

ENDOSCOPIC SPINE SURGERY

Advanced Technologies for
Minimally Invasive Spine Care.

AFSUHAM | ENDOSCOPIC SPINE SURGERY

Advanced Technologies for Minimally Invasive Spine Care

INVITATION TO COLLABORATE

SUBJECT

Invitation to Collaborate in Advancing Endoscopic Spine Surgery

Dear Patron

The future of spine surgery will be shaped not by technology alone, but by the ecosystem built around it: clinical expertise, structured education, appropriate patient selection, precision instrumentation, institutional capability, and responsible access to innovation.

Afsuham invites spine surgeons, neurosurgeons, orthopaedic surgeons, hospitals, academic and training institutions, medical-technology organisations, research partners, and qualified distribution partners to explore collaboration within the AFSUHAM | ENDOSCOPIC SPINE SURGERY initiative.

As spine care continues its progression toward increasingly precise and tissue-preserving approaches, endoscopic and minimally invasive techniques are creating new possibilities across lumbar, thoracic, and cervical spine care.

OUR AREAS OF ENGAGEMENT INCLUDE:

- ◆ Transforaminal Endoscopic Surgery
- ◆ Interlaminar Endoscopic Surgery
- ◆ Uniportal Endoscopic Spine Surgery
- ◆ UBE / Biportal Endoscopic Spine Surgery
- ◆ Endoscopic Decompression
- ◆ Endoscopic Fusion
- ◆ Minimally Invasive Spine Surgery

THE OPPORTUNITY IS LARGER THAN A SURGICAL SYSTEM

Afsuham's objective is to help develop a connected international ecosystem where technology, clinical knowledge, education, and institutional partnerships reinforce one another.

We welcome collaboration across:

- ◆ Hands-on Training & Clinical Education
- ◆ Teaching, Mentorship & Faculty Development
- ◆ Observerships & Academic Exchange
- ◆ Centres of Excellence & Reference-Centre Collaboration
- ◆ Surgical Technology & Instrumentation
- ◆ Clinical and Institutional Partnerships
- ◆ Distribution & Market Development
- ◆ Supply-Chain & Technical Support
- ◆ Research, Knowledge Exchange & International Collaboration

JOIN • COLLABORATE • ADVANCE

We are particularly interested in engaging stakeholders who share a long-term commitment to clinical quality, responsible innovation, surgeon education, and sustainable expansion of minimally invasive spine care.

HOSPITALS & ACADEMIC INSTITUTIONS

For hospitals and academic institutions, this creates an opportunity to strengthen clinical capabilities and professional education.

SURGEONS & FACULTY

For surgeons and faculty, it creates a platform for knowledge exchange, structured training, and international collaboration.

TECHNOLOGY & DISTRIBUTION PARTNERS

For technology and distribution partners, it creates an opportunity to participate in developing scalable, market-appropriate endoscopic spine ecosystems.

The ambition is clear: connect clinical excellence with technology and education to help broaden responsible access to advanced minimally invasive spine care.

We invite relevant stakeholders to begin a strategic dialogue with Afsuham and explore where our respective capabilities can create meaningful long-term value.

AFSUHAM | ENDOSCOPIC SPINE SURGERY

Advancing Endoscopic Spine Surgery Through Technology, Education & Global Collaboration

EXPLORE & COLLABORATE

www.afsuham.com/endoscopy

Sincerely,

Sarfraz Munshi

Founder & CEO

REGULATORY NOTE

All clinical training, technology deployment, and professional activities remain subject to applicable qualifications, institutional credentialing, product approvals, and local regulatory requirements.

Afsuham | Endoscopic Spine Surgery

Engineering Precision. Advancing Minimally Invasive Spine Care.



Since 2013, Afsuham has pursued a clear ambition: to advance medical technology through quality, innovation and enduring clinical partnerships.

With a focus on Endoscopic Spine Surgery, Afsuham brings together precision engineering, product development and clinical insight to support the evolving needs of spine surgeons and healthcare institutions worldwide.

Our capabilities span the medical-technology value chain, from product concept and design to prototyping, system development and series production. The portfolio is built around one fundamental principle: technology must ultimately create meaningful value in the operating room and better possibilities for patients.

Afsuham's Endoscopic Spine Surgery ecosystem encompasses advanced endoscopes, surgical instrumentation, visualization technologies, access solutions and complementary systems designed to support modern minimally invasive spinal procedures.

Quality remains the foundation. Innovation provides the momentum. Partnership creates the scale.

Through collaboration with surgeons, clinical institutions, technology partners and medical-education networks, Afsuham is working to expand access to contemporary endoscopic techniques, strengthen surgical education and contribute to the continued advancement of minimally invasive spine care.

AFSUHAM Quality • Innovation • Precision • Partnership

Advancing the Global Standard of Endoscopic Spine Surgery



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ENDOSCOPIC SPINE SURGERY

MONOPORTAL

PRECISION | ACCESS | CONTROL

RECOMMENDED SET

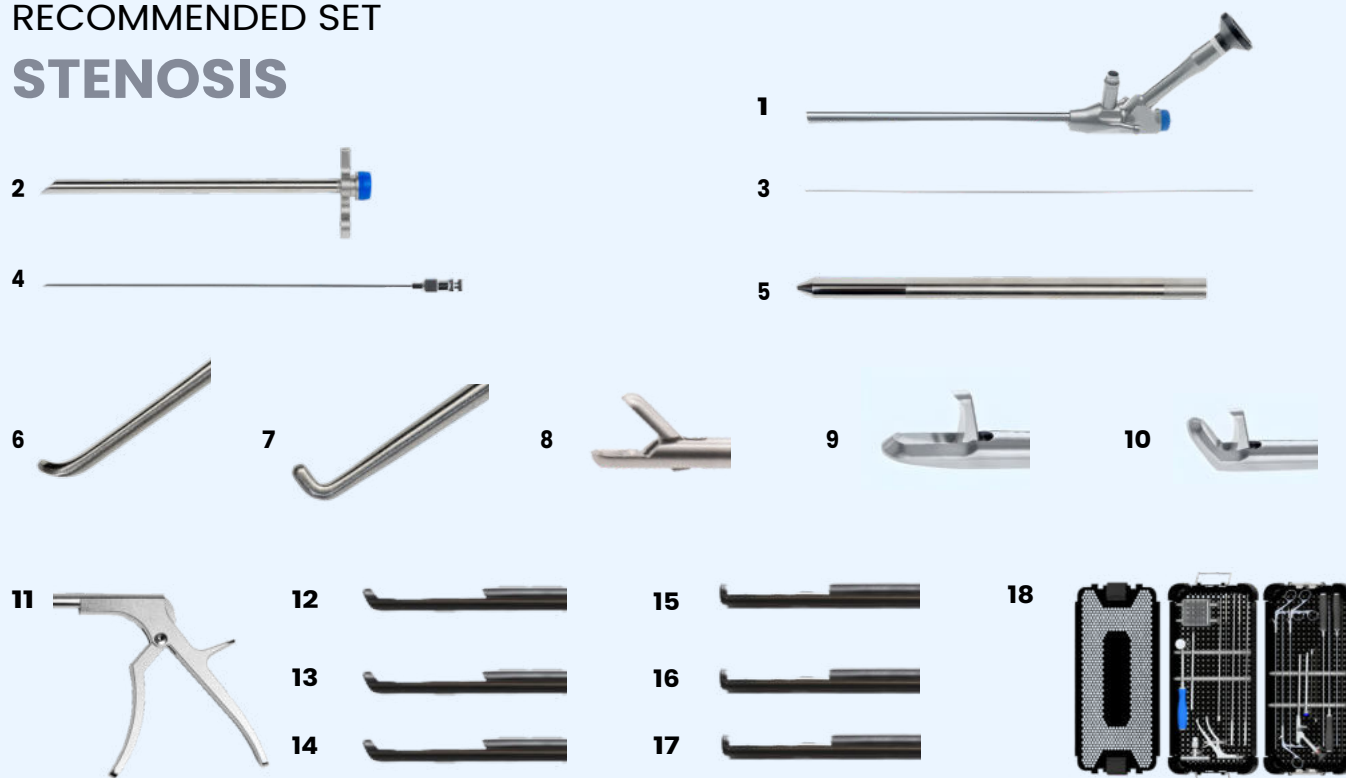
TRANSFORAMINAL



No.	Article No.	Article Description	Page
1	A-100-611	Scope Transforaminal D 7.0 mm, WL 181 mm, WC 4.3 mm, 30°	10
2	A-100-109	Working Tube Oblique Window ID 7.2 mm, OD 8.0 mm, WL 178 mm	11
3	A-100-574	Guide Wire Nitinol D 0.8 mm, WL 450 mm	13
4	A-100-599	Spinal Needle with Obturator	12
5	A-100-048	Trephine Handle	13
6	A-100-052	Trephine ID 2.55 mm, OD 3.55 mm, WL 350 mm	14
7	A-100-057	Metal Hammer OD 30 mm, WL 240 mm	13
8	A-100-061	Dilator 2-Channels D 7.0 mm, WL 225 mm	12
9	A-100-645	Probe D 3.0 mm, WL 310 mm	17
10	A-100-646	Hook Probe D 3.0 mm, WL 310 mm	17
11	A-100-643	Bone Chisel D 3.0 mm, WL 310 mm	16
12	A-100-006	Cup Forceps Straight Jaw D 2.5 mm, WL 330 mm	22
13	A-100-043	Hook Scissors Punch Straight Jaw D 2.5 mm, WL 330 mm	22
14	A-100-023	Micro Spoon Up Angled Jaw D 2.0 mm, WL 330 mm	24
15	A-100-740	Endoscopic Kerrison Handle	25
16	A-100-134-B	Endoscopic Kerrison Punch, Ceramic Coated D 3.5 mm, 90°, WL 360 mm	27
17	A-100-127-B	Endoscopic Kerrison Punch, Ceramic Coated D 3.5 mm, 40°, WL 360 mm	26
18	A-100-913	Aluminium Tray for TRANSFORAMINAL	28

