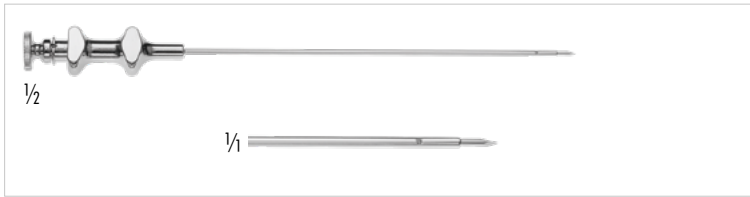




SINUSCOPY

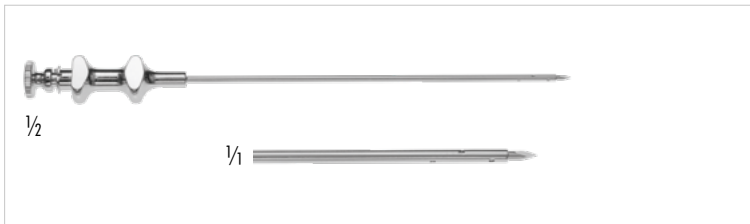
Instruments and
Equipment for
Sinuscopy



252-015-110 Ø 1,5 mm
252-020-110 Ø 2,0 mm

LICHTWITZ-BIER

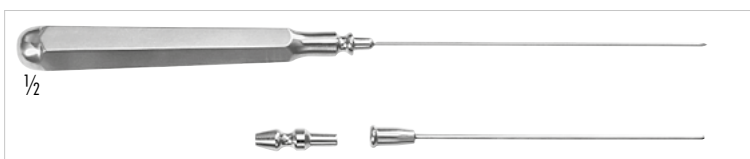
Kieferhöhlenpunktionskanüle mit Luer-Ansatz, 100 mm
Antrum trocar needle, Luer attachment, 4 inch



252-115-110 Ø 1,5 mm
252-118-110 Ø 1,8 mm
252-120-110 Ø 2,0 mm
252-125-110 Ø 2,5 mm

EICKEN

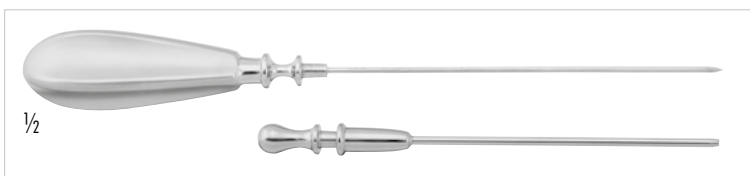
Kieferhöhlenpunktionskanüle mit Luer-Ansatz, 105 mm
Antrum trocar needle, Luer attachment, 4 inch



165-052-018

LICHTWITZ

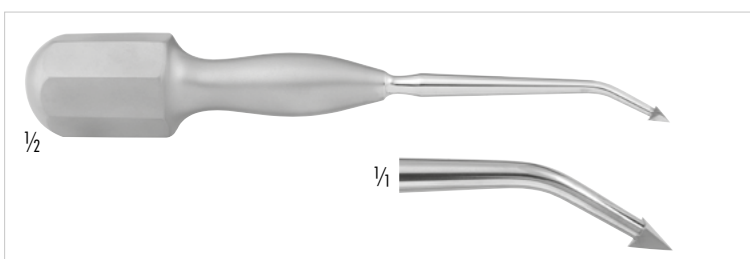
Kieferhöhlentrokar, Ø 1,8 mm, 180 mm, Arbeitslänge: 85 mm
Antrum trocar, Ø 1.8 mm, 7 inch, working length: 3 1/2 inch



165-152-017 Ø 1,7 mm 165-152-023 Ø 2,3 mm
165-152-020 Ø 2,0 mm 165-152-027 Ø 2,7 mm

TILLEY LICHTWITZ

Kieferhöhlentrokar, 185 mm
Antrum trocar, 7 1/4 inch



165-059-170 Ø 4 mm

TILLEY

Harpunentrokar, 170 mm
Harpoon trocar, 6 3/4 inch



252-025-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-025-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-025-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Kiefernhöhlenspülröhrchen, leicht gebogen, mit zentraler Öffnung und Luer-Ansatz, 130 mm
 Irrigating antrum cannula with central opening, slightly curved, Luer attachment, 5 1/8 inch



252-125-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-125-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-125-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Kiefernhöhlenspülröhrchen, stark gebogen, mit zentraler Öffnung und Luer-Ansatz, 140 mm
 Irrigating antrum cannula with central opening, strong curved, Luer attachment, 5 1/2 inch



252-225-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-225-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-225-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Antrum Kanüle, stark gebogen, mit Stoploch im Griff, Arbeitslänge: 150 mm
 Antrum Cannula, strong curved, with cut-off hole, working length: 6 inch



252-325-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-325-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-325-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Antrum Kanüle, leicht gebogen, mit Stoploch im Griff Arbeitslänge: 150 mm
 Antrum Cannula, slightly curved, with cut-off hole, working length: 6 inch



252-425-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-425-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-425-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Antrum Kanüle, leicht gebogen, biegsam, Arbeitslänge: 150 mm
 Antrum Cannula, slightly curved, malleable, working length: 6 inch

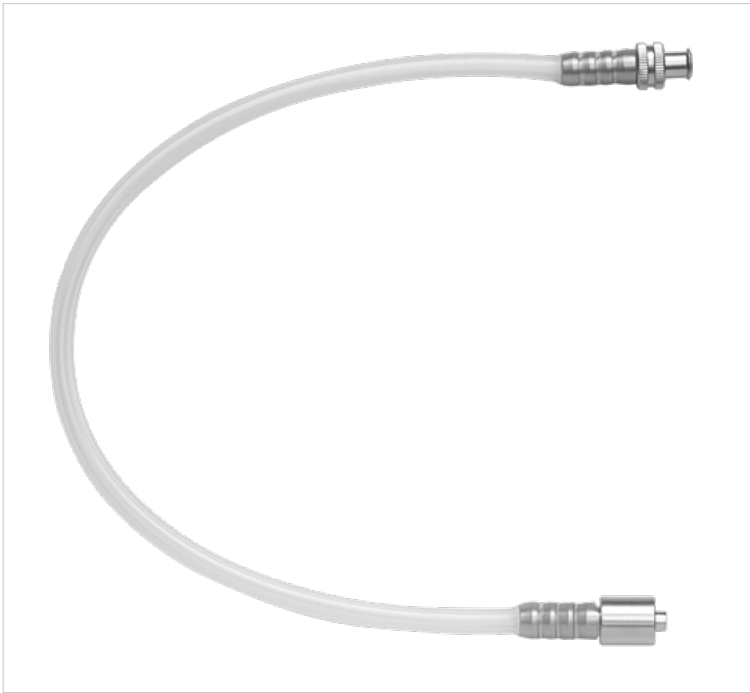


165-072-025 Ø 2,5 mm

SIEBENMANN

Kiefernhöhlenspülröhrchen, mit der Öffnung am äußeren Biegeradius, stumpf, 130 mm

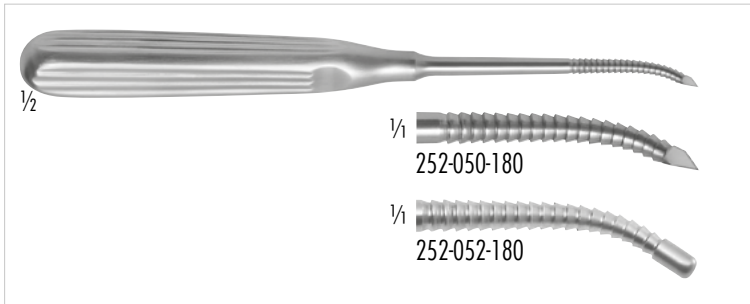
Irrigation antrum cannula, with outside opening, blunt, 5 1/8 inch



165-076-300

Spülschlauch, Silikon, autoklavierbar, komplett mit LUER-Lock Adapter, 300 mm

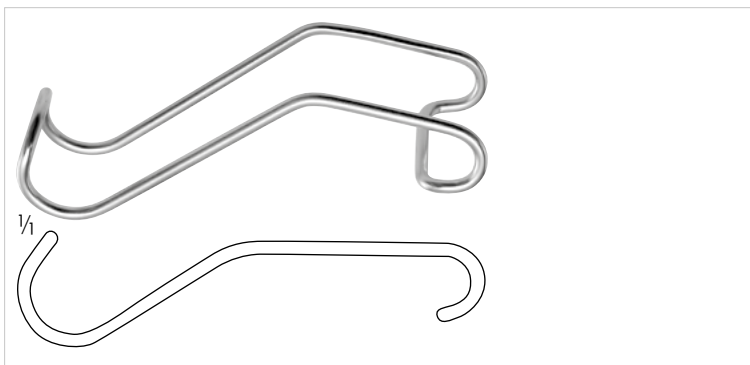
Irrigation tube, silicone, autoclavable, complete with LUER-Lock attachment, 12 inch



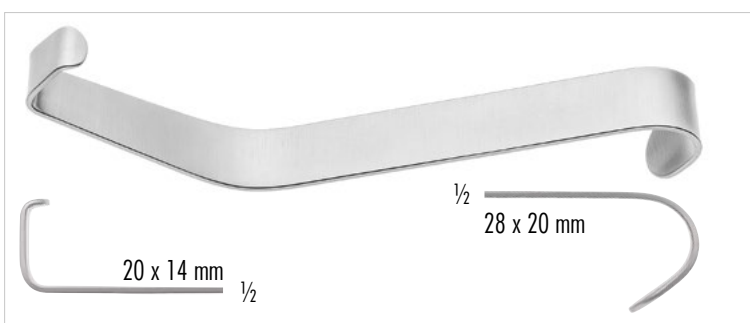
252-050-180 spitz / sharp
 252-052-180 stumpf / blunt
 Kieferhöhlen Trephine, amerikanisches Modell, 180 mm
 Antrum trephine, American pattern, 7 inch



252-053-170
FAULKNER
 Kieferhöhlenmeissel, 170 mm
 Antrum Chisel, 6 3/4 inch



430-301-120 120 mm, 4 3/4 inch
 430-301-130 140 mm, 5 1/2 inch
 430-301-135 160 mm, 6 1/4 inch
STERNBERG
 Wangenhalter
 Cheek retractor



170-285-165
HAJEK
 Wundhaken, 180 mm
 Wound retractor, 7 inch



170-293-001 30 x 11 mm
LANGENBECK
 Wundhaken, 220 mm
 Wound retractor, 8 3/4 inch



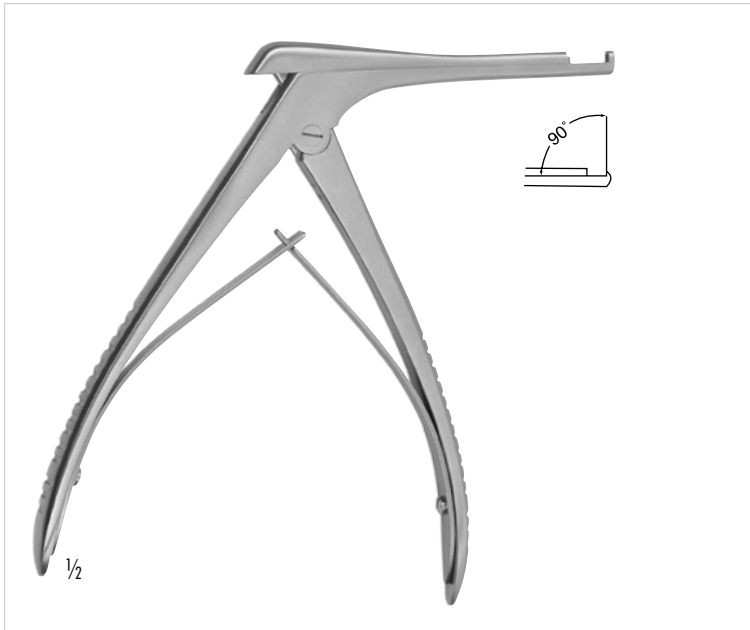
252-500-175 3mm Ausschnitt/bite
 252-499-175 2mm Ausschnitt/bite
 Stirnhöhlenstanze, 70° im Schaft aufgebogen,
 40° nach oben vorwärts schneidend, Arbeitslänge: 140mm
 Frontal Sinus Punch Forceps, sheath 70° upturned,
 40° upbiting forward, working length: 5½ inch



252-150-110
 Antrum Stanze, 65° vorwärts schneidend,
 3,5 x 3,7mm Schnitt
 Antrum Punch, 65° forward biting,
 3.5 x 3.7mm bite



252-151-110
 Antrum Stanze, 30° aufgebogen
 Antrum Punch, 30° upwards curved

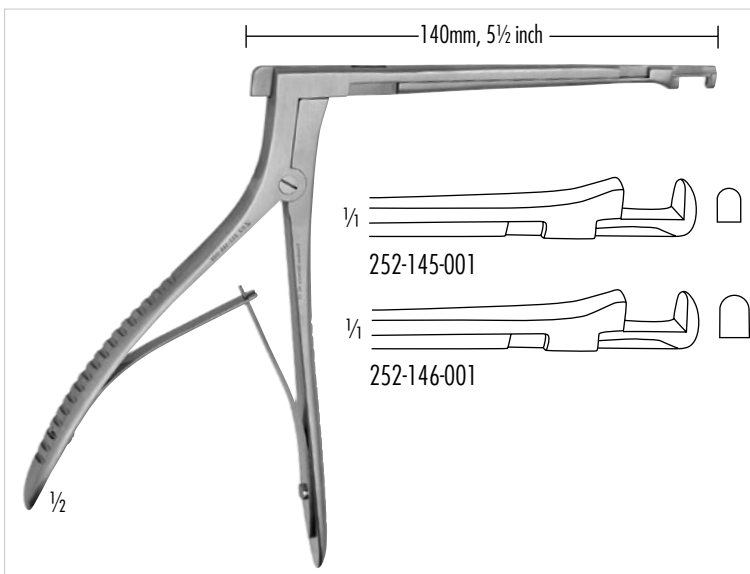


252-200-095 2 mm Schnitt / 2 mm bite
BEYER

Kieferhöhlenstanze, Arbeitslänge: 95 mm
Antrum Punch, working length: 3 3/4 inch

252-200-195

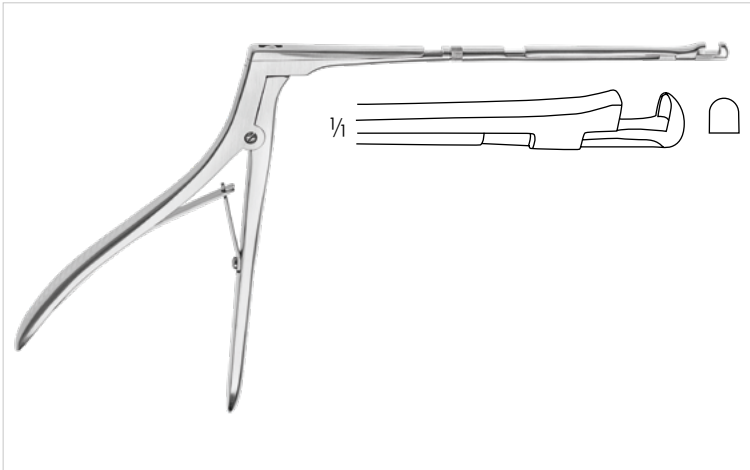
Dito, retrograd schneidend
Same, backward cutting



