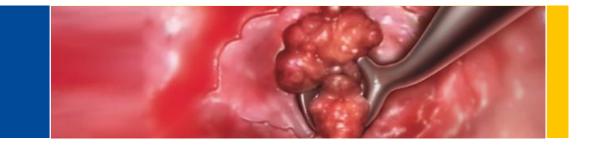
ENDOWORLD

Endoscopic Pituitary Surgery

according to CAPPABIANCA/CAVALLO/de DIVITIIS





Endoscopic Pituitary Surgery according to CAPPABIANCA/CAVALLO/de DIVITIIS

The endoscopic endonasal approach to the sellar region is a recent evolution of the conventional transsphenoidal technique performed with the operating microscope. This method can be designated as "pure" pituitary endoscopy and not only as a complement to the microscopic intervention – the term "pure" being applied to a surgical procedure in which the endoscope is the only optical device being used.

The endoscopic endonasal transsphenoidal approach to the sella is performed via an anterior sphenoidotomy, through the enlargement of the natural sphenoid ostium, with a rigid diagnostic endoscope as the sole visualizing tool, and without the use of a transsphenoidal retractor. Three main steps make up this surgical procedure: nasal, sphenoidal and sellar.

During the nasal step the rigid endoscope (18 cm in length, 4 mm in diameter) is inserted in the chosen nostril up to the middle turbinate, that is gently pushed laterally to enlarge the space between it and the nasal septum. The endoscope is then advanced inside the nasal cavity up to the choana and along its roof, in the sphenoethmoid recess, until to reach the natural sphenoid ostium.

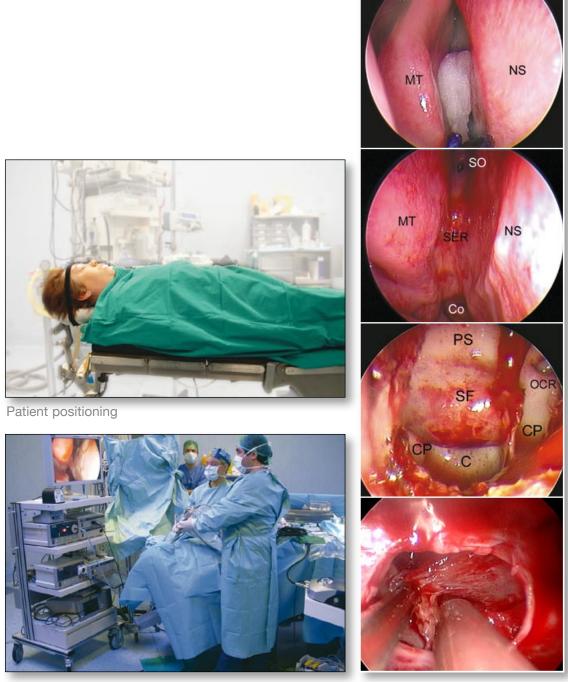
The sphenoid step starts with the coagulation of the spheno-ethmoid recess and the detachment of the nasal septum from the sphenoid prow using a microdrill. Once the anterior wall of the sphenoid sinus is exposed on both sides, it is removed all around with different bone punches. One or more septa inside the sphenoid sinus are removed with a nasal forceps.

During the sellar step, the endoscope can be held by a second surgeon in order to free both surgeon's hands. Alternatively a longer scope (30 cm in length, 4 mm in diameter) can be used and fixed to an autostatic holder. After the endoscopic identification of all the anatomic landmarks around the sella, its floor is opened and the dura incised with a telescopic blade. The sellar lesion is then removed with different curettes depending on the size and position of the pituitary tumor. After lesion removal the sellar floor is repaired, when necessary, with different autologous or heterologous or synthetic materials, according to the common guidelines.

In the settings of continuous research for new and better instruments, constant and on-going development of surgical tools is necessary.

The main advantages of the endoscopic procedure arise from the absence of the nasal speculum and from the use of the endoscope instead of the microscope. Without the transsphenoidal retractor, the endoscope discloses its better properties, permitting a wider vision of the surgical field, with a close-up "look" inside the anatomy. The whole procedure is less traumatic. No post-operative nasal packing is necessary thus improving significantly the patient's compliance. The percentage of complications is reduced, as compared to the traditional microsurgical approach. Treatment of recurrences is easier because the submucosal nasal phase is avoided and the anatomical orientation is much better.

