ENDOWORLD®
CV 12 8.2 02/2019-E

The GORE System –

Stitchless spine surgery under local anesthesia

STORZ
KARL STORZ — ENDOSKOPE

The GORE **System**

Stitchless spine surgery under local anesthesia

Lumbar degenerative spine change is symptomatic. Pain originates at a non-healing posterior annular tear at the central annulus or postero-lateral annulus or at the level of the facet joint. This leads to back or leg pain. Pain may go through stages of chemical irritation and mechanical compression. Unrelieved pain due to failed natural resolution and associated neurological deficit will need intervention. The interventions may be in the form of injections at the pain generators to relieve inflammation or the structure causing the pain may be ablated, decompressed and irrigated.

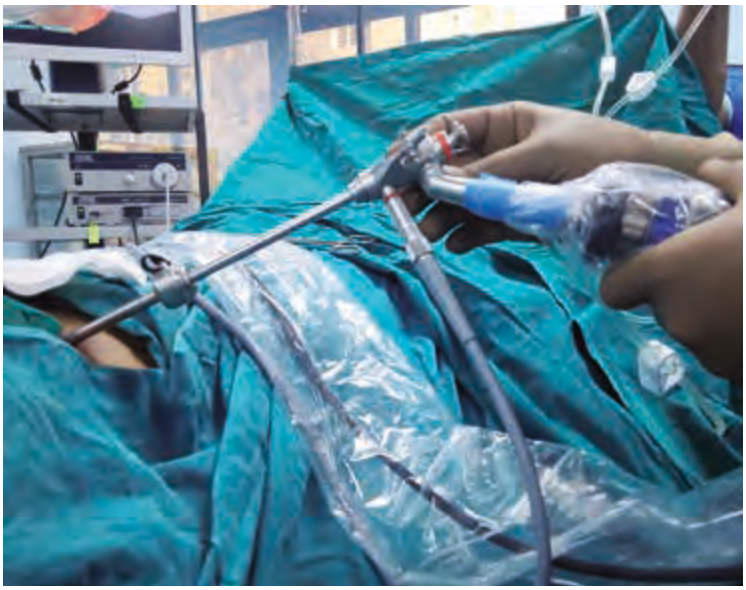
This pain centric philosophy gets translated to the herewith described instruments composed of basic access instruments, namely puncture needle, guide wire, dilation sleeve and operating sheath. The needle placement is the key to precision and effectiveness in surgery. Other instruments, mainly grasping forceps, help in grasping and removing affected tissue. If a target is not in line of sight, it is still accessible by using a 25 degree scope and the bendable hooks and curettes which are a unique part of the recommended set.

Since the majority of pain generators reside in the foramen or close to it, the pathology is accessed through the foramen.

The herewith described system covers all herniations that have migrated upwards and downwards and the central, paracentral, foraminal and extraforaminal locations from D12 L1 to L5/S1 levels. The facet joint nerve supply can also be accessed for denervation. Claudication by hypertrophied soft tissue can be treated by accessing the tip of the superior articular process.

The basic surgery is performed under local anesthesia and is stitchless.

