

Instruments for Endoscopic and Open Thoracic Spine Procedures





Thoracic spine surgery is often considered to be challenging. Teams specializing in this type of intervention treat discs, spinal trauma, deformations and even tumors.

There are, of course, hardly any similarities between the surgical treatment of a spinal trauma and the treatment of a spinal cord tumor. Irrespective of the different indications, some similarities nevertheless exist with regard to the surgical access and visualization for the thoracic region.

As part of a long and rich history of innovation in minimally invasive surgery, KARL STORZ has developed surgical access and visualization strategies exclusively for thoracic spine surgery. This product portfolio continues to grow thanks to co-operation with some of the world's most experienced surgeons and meanwhile covers the entire spectrum ranging from open surgery to keyhole interventions through to the percutaneous approach. Visualization strategies range from exoscopy to endoscopically assisted techniques through to interventions under full endoscopic visualization.

This brochure classifies all options according to product type (endoscopes, coagulation instruments, forceps, curettes, retractors etc.). This makes it easy and convenient for the surgeon to assemble a instrument set to suit individual needs or to upgrade existing equipment in order to extend the range of indications in the thoracic region and/or to make surgical access even less invasive.

Assembling an instrument set for endoscopic and open thoracic spine procedures

To assemble an instrument set, the user can follow the steps shown below and choose from the different instrument categories.

Telescopes

Trocars

Hooks, Specula, Dilation Rods

Retractors

Coagulation

Suction and Irrigation Systems

Clip Applicator and Needle Holders

Knot Tier and Sponge Holder

Bone Punches

Forceps

Curettes, Dissectors, Hooks and Knives

Accessories

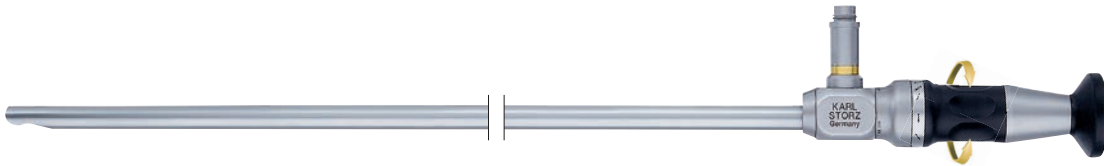
Holding Systems

Telescopes

Art. No.	Description	Diameter	Length
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	26003 AA	HOPKINS® II Straight Forward Telescope 0° , enlarged view, autoclavable, fiber optic light transmission incorporated, color code: green	10 mm	31 cm
	26003 BA	HOPKINS® II Forward-Oblique Telescope 30° , autoclavable, fiber optic light transmission incorporated, color code: red		

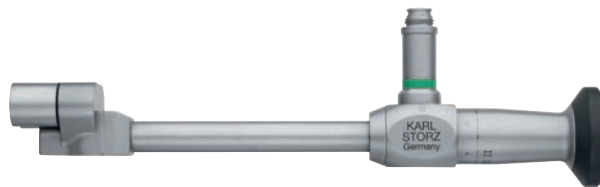


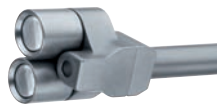
	26003 AE	ENDOCAMELEON® HOPKINS® Telescope , autoclavable, variable direction of view from 0° – 120°, adjustment knob for selecting the desired direction of view, fiber optic light transmission incorporated, color code: gold	10 mm	32 cm
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	Art. No.	Description	Diameter	Length
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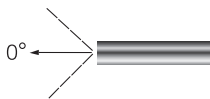


	28095 VDA	VITOM® II SPINE HOPKINS® II Telescope 90° with Integrated Illuminator , working distance 25 – 75 cm, autoclavable , with fiber optic light transmission incorporated and condensor lenses, color code: blue	-	11 cm
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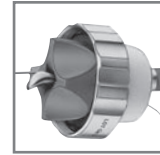


	28095 VAA	VITOM® II SPINE HOPKINS® II 0° with Integrated Illuminator , working distance 25 – 75 cm, autoclavable , with fiber optic light transmission incorporated and condensor lenses, color code: green	-	11 cm
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	28095 VA	VITOM® SPINE HOPKINS® II Straight Forward Telescope 0° , working distance 25 – 75 cm, autoclavable , fiber optic light transmission incorporated, color code: green	10 mm	11 cm
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Trocars



