

FEHLING...

... THE DIFFERENCE

2

SPREADING AND
RETRACTING
INSTRUMENTS

INSTRUMENTE
ZUM SPREIZEN
UND HALTEN



FEHLING INSTRUMENTS

Hanauer Landstraße 7A · 63791 Karlstein/Germany · www.fehling-instruments.de



+49 (0) 61 88 - 95 74.40

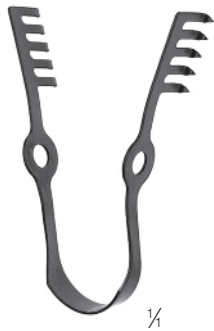


+49 (0) 61 88 - 95 74.45



info@fehling-instruments.de

CERAMO® SUPERFLEX



PRESSURE SPREIZDRUCK	
0,6 N	MNE-2
1,2 N	MNE-1



PRESSURE SPREIZDRUCK	
0,6 N	MNE-3

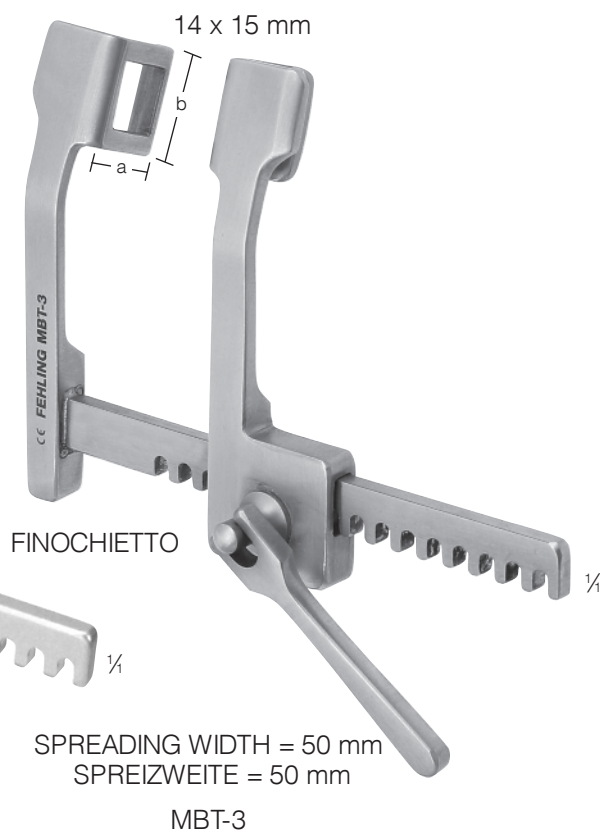
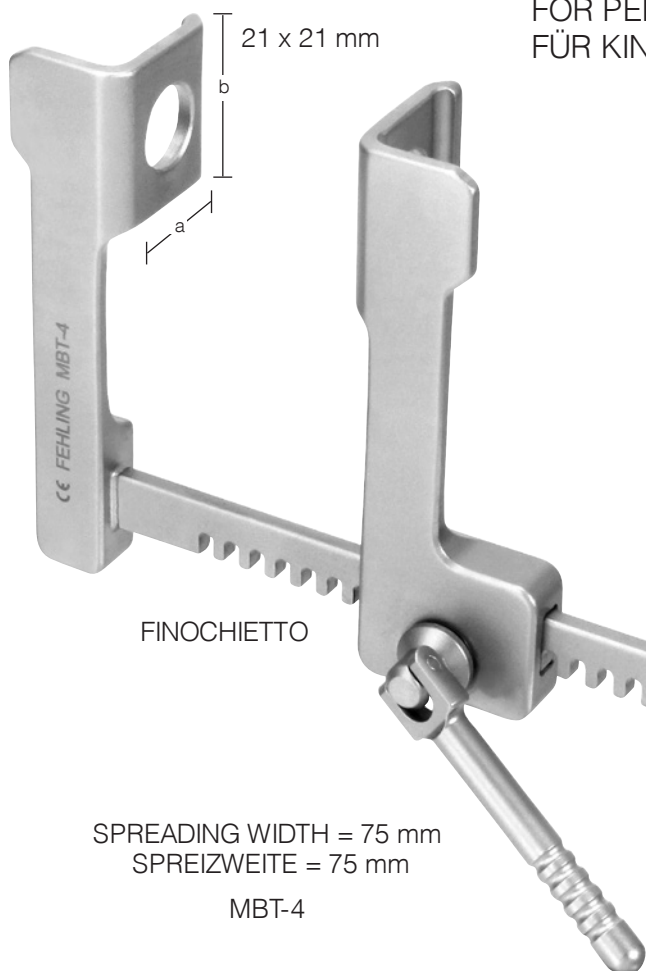


PRESSURE SPREIZDRUCK	
0,6 N	MNE-4

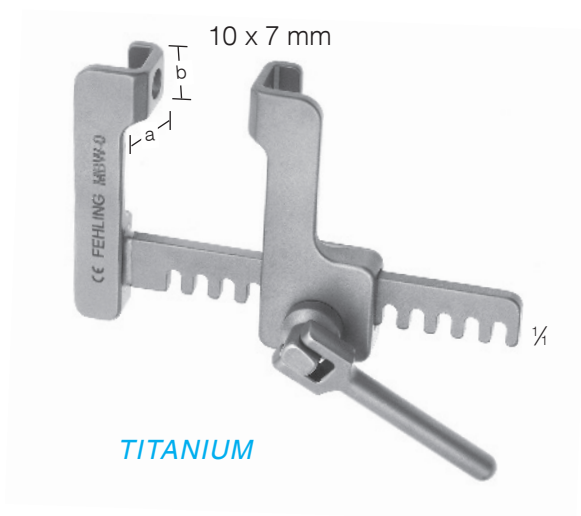
SUPERFLEX instruments are made of shape-memory metal. These instruments are super-elastic in normal O.R. temperatures. Their shape conforms to soft external pressure, yet the instruments regain their normal shape once the pressure is removed. No long-term alteration of shape is possible.

SUPERFLEX-Instrumente sind aus Metall mit Formgedächtnis. Sie sind bei normaler OP-Temperatur superelastisch. Ihre Form folgt jedem von außen kommenden Druck und sie gewinnen ihre ursprüngliche Form wieder, sobald der Druck entfällt. Ergebnis: Es wird keine bleibende Verformung verursacht.

FOR PEDIATRIC SURGERY
FÜR KINDERCHIRURGIE

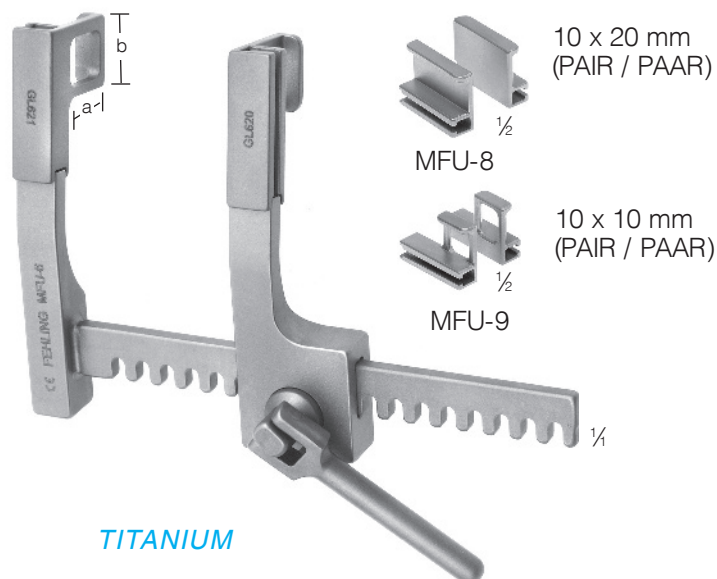


blades (included)
Blätter (inklusive)



SPREADING WIDTH = 30 mm
SPREIZWEITE = 30 mm

MBW-0



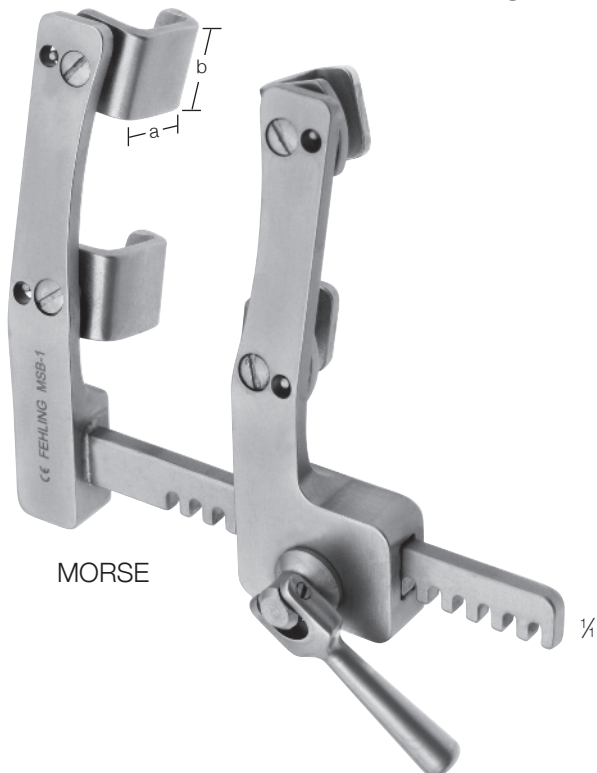
SPREADING WIDTH = 52 mm
SPREIZWEITE = 52 mm