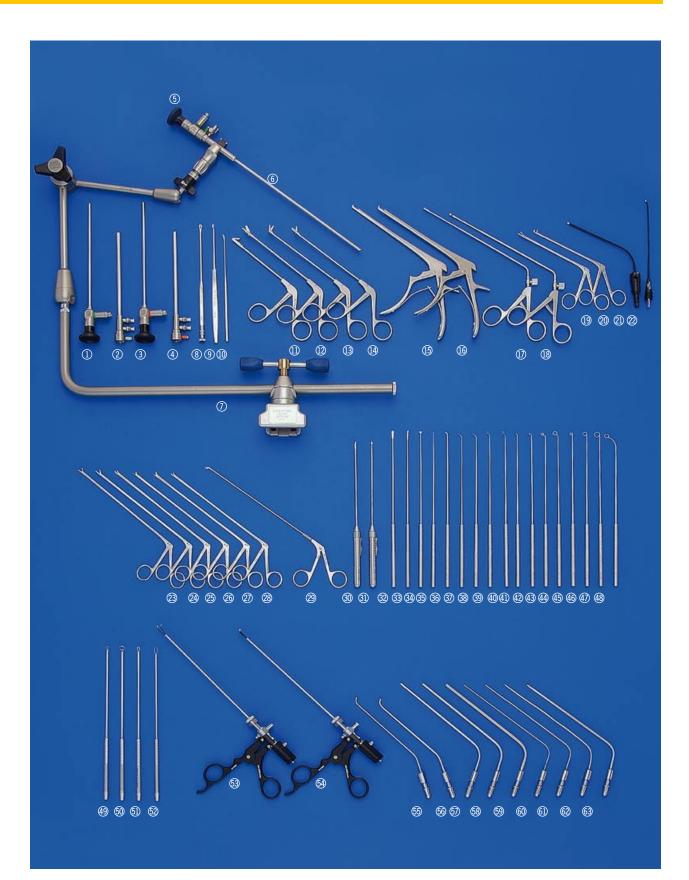
Endoscopic Pituitary Surgery according to CAPPABIANCA/CAVALLO/de DIVITIIS



Operating room setup

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Recommended Set acc. to CAPPABIANCA/DE DIVITIIS



Endoscopic Visualization

(1)	28132 AA	In the second second second of the second of the second of the second of the second se
2	7230 AS	Irrigation Sheath, O.D. 4.8 × 6.0 mm, working length 14 cm, for use with HOPKINSI Telescopes 28132 AA
3	28132 BA	H미마너N의® Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, autoclavable
4	7230 BS	Irrigation Sheath, O.D. 4.8 × 6.0 mm, working length 14 cm, for use with HOPKINSII® Telescopes 28132 BA
5	28164 AA	HDPKINSII® Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 30 cm, autoclavable
6	28164 ASA	Irrigation Sheath, O.D. 4.8 × 6.0 mm, working length 24 cm, for use with HOPKINSII® Telescopes 28164 AA
7	28272 RKB	Holding System, autoclavable
	optional	
	28132 FA	H미마너지의® Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, autoclavable (not illustrated)
	7230 FS	Irrigation Sheath, O.D. 4.8 × 6.0 mm, working length 14 cm, for use with HOPKINSII® Telescopes 28132 FA (not illustrated)
	7219 AA	HDPKINSII® Straight Forward Telescope 0°, enlarged view, diameter 2.7 mm, length 18 cm, autoclavable (not illustrated)
	28164 CAA	Irrigation Sheath, O.D. 3.8 mm, working length 15 cm, for use with HOPKINSI® Telescopes 7219 AA (not illustrated)

Nasal and Sphenoid Stage

8	474001	FREER Suction Elevator, with stylet, length 19 cm
9	628702	Antrum Curette, oblong small size, length 19 cm
10	660500	Sickle Knife, length 18 cm
1	459010	STAMMBERGER RHINOFORCE [®] II Antrum Punch, upside backward cutting, length 10 cm
(12)	449211	RHINOFORCE® II Nasal Scissors, working length 13 cm, straight
(13)	452501 B	MACKAY-GRÜNWALD RHINOFORCE [®] II Nasal Forceps , through-cutting, tissue sparing, delicate, upturned 45°, size 1.8 x 3 mm, working length 13 cm
14	452001 B	MACKAY-GRÜNWALD RHINOFORCE [®] II Nasal Forceps , through-cutting, tissue sparing, delicate, straight, size 1.8 x 3 mm, working length 13 cm
(15)	28164 MKB	KERRISON Punch , upbiting 40° forward, size 2 mm, working length 17 cm
(16)	28164 MKC	KERRISON Punch, upbiting 40° forward, size 3 mm, working length 17 cm
1)	651050	STAMMBERGER Punch , circular cutting for sphenoid, ethmoid and choanal atresia, working length 18 cm, diameter 4.5 mm
(18)	651055	STAMMBERGER Punch, circular cutting, for sphenoid, ethmoid and choanal atresia
(19	634824	STRÜMPEL Forceps, with oval, fenestrated cupped jaws, working length 12.5 cm
20	634825 A	STRÜMPEL Forceps, with oval, fenestrated, cupped jaws, 45° upturned, working length 12.5 cm
21	839310 N	Unipolar Suction-Coagulation Tube, insulated, with connector pin for unipolar coagulation, diameter 3 mm, working length 10 cm
	28164 ED	Coagulation Ball Electrode, diameter 2 mm, laterally curved, working length 13 cm (not illustrated)
22	28164 EF	Coagulation Ball Electrode, diameter 4 mm, laterally curved, working length 13 cm