RECOMMENDED SET

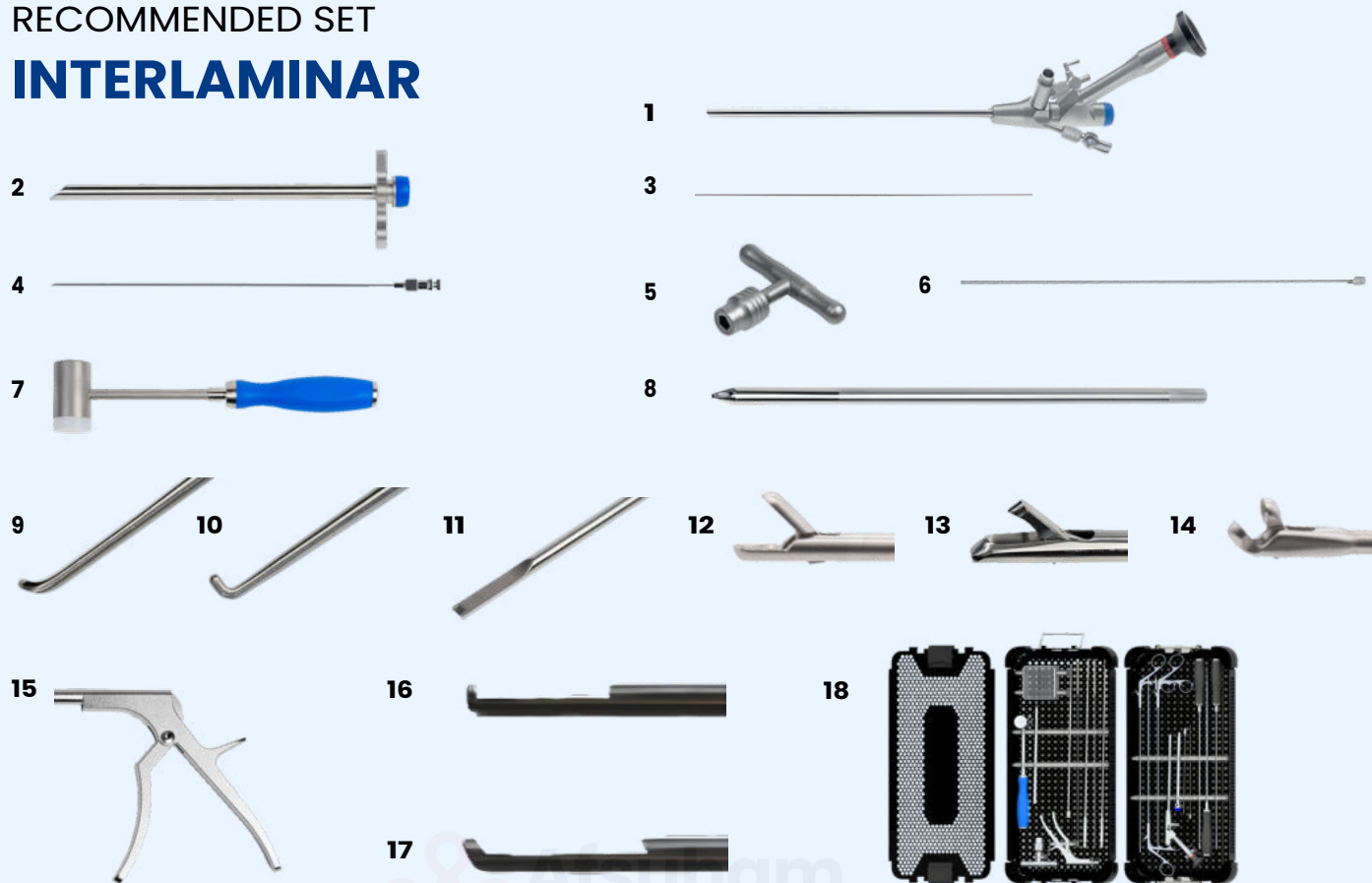
STENOSIS



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1	A-100-396	Scope Stenosis D 10 mm, WL 139 mm, WC 7.1 mm, 15°	10
2	A-001-144	Working Tube Oblique Window ID 10.2 mm, OD 11.2 mm, WL 134 mm	11
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4	A-100-599	Spinal Needle with Obturator	12
5	A-001-190	Dilator Single Hole D 10 mm, WL 185 mm	12
6	A-100-652	Probe D 3.0 mm, WL 260 mm	17
7	A-100-653	Hook Probe D 3.0 mm, WL 260 mm	17
8	A-100-004	Cup Forceps Straight Jaw D 4.0 mm, WL 260 mm	22
9	A-100-037	Duck Jaw Punch Straight D 3.5 mm, WL 260 mm	21
10	A-100-041	Scissors Punch Up Angled Jaw D 2.5 mm, WL 260 mm	24
11	A-100-740	Endoscopic Kerrison Handle	25
12	A-100-133-B	Endoscopic Kerrison Punch, Ceramic Coated D 4.0 mm, 40°, WL 260 mm	26
13	A-100-138-B	Endoscopic Kerrison Punch, Ceramic Coated D 5.0 mm, 40°, WL 260 mm	26
14	A-100-139-B	Endoscopic Kerrison Punch, Ceramic Coated D 6.0 mm, 40°, WL 260 mm	26
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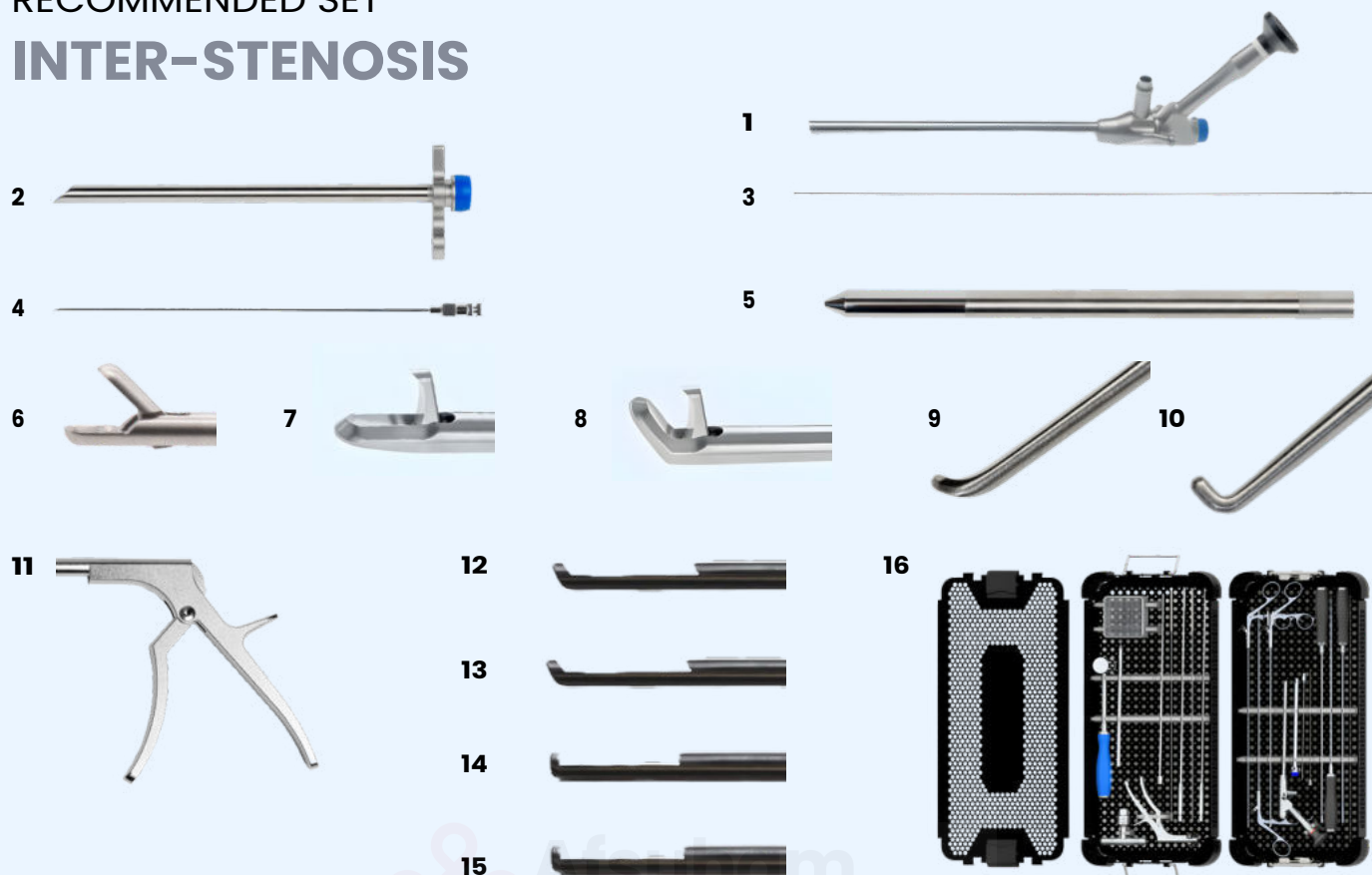
INTERLAMINAR



No.	Article No.	Article Description	Page
1	A-100-609	Scope Interlaminar D 7.0 mm, WL 130 mm, WC 4,3 mm, 30°	10
2	A-100-113	Working Tube Oblique Window ID 7.2 mm, OD 8.0 mm, WL 125 mm	11
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10	A-100-653	Hook Probe D 3.0 mm, WL 260 mm	17
11	A-100-655	Bone Chisel D 3.0 mm, WL 260 mm	16
12	A-100-003	Cup Forceps Straight Jaw D 2.5 mm, WL 260 mm	22
13	A-100-041	Scissors Punch Up Angled Jaw D 2.5 mm, WL 260 mm	24
14	A-100-640	Micro Spoon Up Angled Jaw D 2.0 mm, WL 260 mm	24
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16	A-100-135-B	Endoscopic Kerrison Punch, Ceramic Coated D 3.5 mm, 90°, WL 260 mm	27
17	A-100-130-B	Endoscopic Kerrison Punch, Ceramic Coated D 3.5 mm, 40°, WL 260 mm	26
18	A-100-913	Aluminium Tray for INTERLAMINAR	27

