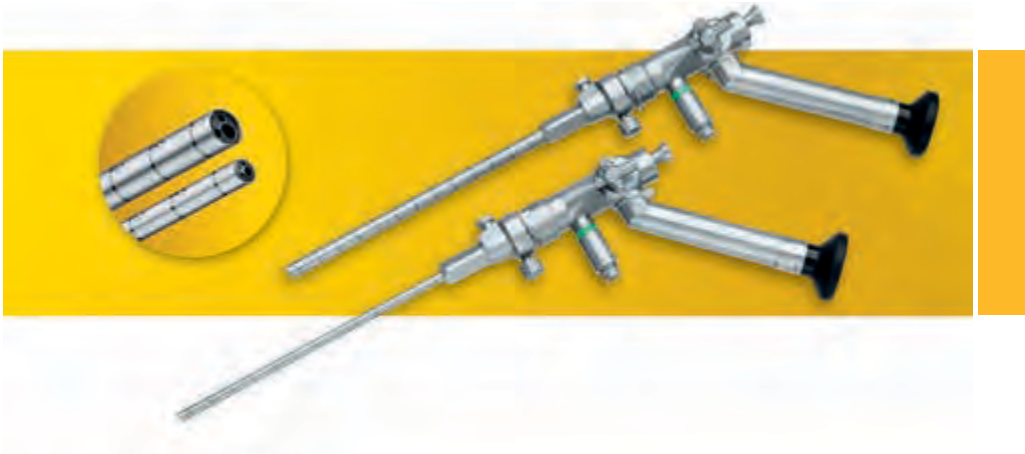


The LOTTA® System for Intracranial Neuroendoscopy

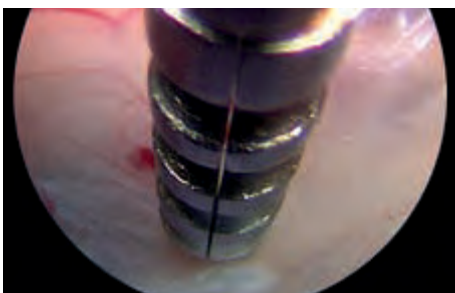


The SCHROEDER LOTTA® System for Intracranial Neuroendoscopy

The LOTTA® system has been designed to perform the full range of endoscopic intracranial interventions in adults and children. The cornerstone of the system is based on the two ventriculoscopes Little LOTTA® and LOTTA®. These enable the treatment of all forms of obstructive hydrocephalus, intraventricular tumors and cysts as well as arachnoid and intraparenchymal cysts. An all-round solution, the LOTTA® system offers a free choice between the Little LOTTA® with its smaller diameter, more convenient handling and use in a wide range of applications such as ventriculostomies, septostomies, tumor biopsies and cyst fenestrations and the LOTTA® with its larger dimensions, which is not only suitable for the therapies mentioned above but is also particularly effective for the removal of colloid cysts, tumor resections, stent implantations as well as aqueductoplasties with subsequent stenting.

The somewhat larger diameter of the LOTTA® ventriculoscope allows the surgeon to perform bimanual dissection using two instruments. These can be used simultaneously in separate channels to enable more technically sophisticated procedures. Furthermore, the resection of larger tissue samples is possible, which benefits therapies such as tumor resection or cyst removal.

All intracranial procedures can thus be carried out. However, there are situations where a 30° viewing angle proves useful. A 30° viewing angle directed on the working channel allows earlier visualization of instruments. Therefore, the use of the LOTTA® 30° in narrow structures is beneficial. In addition, neighboring structures can easily be viewed during resections of cysts or tumors, for example, during the treatment of colloid cyst of the attachment point at the tela choroidea in the roof of the 3rd ventricle.



LOTTA® 30°



LOTTA® 6°



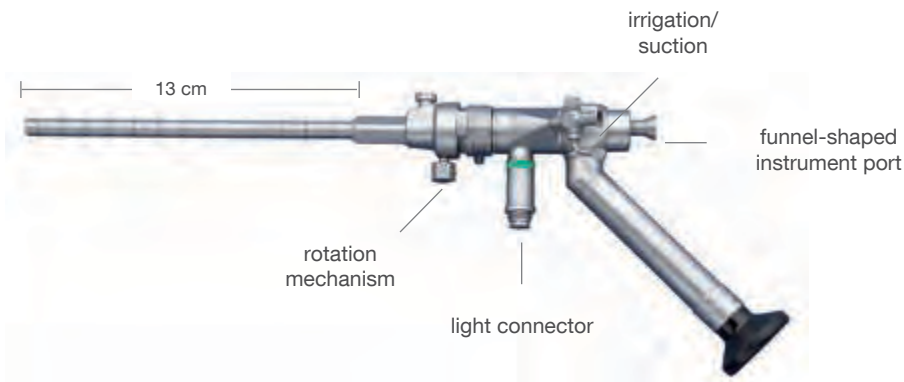
LOTTA® 30°



LOTTA® 6°

The LOTTA® 30° is particularly recommended for the resection of colloid cysts and intraventricular tumors. It can also be used for all other endoscopic procedures such as ventriculostomies, septostomies, tumor biopsies, cyst fenestrations and stent placements.