252-145-001 nach oben/upbiting
252-145-002 nach unten/downbiting
252-145-003 nach oben, rückwärts/upbiting, backward
252-145-004 nach unten, rückwärts/downbiting, backward
252-145-005 nach oben, vorwärts/upbiting, forward
252-146-001 nach oben/upbiting, 4.5 x 4.5 mm

HAJEK-KOFLER

Stanze, 3,5 x 3,5 mm, 140 mm
Punch, 3.5 x 3.5 mm, 5 1/2 inch



252-535-170 3,5 mm

HAJEK-KOFLER

Stanze, drehbar 360°, Arbeitslänge: 170 mm

Punch, rotating 360°, working length: 6 ¾ inch



252-147-170

CITELLI

Knochenstanze, 1,5 mm, durchschneidend, Arbeitslänge: 170 mm

Bone punch, 1.5 mm, through cutting, working length: 6 ¾ inch



252-148-170

BEYER

Knochenstanze, 2,0 mm, durchschneidend, Arbeitslänge: 170 mm

Bone punch, 2.0 mm, through cutting, working length: 6 ¾ inch



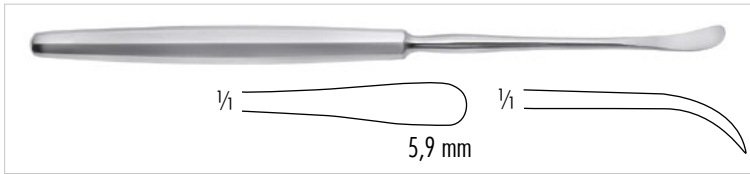
252-149-172 nach oben / upbiting

252-149-272 nach unten / downbiting

KERRISON

Knochenstanze, 2,0 mm, Arbeitslänge: 180 mm

Bone punch, 2.0 mm, working length: 7 inch



420-549-200 6 mm

SEWALLKieferhöhlen Elevator, stumpf, 200 mm
Antrum elevator blunt, 8 inch

252-009-000 4.5 mm Spitze / tip

252-009-001 6.5 mm Spitze / tip

FREERElevator, doppelendig, scharf/stumpf, 200 mm
Elevator, double-ended, sharp/blunt, 7 3/4 inch

252-025-210

KUHN-BOLGERDoppelinstrument, rechts abgewinkelter Haken, 210 mm
Double-instrument, hook angled to the right, 8 1/4 inch

252-025-190

Doppelinstrument zum Sondieren d. Ostium, kugelförmige
Enden 1,2 mm / 2,0 mm, 210 mm

Ostium probe, double-ended ball probe: 1.2mm / 2.0 mm, 8 1/4 inch



252-205-190 spitz/sharp

252-215-190 stumpf/blunt

Sichelmesser, spitz, 200 mm

Sickle knife, sharp, 7 3/4 inch



252-071-190 Gr. 1

252-082-190 Gr. 2

252-093-190 Gr. 3

Kieferhöhlenlöffel, oval, 200 mm

Antrum spoon, oval, 7 3/4 inch



252-171-190 rund, 45° gebogen/round, 45° curved

252-182-190 oval klein, gebogen/oval small, curved

252-193-190 oval groß, 30° gebogen/oval large, 30° angled

Kieferhöhlenlöffel, 200mm

Antrum spoon, 7 3/4 inch



252-027-190

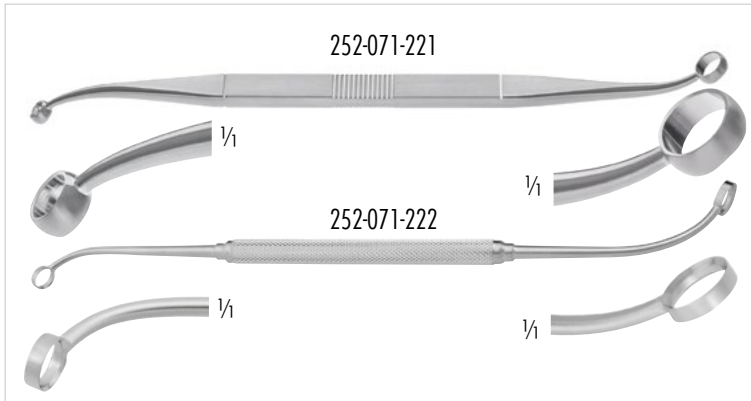
Doppelkürette, oval, kurz gebogen 45°, halbscharf: 2,2 mm,
andere Seite: 90° lang gebogen, 2,7 mm, 190 mmCurette, double-ended, oval, short curve 45°, semi-sharp: 2.2 mm
Other side: 90° long curve: 2.7 mm, 7 1/2 inch

252-071-220

FAULKNER

Kieferhöhlenkürette, 220 mm

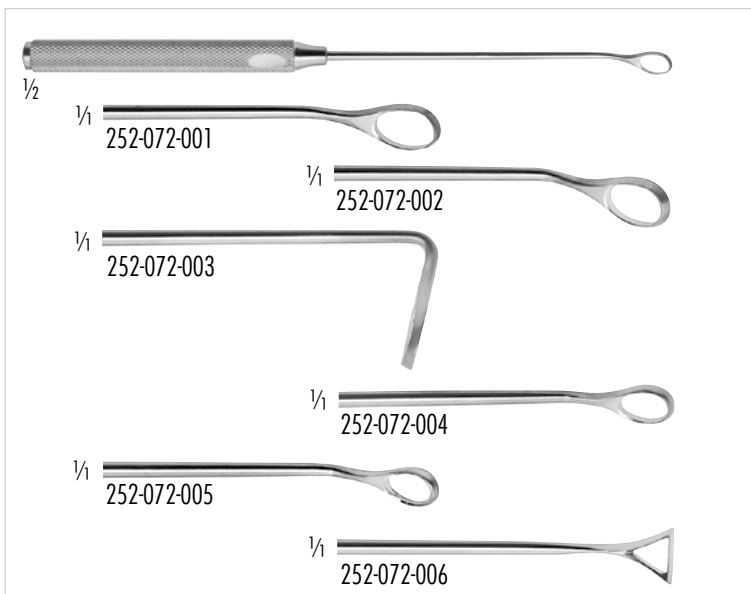
Antrum curette, 8 1/2 inch



- 252-071-221 klein, Ringgröße 5 x 8 mm
small, ringsize 5 x 8 mm
- 252-071-222 groß, Ringgröße 6 x 9 mm
large, ringsize 6 x 9 mm

FAULKNER

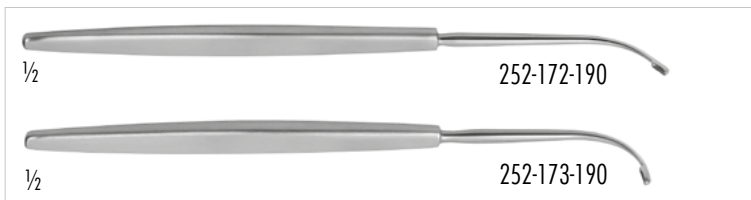
Kieferhöhlenkürette, biegsam, 220 mm
Antrum curette, malleable, 8 ¾ inch



- 252-072-001 Fig. 1
252-072-002 Fig. 2
252-072-003 Fig. 3
252-072-004 Fig. 4
252-072-005 Fig. 5
252-072-006 Fig. 6

COAKLEY

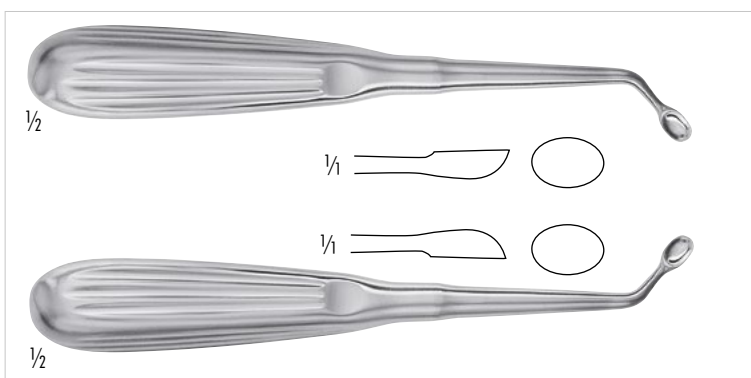
Kieferhöhlenkürette, 170 mm
Antrum curette, rigid shank, 6 ¾ inch



- 252-172-190 55° gebogen/curved
252-173-190 90° gebogen/curved

KUHN-BOLGER

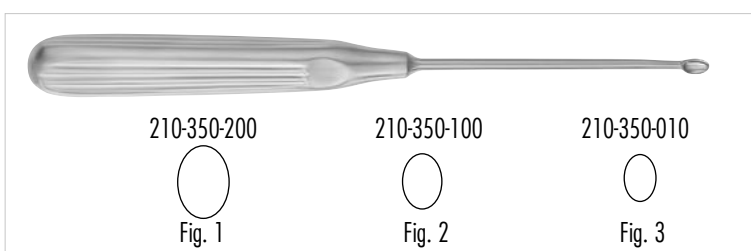
Kieferhöhlenlöffel, 190 mm
Antrum spoon, 7 ½ inch



- 210-345-007 rechts gebogen/right curved
210-347-007 links gebogen/left curved

UFFENORDE

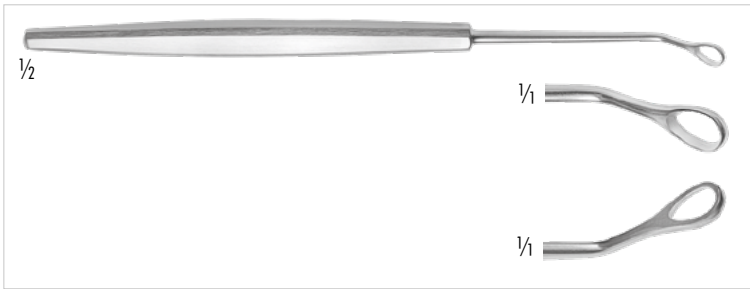
Kieferhöhlenlöffel, 170 mm
Antrum spoon, 6 ¾ inch



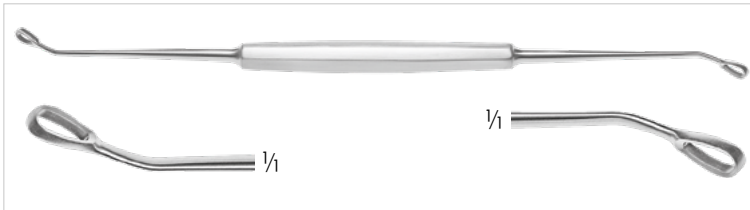
- 210-350-200 4,8 mm Fig. 1
210-350-100 5,8 mm Fig. 2
210-350-010 6,8 mm Fig. 3

HALLE

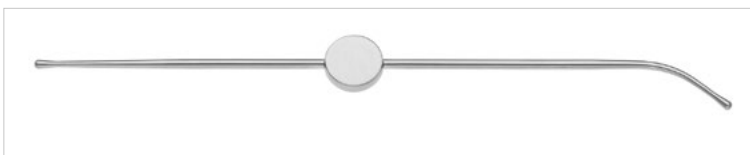
Scharfe Löffel, biegsam, 210 mm
Antrum spoon, malleable, sharp, 8 ¼ inch



252-113-190 vorwärts schneidend/forward cutting
 252-114-190 rückwärts schneidend/backward cutting
COAKLEY
 Kieferhöhlenkürette, klein, 200 mm
 Antrum curette, small, 7 3/4 inch



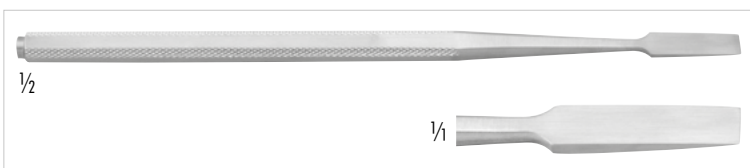
252-072-245
HALLE
 Kieferhöhlenkürette, 200 mm
 Antrum curette, 7 3/4 inch



252-073-200
 Kieferhöhlensonde, 200 mm
 Antrum probe, 7 3/4 inch



252-140-190 4 mm
WEST
 Hohlmeißel, 190 mm
 Gouge, 7 1/2 inch



252-040-190 4 mm
WEST
 Flachmeißel, 190 mm
 Chisel, 7 1/2 inch



252-041-012 12 mm
 252-041-017 17 mm
 Spatel, biegsam, 200 mm
 Spatula, malleable, 7 3/4 inch



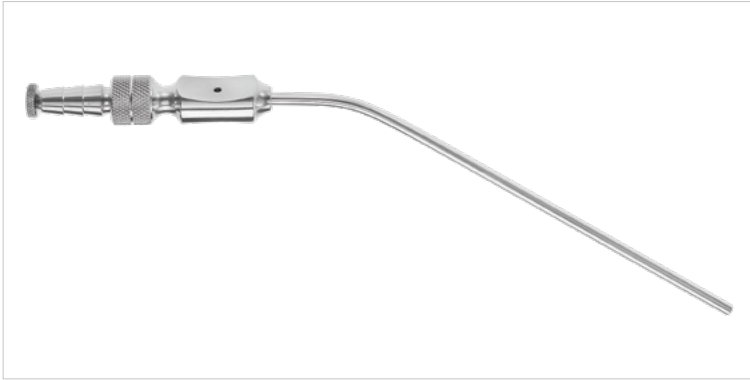
252-042-235
 Orbitalschützer, 235 mm
 Orbital protector, 9 1/4 inch



252-043-025 Ø 2,5 mm
 252-043-030 Ø 3,0 mm
 252-043-040 Ø 4,0 mm
 252-043-050 Ø 5,0 mm

RITTER

Stirnhöhlendilatator, 160 mm
 Frontal sinus bougies, 6 1/4 inch



165-525-006 6 Charr./Fr.
 165-525-007 7 Charr./Fr.
 165-525-008 8 Charr./Fr.
 165-525-010 10 Charr./Fr.
 165-525-012 12 Charr./Fr.