Dr. Satishchandra GORE
Mission Spine PUNE, India
www.drgoreonline.com



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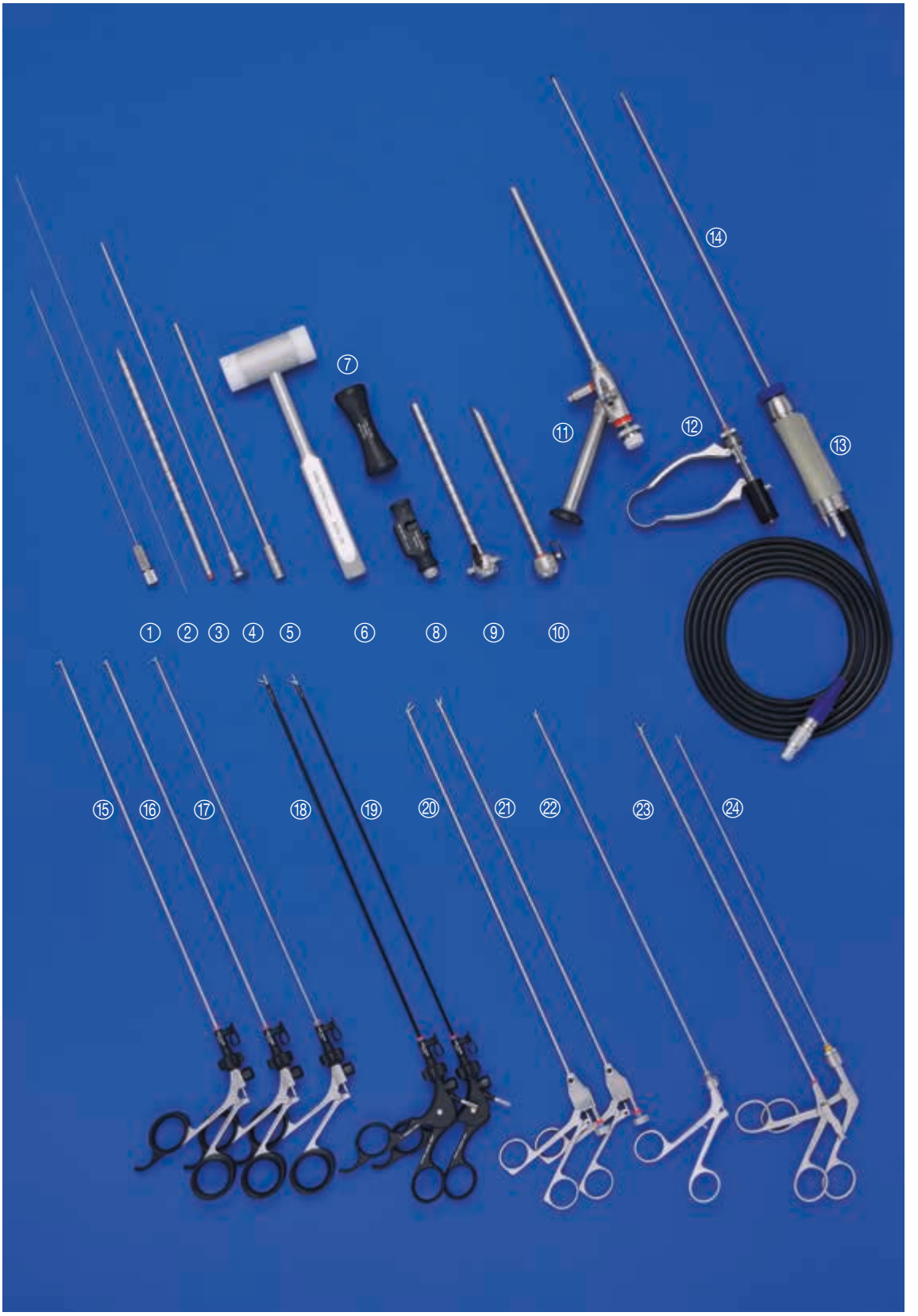
GORE **Recommended Set**



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Percutaneous Endoscopic Disc Surgery Under Local Anesthesia

