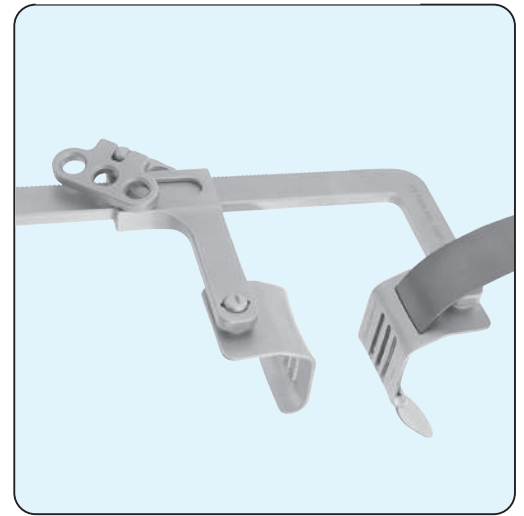
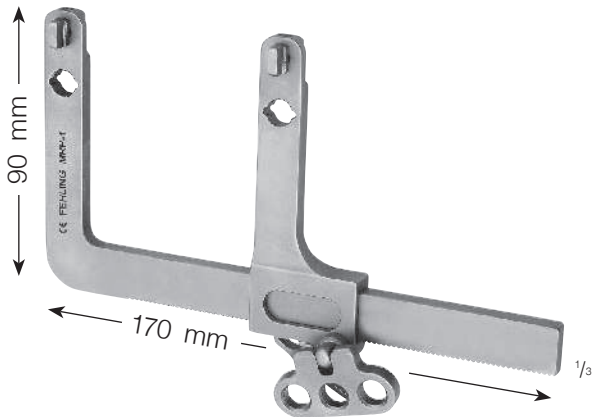


exemplary configuration
Konfigurationsbeispiel

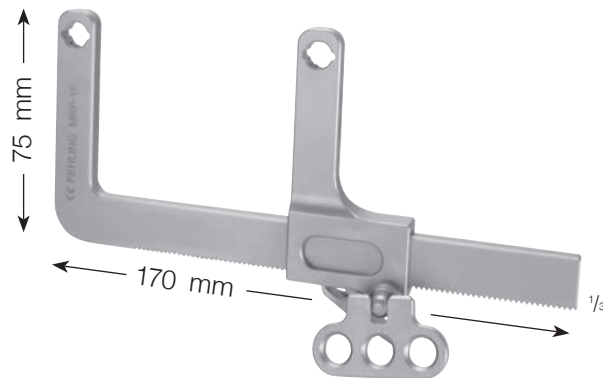


exemplary configuration
Konfigurationsbeispiel



INTERCOSTAL RETRACTOR
INTERCOSTALSPREIZER

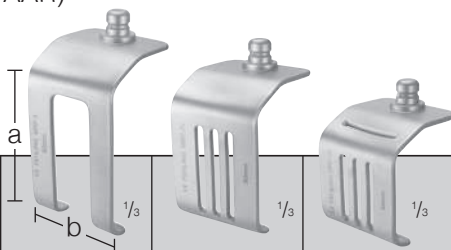
MRP-1



INTERCOSTAL RETRACTOR SHORT ARM
INTERCOSTALSPREIZER KURZARM

MRP-1F

RETRACTING BLADES (PAIR)
HALTEBLÄTTER (PAAR)



BLADE SIZE BLATTGRÖSSE a x b	MRP-2	MRP-2V	MRP-2F
40 x 35 mm	MRP-2	MRP-2V	MRP-2F
50 x 35 mm	MRP-3	MRP-3V	MRP-3F
60 x 35 mm	MRP-4	MRP-4V	MRP-4F
70 x 35 mm	MRO-7	MRO-7V	
80 x 35 mm		MRQ-7	
90 x 35 mm		MRQ-8	
100 x 35 mm		MRQ-9	



CERAMO® SUPERPLAST
SPATULA
SPATEL
24 x 250 mm
EOJ-7

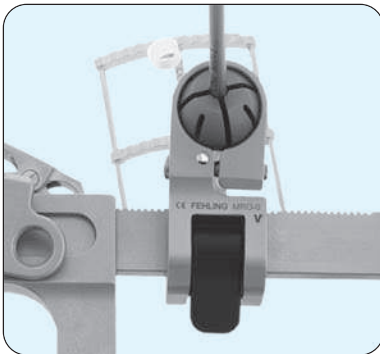
MVR RETRACTOR ACCESSORIES
MKR SPREIZER ZUBEHÖR



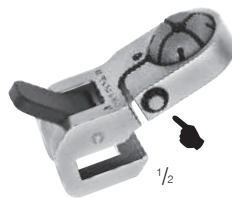
BLADE GUIDE (Ø4)
HAKENFÜHRUNG (Ø4)
220 mm