RECOMMENDED SET

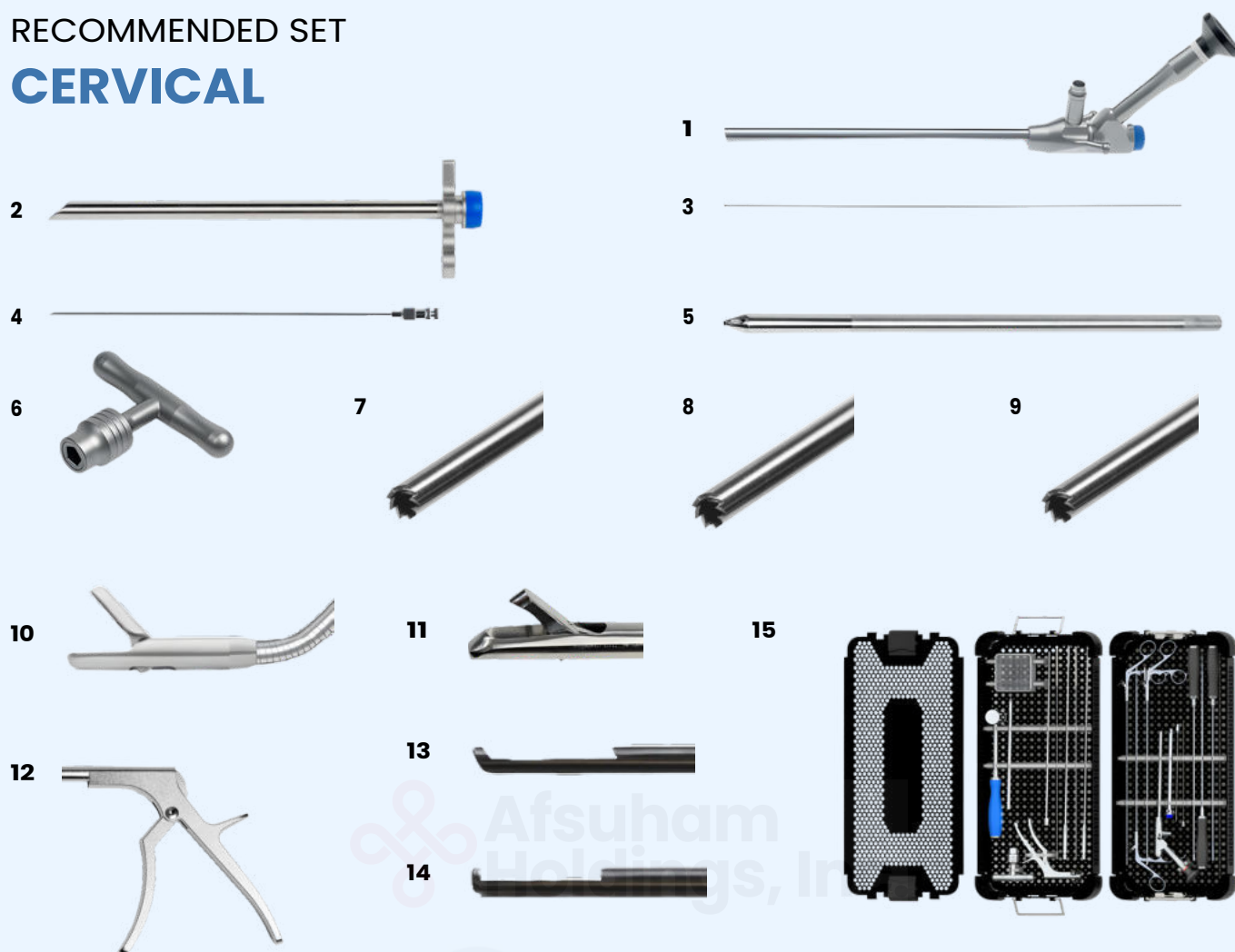
INTER-STENOSIS



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1	A-100-780	Scope Inter-Stenosis D 8.4 mm, WL 125 mm, WC 5.7 mm, 15°	10
2	A-001-491	Working Tube Oblique Window ID 8.5 mm, OD 9.5 mm, WL 120 mm	11
3	A-100-574	Guide Wire Nitinol D 0.8 mm, WL 450 mm	13
4	A-100-599	Spinal Needle with Obturator	12
5	A-001-490	Dilator Single Hole D 8.5 mm, WL 185 mm	12
6	A-100-003	Cup Forceps Straight Jaw D 3.5 mm, WL 260 mm	22
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14	A-100-137-B	Endoscopic Kerrison Punch, Ceramic Coated D 4.0 mm, 90°, WL 260 mm	27
15	A-100-131-B	Endoscopic Kerrison Punch, Ceramic Coated D 5.0 mm, 90°, WL 260 mm	27
16	A-100-921	Aluminium Tray for INTER-STENOSIS	28

RECOMMENDED SET

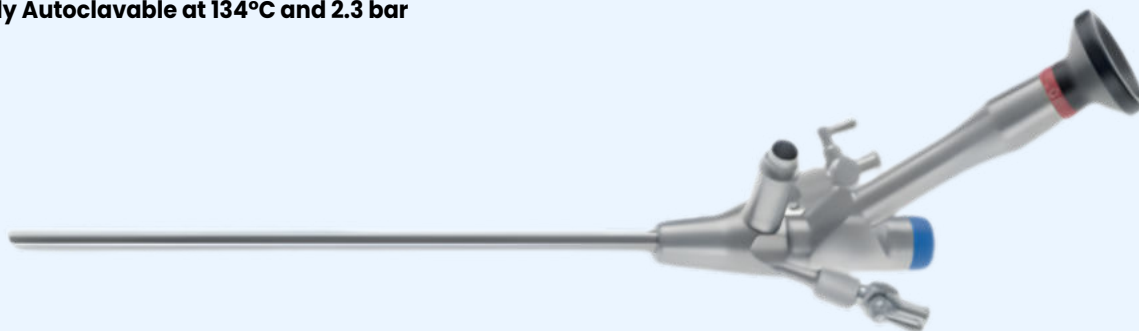
CERVICAL



No.	Article No.	Article Description	Page
1	A-100-930	Scope Cervical D 5.3 mm, WL 130 mm, WC 2.8 mm, 30°	10
2	A-100-931	Working Tube Oblique Window OD 6.5 mm, ID 5.5 mm, WL 130 mm	11
3	A-100-574	Guide Wire Nitinol D 0.8 mm, WL 450 mm	13
4	A-100-599	Spinal Needle with Obturator	12
5	A-100-059	Dilator 2-Channels, D 5.3 mm, WL 225 mm	12
6	A-100-048	Trephine Handle	13
7	A-100-037	Trephine (Cervical) ID 3.3 mm, OD 3.7 mm, WL 150 mm	14
8	A-100-072	Trephine (Cervical) ID 2.7 mm, OD 3.1 mm, WL 180 mm	14
9	A-100-071	Trephine (Cervical) ID 1.5 mm, OD 2.0 mm, WL 260 mm	14
10	A-100-933	Cup Forceps Flex Tip Upward Jaw D 2.5 mm, WL 260 mm	23
11	A-100-040	Scissors Punch Straight Jaw D 2.5 mm, WL 260 mm	22
12	A-100-740	Endoscopic Kerrison Handle	25
13	A-100-614-B	Endoscopic Kerrison Punch, Ceramic Coated D 2.5 mm, 40°, WL 260 mm	26
14	A-100-616-B	Endoscopic Kerrison Punch, Ceramic Coated D 2.5 mm, 90°, WL 260 mm	27
15	A-100-922	Aluminium Tray for CERVICAL	28

SPINAL ENDOSCOPES

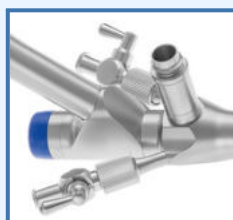
- Eyepiece for C-mount connection
- 3-step light post adapters to connect the most common light cables directly to the endoscope
- Sapphire glasses ensure highest stability against damages on the lens system
- Optimized glass fibres arrangements ensure an uniform image brightness of highest quality
- High definition pictures with increased detail-resolution through newest CAD-designed rod-lens systems
- Fully Autoclavable at 134°C and 2.3 bar



	Working channel	Outer-Ø	Working length	Viewing angle	Recommended for
A-100-396	7.1 mm	10 mm	139 mm	15°	STENOSIS
A-100-780	5.7 mm	8.4 mm	125 mm	15°	INTER-STENOSIS
A-100-930	2.8 mm	5.3 mm	130 mm	30°	CERVICAL
A-100-608	3.75 mm	6.3 mm	130 mm	30°	INTERLAMINAR
A-100-609	4.3 mm	7.0 mm	130 mm	30°	INTERLAMINAR
A-100-610	3.75 mm	6.3 mm	181 mm	30°	TRANSFORAMINAL
A-100-611	4.3 mm	7.0 mm	181 mm	30°	TRANSFORAMINAL



**Straight working
channel**



**Two lateral suction-irrigation
channels with detachable
stopcock**



**Universal light guide
connection**

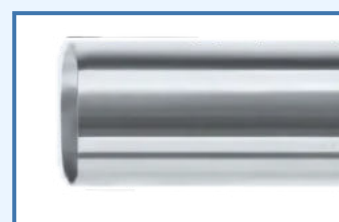


**Optimized glass
fibers arrangements**

WORKING TUBES



STRAIGHT	Inner- Ø	Outer- Ø	Working length
A-100-932	5.5 mm	6.5 mm	130 mm
A-100-094	6.5 mm	7.5 mm	130 mm
A-100-095	7.2 mm	8.0 mm	130 mm
A-001-191	10.2 mm	11.2 mm	134 mm
A-100-092	6.5 mm	7.5 mm	178 mm
A-100-093	7.2 mm	8.0 mm	178 mm



OBLIQUE WINDOW	Inner- Ø	Outer- Ø	Working length
A-100-112	6.5 mm	7.5 mm	125 mm
A-100-113	7.2 mm	8.0 mm	125 mm
A-100-931	5.5 mm	6.5 mm	130 mm
A-100-110	6.5 mm	7.5 mm	130 mm
A-100-111	7.2 mm	8.0 mm	130 mm
A-001-144	10.2 mm	11.2 mm	134 mm
A-100-108	6.5 mm	7.5 mm	178 mm
A-100-109	7.2 mm	8.0 mm	178 mm



SPINAL NEEDLE

A-100-599

Spinal Needle with Obturator

OD 1.25 mm, ID 0.99 mm, WL 180 mm



DILATOR 2-CHANNEL	Ø	Working length
A-100-059	5.3 mm	225 mm
A-100-060	6.3 mm	225 mm
A-100-061	7.0 mm	225 mm



DILATOR SINGLE HOLE	Ø	Working length
A-001-490	8.5 mm	185 mm
A-001-190	10 mm	185 mm



Developed
and Made
in Germany
DIRECT from the manufacturer.

TREPHINE HANDLE

A-100-048

Trephine Handle



A-001-364

Trephine Handle

Black overmoulded



METAL HAMMER

A-100-057

Metal Hammer

blue silicon handle with plastic stopper (one-sided)

D 30 mm, WL 240 mm



A-100-547

Metal Hammer

black silicon handle with plastic stopper (both-sided)

D 25 mm, WL 200 mm



GUIDE WIRE	Ø	Working length
A-100-574 (nitinol)	0.8 mm	450 mm
A-100-563 (titan)	0.8 mm	450 mm
A-100-062 (titan)	1.0 mm	450 mm



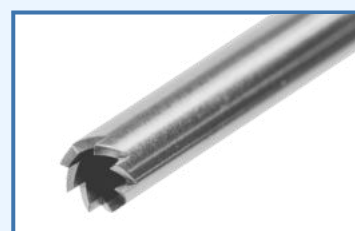
TREPHINE	Inner-Ø	Outer-Ø	Working length
A-100-049	4.1 mm	5.1 mm	225 mm
A-100-050	5.6 mm	6.6 mm	225 mm
A-100-051	6.6 mm	7.6 mm	225 mm
A-100-052	2.55 mm	3.55 mm	350 mm
A-100-053	3.1 mm	4.1 mm	350 mm



 **Afsuham
Holdings, Inc.**



TREPHINE (CERVICAL)	Inner- Ø	Outer- Ø	Working length
A-100-073	3.3 mm	3.7 mm	150 mm
A-100-072	2.7 mm	3.1 mm	180 mm
A-100-071	1.5 mm	2.0 mm	260 mm





DRILL RETROGRADE	Ø	Working length
A-100-054	5.0 mm	260 mm
A-100-055	6.5 mm	260 mm
A-100-056	7.5 mm	260 mm
A-001-065	8.8 mm	260 mm



TREPHINE PROTECTION TUBE	Inner- Ø	Outer- Ø	Working length
A-100-083	5.2 mm	6.0 mm	160 mm
A-100-085	6.7 mm	7.5 mm	160 mm
A-100-087	7.7 mm	8.5 mm	160 mm



