

# All Instruments for Endonasal Skull Base Surgery Endoscopy and Microscopy

3D



## Endonasal Instruments

Over the years, the development of the endonasal corridor to the pituitary gland and to the skull base fueled the design of an entirely new line of instruments dedicated to these surgical techniques. In four decades, we went from the pioneers' tools made in the local workshop to the industrial quality available around the world nowadays. With many changes! The first generations of instruments were designed to be used with the microscope. The bayonet shape handles and the speculum were the key features. Then the introduction of the endoscope, first as an adjunct to the microscope, then increasingly as the sole visualization technology, has slowly modified the specifications of most instruments. Today KARL STORZ can offer a full range of instruments for all these techniques with a focus on the endoscopic trays.

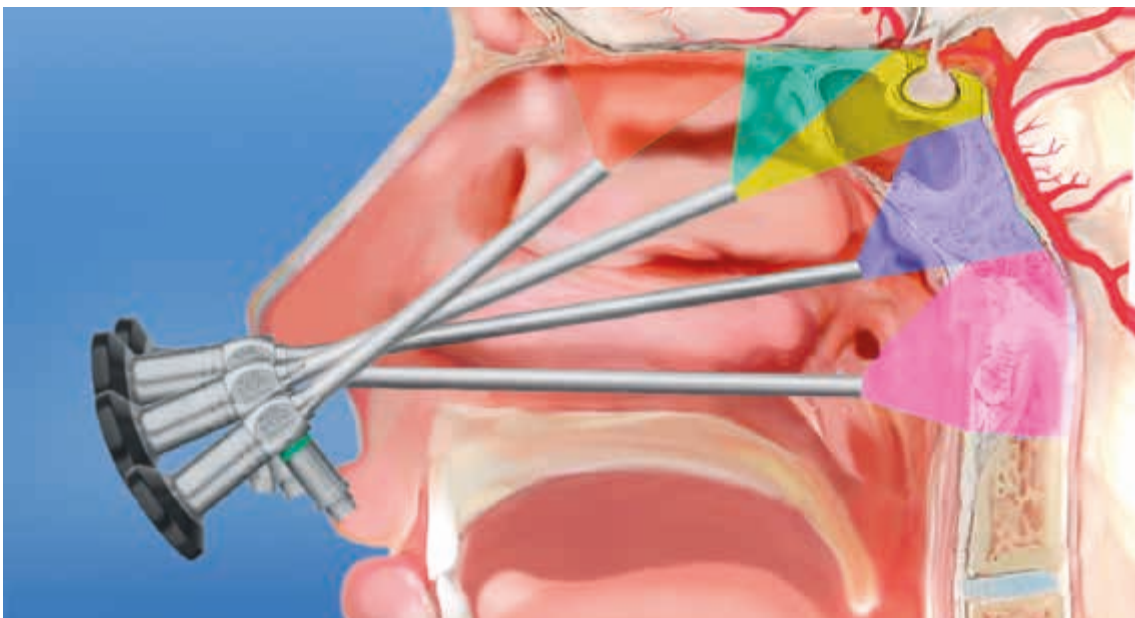
As surgical techniques continue to evolve, the need for new solutions remains as important as ever before. Trends keep the endonasal field continuously evolving. New instruments are regularly introduced, and trays updated. We recently extended our product range with the new 3D endoscopes TIPCAM®1 S in 0° and 30°.

## À-la-Carte Set Configurations

When building or updating an endonasal tray, users are faced with an overwhelming number of options to choose from. Standard sets, designed with the most experienced surgical teams allow surgeons interested in such techniques to benefit from the experience of others.

However, to allow each user to customize their trays, we have gathered here the different options available for each category of instruments.

Users can build their personal trays à-la-carte, following the menu shown here.



## Compiling an Instrument Set for Endonasal Pituitary and Skull Base Surgery

To compile an instrument set for endonasal surgery, the user can follow the steps below and choose from various instrument categories or sub-sets.

**Telescopes**

**Lens Irrigation Systems**

**Suction Tubes**

**Coagulation**

**KERRISON Bone Punches**

**Curettes, Dissectors, Hooks and Knives**

**Scissors**

**Forceps**

**Specula and Armrests**

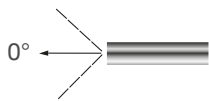
**Motor System**

## 3D Telescopes

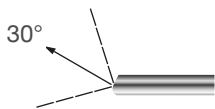


### TIPCAM®1 S 3D NEURO 3D telescope with 4 mm sheath diameter

With TIPCAM®1 S 3D, KARL STORZ sets new standards in 3D endoscopy with its brilliant, three-dimensional display. As part of the modular IMAGE1 S™ camera platform, the existing system can be easily upgraded to 3D.