Cannula



Trocar


Size:		6 mm	11 mm
Working length:		8.5 cm	8.5 cm
Color code:		black	green
	Trocar , with blunt tip including:	30120 NOL	30123 NOL
	Cannula , flexible, with silicone leaflet valve	30120 NL	30123 NL
	Trocar	30120 NO	30123 O



Cannula



Trocar

Size:		11 mm	
Working length:		6 cm	8.5 cm
	Plastic Trocar , with blunt tip including:	40103 GD	40103 HX
	Plastic Cannula , with thread	40103 G	40103 H
	Trocar	40103 D	40103 X

Note: Instruments with curved jaws or distally angled sheaths must be used with trocars with flexible cannulas!

For **KARL STORZ trocars** only the individual components are numbered. The catalog number for the **entire assembled trocar**, as shown above in **bold** print, does not appear on the instrument.

Hooks, Specula, Dilation Rods

Art. No.	Description	Size	Length
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801702	KOCHER-LANGENBECK Retractor	35 x 8 mm	21.5 cm
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28090 SG	Speculum	-	6 cm
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26020 OM	Dilation Rod , for HEINKEL-SEMM Dilation Set 26020 HM and 26020 HP	-	-
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Retractors

Art. No.	Description	Length
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28163 VR	ROSENTHAL Angled Retractor , with movable retractor blades, in three lengths, can be clamped to the holding arm with the KSLOCK	
2x 28163 VRM	Retractor Blade	12 cm
2x 28163 VRK	Retractor Blade	14 cm
2x 28163 VRG	Retractor Blade	18 cm
2x 28272 HB	Articulated Stand, L-shaped	-
2x 28172 HR	Rotation Socket , to clamp to the operating table	-



28163 TRX	TENTACLE Spine Retractor , complete, with retractor frame, 2 retractor arms, X-ray transparent blades in 3 different lengths, light carrier with corresponding tools	
Complete set, consisting of:		
28163 TRF	Retractor Frame	-
28163 TRA	Retractor Arm	-
2x 28163 TRD	Drive Screw	-
2x 28163 TRB	Retractor Arm, extra	-
4x 28163 TBB	PEEK Retractor Blade	70 mm
4x 28163 TBS	PEEK Retractor Blade	50 mm
4x 28163 TBM	PEEK Retractor Blade	30 mm
6x 28163 TSB	Holder, for retractor blades	-
28163 TRL	Light Carrier	-
28163 TSL	Holder, for light carriers	-
28163 TSD	Screwdriver	-
28163 TSH	Positioning Instrument	-
39260 TRC	Sterilization Container	-

Art. No.	Description	Size	Length
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28163 FP	Fan Retractor , dismantling, distendable	10 mm	30 cm
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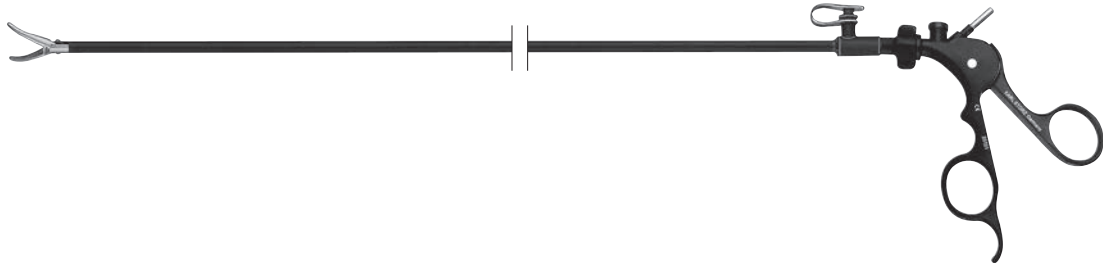


28163 BFP	Articulating Fan Retractor , distally bendable up to 30°, finger bracing width 7.5 cm, autoclavable , for use with trocars size 11	10 mm	34 cm
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Unipolar Coagulation