MRN-3

RETRACTION OF THE AORTIC ROOF
RETRAKTION DES VORHOFDACHS



*exemplary configuration
Konfigurationsbeispiel*



BALL ADAPTER (Ø4)
KUGELADAPTER (Ø4)

MRO-0V*

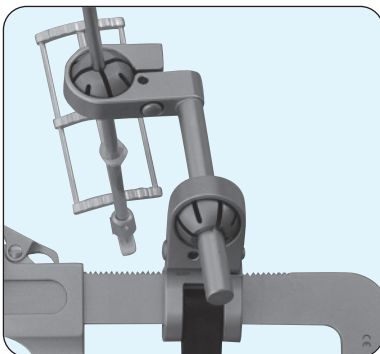
* with wing screw: MRO-0
* mit Flügelschraube: MRO-0

Inside screw prevents jammed sutures and is space saving; cardan screwdriver LMT-4 required for tightening.

Innenliegende Schraube verhindert Einklemmen von Fäden und spart Platz; Kardan Schraubendreher LMT-4 zum Anziehen erforderlich.

For adapters with wing screw no screwdriver required.

Für Adapter mit Flügelschraube kein Schraubendreher erforderlich.



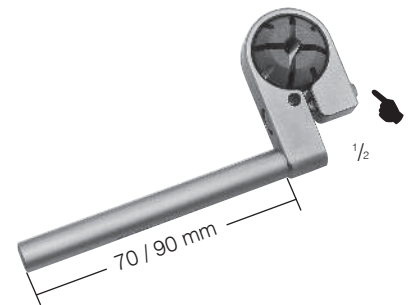
*exemplary configuration
Konfigurationsbeispiel*



BALL ADAPTER (Ø8) FOR MRR-2V/L
KUGELADAPTER (Ø8) FÜR MRR-2V/L

MRR-1V*

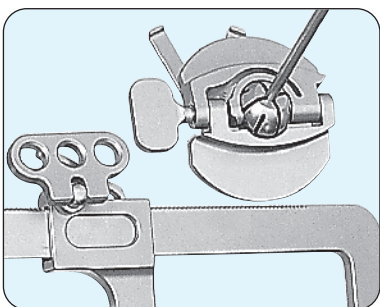
* with wing screw: MRR-1
* mit Flügelschraube: MRR-1



BALL ADAPTER (Ø4)
WITH DISTANCE ELEVATOR
KUGELADAPTER (Ø4)
MIT DISTANZHEBEL

70 mm	90 mm
MRR-2V*	MRR-2L

* with wing screw: MRR-2
* mit Flügelschraube: MRR-2



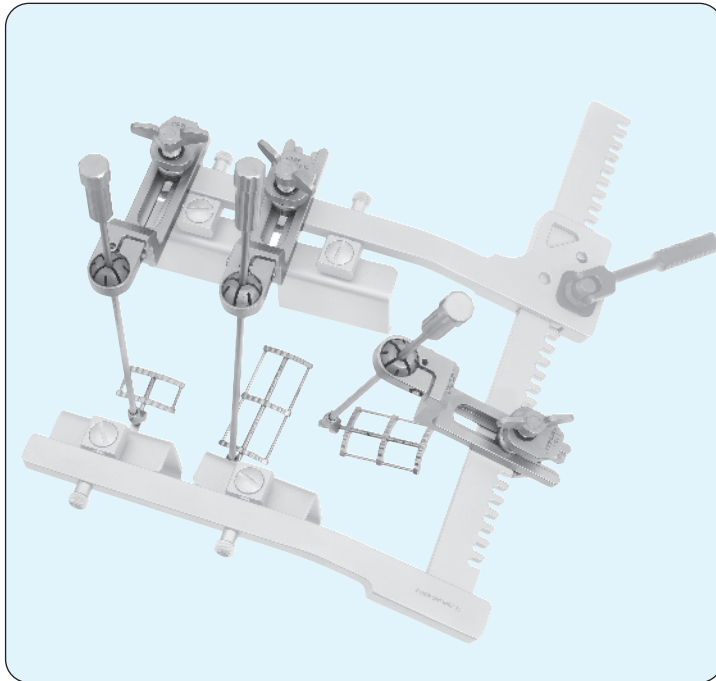
*exemplary configuration
Konfigurationsbeispiel*