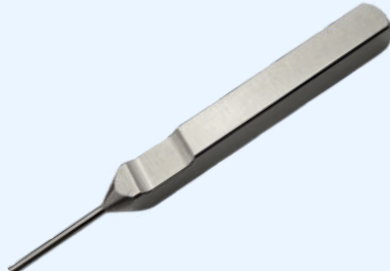
IMPACTOR

A-001-395

ID 7.5 mm, WL 80 mm



PROBES AND CHISELS

	Bone Chisel Blunt	Bone Chisel
		
Plastic Handle Weight 86gr. 	A-100-664 D 3.0 mm, WL 260 mm	A-100-665 D 3.0 mm, WL 260 mm
	A-100-659 D 3.0 mm, WL 310 mm	A-100-660 D 3.0 mm, WL 310 mm
Silicone Handle Weight 45gr. 	A-100-649 D 3.0 mm, WL 260 mm	A-100-650 D 3.0 mm, WL 260 mm
	A-100-642 D 3.0 mm, WL 310 mm	A-100-643 D 3.0 mm, WL 310 mm
Squared Handle Steel Weight 100gr. 	A-100-674 D 3.0 mm, WL 260 mm	A-100-675 D 3.0 mm, WL 260 mm
	A-100-669 D 3.0 mm, WL 310 mm	A-100-670 D 3.0 mm, WL 310 mm
	A-100-682 D 2.5 mm, WL 260 mm	A-100-683 D 2.5 mm, WL 260 mm
	A-100-679 D 2.5 mm, WL 310 mm	A-100-680 D 2.5 mm, WL 310 mm
Knurled Handle Steel Weight 142 gr. 	A-100-654 D 3.0 mm, WL 260 mm	A-100-655 D 3.0 mm, WL 260 mm
	A-100-066 D 3.0 mm, WL 310 mm	A-100-067 D 3.0 mm, WL 310 mm

PROBES AND CHISELS

Bone Chisel Awl	Probe	Hook Probe
		
A-100-666 D 3.0 mm, WL 260 mm	A-100-667 D 3.0 mm, WL 260 mm	A-100-668 D 3.0 mm, WL 260 mm
A-100-661 D 3.0 mm, WL 310 mm	A-100-662 D 3.0 mm, WL 310 mm	A-100-663 D 3.0 mm, WL 310 mm
A-100-651 D 3.0 mm, WL 260 mm	A-100-652 D 3.0 mm, WL 260 mm	A-100-653 D 3.0 mm, WL 260 mm
A-100-644 D 3.0 mm, WL 310 mm	A-100-645 D 3.0 mm, WL 310 mm	A-100-646 D 3.0 mm, WL 310 mm
A-100-676 D 3.0 mm, WL 260 mm	A-100-677 D 3.0 mm, WL 260 mm	A-100-678 D 3.0 mm, WL 260 mm
A-100-671 D 3.0 mm, WL 310 mm	A-100-672 D 3.0 mm, WL 310 mm	A-100-673 D 3.0 mm, WL 310 mm
A-100-684 D 2.5 mm, WL 260 mm	A-100-685 D 2.5 mm, WL 260 mm	A-100-686 D 2.5 mm, WL 260 mm
A-100-681 D 2.5 mm, WL 310 mm	A-100-647 D 2.5 mm, WL 310 mm	A-100-648 D 2.5 mm, WL 310 mm
A-100-656 D 3.0 mm, WL 260 mm	A-100-657 D 3.0 mm, WL 260 mm	A-100-658 D 3.0 mm, WL 260 mm
A-100-068 D 3.0 mm, WL 310 mm	A-100-069 D 3.0 mm, WL 310 mm	A-100-070 D 3.0 mm, WL 310 mm

ROD PUSHER



A-100-074

OD 2.5 mm, ID 1.0 mm, WL 230 mm

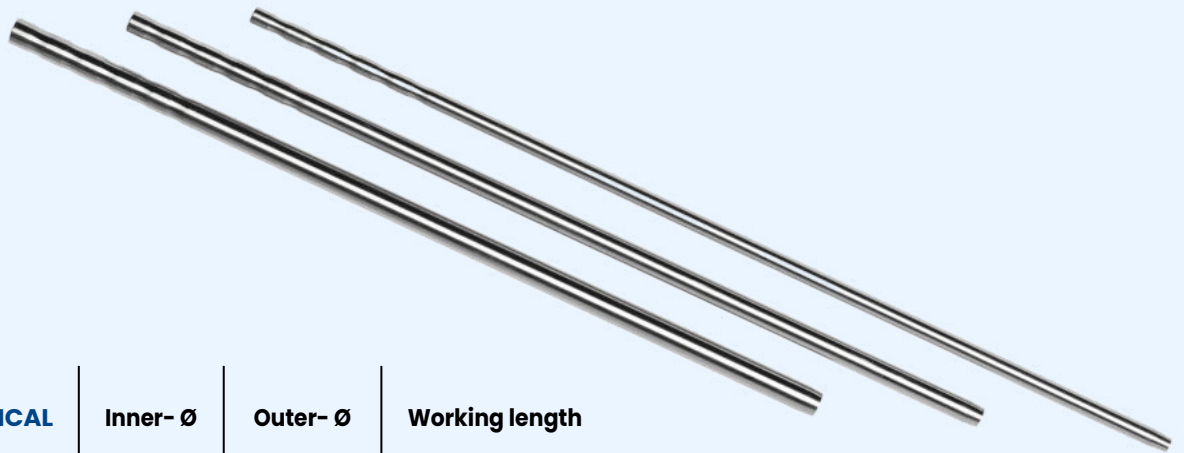


NERV ROOT PROTECTION STANDARD	Ø	Working length
A-100-878	5.6 x 0.3 mm	220 mm
A-100-875	3.7 x 0.2 mm	230 mm
A-100-876	4.2 x 0.2 mm	230 mm
A-100-879	7.0 x 0.25 mm	230 mm
A-100-877	4.2 x 0.2 mm	280 mm



NERV ROOT PROTECTION CERAMIC COATED	Ø	Working length
A-100-878-B	5.6 x 0.3 mm	220 mm
A-100-875-B	3.7 x 0.2 mm	230 mm
A-100-876-B	4.2 x 0.2 mm	230 mm
A-100-879-B	7.0 x 0.25 mm	230 mm
A-100-877-B	4.2 x 0.2 mm	280 mm

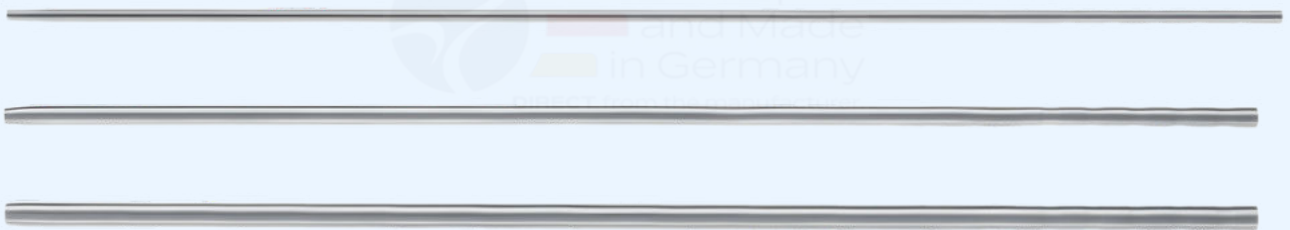




DILATOR CONICAL	Inner- Ø	Outer- Ø	Working length
A-100-077	1.0 mm	2.5 mm	230 mm
A-100-078	1.5 mm	4.0 mm	230 mm
A-100-079	2.0 mm	5.0 mm	230 mm

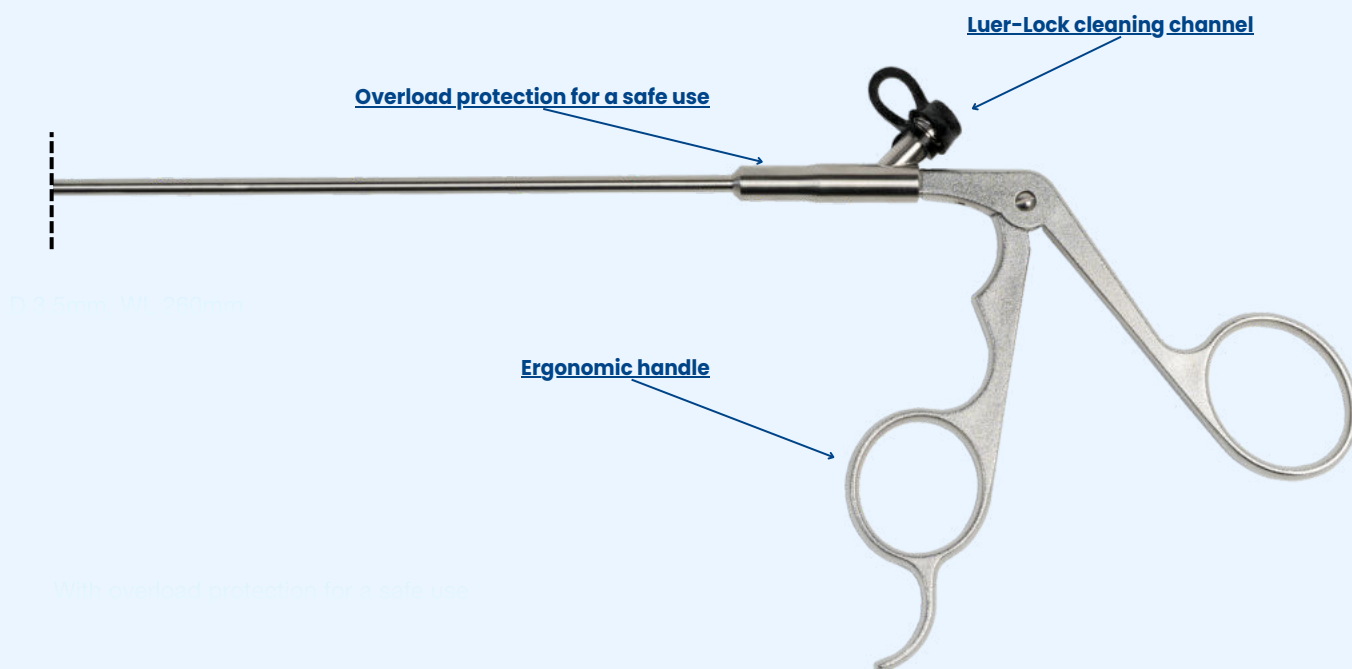
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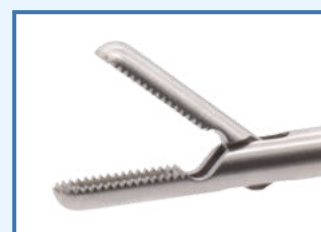


DILATOR CONICAL TUBES	Inner- Ø	Outer- Ø	Working length
A-100-082	2.8 mm	4.1 mm	185 mm
A-100-080	4.2 mm	5.1 mm	170 mm
A-100-081	5.2 mm	6.0 mm	160 mm

FORCEPS, PUNCHES, SCISSORS & SPOONS



GRASPING FORCEPS STRAIGHT	Ø	Working length
A-100-034	2.5 mm	260 mm
A-100-403	3.5 mm	260 mm
A-100-404	4.0 mm	260 mm
A-100-011	2.0 mm	330 mm
A-100-012	2.5 mm	330 mm
A-100-013	3.5 mm	330 mm
A-100-014	4.0 mm	330 mm



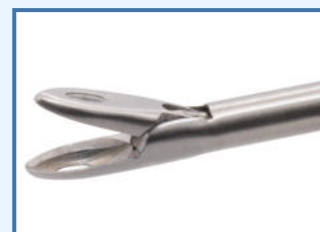
DUCK JAW PUNCH STRAIGHT

	Ø	Working length
A-100-639	2.5 mm	260 mm
A-100-037	3.5 mm	260 mm
A-100-638	2.5 mm	330 mm
A-100-038	3.5 mm	330 mm



