

All Instruments for Endonasal  
Skull Base Surgery  
Endoscopy and Microscopy



## 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.

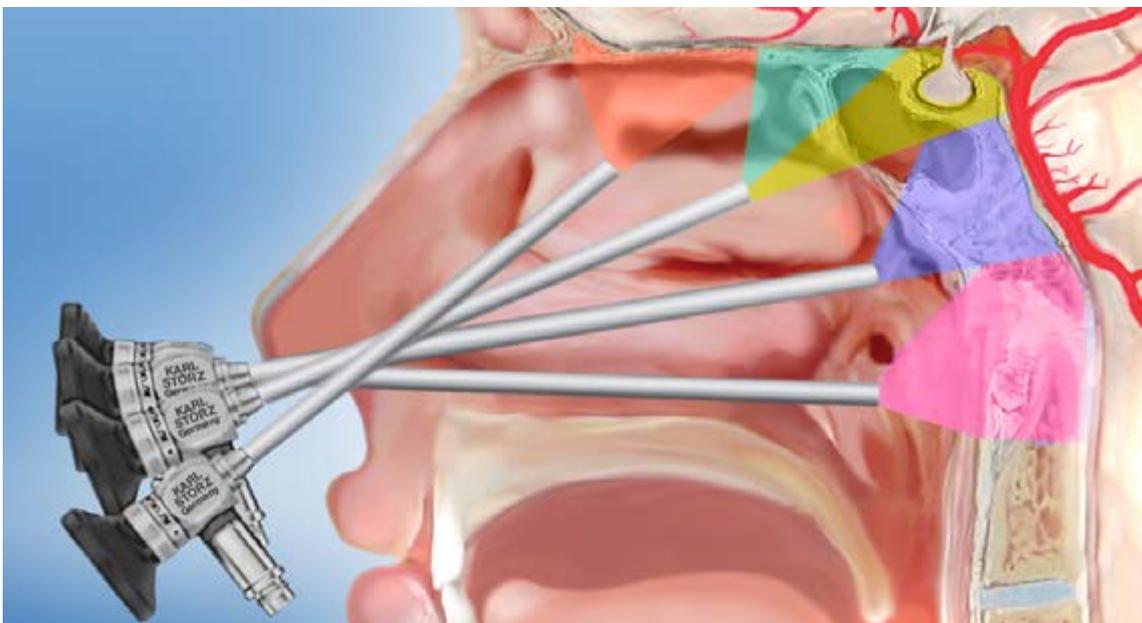
As surgical techniques continue to evolve, the need for new solutions remains as important as ever before. Trends keep the endonasal field continuously evolving. New instruments are regularly introduced, and trays updated.

## 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**

**Access Tray\***

**Suction Tubes**

**Coagulation**

**KERRISON Bone Punches**

**Curettes, Dissectors and Hooks**

**Scissors**

**Forceps**

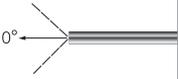
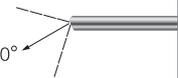
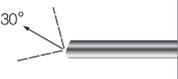
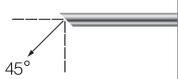
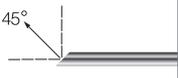
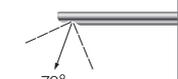
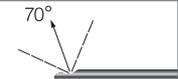
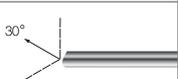
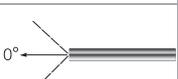
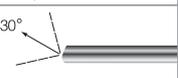
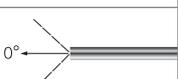
**Optional**

\* not shown here

## Straight Telescopes



**HOPKINS® Forward-Oblique Telescope**, enlarged view, **autoclavable**, 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	

## Angled Telescopes



**HOPKINS® Straight Forward Telescope**, enlarged view, **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® 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® II for Intraoperative Cleaning of the Front Lens



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



**Compatible HOPKINS® Telescopes**

	Order No.	Outer Dia.	Working Length	Order No.	Direction of View	Outer Dia.	Length	
	28164 CAA	3.8 mm	15 cm	28018 AA	0°	2.7 mm	18 cm	
	28164 CAB			7219 BA	30°			
	28164 CAF			7219 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			4.8 mm	18 cm			28162 AVA
	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°			

## 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 Dia.	Working Length	Order No.	Direction of View	Outer Dia.	Length
	28160 TA	4.8 mm x 6 mm	12 cm	28132 AA	0°	4 mm	18 cm
	28160 TB			28132 BA	30°		
	28160 TF			28132 FA	45°		
	28160 TC			28132 CA	70°		
	28160 TAL		24 cm	28164 AA	0°		30 cm
	28160 TBL		28164 BA	30°			