FIXATION DEVICE FOR MRN-3 (Ø4)
(FOR EXTERNAL STAB INCISION)
FIXIERVORRICHTUNG FÜR MRN-3 (Ø4)
(FÜR SEPARATE STICHINZISION)

MRO-9*

*with inside screw MRO-9V
*mit innenliegender Schraube MRO-9V

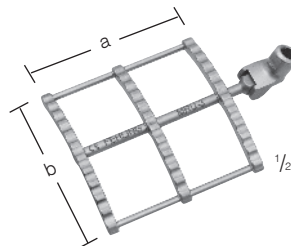


exemplary configuration
Konfigurationsbeispiel

Inside screw prevents jammed sutures and is space saving; cardan screwdriver LMT-4 required for tightening.
Innenliegende Schraube verhindert Einklemmen von Fäden und spart Platz; Kardan Schraubendreher LMT-4 zum Anziehen erforderlich.

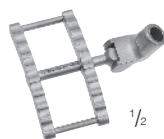


BLADE GUIDE (Ø4)
HAKENFÜHRUNG (Ø4)
220 mm
MRN-3

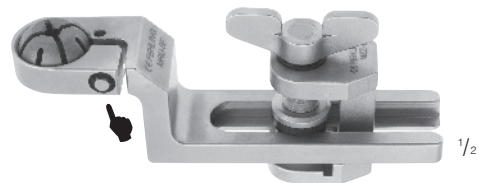


ATRIAL BLADE
VORHOFBÜGEL

a x b	
45 x 30 mm	MRU-1
60 x 30 mm	MRU-2
45 x 45 mm	MRU-3
60 x 45 mm	MRU-4



ATRIAL BLADE
FOR TRICUSPIDAL VALVE
VORHOFBLATT
FÜR TRIKUSPIDALKLAPPE
18 x 35 mm
MRU-5

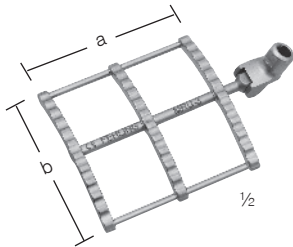


BALL JOINT ADAPTER BAYONET (Ø 4)*
LENGTH AND HEIGHT VARIABLE
+ CLAMPING ELEMENT
KUGELADAPTER, BAYONETT (Ø 4)*
LÄNGE UND HÖHE VARIABEL
+ BEFESTIGUNGSELEMENT

MRU-8F + MZZ-1Q

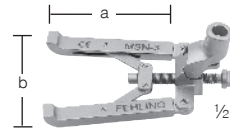
* adaptable to most sternal retractors
verwendbar für die meisten Sternumspreizer

MVR RETRACTOR ACCESSORIES
MKR SPREIZER ZUBEHÖR



ATRIAL BLADE
VORHOFBÜGEL

a x b	
30 x 30 mm	MRX-2
30 x 45 mm	MRX-3
45 x 30 mm	MRU-1
60 x 30 mm	MRU-2
45 x 45 mm	MRU-3
60 x 45 mm	MRU-4



ATRIAL RETRACTOR, EXPANDABLE*
VORHOFGABEL, AUFSPREIZBAR*

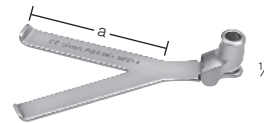
a x b	
35 x 25 mm	MSN-2
55 x 30 mm	MSN-3

*cardan screw driver LMT-4 required
Kardanschraubendreher LMT-4 erforderlich



ATRIAL BLADE
VORHOFBLATT

a x b	
30 x 8 mm	MRN-4
40 x 8 mm	MRN-5
50 x 8 mm	MRN-6



ATRIAL HOOK
VORHOFGABEL

- a -	
30 mm	MRO-2
40 mm	MRO-3
50 mm	MRO-4
60 mm	MRO-5
70 mm	MRO-6

GUIDING CLAMPS FOR THE INSERTION OF ATRIAL BLADES / SEPTUM HOLDERS
FÜHRUNGSZANGEN ZUM EINSpanNEN VON VORHOFBLÄTTERN / SEPTUMNIEDERHALTERN