Recommended Set acc. to CAPPABIANCA/DE DIVITIIS

Sellar Stage

23	663231	Forceps, with round spoon, diameter 2.5 mm, straight, working length 18 cm
24	663239	Forceps, with oval, fenestrated, cupped jaws, 2.5 mm wide, straight, working length 18 cm
25	663301	Scissors, straight, delicate, working length 18 cm
26	663304	Scissors, curved right, delicate, working length 18 cm
27	663305	Scissors, curved left, delicate, working length 18 cm
28	663307	Scissors, 45° upturned, delicate, working length 18 cm
	663327	Scissors, curved up 45°, delicate, sheath 360° rotatable, working length 18 cm
30	28164 KK	de DIVITIIS-CAPPABIANCA Scalpel, with telescopic blade,
		consisting of:
		28164 MA Handle
		28164 MB Outer Sheath
01	28164 M	28164 MS Micro-Knife , sickle-shaped de DIVITIIS-CAPPABIANCA Scalpe , with telescopic blade,
61	20104 11	consisting of:
		28164 MA Handle
		28164 MB Outer Sheath
		28164 MC Micro Knife. pointed
	28164 DM	Elevator, sharp, slightly curved spatula, size 2 mm, with round handle, length 25 cm
	28164 DS	Elevator, sharp, slightly curved spatula, size 3 mm, with round handle, length 25 cm
	28164 DB	Dissector, sharp, round spatula, tip angled 45°, size 3 mm, with round handle, length 25 cm
35	28164 H	CASTELNUOVO Hook, 90°, blunt, length 25 cm, with round handle
36	28164 KB	Curette, round spoon, tip slightly angled, with round handle, length 25 cm
37	28164 RN	CAPPABIANCA-de DIVITIIS Curette , round wire, I.D. 3 mm, tip angled 45°, with round handle, length 25 cm
38	28164 RE	CAPPABIANCA-de DIVITIIS Ring-Curette , round wire, ductile, I.D. 3 mm, tip angled 45°, with round handle, length 25 cm
39	28164 RO	CAPPABIANCA-de DIVITIIS Curette, round wire, I.D. 5 mm, tip angled 45°, with round handle, length 25 cm
40	28164 RJ	CAPPABIANCA-de DIVITIIS Ring-Curette, round wire, ductile, I.D. 5 mm, tip angled 45°, with round handle, length 25 cm
(41)	28164 RI	De DIVITIIS-CAPPABIANCA Ring-Curette, round wire, I.D. 3 mm, tip angled 90°, with round handle, length 25 cm
(42)	28164 RG	Same, I.D. 5 mm
43	28164 RB	de DIVITIIS-CAPPABIANCA Curette, round wire, I.D. 3 mm, distally curved shaft, with round handle, length 25 cm
44	28164 RA	Same, I.D. 5 mm
45	28164 RV	CAPPABIANCA-de DIVITIIS Ring-Curette, round wire, I.D. 3 mm, tip laterally angled 90°, with round handle, length 25 cm
(46)	28164 RD	Same, I.D. 5 mm
(47)	28164 RW	Same, I.D. 7 mm
_	28164 RF	CAPPABIANCA-de DIVITIIS Ring Curette, round wire, I.D. 5 mm, vertical long
Ĩ		curved, with round handle, length 25 cm
49	28164 RSB	de DIVITIIS-CAPPABIANCA Suction-Curette, with round wire, I.D. 5 mm, tip angled 45°
50	28164 RSC	Same, I.D. 7 mm
51	28164 RT	CAPPABIANCA-de DIVITIIS Suction Curette , basket-shape, round wire, size 5 mm, length 25 cm
52	28164 RU	Same, size 6.5 mm

Recommended Set acc. to CAPPABIANCA/DE DIVITIIS

			Take-apart® Bipolar Forceps, width 1 mm, delicate jaws, distally angled 45°, vertical closing, outer diameter 3.4 mm, working length 20 cm, consisting of:26284 HMHandle26284 ASOuter Tube26284 BSInner Tube28164 FGLBipolar Insert
(54	28164 BDM	Take-apart Bipolar Forceps, width 1 mm, delicate jaws, distally angled 45°, horizontal closing, outer diameter 3.4 mm, working length 20 cm, consisting of:26284 HMHandle26284 ASOuter Tube26284 BSInner Tube28164 FGMBipolar Insert
(55	662882	FRANK-PASQUINI Suction Tube, angular, O.D. 2.4 mm, tip curved upwards, ball end, with grip plate and cut-off hole, LUER, working length 13 cm
(56	662885	Same, O.D. 3 mm
(57)	649183	FERGUSON Suction Tube, with cut-off hole and stylet, LUER, working length 15 cm, 10 Fr.
(58	649184	Same, 12 Fr.
(59	649185	Same, 15 Fr.
(50	649179 B	Suction Tube , malleable, with elongated cut-off hole and stylet, LUER, working length 15 cm, 4 Fr.
(51)	649180 B	Same, 6 Fr.
(62	649182 B	Same, 8 Fr.
(63	649183 B	Same, 10 Fr.