BLAKESLEY BIOPSY GRASPING FORCEPS

	Ø	Working length
A-100-407	2.5 mm	260 mm
A-100-408	3.5 mm	260 mm
A-100-405	2.5 mm	330 mm
A-100-406	3.5 mm	330 mm



HOOK SCISSORS STRAIGHT JAW

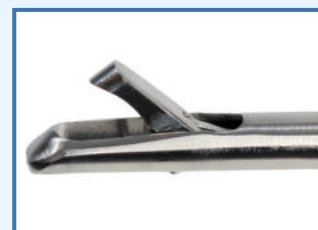
	Ø	Working length
A-100-411	2.5 mm	260 mm
A-100-046	3.5 mm	260 mm
A-100-414	2.5 mm	330 mm
A-100-047	3.5 mm	330 mm



CUP FORCEPS STRAIGHT JAW	Ø	Working length
A-100-001	2.0 mm	260 mm
A-100-002	2.5 mm	260 mm
A-100-694	3.0 mm	260 mm
A-100-003	3.5 mm	260 mm
A-100-004	4.0 mm	260 mm
A-100-033	5.0 mm	260 mm
A-100-005	2.0 mm	330 mm
A-100-006	2.5 mm	330 mm
A-100-031 (hookles handle)	2.5 mm	330 mm
A-100-008	3.0 mm	330 mm
A-100-009	3.5 mm	330 mm
A-100-010	4.0 mm	330 mm



HOOK SCISSORS PUNCH STRAIGHT JAW	Ø	Working length
A-100-040	2.5 mm	260 mm
A-100-042	3.0 mm	260 mm
A-100-412	3.5 mm	260 mm
A-100-043	2.5 mm	330 mm
A-100-419	3.0 mm	330 mm
A-100-045	3.5 mm	330 mm



FLEX TIP UPWARD JAW	JAW	Ø	Working length
A-100-933	CUP FORCEPS	2.5 mm	260 mm
A-100-592	CUP FORCEPS	3.0 mm	260 mm
A-100-591	CUP FORCEPS	2.5 mm	330 mm
A-100-593	CUP FORCEPS	3.0 mm	330 mm
A-100-960	BLAKESLEY	2.0 mm	260 mm
A-100-962	BLAKESLEY	2.5 mm	260 mm
A-100-961	BLAKESLEY	2.0 mm	330 mm
A-100-963	BLAKESLEY	2.5 mm	330 mm
A-100-964	MICRO SPOON	2.0 mm	260 mm
A-100-965	MICRO SPOON	2.5 mm	260 mm
A-100-966	MICRO SPOON	2.0 mm	330 mm
A-100-967	MICRO SPOON	2.5 mm	330 mm
A-100-968	GRASPING FORCEPS	2.0 mm	260 mm
A-100-970	GRASPING FORCEPS	2.5 mm	260 mm
A-100-969	GRASPING FORCEPS	2.0 mm	330 mm
A-100-971	GRASPING FORCEPS	2.5 mm	330 mm



MICRO SPOON STRAIGHT JAW	Ø	Working length
A-100-015	2.5 mm	260 mm
A-100-016	3.5 mm	260 mm
A-100-017	4.0 mm	260 mm
A-100-018	2.0 mm	330 mm
A-100-019	2.5 mm	330 mm
A-100-020	3.5 mm	330 mm
A-100-021	4.0 mm	330 mm



MICRO SPOON UP ANGLED JAW	Ø	Working length
A-100-640	2.0 mm	260 mm
A-100-022	2.5 mm	260 mm
A-100-023	2.0 mm	330 mm
A-100-024	2.5 mm	330 mm



SCISSORS PUNCH UP ANGLED JAW	Ø	Working length
A-100-041	2.5 mm	260 mm
A-100-582	3.5 mm	260 mm
A-100-044	2.5 mm	330 mm
A-100-415	3.5 mm	330 mm



NITINOL PROBE

A-001-340

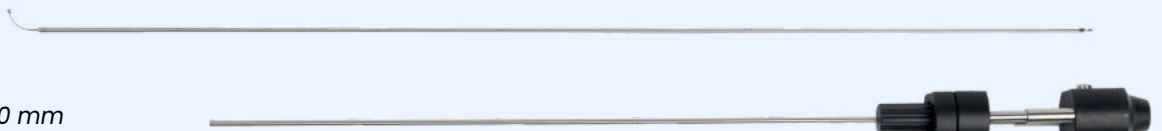
OD 3.5 mm, WL 300 mm



FLEXIBLE PROBE

A-001-131

D 1.8 mm, WL 330 mm



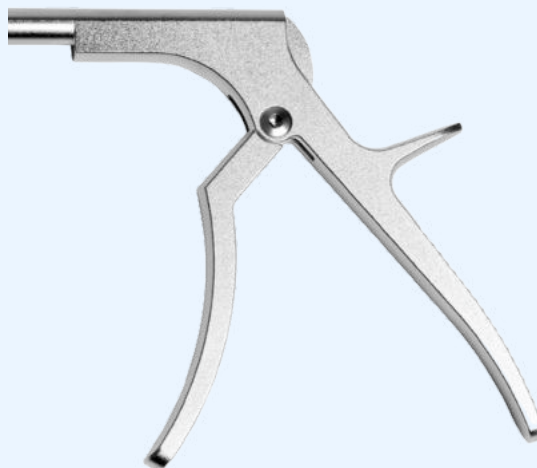
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ENDOSCOPIC KERRISON HANDLE

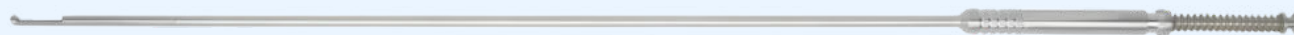
A-100-740



ENDOSCOPIC KERRISON PUNCHES

With integrated Luer-Lock cleaning channel.

All Kerrisons punches are also available with a ceramic coating for better performance and to prevent reflections.



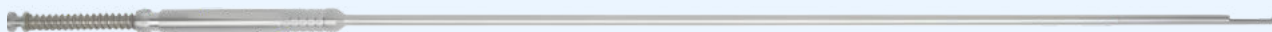
STANDARD	CERAMIC COATED	Ø	Degree	Working length
A-100-614	A-100-614-B	2.5 mm	40°	260 mm
A-100-622	A-100-622-B	3.0 mm	40°	260 mm
A-100-130	A-100-130-B	3.5 mm	40°	260 mm
A-100-133	A-100-133-B	4.0 mm	40°	260 mm
A-100-636 (bent upwards)	A-100-636-B (bent upwards)	4.0 mm	40°	260 mm
A-100-138	A-100-138-B	5.0 mm	40°	260 mm
A-100-139	A-100-139-B	6.0 mm	40°	260 mm
A-100-621	A-100-621-B	3.0 mm	40°	300 mm
A-100-128	A-100-128-B	3.5 mm	40°	300 mm
A-100-142	A-100-142-B	4.0 mm	40°	300 mm
A-100-620	A-100-620-B	3.0 mm	40°	360 mm
A-100-127	A-100-127-B	3.5 mm	40°	360 mm
A-100-129	A-100-129-B	4.0 mm	40°	360 mm



ENDOSCOPIC KERRISON PUNCHES

With integrated Luer-Lock cleaning channel.

All Kerrisons punches are also available with a ceramic coating for better performance and to prevent reflections.



STANDARD	CERAMIC COATED	Ø	Degree	Working length
A-100-616	A-100-616-B	2.5 mm	90°	260 mm
A-100-624	A-100-624-B	3.0 mm	90°	260 mm
A-100-135	A-100-135-B	3.5 mm	90°	260 mm
A-100-137	A-100-137-B	4.0 mm	90°	260 mm
A-100-131	A-100-131-B	5.0 mm	90°	260 mm
A-100-132	A-100-132-B	6.0 mm	90°	260 mm
A-100-625	A-100-625-B	3.0 mm	90°	300 mm
A-100-140	A-100-140-B	3.5 mm	90°	300 mm
A-100-145	A-100-145-B	4.0 mm	90°	300 mm
A-100-623	A-100-623-B	3.0 mm	90°	360 mm
A-100-134	A-100-134-B	3.5 mm	90°	360 mm
A-100-136	A-100-136-B	4.0 mm	90°	360 mm



TRAY

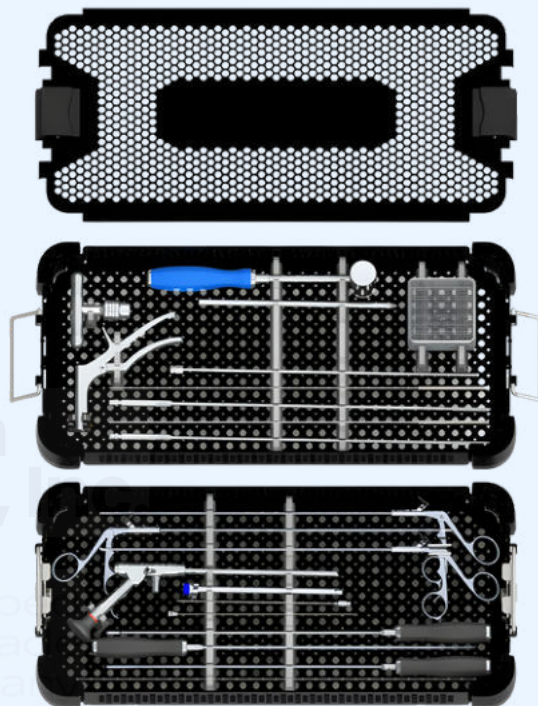
Available for all sets recommended by us OR customised to your personal requirements.

For a smaller selection of instruments, there is the non-stackable tray with one layer.

For a larger selection of instruments, there is the stackable tray. Multiple layers can be stacked on top of each other using a simple mechanism.

The modular trays are available in aluminium or stainless steel.