GUIDING FORCEPS
FÜHRUNGSZANGE
260 mm

MRN-7










GUIDING CLAMP
FÜHRUNGSKLEMME

MRU-9






CERAMO® HCR

FORCEPS / PINZETTEN

 1 x 10 mm	 3 x 15 mm	 1,5 x 11 mm	 1,5 x 11 mm	 2,8 x 15 mm	 2,8 x 15 mm	 350 mm		
SUTURE NAHT	VALVE KLAPPE	NON-TRAUMATIC ATRAUMATISCH				RUSSIAN RUSSISCH		
345 mm	350 mm	280 mm	350 mm	350 mm	280 mm	350 mm	350 mm	350 mm
MRA-5	MRA-0 MRQ-3 ¹⁾	MSO-6	MRG-6	MRG-7	MRN-0	MRA-3	MRA-4	MRQ-5













1) WITH LOCK
MIT SPERRE

NEEDLE HOLDERS / NADELHALTER (WITH LOCK / MIT SPERRE)

 2 x 10 mm max. 5x0	 3 x 10 mm max. 3x0	 3 x 10 mm max. 2x0	 3 x 10 mm max. 2x0	 1,5 mm max. 5x0			
TCM		TC		TC RYDER			
340 mm	280 mm	340 mm	280 mm	340 mm	280 mm	350 mm	350 mm
MRB-2	MRG-8	MRB-1	MRT-6	MRG-9	MSO-5	MRG-2	MSO-1

**max. needle size
max. Nadelgröße**

SCISSORS / SCHEREN

								
VALVE KLAPPE								
350 mm	350 mm	350 mm	280 mm	350 mm	450 mm	350 mm	350 mm	350 mm
MRA-7	MRT-2	MRT-3	MSO-3	MRD-7	MRD-7L	MSO-4	MRT-5	MSO-8
 45° BLUNT/STUMPF	 45°	 90°						
VASCULAR GEFÄSS			DISSECTING PRÄPARATION					
345 mm	345 mm	335 mm	280 mm	350 mm				
MRA-8B	MRA-8	MRA-9	MRQ-0	MRA-6				

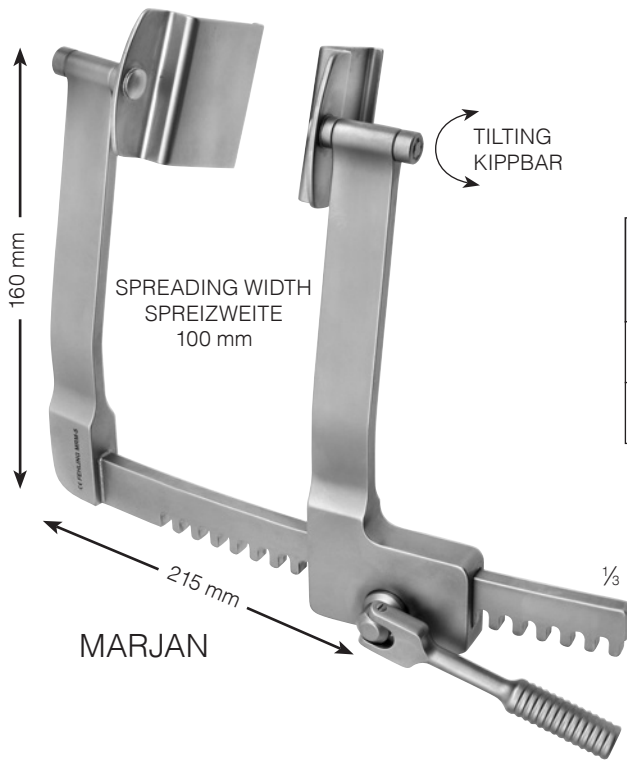
SHAFT DIAMETER = 5.0 mm
SCHAFTDURCHMESSER = 5,0 mm