28164 AA 3D\* **TIPCAM®1 S 3D NEURO**, direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, **autoclavable**, S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™



28164 BA 3D\* **TIPCAM®1 S 3D NEURO**, direction of view 30°, diameter 4 mm, length 18 cm, two FULL HD image sensors, **autoclavable**, S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™

### TIPCAM®1 S 3D ORL

Endonasal approaches to the skull base – outside the central nervous system – are also suitable for TIPCAM®1 S 3D ORL.

7240 AA 3D **TIPCAM®1 S 3D**, direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, **autoclavable**, S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™

7240 BA 3D **TIPCAM®1 S 3D**, direction of view 30°, diameter 4 mm, length 18 cm, two FULL HD image sensors, **autoclavable**, S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™

\* Currently not available on CE markets

## Straight Telescopes



**HOPKINS® Telescopes, autoclavable**, with connection for fiber optic light cable on upper side, fiber optic light transmission incorporated, color-coded according to direction of view

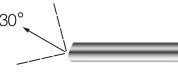

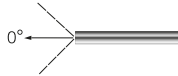
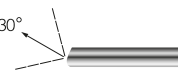


Direction of View	Order No.	Outer Diameter	Length
	28132 AA	4 mm	18 cm
	28132 BA		
	28132 BVA		
	28132 FA		
	28132 FVA		
	28132 CA		
	28132 CVA		
	28132 BWA		
	28164 AA	30 cm	
	28164 BA		
	28018 AA	2.7 mm	18 cm

For other telescopes, please refer to the KARL STORZ product catalog.

## Angled Telescopes



**HOPKINS® Telescopes, autoclavable**, angled eyepiece,  
fiber optic light transmission incorporated, color-coded according to direction of view

Direction of view	Order No.	Outer Diameter	Length
	28162 AVA	4 mm	20 cm
	28162 BVA		
	28162 FVA		
	28162 AKA	2.7 mm	
	28162 BKA		
	28162 FKA		
	28162 CKA		

## EndoCAMeleon® NEURO HOPKINS® Telescope

The ENDOCAMELEON® is the latest addition to the HOPKINS® product family of rod lens telescopes – and by far the most versatile.

With a simple turn of the control dial, the ENDOCAMELEON® enables the user to easily select the direction of view between 15° and 90°. Consequently, the surgeon can quickly and easily select the direction of view that provides optimal orientation and control in any situation.

The ENDOCAMELEON® from KARL STORZ takes the endoscopic OR to a new quality level as it noticeably improves orientation during an intervention – without the time-consuming changeover between several telescopes – and thus enables safe and smooth surgery.

The ENDOCAMELEON® combines the user comfort of the proven HOPKINS® endoscopes with unprecedented versatility – offering the high quality associated with KARL STORZ telescopes.

### Special Features:

- Variable direction of view (15° to 90°)
- Easy-to-use control dial for selecting the direction of view
- Lightweight and modern design
- HOPKINS® telescope with unique rod lens system
- Diameter 4 mm, length 18 cm
- Standard eyepiece fits any camera head



The familiar ergonomics and handling of conventional telescopes are now complemented by the convenience of a variable direction of view



The direction of view is changed using the control dial at the proximal end of the ENDOCAMELEON®

## Telescope



28132 AE **ENDOCAMELEON® NEURO 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® HOPKINS® Telescope and KARL STORZ lens irrigation system CLEARVISION® II

## Lens Irrigation Systems

### CLEARVISION® for Intraoperative Cleaning of the Front Lens



**Irrigation Sheath**, proximally reinforced, for use with Clamping Jaw 28272 UK



**Compatible HOPKINS® Telescopes**

	Order No.	Outer Diameter	Working Length	Compatible Telescope	Direction of View	Outer Diameter	Length		
	28164 CAA	3.8 mm	15 cm	28018 AA	0°	2.7 mm	18 cm		
	28164 CAB			7229 BA	30°				
	28164 CAF			7229 FA	45°				
	28164 ASA	5 mm	24 cm	28164 AA	0°	4 mm	30 cm		
	28164 BSA			28164 BA	30°				
	28164 CBA		14 cm	28132 AA	0°		18 cm		
	28164 CBB			28132 BA	30°				
	28164 CBF			28132 FA	45°				
	28164 CBC			28132 CA	70°				
	28162 AVS		5 mm	18 cm	28162 AVA		0°	4 mm	20 cm
	28162 BVS				28162 BVA		30°		
	28162 FVS	28162 FVA			45°				
	28164 CAK	3.8 mm	15 cm	28162 AKA	0°	2.7 mm	20 cm		
	28164 CBK			28162 BKA	30°				
	28164 CFK			28162 FKA	45°				
	28164 CCK			28162 CKA	70°				