	Description
A-100-913	Aluminium Tray for TRANSFORAMINAL / INTERLAMINAR
A-100-915	Aluminium Tray for STENOSIS
A-100-921	Aluminium Tray for INTER-STENOSIS
A-100-922	Aluminium Tray for CERVICAL
A-100-870	Modular Tray stackable, Aluminium
A-100-871	Modular Tray non-stackable, Aluminium
A-100-882	Modular Tray stackable, Stainless steel
A-100-883	Modular Tray non-stackable, Stainless steel





ENDOSCOPIC SPINE SURGERY

BIPORTAL

PRECISION | ACCESS | CONTROL

Endoscopic Spine Surgery

BIPORTAL

RECOMMENDED SET

FUSION

Article No.	Article Description	Page
A-100-824	Discoscope D 4.0 mm, WL 175 mm, 0°	35
A-100-934	Sheath System D 5.5 mm, Operating sheath with 1 stopcock	35
A-100-827	Obturator for Discoscope D 5.5 mm, blunt, bayonet lock	35
A-100-801	Lockable Protector Sheath OD 8.0 mm, ID 6.5 mm, WL 95 mm	35
A-100-741	Dilator UBE Size 1, OD 4.8 mm, WL 195 mm	36
A-100-742	Dilator UBE Size 2, ID 5.0 mm, OD 7.0 mm, WL 180 mm	36
A-100-743	Dilator UBE Size 3, ID 7.0 mm, OD 9.0 mm, WL 165 mm	36
A-100-744	Dilator UBE Size 4, ID 9.0mm, OD 11 mm, WL 150 mm	36
A-100-745	Dilator UBE Size 5, ID 11 mm, OD 13 mm, WL 135 mm	36
A-100-746	Dilator UBE Size 6, ID 13 mm, OD 15 mm, WL 120 mm	36
A-100-797	Working Skid LS, 15 mm, ID 12 mm, length 50 mm	36
A-100-798	Working Skid LM, 15 mm, ID 12 mm, length 70 mm	36
A-100-799	Working Skid LL, 15 mm, ID 12 mm, length 90 mm	36
A-100-747	Nerv Root Retractor Edgefold, working length 115 mm, width 4.0 mm	37
A-100-748	Nerv Root Retractor Edgefold, working length 115 mm, width 8.0 mm	37
A-100-749	Nerv Root Retractor Edgefold left, working length 115 mm, width 8.0 mm	37
A-100-750	Nerv Root Retractor Edgefold right, working length 115 mm, width 8.0 mm	37
A-100-767	Kerrison Foramenotomy Punch Upcurved shaft, upwards cutting, length 200 mm, width 2.0 mm	38
A-100-768	Kerrison Punch Upwards Cutting Length 200 mm, width 3.0 mm	39
A-100-769	Kerrison Punch Upwards Cutting Length 200 mm, width 4.0 mm	39
A-100-770	Rongeur Straight, 3x10 mm bite, WL 180 mm	40
A-100-793	Rongeur Straight, 1.5x10 mm bite, WL 180 mm	40
A-100-771	Rongeur Upwards curved, 1.5x10 mm bite, WL 180 mm	40
A-100-740	Endoscopic Kerrison Handle for rotatable Kerrisons	40
A-100-772-B	Endoscopic Kerrison Punch, Ceramic Coated D 5.0 mm, 40°, WL 150 mm	41
A-100-773-B	Endoscopic Kerrison Punch, Ceramic Coated D 5.0 mm, 90°, WL 150 mm	41
A-100-764	Hook Scissors Punch Straight Jaw D 4.0 mm, WL 150 mm	43
A-100-763	Blakesley Biopsy Grasping Forceps D 4.0 mm, WL 150 mm	42
A-100-802	Cup Forceps Straight Jaw D 4.0 mm, WL 150 mm	42
A-100-776	Bone Chisel Blunt D 4.0 mm, WL 120 mm	44
A-100-777	Bone Chisel D 4.0 mm, WL 120 mm	44
A-100-778	Hook Probe D 3.0 mm, WL 150 mm	45

Endoscopic Spine Surgery

BIPORTAL

Article No.	Article Description	Page
A-100-779	Probe D 3.0 mm, WL 150 mm	45
A-100-782	Arrowhead Knife Silicone Handle, WL 120 mm	45
A-100-057	Hammer D 30 mm, WL 240 mm, with plastic stoppe (one-sided)	46
A-100-751	Mighty Chisel Straight, D 5.0 mm, length 120 mm	44
A-100-752	Mighty Chisel Left-bended, D 5.0 mm, length 120 mm	44
A-100-753	Mighty Chisel Right-bended, D 5.0 mm, length 120 mm	44
A-100-754	Mighty Chisel Up-bended, D 5.0 mm, length 120 mm	44
A-100-781	Curette Forward angled, oval spoon, 4.5x7 mm, WL 120 mm	46
A-100-755-B	Double Ended Retractor, Ceramic Coated 5° and 15°	47
A-100-756-B	Double Ended Retractor, Ceramic Coated 25° and 35°	47
A-100-782	Muscle Detacher T-Shape	47

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RECOMMENDED SET

DISC HERNIATION

Article No.	Article Description	Page
A-100-824	Discoscope D 4.0 mm, WL 175 mm, 0°	35
A-100-934	Sheath System D 5.5 mm, Operating sheath with 1 stopcock	35
A-100-827	Obturator for Discoscope D 5.5 mm, blunt, bayonet lock	35
A-100-801	Lockable Protector Sheath OD 8.0 mm, ID 6.5 mm, WL 95 mm	35
A-100-742	Dilator UBE Size 2, ID 5.0 mm, OD 7.0 mm, WL 180 mm	36
A-100-743	Dilator UBE Size 3, ID 7.0 mm, OD 9.0 mm, WL 165 mm	36
A-100-744	Dilator UBE Size 4, ID 9.0mm, OD 11 mm, WL 150 mm	36
A-100-797	Working Skid LS, 15 mm, ID 12 mm, length 50 mm	36
A-100-798	Working Skid LM, 15 mm, ID 12 mm, length 70 mm	36
A-100-747	Nerv Root Retractor Edgefold, working length 115 mm, width 4.0 mm	37
A-100-748	Nerv Root Retractor Edgefold, working length 115 mm, width 8.0 mm	37
A-100-749	Nerv Root Retractor Edgefold left, working length 115 mm, width 8.0 mm	37
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A-100-769	Kerrison Punch Upwards Cutting Length 200 mm, width 4.0 mm	39
A-100-793	Rongeur Straight, 1.5x10 mm bite, WL 180 mm	40
A-100-740	Endoscopic Kerrison Handle for rotatable Kerrisons	40
A-100-772-B	Endoscopic Kerrison Punch, Ceramic Coated D 5.0 mm, 40°, WL 150 mm	41
A-100-773-B	Endoscopic Kerrison Punch, Ceramic Coated D 5.0 mm, 90°, WL 150 mm	41
A-100-763	Blakesley Biopsy Grasping Forceps D 4.0 mm, WL 150 mm	42
A-100-057	Hammer D 30 mm, WL 240 mm, with plastic stopper(one-sided)	46
A-100-751	Mighty Chisel Straight, D 5.0 mm, length 120 mm	44
A-100-752	Mighty Chisel Left-bended, D 5.0 mm, length 120 mm	44
A-100-753	Mighty Chisel Right-bended, D 5.0 mm, length 120 mm	44
A-100-754	Mighty Chisel Up-bended, D 5.0 mm, length 120 mm	44
A-100-784	Curette Forward angled, oval spoon, 4.5x7 mm, WL 120 mm	46
A-100-755	Double Ended Retractor, Ceramic Coated 5° and 15°	47
A-100-756	Double Ended Retractor, Ceramic Coated 25° and 35°	47
A-100-782	Muscle Detacher T-Shape	47
A-100-911	Aluminium Tray for UBE Disc Herniation	47

RECOMMENDED SET

STENOSIS

Article No.	Article Description	Page
A-100-824	Discoscope D 4.0 mm, WL 175 mm, 0°	35
A-100-934	Sheath System D 5.5 mm, Operating sheath with 1 stopcock	35
A-100-827	Obturator for Discoscope D 5.5 mm, blunt, bayonet lock	35
A-100-801	Lockable Protector Sheath OD 8.0 mm, ID 6.5 mm, WL 95 mm	35
A-100-741	Dilator UBE Size 1, OD 4.8 mm, WL 195 mm	36
A-100-742	Dilator UBE Size 2, ID 5.0 mm, OD 7.0 mm, WL 180 mm	36
A-100-743	Dilator UBE Size 3, ID 7.0 mm, OD 9.0 mm, WL 165 mm	36
A-100-744	Dilator UBE Size 4, ID 9.0mm, OD 11 mm, WL 150 mm	36
A-100-797	Working Skid LS, 15 mm, ID 12 mm, length 50 mm	36
A-100-798	Working Skid LM, 15 mm, ID 12 mm, length 70 mm	36
A-100-799	Working Skid LL, 15 mm, ID 12 mm, length 90 mm	36
A-100-747	Nerv Root Retractor Edgefold, working length 115 mm, width 4.0 mm	37
A-100-748	Nerv Root Retractor Edgefold, working length 115 mm, width 8.0 mm	37
A-100-749	Nerv Root Retractor Edgefold left, working length 115 mm, width 8.0 mm	37
A-100-750	Nerv Root Retractor Edgefold right, working length 115 mm, width 8.0 mm	37
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A-100-768	Kerrison Punch Upwards Cutting Length 200 mm, width 3.0 mm	39
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A-100-773-B	Endoscopic Kerrison Punch, Ceramic Coated D 5.0 mm, 90°, WL 150 mm	41
A-100-764	Hook Scissors Punch Straight Jaw D 4.0 mm, WL 150 mm	43
A-100-763	Blakesley Biopsy Grasping Forceps D 4.0 mm, WL 150 mm	42
A-100-761	Cup Forceps Straight Jaw D 4.0 mm, WL 150 mm	42
A-100-776	Bone Chisel Blunt D 4.0 mm, WL 120 mm	44
A-100-777	Bone Chisel D 4.0 mm, WL 120 mm	44
A-100-778	Hook Probe D 3.0 mm, WL 150 mm	45
A-100-779	Probe D 3.0 mm, WL 150 mm	45
A-100-784	Arrowhead Knife Silicone Handle, WL 120 mm	45
A-100-057	Hammer D 30 mm, WL 240 mm, with plastic stopper (one-sided)	46

Endoscopic Spine Surgery

BIPORTAL

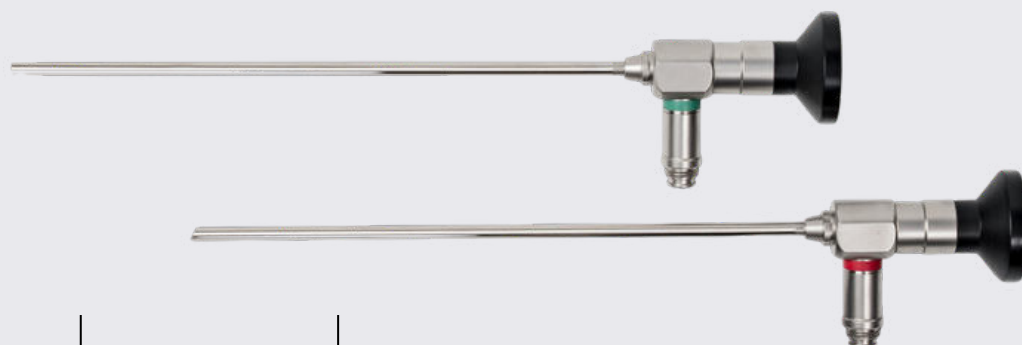
Article No.	Article Description	Page
A-100-751	Mighty Chisel <i>Straight, D 5.0 mm, length 120 mm</i>	44
A-100-752	Mighty Chisel <i>Left-bended, D 5.0 mm, length 120 mm</i>	44
A-100-753	Mighty Chisel <i>Right-bended, D 5.0 mm, length 120 mm</i>	44
A-100-754	Mighty Chisel <i>Up-bended, D 5.0 mm, length 120 mm</i>	44
A-100-781	Curette <i>Forward angled, oval spoon, 4.5x7 mm, WL 120 mm</i>	46
A-100-755	Double Ended Retractor, Ceramic Coated <i>5° and 15°</i>	47
A-100-756	Double Ended Retractor, Ceramic Coated <i>25° and 35°</i>	47
A-100-782	Muscle Detacher <i>T-Shape</i>	47
A-100-914	Aluminium Tray for UBE Stenosis	47