MFU-6

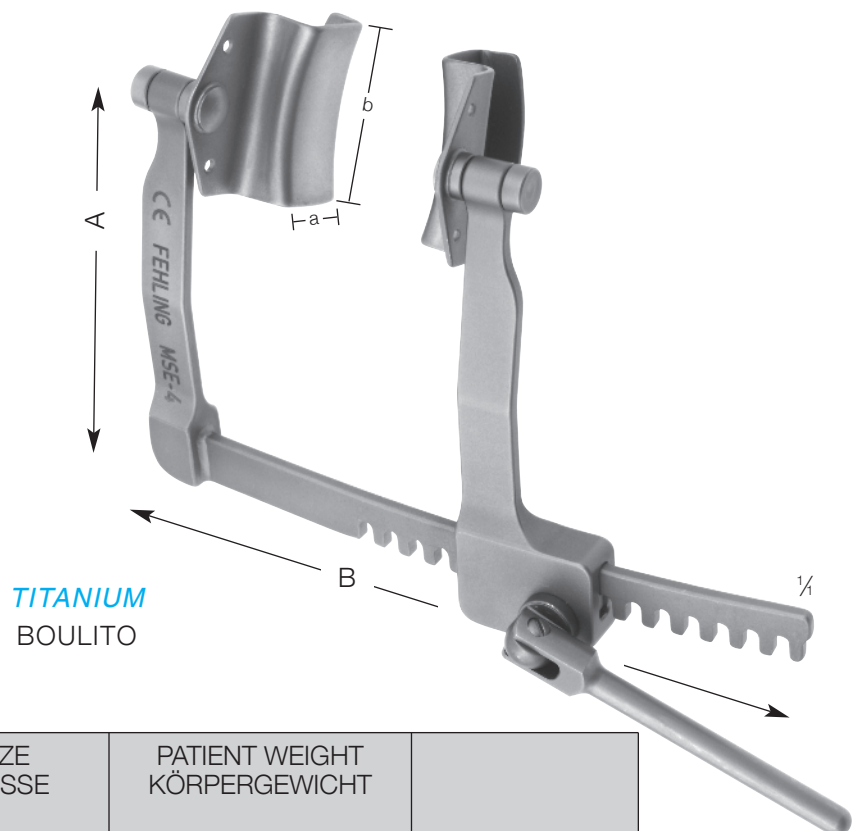
BLADE SIZE: DEPTH (a) x WIDTH (b)

BLATTGRÖSSE: TIEFE (a) x BREITE (b)

FOR PEDIATRIC SURGERY
FÜR KINDERCHIRURGIE



SPREADING WIDTH SPREIZWEITE	BLADE SIZE BLATTGRÖSSE a x b	
40 mm	14 x 12 mm	MSB-1
65 mm	14 x 12 mm	MSB-2
90 mm	20 x 15 mm	MSB-6
100 mm	23 x 20 mm	MSB-3
110 mm	20 x 15 mm	MSB-7
130 mm	23 x 20 mm	MSB-4
160 mm	23 x 20 mm	MSB-5

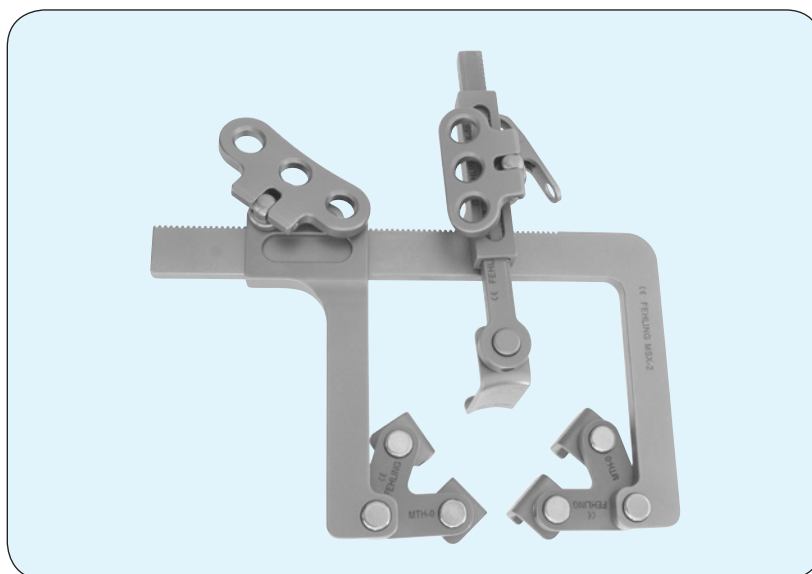


BODY SIZE RAHMENGROSSE A / B	BLADE SIZE BLATTGRÖSSE a x b	PATIENT WEIGHT KÖRPERGEWICHT	
60 / 100 mm	12 x 25 mm	≤ 5 kg	MSE-4
75 / 120 mm	18 x 35 mm	5 – 15 kg	MSE-5
100 / 140 mm	21 x 55 mm	15 – 30 kg	MSE-6
150 / 280 mm	30 x 100 mm	30 – 60 kg	MSE-9*

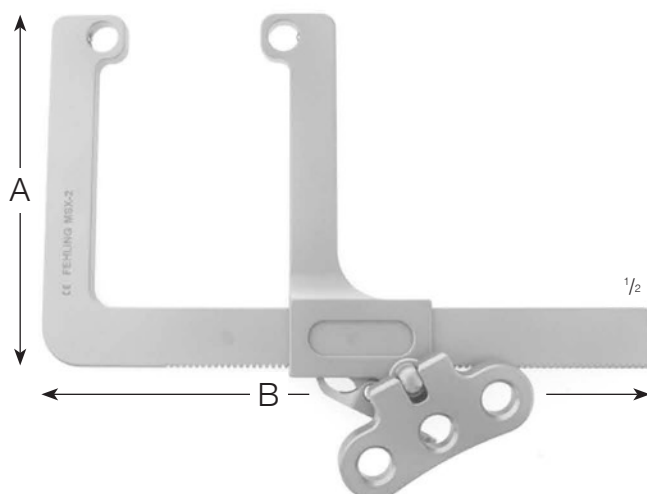
* Stainless Steel / rostfreier Stahl

V-CUT
TITANIUM

FOR PEDIATRIC SURGERY
FÜR KINDERCHIRURGIE



exemplary configuration
Konfigurationsbeispiel



RETRACTOR, BODY
SPERRER, RAHMEN

PATIENT WEIGHT KÖRPERGEWICHT	BLADE SIZE BLATTGRÖSSE A x B	
3 – 7 kg	80 x 130 mm	MSX-1
7 – 15 kg	90 x 150 mm	MSX-2
15 – 40 kg	120 x 200 mm	MSX-3



STANDARD
MSX-5B



RIDER
SCHLITTEN
ANGLE ADJUSTABLE
WINKELVERSTELLBAR
MSX-5C



BLADE GUIDE
HAKENFÜHRUNG
MSX-5A

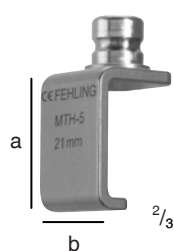


HORKE BLADE SWING
HORKE SCHAUKEL

HOLE DISTANCE LOCHABSTAND	
20 mm	MTH-2
25 mm	MTH-0
35 mm	MTH-1

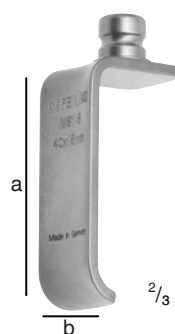
V-CUT
TITANIUM

FOR PEDIATRIC SURGERY
FÜR KINDERCHIRURGIE



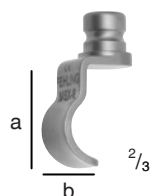
a \ b	15 mm	20 mm
15 mm	MTH-3	MTH-4
21 mm	MTH-5	MTH-6
26 mm	MTH-7	MTH-8

STERNAL BLADE
STERNUMHALTEBLATT



a \ b	15 mm	24 mm
40 mm	MSY-6	MSZ-6
50 mm	MSY-7	MSZ-7
60 mm	MSY-8	MSZ-8
70 mm	MSY-9	MSZ-9

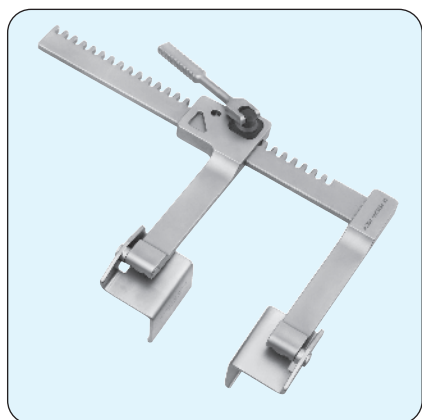
DIAPHRAGM RETRACTOR
ZWERCHFELLHAKEN



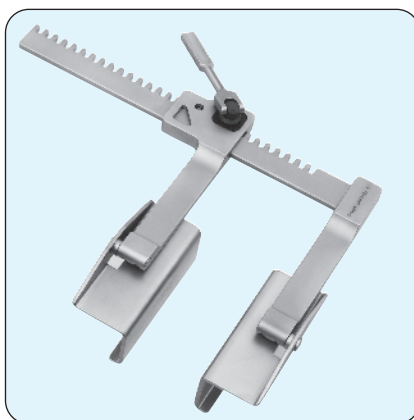
a \ b	10 mm
20 mm	MSX-6
30 mm	MSX-7
40 mm	MSX-8

LID RETRACTOR
LIDHAKEN

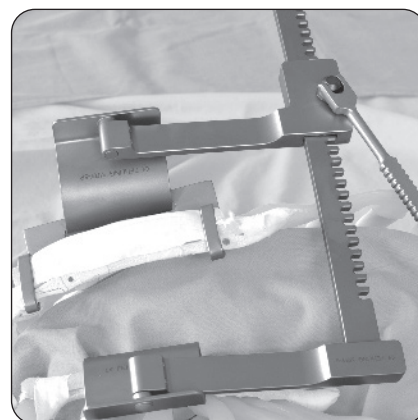
MARJAN MGH



PARTIAL STERNOTOMY
PARTIELLE STERNOTOMIE



TOTAL STERNOTOMY
TOTALE STERNOTOMIE



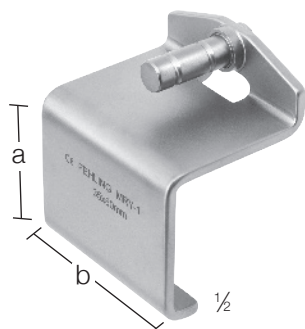
IMA EXPOSURE
IMA EXPOSITION



BODY (ONLY)
RAHMEN (ALLEIN)