FERGUSSON

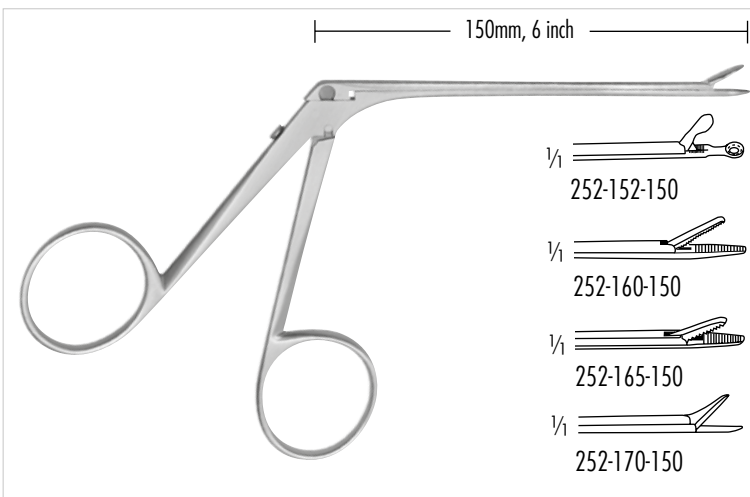
Saugkanüle, 180 mm
 Suction tube, 7 inch



252-025-180

FISCH

Saug-Spülrohr, 2,5 x 2,0 mm, 180 mm
 Suction-Irrigation tube, 2.5 x 2.0mm, 7 inch



252-152-150 Ø 2,0 mm
 Löffelzängchen, runder Löffel
 Cupped forceps, round cup

252-160-150
 Faßzängchen, fein gerieft
 Grasping forceps, fine serrations

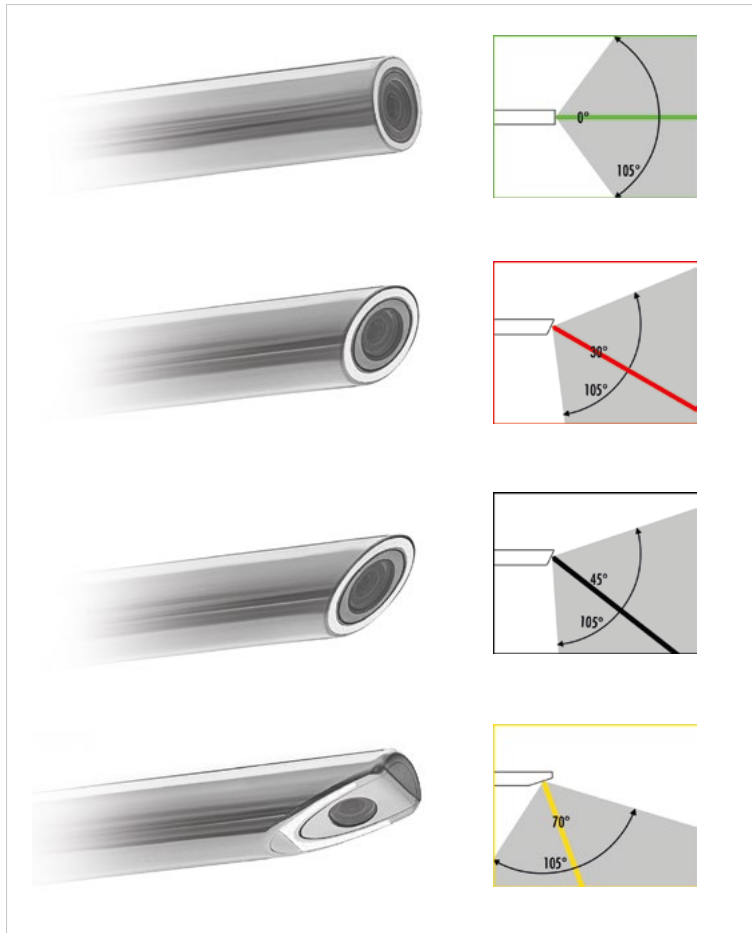
252-165-150
 Faßzängchen, grob gerieft
 Grasping forceps, coarse serrations

252-170-150
 Scherchen
 Scissors

FULL HD

Colour coding of degree:
Farbliche Kennzeichnung der Gradzahl:

0° 30° 45° 70°



- Removable eyepiece for C-mount connection or RZ QuickSnap locking
- 3-step light post adaptors to connect the most common light cables directly to the endoscope
- Sapphire glasses ensure highest stability against damages on the lens system
- Optimised glass fibre arrangements ensure an uniform image brightness of highest quality
- Full HD high definition pictures with increased detail-resolution through newest CAD-designed rod-lens systems
- Fully Autoclavable at 134°C and 2.3bar
- Abnehmbares Okular für C-Mount-Anschluss oder RZ QuickSnap-Verschluss
- 3-Stufen-Adapter zum Anschluss der gängigsten Lichtkabel, direkt am Endoskop anschließbar
- Saphirgläser sorgen für höchste Stabilität gegen Beschädigungen am Linsensystem
- Optimierte Glasfaseranordnungen sorgen für eine gleichmäßige Bildhelligkeit von höchster Qualität
- Full HD hochauflösende Bilder mit erhöhter Detailauflösung durch neueste CAD-konstruierte Stablinsensysteme
- Vollständig autoklavierbar bei 134°C und 2,3bar



252-104-200 0°
252-104-230 30°
252-104-270 70°
Sinuskopie-Optiken, Kinder, autoklavierbar, 4,0 mm, 110 mm
Sinuscopes, pediatric, autoclavable, 4.0 mm, 4 1/3 inch

252-127-200 0°
252-127-230 30°
Sinuskopie-Optiken, Kinder, autoklavierbar, 2,7 mm, 110 mm
Sinuscopes, pediatric, autoclavable, 2.7 mm, 4 1/3 inch



252-104-000 0°
252-104-030 30°
252-104-045 45°
252-104-070 70°
Sinuskopie-Optiken, autoklavierbar, 4,0 mm, 180 mm
Sinuscopes, autoclavable, 4.0 mm, 7 inch

252-127-000 0°
252-127-030 30°
252-127-070 70°
Sinuskopie-Optiken, autoklavierbar, 2,7 mm, 180 mm
Sinuscopes, autoclavable, 2.7 mm, 7 inch



300-090-100

Schutzhülse, für 2,7 mm und 4,0 mm Optiken, 190 mm

Bestelleinheit: PH=Packung á 10 Stück

Protection tube, for 2.7 mm and 4.0 mm telescopes, 7 1/2 inch

Sales unit: PH=Package of 10 pieces



251-104-001 für 4 mm Optik / for 4 mm telescopes

251-127-001 für 2,5 mm Optik / for 2.7 mm telescopes

Optik Handgriff, flach, 120 mm

Telescope handle, flat, 4 3/4 inch

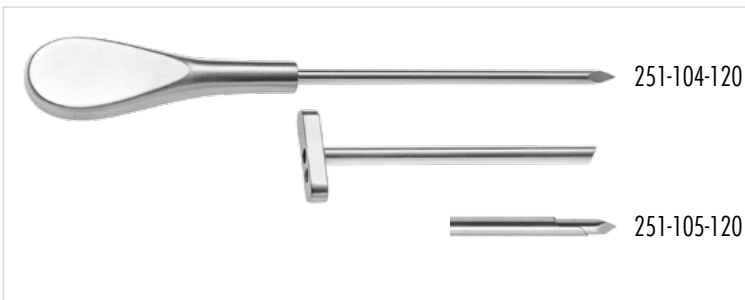


251-104-002 für 4 mm Optik / for 4 mm telescopes

251-127-002 für 2,5 mm Optik / for 2.7 mm telescopes

Optik Handgriff, rund, 120 mm

Telescope handle, round, 4 3/4 inch



251-104-120 schräges Schaftende/oblique sheath end

251-105-120 Duckbill Schaftende/Duckbill sheath end

251-127-120 für 2,7 mm Optik, 80 mm
for 2.7 mm telescope, 3 1/8 inch

Sinuskopie-Trokar und Trokarhülse für 4,0 mm Optik,

scharfer Trokar Ø 5,2 mm, 80 mm

Sinuscopy Trocar and Trocar sheath for 4.0 mm telescope,
sharp trocar Ø 5.2 mm, 3 1/8 inch

420-121-150 Fig. 1

420-122-150 Fig. 2

420-123-150 Fig. 3

HARTMANN-HALLE

Nasenspekulum, 155 mm

Nasal Specula, 6 inch



420-150-001 links/left 55mm, rechts/right 35mm

420-150-002 links/left 35mm, rechts/right 55mm

420-150-003 links/left 65mm, rechts/right 45mm

420-150-004 links/left 45mm, rechts/right 65mm

420-150-005 links/left 75mm, rechts/right 35mm

420-150-006 links/left 35mm, rechts/right 75mm

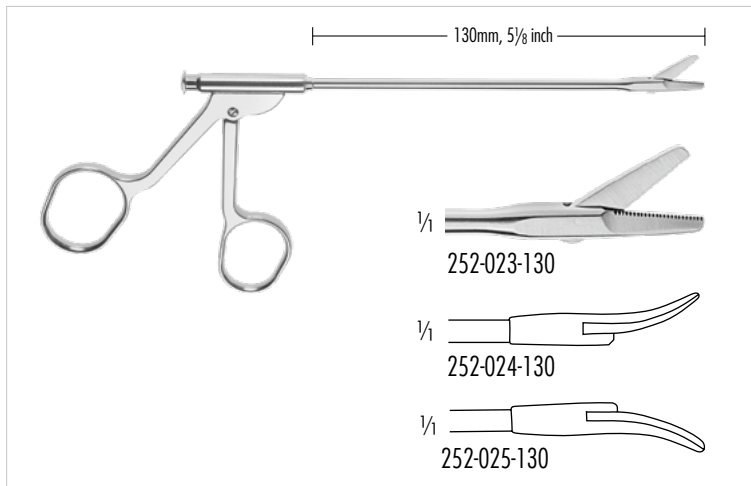
420-150-007 links/left 75mm, rechts/right 52mm

420-150-008 links/left 52mm, rechts/right 75mm

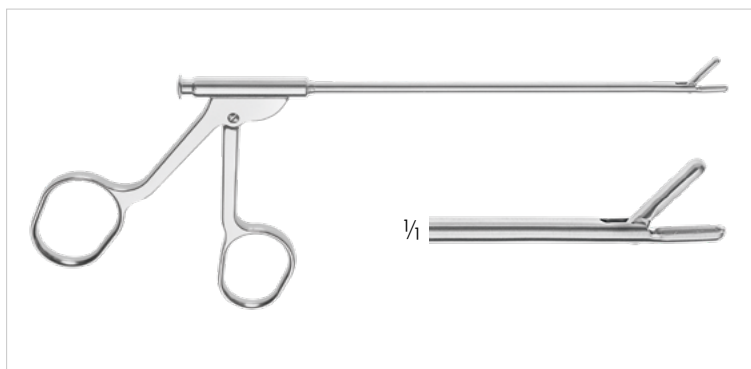
Sinus Spekula zur Verwendung mit flexiblen Spannarm,

mit Zähnen, mit Stellschraube

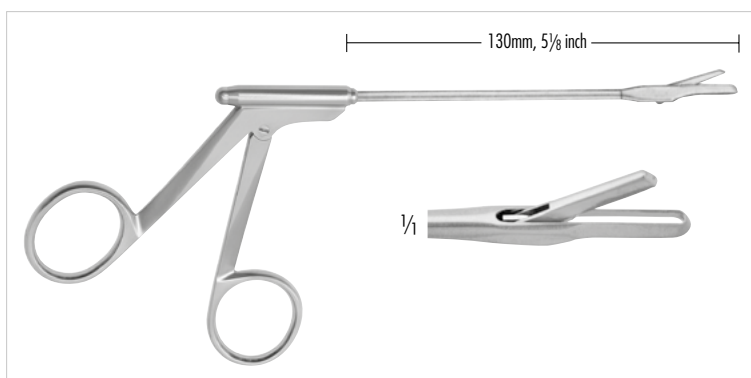
Sinus Specula for use with flexible arm, with teeth,
with set screw



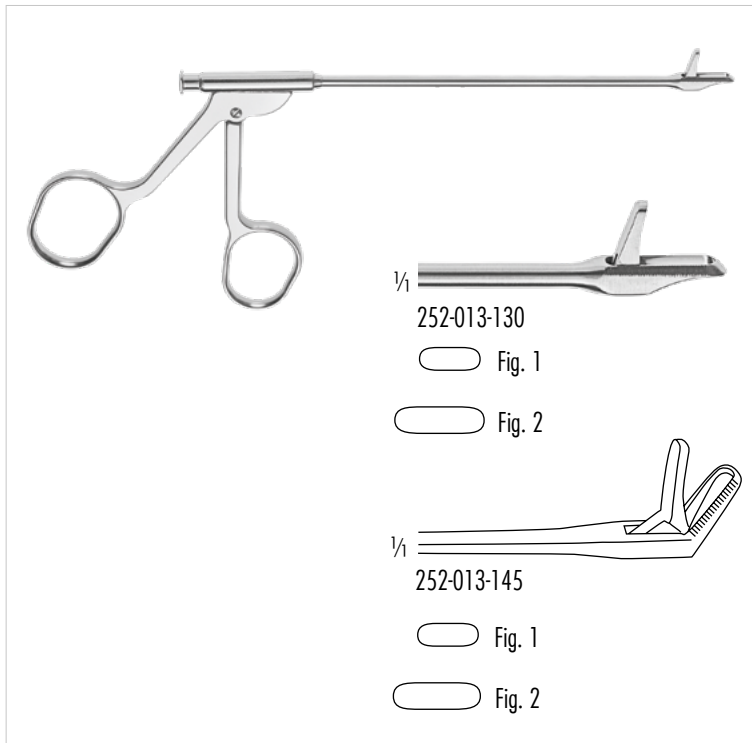
252-023-130 gerade/straight
 252-024-130 links gebogen/curved to left
 252-025-130 rechts gebogen/curved to right
 Nasenscheren, 130 mm
 Nasal scissors, 5 1/8 inch



252-002-130
TAKAHASHI
 Siebbeinzange, 3x10 mm, 130 mm
 Ethmoidal forceps, 3x10 mm, 5 1/8 inch



252-003-130
STRUYCKEN
 Siebbeinzange, 130 mm
 Ethmoidal forceps, 5 1/8 inch



252-013-130 Fig. 1 8 x 3 mm
252-014-135 Fig. 2 11,5 x 3,5 mm

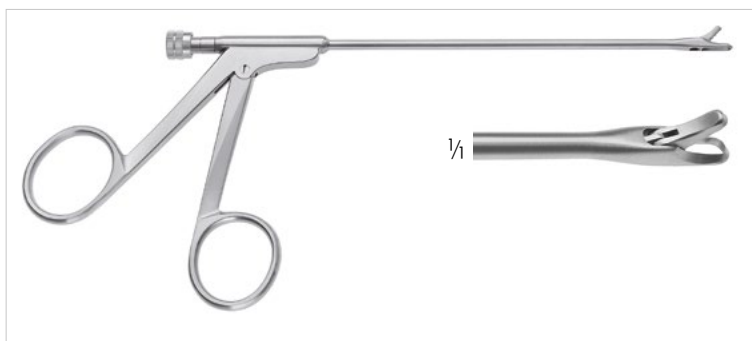
GRUENWALD-HENKE

Scharfe Nasenzange, durchschneidend, für glatten, gewebeschonenden Schnitt, extra zart, Arbeitslänge: 130 mm
Ethmoidal forceps, through cutting for clean soft tissue cut, straight, working length: 5 1/8 inch