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

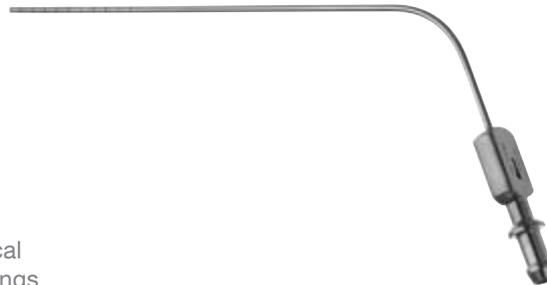
## Suction Tubes

	Order No.	Description	Diameter	Working Length
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Suction Tubes, angular

	649179 A	<b>Suction Tube</b> , malleable, with elongated cut-off hole and stylet, LUER	4 Fr.	12 cm
	649179 B			15 cm
	649179 C			18 cm
	649180 A		6 Fr.	12 cm
	649180 B			15 cm
	649180 C			18 cm
	649182 A		8 Fr.	12 cm
	649182 B			15 cm
	649182 C			18 cm
	649183 A		10 Fr.	12 cm
	649183 B			15 cm
	649183 C			18 cm



Suction Tubes, conical  
distal end with markings

	28164 XB	<b>Suction Tube</b> , with cut-off hole, drop-shaped, with distance markings, LUER, conical distal end	6 Fr.	15 cm
	28164 XA		8 Fr.	15 cm

	Order No.	Description	Diameter	Working Length
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Suction Tube, short curve with olive

	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 Fr.	15 cm
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Suction Tubes, angular, with markings

	28164 XE	<b>Suction Tube</b> , with cut-off hole, drop-shaped, with distance markings, LUER, conical distal end, malleable	6 Fr.	15 cm
	28164 XD		8 Fr.	



Insulated Suction/Coagulation Cannulas

	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	

## TWINFlow Suction and Irrigation Handle

	Art. No.	Description	Diameter	Working Length
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	28164 SI	<b>TWINFlow Suction and Irrigation Handle</b> including: <b>Suction and Irrigation Handle, Suction and Irrigation Unit, Cleaning Adaptor, Set, Cleaning Brushes, incl. Suction and Irrigation Tube 28164 SIA, SIB, SIC, SID</b> (see below; package of 5)		
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	28164 SIA	<b>Suction and Irrigation Tube</b> , angled, for single use	2 mm	9 cm
	8164 SIB	<b>Suction and Irrigation Tube</b> , angled, for single use	2 mm	13 cm
	28164 SIC	<b>Suction and Irrigation Tube</b> , angled, for single use	4 mm	9 cm
	28164 SID	<b>Suction and Irrigation Tube</b> , angled, for single use	4 mm	13 cm

## Bipolar Coagulation

	Order No.	Description	Width of Jaws	Working Length
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TAKE-APART® Bipolar Forceps

	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 Forceps</b> , short, pointed tip, outer diameter 3.4 mm			
	28164 BDM	<b>TAKE-APART® Bipolar Forceps</b> , with fine jaws, distally angled 45°, horizontal closing, outer diameter 3.4 mm	1 mm	20 cm	
	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, outer diameter 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>TAKE-APART® TAN Bipolar Coagulation Forceps</b> , size 3.4 mm	3 mm		
	26176 LA	<b>Bipolar High Frequency Cord</b> , with 2x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab Coagulator	-		300 cm

	Order No.	Description	Width of Jaws	Working Length
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Bipolar Coagulation Forceps

	28164 BPA	<b>Bipolar Coagulation Forceps</b> , insulated, bayonet-shaped, blunt, tip 0.7 mm, total length 23 cm	0.7 mm	12 cm
	28164 BPB	<b>Bipolar Coagulation Forceps</b> , insulated, bayonet-shaped, blunt, tip 0.7 mm, total length 25 cm		14 cm
	28164 BPC	<b>Bipolar Coagulation Forceps</b> , insulated, bayonet-shaped, blunt, tip 0.3 mm, total length 23 cm	0.3 mm	12 cm
	847000 A	<b>Bipolar High Frequency Cord</b> , for KARL STORZ Coagulator 260020 XA/XB, Bircher, Bovie, Keymend, Mallis, Valleylab, Neomed, Bard and KARL STORZ bipolar coagulation forceps	-	300 cm



STAMMBERGER Bipolar Forceps

	28164 BGK	<b>Bipolar Forceps</b> , jaws curved upwards 45°, for bipolar coagulation in skull base and pituitary surgery	-	18 cm
	847002 A	<b>Bipolar High Frequency Cord</b> , with 2x 4 mm banana plug for KARL STORZ coagulator 26020 XA/XB, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK	-	450 cm