**CLEARVISION® II Suction and Irrigation Sheath**, for simultaneous intraoperative irrigation and suction of the telescope



**Compatible HOPKINS® Telescopes**

	Order No.	Outer Diameter	Working Length	Compatible Telescope	Direction of View	Outer Diameter	Length
	7230 AS	4.8 mm x 6 mm	14 cm	28132 AA	0°	4 mm	18 cm
	7230 BS			28164 AA 3D			
	7230 FS			28132 BA	30°		
	7230 CS			28164 BA 3D			
				28132 FA	45°		
		28132 CA	70°				

CLEARVISION® II Sheaths for use with CLEARVISION® II Set 403341 01



## THUMFART Irrigation and Suction Endoscope

With ergonomic ring handle, with press or push button valve for switching irrigation on and off, for use with HOPKINS® telescopes diameter 2.7 and 4 mm as well as Irrigation and Suction Sheaths 723527 A-F and 28160 TA-TBL




	Order No.	Outer Diameter	Working Length	Compatible Telescope	Direction of View	Outer Diameter	Length	Cleaning Accessories
	28160 TA	4.8 mm x 6 mm	12 cm	28132 AA	0°	4 mm	18 cm	28160 TL, 28160 TK
	28160 TB			28132 BA	30°			28160 TL, 28160 TK
	28160 TF			28132 FA	45°			28160 TL, 28160 TK
	28160 TC			28132 CA	70°			28160 TL, 28160 TK
	28160 TAL		24 cm	28164 AA	0°		28160 TLL, 28160 TK	
	28160 TBL			28164 BA	30°		28160 TLL, 28160 TK	

For use with Suction Irrigation Handle 28161 TD/TT/JD/JT, 723630

## Suction Tubes




### Suction Tubes, with grip plate

	Order No.	Description	Diameter	Working Length
	28164 XG	<b>Suction Tube</b> , with grip plate, elongated cut-off hole, distal holes, LUER	9 Charr.	15 cm
	28164 XM		7 Charr.	
	28164 XK		5 Charr.	




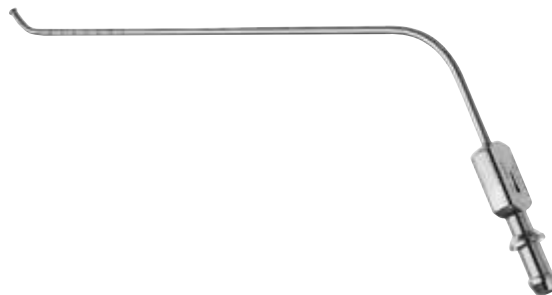
### Suction Tubes, malleable

	Order No.	Description	Diameter	Working Length
	649179 A	<b>Suction Tube</b> , malleable, with elongated cut-off hole and stylet, LUER	4 Charr.	12 cm
	649179 B			15 cm
	649179 C			18 cm
	649180 A		6 Charr.	12 cm
	649180 B			15 cm
	649180 C			18 cm
	649182 A		8 Charr.	12 cm
	649182 B			15 cm
	649182 C			18 cm
	649183 A		10 Charr.	12 cm
	649183 B			15 cm
	649183 C			18 cm




### Suction Tubes, conical distal end with markings

	Order No.	Description	Diameter	Working Length
	28164 XB	<b>Suction Tube</b> , with cut-off hole, drop-shaped, with distance markings, LUER, conical distal end	6 Charr.	15 cm
	28164 XA		8 Charr.	





### Suction Tubes, short curve, with olive

	Order No.	Description	Diameter	Working Length
	28164 XC	<b>Suction Tube</b> , with cut-off hole, drop-shaped, with distance markings, LUER, conical distal end, tip curved upwards, ball end	8 Charr.	15 cm




### Suction Tubes, angular, with markings

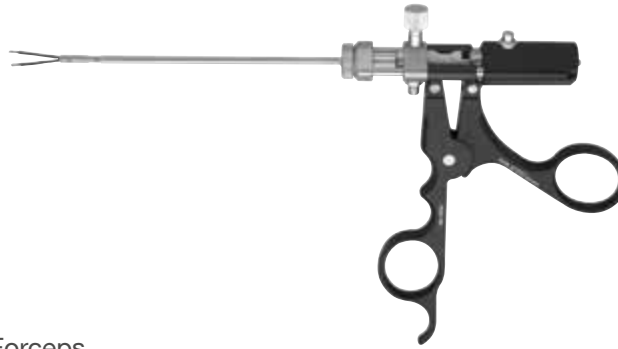
	Order No.	Description	Diameter	Working Length
	28164 XE	<b>Suction Tube</b> , with cut-off hole, drop-shaped, with distance markings, LUER, conical distal end, malleable	6 Charr.	15 cm
	28164 XD		8 Charr.	



