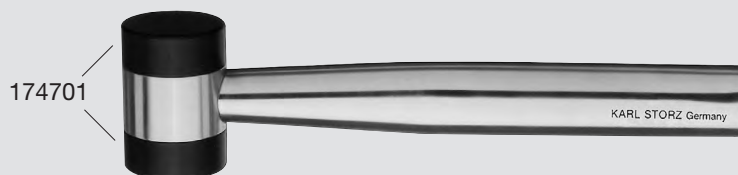
Metal Mallets

Components / Spare Parts

Catalog page

174700 Metal Mallet

31, 130



Spare Part



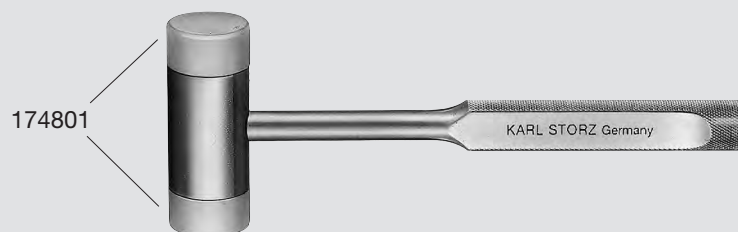
174701
Plastic Mallet Head

Components / Spare Parts

Catalog page

174800 Metal Mallet

31, 130



Spare Part



174801
Plastic Replacement

Miscellaneous

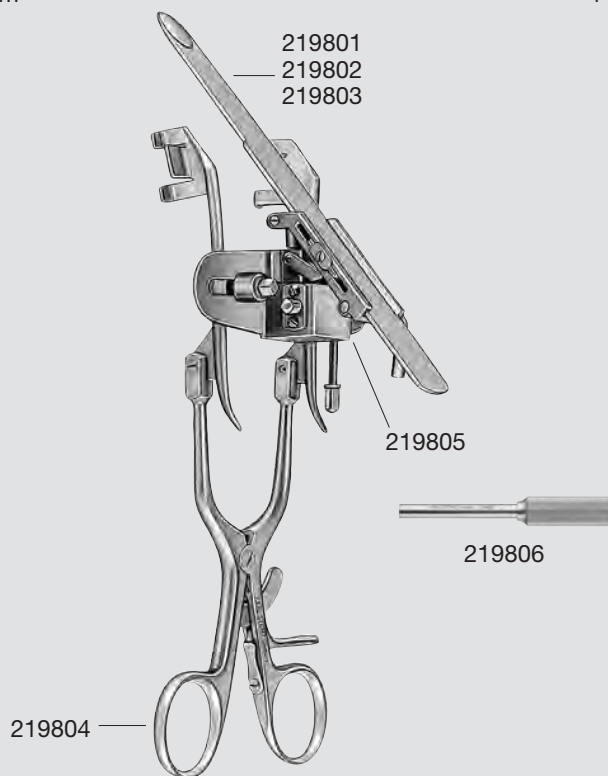
Dura Retractor, Glomus Retractor

Components / Spare Parts

Catalog page

- 219800** FISCH **Dura Retractor**, length 18 cm
- 219801 **Spatula**, straight, length 12 cm
- 219802 **Spatula**, straight, length 15 cm
- 219803 **Spatula**, curved, length 15 cm
- 219804 **Retractor**, length 18 cm
- 219805 **Spatula Attachment**, for adjustment of spatulas
- 219806 **Wrench**, for spatula attachment

44, 195

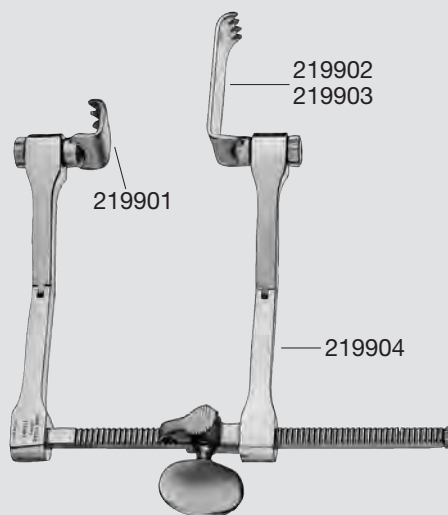


Components / Spare Parts

Catalog page

- 219900** FISCH **Glomus Retractor** (infratemporal fossa retractor)
- 219901 **Retractor Blade**, short
- 219902 **Retractor Blade**, long
- 219903 **Retractor Blade**, long and slim, with drill hole
- 219904 **Retractor Frame**, without blades

44



Miscellaneous

Wire Bending Die, Ventilation Drainage Tube Inserter,
Cartilage Cutting Block

Components / Spare Parts

Catalog page

227800 SCHUKNECHT **Wire Bending Die**

59



Spare Parts



227801
Spare Protective Frame



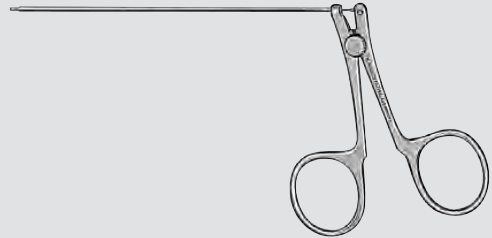
227802
Die, with bending table

Components / Spare Parts

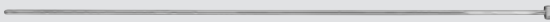
Catalog page

230000 **Ventilation Drainage Tube Inserter**

67



Spare Parts



230001
Spare Stylet,
diameter 1 mm



230002
Spare Stylet,
diameter 1.2 mm

Components / Spare Parts

Catalog page

231020 MILEWSKI **Cartilage Cutting Block**

64

231022 **Cutting Block**, plastic, white,
autoclavable, size 120 x 45 x 15 mm

231024 **Frame**, metal, U-shaped, with 2 pins
to hold the templates

231026 **Template for Ear Cartilage**, with
5 round holes 5, 7, 8, 9 and 10 mm
diameter and 2 oval holes 9 x 11 mm
and 12 x 14 mm, thickness 0.5 mm

231028 **Same**, thickness 1 mm

231030 **Template for Nasal Cartilage**, with
3 rectangular holes 5.5 x 30 mm,
15 x 15 mm and 10 x 30 mm,
thickness 1 mm

231032 **Same**, thickness 0.5 mm

231035 **Stamp**, cylindrical, with handle, to
press the cartilage on the cutting block