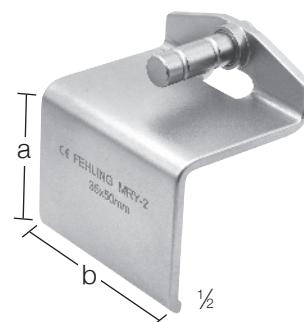
MRY-6

RETRACTING BLADES
HALTEBLÄTTER



FOR PARTIAL STERNOTOMY / L-CUT (PAIR)
FÜR PARTIELLE STERNOTOMIE / L-SCHNITT (PAAR)

a x b	
35 x 50 mm	MRY-1

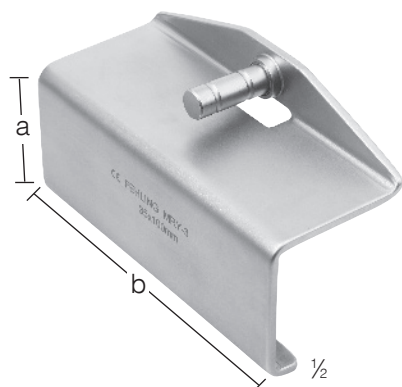


FOR PARTIAL STERNOTOMY / Z-CUT (PAIR)
FÜR PARTIELLE STERNOTOMIE / Z-SCHNITT (PAAR)

a x b	
35 x 50 mm	MRY-2

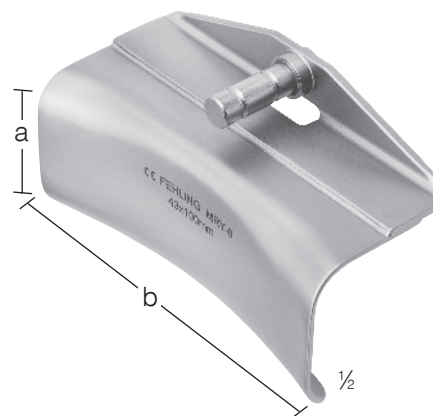
MARJAN MGH

RETRACTING BLADES
HALTEBLÄTTER



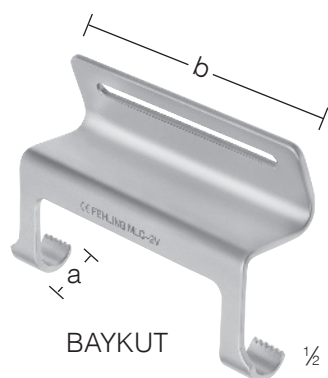
FOR TOTAL STERNOTOMY (PAIR)
FÜR TOTALE STERNOTOMIE (PAAR)

a x b	
35 x 70 mm	MRY-3K
35 x 100 mm	MRY-3
45 x 100 mm	MRY-4



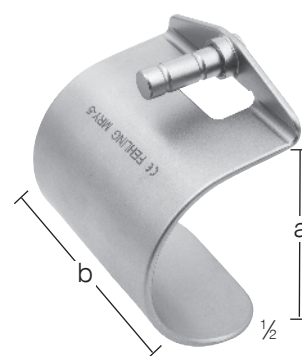
FOR TOTAL STERNOTOMY, CONVEX (PAIR)
FÜR TOTALE STERNOTOMIE, KONVEX (PAAR)

a x b	
34 x 100 mm	MRY-7
43 x 100 mm	MRY-8
50 x 100 mm	MRY-9
43 x 120 mm	MSD-0



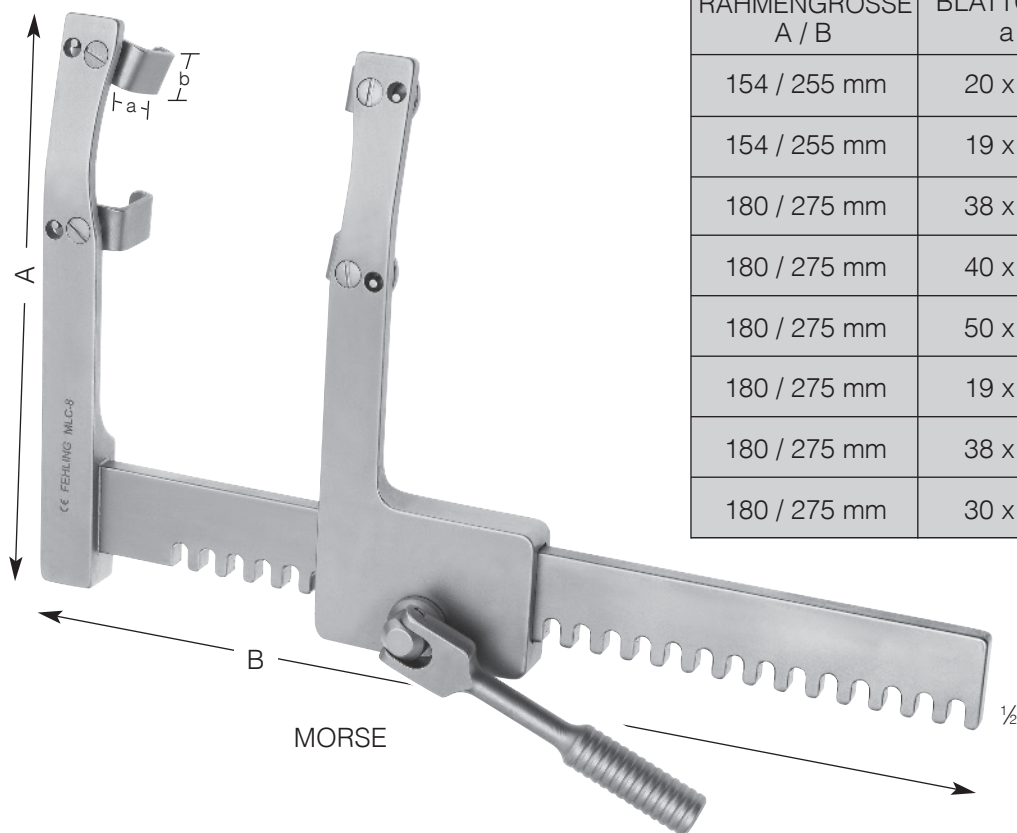
IMA RETRACTING BLADE
IMA HALTEBLATT

a x b	
15 x 50 mm	MLM-6V
15 x 90 mm	MLC-2V
15 x 120 mm	MLM-3V

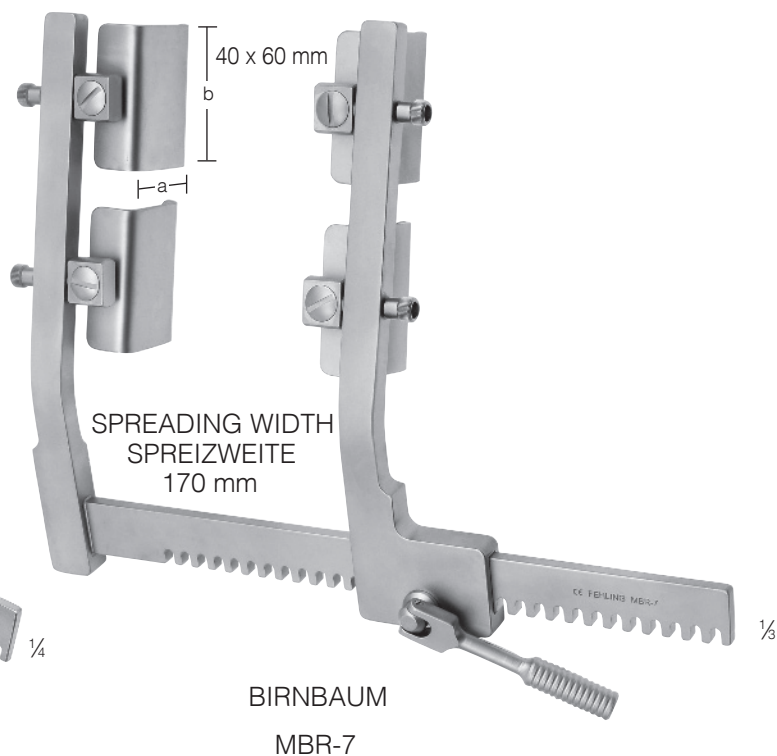
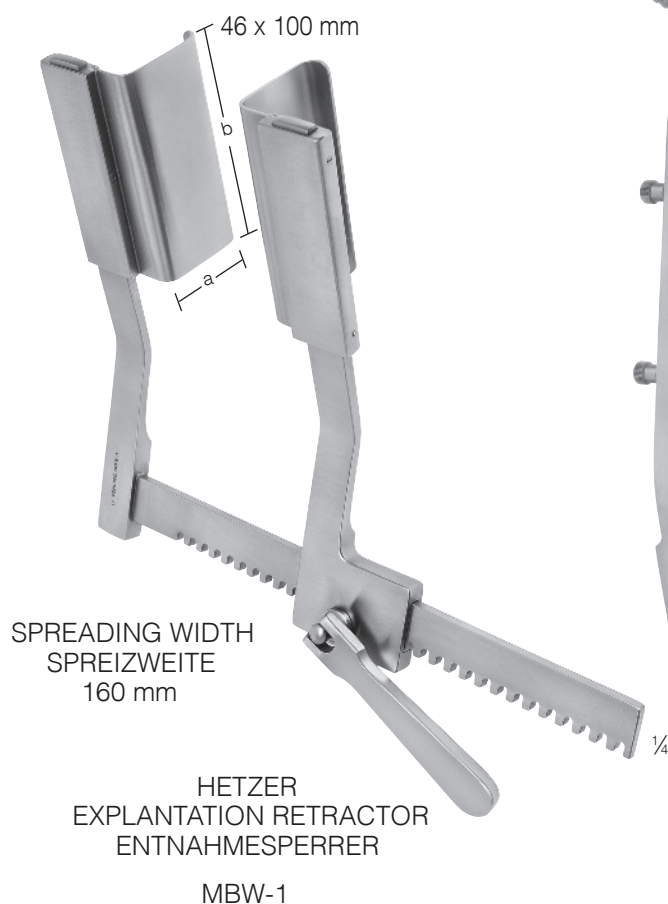