GORE **Recommended Set**

①	28163 PLT	**Puncture Needle,** including stylet, diameter 1.2 mm, working length 25 cm, with 0.8 mm opening for guide wire
②	28163 GWT	**Guide Wire,** blunt on both sides, diameter 0.7 mm, working length 41 cm, package of 5
③	28163 FHI	**Dilation Sleeve,** outer diameter 6.5 mm, inner diameter 1.4 mm, length 22 cm, with two ports, for the interlaminar approach, color code: red
⑥	28163 CM	COTTLE **Metal Mallet,** with plastic replacement head, length 22.5 cm
⑦	28163 FEH	**Punch Sleeve,** for use with operating sheaths
⑧	28163 FKD	**Fixation Handle,** for adjustment of dilation sleeves with outer diameter 2.5-6.5 mm
⑨	28163 FSG	**Operating Sheath,** graduated, distal straight, with clamp mechanism for fixation, integrated irrigation connector, inner diameter 7.2 mm, outer diameter 7.9 mm, length 17 cm, for use with HOPKINS® Telescope 25° 28163 BFA, color code: red
⑩	28163 FWO	**Operating Sheath,** distal 45° oblique, integrated irrigation connector, inner diameter 6.8 mm, outer diameter 7.5 mm, length 17 cm, for use with HOPKINS® Telescope 25° 28163 BFA, color code: red
⑪	28163 BFA	**HOPKINS® Wide Angle Telescope 25°,** angled eyepiece, outer diameter 6.6 mm, working channel diameter 3.6 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red
	533 TVA	**Adaptor, autoclavable,** permits telescope changing under sterile conditions (not illustrated)
	495 NA	**Fiber Optic Light Cable,** with straight connector, diameter 3.5 mm, length 230 cm (not illustrated)
⑫	28163 FBC	**Bipolar Electrode,** angled, diameter 2.5 mm, working length 36 cm
	28762 KB	**Bipolar Coagulation Electrode,** diameter 1.7 mm, working length 30 cm (not illustrated)
⑬	**28**7120 50	**DRILLCUT-X® II Spine Handpiece,** for use with UNIDRIVE® S III NEURO
⑭	41301 FD	**Suction Burr,** with integrated irrigation, straight, cylindrical cutter head with lateral and distal protection, shaft diameter 3.5 mm, length 30 cm, sterile, for single use, package of 5
	41201 FD	**Suction Burr,** with integrated irrigation, straight, sterilizable, cylindrical cutter head with lateral and distal protection, shaft diameter 3.5 mm, length 30 cm (not illustrated)
	41301 D	**Diamond Burr,** with integrated irrigation, straight, diamond head, shaft diameter 3.5 mm, length 30 cm, sterile, for single use, package of 5 (not illustrated)
⑯	28163 FBG	**CLICKLINE Palpation Hook,** rotating, dismantling, not insulated, without connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, with distal ball, bendable to 90°, diameter 2.7 mm, length 36 cm
⑰	28163 FBH	**CLICKLINE Palpation Hook,** rotating, dismantling, not insulated, without connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, with distal ball, bendable to 90°, size 3.5 mm, length 36 cm
⑱	28163 FZI	**CLICKLINE Raven's Beak Forceps,** rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, single action jaws, diameter 3.5 mm, length 36 cm

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⑲	28163 FSI	**CLICKLINE** BLAKESLEY **Grasping Forceps,** rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, single action jaws, fenestrated, size 3 mm, length 36 cm
⑳	28163 FAS	**Grasping Forceps,** bendable, single action jaws, diameter 3.5 mm, working length 36 cm
㉑	28163 FAP	**Punch,** bendable, single action jaws, diameter 3.5 mm, working length 36 cm
㉒	28163 FBM	**Grasping Forceps,** double action jaws, diameter 2.7 mm, working length 36 cm
㉓	28163 FZ	**Grasping Forceps,** single action jaws, with 90° angle of view, diameter 3.5 mm, working length 36 cm
㉔	28163 SE	**TAKE-APART®** BLAKESLEY **Grasping Forceps,** diameter 2.3 mm, length 30 cm

Additional instruments for the removal of stenoses:

⑮	28163 FKA	**CLICKLINE Curette,** bendable to 90°, rotating, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm
	28163 FKB	**CLICKLINE Curette,** bendable to 90°, non-rotating, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm (not illustrated)
	28163 FKC	**CLICKLINE Curette,** bendable to 90°, lateral cutting right, rotating, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm (not illustrated)
	28163 FKF	**CLICKLINE Curette,** bendable to 90°, lateral cutting left, non-rotating, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm (not illustrated)
④	28163 FTM	**Trephine,** with pyramidal handle, inner diameter 1.6 mm, outer diameter 2.7 mm, working length 30 cm
⑤	28163 FTK	**Trephine,** with round handle, inner diameter 3.2 mm, outer diameter 4.2 mm, working length 22 cm

Recommended accessories for cleaning, sterilization and storage:

39501 B2	**Wire Tray for Cleaning, Sterilization and Storage** of two rigid endoscopes and one light cable
39502 Z	**Wire Tray for Cleaning, Sterilization and Storage of Instruments,** stackable, including hole plate walls and foldaway handles
39100 S	**Silicone Grid Insert "LARGE DIAMOND Grid",** blue, extra wide meshed, for the storage of instruments in standard wire trays, plastic and sterilization containers
39100 PS	**Fixation Pin,** including screw and washer, to screw instruments into position in wire trays, package of 12
39360 AS	**Silicone Tie-Downs,** package of 12