4071170-1 **UNIDRIVE NEURO** (not illustrated)

Recommended Containers for Sterilization:

Telesopes:	39301 B (2x)
Instruments:	39360 AK
Articulated stand:	39301 J

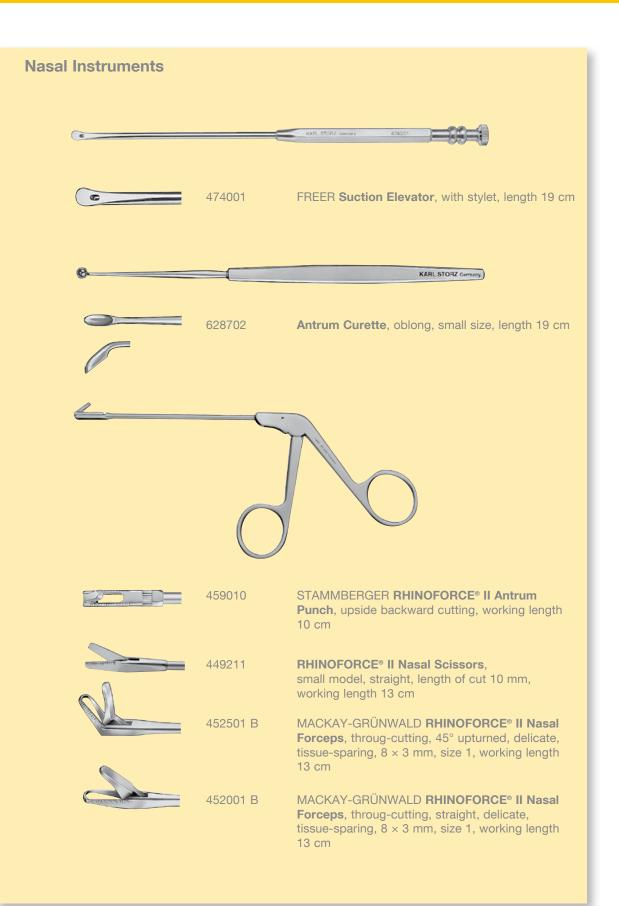
Telescopes

The endoscopic endonasal transsphenoidal approach is performed using rigid endoscopes without any working channel. Most of the procedure is carried out with a 0° degree, 18 cm in length endoscope while the use of angled scopes is required only in selected conditions.

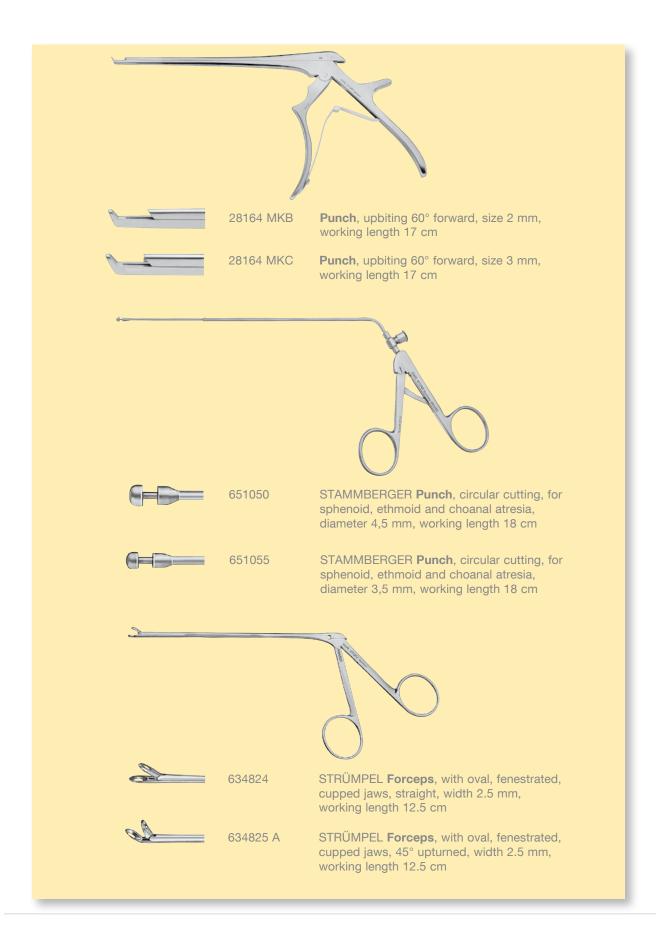
The 30 cm in length endoscope is used together with the endoscope holder when the surgeon prefers to work with a fixed image on the screen.

The 2.7 mm in diameter endoscope is useful in pediatric patients or in narrow nasal cavities.