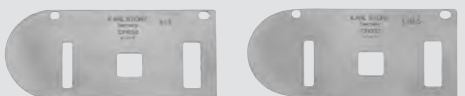
231022

231024



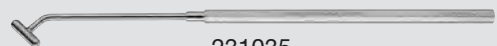
231026

231028



231030

231032



231035

Miscellaneous

Metal Tray, Metal Cases, MiniSet Container

Components / Spare Parts

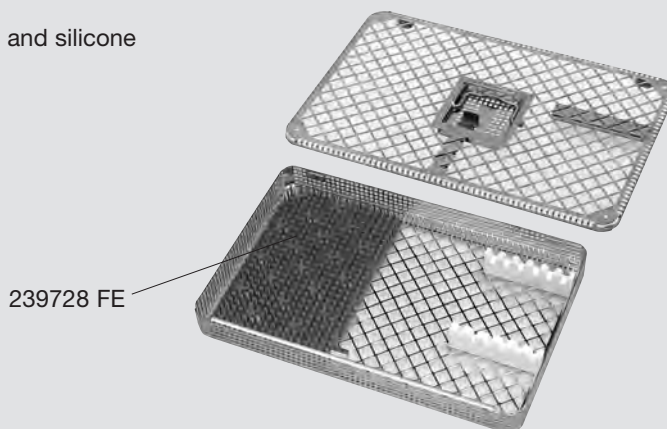
Catalog page

239728 F **Metal Tray**

66

239728 FA **Base with Lid**, with holders and silicone bridges

239728 FE **Silicone Mat**



Components / Spare Parts

Catalog page

239000 **Metal Case**

68

239075 **Metal Case**

68



Spare Parts

Spare Part for 239000



239001
Filter, set of 5 pairs

Spare Part for 239075



239076
Filter, set of 5 pairs

Components / Spare Parts

Catalog page

39780 A **MiniSet Container**, with MicroStop®

70

39780 AB **Base**

39785 AA **Lid**

39760 A **Microbiological Barrier**, with MicroStop®



Additional accessories for cleaning and sterilization see catalog HYGIENE

Miscellaneous

Metal Tray, Instrument Racks

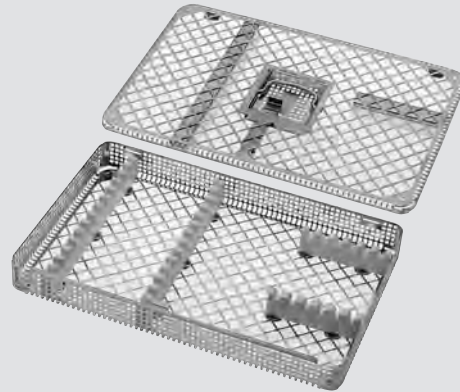
Components / Spare Parts

Catalog page

239728

Metal Tray

70



Spare Parts



239728-1
Spare Part Set, consisting of 2 short bridges, silicone leaflet valves and assembly materials



239728-2
Spare Part Set, consisting of 2 long bridges, silicone leaflet valves and assembly materials