FOR IMA EXPOSITION
FÜR IMA DARSTELLUNG

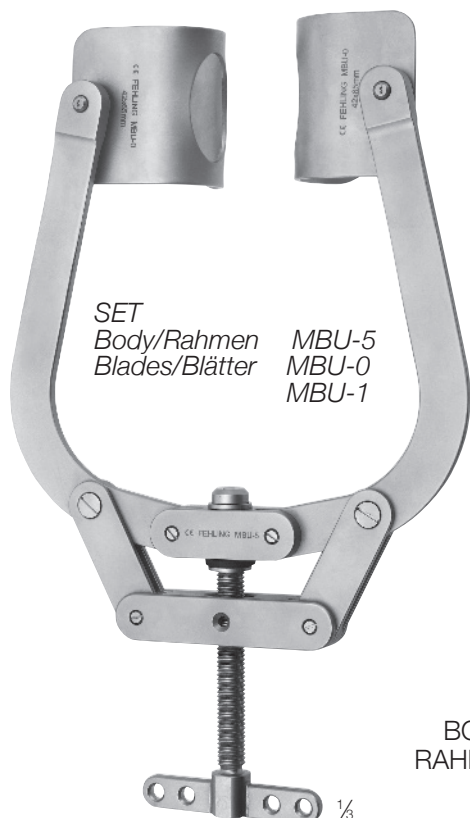
a x b	
30 x 65 mm	MSC-8
40 x 65 mm	MSC-9
50 x 65 mm	MRY-5



BODY SIZE RAHMENGROSSE A / B	BLADE SIZE BLATTGRÖSSE a x b	
154 / 255 mm	20 x 12 mm	MLC-8
154 / 255 mm	19 x 19 mm	MMZ-1
180 / 275 mm	38 x 28 mm	MSB-8
180 / 275 mm	40 x 35 mm	MMZ-4
180 / 275 mm	50 x 35 mm	MMZ-5
180 / 275 mm	19 x 19 mm	MLC-9
180 / 275 mm	38 x 23 mm	MMZ-2
180 / 275 mm	30 x 30 mm	MLD-0



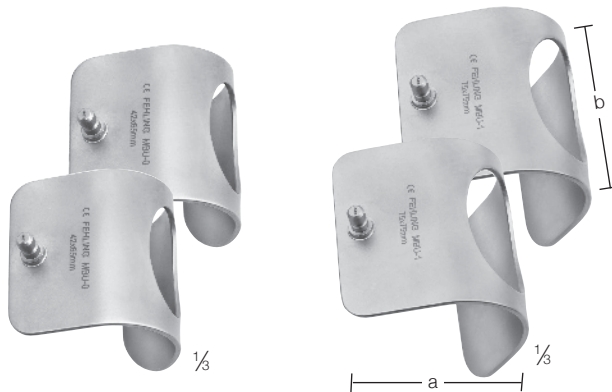
BLADE SIZE: DEPTH (a) x WIDTH (b)
BLATTGRÖSSE: TIEFE (a) x BREITE (b)



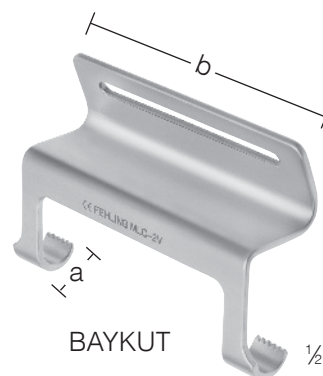
MERCEDES
MBU-4

BODY (ONLY)
RAHMEN (ALLEIN)
MBU-5

SINGLE COMPONENTS
EINZELKOMPONENTEN



BLADES (PAIR) / BLÄTTER (PAAR)
(a)42 x (b)65 mm (a)75 x (b)75 mm
MBU-0 MBU-1



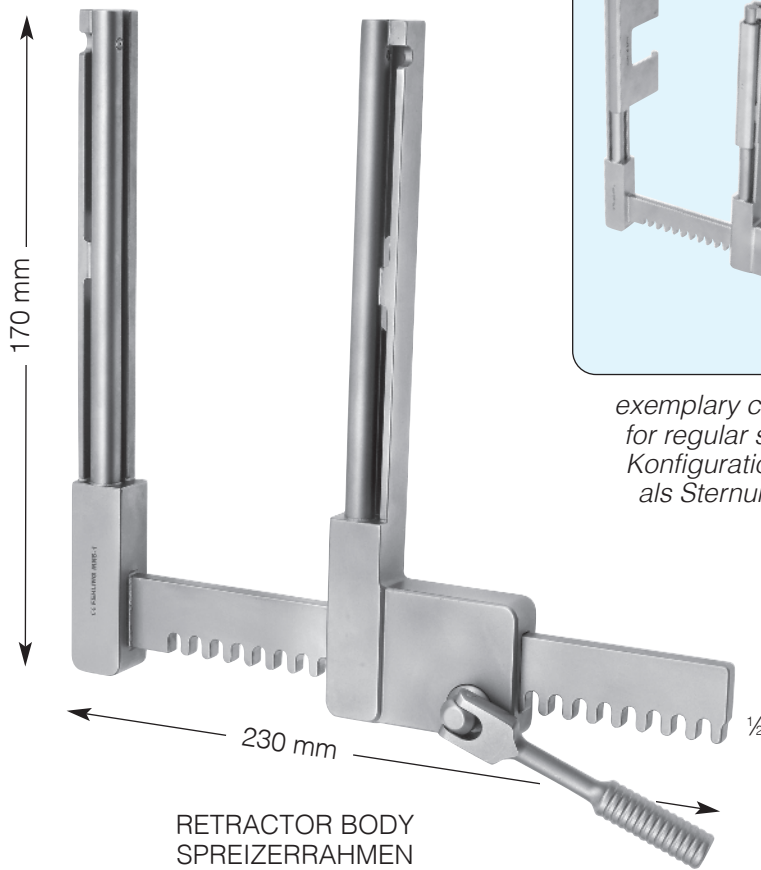
IMA RETRACTING BLADE
IMA HALTEBLATT

a x b	
15 x 50 mm	MLM-6V
15 x 90 mm	MLC-2V
15 x 120 mm	MLM-3V



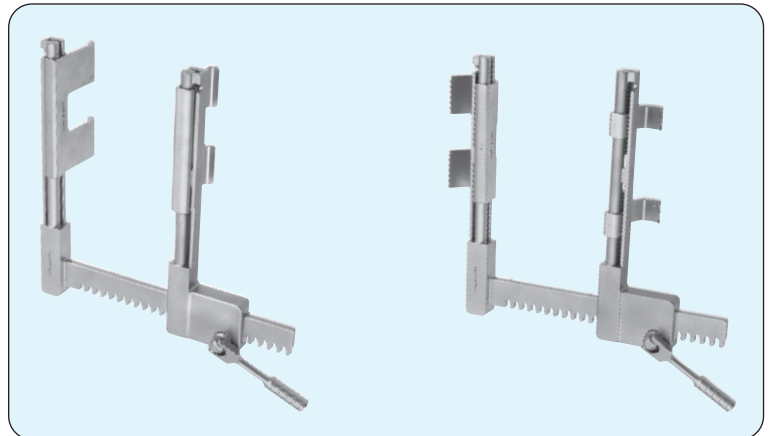
exemplary configuration
Konfigurationsbeispiel

BAYKUT



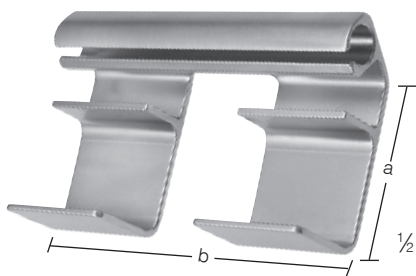
RETRACTOR BODY
SPREIZERRAHMEN

MNS-1



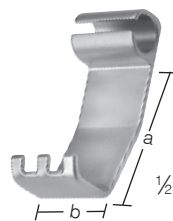
exemplary configuration
for regular sternotomy
Konfigurationsbeispiel
als Sternumspreizer

exemplary configuration
for IMA exposure
Konfigurationsbeispiel
als IMA-Spreizer



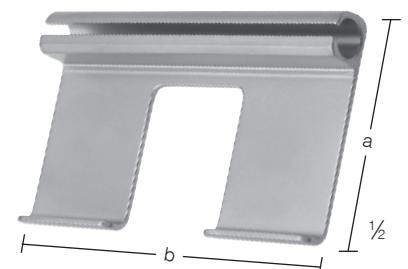
IMA RETRACTING BLADES
IMA-HALTEBLÄTTER

BLADE SIZE BLATTGRÖSSE a x b	
20 x 100 mm	MNT-1
30 x 100 mm	MNT-2
40 x 100 mm	MNT-3