With a similar, yet more slender design, the Little LOTTA®, with the same viewing angle of 6° as the LOTTA®, proves to be particularly valuable for treating patients with a narrow foramen of Monro. In ventriculostomies in both children and adults, the prepontine cistern can be reached directly through the ventriculostomas and, if necessary, the arachnoid membranes can be transected to establish the cerebrospinal fluid (CSF) flow. Although too slender for the simultaneous use of two instruments, the Little LOTTA® offers the same range of functions as its two larger counterparts.



Viewing Angle		
LOTTA® 	LOTTA® 30° 	Little LOTTA®
Cross-section of the Ventrilloscope		
LOTTA® and LOTTA® 30°		Little LOTTA®

The ventriculoscopes are equipped with a HOPKINS® wide-angle straight forward telescope with a high light-transmitting capacity which delivers unsurpassed image quality and safe orientation, even in protein-rich or bloody CSF fluid. The central working channel is flanked on both sides with two side channels with a smaller diameter. One is used for irrigation/suction and the other for the use of a second instrument.

The irrigation function ensures that continuous cleaning is maintained in the area in front of the endoscope, even when visibility is hindered (cloudy CSF in the case of ventriculitis and/or ventricle bleeding). The drainage channel always remains open to prevent critical intracranial pressure increase caused by excessive irrigation. To facilitate insertion of the instruments into the working channel, a funnel-shaped enlargement has been integrated at the entrance to the working channel. Thanks to this stable construction, both ventriculoscopes are less susceptible to damage during cleaning, sterilization and storage.



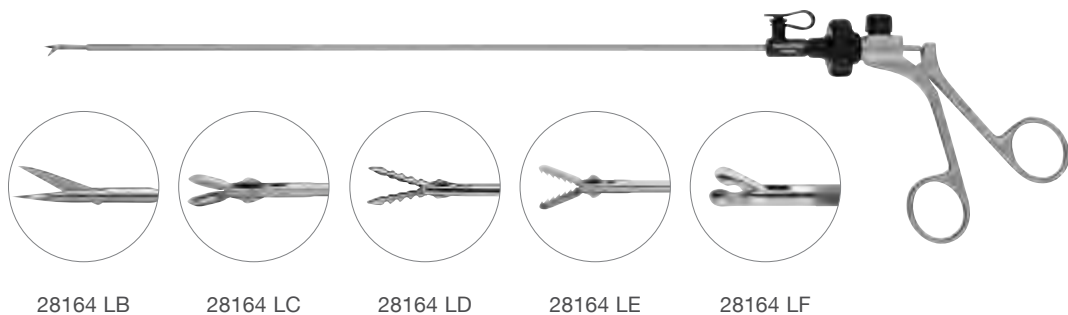
All ventriculoscopes have operating sheaths featuring rotational stability so that they can be fixed to the holding arm to prevent the telescope from sliding down and/or undesired rotational movements where the angle ratios are unfavorable.

However, the ventriculoscopes can still be rotated inside the sheath without having to alter the position on the holding arm – a considerable advantage for bimanual dissection. Furthermore, the operating sheaths can be taken apart for cleaning and sterilization. The LOTTA® system can, of course, be used “freehand”.

An obturator is inserted and locked into the working sheath before introduction. With its atraumatic distal tip, the obturator is required to facilitate introduction of the sheath into the ventricle or cysts. An optical obturator can also be used for this purpose, if necessary. A very slender HOPKINS® 0° telescope is introduced through the obturator in order to position the operating sheath under visual control.



The LOTTA® system is equipped with very stable instruments that can be used through the central working channel. A further feature is the marking on the upper part of the sheath which shows when the distal tip emerges from the working channel. This minimizes the danger of unintentional and uncontrolled movements during instrument introduction. Furthermore, the jaws can be aligned by rotating the adjustment wheel, without having to rotate the entire instrument.



The instrument section of this brochure offers you a range of different sets containing all the instruments required for performing the most common endoscopic procedures such as, for example, ventriculostomies, aqueductoplasties, septostomies, foraminoplasties, tumor resections and cyst fenestrations. A full set configuration includes additional diagnostic telescopes with different angles of view that ensure better orientation in the ventricular system. Customized sets can, of course, be arranged to suit individual requirements.

Prof. Dr. med. Henry W. S. SCHROEDER
 Department of Neurosurgery
 Universitätsmedizin Greifswald
 Germany

Documentation of Findings LOTTA® Neuroendoscope

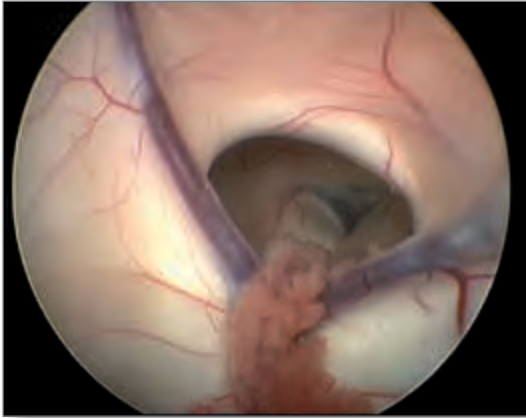


Fig. 7: Foramen of Monro



Fig. 8: Foramen of Monro with suprasellar arachnoid cyst



Fig. 9: Tumor in foramen of Monro

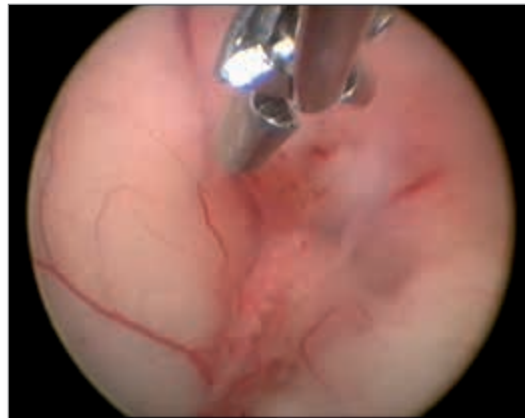


Fig. 10: Biopsy of a tumor in foramen of Monro



Fig. 11: Bimanual dissection by cutting into the membrane of a suprasellar arachnoid cyst with forceps and scissors