Components / Spare Parts

Catalog page

39219 XF

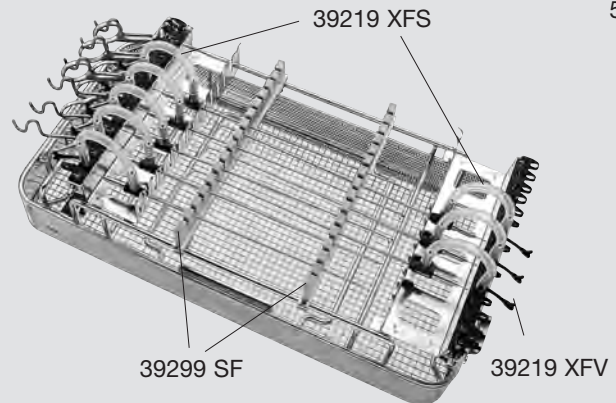
Instrument Rack

554

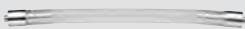
39219 XFB

Instrument Rack

554



Spare Parts



39219 XFS
Irrigation Tube, with two LUER-Lock tube connectors, length 140 mm



39299 SF
Aluminium Silicone Holder, for ENT-Instruments, **SinuFIT**® and **LaryngoFIT**®, 15 positions



39219 XFV
Sealing Cap, package of 15, for multi-port bridge

Miscellaneous

TAKE-APART® Bipolar Forceps

Components / Spare Parts

Catalog page

462020 TAKE-APART® CASTELNUOVO Bipolar Forceps

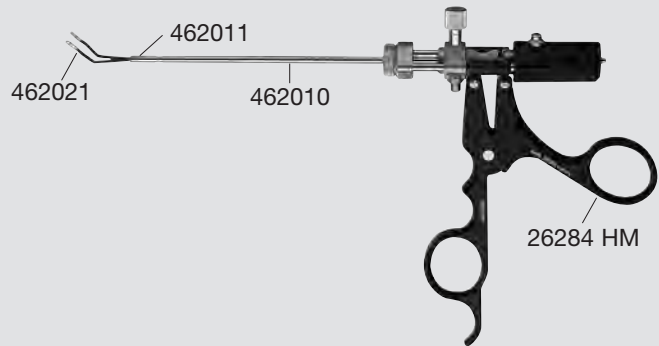
289, 403

26284 HM **Bipolar Ring Handle**

462010 **Outer Sheath**

462011 **Inner Sheath**

462021 **Forceps Insert**



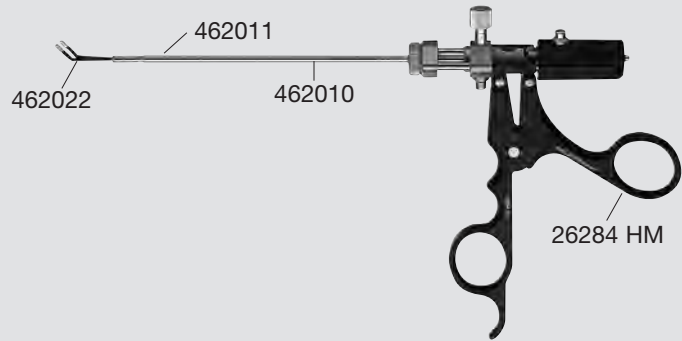
462023 TAKE-APART® Bipolar Forceps

26284 HM **Bipolar Ring Handle**

462010 **Outer Sheath**

462011 **Inner Sheath**

462022 **Forceps Insert**



Components / Spare Parts

Catalog page

26284 HM TAKE-APART® Bipolar Ring Handle, for 462020 and 462023

—

6011590



Spare Part



6011590
Plug, for LUER-Lock
connector

Miscellaneous

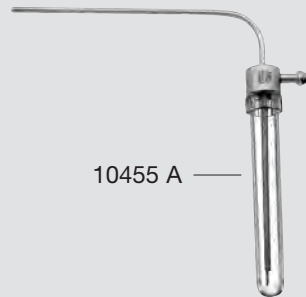
Nasal Atomizers

Components / Spare Parts

Catalog page

436610 **Nasal Atomizer**

113



10455 A

Spare Part



10455 A
Graduated Container,
autoclavable

Components / Spare Parts

Catalog page

437520 **DE VILBIS Nasal Atomizer**

113



149324

Spare Part



149324
Replacement Glass,
brown, autoclavable

Components / Spare Parts

Catalog page

437600 **DE VILBIS Nasal Atomizer**

113



437601

Spare Part



437601
Replacement Glass

Miscellaneous

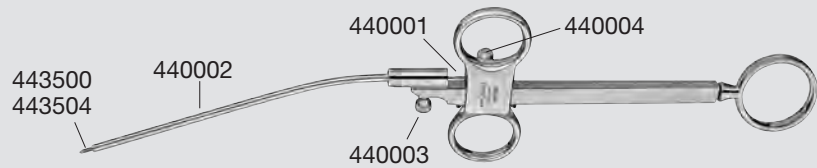
Nasal Snares

Components / Spare Parts

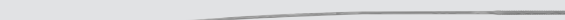
Catalog page

440000 KRAUSE Nasal Snare

114



Spare Parts



440001
Traction Wire



443500
Nasal Snare Wire,
standard size,
diameter 0.3 mm,
length 10 cm,
package of 25



440002
Guide Tube,
with traction wire



443504
Nasal Snare Wire,
standard size,
diameter 0.4 mm,
length 10 cm,
package of 25



440003
Fixation Screw,
for Tube M 2.3



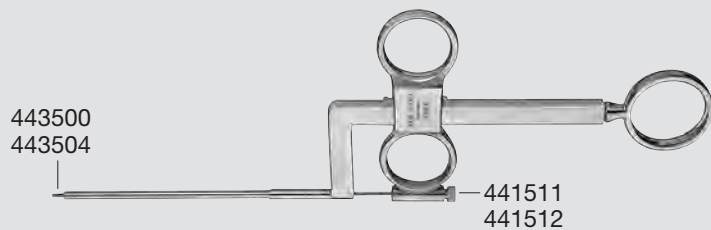
440004
Fixation Screw,
for Traction Wire M 2.5

Components / Spare Parts

Catalog page

441510 LANGE Nasal Snare

114



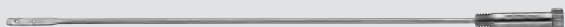
Spare Parts



441511
Traction Wire, with pin for
bayonet lock mechanism,
previous model



443500
Nasal Snare Wire,
standard size,
diameter 0.3 mm,
length 10 cm,
package of 25



441512
Traction Wire, with thread,
for use with Nasal Snare
441510, current model



443504
Nasal Snare Wire,
standard size,
diameter 0.4 mm,
length 10 cm,
package of 25

Miscellaneous

Retractor, LASER Application Instrument

Components / Spare Parts

Catalog page

- 233250** DALCHOW-O'DONOGHUE **Retractor**,
for cochlea implant operations
- 233250 A **Retractor**, with ergonomic handle, cold light
illumination, suction channel with cut-off hole,
LUER, concave blade, 20 x 30 mm,
length 19.5 cm
- 233250 B **Fiber Optic Light Carrier**, with suction tube,
length 18.5 cm

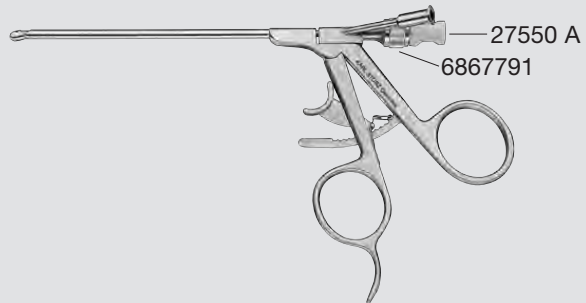


Components / Spare Parts

Catalog page

- 461000** LEUNIG-GREVERS **LASER Application Instrument**

262



Spare Parts



27550 A
Sealing Cap, drill hole
diameter 0.8 mm



6867791
Knurled Screw Cap

Miscellaneous

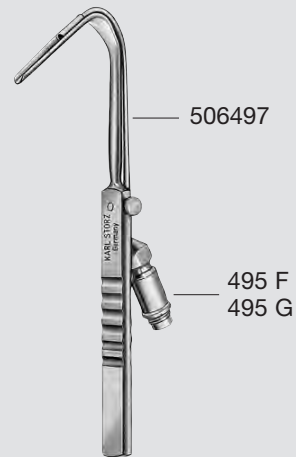
Nasal Retractor, Bone Crusher

Components / Spare Parts

Catalog page

506496 AUFRICHT **Nasal Retractor**

139



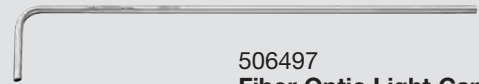
Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe



506497
Fiber Optic Light Carrier

Components / Spare Parts

Catalog page

523900 COTTLE **Bone Crusher**

149

Spare Part



523901
Metal Clamp



Miscellaneous

Caliper, Surgical Handle

Components / Spare Parts

Catalog page

525520

BEHRBOHM Caliper

152



Spare Parts



525523
Tip, with atraumatic pin,
autoclavable, length 5 cm



525525
Holder, for sterile skin
marker, autoclavable,
length 5 cm

Components / Spare Parts

Catalog page

496500

Surgical Handle, for miniature blades

—

496501 — 

Spare Part



496501
Clamping Insert

Miscellaneous

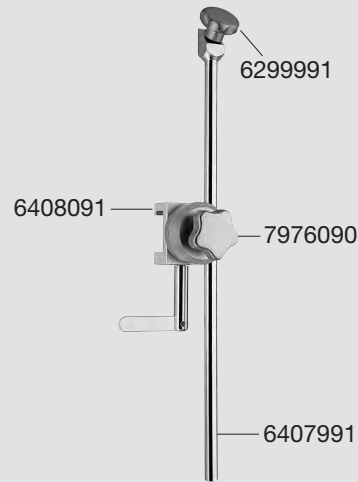
Rotating Clamp and Flexible Tension Arm

Components / Spare Parts

Catalog page

723017 Rotating Clamp

110, 309



Spare Parts

6299991
Star Grip, small



6408091
Rotating Clamp, without rod



6407991
Holding Rod, without clamp



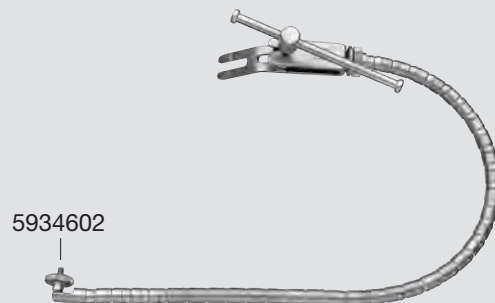
7976090
Star Grip, large

Components / Spare Parts

Catalog page

723018 Flexible Tension Arm

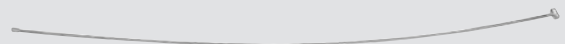
110, 309



Spare Parts



5934602
Knurled Nut



723018 Z
Bowden Wire

Miscellaneous

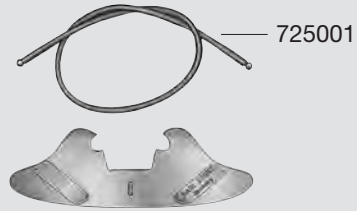
Uvula Retractor, Chest Supports, Tonsil Snare

Components / Spare Parts

Catalog page

725000 HOPMANN **Uvula Retractor**

335



Spare Part



725001
Tube, with spherical metal ends

Components / Spare Parts

Catalog page

744800 NEGUS **Chest Support**

346

744801 NEGUS **Chest Support**

—



Spare Part



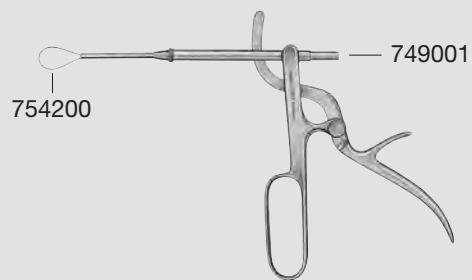
744805
Band, for fixation of chest supports

Components / Spare Parts

Catalog page

749000 TYDING **Tonsil Snare**

352



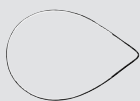
Spare Parts



749001
Traction Rod



754300
Snare Wire, diameter 0.4 mm, 10 m roll



754200
Wire Snare Loop, stainless steel, package of 100

Miscellaneous

Tonsil Snares

Components / Spare Parts

Catalog page

753500

BRÜNING'S Tonsil Snare

356

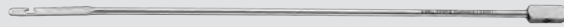


753501

753502

753503

Spare Parts



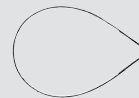
753501
Traction Rod



753504
Guide Tube, without traction rod, with central screw



753502
Spiral Spring, for ratchet lever



754200
Wire Snare Loop, stainless steel, package of 100



753503
Screw, for fixation of traction rod

Components / Spare Parts

Catalog page

753700

EVES Tonsil Snare

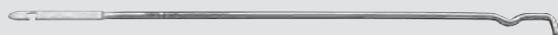
356



754200

753701

Spare Parts



753701
Traction Rod



754200
Wire Snare Loop, stainless steel, package of 100

Miscellaneous

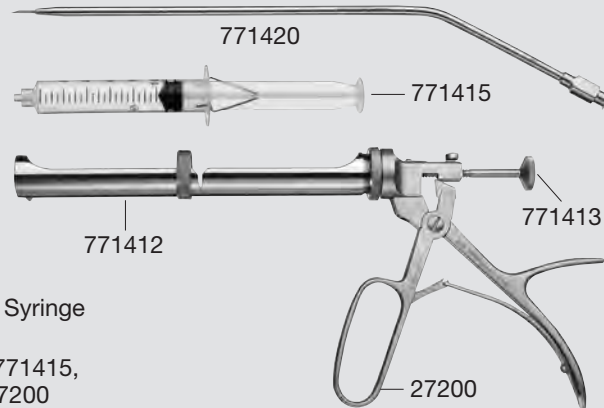
High Pressure Syringes

Components / Spare Parts

Catalog page

771410 PERETTI High Pressure Syringe, for fat injection

584



27200 **High Pressure Handle**, for use with Syringe Holder 771412

771412 **Syringe Holder**, for Plastic Syringe 771415, for use with High Pressure Handle 27200

771413 **Pusher**, for use with High Pressure Handle 27200 with Plastic Syringe 771415

771415 **Plastic Syringe**, spring-action, self-retaining, 10 ml, sterile, for single use, package of 25

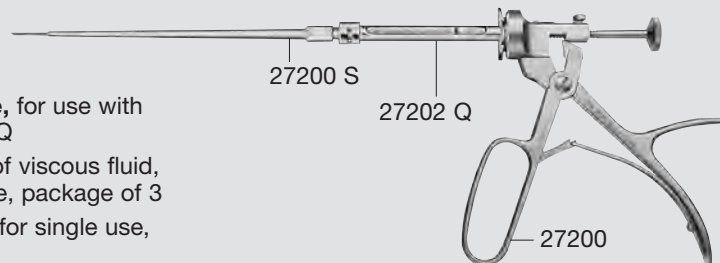
771420 **Injection Cannula**, angular, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 0.8 mm, working length 20 cm, package of 3

Components / Spare Parts

Catalog page

771400 High Pressure Syringe, for viscous fluid injection

585



27200 **High Pressure Handle**, for use with Syringe Holder 27201 Q

27200 B **Adaptor**, for injection of viscous fluid, for filling plastic syringe, package of 3

27200 P **Plastic Syringe**, 1 ml, for single use, package of 100

27202 Q **Syringe Holder**, for plastic syringe, package of 3

27200 S **Injection Cannula**, LUER-Lock, outer diameter of syringe 1.3 mm, inner diameter 0.8 mm, working length 23 cm, package of 3

Components / Spare Parts

Catalog page

27200 High Pressure Handle, for 771400 and 771410

—

Spare Part



5932200
Sealing Ring



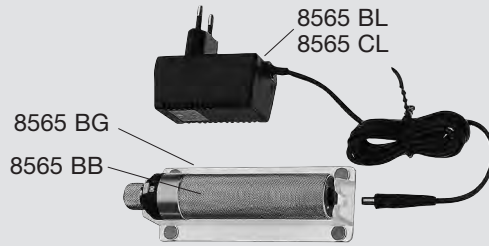
Miscellaneous

Battery Handles

Components / Spare Parts

Catalog page

- 8565 B** **Battery Handle, 3.5 Volt**
- 8565 BB **Handle**
- 8565 BG **Rack**
- 8565 BL **Charger, power supply 220 – 240 VAC**