IMA RETRACTING BLADES, ROTATABLE
IMA-HALTEBLÄTTER, DREHBAR

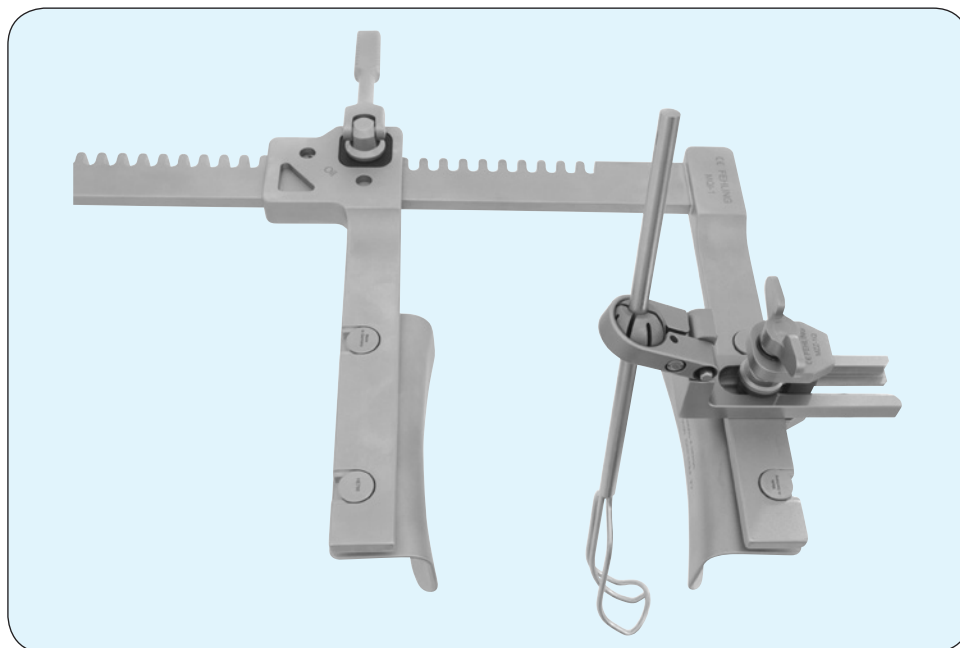
BLADE SIZE BLATTGRÖSSE a x b	
33 x 20 mm	MNT-4
43 x 20 mm	MNT-5



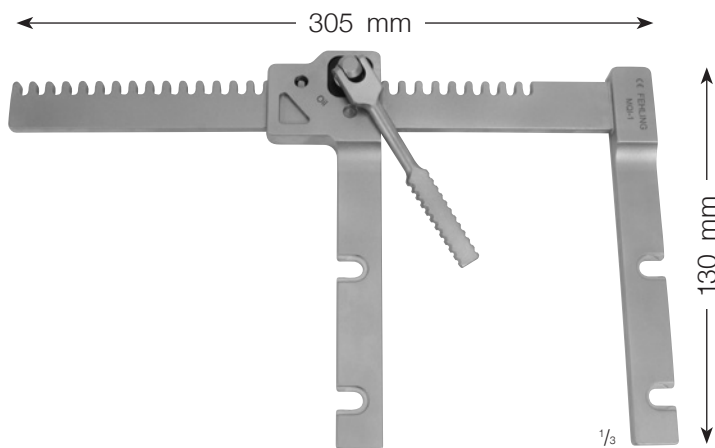
STERNAL RETRACTING BLADES
STERNUMBLÄTTER

BLADE SIZE BLATTGRÖSSE a x b	
30 x 100 mm	MNS-3
40 x 100 mm	MNS-4
50 x 100 mm	MNS-5

FALK

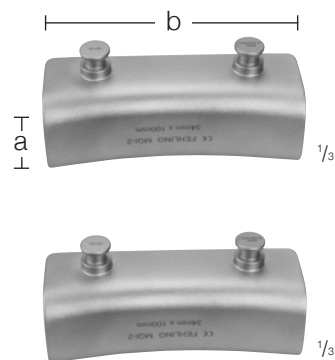


exemplary configuration
Konfigurationsbeispiel



BODY (ONLY)
RAHMEN (ALLEIN)

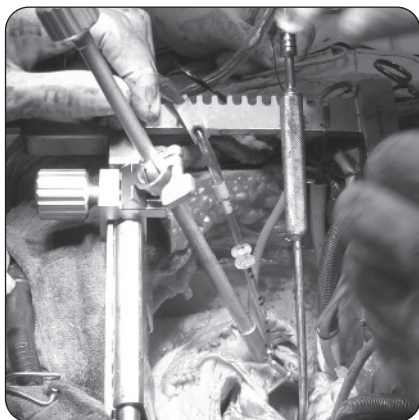
MQI-1



RETRACTOR BLADE (PAIR)
SPREIZERBLATT (PAAR)

BLADE SIZE BLATTGRÖSSE a x b	
34 x 100 mm	MQI-2
43 x 100 mm	MQI-3

ACCESSORIES FOR VALVE SURGERY ZUBEHÖR FÜR KLAPPENCHIRURGIE

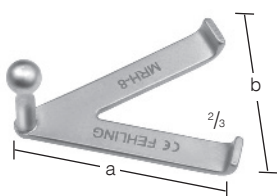


*exemplary configuration
Konfigurationsbeispiel*



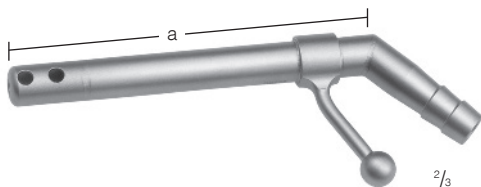
BALL JOINT ADAPTER (Ø 8)*
(FOR BLADE GUIDE MRF-0V)
KUGELGELENKADAPTER (Ø 8)*
(FÜR HAKENFÜHRUNG MRF-0V)

MRF-1V



ATRIAL FORK
VORHOFGABEL

BLADE SIZE BLATTGRÖSSE a x b	
30 x 25 mm	MRH-7
40 x 35 mm	MRH-8
50 x 45 mm	MRH-9



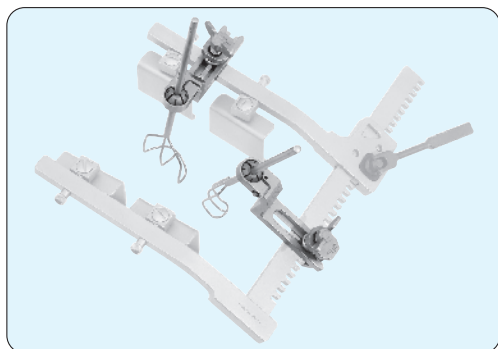
ATRIAL SUCTION DOWNHOLDER
ATRIALER SAUGNIEDERHALTER

DEPTH TIEFE a	
60 mm	MRJ-5
70 mm	MRJ-6
80 mm	MRJ-7

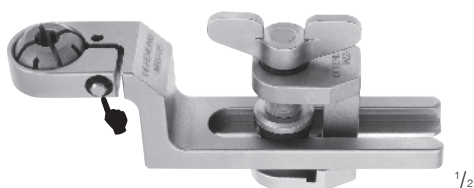


BLADE GUIDE (Ø 8)
HAKENFÜHRUNG (Ø 8)
200 mm

MRF-0V



exemplary configuration
Konfigurationsbeispiel



BALL JOINT ADAPTER BAYONET (Ø 6,35 mm)*
+ CLAMPING ELEMENT
KUGELADAPTER, BAYONETT (Ø 6,35 mm)*
+ BEFESTIGUNGSELEMENT

MRV-0F + MZZ-1Q

* adaptable to most sternal retractors
verwendbar für die meisten Sternumspreizer



BALL ADAPTER WITH JOINT (Ø 6,35 mm)**
+ CLAMPING ELEMENT
KUGELADAPTER MIT GELENK (Ø 6,35 mm)**
+ BEFESTIGUNGSELEMENT

MRV-0R + MZZ-1Q

** no screwdriver necessary
kein Schraubendreher erforderlich

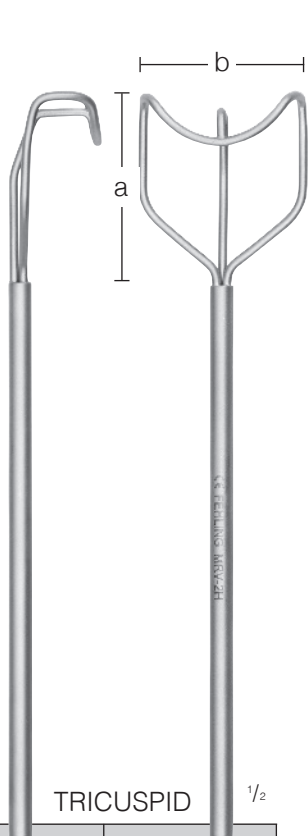


BALL ADAPTER WITH JOINT (Ø 6,35 mm)**
+ CLAMPING ELEMENT
KUGELADAPTER MIT GELENK (Ø 6,35 mm)**
+ BEFESTIGUNGSELEMENT

MRV-0J + MZZ-1Q

** no screwdriver necessary
kein Schraubendreher erforderlich

HOHE ATRIAL RETRACTORS, MALLEABLE, SHAFT Ø = 6,35 mm
HOHE VORHOFHAKEN, BIEGSAM, SCHAFT Ø = 6,35 mm



TRICUSPID

LENGTH LÄNGE	45 x 45 mm a x b
150 mm	MRV-2H
200 mm	MRV-2L



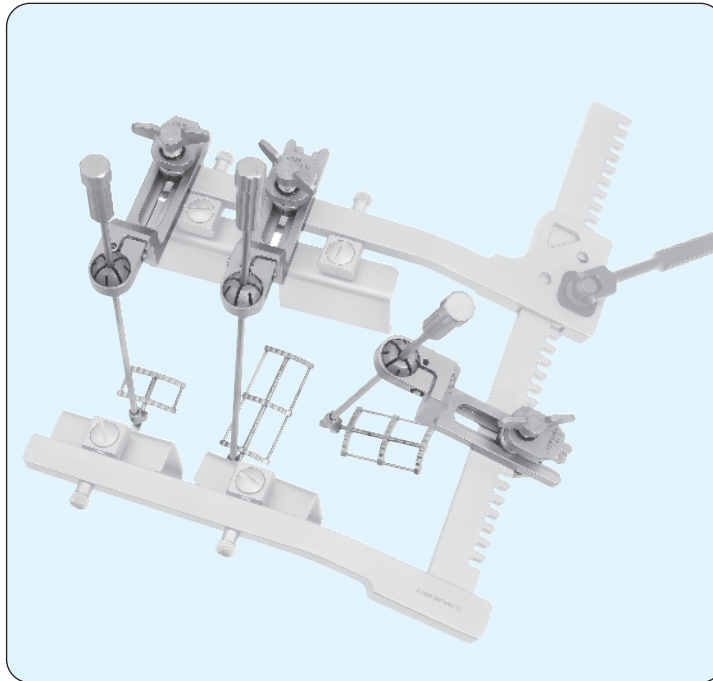
LENGTH LÄNGE	65 x 20 mm a x b
150 mm	MRV-4H
200 mm	MRV-4L



LENGTH LÄNGE	65 x 30 mm a x b
150 mm	MRV-3H
200 mm	MRV-3L



65 x 40 mm
a x b
200 mm
MPF-1H



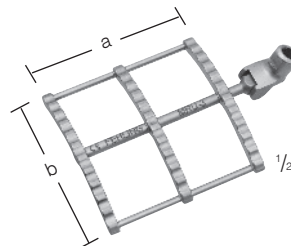
exemplary configuration
Konfigurationsbeispiel

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.