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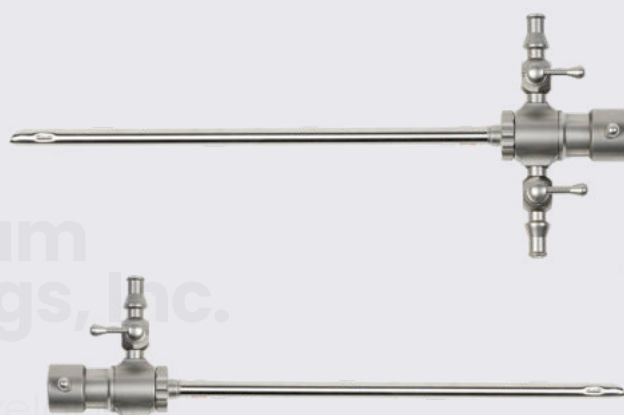
Endoscopic Spine Surgery

BIPORTAL



DISCSCOPE	Ø	Working length	Viewing angle
A-100-824	4.0 mm	175 mm	0°
A-100-825	4.0 mm	175 mm	30°

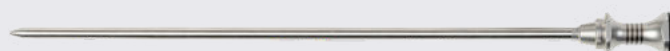
SHEATH SYSTEM	Ø	Stopcock
A-100-826	5.5 mm	2
A-100-934	5.5 mm	1



OBTURATOR FOR DISCSCOPE

A-100-827

D 5.5 mm, blunt, bayonet lock



LOCKABLE PROTECTOR SHEATH

A-100-801

Sheath OD 8.0 mm, ID 6.5 mm, WL 95 mm



Endoscopic Spine Surgery

BIPORTAL

Dilator	Inner-Ø	Outer-Ø	Working length
A-100-741	-	4.8 mm	195 mm
A-100-742	5.0 mm	7.0 mm	180 mm
A-100-743	7.0 mm	9.0 mm	165 mm
A-100-744	9.0 mm	11 mm	150 mm
A-100-745	11 mm	13 mm	135 mm
A-100-746	13 mm	15 mm	120 mm



Working Skid	Inner-Ø	Outer-Ø	Working length
A-100-794	9.0 mm	12 mm	50 mm
A-100-795	9.0 mm	12 mm	70 mm
A-100-796	9.0 mm	12 mm	90 mm
A-100-797	12 mm	15 mm	50 mm
A-100-798	12 mm	15 mm	70 mm
A-100-799	12 mm	15 mm	90 mm

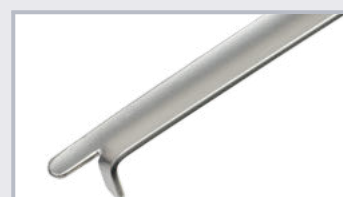
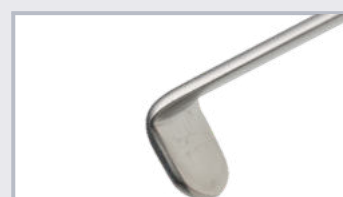
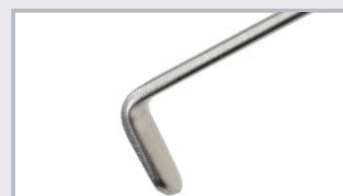


Endoscopic Spine Surgery

BIPORTAL



NERV ROOT RETRACTOR	Tip	Width	Working length
A-100-747	Edgefold narrow	4.0 mm	115 mm
A-100-748	Edgefold	8.0 mm	115 mm
A-100-749	Edgefold left	8.0 mm	115 mm
A-100-750	Edgefold right	8.0 mm	115 mm



Endoscopic Spine Surgery

BIPORTAL

KERRISON PUNCH UPCURVED

A-100-767

*Upcurved shaft, upwards cutting,
length 200 mm, width 2 mm*



KERRISON PUNCH DOWNWARDS CUTTING	Width	Degree	Length
A-100-836	1.0 mm	40°	200 mm
A-100-837	2.0 mm	40°	200 mm
A-100-812	3.0 mm	40°	200 mm
A-100-815	4.0 mm	40°	200 mm
A-100-838	5.0 mm	40°	200 mm
A-100-839	6.0 mm	40°	200 mm
A-100-840	1.0 mm	90°	200 mm
A-100-841	2.0 mm	90°	200 mm
A-100-813	3.0 mm	90°	200 mm
A-100-816	4.0 mm	90°	200 mm
A-100-842	5.0 mm	90°	200 mm
A-100-843	6.0 mm	90°	200 mm



Endoscopic Spine Surgery

BIPORTAL



KERRISON PUNCH UPWARDS CUTTING	Width	Degree	Length
A-100-828	1.0 mm	40°	200 mm
A-100-829	2.0 mm	40°	200 mm
A-100-768	3.0 mm	40°	200 mm
A-100-769	4.0 mm	40°	200 mm
A-100-830	5.0 mm	40°	200 mm
A-100-831	6.0 mm	40°	200 mm
A-100-832	1.0 mm	90°	200 mm
A-100-833	2.0 mm	90°	200 mm
A-100-811	3.0 mm	90°	200 mm
A-100-814	4.0 mm	90°	200 mm
A-100-834	5.0 mm	90°	200 mm
A-100-835	6.0 mm	90°	200 mm



Endoscopic Spine Surgery

BIPORTAL



RONGEUR	Alignment	Bide width	Length
A-100-770	Straight	3 x 10 mm	180 mm
A-100-793	Straight	1.5 x 10 mm	180 mm
A-100-771	Upwards Curved	1.5 x 10 mm	180 mm



ENDOSCOPIC KERRISON HANDLE

A-100-740

Endoscopic Kerrison Handle for rotatable Kerrisons



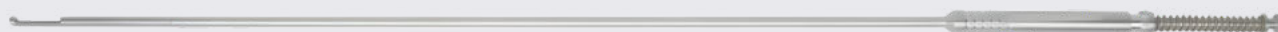
Endoscopic Spine Surgery

BIPORTAL

ENDOSCOPIC KERRISON PUNCHES

With integrated Luer-Lock cleaning channel.

All Kerrisons punches are also available with a ceramic coating for better performance and to prevent reflections.



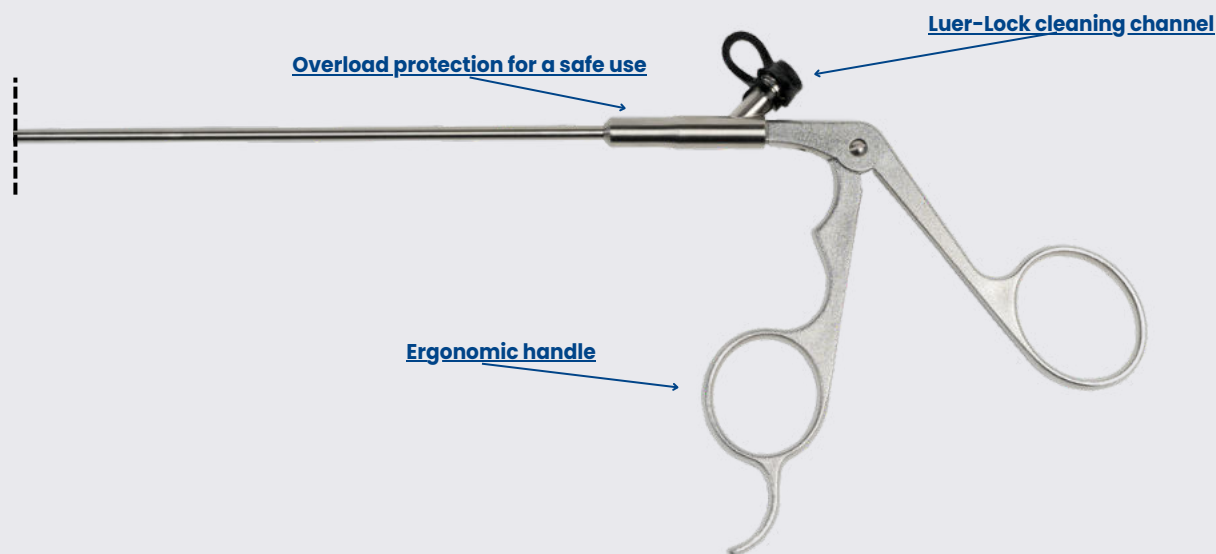
STANDARD	CERAMIC COATED	Ø	Degree	Working length
A-100-972	A-100-972-B	3.0 mm	40°	150 mm
A-100-785	A-100-785-B	3.5 mm	40°	150 mm
A-100-787	A-100-787-B	4.0 mm	40°	150 mm
A-100-772	A-100-772-B	5.0 mm	40°	150 mm
A-100-774	A-100-774-B	6.0 mm	40°	150 mm
A-100-973	A-100-973-B	3.0 mm	90°	150 mm
A-100-786	A-100-786-B	3.5 mm	90°	150 mm
A-100-788	A-100-788-B	4.0 mm	90°	150 mm
A-100-773	A-100-773-B	5.0 mm	90°	150 mm
A-100-775	A-100-775-B	6.0 mm	90°	150 mm



Endoscopic Spine Surgery

BIPORTAL

FORCEPS, PUNCHES, SCISSORS & SPOONS



CUP FORCEPS STRAIGHT JAW	Ø	Working length
A-100-595	2.0 mm	150 mm
A-100-802	4.0 mm	150 mm
A-100-761	5.0 mm	150 mm



MICRO SPOON STRAIGHT JAW	Ø	Working length
A-100-596	2.0 mm	150 mm



BLAKESLEY BIPOSY GRASPING FORCEPS	Ø	Working length
A-100-803	4.0 mm	150 mm
A-100-763	5.0 mm	150 mm



Endoscopic Spine Surgery

BIPORTAL

GRASPING FORCEPS STRAIGHT JAW	Ø	Working length
A-100-809	4.0 mm	150 mm
A-100-765	5.0 mm	150 mm



BIOPSY GRASPING FORCEPS	Jaw	Ø	Working length
A-100-810	Straight Jaw	4.0 mm	150 mm
A-100-762	Teethed with sharp Spoon	5.0 mm	150 mm



HOOK SCISSORS PUNCH STRAIGHT JAW	Ø	Working length
A-100-804	4.0 mm	150 mm
A-100-764	5.0 mm	150 mm



Endoscopic Spine Surgery

BIPORTAL

CHISELS, PROBES & ARROWHEAD KNIFE



CHISELS		Ø	Working length
A-100-776	BONE CHISEL BLUNT	4.0 mm	120 mm
A-100-777	BONE CHISEL	4.0 mm	120 mm
A-100-751	MIGHTY CHISEL STRAIGHT	5.0 mm	120 mm
A-100-752	MIGHTY CHISEL LEFT-BENDED	5.0 mm	120 mm
A-100-753	MIGHTY CHISEL RIGHT-BENDED	5.0 mm	120 mm
A-100-754	MIGHTY CHISEL UP-BENDED	5.0 mm	120 mm

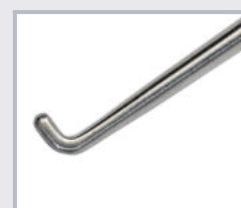


Endoscopic Spine Surgery

BIPORTAL



PROBES		Ø	Working length
A-100-778	HOOK PROBE	3.0 mm	150 mm
A-100-779	PROBE	3.0 mm	150 mm