19

- 8565 C** **Battery Handle, 3.5 Volt**
- 8565 BB **Handle**
- 8565 BG **Rack**
- 8565 CL **Charger, power supply 115 VAC**

Components / Spare Parts

Catalog page

- 8565 BB** **Battery Handle, 3.5 Volt**



—

Spare Part



8565 E
Battery Cell

Components / Spare Parts

Catalog page

- 8565 BC** **Battery Handle, 3.5 Volt, for 121320**



—

Spare Part



8565 BCE
Battery Cell, 3.5 Volt

Miscellaneous

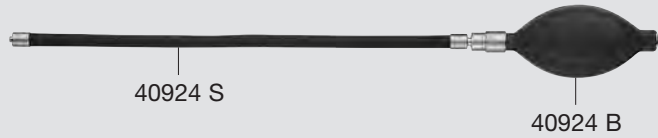
Rubber Insufflation Bulb, Laryngoscope Holders and Chest Supports

Components / Spare Parts

Catalog page

- 40924** **Rubber Insufflation Bulb**
- 40924 B **Rubber Bulb**
- 40924 S **Rubber Tube**

600



Components / Spare Parts

Catalog page

- 8575 K** **Laryngoscope Holder and Chest Support, GÖTTINGEN model**
- 8575 KA **Laryngoscope Holder, GÖTTINGEN model, with adjustment wheel**
- 8575 KB **Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm**

536, 548, 616-617



Spare Part



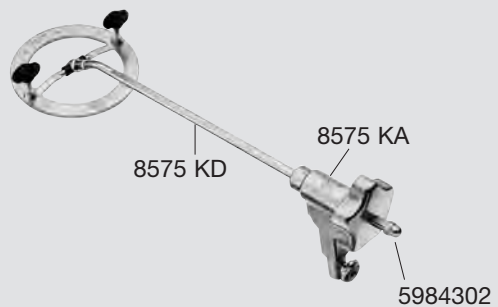
5984302
Cap Nut

Components / Spare Parts

Catalog page

- 8575 KC** **BENJAMIN-PARSONS Laryngoscope Holder and Chest Support**
- 8575 KA **Laryngoscope Holder, GÖTTINGEN model, with adjustment wheel**
- 8575 KD **BENJAMIN-PARSONS Support Rod, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm**

548, 616-617



Spare Part



5984302
Cap Nut

Miscellaneous

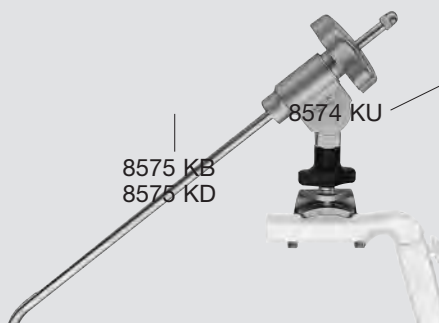
Laryngoscope Holders and Chest Supports

Components / Spare Parts

Catalog page

- 8574 KW** BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support** 544, 546
- 8574 KU **Laryngoscope Holder**, GÖTTINGEN model, with adjustment wheel
- 8575 KD BENJAMIN-PARSONS **Support Rod**, moveable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

- 8574 KT** **Laryngoscope Holder and Chest Support**, GÖTTINGEN model
- 8574 KU **Laryngoscope Holder**, with adjustment wheel
- 8575 KB **Support Rod**, movable, with metal ring, diameter 9 cm, length 34 cm



— 5984302

Spare Part



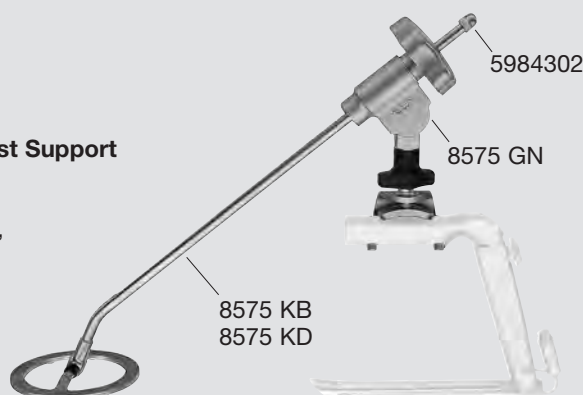
5984302
Cap Nut

Components / Spare Parts

Catalog page

- 8575 KW** LEWY **Laryngoscope Holder and Chest Support** 547
- 8575 GN LEWY **Laryngoscope Holder**
- 8575 KD **Support Rod**, movable, with metal ring, diameter 12 cm, length 34 cm

- 8575 KT** LEWY **Laryngoscope Holder and Chest Support**
- 8575 GN LEWY **Laryngoscope Holder**
- 8575 KB **Support Rod**, movable, with metal ring, diameter 9 cm, length 34 cm



Spare Part



5984302
Cap Nut

Miscellaneous

Support Table, Chest Support

Components / Spare Parts

Catalog page

8575 L **Support Table, GÖTTINGEN model**

549

- 8575 LC **Swivel Arm**, with movable plate
- 8575 LB **Holding Rod**, for height adjustment
- 8575 LA **Attachment Blocks**, can be mounted on operation table equipped with standard sliding rail 25 x 10 mm