CERAMO®

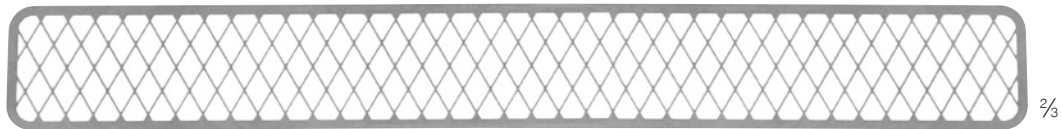


JAW WIDTH MAULBREITE mm	LENGTH LÄNGE mm				
		FERRIS-SMITH	FERRIS-SMITH X	FERRIS-SMITH	FERRIS-SMITH X
2,0	180	TOC-0	TOC-0X	TOF-0	TOF-0X
	200	TOG-0	TOG-0X	TOH-0	TOH-0X
	250	TOI-0	TOI-0X	TOJ-0	TOJ-0X
	300	TOK-0	TOK-0X	TON-0	TON-0X
2,5	200	TOG-7	TOG-7X	–	–
3,0	180	TOC-1	TOC-1X	TOF-1	TOF-1X
	200	TOG-1	TOG-1X	TOH-1	TOH-1X
	250	TOI-1	TOI-1X	TOJ-1	TOJ-1X
	300	TOK-1	TOK-1X	TON-1	TON-1X
	400	TOO-3	TOO-3X	TOO-8	TOO-8X
3,5	200	TOG-8	TOG-8X	–	–
4,0	180	TOC-2	TOC-2X	TOF-2	TOF-2X
	200	TOG-2	TOG-2X	TOH-2	TOH-2X
	250	TOI-2	TOI-2X	TOJ-2	TOJ-2X
	300	TOK-2	TOK-2X	TON-2	TON-2X
	400	TOO-4	TOO-4X	TOO-9	TOO-9X
5,0	180	TOC-3	TOC-3X	TOF-3	TOF-3X
	200	TOG-3	TOG-3X	TOH-3	TOH-3X
	250	TOI-3	TOI-3X	TOJ-3	TOJ-3X
	300	TOK-3	TOK-3X	TON-3	TON-3X
	400	TOO-5	TOO-5X	–	–
6,0	180	TOC-4	TOC-4X	TOF-4	TOF-4X
	200	TOG-4	TOG-4X	TOH-4	TOH-4X
	250	TOI-4	TOI-4X	TOJ-4	TOJ-4X
	300	TOK-4	TOK-4X	TON-4	TON-4X
7,0	180	TOC-5	TOC-5X	TOF-5	TOF-5X
	200	TOG-5	TOG-5X	TOH-5	TOH-5X
	250	TOI-5	TOI-5X	TOJ-5	TOJ-5X
	300	TOK-5	TOK-5X	TON-5	TON-5X
8,0	180	TOC-6	TOC-6X	TOF-6	TOF-6X
	200	TOG-6	TOG-6X	TOH-6	TOH-6X
	250	TOI-6	TOI-6X	TOJ-6	TOJ-6X
	300	TOK-6	TOK-6X	TON-6	TON-6X