252-013-145 Fig. 1 8 x 3 mm
252-014-145 Fig. 2 11,5 x 3,5 mm

GRUENWALD-HENKE

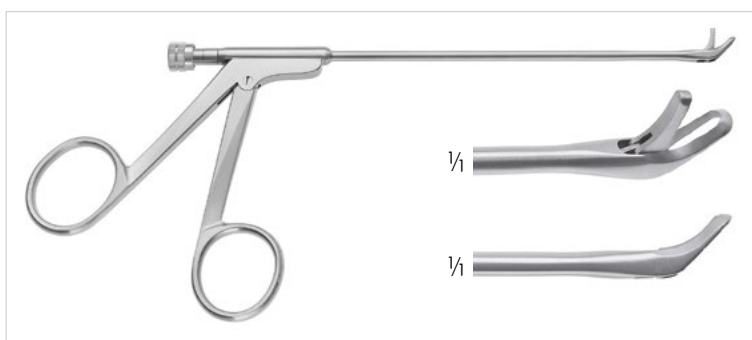
45° aufgebogen
45° upwards



252-206-000 Fig. 0 2 mm Schnitt/2 mm bite
252-206-001 Fig. 1 2,5 mm Schnitt/2.5 mm bite
252-206-002 Fig. 2 3 mm Schnitt/3 mm bite

DUCKBILL

Duckbill Punch, gerade, Arbeitslänge: 130 mm
Duckbill Punch, straight, working length: 5 1/8 inch



252-207-000 Fig. 0 2 mm Schnitt/2 mm bite
252-207-001 Fig. 1 2,5 mm Schnitt/2.5 mm bite
252-207-002 Fig. 2 3 mm Schnitt/3 mm bite

DUCKBILL

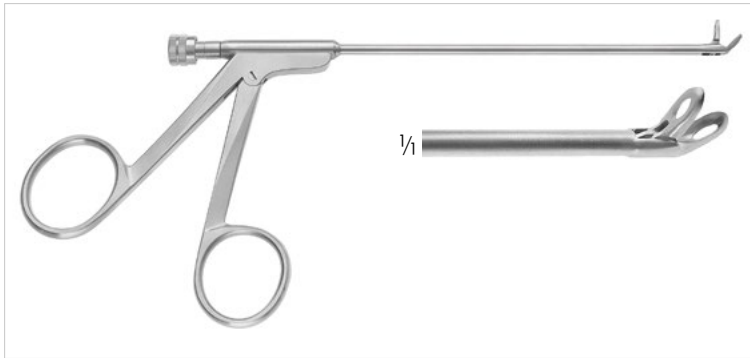
Duckbill Punch, aufwärts, Arbeitslänge: 130 mm
Duckbill Punch, upwards, working length: 5 1/8 inch



252-034-131 Größe 1/size 1 = 3 mm
252-034-132 Größe 2/size 2 = 3.5 mm
252-034-133 Größe 3/size 3 = 4 mm
252-034-134 Größe 4/size 4 = 5 mm
252-034-135 Größe 5/size 5 = 6 mm

BLAKESLEY

Nasenzange, gerade, 130 mm
Ethmoidal forceps, straight, 5 1/8 inch

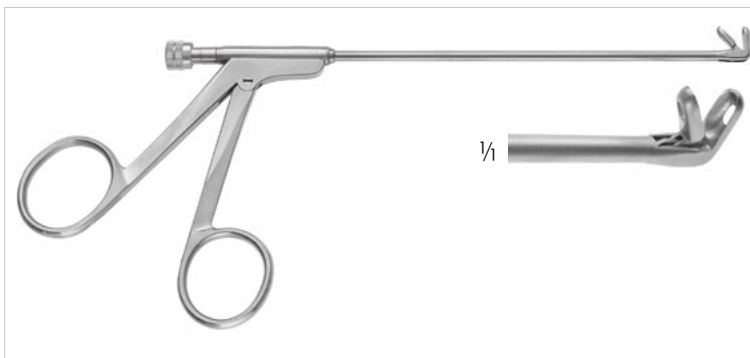


- 252-035-131 Größe 1/size 1 = 3 mm
 252-035-132 Größe 2/size 2 = 3.5 mm
 252-035-133 Größe 3/size 3 = 4 mm
 252-035-134 Größe 4/size 4 = 5 mm
 252-035-135 Größe 5/size 5 = 6 mm

BLAKESLEY-WILDE

Nasenzange, 45° aufgebogen, 130 mm

Ethmoidal forceps, 45° angled, 5 1/8 inch

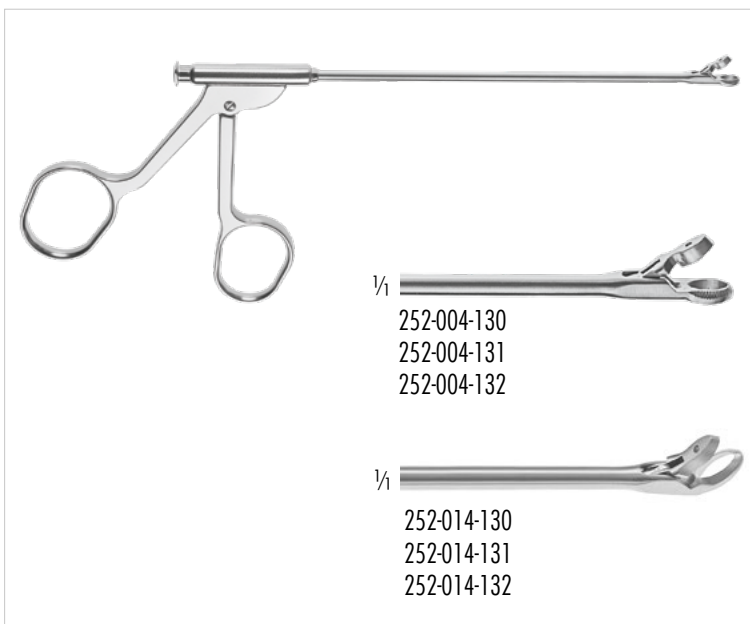


- 252-037-131 Größe 1/size 1 = 3 mm
 252-037-132 Größe 2/size 2 = 3.5 mm
 252-037-133 Größe 3/size 3 = 4 mm

BLAKESLEY-WILDE

Nasenzange, 90° aufgebogen, 130 mm

Ethmoidal forceps, 90° angled, 5 1/8 inch



- 252-004-130 Fig. 0 3 mm breit
 252-004-131 Fig. 1 3,5 mm breit
 252-004-132 Fig. 2 4,0 mm breit

BLAKESLEY

Scharfe Nasenzange, durchschneidend, für glatten, gewebeschonenden Schnitt, gerade, 130 mm

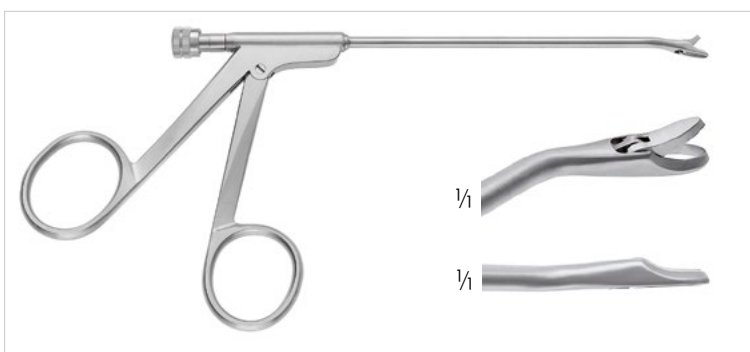
Ethmoidal forceps, through cutting for clean soft tissue cut, straight, 5 1/8 inch

- 252-014-130 Fig. 0 3 mm breit
 252-014-131 Fig. 1 3,5 mm breit
 252-014-132 Fig. 2 4,0 mm breit

BLAKESLEY

45° aufgebogen

45° upwards

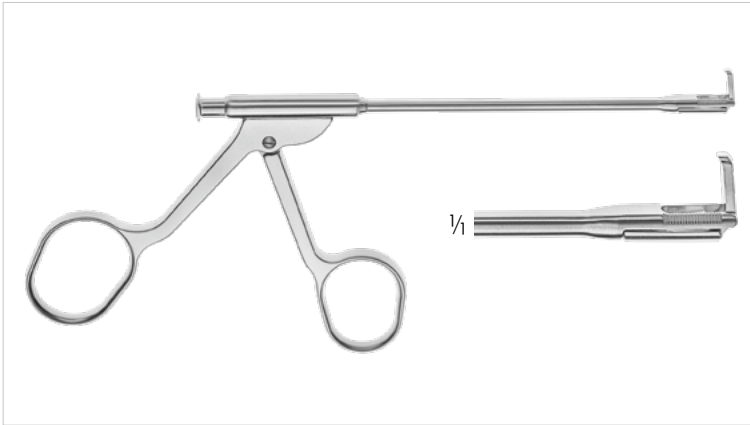


- 252-401-025 30° links gebogen/curved left
 252-403-025 30° rechts gebogen/curved right

BLAKESLEY

Nasenzange, durchschneidend, 2,5 mm Schnitt, Arbeitslänge: 115 mm

Nasal Forceps, through cutting, 2.5 mm bite, working length: 4 1/2 inch

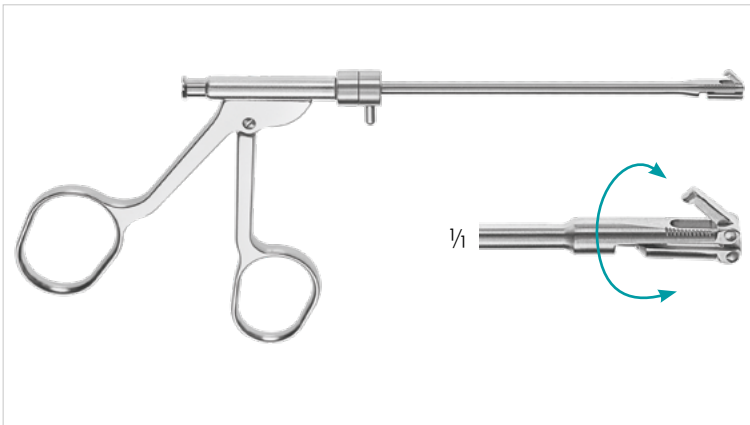


252-015-100 oben/upside
 252-115-100 rechts/right
 252-215-100 links/left

OSTROM

Kieferhöhlenstanze, 2,5 mm Schnitt, rückwärts schneidend,
 Arbeitslänge: 100 mm

Antrum punch, 2.5 mm cut, backward cutting,
 working length: 4 inch



252-315-100 drehbar, 360°/rotating, 360°

OSTROM

Kieferhöhlenstanze, rückwärts schneidend, 2,5 mm Schnitt,
 Arbeitslänge: 100 mm

Antrum punch, backward cutting, 2.5 mm cut,
 working length: 4 inch

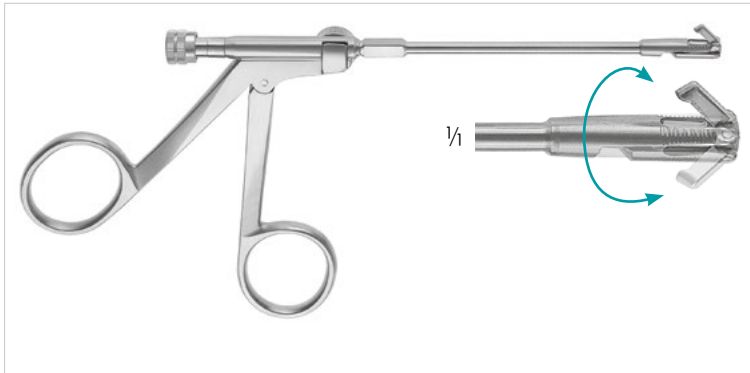


252-010-100 oben/upside
 252-110-100 rechts/right
 252-210-100 links/left

OSTROM

Kieferhöhlenstanze, kleines schlankes Modell, 1,5 mm Schnitt,
 rückwärts schneidend, Arbeitslänge: 100 mm

Antrum punch, small delicate pattern, 1.5 mm bite, backward cutting,
 working length: 4 inch

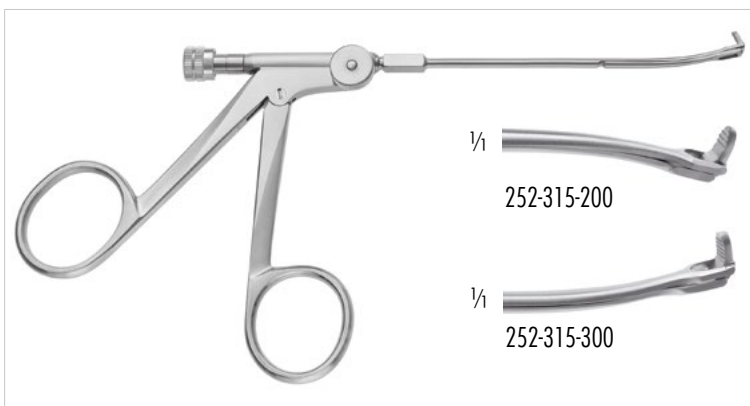


252-310-100 drehbar, 360°/rotating, 360°

OSTROM

Kieferhöhlenstanze, kleines schlankes Modell, 1,5 mm Schnitt
Arbeitslänge: 100 mm