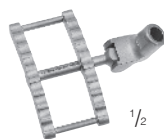


BLADE GUIDE (Ø4)
HAKENFÜHRUNG (Ø4)
220 mm
MRN-3

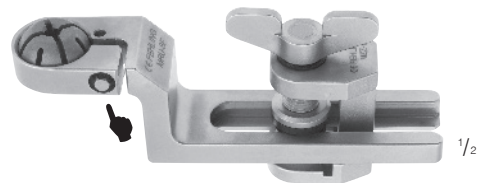


ATRIAL BLADE
VORHOFBÜGEL

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



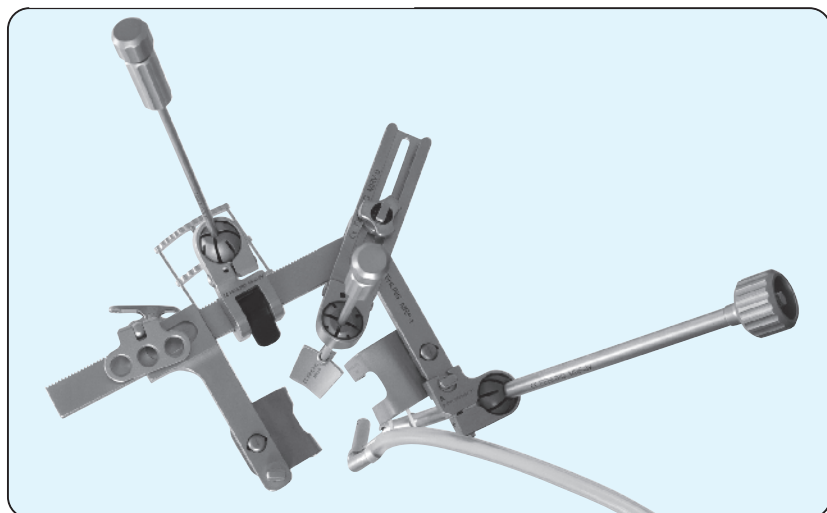
ATRIAL BLADE
FOR TRICUSPIDAL VALVE
VORHOFBLATT
FÜR TRIKUSPIDALKLAPPE
18 x 35 mm
MRU-5



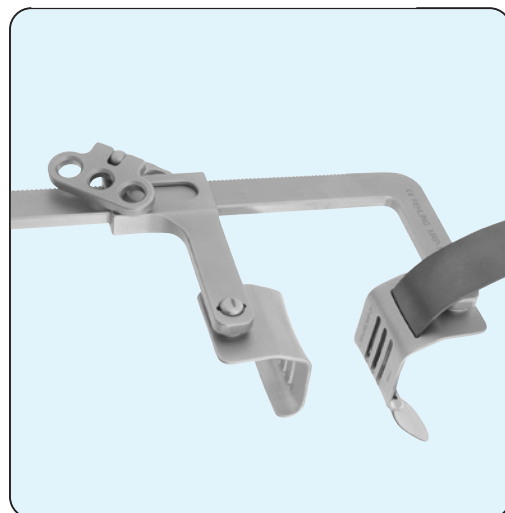
BALL JOINT ADAPTER BAYONET (Ø 4)*
LENGTH AND HEIGHT VARIABLE
+ CLAMPING ELEMENT
KUGELADAPTER, BAYONETT (Ø 4)*
LÄNGE UND HÖHE VARIABLE
+ BEFESTIGUNGSELEMENT

MRU-8F + MZZ-1Q

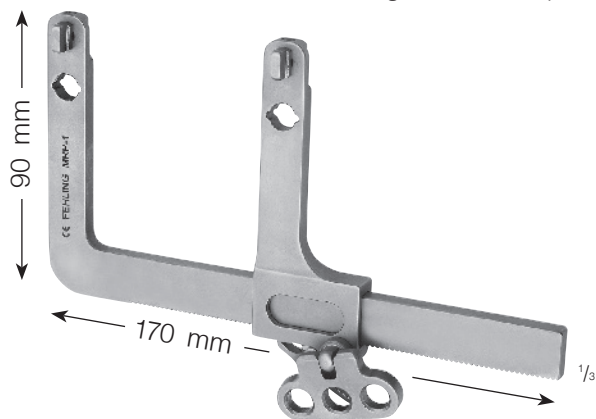
* adaptable to most sternal retractors
verwendbar für die meisten Sternumspreizer



exemplary configuration
Konfigurationsbeispiel

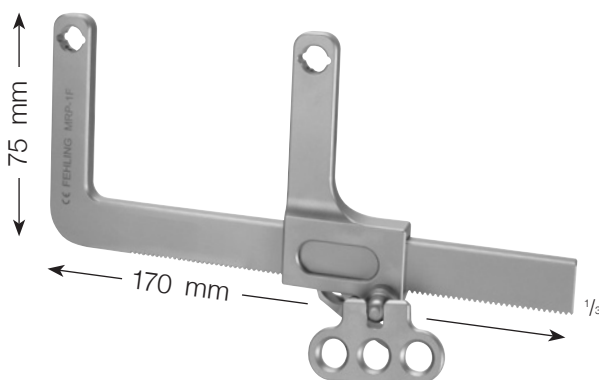


exemplary configuration
Konfigurationsbeispiel



INTERCOSTAL RETRACTOR
INTERCOSTALSPREIZER

MRP-1



INTERCOSTAL RETRACTOR SHORT ARM
INTERCOSTALSPREIZER KURZARM

MRP-1F

RETRACTING BLADES (PAIR)
HALTEBLÄTTER (PAAR)

BLADE SIZE BLATTGRÖSSE a x b			
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	



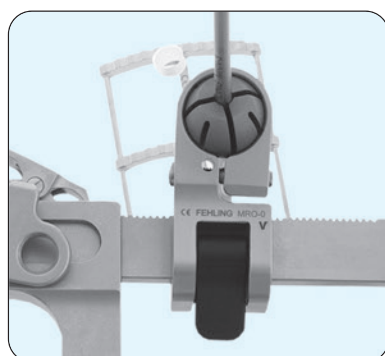
CERAMO® SUPERPLAST
SPATULA
SPATEL
24 x 250 mm
EOJ-7

MVR RETRACTOR ACCESSORIES MKR SPREIZER ZUBEHÖR

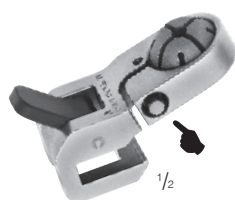


BLADE GUIDE (Ø4)
HAKENFÜHRUNG (Ø4)
220 mm
MRN-3

RETRACTION OF THE AORTIC ROOF RETRAKTION DES VORHOFDACHS



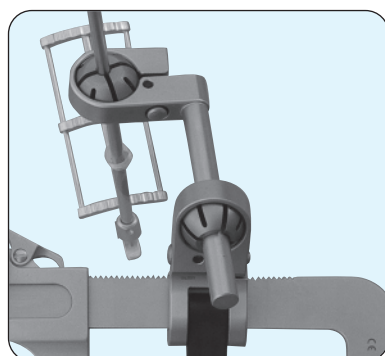
*exemplary configuration
Konfigurationsbeispiel*



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.

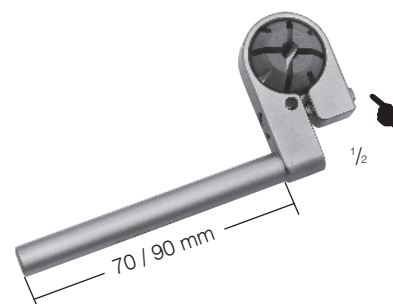


*exemplary configuration
Konfigurationsbeispiel*



BALL ADAPTER (Ø8) FOR MRR-2V/L
KUGELADAPTER (Ø8) FÜR MRR-2V/L
MRR-1V*

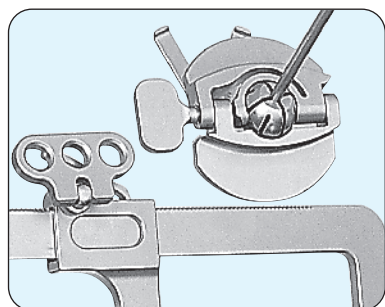
* with wing screw: MRR-1
* mit Flügelschraube: MRR-1



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*

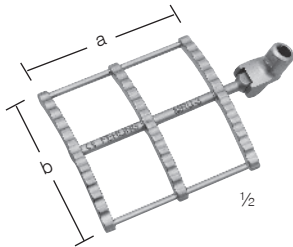


FIXATION DEVICE FOR MRN-3 (Ø4)
(FOR EXTERNAL STAB INCISION)
FIXIERVORRICHTUNG FÜR MRN-3 (Ø4)
(FÜR SEPARATE STICHINZISION)