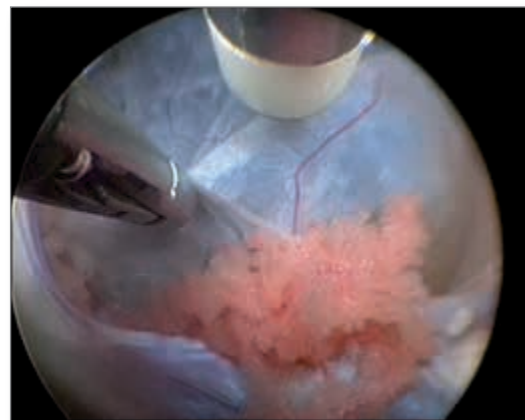


Fig. 12: Bimanual dissection using forceps and bipolar electrode



Fig. 13: Floor of the third ventricle



Fig. 14: Choroid plexus in the lateral ventricle



Fig. 15: Ventriculostomy with balloon catheter

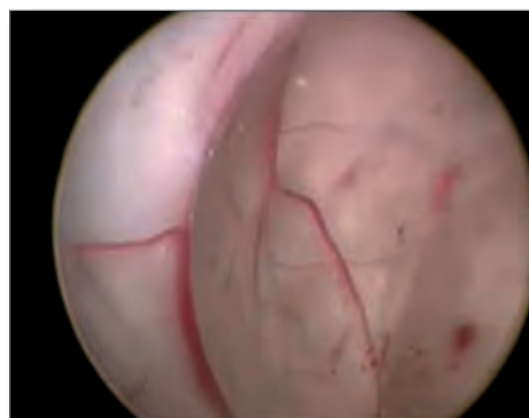


Fig. 16: Pellucid septum

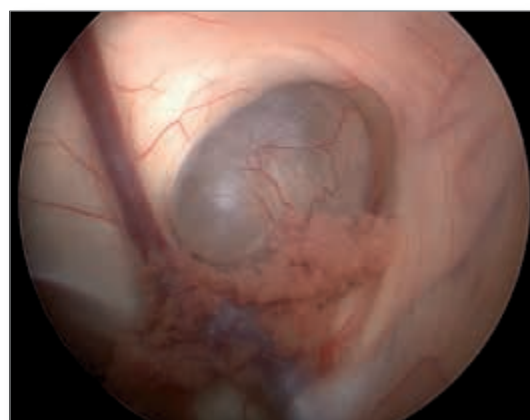


Fig. 17: Colloid cyst

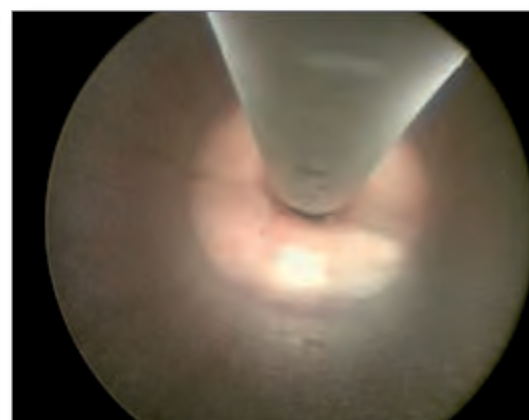
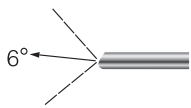
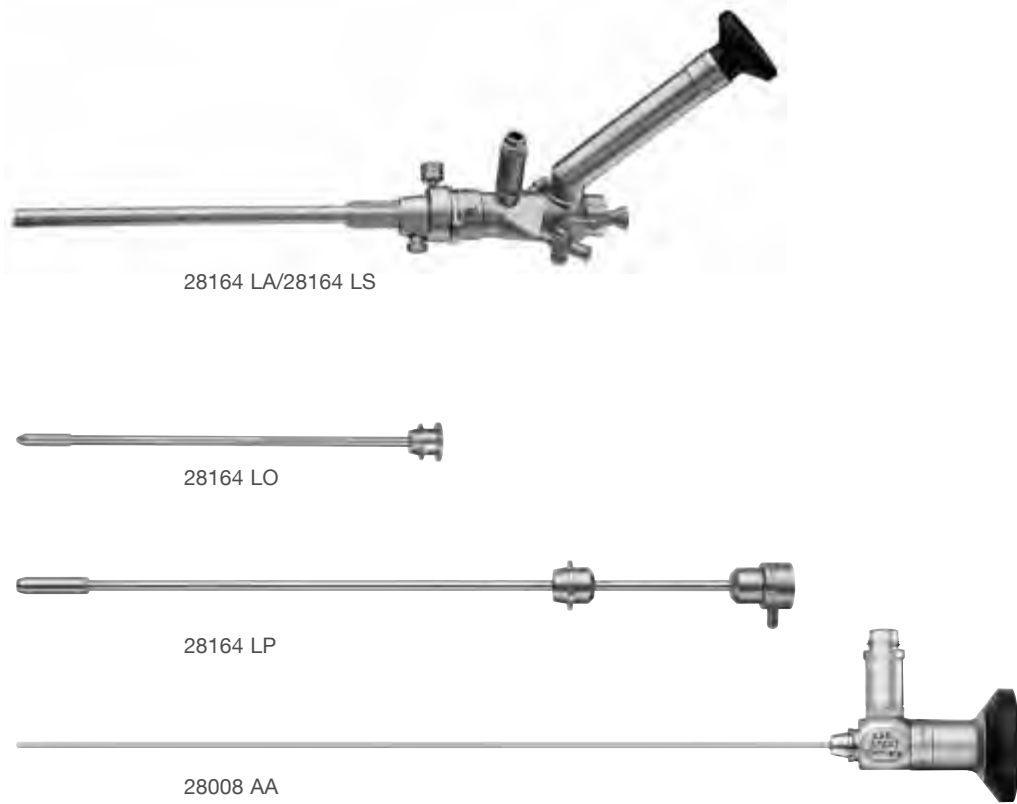