28132 AA	
7230 AS	
28132 AA	HDPKINSII® Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, autoclavable, fiber optic light transmission
7230 AS	incorporated, color code: green. Irrigation sheath, O.D. 4.8 × 6 mm, working length 14 cm, for use with 머미머니아의® telescopes 28132 AA
28132 BA	H미무너지되지® Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, autoclavable
7230 BS	Irrigation Sheath, O.D. 4.8 × 6 mm, working length 14 cm, for use with ┣◻Ҏᢣเทਙװ® Telescopes 28132 BA
28164 AA	H미모너지의® Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 30 cm, autoclavable
28164 ASA	Irrigation Sheath, O.D. 5.0 mm, working length 24 cm, for use with দিতালগোজ্যা® Telescopes 28164 AA
optional	
28132 FA	H미무서IN들II [®] Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, autoclavable
7230 FS	Irrigation Sheath, O.D. 4.8 × 6 mm, working length 14 cm, for use with ┠┖┏┍ᢣเਸ਼ਙਗ਼ [®] Telescopes 28132 FA
7219 AA	HDPKINSII® Straight Forward Telescope 0°, enlarged view, diameter 2.7 mm, length 18 cm, autoclavable
28164 CAA	I rrigation Sheath, O.D. 3.8 mm, working length 15 cm, for use with দিল্লেশ্যােছা ® Telescopes 7219 AA

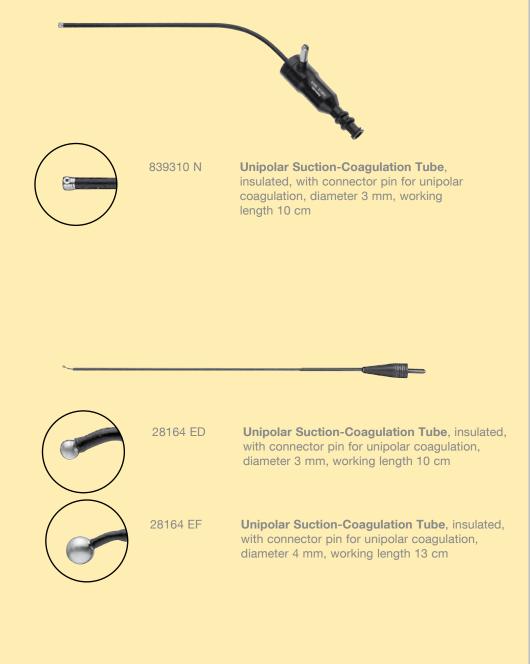


Instrument Details Nasal and Sphenoidal Phase



Mono- and bipolar instruments for bleeding management

The monopolar instruments are recommended for the coagulation of the nasal mucosa. The bipolar forceps (see page 15) are recommended for the coagulation of arterial bleedings, e.g. branches of the sphenopalatine artery, of the dura mater or the intercavernous sinus.



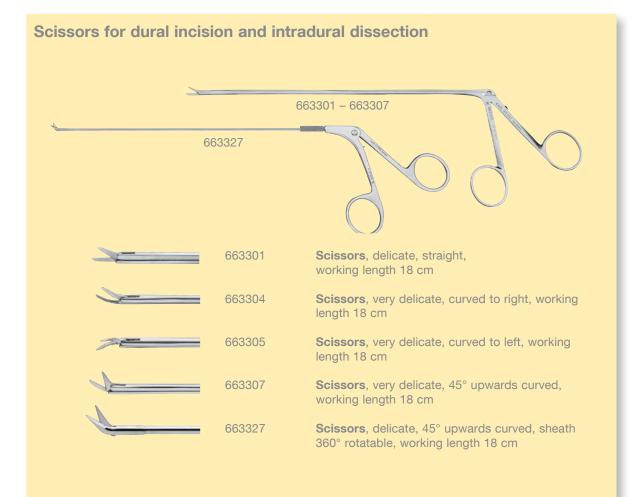
Knives		
Ø		KARL STORZ annen COSCO
	660500	Sickle Knife, length 18 cm
	28164 MP	Round Knife, vertical, 3.5 × 2.5 mm
	KARL STORF GROWN	
	28164 M	deDIVITIIS-CAPPABIANCA Scalpel , with retractable blade, consisting of: 28164 MA Handle 28164 MB Sheath 28164 MC Micro Knife , pointed
	28164 KK	deDIVITIIS-CAPPABIANCA Scalpel , with retractable blade, consisting of: 28164 MA Handle 28164 MB Sheath 28164 MS Micro Knife , sickle-shaped

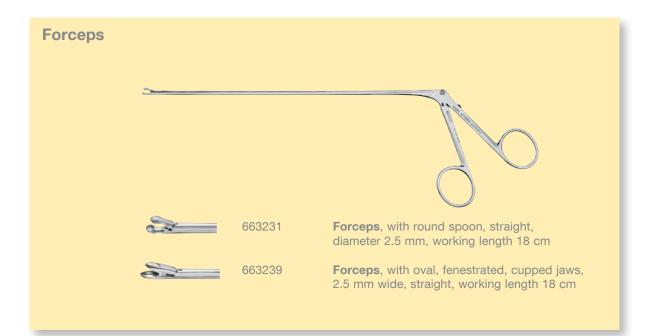
Curettes in different diameters for safe and effective pituitary adenoma removal