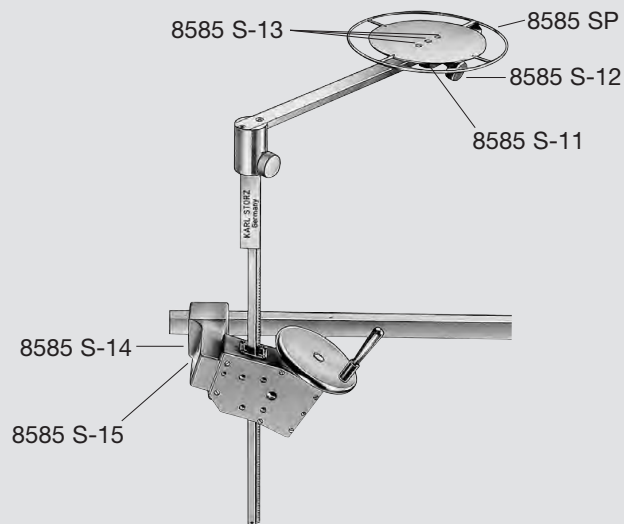


Components / Spare Parts

Catalog page

8585 S **Chest Support, LÜBECK model**

550



Spare Parts



8585 SP
Plate, with ring



8585 S-13
Screw, for fixing Plate 8585 SP to Slide Block 8585 S-11, set of 3



8585 S-11
Slide Block, for Plate 8585 SP and Fixation Screw 8585 S-12



8585 S-14
Clamp, for Chest Support 8585 S, for fixation of the chest support at the OR table



8585 S-12
Fixation Screw, serrated, M8 x 24, for the fixation of the support plate at the swivel arm



8585 S-15
Fixation Screw

Miscellaneous

Micro Saws

Components / Spare Parts

Catalog page

254000 Oscillating Micro Saw

91



Spare Parts



254020 Fork Wrench



254021 Swivel Nut

Components / Spare Parts

Catalog page

254100 Micro Sagittal Saw

92



Spare Parts



254020 Fork Wrench



254021 Swivel Nut

Components / Spare Parts

Catalog page

254200 Osseo Scalpel, Micro Saw

92



Spare Parts



254020 Fork Wrench



254021 Swivel Nut

Components / Spare Parts

Catalog page

254300 Micro Compass Saw

93



Spare Parts



254020 Fork Wrench



254021 Swivel Nut

Motor Systems

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO,
Universal Spray

Components / Spare Parts

Catalog page

- 40701601-1 UNIDRIVE® S III ENT SCB**
- 40701620-1 **UNIDRIVE® S III ENT with KARL STORZ-SCB**
400 A **Mains Cord**
- 20711680 **Irrigator Rod**
- 20016630 **Two-Pedal Footswitch**, two-stage,
with proportional function
- 20711640 **Silicone Tubing Set**, for irrigation, sterilizable
- 20711621 **Clip Set**, for use with silicone tubing set 20711640
- 20090170 **SCB Connecting Cable**, length 100 cm
- 031131-03* **Single Use Tubing Set**, sterile, package of 3



40701620-1

- 40701401 UNIDRIVE® S III ECO**
- 40701420 **UNIDRIVE® S III ECO**, power supply 100 – 120,
230 – 240 VAC, 50/60 Hz
- 400 A **Mains Cord**
- 20016630 **Two-Pedal Footswitch**, two-stage,
with proportional function
- 20711640 **Silicone Tubing Set**, for irrigation, sterilizable
- 20711621 **Clip Set**, for use with silicone tubing set 20711640
- 031131-03* **Single Use Tubing Set**, sterile, package of 3



40701420

Spare Parts



2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10



2107890
Fuse Holder, for
power supply socket

Components / Spare Parts

Catalog page

- 280053 Universal Spray**, 6x 500 ml bottles
- 280053 B **Universal Spray**, 500 ml
- 280053 C **Spray Nozzle**



280053 B



280053 C



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Motor Systems

Suction Shaver Blades, Cleaning Adaptor



| Components / Spare Parts | | Catalog page |
|--------------------------|--------------|--------------|
| 41201 KN | Shaver Blade | 217 |
| 41201 KK | Shaver Blade | 217 |
| 41201 GN | Shaver Blade | 217 |
| 41201 LN | Shaver Blade | 217 |
| 41201 SN | Shaver Blade | 217 |
| 41201 KSA | Shaver Blade | 217 |
| 41201 KKSA | Shaver Blade | 217 |
| 41201 KKSB | Shaver Blade | 217 |
| 41201 LSA | Shaver Blade | 217 |
| 41202 KN | Shaver Blade | 218 |
| 41204 KKF | Shaver Blade | 218 |
| 41204 KKB | Shaver Blade | 218 |
| 41204 KKFA | Shaver Blade | 218 |
| 41204 KKBA | Shaver Blade | 218 |
| 41203 KNF | Shaver Blade | 219 |
| 41203 KNB | Shaver Blade | 219 |
| 41203 KKF | Shaver Blade | 219 |
| 41203 KKB | Shaver Blade | 219 |
| 41203 KKFA | Shaver Blade | 219 |
| 41203 KKBA | Shaver Blade | 219 |
| 41203 GNF | Shaver Blade | 219 |
| 41203 GNB | Shaver Blade | 219 |



Spare Part



5920820
**O-Ring Set for ENT
Shaver Attachments,**
including:
5x O-Ring, 8 x 1 mm
1x O-Ring, 4 x 1 mm

| Components / Spare Parts | | Catalog page |
|--------------------------|-----------------------------------|--|
| 41200 RA | Cleaning Adaptor | 217-219 |
| 41200 RA1 | Cleaning Adaptor for Inner Blades |  41200 RA1  41200 RA2 |
| 41200 RA2 | Cleaning Adaptor for Outer Blades | |

Motor Systems

INTRA Drill Handpieces

Components / Spare Parts

Catalog page

- 252570 INTRA Drill Handpiece
- 252573 INTRA Drill Handpiece
- 252590 INTRA Drill Handpiece



- 85
- 85
- 85

Spare Part

252510
Irrigation Tube

Components / Spare Parts

Catalog page

- 252571 INTRA Drill Handpiece
- 252574 INTRA Drill Handpiece
- 252591 INTRA Drill Handpiece



- 225
- 225
- 225

Spare Part

252511
Irrigation Tube

Components / Spare Parts

Catalog page

- 252572 INTRA Drill Handpiece
- 252575 INTRA Drill Handpiece
- 252592 INTRA Drill Handpiece



- 226
- 226
- 226

Spare Part

252512
Irrigation Tube

Motor Systems

High-Speed Handpieces

Components / Spare Parts

Catalog page

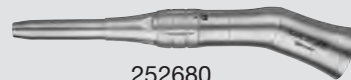
252680 High-Speed Handpiece

97

Spare Part



252610
Irrigation Tube



252680

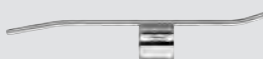
Components / Spare Parts

Catalog page

252681 High-Speed Handpiece

97, 231

Spare Part



252611
Irrigation Tube



252681

Components / Spare Parts

Catalog page

252682 High-Speed Handpiece

231

Spare Part



252612
Irrigation Tube



252682

Components / Spare Parts

Catalog page

252660 High-Speed Handpiece

98

252690 High-Speed Handpiece

98

Spare Part



252614
Irrigation Tube



252660

Components / Spare Parts

Catalog page

252661 High-Speed Handpiece

98, 232

252691 High-Speed Handpiece

98, 233

Spare Parts



252615
Irrigation Tube



252661

Components / Spare Parts

Catalog page

252662 High-Speed Handpiece

232

252692 High-Speed Handpiece

233

Spare Part



252616
Irrigation Tube



252662

Components / Spare Parts

Catalog page

252663 High-Speed Handpiece

232

Spare Part



252617
Irrigation Tube



252663

Miscellaneous

SCHMÄL **CARTCUT®** Cartilage Cutter,
 STAMMBERGER-SACHSE Intra-nasal Drill,
 BOWMAN Lachrymal Probe, Training Model