Fig. 18: Stent in the aqueduct

LOTTA® Neuroendoscope

SCHROEDER Recommended Set

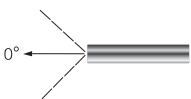


28164 LA **LOTTA® Ventriculoscope with HOPKINS® Wide Angle Straight Forward Telescope 6°**, angled eyepiece, outer diameter 6.1 mm, length 18 cm, working channel diameter 2.9 mm, irrigation/suction channel diameter 1.6, **autoclavable**, fiber optic light transmission incorporated, color code: green

28164 LS **Operating Sheath**, graduated, rotating, outer diameter 6.8 mm, working length 13 cm, for use with LOTTA® Ventriculoscope 28164 LA

28164 LO **Obturator**, for use with Operating Sheaths 28164 LS and 28164 LSB

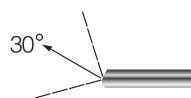
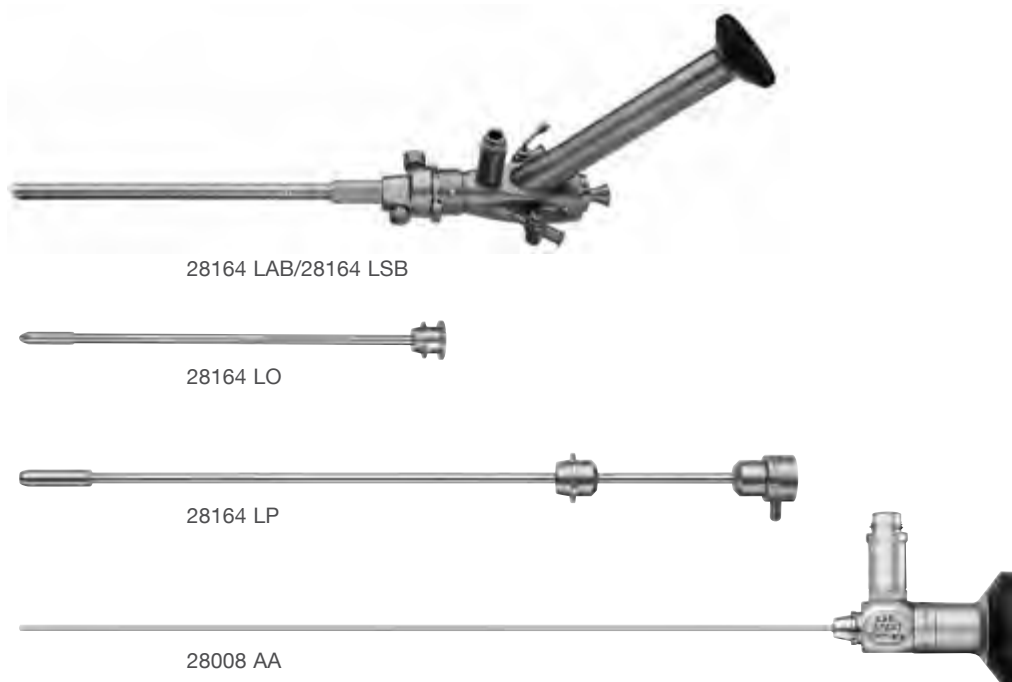
28164 LP **Optical Obturator**, for positioning Operating Sheaths 28164 LS and 28164 LSB under visual control, for use with HOPKINS® Telescope 28008 AA



28008 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2 mm, length 26 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

LOTTA® Neuroendoscope 30°

SCHROEDER Recommended Set

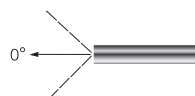


28164 LAB* **LOTTA® Ventriculoscope, HOPKINS® wide angle telescope 30°**, angled eyepiece, outer diameter 6.1 mm, length 18 cm, working channel diameter 2.9 mm, irrigation/suction channel diameter 1.6 mm, **autoclavable**, fiber optic light transmission incorporated, color code: red

28164 LSB **Operating Sheath**, graduated, rotating, outer diameter 6.8 mm, working length 13 cm, for use with LOTTA® Ventriculoscope 30° 28164 LAB

28164 LO **Obturator**, for use with Operating Sheaths 28164 LS and 28164 LSB

28164 LP **Optical Obturator**, for positioning Operating Sheaths 28164 LS and 28164 LSB under visual control, for use with HOPKINS® Telescope 28008 AA