Antrum punch, small delicate pattern, 1.5 mm bite,
working length: 4 inch



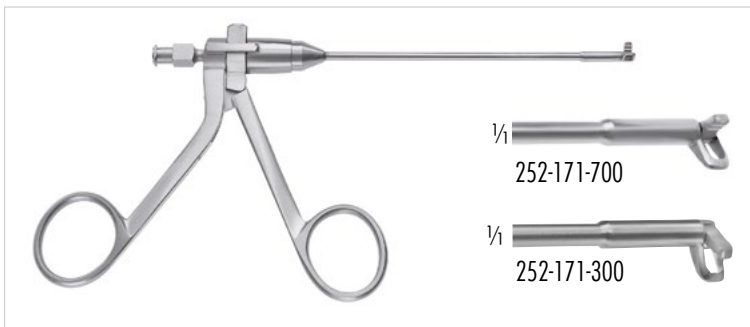
252-315-200 abgebogen/curved down

252-315-300 aufgebogen/curved up

OSTROM

Nasenzange, drehbar, kleiner Schnitt, Arbeitslänge: 100 mm

Ethmoidal forceps, rotating, micro bite, working length: 4 inch



252-173-700 links schneidend/left cutting

252-171-700 rechts schneidend/right cutting

252-171-300 nach rechts unten schneidend/
downward right cutting

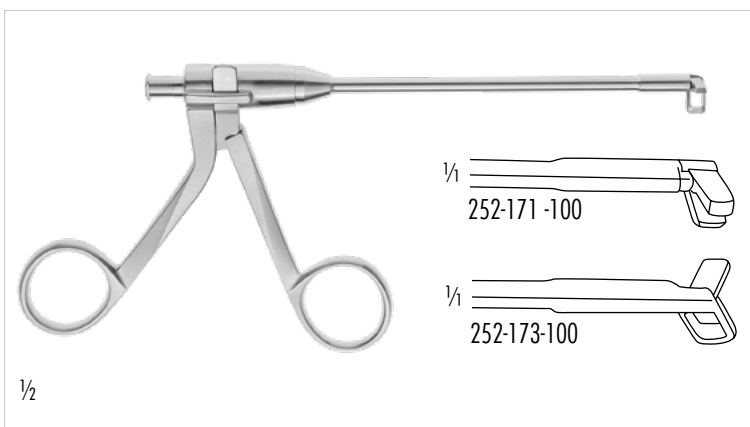
252-173-300 nach links unten schneidend/
downward left cutting

252-173-300

SIDECUTTER

Kieferhöhlenstanze, 2,5 mm Schnitt, Arbeitslänge: 100 mm

Antrum Punch, 2.5 mm bite, working length: 4 inch



252-171-100 nach rechts unten schneidend
downward right cutting

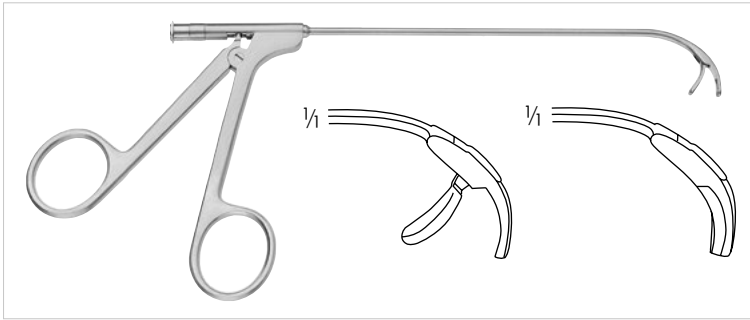
252-173-100 nach links unten schneidend
downward left cutting

252-173-100

SIDECUTTER

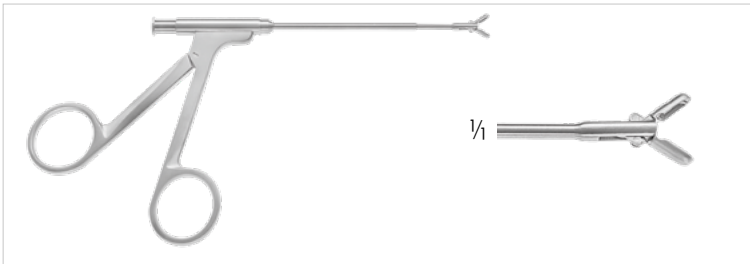
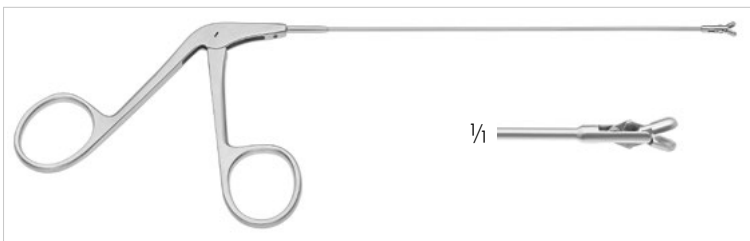
Kieferhöhlenstanze, 3,5mm Schnitt, Arbeitslänge: 100 mm

Antrum punch, 3.5mm cut, working length: 4 inch

**252-410-112****HEUWIESER**

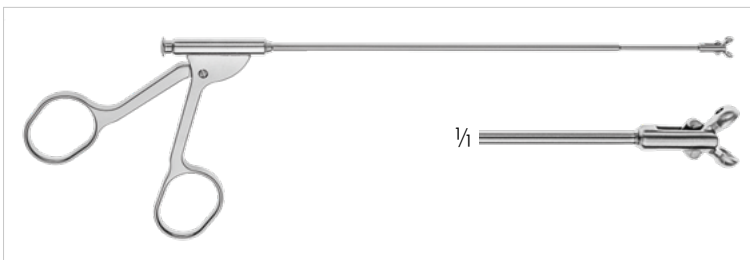
Kieferhöhlen-Faßzange, 90° gebogen, bis 120° rückwärts öffnend, Arbeitslänge: 130 mm

Antrum grasping forceps, 90° curved, 120° backward opening, working length: 5 inch

**252-503-090**Biopsie- und Fasszange, ovaler Löffel, 3x6mm, 89mm Arbeitslänge
Biopsy and Grasping forceps, 3x6mm oval cup, 89mm working length**252-503-140**

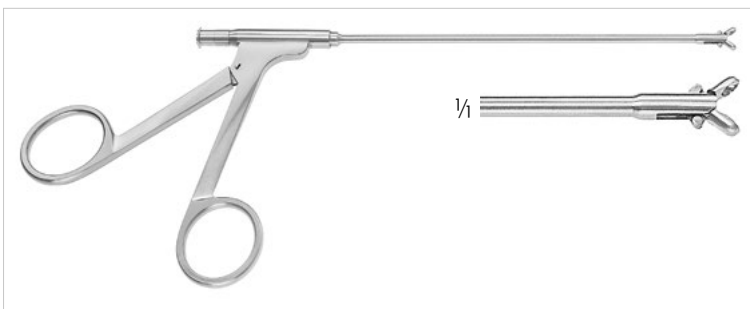
Probexcisions- und Faßzange, extra fein, mit ovalem Löffel 3 mm, 140 mm

Biopsy and Grasping forceps, delicate pattern, 3 mm oval cup, 5 1/2 inch

**252-174-180**

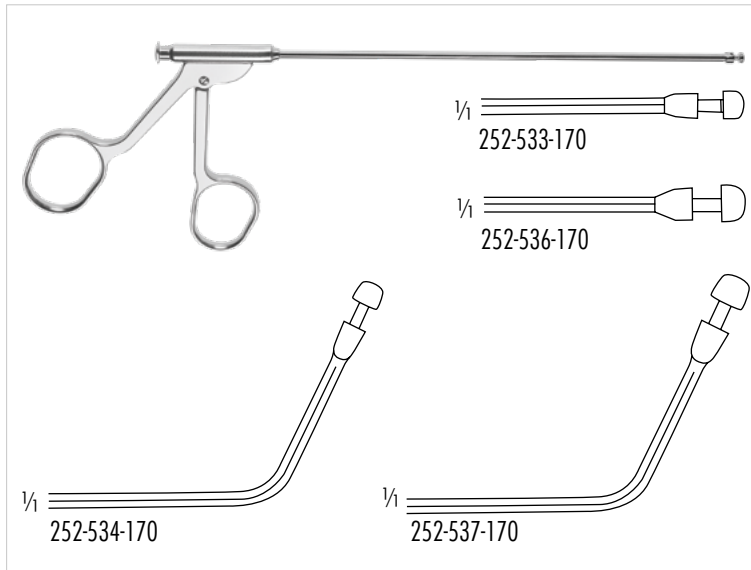
Probexcisions- und Fasszange, Schaftende biegsam, 4 mm Löffel, vertikal öffnend, 180 mm

Biopsy and Grasping forceps, malleable shaft, 4 mm biopsy cup, vertical opening, 7 inch

**252-503-150**

Biopsie- und Faßzange, 3mm Löffel rund, gerade, mit Luer-Lock, 150mm Arbeitslänge

Biopsy and Grasping Forceps, 3mm round cup, straight, with luer-lock, 150mm working length



252-533-170 Ø 3,5 mm

252-536-170 Ø 4,5 mm

STAMMBERGER

Zirkular Stanze, gerade, 160 mm

Circular punch, straight, 6 1/4 inch

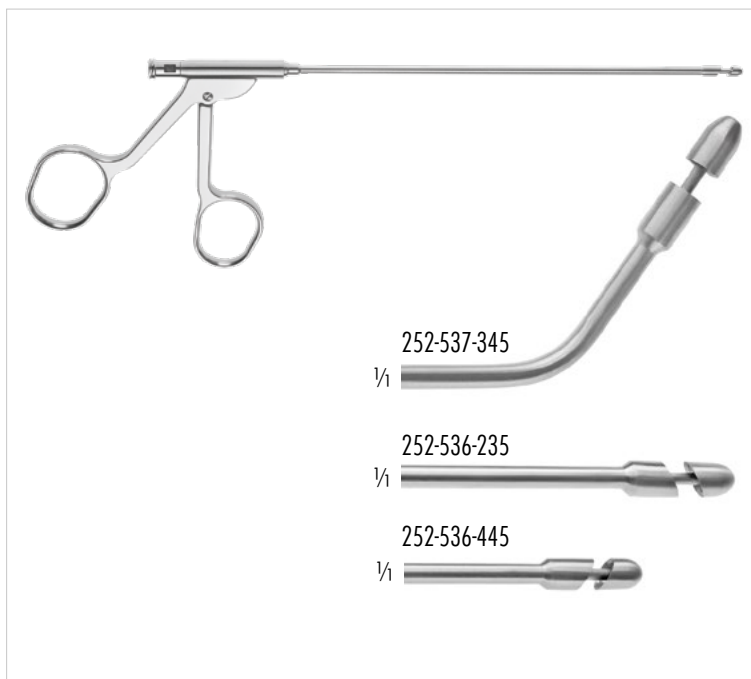
252-534-170 Ø 3,5 mm

252-537-170 Ø 4,5 mm

STAMMBERGER

Zirkular Stanze, 65° aufgebogen, 160 mm

Circular punch, 65° curved up, 6 1/4 inch



252-537-335 3.5mm Ø

252-537-345 4.5mm Ø

RZ

Circular Stanze, 60° aufgebogener Schaft, eiförmiger Schnitt, Arbeitslänge: 160 mm

Circular Punch, 60° upturned shaft, egg-shaped bite, working length: 6 1/4 inch

252-536-235 3.5mm Ø

252-536-245 4.5mm Ø

RZ

Circular Stanze, 120° schräger Schnitt, Arbeitslänge: 160 mm

Circular Punch, 120° oblique bite, working length: 6 1/4 inch

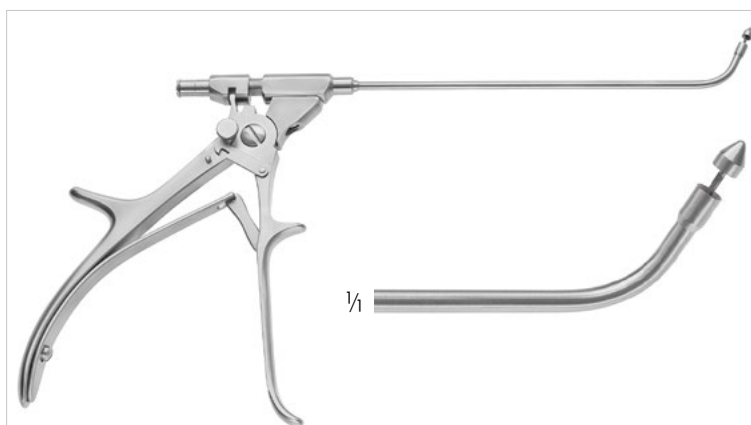
252-536-435 3.5mm Ø

252-536-445 4.5mm Ø

RZ

Circular Stanze, eiförmige Maulspitze, 60° schräger Schnitt, Arbeitslänge: 160 mm