## KERRISON Bone Punches

	Order No.	Description	Size	Working Length
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KERRISON Bone Punches

	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, with round spoon

	Order No.	Description	Size	Length
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#### CAPPABIANCA-de DIVITIIS Curettes

	28164 KA	<b>Curette</b> , round spoon, tip slightly angled, with round handle	1 mm	25 cm
	28164 KB		2 mm	
	28164 KC		3 mm	
	28164 KF		2 mm	
	28164 KG		3 mm	

### Ring Curettes

	Order No.	Description	Inner Dia.	Length
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#### CAPPABIANCA-de DIVITIIS Ring Curettes

	28164 RN	<b>Ring Curette</b> , with round wire, tip angled 45°, with round handle	3 mm	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	Length
	28164 RI	<b>Ring Curette</b> , with round wire, tip angled 90°, with round handle	3 mm	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

	28164 RF	<b>Ring Curette</b> , with round wire, vertical, tip angled 45°, with round handle	5 mm	25 cm
	28164 RFL		7 mm	
	28164 RM	<b>Ring Curette</b> , with round wire, horizontal, tip angled 45°, with round handle	5 mm	
	28164 RML		7 mm	

	Order No.	Description	Outer Diameter	Working Length
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FRANK-PASQUINI Ring Curettes

	28164 FRA	<b>Ring Curette</b> , distal end curved, vertical	2.6 mm	15 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	

	Order No.	Description	Outer Diameter	Length
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GAAB Ring Curettes, bayonet-shaped

	28164 GGO	<b>Ring Curette</b> , bayonet-shaped, round wire, tip angled upwards 90°, with round handle	5 mm	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		

	Order No.	Description	Size	Length
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CAPPABIANCA-de DIVITIIS Suction Curettes

	28164 RT	<b>Suction Curette</b> , with basket, round, rotatable tube, LUER	5 mm	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 Bendable Curettes



Length	Handle	
20 cm		

28164 KS	Order no. for the complete instrument	
	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	Length
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### Sharp Dissectors

	28164 DA	<b>Dissector</b> , sharp, tip angled 45°, round spatula, with round handle	2 mm	25 cm
	28164 DB		3 mm	
	28164 DF	<b>Dissector</b> , sharp, tip angled 15°, flat long spatula, with round handle	1.5 mm	
	28164 DG		2 mm	
	28164 DT	<b>Dissector</b> , 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	
	28164 DS	<b>Dissector</b> , sharp, tip angled 15°, with round handle	2 mm	



### Elevators, double-ended

	21864 EA	CASTELNUOVO <b>Elevator</b> , double-ended, semisharp and blunt	-	26 cm
	28164 EB	CASTELNUOVO <b>Elevator</b> , double-ended, angled end shovel-shaped, semisharp, blunt end slightly curved		
	28164 EC	CASTELNUOVO <b>Elevator</b> , double-ended, blunt end angled, semisharp end slightly curved, graduated		
	28164 EP	FRANK-PASQUINI <b>Elevator</b> , double-ended, blunt, curved to right and left	2.2 mm	

	Order No.	Description	Width	Length
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Micro Raspatories

	28164 ELS	<b>Micro Raspatory</b> , single curved to left, length 25 cm	2 mm	25 cm
	28164 EL			27 cm
	28164 ERS	<b>Micro Raspatory</b> , single curved to right, length 27 cm		25 cm
	28164 ER			27 cm



GAAB Dissectors

	28164 GBO	<b>Dissector</b> , bayonet-shaped, sharp, round spatula, tip angled upwards 45°, with round handle	3 mm	25 cm
	28164 GBU			
	28164 GFO	<b>Dissector</b> , sharp, flat long spatula, tip angled upwards 15°, with round handle	1.5 mm	
	28164 GFU			



Dissectors, bayonet-shaped, sharp

	28164 DL	<b>Dissector</b> , bayonet-shaped, sharp, curved to left	-	24 cm
	28164 DR	<b>Dissector</b> , bayonet-shaped, sharp, curved to right		

## Hooks

	Order No.	Description	Width	Length
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### CASTELNUOVO Hooks

	28164 H	<b>Hook</b> , 90°, blunt, with round handle	-	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	

## Knives

	Order No.	Description
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### de DIVITIIS-CAPPABIANCA Scalpels

	28164 M	de DIVITIIS-CAPPABIANCA <b>Scalpel</b> , with retractable blade
	28164 KK	de DIVITIIS-CAPPABIANCA <b>Scalpel</b> , with retractable blade