For further accessories for cleaning and sterilization, see the HYGIENE catalog

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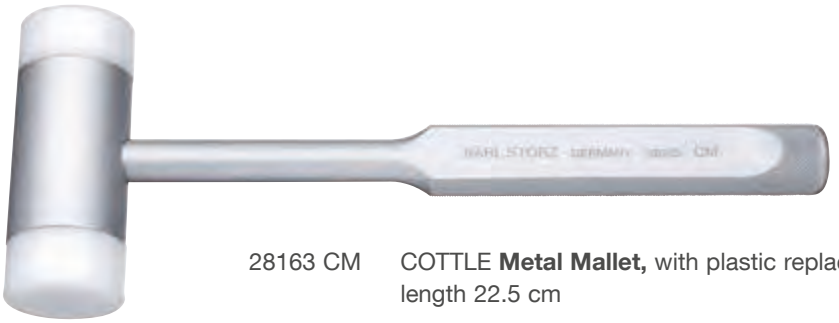
Access System

With the new Dilation Sleeve 28163 FHI there is no more sequential dilation; instead the dilation sleeve is introduced directly after the puncture needle and the guide wire. When designing the dilation sleeve (outer diameter 6.8 mm), extra thought was given to including two inlets (inner diameter 1.4 mm). This allows the injection of a local anesthetic or a contrast medium while still maintaining the access via the guide wire and the dilation sleeve. In addition, the second inlet can be used to change the access direction of the dilation sleeve without the need to reinsert the guide wire.

28163 PLT **Puncture Needle,** including stylet, diameter 1.2 mm, working length 25 cm, with 0.8 mm opening for guide wire

28163 GWT **Guide Wire,** blunt on both sides, diameter 0.7 mm, working length 41 cm, package of 5

28163 FHI **Dilation Sleeve,** outer diameter 6.5 mm, inner diameter 1.4 mm, length 22 cm, with two ports, color code: red



28163 CM COTTLE **Metal Mallet,** with plastic replacement head, length 22.5 cm

28163 FEH **Punch Sleeve**, for use with operating sheaths

28163 FKD **Fixation Handle,** for adjustment of dilation sleeves with outer diameter 2.5-6.5 mm

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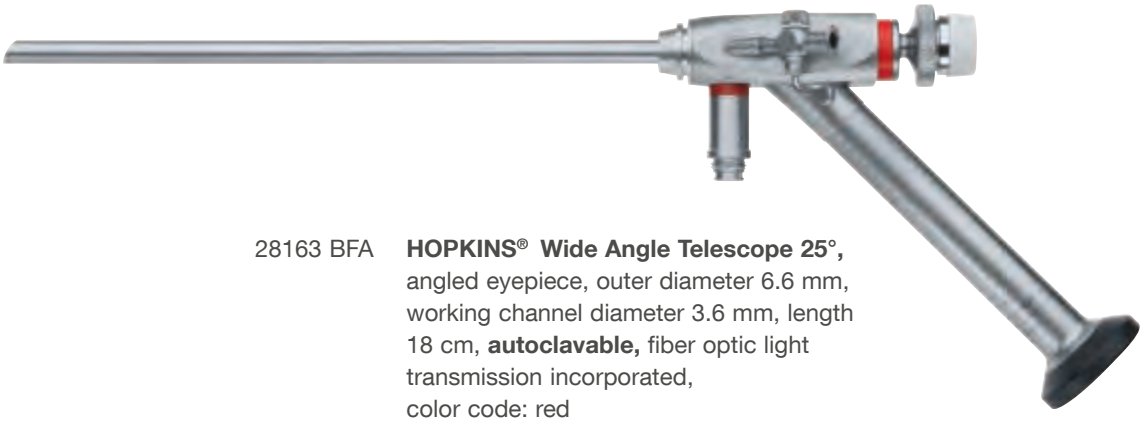
Operating Sheath

The operating sheath is completely advanced over the dilation sleeve.