Art. No.	Description	Diameter	Length
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	33321 ML	CLICKLINE KELLY Dissecting and Grasping Forceps , rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock connector for cleaning, double action jaws, long	5 mm	36 cm
	33321 UL	CLICKLINE REDDICK-OLSEN Dissecting and Grasping Forceps , rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, robust		
	33321 R	CLICKLINE Dissecting and Grasping Forceps , rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, right-angled		
	34321 MS	CLICKLINE METZENBAUM Scissors , rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock connector for cleaning, double action jaws, curved		
	34321 EK	CLICKLINE Hook Scissors , rotating, dismantling, with connector pin for unipolar coagulation, with irrigation connection for cleaning, single action jaws, tips of jaws not crossing		




	Art. No.	Description	Diameter	Length
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	30804	Handle with Trumpet Valve, for suction or irrigation, autoclavable , for use with 5 mm coagulating suction tubes and 5 mm suction and irrigation tubes	-	-
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	30775 UF	Coagulation and Dissection Electrode, L-shaped, with connector pin for unipolar coagulation	5 mm	36 cm
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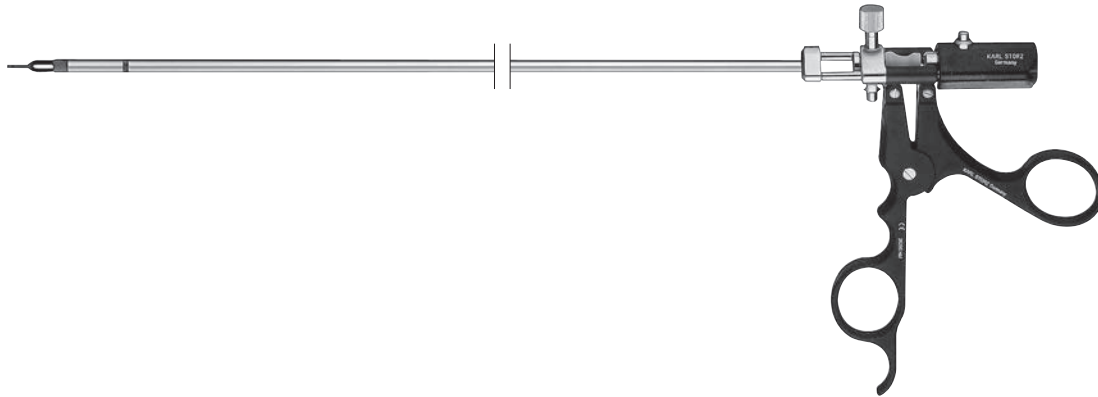


	26775 UE	Coagulation and Dissection Electrode, spatula-shaped, blunt, with connector pin for unipolar coagulation	5 mm	36 cm
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Bipolar Coagulation



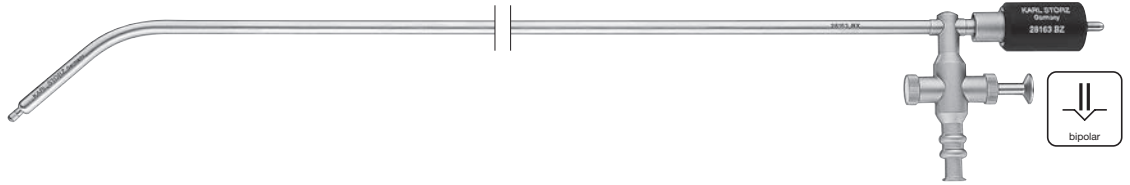
Art. No.	Description	Diameter	Length
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	26276 HD	TAKE-APART® MANHES Bipolar Coagulation Forceps , width of jaws 3 mm	5 mm	33 cm
	26276 HK	TAKE-APART® SCHNEIDER Bipolar Grasping Forceps , with connector pin for bipolar coagulation, with movable inner sheath and non-retracting jaws, robust jaws		
	38361 ML	RoBi® KELLY Dissecting and Grasping Forceps , CLERMONT-FERRAND model, rotating, dismantling, with connector pin for bipolar coagulation, with LUER-Lock irrigation connector for cleaning, double action jaws, especially suitable for dissection	5 mm	36 cm