| Components / Spare Parts | | Catalog page |
|--------------------------|---|--------------|
| 523950 | SCHMÄL CARTCUT® Cartilage Cutter | 150 |
| 523951 | Holding Device | |
| 523952 | Cleaning Adaptor | |
| 523954 | Holding-down Clamp | |
| 523956 | Knife, 1 mm | |
| 523958 | Knife, 2 mm | |

| Components / Spare Parts | | Catalog page |
|--------------------------|--|--------------|
| 660000 | STAMMBERGER-SACHSE Intra-nasal Drill | 229, 317 |
| 660000 A | Double Ring Sliding Handle , for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece | |
| 660000 T | Guide Sheath , outer diameter 5 mm, with irrigation stopcock | |
| 660074 SF | Diamond Abrador , delicate, spherical, diameter 2.5 mm | |
| 660074 SG | Diamond Abrador , delicate, spherical, diameter 3 mm | |
| 660074 SK | Diamond Abrador , delicate, conical, from diameter 2.5 mm to diameter 3 mm | |

| Components / Spare Parts | | Catalog page |
|--------------------------|--------------------------------|--------------|
| 634840 | BOWMAN Lachrymal Probe | 311, 315 |
| 745830 | Probe , size 0000 – 000 | |
| 745800 | Probe , size 00 – 0 | |
| 745802 | Probe , size 1 – 2 | |

| Components / Spare Parts | | Catalog page |
|--------------------------|--|--------------|
| 723128 | Training Model | 318 |
| 723128 A | Section Plane 1: Front Plate | |
| 723128 B | Section Plane 2: Turbinate/Septum | |
| 723128 C | Section Plane 3: Maxillary Sinus | |
| 723128 D | Section Plane 4: Ethmoidal Cells | |
| 723128 E | Section Plane 5: Sphenoidal Sinus | |
| 723128 F | Base Plate | |
| 723128 G | Mask | |
| 723128 H | Case | |
| 723128 K | Documentation Atlas | |

Miscellaneous

Holding Systems

Components / Spare Parts

Catalog page

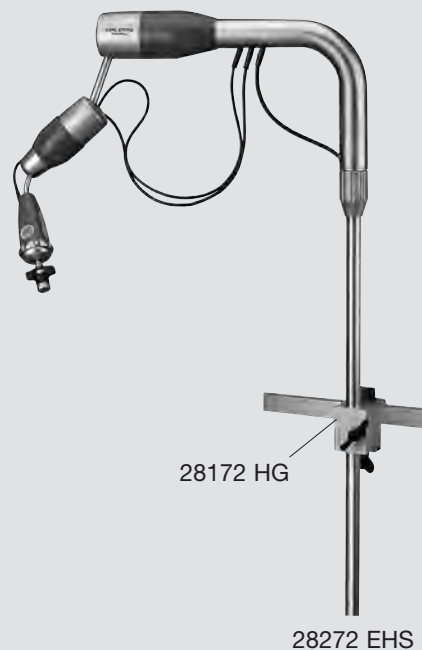
| | | |
|------------------|---|-----|
| 28272 RKB | Holding System, autoclavable , with quick release coupling KSLOCK | 203 |
| 28172 HR | Rotation Socket , to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand | |
| 28272 HB | Articulated Stand , reinforced version, L-shaped, with one central clamp for all five joint functions, height 48 cm, swivel range 52 cm, with quick release coupling KSLOCK (female) | |
| 28272 UKN | Clamping Jaw , metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths | |



Components / Spare Parts

Catalog page

| | | |
|-----------------|--|-----|
| 28272 EC | ENDOCRANE® , piezoregulated holding arm | 744 |
| 28272 ECS | ENDOCRANE® Arm , including stand | |
| 28172 HG | Socket , to clamp to the OR table | |
| 20780020 | Control Unit | |
| 040146-25* | Cover , sterile, package of 25 | |
| 28272 ECW | Spring Balance | |
| 400 A | Mains Cord , length 300 cm | |



Miscellaneous

Holding Systems – Accessories

Components / Spare Parts

Catalog page

- 20031002 Air Compressor**, for POINT SETTER®
- 20031020 **Air Compressor**, 0 – 8 bar, power supply 230 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg
- 27630022 **Fabric Reinforced Tube**, for connecting CALCUSPLIT® SCB 27630020
- 28172 WC **Connecting Tube**, length 600 cm, for use with for POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar



20031002

750

Components / Spare Parts

Catalog page

- 20031002 C Air Compressor**, for POINT SETTER®
- 20031020 C **Air Compressor**, 0 – 8 bar, power supply 115 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg
- 27630022 **Fabric Reinforced Tube**, for connecting CALCUSPLIT® SCB 27630020
- 28172 WC **Connecting Tube**, length 600 cm, for use with for POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar



20031002 C

750

Components / Spare Parts

Catalog page

- 20020059 STOR-E® Transport Cart**, for POINT SETTER®
- 20020053 **Mobile Stand**, for POINT SETTER®
- 20020050 **Attachment Set**, for POINT SETTER®
- 29005 AK **Wire Basket**



751

Miscellaneous

NAV1® PICO

Components / Spare Parts

Catalog page

| | |
|----------|--|
| 40800001 | NAV1® PICO |
| 40800020 | Panel PC , including installed ENT navigation software and passive touch pen |
| 40800028 | Optical Mouse |
| 40800030 | Camera |
| 40800040 | Electronic Box |
| 40800050 | Docking Adaptor , for panel PC, with CD-RW/DVD-ROM |
| 40800060 | Stand , mobile, with locking knob for camera |
| 40800072 | Data Cable |
| 40800074 | VGA Cable |
| 40800076 | Camera Cable |
| 40800080 | Headband with Plastic Holder |
| 40800087 | Patient Tracker II , with glass marker spheres, autoclavable |
| 40800090 | Case , for panel PC, camera, electronic box, mobile stand and connecting cables |
| 40800110 | Navigation Probe , with glass marker spheres, autoclavable |
| 400 A | Mains Cord , length 300 cm |