### Insulated Suction/Coagulation Cannulas

	Order No.	Description	Diameter	Working Length
	28164 MXA	<b>Insulated Cannula for Suction and Coagulation</b> , curved 90°	2.5 mm	16 cm
	28164 MXB		3 mm	
	28164 MXC		3,6 mm	

## Coagulation





### TAKE-APART® Bipolar Forceps

	Order No.	Description	Width of Jaws	Working Length
	28164 BDB	<b>TAKE-APART® Bipolar Forceps</b> , short, rounded tip, outer diameter 3.4 mm	2 mm	14 cm
	28164 BDC	<b>TAKE-APART® Bipolar Coagulation Forceps</b> , short, outer diameter 3.4 mm		
	28164 BDN	<b>TAKE-APART® Bipolar Forceps</b> , rounded tip, outer diameter 3.4 mm	2 mm	20 cm
	28164 BDM	<b>TAKE-APART® Bipolar Forceps</b> , with fine jaws, distally angled 45°, horizontal closing, outer diameter 3.4 mm	1 mm	
	28164 BDD	<b>TAKE-APART® Bipolar Forceps</b> , distally angled 45°, horizontal closing, outer diameter 3.4 mm	2 mm	
	28164 BDK	<b>TAKE-APART® Bipolar Forceps</b> , distally angled 45°, horizontal closing, size 3.4 mm	4 mm	
	28164 BDL	<b>TAKE-APART® Bipolar Forceps</b> , with fine jaws, distally angled 45°, vertical closing, outer diameter 3.4 mm	1 mm	
	28164 BDG	<b>TAN TAKE-APART® Bipolar Coagulation Forceps</b> , size 3.4 mm	3 mm	
	28164 BGS	<b>TAKE-APART® Bipolar Forceps</b> , with fine jaws, size 3 mm, distally angled 45°	2 mm	10 cm
	26176 LV	<b>Bipolar High Frequency Cord</b> , for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125), AUTOCON® II 200, AUTOCON® II 80 and Valleylab coagulator	-	300 cm
	26176 LW	<b>Bipolar High Frequency Cord</b> , pin distance on unit side 22 mm, for use with high frequency surgical units with bipolar sockets with 22 mm pin distance	-	300 cm





### Bipolar Forceps

	Order No.	Description	Width of Jaws	Working Length
	28164 BGK	<b>Bipolar Forceps</b> , jaws curved upwards 45°, for bipolar coagulation in skull base and pituitary surgery	-	18 cm
	847002 V	<b>Bipolar High Frequency Cord</b> , for AUTOCON® II 400 SCB system (112, 114, 116), Valleylab coagulator, with two 2 mm cable sockets for bipolar suction forceps, 28.58 mm pin distance	-	450 cm








### Unipolar Coagulation Ball Electrodes\*

	Order No.	Description	Diameter	Working Length
	28164 ED	<b>Coagulation Ball Electrode</b> , laterally curved	2 mm	13 cm
	28164 EF	<b>Coagulation Ball Electrode</b> , laterally curved	4 mm	

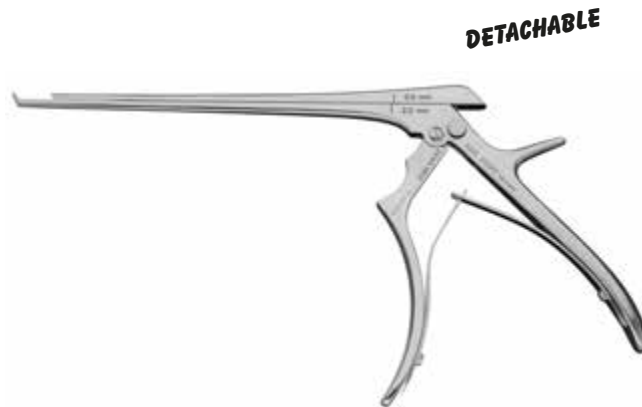
\* Available Unipolar High Frequency Cords (26002 M, 26004 M, 26005 M, 26006 M) are selected in accordance with the generator used. Please refer to the KARL STORZ product catalog for more detailed information.