Suction and Irrigation Tubes

	Art. No.	Description	Diameter	Length
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	28163 BSN	TAKE-APART® Bipolar Coagulation Suction Tube, with stopcock	5 mm	30 cm
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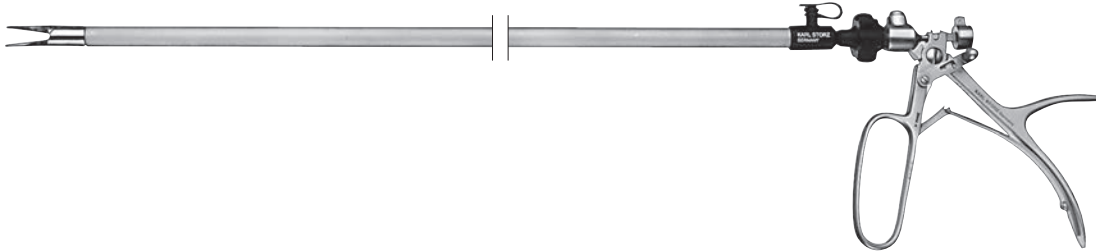
	37370 GC	GORDTS and CAMPO Coagulating Suction and Irrigation Tube, bipolar, for use with suction and irrigation handles	5 mm	36 cm
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	26173 BN	Suction and Irrigation Tube, with lateral holes, with two-way stopcock for single hand control	5 mm	36 cm
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Clip Applicator and Needle Holder

	Art. No.	Description	Diameter	Length
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	30444 LR	Clip Applicator , dismantling, rotating, for PILLING-WECK Titanium Clips 30460 AL (medium-large), with ratchet to lock the jaw holding the clip	10 mm	36 cm
 original size	30460 AL	PILLING-WECK Titanium Clip , medium-large, box with 16 sterile cartridges, 10 clips each, for use with Clip Applicator 30444 LR	-	-




	30173 FAO	KOH Macro Needle Holder , dismantling, with LUER-Lock irrigation connector for cleaning, single action jaws, straight jaws, with tungsten carbide inserts, with ergonomic handle, axial, disengageable ratchet, ratchet position top, for use with suture material size 0/0 – 7/0	5 mm	33 cm
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Knot Tier and Sponge Holder

	Art. No.	Description	Diameter	Length
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	26596 CL	CICE Knot Tier, CLERMONT-FERRAND model, for extracorporeal knotting	5 mm	36 cm
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	32540 PT	Surgical Sponge Holder, self-retaining	10 mm	30 cm
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Bone Punches

Art. No.	Description	Jaws	Round Sheath Diameter	Working Length
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	28163 RKG	Rongeur , dismantling, graduated scale at the distal end	5 mm	10 mm	30 cm
	28163 RGG	Rongeur , dismantling, graduated scale at the distal end	8 mm		
	28163 RKK	Rongeur , upturned 30°, dismantling, graduated scale at the distal end, for use with trocars size 11 mm	5 mm		





	28163 PKS	KERRISON Bone Punch , dismantling, graduated scale at the distal end, 40° upbiting, not through-cutting	3 mm	10 mm	30 cm
	28163 PKG	KERRISON Bone Punch , dismantling, graduated scale at the distal end, 90° upbiting, not through-cutting			


Forceps

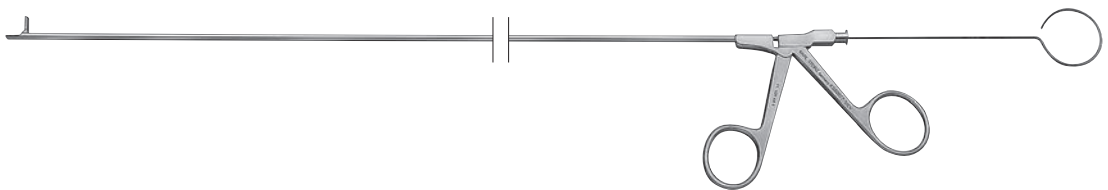
	Art. No.	Description	Diameter	Length
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	28163 UK	Spoon Forceps , round, single action jaws	2.5 mm	30 cm
	28163 FBM	Grasping Forceps , double action jaws	2.7 mm	36 cm