713



Suction and Irrigation Systems

CLEARVISION® II

Components / Spare Parts

Catalog page

- 40334101 **CLEARVISION® II**, lens irrigation system for endoscopes
- 40334120 **CLEARVISION® II**, power supply 100 – 240 VAC, 50/60 Hz
- 400 A **Mains Cord**
- 20014230 **One-Pedal Footswitch**
- 40334140 **Silicone Tubing Set**, sterilizable

200



40334120

Spare Part



2027390
Mains Fuse,
T 1.0 A (SB),
package of 10

Components / Spare Parts

Catalog page

- 40334140 **Silicone Tubing Set**, for irrigation

—



Spare Parts



20330088
Puncture Needle,
for irrigation bottle



2724190
LUER-Lock Tube Connector, male,
tube diameter 2 mm



2723091
Connector, large tube
diameter



40334180
Pump Tube,
for CLEARVISION®II,
sterilizable, package of 25



2727291
Connector, small tube
diameter

High Frequency Surgery Units

AUTOCON® II 400 SCB, AUTOCON® 200

Components / Spare Parts

Catalog page

AUTOCON® II 400 SCB

418



20535220-111/20535220-112/20535220-113
20535220-114/20535220-115/20535220-116

| | | | |
|---|---------------------|---------------------|---------------------|
| AUTOCON® II 400 SCB, Set | 20535201-111 | 20535201-112 | 20535201-113 |
| AUTOCON® II 400 SCB, power supply 230 VAC, 50/60 Hz | 20535220-111 | 20535220-112 | 20535220-113 |
| Mains Cord, length 300 cm | 400 A | 400 A | 400 A |
| SCB Connecting Cable, length 100 cm | 20090170 | 20090170 | 20090170 |
| AUTOCON® II 400 SCB, Set | 20535201-114 | 20535201-115 | 20535201-116 |
| AUTOCON® II 400 SCB, power supply 230 VAC, 50/60 Hz | 20535220-114 | 20535220-115 | 20535220-116 |
| Mains Cord, length 300 cm | 400 A | 400 A | 400 A |
| SCB Connecting Cable, length 100 cm | 20090170 | 20090170 | 20090170 |

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Components / Spare Parts

Catalog page

20522501 AUTOCON® 200

420

20522520 **AUTOCON® 200,**
power supply 200 – 240 VAC,
50/60 Hz

400 A **Mains Cord,** length 300 cm

27809 **Adaptor,** for unipolar HF output,
diameter 4/5 mm



20522520

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

High Frequency Surgery Units

AUTOCON® 200

Components / Spare Parts

Catalog page

20522501 C AUTOCON® 200

420

20522520 C **AUTOCON® 200**,
power supply 100 – 120 VAC,
50/60 Hz

400 A **Mains Cord**, length 300 cm

27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm



20522520 C

Spare Part



2028090
Mains Fuse,
T 8.0 AL (SB),
package of 10

Components / Spare Parts

Catalog page

20522501-010 AUTOCON® 200

420

20522520-010 **AUTOCON® 200**, with ENDOCUT
function, power supply 200 – 240 VAC,
50/60 Hz

400 A **Mains Cord**, length 300 cm

27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm



20522520-010

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Components / Spare Parts

Catalog page

20522501C010 AUTOCON® 200

420

20522520C010 **AUTOCON® 200**, with ENDOCUT function,
power supply 100 – 120 VAC, 50/60 Hz

400 A **Mains Cord**, length 300 cm

27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm



20522520C010

Spare Part



2028090
Mains Fuse,
T 8.0 AL (SB),
package of 10

High Frequency Surgery Units

AUTOCON® 50

Components / Spare Parts

Catalog page

- 20520501** **AUTOCON® 50**
- 20520520 **AUTOCON® 50**,
power supply 100/120/230/240 VAC,
50/60 Hz
- 400 A **Mains Cord**, length 300 cm
- 27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm

422



20520520

Spare Part



2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10

Surgery Electrodes Set

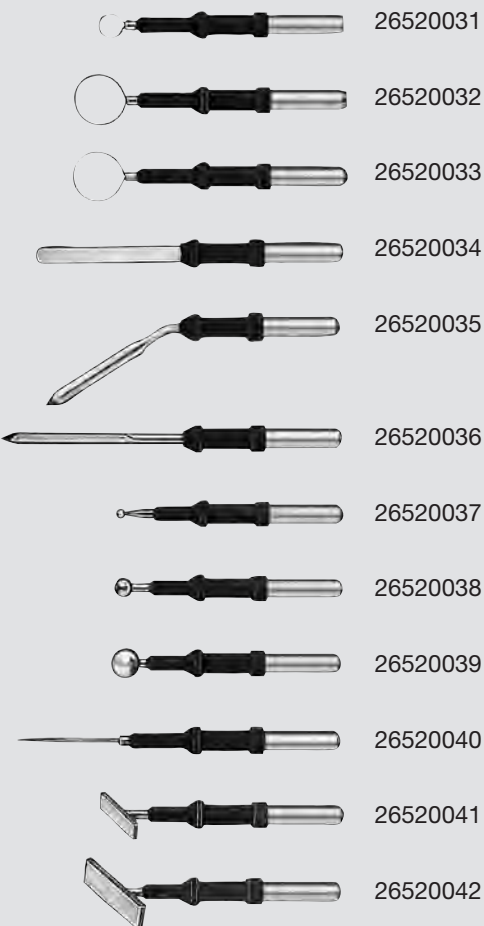
Components / Spare Parts

Catalog page

20530008 Surgery Electrodes Set

425

- 20530031 **Container with Lid and Sterilizing Insert,**
for 16 electrodes with diameter 4 mm
- 26520031 **Wire Snare, 5 mm**
- 26520032 **Wire Snare, 10 mm**
- 26520033 **Ribbon Snare, 10 mm**
- 26520034 **KIRSCHNER Spatula Electrode, straight**
- 26520035 **MAGENAU Knife Electrode, angled**
- 26520036 **MAGENAU Knife Electrode, lancet-shaped**
- 26520037 **Ball Electrode, 2 mm**
- 26520038 **Ball Electrode, 4 mm**
- 26520039 **Ball Electrode, 6 mm**
- 26520040 **Needle Electrode**
- 26520041 **Flat Electrode, 8 x 10 mm**
- 26520042 **Flat Electrode, 10 x 15 mm**





 **BÜHLER**
P H A R M A

 Km 2.5 Carretera Norte frente a Planta Eléctrica ENEL

 (+505) 2249-3616 ext. 117

 info@buhlerpharma.net

 (+505) 8232-2790