## Bipolar Coagulation Forceps

	Order No.	Description	Tip	Working Length
	28164 BPA	<b>Bipolar Coagulation Forceps</b> , insulated, bayonet-shaped, blunt, total length 23 cm	0.7 mm	12 cm
	28164 BPB	<b>Bipolar Coagulation Forceps</b> , insulated, bayonet-shaped, blunt, total length 25 cm		14 cm
	28164 BPC	<b>Bipolar Coagulation Forceps</b> , insulated, bayonet-shaped, blunt, total length 23 cm	0.3 mm	12 cm
	847000 V	<b>Bipolar High Frequency Cord</b> , for KARL STORZ AUTOCON® II 400 SCB systems (112, 114, 116, 122, 125), Valleylab coagulator and KARL STORZ bipolar coagulation forceps, 28.58 mm pin distance	-	300 cm
	847000 W	<b>Bipolar High Frequency Cord</b> , pin distance on the unit side 22 mm, for use with HF units with bipolar sockets with 22 mm pin distance and KARL STORZ bipolar coagulation forceps	-	300 cm

# KERRISON Bone Punches



## KERRISON Bone Punches

	Order No.	Description	Size	Working Length
	28164 MKA	<b>Bone Punch</b> , detachable, rigid, upbiting 60° forward	1 mm	17 cm
	28164 MKB		2 mm	
	28164 MKC		3 mm	
	28164 MKK		4 mm	
	28164 MKL		5 mm	
	28164 MKD	<b>Bone Punch</b> , detachable, rigid, downbiting 60° forward	1 mm	
	28164 MKE		2 mm	
	28164 MKF		3 mm	
	28164 MKO		4 mm	

## Curettes, Dissectors, Hooks and Knives


### Curettes



	Order No.	Description	Size	Working Length	Length
	28164 KA	<b>Curette</b> , round spoon, with round handle	1 mm	15 cm	25 cm
	28164 KB		2 mm		
	28164 KC		3 mm		
	28164 KF		2 mm		
	28164 KG		3 mm		
	28164 KLA	<b>Spoon Curette</b> , straight	1 mm	13 cm	23 cm
	28164 KLB	<b>Spoon Curette</b> , angled 45°			
	28164 KLC	<b>Spoon Curette</b> , angled 90°			
	28164 KLD	<b>Spoon Curette</b> , straight, round handle	0.8 mm		
	28164 KLE	<b>Spoon Curette</b> , angled 45°, round handle			
	28164 KLF	<b>Spoon Curette</b> , angled 90°, round handle			
	28164 KLG	<b>Spoon Curette</b> , straight	2 mm		
	28164 KLH	<b>Spoon Curette</b> , angled 45°			
	28164 KLI	<b>Spoon Curette</b> , angled 90°			



### Ring Curettes



	Order No.	Description	Inner Diameter	Working Length	Length
	28164 RN	<b>Ring Curette</b> , with round wire, tip angled 45°, with round handle	3 mm	15 cm	25 cm
	28164 RO		5 mm		
	28164 RP		7 mm		
	28164 RE	<b>Ring Curette</b> , with round wire, malleable, tip angled 45°, with round handle	3 mm		
	28164 RJ		5 mm		
	28164 RK		7 mm		



	Order No.	Description	Inner Diameter	Working Length	Length		
	28164 RI	<b>Ring Curette</b> , with round wire, tip angled 90°, with round handle	3 mm	15 cm	25 cm		
	28164 RG		5 mm				
	28164 RH		7 mm				
	28164 RB	<b>Ring Curette</b> , with round wire, laterally curved sheath end, with round handle	3 mm				
	28164 RA		5 mm				
	28164 RC		7 mm				
	28164 RV	<b>Ring Curette</b> , with round wire, laterally curved sheath end 90°, with round handle	3 mm				
	28164 RD		5 mm				
	28164 RW		7 mm				
	28164 RR	<b>Curette</b> , blunt, stirrup-shaped, with round handle	-				





#### CAPPABIANCA-de DIVITIIS Ring Curettes

	Order No.	Description	Outer Diameter	Working Length	Length
	28164 RF	<b>Ring Curette</b> , with round wire, vertical, with round handle	5 mm	15 cm	25 cm
	28164 RM	<b>Ring Curette</b> , with round wire, horizontal, with round handle	5 mm		



#### FRANK-PASQUINI Ring Curettes

	Order No.	Description	Outer Diameter	Working Length	Length
	28164 FRA	<b>Ring Curette</b> , distal end curved, vertical	2.6 mm	15 cm	25 cm
	28164 FRC		5 mm		
	28164 FRE		7 mm		
	28164 FRB	<b>Ring Curette</b> , distal end curved, horizontal	2.6 mm		
	28164 FRD		5 mm		
	28164 FRF		7 mm		