ARROWHEAD KNIFE	Ø	Working length
A-100-784	5.0 mm	140 mm



SPINE HAMMER

A-100-547

Metal Hammer

black silicon handle with plastic stopper (both-sided)

OD 25 mm, WL 200 mm



A-100-057

Metal Hammer

blue silicon handle with plastic stopper (one-sided)

OD 30 mm, WL 240 mm



CURETTE OVAL SPOON	Alignment	Ø	Working length
A-100-817	Straight	3.0 x 5.0 mm	120 mm
A-100-818	Straight	4.5 x 7.0 mm	120 mm
A-100-819	Straight	6.0 x 9.0 mm	120 mm
A-100-820	Forward angled	3.0 x 5.0 mm	120 mm
A-100-781	Forward angled	4.5 x 7.0 mm	120 mm
A-100-821	Forward angled	6.0 x 9.0 mm	120 mm
A-100-822	Backward angled	3.0 x 5.0 mm	120 mm
A-100-823	Boomerang	3.0 x 5.0 mm	120 mm



Endoscopic Spine Surgery

BIPORTAL

RETRACTOR



STANDARD	CERAMIC COATED	Degree	Length
A-100-755	A-100-755-B	5° and 15°	305 mm
A-100-756	A-00-756-B	25° and 35°	305 mm

MUSCLE DETACHER

A-100-782

T-Shape



TRAY

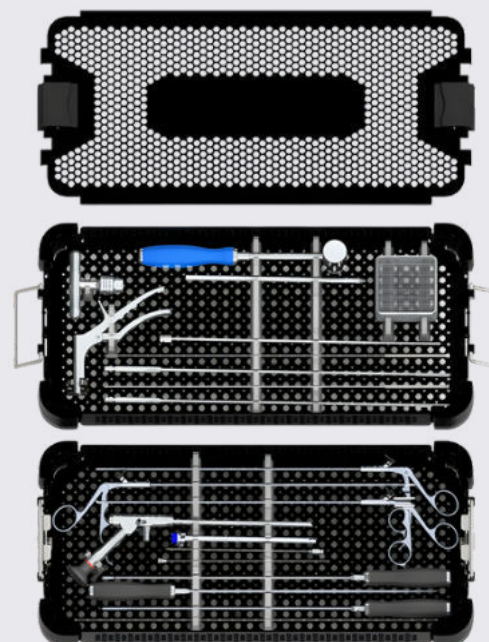
Available for all sets recommended by us OR customised to your personal requirements.

For a smaller selection of instruments, there is the non-stackable tray with one layer.

For a larger selection of instruments, there is the stackable tray. Multiple layers can be stacked on top of each other using a simple mechanism.

The modular trays are available in aluminium or stainless steel.

	Description
A-100-911	Aluminium Tray for UBE DISC HERNIATION
A-100-914	Aluminium Tray for UBE STENOSIS
A-100-870	Modular Tray stackable, Aluminium
A-100-871	Modular Tray non-stackable, Aluminium
A-100-882	Modular Tray stackable, Stainless steel
A-100-883	Modular Tray non-stackable, Stainless steel





ENDOSCOPIC SPINE SURGERY

BIPOLAR SYSTEM

PRECISION | ACCESS | CONTROL

BIPOLAR HANDLE

Clamp System

A-001-210



BIPOLAR SHAFT

For clamp system



	Ø	Working length
A-001-374	2.3 mm	260 mm
A-001-375	2.3 mm	330 mm
A-001-211	2.3 mm	378 mm

BIPOLAR ELECTRODE (SINGLE USE)

Sterilisable up to 70°C, blue

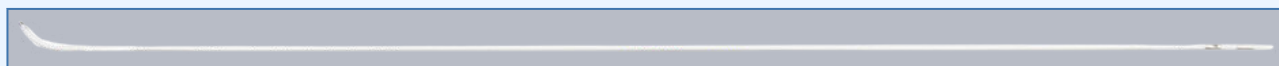


	Ø	Working length
A-001-378	2.3 mm	260 mm
A-001-379	2.3 mm	330 mm
A-001-212	2.3 mm	378 mm



BIPOLAR ELECTRODE (REUSABLE)

Sterilisable up to 140°C, white



	Ø	Working length
A-001-380	2.3 mm	260 mm
A-001-381	2.3 mm	330 mm
A-001-285	2.3 mm	378 mm



BIPOLAR SYSTEM

BIPOLAR HANDLE

Clip System

A-001-307



BIPOLAR SHAFT

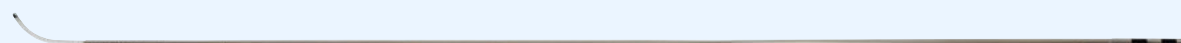
For clip system



	Ø	Working length
A-001-376	3.0 mm	260 mm
A-001-377	3.0 mm	330 mm
A-001-306	3.0 mm	378 mm

BIPOLAR ELECTRODE (REUSABLE)

For autoclave max. 140°C, white



	Ø	Working length
A-001-382	2.5 mm	260 mm
A-001-383	2.5 mm	330 mm
A-001-305	2.5 mm	378 mm





ENDOSCOPIC SPINE SURGERY

DEVICES

PRECISION | ACCESS | CONTROL

Endoscopic Spine Surgery DEVICES

A-001-421

4K Medical Monitor

- 4K resolution (3840*2106)
- Color range BT.2020

A-001-391

Generator ARC 100

- Compact solution
- With 100 Watt output power in all modes
- Combines power with intuitive operation
- For monopolar and bipolar electrosurgery
- Maximum functionality with minimum size

A-001-422

Camera Control Unit

- High-quality 4K image processing technology
- Integrated photo and video recording function
- Intelligent exposure and light source control
- CF level safety certification

A-001-424

Cold Light Source

- Intelligent brightness control
- LED technology
- Long service light, high stability
- High colour rendition

A-100-426

Spine Irrigation Pump

- Automatic decompression during work interruption
- Intuitive to use and highly reliable, for a clear view
- Fully automatic response, no pressure adjustment required



A-100-633

High-Speed Motor System with Handpiece

- Engine speed range from 300 – 80'000 rpm
- Fine adjustment of the integrated peristaltic pump to cool the instrument and prevent tissue damage
- 3 – 10 individually memorisable programmes
- Multifunctional pedal

A-001-423

Camera Head

- 4K image sensor
- High frame rate (60fps)
- Ergonomic design
- IPX7 waterproof design

A-001-420

Trolley

- High Quality steel structure, stable and reliable
- Ergonomic anti-tipping design
- Ultra-quiet casters

A-001-427

BOWA ARC

- Flexible configurable (see page 3)
- Simple operator guidance via touch control
- Programme memory for 300 discipline-specific unit settings

GENERATORS

A-001-391

BOWA ARC 100



A-001-427-I

BOWA ARC Typ I

1 monopolar, 1 bipolar



A-001-427-II

BOWA ARC Typ II

2 monopolar, 1 bipolar



A-001-427-III

BOWA ARC Typ III

2 monopolar, 1 bipolar



A-001-427-IV

BOWA ARC Typ IV

1 monopolar, 2 bipolar



A-001-427-V

BOWA ARC Typ V

2 monopolar, 2 bipolar



Endoscopic Spine Surgery DEVICES

HF-CABLES BIPOLAR (BOWA)

High-quality manufacturing and extreme durability

Unit connecting		Length		Instrument connecting
Valleylab Flat plug, straight autobipolar		3 m	A-100-462	
Erbe Flat plug, straight 8/4 mm		4 m	A-100-457	
Erbe International Flat plug, straight, 2-Pin, 22 mm		4.5 m	A-100-461	
Martin Flat plug, straight 6/2 mm		4.5 m	A-100-459	
International Flat plug, straight 2-Pin, 28 mm		4.5 m	A-100-460	
BOWA Comfort Flat plug, straight 3-Pin		4.5 m	A-100-473	

HF-CABLES BIPOLAR (STANDARD)

Unit connecting		Length		Instrument connecting
Valleylab <i>Flat plug, straight autobipolar</i>		3 m	A-100-463	
		5 m	A-100-464	
Erbe VIO/ICC/ACC, Storz <i>Flat plug, straight 8/4 mm</i>		3 m	A-100-465	
		5 m	A-100-466	
Martin, Berchtold, Integra <i>Flat plug, straight 6/2 mm</i>		3 m	A-100-467	
		5 m	A-100-468	
Ellman <i>Flat plug, straight</i>		3 m	A-100-469	
		5 m	A-100-470	
Uniflex <i>Flat plug, straight</i>		3 m	A-100-471	
		5 m	A-100-472	
US-Models, 2 Pol <i>Flat plug, straight</i>		3 m	A-100-473	
		5 m	A-100-474	

Endoscopic Spine Surgery DEVICES

SHAVER BURRS

High-speed shaver burrs for speeds up to 80,000 rpm

Recommended for STENOSIS	
A-100-695	Support sleeve without protector <i>D 4.0 mm</i>
A-100-696	Spinal burr diamond <i>Round, D 5.0 mm, WL 186 mm</i>
A-100-697	Spinal burr tungsten carbide <i>Round, D 5.0 mm, WL 186 mm</i>
A-100-698	Carbide milling cutter <i>Conical, D 5.0 mm, WL 191 mm</i>



Recommended for INTERLAMINAR	
A-100-699	Support sleeve without protector <i>D 4.0 mm</i>
A-100-700	Support sleeve with distal protector <i>D 4.0 mm</i>
A-100-701	Spinal burr tungsten carbide <i>Round, D 3.5 mm, WL 231 mm</i>
A-100-702	Spinal burr diamond, <i>Round, D 3.7 mm, WL 233 mm</i>



Endoscopic Spine Surgery DEVICES

Recommended for TRANSFORAMINAL	
A-100-703	Support sleeve without protector <i>D 4.0 mm</i>
A-100-704	Support sleeve with distal protector <i>D 4.0 mm</i>
A-100-705	Support sleeve with sloping protector <i>D 4.0 mm</i>
A-100-706	Spinal burr tungsten carbide <i>D 3.5 mm, WL 220 mm</i>
A-100-707	Spinal burr diamond <i>Round, D 3.7 mm, WL 216 mm</i>
A-100-708	Spinal burr tungsten carbide <i>Round, D 4.0 mm, WL 215 mm</i>



Endoscopic Spine Surgery DEVICES

ACCESSORIES

A-001-425

Cold Light Cable

Various connections and lengths available



A-001-428

Double Pedal Foot Switch with Switch and Clip

Cable 4 m, for BOWA ARC, ARC 400, ARC 350, ARC 303 and ARC 250



A-001-429

Single Pedal Foot Switch with Switch

Cable 4 m, for BOWA ARC, BOWA ARC 100, ARC 400, ARC 350, ARC 303, ARC 250



A-100-800

Adapter for Bipolar Cable



A-001-515

Neutral Electrode (Reusable)

250 x 150 mm, various connections



A-001-516

Neutral Electrode (Single Use)

110 cm², with or without cable



ACCESSORIES

A-100-919

Arm System with Endoscope Holder

Clamping range: D 2.7 mm- 10 mm



Afsuham
Holdings, Inc.

Developed
and Made
in Germany
DIRECT from the manufacturer.

A-100-920

Clamp Base

For attaching the holding arm to the
operating table, insulated up to 4.5 kV





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