28163 FWO **Operating Sheath,** distal 45° oblique, integrated irrigation connector, inner diameter 6.8 mm, outer diameter 7.5 mm, length 17 cm, for use with HOPKINS® Telescope 25° 28163 BFA, color code: red

28163 FSG **Operating Sheath,** graduated, distal straight, with clamp mechanism for fixation, integrated irrigation connector, inner diameter 7.2 mm, outer diameter 7.9 mm, length 17 cm, for use with HOPKINS® Telescope 25° 28163 BFA, color code: red

Telescope 28163 BFA



28163 BFA **HOPKINS® Wide Angle Telescope 25°,** angled eyepiece, outer diameter 6.6 mm, working channel diameter 3.6 mm, length 18 cm, **autoclavable,** fiber optic light transmission incorporated, color code: red

Article no. 28163 BFA includes the instrument Adaptor 28163 AA and Irrigation Adaptor 28163 FIA. The irrigation adaptor is required for connection to a washer.

533 TVA **Adaptor, autoclavable,** permits telescope changing under sterile conditions

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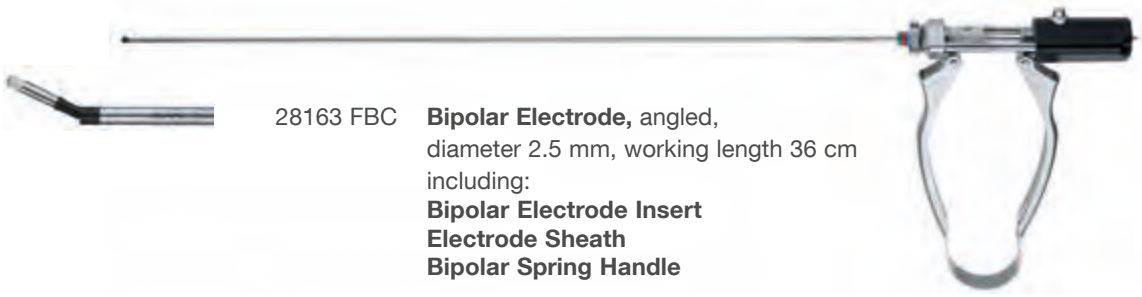
Angled Bipolar Electrodes

The distally angled bipolar HF electrode for use in the working channel is reusable and is available with a spring handle. The bipolar electrode allows the point coagulation of minor hemorrhages under endoscopic control. Furthermore, the distal angulation can be used to palpate and examine tissue.



28163 FBC **Bipolar Electrode,** angled, diameter 2.5 mm, working length 36 cm including:
Bipolar Electrode Insert
Electrode Sheath
Bipolar Spring Handle

28762 KB **Bipolar Coagulation Electrode,** diameter 1.7 mm, working length 30 cm

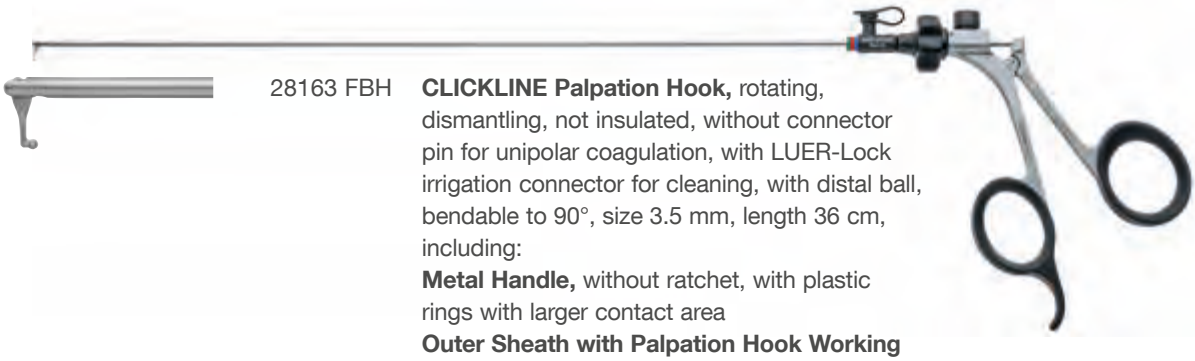
26176 LE **Bipolar High Frequency Cord,** length 300 cm

26176 LW **Bipolar High Frequency Cord,** length 300 cm, pin distance on unit side 22 mm

Available bipolar high frequency cords are selected in accordance with the generator used. Please refer to the KARL STORZ product catalogue for more detailed information.