### Ring Curettes, bayonet-shaped

	Order No.	Description	Outer Diameter	Working Length	Length
	28164 GGO	<b>Ring Curette</b> , bayonet-shaped, round wire, tip angled upwards 90°, with round handle	5 mm	17 cm	25 cm
	28164 GGU	<b>Ring Curette</b> , bayonet-shaped, round wire, tip angled downwards 90°, with round handle			
	28164 GKO	<b>Ring Curette</b> , bayonet-shaped, blunt, tip angled upwards 45°, with round handle	4 mm		
	28164 GKU	<b>Ring Curette</b> , bayonet-shaped, blunt, tip angled downwards 45°, with round handle			
	28164 GLL	<b>Ring Curette</b> , bayonet-shaped, blunt, tip angled to left 90°, with round handle	3.3 mm		
	28164 GLR	<b>Ring Curette</b> , bayonet-shaped, blunt, tip angled to right 90°, with round handle			









### CAPPABIANCA-de DIVITIIS Suction Curettes

	Order No.	Description	Size	Working Length	Length
	28164 RT	<b>Suction Curette</b> , with basket, with round wire, rotatable tube, LUER	5 mm	15 cm	25 cm
	28164 RU		6.5 mm		
	28164 RSB	<b>Suction Curette</b> , blunt, tip angled 45°, LUER	5 mm		
	28164 RSC		7 mm		



GAAB Angled Curettes

	Handle		Length
			
	<b>Order no. for the complete instrument</b>		20 cm
28164 KS	28164 KSS	28164 KST	
	<b>CLICKLINE Curette</b> , bendable up to 90°, round spoon, size 3.5 mm		
28164 RS	28164 RSS	28164 RST	
	<b>CLICKLINE Ring Curette</b> , round, bendable up to 90°, size 4.8 mm		
28164 KL	28164 KLS	28164 KLT	
	<b>CLICKLINE Curette</b> , bendable up to 90°, round spoon, size 4.5 mm		
28164 RL	28164 RLS	28164 RLT	
	<b>CLICKLINE Ring Curette</b> , round, bendable up to 90°, size 3.8 mm		







## Dissectors

	Order No.	Description	Width	Working Length	Length
	28164 DA	<b>Dissector</b> , sharp, tip angled 45°, round spatula, with round handle	2 mm	15 cm	25 cm
	28164 DB		3 mm		
	28164 DF	<b>Dissector</b> , sharp, tip angled 15°, flat long spatula, with round handle	1.5 mm	13 cm	23 cm
	28164 DT	<b>Dissector</b> , semi sharp, slightly curved spatula, tip angled 15°, with round handle	1 mm		
	28164 DM	<b>Dissector</b> , sharp, slightly curved spatula, straight, with round handle	3 mm	13 cm	23 cm
	28164 DS	<b>Dissector</b> , sharp, tip angled 15°, with round handle	2 mm		
	28164 DLA	<b>Dissector</b> , tip angled 15°	1 mm	13 cm	23 cm
	28164 DLB	<b>Dissector</b> , tip angled 45°			
	28164 DLC	<b>Dissector</b> , tip angled 90°			
	28164 DLD	<b>Dissector</b> , tip angled 15°	0.5 mm	13 cm	23 cm
	28164 DLE	<b>Dissector</b> , tip angled 45°			
	28164 DLF	<b>Dissector</b> , tip angled 90°			




### Double Elevators

	Order No.	Description	Width	Length
	28164 EA	CASTELNUOVO <b>Double Elevator</b> , semisharp and blunt	2.2 mm / 3.0 mm	26 cm
	28164 EB	CASTELNUOVO <b>Double Elevator</b> , angled end shovel-shaped, semisharp, blunt end slightly curved	2.2 mm / 3.0 mm	
	28164 EC	CASTELNUOVO <b>Double Elevator</b> , blunt end angled, semisharp end slightly curved, graduated	2.2 mm / 3.3 mm	
	28164 EP	FRANK-PASQUINI <b>Double Elevator</b> , blunt, curved to right and left	2.2 mm	




### Round Knives

	Order No.	Description	Width	Working Length	Length
	28164 TLA	<b>Round Knife 0°</b>	1 mm	15 cm	25 cm
	28164 TLB	<b>Round Knife 45°</b>			
	28164 TLC	<b>Round Knife 90°</b>			
	28164 TLD	<b>Round Knife 0°</b>	2 mm		
	28164 TLE	<b>Round Knife 45°</b>			
	28164 TLF	<b>Round Knife 90°</b>			



### Micro Raspatories

	Order No.	Description	Width	Working Length	Length
	28164 ELS	<b>Micro Raspatory</b> , single curved to left	2 mm	15 cm	25 cm
	28164 EL			17 cm	27 cm
	28164 ERS	<b>Micro Raspatory</b> , single curved to right		15 cm	25 cm
	28164 ER			17 cm	27 cm