## Scissors

	Order No.	Description	Working Length
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Scissors

	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	



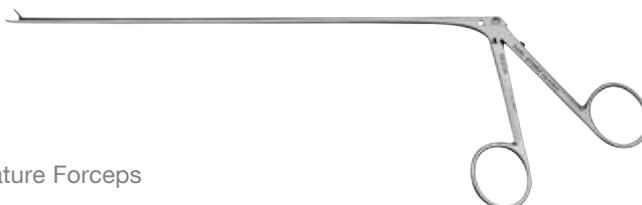
SEPEHRNIA Micro Scissors

	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

### Spoon Forceps

	Order No.	Description	Cup Diameter	Working Length
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Double Spoon Miniature Forceps

	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

	28164 MZF	<b>Spoon Forceps</b> , single action jaws	3 x 10 mm	17 cm
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SEPEHRNIA Spoon Forceps

	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	

## Grasping Forceps

	Order No.	Description	Size	Working Length
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### SEPEHRNIA Grasping Forceps

	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

	28164 MZA	<b>Grasping Forceps,</b> fine serration, straight, with cleaning connector	-	18 cm
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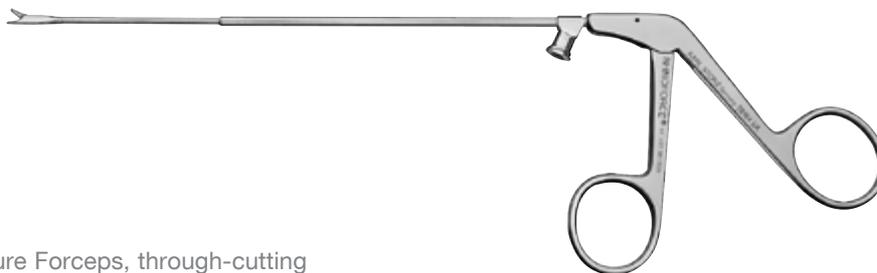


### Miniature Grasping Forceps

	28164 GF	<b>Miniature Grasping Forceps,</b> serrated, straight	-	18 cm
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## Through-cutting Forceps

	Order No.	Description	Bite	Working Length
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Miniature Forceps, through-cutting

	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		

	Order No.	Description	Width of Cut	Working Length
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RHINOFORCE® II, through-cutting

	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°		

## Clip Applying Forceps

	Order No.	Description	Size	Working Length
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### SEPEHRNIA Micro Clip Applying Forceps

	28164 ZBA	<b>Micro Clip Applying Forceps,</b> Yasargil clips	-	10 cm
	28164 ZBB	<b>Micro Clip Applying Forceps,</b> Yasargil mini-clips		

## Needle Holders



### SEPEHRNIA Micro Needle Holders

	28164 NBB	<b>Micro Needle Holder,</b> bayonet-shaped, straight jaws	2 x 6 mm	10 cm
	28164 NBC	<b>Micro Needle Holder,</b> bayonet-shaped, jaws curved to left	1 x 6 mm	

## GAAB Speculum



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

## Holding Arm



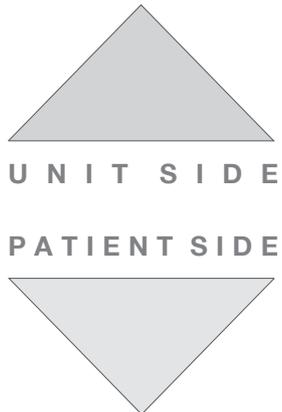
28272 RKB **Holding System, autoclavable**, with quick release coupling KSLOCK including:

**Rotation Socket**, to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand

**Articulated Stand**, reinforced version, L-shaped, with one central clamp for all five joint functions, height 48 cm, swivel range 52 cm, with quick release coupling KSLOCK (female)

**Clamping Jaw**, metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths

# UNIDRIVE® S III NEURO SCB



## UNIDRIVE® S III NEURO SCB



40701701-1 **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 including:

**Mains Cord**

**Irrigator Rod**

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

**Silicone Tubing Set**, for irrigation, sterilizable

**Clip Set**, for use with tubing set

**SCB Connecting Cable**, length 100 cm

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

Specifications:			
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



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E-Mail: info@mtp-tut.de, www.mtp-tut.com

### Consent to receive electronic information

Yes, I agree to receive future information by email at the following address:

Email

Name

Department / Practice

Street address

ZIP, Town

Signature

I agree to my data being stored at KARL STORZ for this purpose. I can withdraw my consent at any time and without giving reasons by emailing KARL STORZ at info@karlstorz.com. KARL STORZ will not make these data available to third parties.



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