MRO-9*

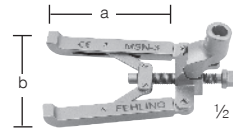
*with inside screw MRO-9V
*mit innenliegender Schraube MRO-9V

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*

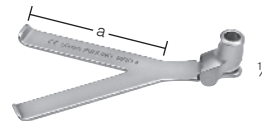
a x b	
35 x 25 mm	MSN-2
55 x 30 mm	MSN-3

*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

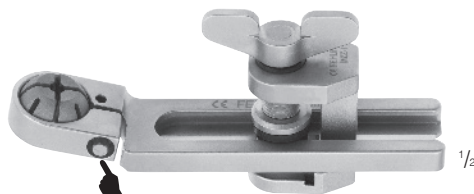
MRU-9

MVR RETRACTOR ACCESSORIES MKR SPREIZER ZUBEHÖR

HOLDING THE SEPTAL FOLD DOWN NIEDERHALTEN DER SEPTUMFALTE



*exemplary configuration
Konfigurationsbeispiel*



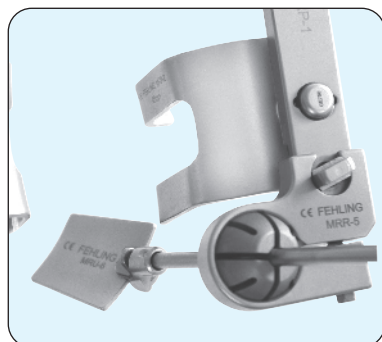
BALL JOINT ADAPTER (Ø4)
+ CLAMPING ELEMENT
KUGELADAPTER, GERADE (Ø4)
+ BEFESTIGUNGSELEMENT

MRV-9F + MZZ-1Q



RETAINER FOR SEPTAL FOLD
AND DIAPHRAGM
NIEDERHALTER FÜR SEPTUMFALTE
UND ZWERCHFELL

MRU-6



*exemplary configuration
Konfigurationsbeispiel*



LEFT / LINKS

MRR-5



RIGHT / RECHTS

MRR-6

only with MRP-1
nur mit MRP-1

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.



BALL JOINT ADAPTER MINI FRONT LOAD (Ø4)
KUGELADAPTER MINI FRONT LOAD (Ø4)

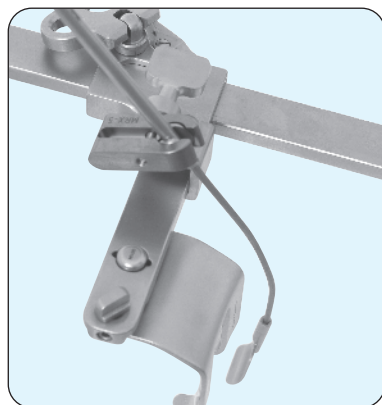
MRX-5*

* Screwdriver TXW-9X required.

* Schraubendreher TXW-9X erforderlich.



RETRACTION OF THE MV CUSP RETRAKTION DES MK-SEGELS



*exemplary configuration
Konfigurationsbeispiel*



SUPERPLAST
MALLEABLE RETRACTOR FOR MV CUSP (Ø4)
BIEGBARER RETRAKTOR FÜR MK-SEGEL (Ø4)
250 mm

MRX-1V

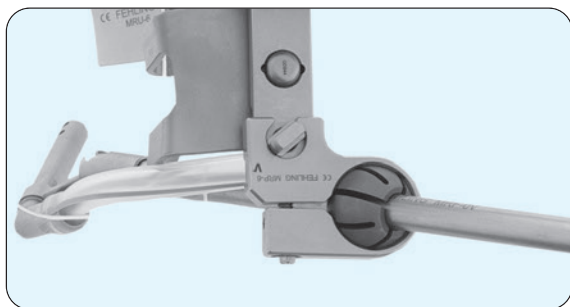


SUPERPLAST
MALLEABLE LID HOOK (Ø4)
BIEGBARER LIDHAKEN (Ø4)
12 x 14 x 250 mm

MRX-6

MVR RETRACTOR ACCESSORIES MKR SPREIZER ZUBEHÖR

HOLDING THE INCISED ATRIUM OPEN
OFFENHALTEN DES INZIDIERTEN VORHOFS



*exemplary configuration
Konfigurationsbeispiel*



BALL ADAPTER (Ø8)
KUGELADAPTER (Ø8)

LEFT / LINKS

MRP-5V*



RIGHT / RECHTS

MRP-6V*

only with MRP-1
nur mit MRP-1

* with wing screw: MRP-5
* mit Flügelschraube: MRP-5

* with wing screw: MRP-6
* mit Flügelschraube: MRP-6



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.



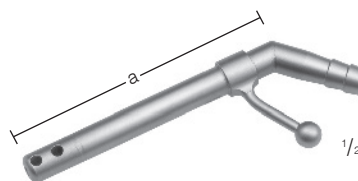
BLADE GUIDE (Ø8)
HAKENFÜHRUNG (Ø8)
200 mm

MRP-0V



INSERTION FORCEPS FOR MRJ-5,6,7
EINFÜHRZANGE FÜR MRJ-5,6,7

MRJ-4

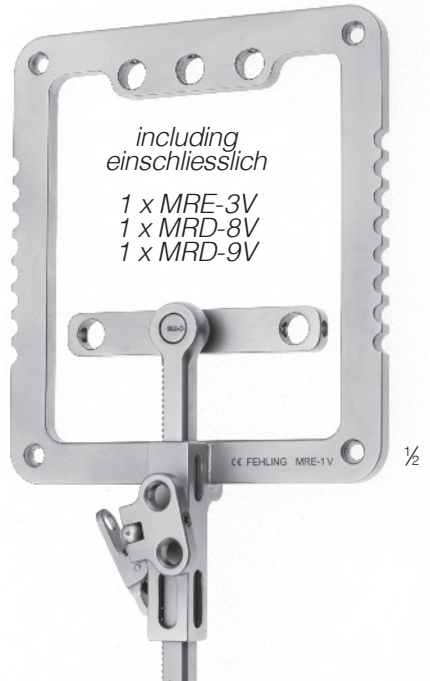


LATERAL ATRIAL RETRACTOR /
SUCTION DEVICE
SAUGNIEDERHALTER FÜR
LATERALE RETRAKTION DES VORHOFS

DEPTH TIEFE a	
60 mm	MRJ-5
70 mm	MRJ-6
80 mm	MRJ-7

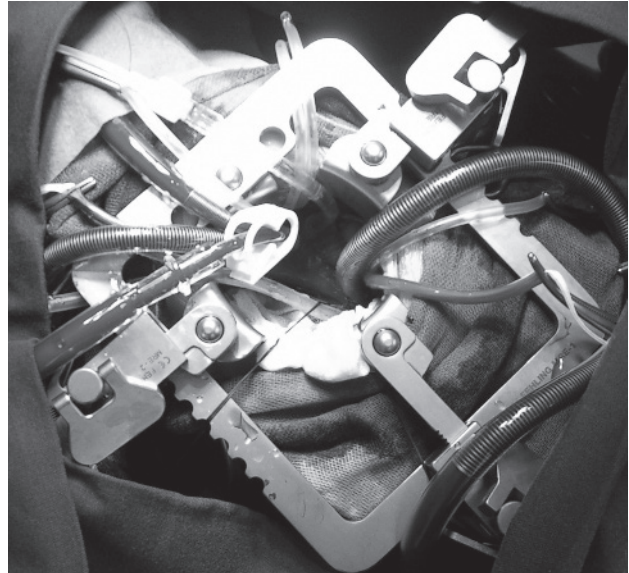
FANTASMIKS

FOR MINIMALLY INVASIVE SURGERY
FÜR MINIMALINVASIVE CHIRURGIE



BODY / RAHMEN
SPREADING WIDTH 80 x 80 mm
SPREIZWEITE 80 x 80 mm

MRE-1V



exemplary configuration
Konfigurationsbeispiel



CROSS BRACKET FOR BLADES 25 - 55 mm
QUERBÜGEL FÜR HALTEBLÄTTER 25 - 55 mm

MRD-8V



COUPLING RIDER
FIXIERSCHLITTEN

MRE-2V



CROSS BRACKET FOR BLADES 60 - 95 mm
QUERBÜGEL FÜR HALTEBLÄTTER 60 - 95 mm

MRD-9V



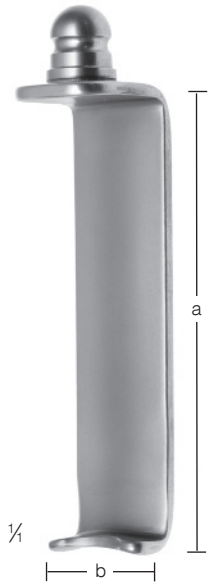
BLADE GUIDE
HAKENFÜHRUNG

MRE-3V

FANTASMICS

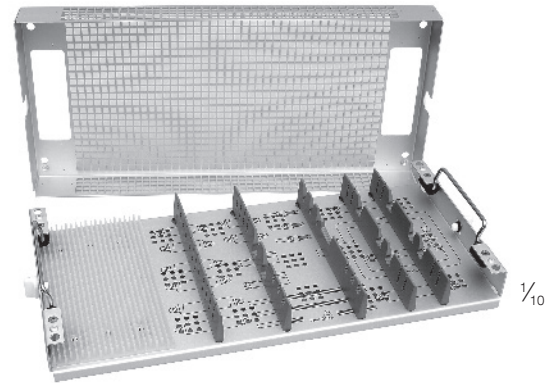
FOR MINIMALLY INVASIVE SURGERY
FÜR MINIMALINVASIVE CHIRURGIE

RETRACTING BLADES*
HALTEBLÄTTER*



DEPTH TIEFE a	WIDTH /BREITE b	
	15 mm	24 mm
25 mm	-	MRE-4
35 mm	MRI-1	MRE-5
45 mm	MRI-2	MRE-6
55 mm	MRI-3	MRE-7
65 mm	MRI-4	MRE-8
75 mm	MRI-5	MRE-9
85 mm	MRI-6	MRI-8
95 mm	MRI-7	MRI-9