Palpation Instrumentation

Palpation hooks were developed for the palpation and dissection of disc tissue and can be distally angled to 90°.



28163 FBH **CLICKLINE Palpation Hook,** rotating, dismantling, not insulated, without connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, with distal ball, bendable to 90°, size 3.5 mm, length 36 cm, including:
Metal Handle, without ratchet, with plastic rings with larger contact area
Outer Sheath with Palpation Hook Working Insert

NEW
28163 FBG **Same,** diameter 2.7 mm, length 36 cm

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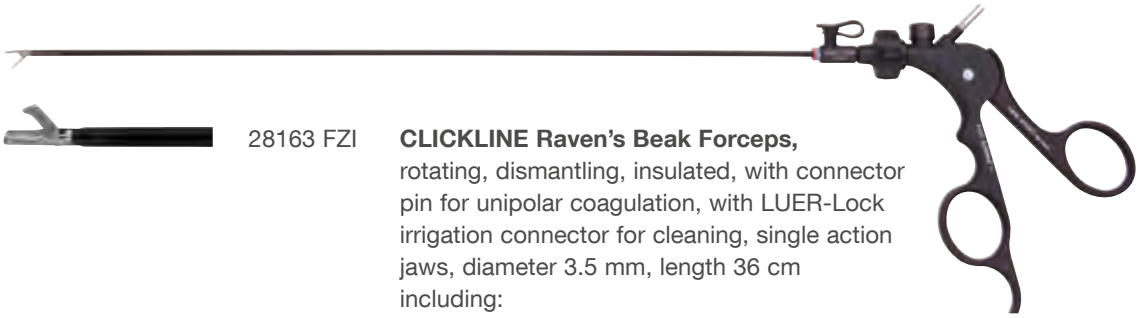
Grasping Forceps

The raven's beak forceps is used in the interlaminar approach to open the ligamentum flavum.

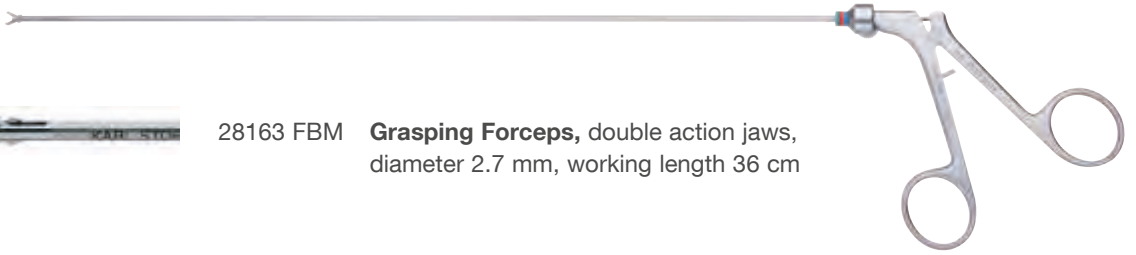


28163 FZI **CLICKLINE Raven's Beak Forceps,** rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, single action jaws, diameter 3.5 mm, length 36 cm including:
Plastic Handle, without ratchet
Forceps Insert, with raven's beak

28163 FSI **CLICKLINE** BLAKESLEY **Grasping Forceps,** rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock irrigation connector for cleaning, single action jaws, fenestrated, size 3 mm, length 36 cm including:
Plastic Handle, without ratchet
Outer Sheath, with forceps insert

The following grasping forceps can be used to grasp tissue fragments.