28008 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2 mm, length 26 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

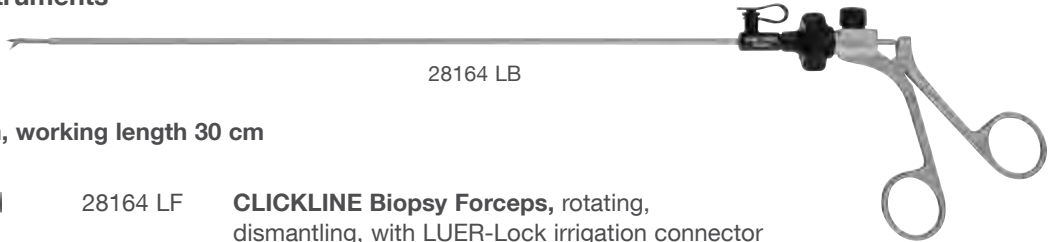
* Currently not available in CE markets

Neuroendoscope Operating Instruments

SCHROEDER Recommended Set

For use with LOTTA® Ventriculoscope 28164 LA/28164 LAB and Operating Sheath 28164 LS/28164 LSB

CLICKLINE Instruments



28164 LB

Diameter 2.7 mm, working length 30 cm



28164 LF

CLICKLINE Biopsy Forceps, rotating, dismantling, with LUER-Lock irrigation connector for cleaning, single action jaws, diameter 2.7 mm, working length 30 cm including:
Metal Handle, without ratchet
Outer Sheath, with forceps insert

Diameter 2 mm, working length 30 cm



28164 LB

CLICKLINE Scissors, pointed, rotating, dismantling, with LUER-Lock irrigation connector for cleaning, single action jaws, diameter 2 mm, working length 30 cm



28164 LC

CLICKLINE Biopsy Forceps, rotating, dismantling, with LUER-Lock irrigation connector for cleaning, double action jaws, diameter 2 mm, working length 30 cm



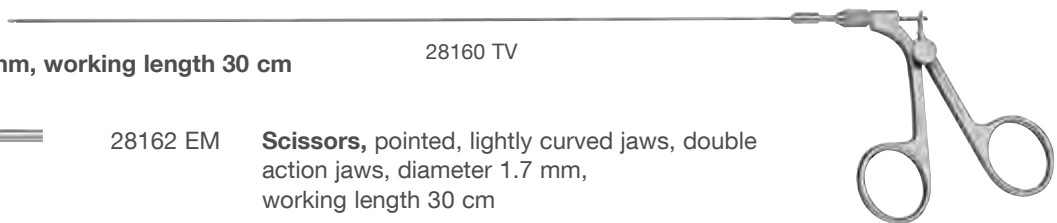
28164 LD

CLICKLINE Ventriculostomy Forceps, rotating, dismantling, with LUER-Lock irrigation connector for cleaning, diameter 2 mm, working length 30 cm



28164 LE

CLICKLINE Grasping Forceps, rotating, dismantling, with LUER-Lock irrigation connector for cleaning, double action jaws, diameter 2 mm, working length 30 cm



28160 TV

Diameter 1.7 mm, working length 30 cm



28162 EM

Scissors, pointed, lightly curved jaws, double action jaws, diameter 1.7 mm, working length 30 cm

Diameter 1.3 mm, working length 30 cm



28162 FP

Scissors, pointed, single action jaws, diameter 1.3 mm, working length 30 cm

Diameter 1 mm, working length 30 cm



28160 TV

Forceps, for ventriculostomy, flexible, double action jaws, diameter 1 mm, working length 30 cm



28160 ZJ

Biopsy Forceps, flexible, double action jaws, diameter 1 mm, working length 30 cm

Neuroendoscope Operating Instruments

SCHROEDER Recommended Set

For use with LOTTA® Ventriculoscope 28164 LA/28164 LAB and
Operating Sheath 28164 LS/28164 LSB



Outer diameter 2.4 mm, working length 30 cm



28164 BDV



28164 BDV **TAKE-APART® Bipolar Forceps**,
long, flat jaws, outer diameter 2.4 mm,
including
Bipolar Ring Handle
Outer Sheath
Bipolar Insert, for single use, package of 5