Circular Punch, egg-shaped tip, 60° oblique bite, working length: 6 1/4 inch



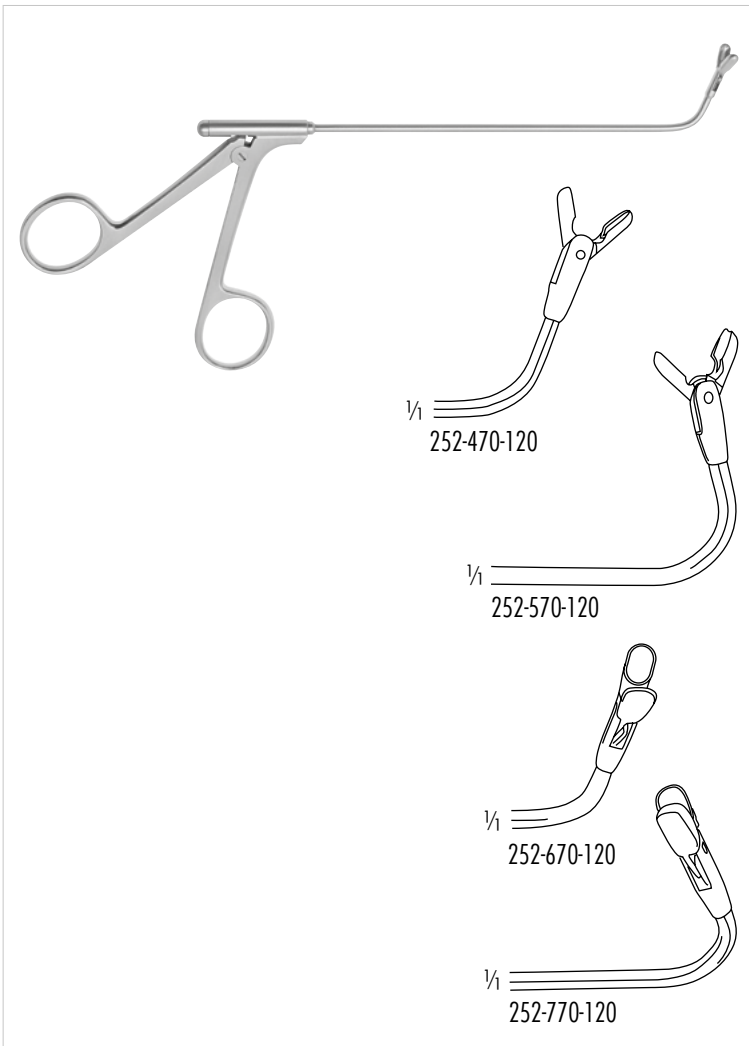
252-534-270 3.5mm Ø

252-537-270 4.5mm Ø

RZ

RZ-Circular Stanze, 70° aufwärts gebogen, mit Luer-Lock, Arbeitslänge: 130 mm

Circular Punch, 70° upturned shaft, with Luer-Lock, working length: 5 inch



252-470-120 70° aufgebogen

252-570-120 110° rückwärts gebogen

RZ-GIRAFFE

Doppellöffelzange, vertikal öffnend, Löffel Ø 4x8 mm, 130 mm

Biopsy forceps, vertical action, Ø 4x8 mm, 5 1/8 inch

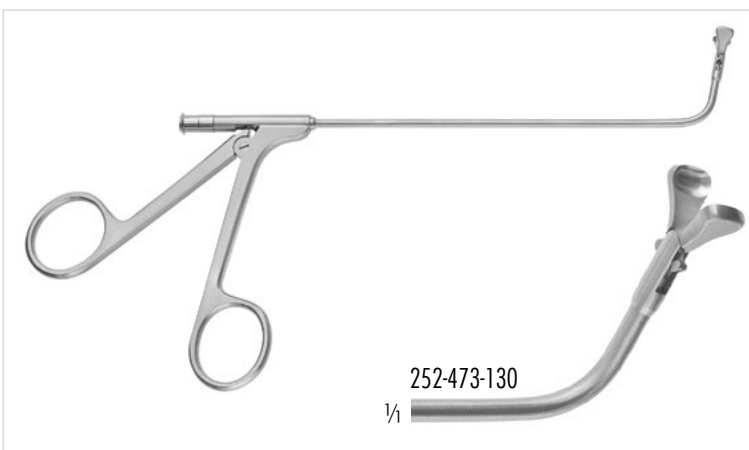
252-670-120 70° aufgebogen

252-770-120 110° rückwärts gebogen

RZ-GIRAFFE

Doppellöffelzange, horizontal öffnend, Löffel Ø 4x8 mm, 130 mm

Biopsy forceps, horizontal action, Ø 4x8 mm, 5 1/8 inch



252-473-130 horizontal öffnend/horizontal opening

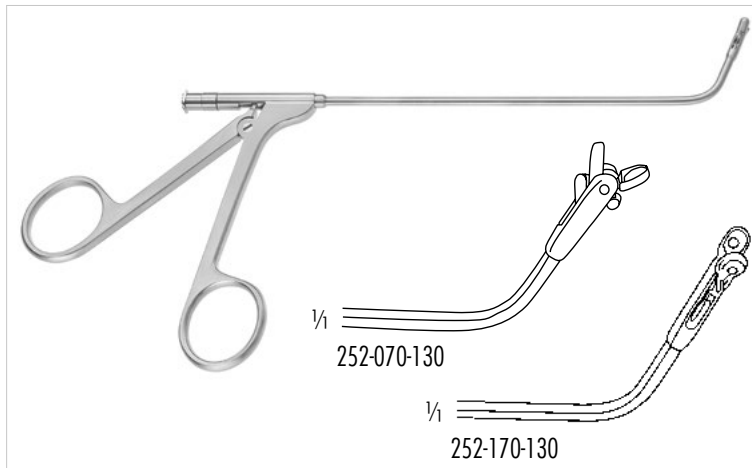
252-472-130 vertikal öffnend/vertical opening

Doppellöffelzange mit birnenförmigem Maulteil,

80° aufgebogen, Arbeitslänge: 130 mm

Double action Biopsy Forceps, pear shaped jaws,

80° angled up, working length: 5 1/8 inch

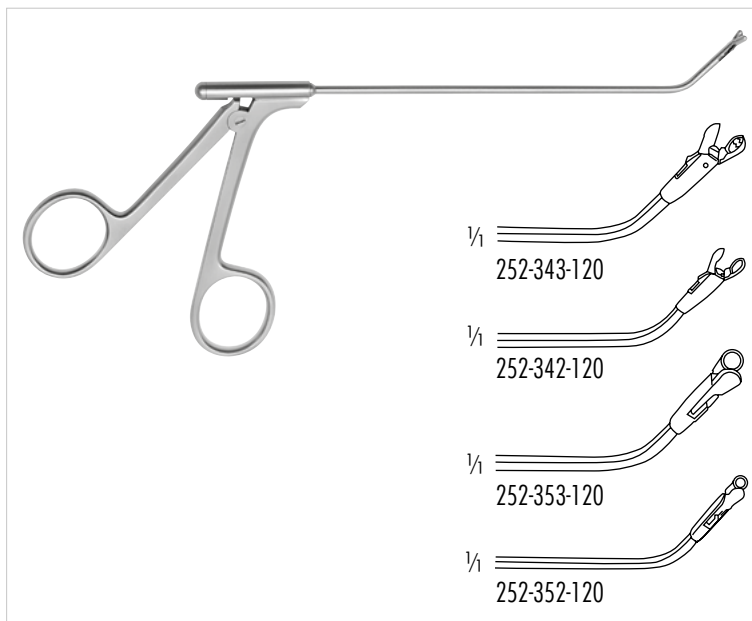


- 252-070-130 vertikal öffnend/vertical action
252-170-130 horizontal öffnend/horizontal action

RZ-GIRAFFE

Doppellöffelzange, 70° aufgebogen, Löffel Ø 3 mm,
Arbeitslänge: 130 mm

Biopsy forceps, 70° angled, cup Ø 3 mm,
working length 5 1/8 inch

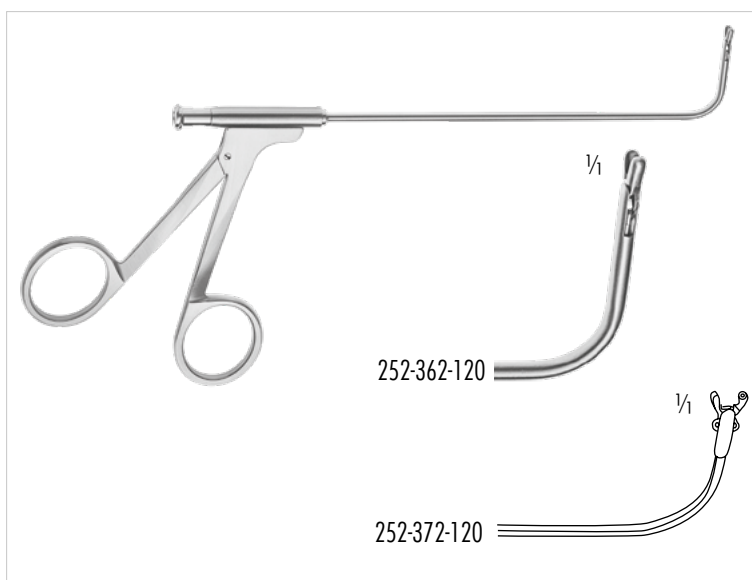


- 252-343-120 vertikal öffnend, 3x6 mm, 70° aufgebogen
vertical action, 3x6 mm, 70° angled up
252-342-120 vertikal öffnend, 2x4 mm, 55° aufgebogen
vertical action, 2x4 mm, 55° angled up
252-353-120 horizontal öffnend, 3x6 mm, 70° aufgebogen
horizontal action, 3x6 mm, 70° angled up
252-352-120 horizontal öffnend, 2x4 mm, 55° aufgebogen
horizontal action, 2x4 mm, 55° angled up

KUHN-BOLGER

Doppellöffelzange, 130 mm

Giraffe forceps, 5 1/8 inch

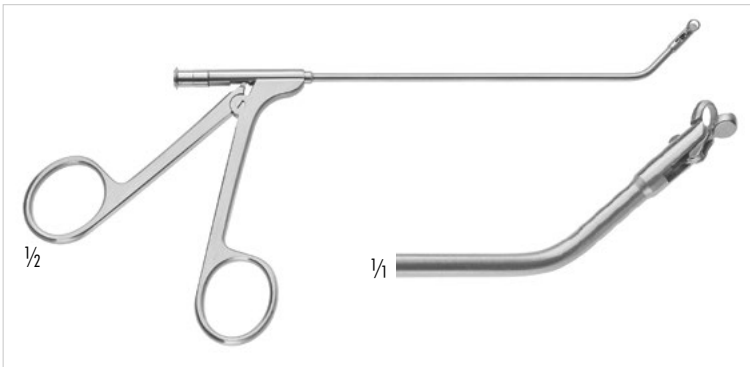


- 252-362-120 horizontal öffnend, 2x4 mm
horizontal action, 2x4 mm
252-372-120 vertikal öffnend, 2x4 mm
vertical action, 2x4 mm

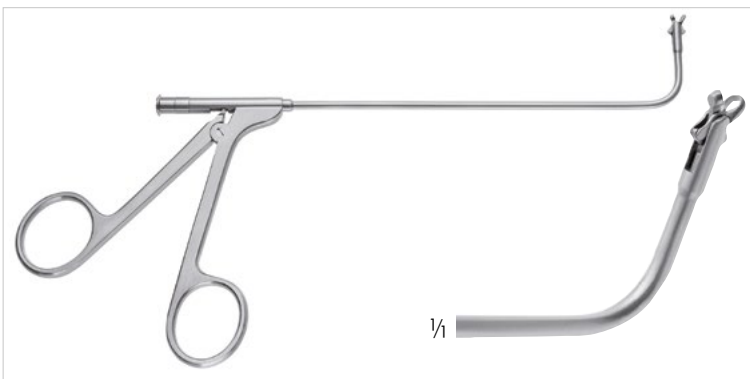
KUHN-BOLGER

Doppellöffelzange, 90° aufgebogen, 130 mm

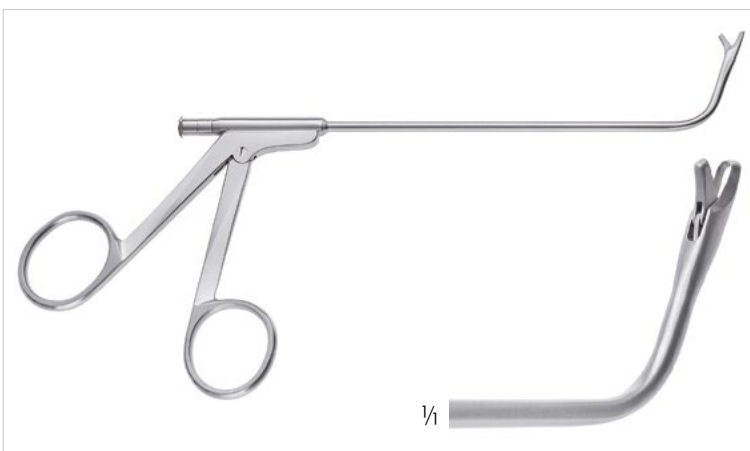
Giraffe forceps, 90° angled up, 5 1/8 inch



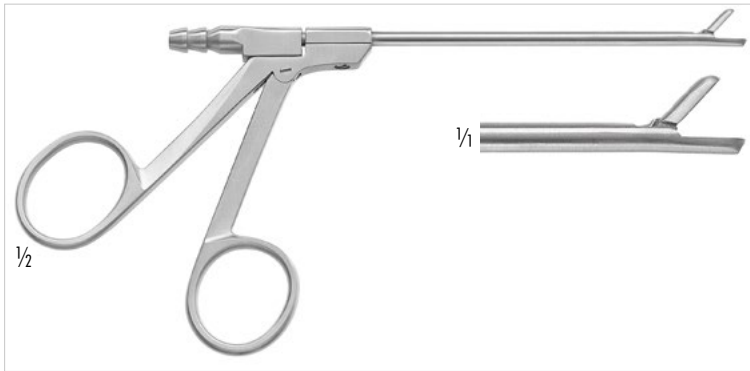
252-606-345 45° aufgebogen/45° upwards curved
 252-606-390 90° aufgebogen/90° upwards curved
 Sinuskopie Stanze, durchschneidend, 3mm runder Schnitt,
 horizontal öffnend, Arbeitslänge: 130 mm
 Sinuscopy Punch, through cutting, 3 mm round bite,
 horizontal opening, working length: 5 1/8 inch



252-605-090 Vertikal öffnend/vertical opening
 252-606-090 Horizontal öffnend/horizontal opening
 Sinuskopie Stanze, durchschneidend, 2 mm runder Schnitt,
 90° aufgebogen, Arbeitslänge: 130 mm
 Sinuscopy Punch, through cutting, 2 mm round bite,
 90° upwards curved, working length: 5 1/8 inch



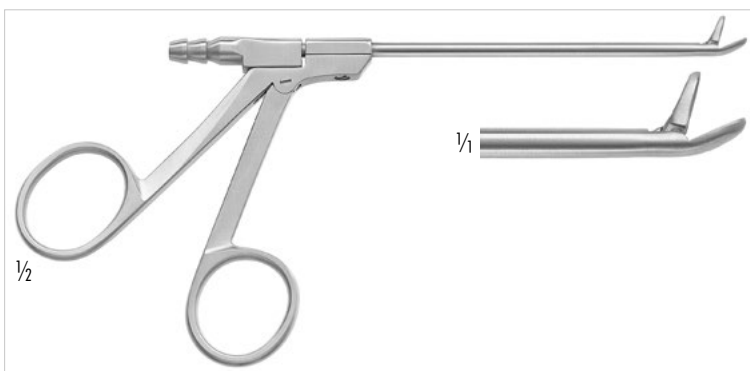
252-600-070 nach oben öffnend/backward opening
 252-601-070 nach rechts öffnend/right side opening
 252-602-070 nach links öffnend/left side opening
GRUENWALD
 Sinuskopie Zange, durchschneidend, 2 mm Schnitt, 70° aufgebogen,
 Arbeitslänge: 130 mm
 Sinuscopy Forceps, through cutting, 2 mm bite, 70° upwards curved,
 working length: 5 1/8 inch



252-021-100 Größe 1/Size 1, 2.5mm
 252-022-100 Größe 2/Size 2, 3.5mm
 252-023-100 Größe 3/Size 3, 4.0mm

BLAKESLEY

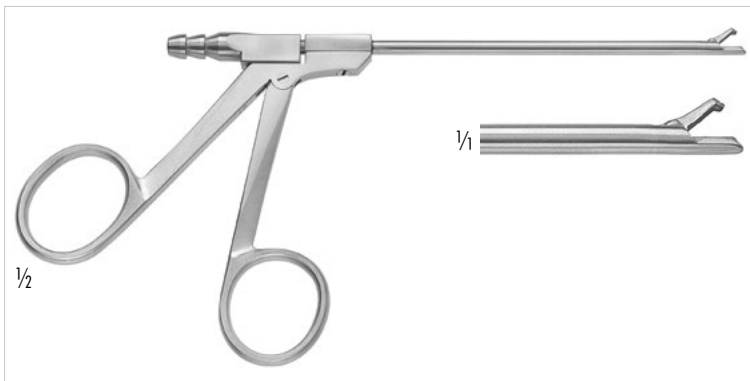
Saugstanze, gerade, 100 mm Arbeitslänge, Ø 4mm
 Suction Punch, straight, 4 inch working length, Ø 4mm



252-121-100 Größe 1/Size 1, 2.5mm
 252-122-100 Größe 2/Size 2, 3.5mm
 252-123-100 Größe 3/Size 3, 4.0mm