	Inner diameter 3 mm. Recommended for Micro-Adenoma	Inner diameter 5 mm. Recommended for Macro-Adenoma	Inner diameter 7 mm. Recommended for Macro-Adenoma
0	28164 RN	28164 RO	-
<u></u>	28164 RI	28164 RG	-
0	28164 RB	28164 RA	-
$\overline{\mathbf{O}}$	28164 RV	28164 RD	28164 RW
	-	28164 RF	-

Malleable Curettes		
0		
	28164 RE	CAPPABIANCA-de DIVITIIS Ring Curette , with round wire, malleable, inner diameter 3 mm, tip angled 45°, with round handle, length 25 cm
Ő	28164 RJ	Same, inner diameter 5 mm
Double Function Curette	es	
€		
	28164 RSB	deDIVITIIS-CAPPABIANCA Suction Curette , blunt, inner diameter 5 mm, tip angled 45°, LUER, length 25 cm
	28164 RSC	Same, inner diameter 7 mm
	28164 RT	CAPPABIANCA-de DIVITIIS Suction Curette, with basket, round, size 5 mm, rotatable tube, LUER, length 25 cm
	28164 RU	CAPPABIANCA-de DIVITIIS Suction Curette, with basket, round, size 6.5 mm, rotatable tube, LUER, length 25 cm
Curettes with special tip)S	
6		
	28164 KB	Curette , round spoon, tip slightly angled, size 2 mm, with round handle, length 23 cm

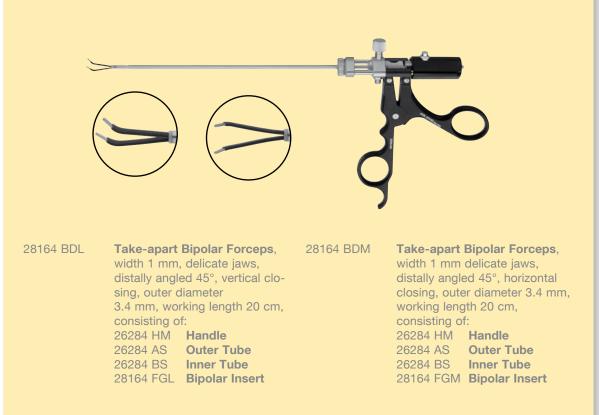




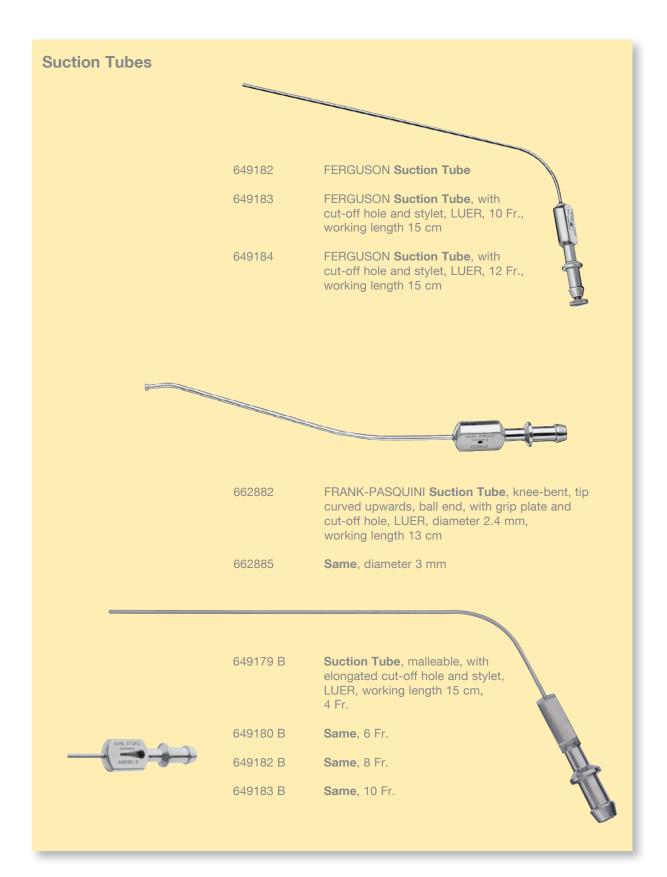


Bipolar instruments for bleeding management

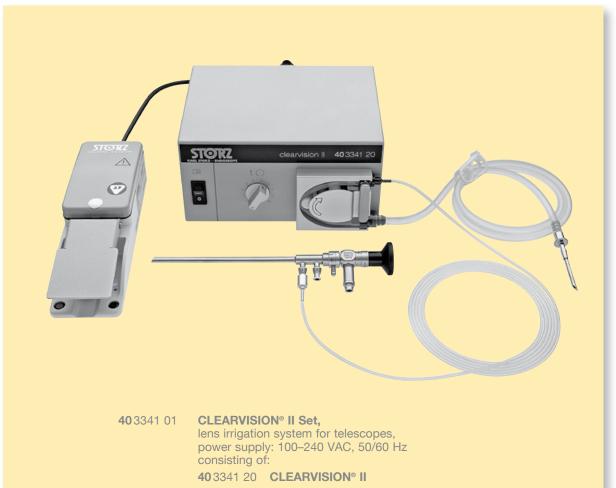
The bipolar forceps are recommended for the coagulation of arterial bleedings, e.g. branches of the spheno-palatine artery, of the dura mater or the intercavernous sinus