### Dissectors, bayonet-shaped, sharp

	Order No.	Description	Width	Working Length	Length	
	28164 GBO	<b>Dissector</b> , bayonet-shaped, sharp, round spatula, tip angled upwards 45°, with round handle	2 mm	15 cm	25 cm	
	28164 GBU					<b>Dissector</b> , bayonet-shaped, sharp, round spatula, tip angled downwards 45°, with round handle
	28164 GFO	<b>Dissector</b> , bayonet-shaped, sharp, flat long spatula, tip angled upwards 15°, with round handle				1.5 mm
	28164 GFU					
	28164 DL	<b>Dissector</b> , bayonet-shaped, sharp, curved to left	2 mm	13.5 cm	24 cm	
	28164 DR					<b>Dissector</b> , bayonet-shaped, sharp, curved to right





### CASTELNUOVO Hooks

	Order No.	Description	Width	Working Length	Length
	28164 H	<b>Hook</b> , 90°, blunt, with round handle	0.6 mm	15 cm	25 cm
	28164 HA	<b>Seeker</b> , angled 45°	1 mm		
	28164 HB	<b>Seeker</b> , angled 90°	0.4 mm		
	28164 HC	<b>Seeker</b> , angled 90°	1 mm		








### de DIVITIIS-CAPPABIANCA Scalpels

	Order No.	Description	Working Length	Length
	28164 M	de DIVITIIS-CAPPABIANCA <b>Scalpel</b> , with retractable blade	13 cm	23 cm
	28164 KK	de DIVITIIS-CAPPABIANCA <b>Scalpel</b> , with retractable blade		

## Scissors




### Scissors

	Order No.	Description	Working Length
	28164 MZB	<b>Scissors</b> , straight, with small handle, with cleaning connector	18 cm
	28164 MZC	<b>Scissors</b> , curved to right, with small handle, with cleaning connector	
	28164 MZD	<b>Scissors</b> , curved to left, with small handle, with cleaning connector	
	28164 MZE	<b>Scissors</b> , angled upwards, with small handle, with cleaning connector	
	28164 SAD	<b>Scissors</b> , upturned 45°, delicate, sheath 360° rotatable, with cleaning connector	

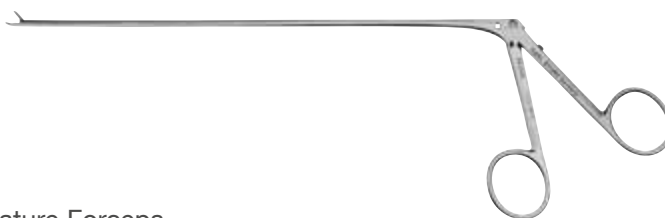


### SEPEHRNIA Micro Scissors

	Order No.	Description	Working Length
	28164 SBA	<b>Micro Scissors</b> , bayonet-shaped, sharp/sharp, straight	10 cm
	28164 SBB	<b>Micro Scissors</b> , bayonet-shaped, sharp/sharp, curved to left	
	28164 SBC	<b>Micro Scissors</b> , bayonet-shaped, blunt/blunt, jaw straight	
	28164 SBD	<b>Micro Scissors</b> , bayonet-shaped, sharp/sharp, jaw curved to right	
	28164 SBE	<b>Micro Scissors</b> , bayonet-shaped, sharp/sharp, jaw horizontal	



## Forceps



### Double Spoon Miniature Forceps

	Order No.	Description	Spoon Diameter	Working Length
	28164 TD	<b>Forceps</b> , round cupped jaws, extra delicate, straight	0.6 mm	18 cm
	28164 T	<b>Forceps</b> , oval cupped jaws, extra delicate, straight	0.9 mm	
	28164 TA	<b>Forceps</b> , oval cupped jaws, extra delicate, upturned		
	28164 TE	<b>Forceps</b> , oval cupped jaws, extra delicate, curved to right	0.6 mm	
	28164 TF	<b>Forceps</b> , oval cupped jaws, extra delicate, curved to left		





### Cutting Forceps

	Order No.	Description	Spoon Diameter	Working Length
	28164 MZF	<b>Spoon Forceps</b> , single action jaws	3 x 10 mm	17 cm






### SEPEHRNIA Spoon Forceps

	Order No.	Description	Spoon Diameter	Working Length
	28164 PBB	<b>Micro Forceps</b> , bayonet-shaped	2 mm	10 cm
	28164 PBE		4 mm	
	28164 PBF		6 mm	
	28164 PBG	<b>Micro Forceps</b> , bayonet-shaped, spoon horizontal	2 mm	
	28164 PBH		4 mm	
	28164 PBI		6 mm	




### SEPEHRNIA Grasping Forceps

	Order No.	Description	Size	Working Length
	28164 PBA	<b>Micro Grasping Forceps</b> , bayonet-shaped, straight jaws, smooth	0.5 mm	10 cm
	28164 PBC	<b>Micro Grasping Forceps</b> , bayonet-shaped, straight jaws, serrated	3 mm	
	28164 PBD	<b>Micro Grasping Forceps</b> , bayonet-shaped, jaws curved to left	0.75 mm	