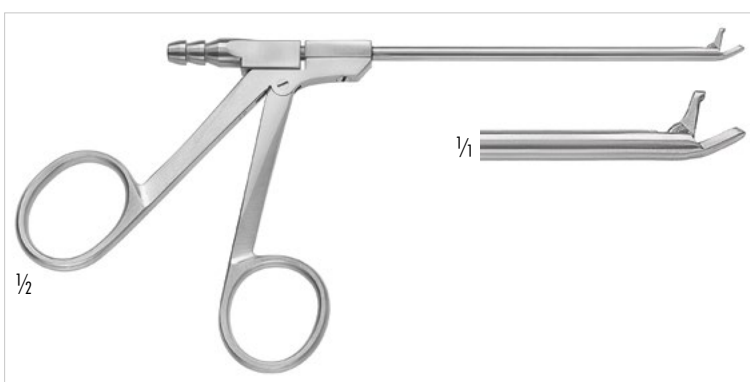
BLAKESLEY

Saugstanze, 45° aufgebogen, 100 mm Arbeitslänge, Ø 4mm
 Suction Punch, 45° upcurved, 4 inch working length, Ø 4mm

**252-502-100**

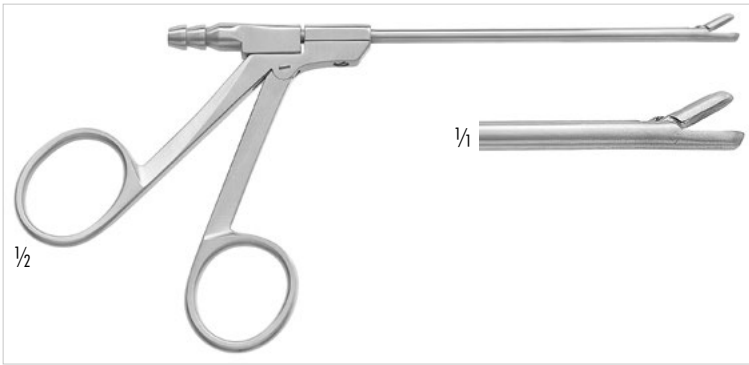
Biopsie Zange mit Absaugung, 2mm breit, durchschneidend,
 Arbeitslänge: 100mm

Biopsy Forceps with suction, 2mm wide, thru-cutting,
 working length: 4 mm

**252-502-145**

Biopsie Zange mit Absaugung, 2mm breit, durchschneidend,
 45° aufwärts gebogen, Arbeitslänge: 100mm

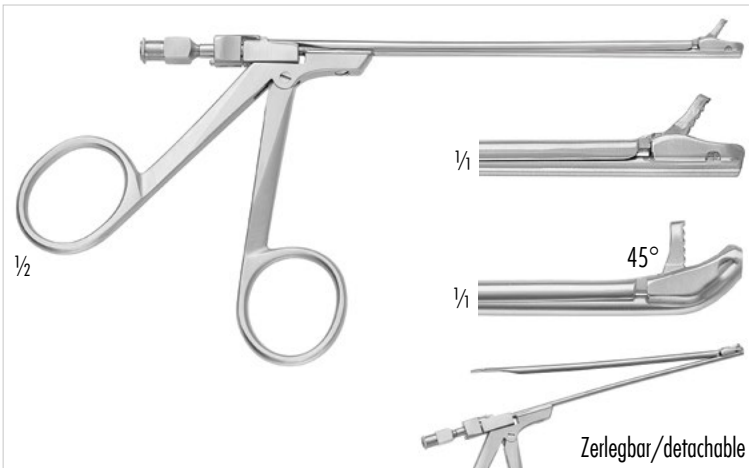
Biopsy Forceps with suction, 2mm wide, through-cutting,
 45° upcurved, working length: 4 inch



- 252-010-025 2.5mm, gerade/straight
- 252-010-035 3.5mm, gerade/straight
- 252-011-025 2.5mm, 30° aufgebogen/30° upcurved
- 252-011-035 3.5mm, 30° aufgebogen/30° upcurved

TAKAHASHI

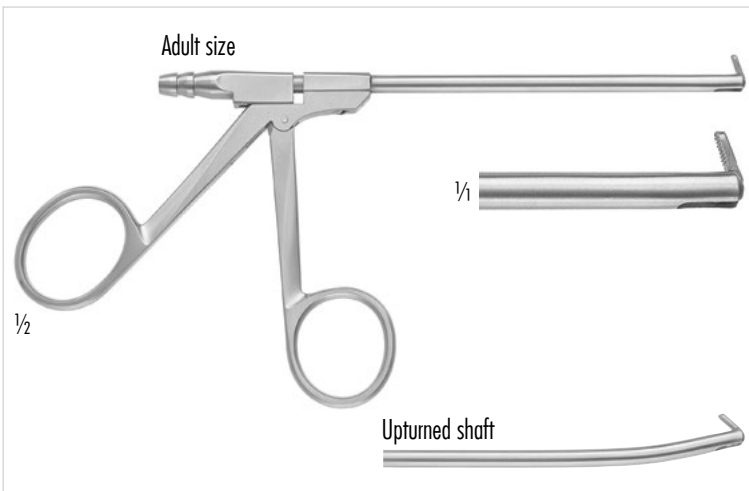
Saugstanze für Biopsie und Greifen, Ø 4mm,
Arbeitslänge: 100 mm
Suction Punch for biopsy and grasping, Ø 4mm,
working length: 4 inch



- 252-504-100 gerade/straight
- 252-505-100 45° aufgebogen/45° upcurved

BLAKESLEY

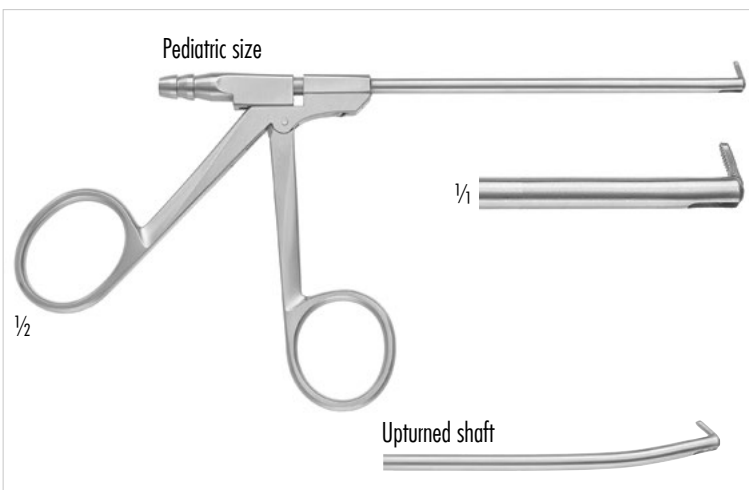
Biopsie Zange mit frontaler Absaugung, 2,5mm breit,
durchschneidend, zerlegbar, Arbeitslänge: 100 mm
Biopsy Forceps with frontal suction channel, 2.5mm wide,
through-cutting, detachable, working length: 4 inch



- 252-015-500 Aufwärts/upside
- 252-015-510 Links/left
- 252-015-520 Rechts/right

OSTROM

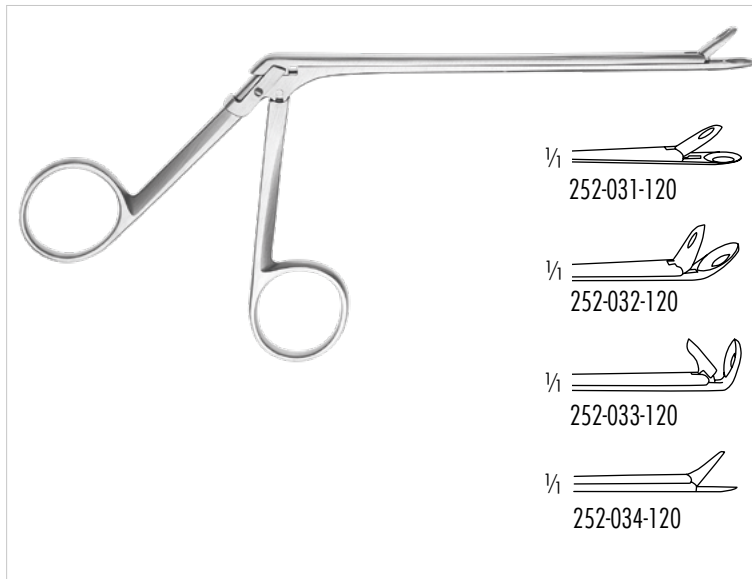
Saugstanze, gerade, Ø 4mm, rückwärts schneidend, 2,5mm Schnitt,
Arbeitslänge: 100 mm
Suction Punch, straight, backward cutting, Ø 4mm, 2.5mm bite,
working length: 4 inch



- 252-015-300 Aufwärts/upside
- 252-015-310 Links/left
- 252-015-320 Rechts/right
- 252-015-400 Aufgewinkelter Schaft, aufwärts
Upturned shaft, upside

OSTROM

Saugstanze, Ø 4mm, rückwärts schneidend, 2,0mm Schnitt,
Arbeitslänge: 100 mm
Suction Punch, Ø 4mm, backward cutting, 2.0mm bite,
working length: 4 inch



- 252-031-120 gerade/straight
 252-032-120 45° aufgebogen/45° angled up
 252-033-120 90° aufgebogen/90° angled up

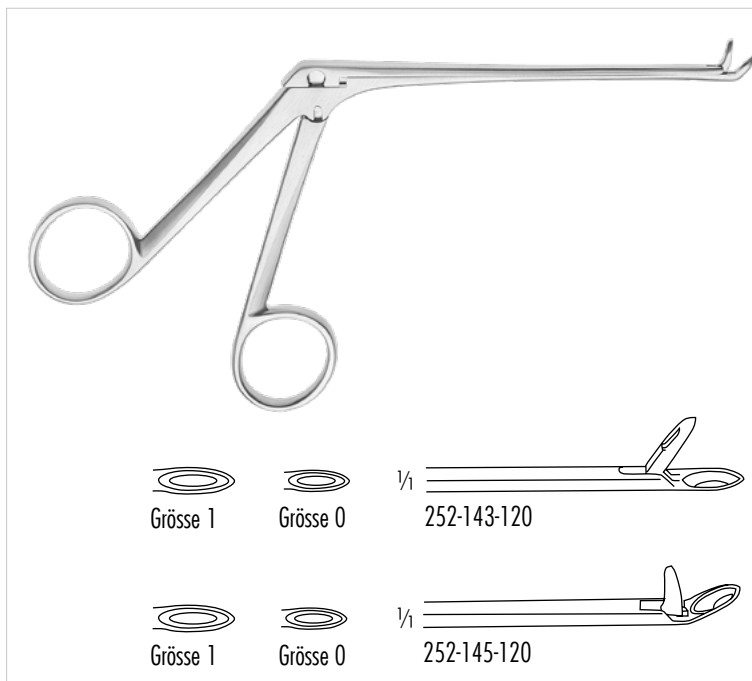
STRUEMPEL

Nasenzängchen, mit ovalem, gefensterterem Löffelmaul, 120 mm
 Nasal forceps with oval fenestrated cupped jaws, 4 ¾ inch

252-034-120

BELLUCCI

Scherchen, gerade, 100 mm
 Scissors, straight, 4 inch



- 252-143-120 Größe/size 0, 2 mm
 252-144-121 Größe/size 1, 2.5 mm

STRUEMPEL-VOSS

Blakesley Zange, gerade, 120 mm
 Blakesley forceps, straight, 4 ¾ inch

- 252-145-120 Größe/size 0
 252-146-121 Größe/size 1

STRUEMPEL-VOSS

Nasenzange, fein, 45° aufgebogen, 120 mm
 Nasal forceps, delicate, 45° angled up, 4 ¾ inch

FULL HD CAMERA SYSTEM



- 300-001-800 3 Chip HD-Camera F3
300-001-804 3 Chip HD-Camera F4 (with recording function)

Full HD

Technical data

Line voltage	100-240 VAC
Power input	20W
Image sensor	3 MOS
Resolution	1920 x 1080 pixels (FullHD)
Image resolution	>1000 TV lines, horizontal
Index ratio	16:9
Min. sensitivity	< 3lx (1/1.4)
Shutter speed	1/50 (1/60) to 1/100.000sec

Accessories



300-001-802
High-End 3-MOS Camera Head
FullHD (included in the set)



300-001-615
Title generator keyboard, waterproof IP68
US-Layout, cable 1.8m, color: grey,
305x140x15mm, 600gr.

Features:

- Full HD camera with 3-chip MOS technology
- Pure Natural Colors technology
- Full HD video recording (F4 only)
- Full HD image saving (F4 only)
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- Different digital video outputs
- Text generator (optional with keyboard)

DELIVERY CONTAINS:

- Main Unit
- Camera head
- 2x BNC cable
- HDMI - DVI cable
- HDMI cable
- S-Video cable (F3 only)
- USB Pen Drive (F4 only)
- Mains cable
- Operating manual

Video outputs (F4)	2 x HD SDI 1x HDMI / DVI 2x CVBS 1 x YPbPr / RGB 1 x Y/C (Pal/NTSC) 1x CVBS (Pal/NTSC)
Video outputs (F3)	1 x HDMI / DVI 1 x YPbPr (Component) 1 x Y/C (Pal/NTSC) 1x CVBS (Pal/NTSC)
Dimensions	Control unit: 380 x 120 x 360mm (WxHxD) Weight control unit: 11kg Weight camera head: 145g



300-001-610
Footswitch for HD Cameras
cable length: 2m

FULL HD CAMERA SYSTEM



Features:

- Full HD camera with 1-chip MOS technology
- Natural color technology
- Full HD video recording (F2 Pro only)
- Full HD image saving (F2 Pro only)
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- HDMI video outputs
- Text generator (optional with keyboard)

300-001-600 HD-Camera F1
300-001-601 HD-Camera F2 Pro (with recording function)

FULL HD

Technical data

Line voltage	100-240 VAC
Power input	F2 Pro: 30W / F1: 20W
Image sensor	1/3" MOS
Resolution	1920 x 1080 pixels (FullHD)
Image resolution	>1000 TV lines, horizontal
Index ratio	16:9
Min. sensitivity	< 3lx (1/1.4)

DELIVERY CONTAINS:

- Main Unit
- Camera head
- 2x BNC cable
- HDMI - DVI cable
- HDMI cable
- S-Video cable
- USB Pen Drive (F2 Pro only)
- Operating manual
- Mains cable

Video outputs (F2 Pro)	2 x HD SDI (optional) 1 x HDMI / DVI 1 x Y-Pb-Pr (Component) 1 x Video (PAL/NTSC) 1x S-Video (PAL/NTSC)
Video outputs (F1)	1 x HDMI 1 x YPbPr / RGB 1 x S-Video (Y/C; Pal / NTSC) 1 x Video (CVBS; Pal / NTSC)
Dimensions	Control unit: 380 x 120 x 360mm (WxHxD) Weight control unit: 11kg Weight camera head: 105g

Accessories



300-001-602
High-End 1/3" MOS Camera Head
Full HD (included in the set)



300-001-615
Title generator keyboard, waterproof IP68
US-Layout, cable 1.8m, color: grey,
305x140x15mm, 600gr.