28163 FZ **Grasping Forceps,** single action jaws, with 90° angle of view, diameter 3.5 mm, working length 36 cm



28163 FBM **Grasping Forceps,** double action jaws, diameter 2.7 mm, working length 36 cm

28163 SE **TAKE-APART®** BLAKESLEY **Grasping Forceps,** diameter 2.3 mm, length 30 cm including:
Handle
Working Attachment

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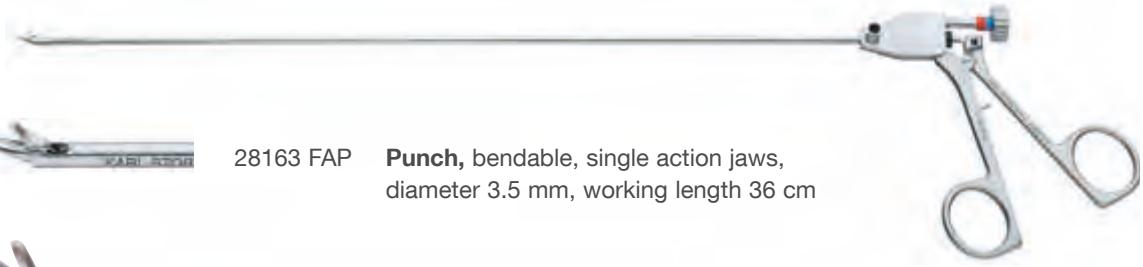
Bendable Instruments

The distal end can be angled by rotating the proximal wheel. The jaws can be closed by pressing down firmly on the handle ends. These return to the horizontal position so that the forceps can be withdrawn from the working channel.



28163 FAP **Punch,** bendable, single action jaws, diameter 3.5 mm, working length 36 cm

28163 FAS **Grasping Forceps,** bendable, single action jaws, diameter 3.5 mm, working length 36 cm

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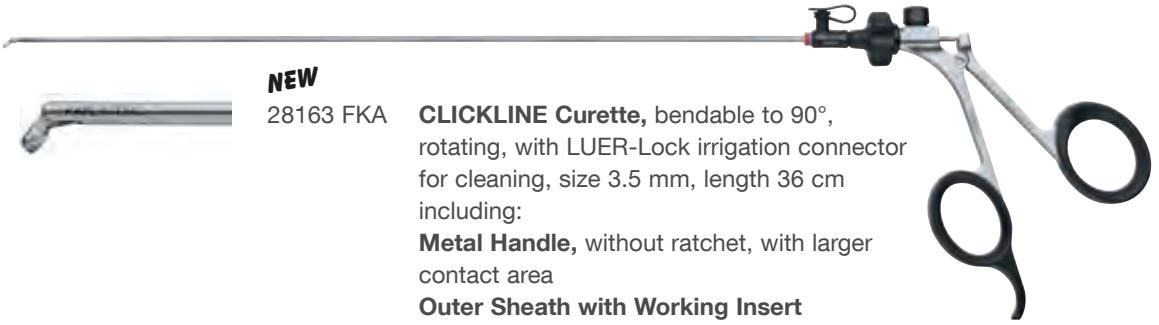
Additional Instruments for the Removal of Stenoses

Curettes

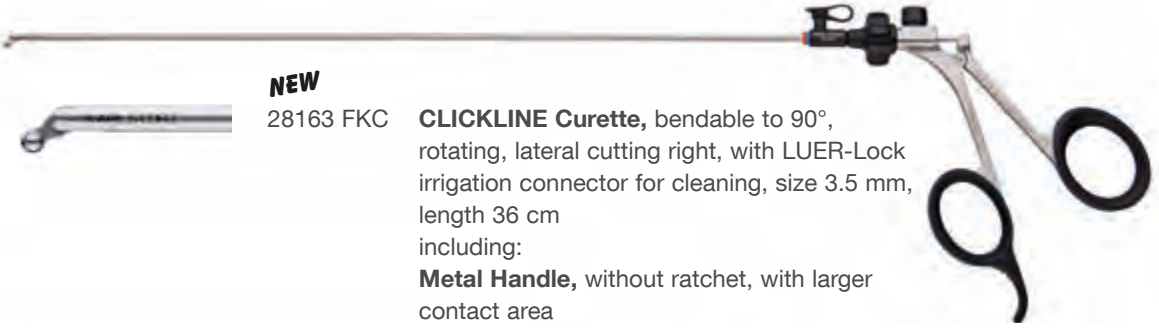


NEW

28163 FKA **CLICKLINE Curette,** bendable to 90°, rotating, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm including:
Metal Handle, without ratchet, with larger contact area
Outer Sheath with Working Insert