28164 LG



28164 LG **Guillotine Knife**, outer diameter 2.7 mm,
working length 30 cm,
including:
Handle
Guillotine Knife Insert



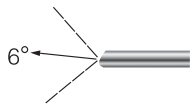
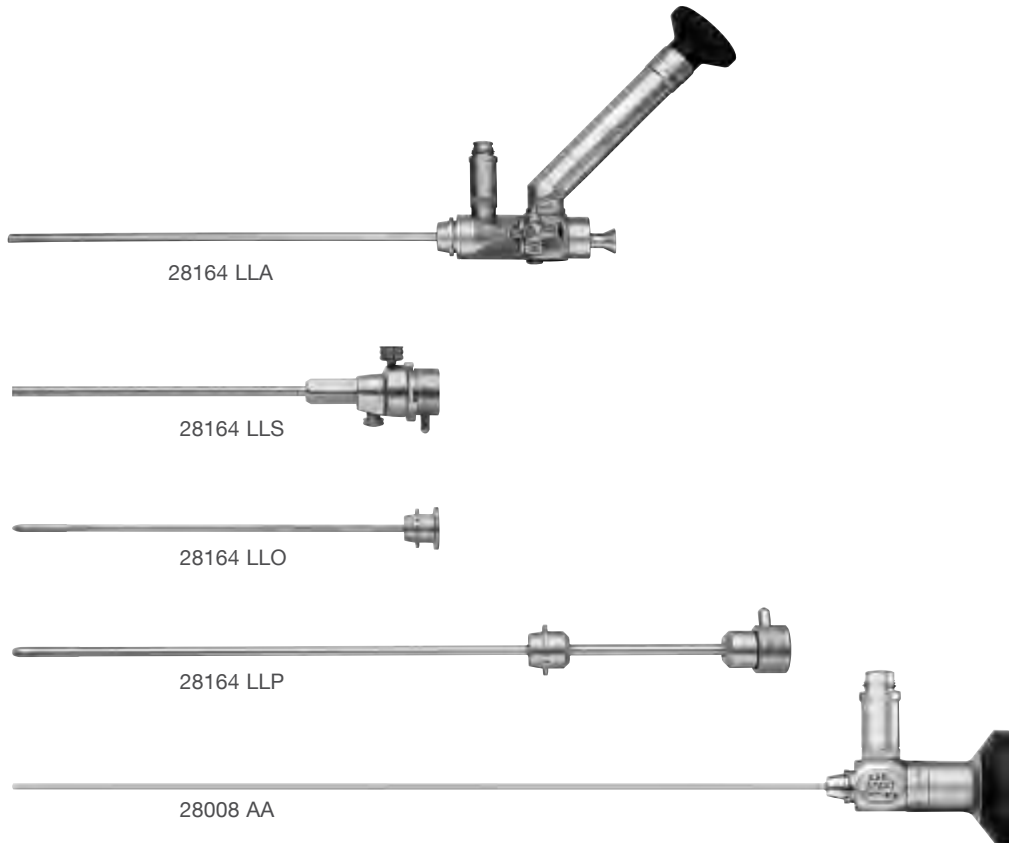
533 TVA **Adaptor, autoclavable**, permits telescope changing
under sterile conditions



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

Little LOTTA® Neuroendoscope

SCHROEDER Recommended Set



28164 LLA

Little LOTTA® Ventriculoscope, HOPKINS® Wide Angle Straight Forward Telescope 6°, small, with angled eyepiece, outer diameter 3.6 mm, length 18 cm, working channel diameter 1.6 mm, with suction and irrigation channel diameter 0.8 mm, **autoclavable**, with irrigation adaptor, fiber optic light transmission incorporated, color code: green

28164 LLS

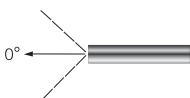
Operating Sheath, small, outer diameter 4.5 mm, working length 13.3 cm, for use with SCHROEDER Ventriculoscope 28164 LLA

28164 LLO

Obturator, for use with operating sheath 28164 LLS

28164 LLP

Optical Obturator, for use with operating sheath 28164 LLS and HOPKINS® Telescope 28008 AA



28008 AA

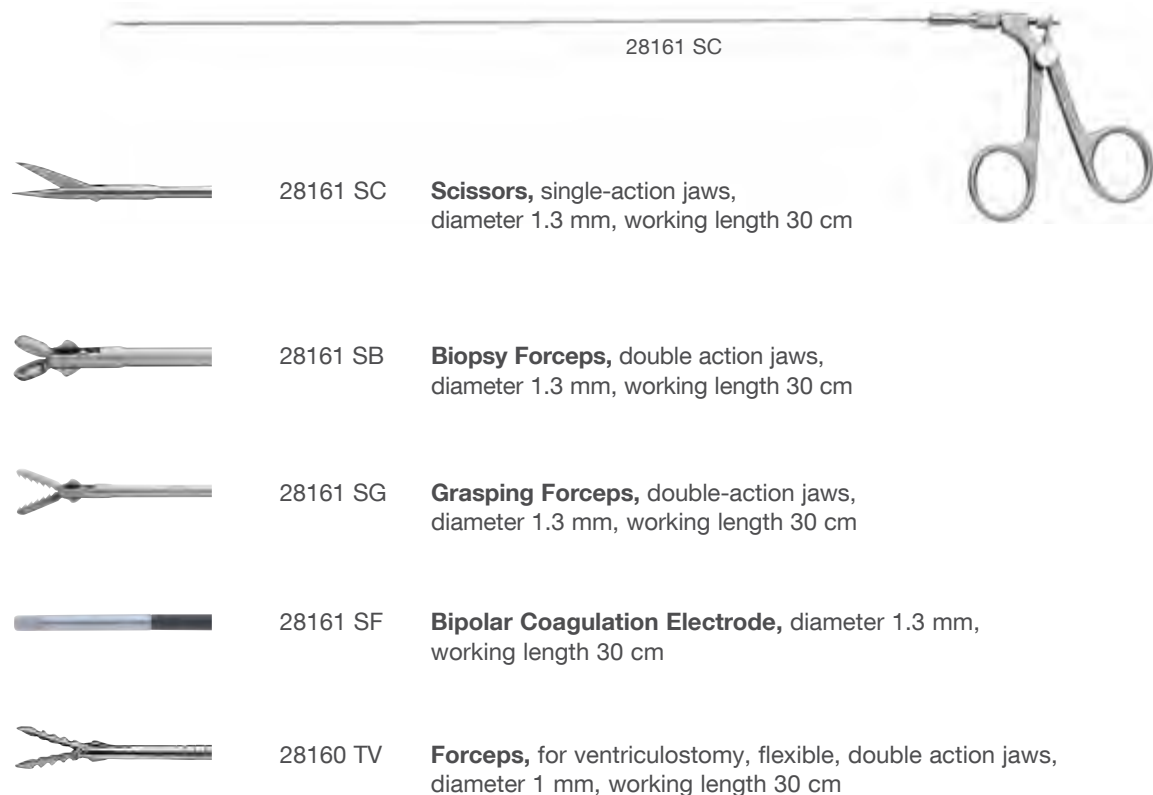
HOPKINS® Straight Forward Telescope 0°, diameter 2 mm, length 26 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