FOR PARTIAL STERNOTOMY
FÜR PARTIELLE STERNOTOMIE

BLADE SIZE BLATTGRÖSSE a x b	
35 x 50 mm	MRM-5
45 x 50 mm	MRM-6



SUPERFLEX
SOFT TISSUE RETRACTOR
WEICHGEWEBERETRAKTOR
200 x 25 mm


MTI-0





STERILISATION AND STORAGE TRAY FOR MTI-0
STERILISIER- UND LAGERSIEB FÜR MTI-0
220 x 51,2 x 19,5 mm


MTK-0


CERAMO® HCR





	
5 x 30 mm	
NON-TRAUMATIC GRASPING FORCEPS ATRAUMATISCHE ORGANFASSZANGE	
370 mm	
MRL-8 MRL-8L ¹⁾	

	
25°	
KNOT PUSHER KNOTENSCHIEBER	
280 mm	340 mm
MRQ-2	MRB-6 MRB-6B ¹⁾


NO CERAMO® KEIN CERAMO®	
	
CLIP APPLIER ²⁾ CLIPANLEGEZANGE	
370 mm	370 mm
SMALL	MEDIUM
MRG-3T	MRG-4T





	
1 x 7 mm	
NERV HOOK NERVHAKEN	
280 mm	340 mm
MRQ-1	MRB-4

	
10 mm	
VALVE INSPECTOR KLAPPENPRÜFINSTR.	
350 mm	
MRL-2	

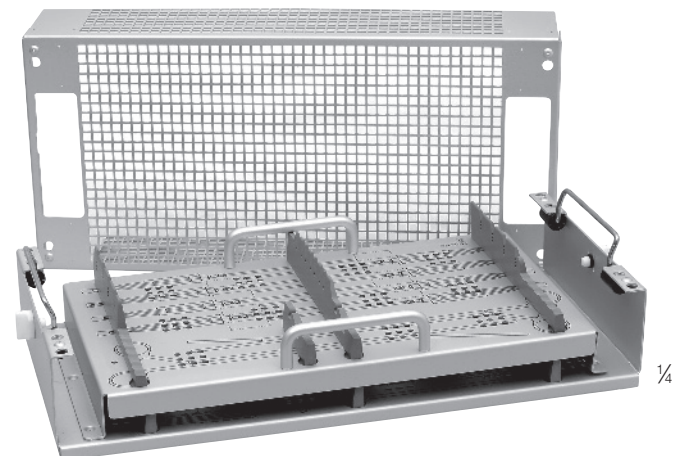

SCALPEL HANDLE ³⁾ SKALPELLGRIFF
350 mm
MRL-4


PEEK
KNOT PUSHER KNOTENSCHIEBER
340 mm
MRK-9P


MAGNETIC FINDER MAGNETSTAB
350 mm
MRL-5


MIRROR SPIEGEL
360 mm
MRQ-6

3) FOR BEAVER BLADES
FÜR BEAVER MESSER



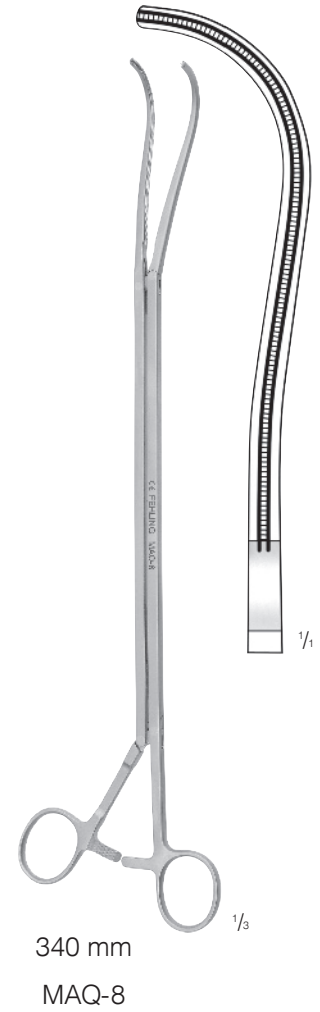
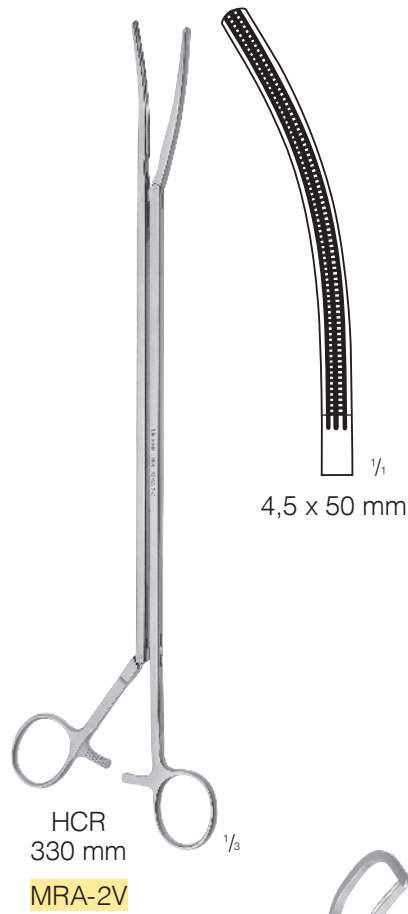
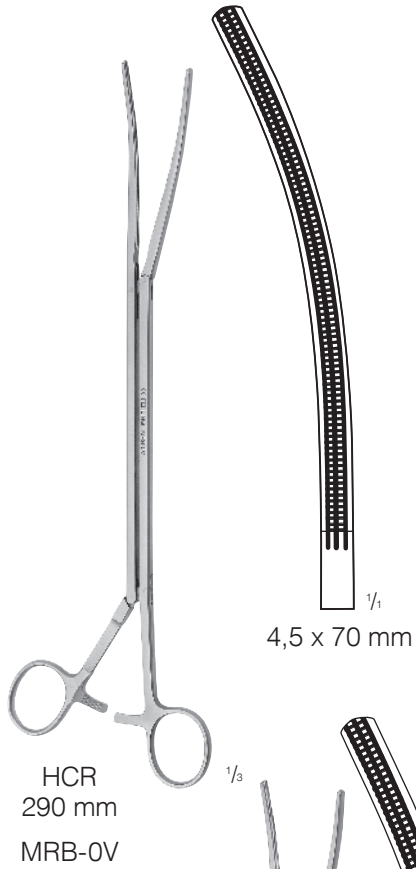
TRAY FOR HCR INSTRUMENTS
CONTAINER FÜR HCR-INSTRUMENTE
550 x 250 x 100 mm