NEW

28163 FKB **CLICKLINE Curette,** bendable to 90°, non-rotating, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm including:
Metal Handle, without ratchet, with 4 locking positions
Outer Sheath with Working Insert



NEW

28163 FKC **CLICKLINE Curette,** bendable to 90°, rotating, lateral cutting right, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm including:
Metal Handle, without ratchet, with larger contact area
Outer Sheath with Working Insert

NEW

28163 FKF **CLICKLINE Curette,** bendable to 90°, rotating, lateral cutting left, with LUER-Lock irrigation connector for cleaning, size 3.5 mm, length 36 cm including:
Metal Handle, without ratchet, with larger contact area
Outer Sheath with Working Insert

Trephines

28163 FTM **Trephine,** with pyramidal handle, inner diameter 1.6 mm, outer diameter 2.7 mm, working length 30 cm

28163 FTK **Trephine,** with round handle, inner diameter 3.2 mm, outer diameter 4.2 mm, working length 22 cm

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UNIDRIVE® S III NEURO SCB

407017 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
including:
Mains Cord
Irrigator Rod
Two-Pedal Footswitch, two-stage, with proportional function
SCB Connecting Cable, length 100 cm
Single Use Tubing Set*, sterile, package of 3

Specifications:			
Touch screen	6.4"/300 cd/m²	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.

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DRILLCUT-X® II Spine Handpiece

287120 50 **DRILLCUT-X® II Spine Handpiece,** for use with UNIDRIVE® S III NEURO (12,000 rpm)

Suction and Diamond Burrs

The following burrs are available for use with HOPKINS® Telescope 25° 28163 BFA and the DRILLCUT-X® II spine handpiece:

41201 FD **Suction Burr,** with integrated irrigation, straight, sterilizable, cylindrical cutter head with lateral and distal protection, shaft diameter 3.5 mm, length 30 cm, for use with DRILLCUT-X® II Spine Handpiece **28**7120 50

41301 FD **Suction Burr,** with integrated irrigation, straight, cylindrical cutter, head with lateral and distal protection, shaft diameter 3.5 mm, length 30 cm, sterile, for single use, package of 5, for use with DRILLCUT-X® II Spine Handpiece **28**7120 50 STERILE

41301 D **Diamond Burr,** with integrated irrigation, straight, diamond head, shaft diameter 3.5 mm, length 30 cm, sterile, for single use, package of 5, for use with DRILLCUT-X® II Spine Handpiece **28**7120 50 STERILE

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ARTHROPUMP® Power

The perfect synergy between the ARTHROPUMP® Power and the GORE system provides the continuous flow required to perform the surgical technique and a successful procedure.

283407 02-1 **ARTHROPUMP® Power, Set, Spine**
power supply 100-240 VAC, 50/60 Hz,
including:
SCB Connecting Cable, length 100 cm
Tubing Set Irrigation, sterile, for single use, package of 3
Tubing Set Suction, sterile, for single use, package of 3

Specifications (spine application):			
Pressure-regulated	20-50 mmHg	Dimensions w x h x d	447 x 155 x 313 mm
Continuous flow	10-200 ml/min	Weight	8.8 kg
Power supply	100-240 VAC, 50/60 Hz	Certified to	IEC 601-1, CE acc. to MDD

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ENDOMAT® SELECT

ENDOMAT® SELECT is an easy-to-handle roller pump for the irrigation or suction of fluids during endoscopic interventions on the spine.

UP 210	**ENDOMAT® SELECT SCB,** suction and irrigation pump, incl. mains cord, power supply 100-240 VAC, 50/60 Hz

Software and Accessories

UP 607	**Spine,** software, license, allows selection of the procedures “LUMBAR” and “THORACAL”, for use with ENDOMAT® SELECT UP 210

031523-03*	**Tubing Set,** irrigation, pressure-regulated, sterile, for single use, package of 10, for use with KARL STORZ HAMOU® ENDOMAT® **26**3311 20 and ENDOMAT® SELECT UP 210	STERILE

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Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.

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

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