### Grasping Forceps

	Order No.	Description	Size	Working Length
	28164 MZA	<b>Grasping Forceps</b> , fine serration, straight, with cleaning connector	-	18 cm






### Miniature Grasping Forceps

	Order No.	Description	Size	Working Length
	28164 GF	<b>Miniature Grasping Forceps</b> , serrated, straight	-	18 cm



Miniature Forceps, through-cutting

	Order No.	Description	Bite	Working Length
	28164 GS	<b>Miniature Forceps</b> , straight, through-cutting, with fine flat jaws	1 mm	18 cm
	28164 GR	<b>Miniature Forceps</b> , curved to right, through-cutting, with fine flat jaws		
	28164 GL	<b>Miniature Forceps</b> , curved to left, through-cutting, with fine flat jaws		
	28164 GU	<b>Miniature Forceps</b> , curved upwards, through-cutting, with fine flat jaws		



RHINOFORCE® II, through-cutting

	Order No.	Description	Bite	Working Length
	28164 UA	<b>RHINOFORCE® II Nasal Forceps</b> , with extra fine flat jaws, through-cutting, tissue-sparing, straight sheath, straight jaws, with cleaning connector	1.5 mm	18 cm
	28164 UB	<b>RHINOFORCE® II Nasal Forceps</b> , with extra fine flat jaws, through-cutting, tissue-sparing, straight sheath, jaws angled upwards 45°, with cleaning connector		
	28164 UE	<b>RHINOFORCE® II Nasal Forceps</b> , with extra fine flat jaws, through-cutting, tissue-sparing, straight sheath, jaws angled downwards 45°, with cleaning connector		
	28164 UD	<b>RHINOFORCE® Nasal Forceps</b> , with extra fine, flat jaws, through-cutting, tissue-sparing, sheath end curved upwards 25°, jaws angled downwards 45°		

## GAAB Specula



GAAB Titanium Speculum, MR-compatible, black coating, for transnasal operations, with obturator, for use with holding arm\*

Order No.	Length	Obturator
28164 GSA	70 x 14 mm	28164 OA
28164 GSB	80 x 14 mm	28164 OB
28164 GSC	90 x 14 mm	28164 OC

\* For compatible holding arms, please refer to the KARL STORZ product catalog.

## Armrest

This armrest makes it easier to keep a steady hand, even during long surgeries. This can be used with KARL STORZ holding arms and is simply attached via the KSLOCK.



28272 AR **Armrest**, with quick release coupling, rotating, for use with mechanical holding systems with KSLOCK

# UNIDRIVE® S III NEURO SCB



40701701-1\* **UNIDRIVE® S III NEURO SCB**, motor system with color display, touch screen, two motor outputs, integrated irrigation pump and integrated SCB module, 100-240 VAC, 50/60 Hz including:

**Mains Cord**

**Irrigator Rod**

**Two-Pedal Footswitch**

**SCB Connecting Cable**, length 100 cm

**Single Use Tubing Set**, sterile, package of 3

<b>Specifications:</b>			
Touch Screen	6.4"/300 cd/m <sup>2</sup>	Dimensions w x h x d	300 x 165 x 265 mm
Available languages	English, French, German, Spanish, Italian, Portuguese, Greek, Turkish, Polish, Russian	Weight	5.2 kg
Power supply	100-240 VAC, 50/60 Hz	Certified to:	IEC 601-1, CE acc. to MDD

All items on this page are not available for sale in the USA.

**It is recommended to check the suitability of the product for the intended procedure prior to use.**

## Recommended KARL STORZ Standard Set Configuration

### Endonasal

- 40 7017 01-1      **UNIDRIVE® S III NEURO SCB**, motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and integrated SCB module, power supply 100-240 VAC, 50/60 Hz
  
- 20 7120 33      **High-Speed Micro-Motor**, max. speed 60,000 rpm, including connecting cable
  - 252671      **High-Speed Handpiece**, extra long, malleable, slim, angled, 60,000 rpm
  - 252672      **High-Speed Handpiece**, super long, malleable, slim, angled, 60,000 rpm
  - 252662      **High-Speed Handpiece**, medium, angled, 60,000 rpm
  - 252663      **High-Speed Handpiece**, long, angled, 60,000 rpm
  
- 40 7120 50      **DRILLCUT-X® II Shaver Handpiece**
  - 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**

Note: Drill and shaver inserts have to be ordered separately.

**For all handpieces and shavers, please refer to the KARL STORZ product catalog.**



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THE DIAMOND STANDARD

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