MRC-9

1) WITH LOCK
MIT SPERRE

2) FOR / FÜR
ETHICON + HORIZON CLIPS

NON-TRAUMATIC FORCEPS
ATRAUMATISCHE KLEMMEN





TC WIRE TWISTING FORCEPS, STRONG
TC DRAHTSPANNZANGE, STARK
180 mm
KAJ-5



TC WIRE CUTTING FORCEPS
TC DRAHTKNEIFZANGE
175 mm
LAF-1








STERNUMWIRE CUTTER
STERNUMDRAHTZANGE
155 mm
LGJ-5

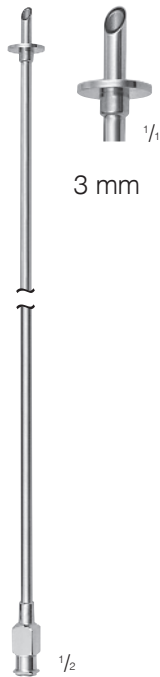


AORTIC DEAIRING CANNULA
AORTEN-ENTLÜFTUNGSKANÜLE
MBR-2

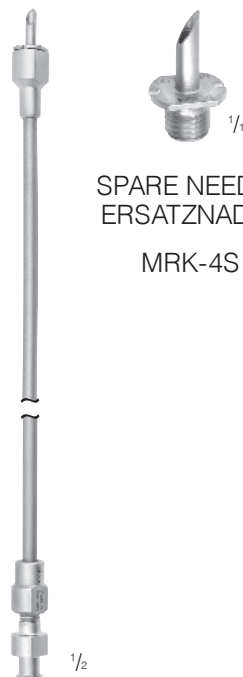


SUTURE HOOK
FADENFÄNGER

	 1/4 1,2 mm	 1/4 1,5 mm	 1/4 2,0 mm	 1/4 2,5 mm	 1/4 3,0 mm
120 mm	–	KAA-5	–	–	–
150 mm	–	KCC-1	–	–	–
200 mm	KAB-0	–	–	–	–
220 mm	–	–	–	KCB-8	–
260 mm	KAA-4	KAA-6	KAA-7	KCA-7	KAA-8
280 mm	–	–	–	KCB-9	–



CARDIOPLEGIA CANNULA
KARDIOPLEGIEKANÜLE
270 mm
MRL-0



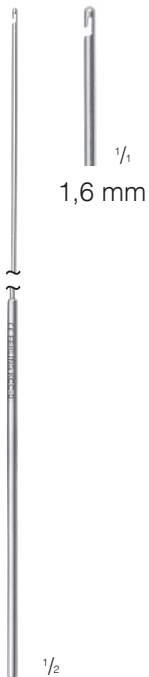
SPARE NEEDLE
ERSATZNADEL
MRK-4S

CARDIOPLEGIA CANNULA*
KARDIOPLEGIEKANÜLE*
270 mm
MRK-4

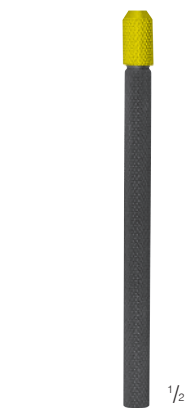
* detachable LL-Adapter
* LL-Anschluss abnehmbar