	28163 UM	Spoon Forceps , oval, single action jaws	2 mm	30 cm
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	28163 FZ	Grasping Forceps , single action jaws, with 90° angle of view	3.5 mm	36 cm
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Curettes

	Art. No.	Description	Diameter	Jaw Size	Working Length
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	28163 WC	Curette , sharp, spoon-shaped, oval	10 mm	3.5 x 5 mm	30 cm
	28163 WD	Same		3.5 x 9 mm	
	28163 WE	Same		5 x 6.5 mm	
	28163 WF	Same		5.5 x 7.5 mm	
	28163 WK	Same , round		5 mm	
	28163 WL	Same , oblong		2.5 x 6 mm	
	28163 WM	Same , oblong		3.5 x 9 mm	
	28163 SBK	Curette , stirrup-shaped, for straightening end plates		-	





	28163 GI	Spoon Curette , sharp	5 mm	4 x 6 mm	36 cm
	28163 GK	Same		3 x 4 mm	
	28163 GL	Spoon Curette , sharp, spoon angled 45°		3 x 4 mm	

	Art. No.	Description	Diameter	Ring Size Diameter	Working Length
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	28163 WN	Ring Curette , graduated, distal end slightly curved	10 mm	8 mm	30 cm
	28163 WG	Ring Curette , graduated, distal end slightly curved		6 mm	



Dissectors, Hooks

	Art. No.	Description	Diameter	Length
				
	28163 FDW	Dissector , distally curved 45°	2.6 mm	36 cm
				
	26169 DO	Mikro-Messer n. BERCI, spitz, ausfahrbar,	5 mm	31 cm
				
	28163 WH	Hook , 90°, blunt	10 mm	30 cm
				
	28163 GH	Palpation Hook , hook angled 90°, blunt	5 mm	36 cm
				
	28163 BT	Stumpfer Taststab , skaliert, zur Verwendung mit Trokaren der Größe 11 mm	5 mm	30 cm
				
	28163 MS	Stößel , stumpf, gerieft, zum Positionieren eines Knochenspans	10 mm	30 cm




Raspatories, Chisels

	Art. No.	Description	Diameter	Length
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	28163 RR	Raspatory	5 mm	36 cm
	28163 KR	Same	2 mm	



	28163 MF	Raspatory , for dissection	7 mm	30 cm
	28163 RP	Rasp , for coarsening the bone surface	10 mm	
	28163 MS	Tappet , blunt, graduated, for positioning the bone implant		



	28163 MN	Chisel , graduated, double-edged grinding, straight	7 mm	30 cm
	28163 MM	Same	10 mm	



	28163 BO	Stumpfes Osteotom , skaliert, mit Silikonhandgriff, zur Verwendung mit Trokaren der Größe 11 cm	10 mm	30 cm
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	28163 BE	Rippenköpfchen Elevatorium , skaliert, mit sichelförmiger Schneide, mit Silikonhandgriff, zur Verwendung mit Spekulum 28163 BSS oder Spekulum 28090 SG	10 mm	30 cm
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Accessories

Art. No.	Description	Length
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28163 WZ	Distance Measuring Instrument , with cm-markings and cm-slots for radiologic measurement, for monosegmental measuring	5 cm
28163 WX	Distance Measuring Instrument , with cm-markings and cm-slots for radiologic measurement, long, for bisegmental measuring	8 cm



28163 MK	Collar , for deflecting the mallet, for use with Chisel 28163 MM	-
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28163 CM	COTTLE Metal Mallet , with plastic replacement head	22.5 cm
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Holding Systems

Art. No.	Description
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28272 RGB	<p>Holding System, autoclavable, with quick release coupling KSLOCK including:</p> <ul style="list-style-type: none">Rotation Socket, to clamp to the OR tableArticulated Stand, L-shapedClamping Jaw, clamping range 16.5 to 23 mm
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ENDOWORLD®

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