Instrument Details Sellar Phase



CLEARVISION® II System for intraoperative cleaning of the front lens



400 A	Mains Cord
20 0102 30	Footswitch
40 3341 40	Silicone Tubing Set, sterilizable

Irrigation sheath

Compatible HDPKINSII® telescope

Detail	Cat. No.	O.D.	Working length	Cat. No.	Direction of view	O.D.	Working length
(7230 AS	4.8 x 6 mm	14 cm	28132 AA	0°	4 mm	18 cm
	7230 BS	4.8 x 6 mm	14 cm	28132 BA	30°	4 mm	18 cm
	7230 CS	4.8 x 6 mm	14 cm	28132 CA	70°	4 mm	18 cm
\sim	7230 FS	4.8 x 6 mm	14 cm	28132 FA	45°	4 mm	18 cm

UNIDRIVE® NEURO



40711701-1 UNIDRIVE® NEURO consisting of: 20711720-1 UNIDRIVE® NEURO with KARL STORZ-**SCB®,** power supply: 100 – 120, 230 – 240 VAC, 50/60 Hz 400 A **Mains Cord** Two-Pedal Footswitch, two-stage, **20**012630 with proportional function **20**711640 Silicone Tubing Set, for irrigation, sterilizable Clip-Set, for use with Tubing Set **20**711621 20711640 SCB Connecting Cable, length 100 cm **20**090170



252479 **INTRA Drill Handpiece,** angled, extra long, 18 cm, for use with 12.5 cm long drills with long shaft, transmission 1:1 (40,000 rpm)

649600 L	Standard Straight Shaft Burr, stainless, length 12.5 cm, size 014 – 070, set of 11
649700 L	Diamond Straight Shaft Burr, stainless, length 12.5 cm, set with 10 pieces, size 014 – 070
649700 GL	Rapid Diamond Straight Shaft Burr, with smooth shaft with coarse grit diamond coating for precise drilling and abrasion without light hand pressure and generating minimal heat, length 12.5 cm, size 023 – 070, set of 9

Cold Light Fountain XENON 300 SCB



20 1331 01-1	integrated KARL one 300 W xenor	ENON 300 Cold Light Fountain, with STORZ SCB, integrated anti-fog pump, a lamp and one KARL STORZ light oply: 100–125/220–240 VAC, 50/60 Hz
	20 1331 20-1	XENON 300
	400 A	Mains Cord
	610 AFT	Silicon Tubing Set, length 250 cm
	20 0901 70	SCB Connecting Cable, length 100 cm
201330 27	XENON Spare La	amp Module, 300 watt, 15 volt
201330 28	XENON Spare La	amp, only, 300 watts, 15 volt

IMAGE 1[™] HD HD camera control unit



- Maximum resolution and the consistent use of the 16:9 aspect ratio guarantee FULL HD
- Endoscopic camera systems have to be equipped with three-CCD chips that support the 16:9 input format as well as capturing images with a resolution of 1920 x 1080 pixels

The benefits of High Definition Technology (HD) for medical applications are

- Up to 6 times* higher input resolution of the camera delivers more detail and depth of focus
- Using 16:9 format during image acquisition enlarges the field of vision and supports ergonomic viewing
- The brilliance of color enables optimal diagnosis
- Lateral view is enhanced by 32% when the endoscope is withdrawn slightly, providing the same image enhancement as a standard system. Any vertical information loss is restored and the lens remains clean

SCR [®]					
51072 #28 maps 1 hub 222010 20	22 201011U102	IMAGE 1 HUB™ HD Camera Control Unit (CCU) with SDI Module			
22 201020-1xx	for use with IMAGE 1 [™] HD and standard one- and three-chip camera heads, max. resolution 1920 x 1080 Pixel, with integrated KARL STORZ SCB [®] and integrated digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz				
	consisting of:				
	0	IMAGE 1 HUB [™] HD (with SDI) Camera Control Unit Mains Cord BNC/BNC Video Cable, length 180 cm S-Video (Y/C) Connecting Cable, length 180 cm Special RGB Connecting Cable Connecting Cable, for controlling peripheral units,			
	20 0400 86 20 0901 70 20 2001 30U	length 180 cm DVI Connecting Cable, length 180 cm SCB Connecting Cable, length 100 cm Keyboard, with English character set			

Specifications:

Signal-to-noise ratio	AGC	Video output			Input		
IMAGE 1 HUB™ HD Three-chip camera systems ≥ 60 dB	Micro- processor- controlled	 Composite signal to BNC socket S-Video signal to 4-pin Mini DIN socket (2x) RGBS signal to D-Sub socket SDI signal to BNC socket (only IMAGE 1 HUB™ HD with SDI module)(2x) HDTV signal to DVI-D socket (2x) 				Keyboard for title generator, 5-pin DIN socket	
Control output /input		Dimensions w x h x d (mm)	Weight (kg)	Power supply	Certified to:		
- KARL STORZ-SCB® at 6-pin Mini DIN socket (2x) - 3.5 mm stereo jack plug (ACC 1, ACC 2), - Serial port at RJ-11 - USB port (only IMAGE 1 HUB™ HD with ICM) (2x)		305 x 89 x 335	2.95	100-240 VAC, 50/60 Hz	No. 6	01-1, 601-2-18, CSA 22.2 01, UL 2601-1 and CE acc. to , protection class 1/CF	

SDI – Serial Digital Interface: optimized to display medical images on Flat Screens, Routing with OR1[™] and digital recording with AIDA-DVD-M

ICM: USB-connector for recording video streams and stills on USB storage media or for connection of USB printers for direct printing of the recorded stills

IMAGE 1[™] HD HD camera head





22220055-3

50 Hz IMAGE 1[™] H3-Z, 60 Hz Drei-Chip HD Kamerakopf

max. resolution 1920 x 1080 pixels, progressive scan, soakable, gas and plasmasterilizable, with integrated Parfocal Zoom Lens, focal length f = 15 - 31 mm(2x), 2 freely programmable camera head buttons, for use with color system PAL/NTSC

Image sensor	3x ⅓" CCD-Chip
Pixel output signall H x V	1920 x 1080
Dimensions	Diameter 32-44 mm, length 114 mm
Weight	246 g
Min. sensitivity	F 1,4/1,17 Lux
Lens	Integrated Parfocal Zoom Lens, f = 15-31 mm
Grip mechanism	Standard eyepiece detector,
Cable	non-detachable
Cable length	300 cm

KARL STORZ				Max. screen resolution	Video input							
HD Flat Screens Color systems PAL/NTSC	Version	Order No.	Screen diagonal	1920 x 1200	Composite signal	S-Video to 4-pin	RGB to 5x BNC	VGA to 15-pin	SDI to BNC socket	HD-SDI to BNC sol to	DVI to DVI-D Soci-	texpon-
-	Wall mounted with VESA	9524 NB	24"									
	100-adaption	9526 NB	26"									
	Desktop with	9524 N	24"				•		•			
pedestal		9526 N	26"									

The following accessories are included:

400 A Mains Cord

9523 PS External 24VDC Power Supply

9419 NSF Pedestal

The Compact Documentation Solution

AIDA compact HD from KARL STORZ combines all the required functions for integrated and precise documentation of endoscopic procedures and open surgeries in a single system.



AIDA compact HD: Voice control



AIDA compact HD: Review screen



AIDA compact HD: Automatic creation of standard reports



AIDA compact HD: Efficient archiving

Data Acquisition

AIDA compact HD 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, voice control, 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. Furthermore, a comment field is available for entering relevant details of an intervention.

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 HD automatically stores the data on a DVD or CD-ROM, creates a standard report and prints it as an overview if required.

Multisession and Multipatient

Efficient data archiving is assured as several treatments can be saved on a DVD, CD-ROM or a USB stick.

Special features:

- Digital storage of still images with a resolution of 1920 x 1080, video sequences in 720p and audio files
- Communication Package DICOM/HL7 (optional)
- Sterile, ergonomic operation via touch screen, voice control, camera head buttons and/or footswitch
- Automatic recognition of connected camera systems at HD-SDI/SD-SDI inputs (of IMAGE1™ camera systems at SD-SDI input only)
- Efficient archiving on DVD, CD-ROM or USB stick, multisession and multipatient
- Network storage possible
- Automatic creation of standard reports
- Computers and monitors for use in the OR area certified according to EN 60601-1
- Compatible with KARL STORZ Communication Bus (SCB) and OR1[™] connect Serie KARL STORZ AIDA[®] compact HD as an attractive, digital alternative to video printers, video recorders and dictating machines



20 0406 08U	KARL STORZ AIDA [®] compact HD System				
Documentation system for digital storage of still images, video					
sequences and	l audio files,				
	power supply: 115/230 VAC, 50/60 Hz				
consisting of:					
20 0460 20	KARL STORZ AIDA [®] control II,				
	with integrated DVD/CD writer				
20 0405 77	AIDA compact II HD-Frame Grabber Card				
20 0902 34U	PS/2 Compact Keyboard, English, with drape				
20 0404 02-17	AIDA [®] compact II HD Software,				
	with voice control and software protection				
20 040275	KARL STORZ USB Stick, with 2 GB				
2x 202210 70	Connecting Cable				
536 MK	BNC-Connecting Cable, length 180 cm				
536 MKD	BNC-Connecting Cable, length 30 cm				
20 0400 86	DVI-Connecting Cable, length 180 cm				
400 A	Mains Cord				
20 0400 87	MiniDIN Cable Plug, to BNC female				

Specifications:

Video Systems	- PAL - NTSC
Signal Inputs	- S-Video (Y/C) - Composite - RGBS - SDI - HD-SDI - DVI
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



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