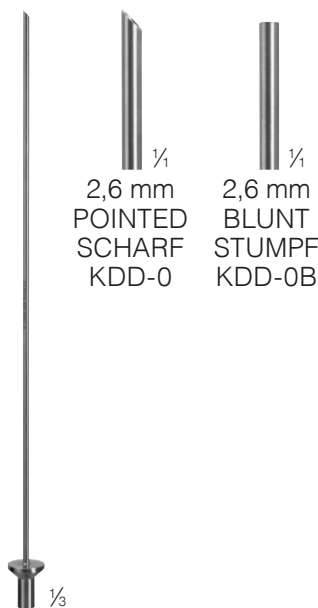
WRENCH FOR
DETACHABLE LL-ADAPTER
SCHLÜSSEL FÜR
ABNEHMBAREN LL-ANSCHLUSS
MRK-6



SUTURE HOOK
FADENFÄNGER
350 mm
KCC-0



CERAMO®
HANDLE FOR KCC-0
GRIFF FÜR KCC-0
110 mm
ABB-1



TROCAR SLEEVE
FOR KCC-0
TROKARHÜLSE
FÜR KCC-0
240 mm



SUMP ASPIRATOR*
SUMPFSAUGER*
270 mm
MRK-5

* detachable LL-Adapter
* LL-Anschluss abnehmbar



YANKAUER SUCTION TUBE
YANKAUER SAUGROHR
285 mm
HAA-4



VALVULAR SUCTION TUBE
SAUGER FÜR KLAPPENCHIRURGIE



CERAMO®
SUCTION CANNULA FOR
VALVE DECALCIFICATION
ENTKALKUNGSSAUGER
240 mm
MNF-5



HLM-ASPIRATOR
HLM-SAUGER
280 mm
MEL-7

300 mm	350 mm*
MNO-0	MNO-8

* particularly for MICS MVR
speziell für MICS MKR/MKE



Fehling Surgical Instruments, Inc.
509 Broadstone Lane
Acworth, GA 30101
770 794-0111
770 794-0122
1-800-FEHLING
info@fehlingsurgical.com
www.fehlingsurgical.com

Fehling CERAMO[®] Surgical Instruments Features & Benefits:

CERAMO[®] Features:

- **Ultra hard:** results in outstanding wear resistance.
- **Inherent lubricity:** substantially reduces friction and prevents galling.
- **Very dense:** provides a non-stick surface for an easy to clean instrument that does not stain.
- **Highly inert:** will not corrode and has excellent chemical resistance.
- **CERAMO[®] coating is a molecular bond:** it does not blister, flake or chip.
- **Dark color surface:** reduces reflective glare and enhances depth perception of the surgeon.

CERAMO[®] Benefits:

- **Reduction of abrasive wear:** Surgical instruments with surfaces that are subject to abrasive wear benefit the most from a CERAMO[®] coating. Cutting edges of scissors, kerrisons, rongeurs, curettes, etc. remain sharp for an extended time. CERAMO[®] protects the jaws of needleholders and forceps. Surfaces like atraumatic DeBakey or tungsten-carbide-melt are improved and remain intact.
- **Improvement of hygiene:** The smooth, dense structure of CERAMO[®] coating reduces the risk of contamination by germs and toxins. Since CERAMO[®] coating is applied while the instruments are disassembled, all components of an instrument are completely covered by CERAMO[®]. The outstanding chemical inactivity of CERAMO[®] surfaces practically avoids chemical reactions, reduces sticking and improves the cleaning. CERAMO[®] does not require any special cleaning / sterilization procedures.
- **Reduction of reflective glare:** The surgeon's sight is improved because the dark color of CERAMO[®] coated instruments does not reflect the surgical lights like stainless instruments, therefore influencing advantageously the quality of surgical work. Furthermore the perception of how deep an instrument is in the wound is enhanced with the sharp contrast between the CERAMO[®] instrument and tissue / bone.
- **Optimal grip with CERAMO[®] / PLASMA forceps / needleholders:** Micro needleholders and forceps feature a tungsten-carbide-melt surface in the jaws. On top of this surface, however, we have the CERAMO[®] coating. With this combination the problem of "rotating needles" (size 7.0 and smaller) in the jaws of the needleholder under regular conditions is solved, even if grabbed at the very distal end. With CERAMO[®] forceps the surgeon can grasp tissue, sutures, etc. with a secure grip.
- **Improvement of economy:** The fact that CERAMO[®] coated instruments have a prolonged life of at least 6 times that of conventional instruments accounts for considerable savings in the hospitals. Cost of maintenance / repair is drastically reduced. Replacement instruments / back-ups for instruments out of service are not necessary. Due to the enhanced performance, surgery time is shortened, resulting in savings in O.R. use, time and personnel. Further costs avoided are instrument-related surgical complications, subsequent surgery and indemnification.