300-001-610
Footswitch for HD Cameras
cable length: 2m



Features:

- Full HD camera with 1-chip technology
- Bright color technology
- Video and Picture recording (Z2 only)
- Camera head with 3 programmable buttons
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu

300-001-400 Camera Z1
300-001-410 Camera Z2 (with recording function)

DELIVERY CONTAINS:

- Main Unit (300-001-410)
- Camera head (300-001-410.1)
- HDMI/DVI Cable ■ HDMI cable
- 4GB USB Pen Drive (Z2 only)
- Mains cable ■ Operating manual

Technical data

Line voltage	100-240 VAC
Image sensor	1/3" MOS
Resolution	1920 x 1080 pixels (FullHD)
Index ratio	16:9
Outputs	1x HDMI
Connections	1x USB, 1x Remote IN 2 x Remote OUT, 2x RJ45

Safety class (EN 60601-1)	I
Classification (EU 2017/745)	I
Application part	BF
Dimensions	Control Unit: 380 x 132 x 378 mm (WxHxD) Camera Head: Ø 38 x 79mm
Weight	Control Unit: approx. 9kg Camera Head: 180g

Accessories



300-001-410.1
1/3" MOS Camera Head
(included in the set)



300-001-615
Title generator keyboard, waterproof IP68
US-Layout, cable 1.8m, color: grey,
305x140x15mm, 600gr.



300-001-610
Footswitch for HD Cameras
cable length: 2m

TV COUPLER



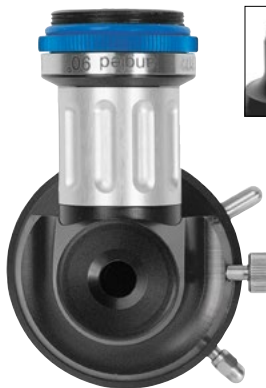
4K
FULL HD

300-001-823 f=14mm
300-001-824 f=25mm
300-001-825 f=28mm
c-mount, soakable



4K
FULL HD

250-015-030
Zoom-TV-Adapter
f=15 - 30mm
c-mount, soakable



FULL HD

250-020-025 F=25mm (splitting 90/10)
250-020-030 F=30mm (splitting 90/10)
Beamsplitter, allows simultaneous video
and direct views, c-mount, soakable



FULL HD

300-001-813 f=14mm
300-001-814 f=25mm
300-001-815 f=28mm
c-mount, soakable



300-001-168
Endovue 32" HD Monitor

300-001-158
Endovue 24" HD Monitor

Technical data

Screen size	31.5" / 24" diagonal
Resolution	1920 x 1080
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	16.7 Million (8-bit)
Video Inputs	DVI-D, RGBS/VGA/YPbPr (HD-15 or DVI-I via adapter), S-Video, Composite
Video Outputs	DVI-D
Weight	8.8kg (300-001-168) 6.7kg (300-001-158)



300-001-232
Radiance 32" HD Monitor

300-010-226
Radiance 27" HD Monitor

Technical data

Screen size	32" / 27" diagonal
Resolution	1920 x 1080
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	1.07 Billion (10-bit)
Video Inputs	DVI-I and 3G-SDI Input/Output
Video Outputs	DVI-D
Weight	11.0kg (300-001-232) 8.9kg (300-010-226)



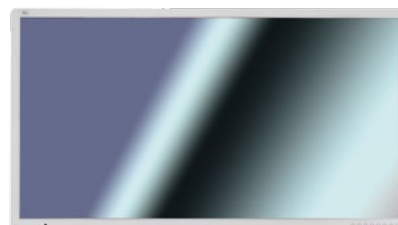
300-001-028
Monitor Table Stand



300-001-031
UHD 4K Monitor, 31"

Technical data

Screen size	31" diagonal
Resolution	4096 x 2160
Aspect ratio	17:9
Viewing angle	178°
Number of colors	1.08 Billion (10-bit)
Video Inputs	1 x HDMI 2.0 1 x DP 1.2 (SST) & 1 x DP 1.2 (MST) 1 x DVI (single link), 4 x SDI (3G)
Video Outputs	1 x DP 1.2 (SST) 1 x DVI (single link), 4 x SDI (3G)
Weight	10.5kg



300-001-055
UHD 4K Monitor, 55"

Technical data

Screen size	55" diagonal
Resolution	3840 x 2160
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	1.08 Billion (10-bit)
Video Inputs	1 x HDMI 2.0, 2 x DP 1.2 (55T) 1 x DVI (single link), 2 x DVI (dual link) 4 x SDI (3G), 2 x SDI (12G)
Video Outputs	1 x DVI (single link), 1 x DP 1.2 (SST) 4 x SDI (3G), 2x SDI (12G)
Weight	37.35kg

LED LIGHT SOURCE



Features:

- 6500K daylight color temperature
- 375 Watt equivalent output power
- > 20.000 hours lifetime
- Turret connector for the most common light cables (Olympus, Wolf, Gyrus ACMI, Storz)
- Manual or automatic light control
- Waterproof touch control panel
- Low heat conduction by improved LED technology
- Boost function: light increase of 20%

300-900-300 LUMEN LED 3 PRO Light Source, 110 - 230V



Technical data

Line voltage	100-240 VAC
Video input	1x Video, BNC
Protection class	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
Safety class	BF
Standard	IEC 60601-1-2
Dimensions	380 x 120 x 360mm (WxHxD)
Weight	approx. 11kg

DELIVERY CONTAINS:

- Main Unit (300-900-300)
- BNC cable (optional)
- Mains cable
- Operating manual



A OLYMPUS

B WOLF

C GYRUS ACMI

D STORZ
KARL STORZ ENDOSKOP

Turret, multi connector

LED LIGHT SOURCE



Features:

- More than 20.000h lamp lifetime
- 180 Watt equivalent power output
- Manual or automatic light control
- Waterproof touch control panel
- Low heat conduction by improved LED technology
- Daylight color temperature 6000 – 6500° K for accurate color representation
- Boost function: light increase of 20%

300-900-180 LUMEN LED 1 Light Source



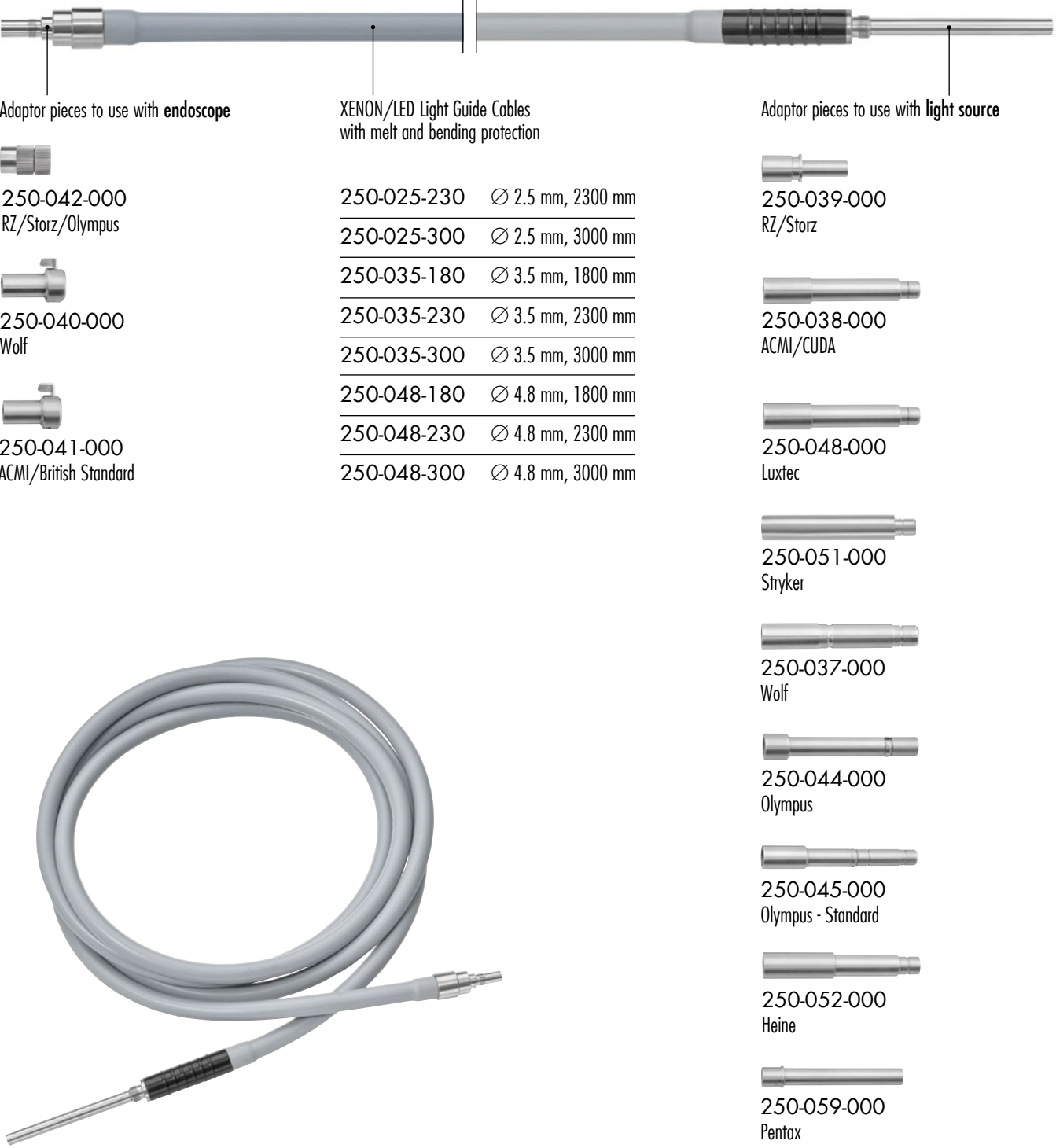
DELIVERY CONTAINS:

- Main Unit (300-900-180)
- BNC cable
- Mains cable
- Operating manual

Technical data

Line voltage	100-240 VAC
Power consumption	130VA
Video input	1x Video, 1x S-Video (Y/C) (automatic version only)
Protection class	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
Safety class	BF
Dimensions	380 x 120 x 360mm (WxHxD)
Weight	approx. 11kg

HIGH TEMPERATURE LED/XENON LIGHT CABLES



Adaptor pieces to use with **endoscope**



250-042-000
RZ/Storz/Olympus



250-040-000
Wolf



250-041-000
ACMI/British Standard

XENON/LED Light Guide Cables
with melt and bending protection

250-025-230	Ø 2.5 mm, 2300 mm
250-025-300	Ø 2.5 mm, 3000 mm
250-035-180	Ø 3.5 mm, 1800 mm
250-035-230	Ø 3.5 mm, 2300 mm
250-035-300	Ø 3.5 mm, 3000 mm
250-048-180	Ø 4.8 mm, 1800 mm
250-048-230	Ø 4.8 mm, 2300 mm
250-048-300	Ø 4.8 mm, 3000 mm

Adaptor pieces to use with **light source**



250-039-000
RZ/Storz



250-038-000
ACMI/CUDA



250-048-000
Luxtec



250-051-000
Stryker



250-037-000
Wolf



250-044-000
Olympus



250-045-000
Olympus - Standard



250-052-000
Heine



250-059-000
Pentax

COMPATIBILITY NOTE:
A fiber optic cable with a large diameter should not be connected to a smaller diameter scope.
For example: Ø 4.8mm fiber optic cables connected to a Ø 2.9mm may risk high temperature at the light entry of the endoscope and may risk patient safety.

ELECTROSURGICAL GENERATOR



700-350-400 230V
700-350-410 110V
G400 Electrosurgical Generator

Technical data

Line voltage	110-230 VAC
Power consumption	500W
Generator operation frequency	333kHz
Display	TFT 10"
Defibrillation impulse resistance	acc. to EN 60601-1
NEM system	neutral electrode control optical indication 7 levels required resistance < 240 Ω
Gas type	pure argon 4.8 (99,998%) or higher
Inlet gas pressure	0.25-0.4 [MPa]
Monopolar coagulation / cutting	200W / 400W
Bipolar coagulation / cutting	400W / 400W

Gas outflow	0.1-10 l/min, regulated 0.1 l/min in whole range
Pressure range	reducer (0.4 MPa) on argon cylinder
Vessel sealing system	9 effects/300W
AutoStop	automatic stop of sealing process after achieving the optimal effect
Dimensions	495 x 415 x 225mm (LxWxH)
Weight	12.2kg

Features:

- Monopolar/bipolar cutting and coagulation
- Automatic identification of connected instruments
- Powerstart System simplifies the beginning of cutting process
- Automatic power regulation
- 105 different memory locations in 7 groups
- Various output configuration of the sockets available
- 10" Touchscreen
- Tilttable display
- Footswitch (optional)
- Available with Argon and / or the RZeal
- Real-time output monitoring

DELIVERY CONTAINS:

- Main Unit
- Mains Cable
(Footswitch not included)

Accessories



700-350-405
2-Button-Footswitch, length: 5m
700-350-402
3-Button-Footswitch, length: 5m, quick access key



Disposable Neutral Electrode
hydrogel, split, for adults or children
10x5 pcs. per package
700-503-000 Adults
700-503-001 Children



Cable for Disposable Neutral Electrode
5m, RZ compatible only
700-503-003

ELECTROSURGICAL GENERATOR



700-340-400 230V
700-340-410 110V
G44 Electro-surgical Generator

Technical data

Line voltage	110-240 VAC
Power consumption	1100VA
Generator operation frequency	333kHz
Display	TFT 7" WVGA
Spectrum result system	automatic power regulation
Monopolar coagulation	max. 200W (200Ω)
Monopolar cutting	max. 400W (100Ω)
Bipolar coagulation	max. 400W (25Ω)
Bipolar cutting	max. 330W (150Ω)

Features:

- Monopolar/bipolar cutting and coagulation
- Automatic instrument detection system
- Intuitive Touchscreen
- Automatic power regulation
- Configurable working modes
- Real-time parameter control
- Special endoscopic modes
- Bipolar resection
- Easy software update

DELIVERY CONTAINS:

- Main Unit ■ Mains Cable
(Footswitch not included)

NEM system	neutral electrode control, optical indication, required resistance < 240 Ω
Dimensions	385 x 305 x 141mm (LxWxH)
Weight	7kg

Accessories



700-350-405
2-Button-Footswitch, length: 5m
700-350-402
3-Button-Footswitch, length: 5m, quick access key



Disposable Neutral Electrode
hydrogel, split, for adults or children
10x5 pcs. per package
700-503-000 Adults
700-503-001 Children



Cable for Disposable Neutral Electrode
5m, RZ compatible only
700-503-003



ORAL
Instruments and
Equipment for
Oral and Larynx