Neuroendoscope Operating Instruments

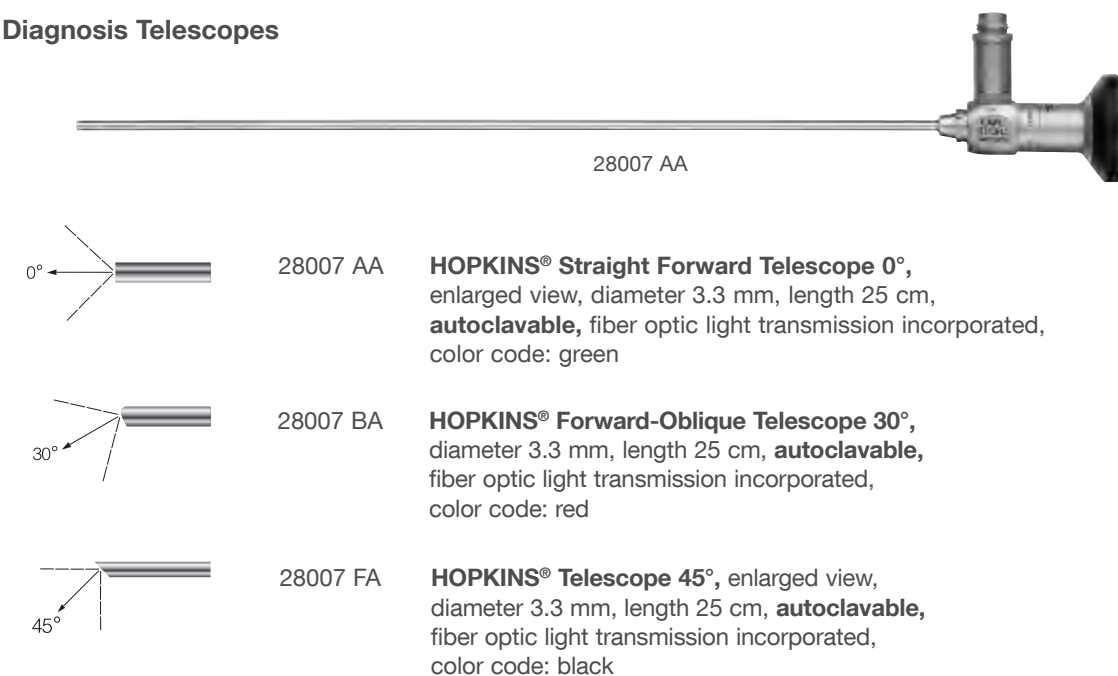
SCHROEDER Recommended Set

For use with LOTTA® Ventriculoscope 28164 LLA and Operating Sheath 28164 LLS

CLICKLINE Instruments



Diagnosis Telescopes




POINT SETTER – Pneumatic Holding System



- 28172 WKS **POINT SETTER**, pneumatic holding arm, set including:
POINT SETTER Arm
OR Table Adaptor
KSLOCK Adaptor, for KARL STORZ clamping jaws
KARL STORZ Clamping Jaw, large
KARL STORZ Clamping Jaw, small
KARL STORZ Clamping Jaw, for fiberscopes
Pressure Regulator, 7 bar
Cover*, elasticated, 42 x 164 cm, package of 20

Note: Compressed air tubing is required to operate the POINT SETTER arm. Please select the appropriate tubing and add it to your order.

Compressed air tubing and accessories for the POINT SETTER:

- 28172 WA **Connecting Tube**, for POINT SETTER, Dräger, max. pressure 8 bar/115 psi, length 600 cm
- 28172 WB **Connecting Tube**, for POINT SETTER, Dräger air motor, max. pressure 8 bar/115 psi, length 600 cm
- 28172 WC **Connecting Tube**, for POINT SETTER, compressor, max. pressure 8 bar/115 psi, length 600 cm
- 28172 WN **Connecting Tube**, for POINT SETTER, Schrader, max. pressure 8 bar/115 psi, length 600 cm
- 28172 WO **Connecting Tube**, for POINT SETTER, with open end, max. pressure 8 bar/115 psi, length 600 cm
- 28272 CN **Clamping Cylinder**, folding, for flexible mounting of 10 mm telescopes to telescope sheath, **autoclavable**. The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28272 UGN and 28272 UGK and POINT SETTER universal adaptor 10-15 mm
- 041150-20* **Cover**, elasticated, 42 x 164 cm, sterile, for single use, package of 20, for use with KARL STORZ holding arms STERILE 
- 041150-80* **Same**, package of 80



Mechanical Holding System



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



28272 RKA **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, straight, with one central clamp for all five joint functions, height 30 cm, swivel range 37 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

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

UNIDRIVE® S III NEURO



- 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
SCB Connecting Cable, length 100 cm
Single Use Tubing Set*, sterile, package of 3

High-Speed Mikro-Motor

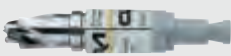



High-Speed Micro-Motor

Perforator



- 252640 **Perforator Handpiece**, max. speed 1200 rpm, without perforator blade, Hudson connector, for use with High-Speed Micro-Motor 20712033

	Disposable Cranial Perforator, with Hudson End, sterile for use with Perforator Handpiece 252640		STERILE 
size	14/11 mm		11/7 mm
	252641		252642



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

Craniotome



252645

252646 **Pediatric Dura Protector,**
for use with Craniotome Handpiece 252645



252646

Duraschutz, pädiatrisch, zur Verwendung
mit Kraniotom-Handstück 252645

The medium dura protector is automatically delivered with the craniotome handpiece.





252647

Medium Dura Protector,
for use with Craniotome Handpiece 252645



252648

Large Dura Protector,
for use with Craniotome Handpiece 252645

	High-Speed Craniotome Burrs, 60,000 rpm, sterile, STERILE 	
	for single use, package of 5	
pediatric	medium	long
360000 S	360000 M	360000 L

High-Speed Handpieces – 100,000 rpm

252680



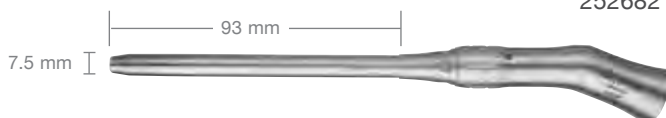
High-Speed Handpiece,
short, angled, 100,000 rpm,
for use with High-Speed
Micro-Motor **20 7120 33**

252681



High-Speed Handpiece,
medium, angled, 100,000 rpm,
for use with High-Speed
Micro-Motor **20 7120 33**








252682



High-Speed Handpiece,
long, angled, 100,000 rpm,
for use with High-Speed
Micro-Motor **20 7120 33**

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

Burrs for High-Speed Handpieces

	STERILE 	short: 252680	medium: 252681	long: 252682
Standard Burrs				
1.0 mm	350110 S	350110 M		
2.0 mm	350120 S	350120 M		350120 L
3.0 mm	350130 S	350130 M		350130 L
4.0 mm	350140 S	350140 M		350140 L
5.0 mm	350150 S	350150 M		350150 L
6.0 mm	350160 S	350160 M		350160 L
7.0 mm	350170 S	350170 M		350170 L
Diamond Burrs				
0.6 mm				
1.0 mm	350210 S	350210 M		
1.5 mm				
2.0 mm	350220 S	350220 M		350220 L
3.0 mm	350230 S	350230 M		350230 L
4.0 mm	350240 S	350240 M		350240 L
5.0 mm	350250 S	350250 M		350250 L
6.0 mm	350260 S	350260 M		350260 L
7.0 mm	350270 S	350270 M		350270 L
Diamond Burrs, coarse				
2.0 mm				
3.0 mm	350330 S	350330 M		350330 L
4.0 mm	350340 S	350340 M		350340 L
5.0 mm	350350 S	350350 M		350350 L
6.0 mm	350360 S	350360 M		350360 L
7.0 mm	350370 S	350370 M		350370 L
Acorn				
7.5 mm	350675 S	350675 M		
9.0 mm	350690 S	350690 M		
Barrel Burrs				
6.0 mm	350960 S	350960 M		
9.1 mm	350991 S	350991 M		
NEURO Fluted Burrs				
1.8 mm	350718 S	350718 M		350718 L
3.0 mm	350730 S	350730 M		350730 L

Accessories

280053 **Universal Spray**, 6x 500 ml bottles – HAZARDOUS GOODS – UN 1950 including:
Spray Nozzle

031131-10* **Tubing Set**, for irrigation, for single use, sterile, package of 10

STERILE 



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

Wire Trays for Cleaning, Sterilization and Storage

For ventriculoscopes



39501 XP

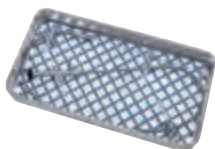
Wire Tray for Cleaning, Sterilization and Storage, including cleaning adaptor for washer-disinfector, with lid, spare parts basket 39501 XS and silicone telescope holders, external dimensions (w x d x h): 460 x 150 x 80 mm, for instruments with up to 27 cm working length



39501 XRV

Multiport Bridge

For instruments



39502 Z

39502 Z

Wire Tray, for cleaning, sterilization and storage of instruments, stackable, including hole plate walls and foldaway handles, external dimensions (w x d x h): 480 x 250 x 66 mm

39502 L

Lid, for use with 480 x 250 mm wire tray

39100 S

Silicone Grid Insert LARGE DIAMOND GRID, blue, extra wide meshed, external dimensions (w x d): 470 x 240 mm

39100 PS

Fixation Pin, including screw and washer, to screw instruments into position in wire trays, height 38 mm, package of 12, for use with Silicone Tie-Downs 39360 AS

39360 AS

Silicone Tie-Downs, package of 12, for use with Fixation Pins 39100 PS and 39360 AP

STORZ
KARL STORZ—ENDOSKOPE

THE DIAMOND STANDARD

KARL STORZ SE & Co. KG
Dr.-Karl-Storz-Straße 34, 78532 Tuttlingen/Germany
Postbox 230, 78503 Tuttlingen/Germany
Phone: +49 (0)7461 708-0
Fax: +49 (0)7461 708-105
E-Mail: info@karlstorz.com

www.karlstorz.com