*auxiliary tool: blade ejector NGM-6 see page 2/40
*Hilfsmittel: Blattentferner NGM-6 siehe Seite 2/40



STORAGE AND
STERILISATION TRAY
AUFBEWAHRUNGS- UND
STERILISATIONSCONTAINER
511 x 243 mm

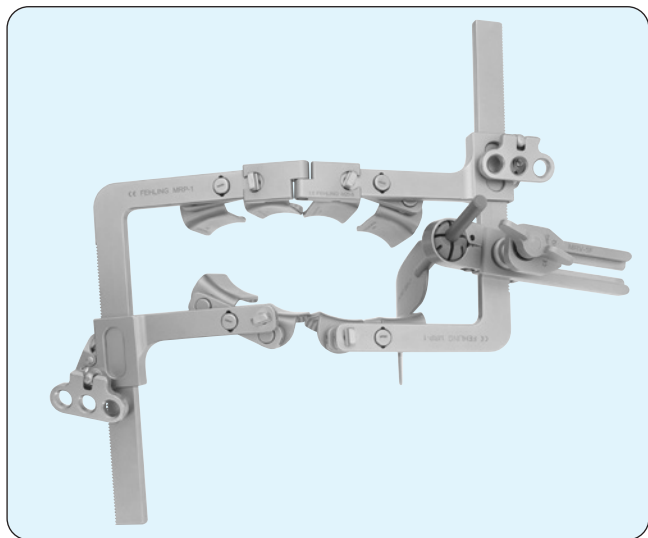
MRE-0

a x b = 12 x 7,5 mm

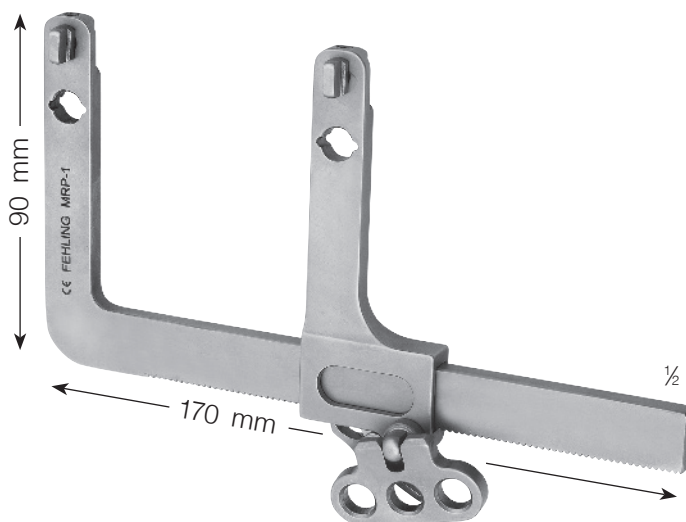


MINI THORACOTOMY RETRACTOR (PEDIATRIC)
MINI-THORAKOTOMIESPREIZER (PÄDIATRISCH)
115 mm
MSD-5

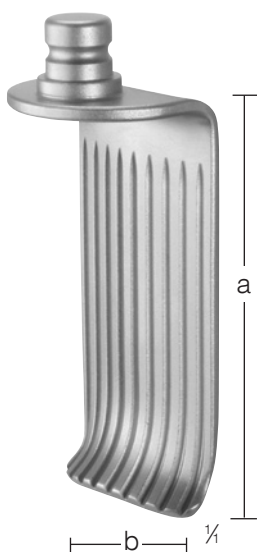
RETRACTOR FOR MILuTX
RETRAKTOR FÜR MILuTX



exemplary configuration
Konfigurationsbeispiel



MICS INTERCOSTAL RETRACTOR
MICS INTERCOSTALSPREIZER
MRP-1



RETRACTING BLADES*
HALTEBLÄTTER*

DEPTH TIEFE a	WIDTH / BREITE b	
	15 mm	24 mm
23 mm	—	MRE-4M
33 mm	MRI-1M	MRE-5M
43 mm	MRI-2M	MRE-6M
53 mm	MRI-3M	MRE-7M
63 mm	MRI-4M	MRE-8M
73 mm	MRI-5M	MRE-9M
83 mm	MRI-6M	MRI-8M
93 mm	MRI-7M	MRI-9M

* auxiliary tool: blade ejector NGM-6 see catalogue 2 page 40
Hilfsmittel: Blattentferner NGM-6 siehe Katalog 2 Seite 40



HINGE CONNECTOR
GELENKVERBINDER
MZI-5



CROSS BRACKET FOR RETRACTING BLADES
QUERBÜGEL FÜR HALTEBLÄTTER
35 mm
MRD-8V



CROSS BRACKET FOR RETRACTING BLADES
QUERBÜGEL FÜR HALTEBLÄTTER
60 mm
MRD-9V

RETRACTOR FOR MILuTX
RETRAKTOR FÜR MILuTX

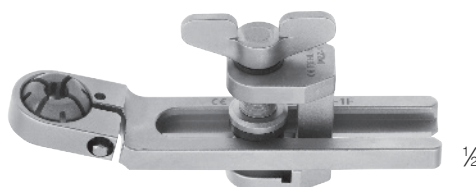
SUPERPLAST
LUNG/DIAPHRAGM RETRACTOR, MALLEABLE (Ø 6,35)
LUNGEN-/ZWERCHFELLRETRAKTOR, BIEGSAM (Ø 6,35)



THICKNESS STÄRKE	70x35x225 mm
1,2 mm	MRV-7V
2,0 mm	MRV-7



THICKNESS STÄRKE	70x35x182 mm
1,2 mm	MRV-8V
2,0 mm	MRV-8



BALL JOINT ADAPTER, (Ø 6,35)
LENGTH AND HEIGHT VARIABLE
+ CLAMPING ELEMENT
KUGELADAPTER, GERADE (Ø 6,35)
LÄNGE + HÖHE VARIABLE
+ BEFESTIGUNGSELEMENT

MRV-1F + MZZ-1Q

COOLEY



LEFT / LINKS

a x b	LENGTH / LÄNGE 240 mm
25 x 20 mm	MFV-9
25 x 25 mm	MFW-7
25 x 30 mm	MFW-0
25 x 35 mm	MFW-6
25 x 45 mm	MFW-5



RIGHT / RECHTS

a x b	LENGTH / LÄNGE 240 mm
25 x 20 mm	MFV-6
40 x 25 mm	MFW-4
40 x 30 mm	MFV-7
40 x 35 mm	MFW-3
40 x 45 mm	MFW-2
50 x 35 mm	MFV-8



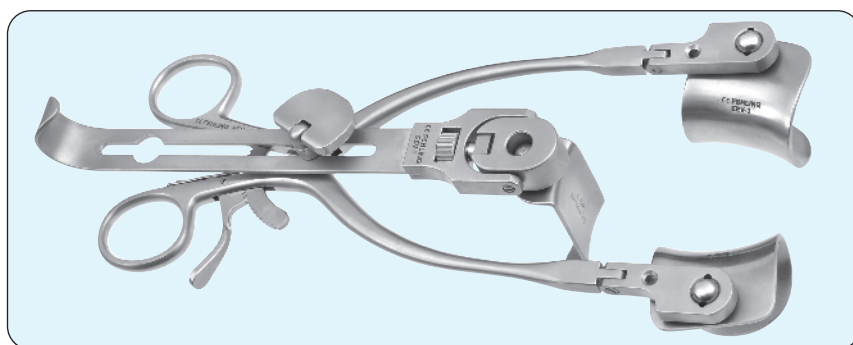
SHUNT RETRACTOR
SHUNTSPREIZER
70 mm
ECF-0

HOOK LENGTH
HAKENLÄNGE
9 mm

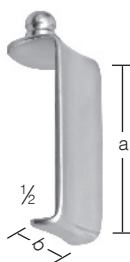
BLUNT
STUMPF



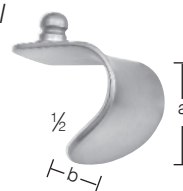
MAYO-ADAMS
RETRACTOR
WUNDSPREIZER
170 mm
ECG-7



exemplary configuration
Konfigurationsbeispiel



RETRACTING BLADES*
HALTEBLÄTTER*



ROUX
RETRACTING BLADES*
HALTEBLÄTTER*



SPREADING WIDTH
SPREIZWEITE
MAX. 80 x 100 mm
210 mm

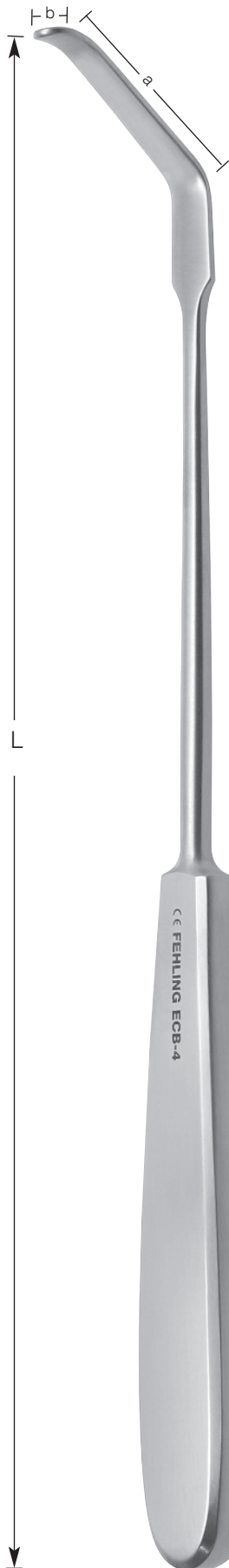
EEV-1

BLADE SIZE BLATTGRÖSSE a x b	
35 x 24 mm	MRE-5
45 x 24 mm	MRE-6
55 x 24 mm	MRE-7

BLADE SIZE BLATTGRÖSSE a x b	
23 x 30 mm	EEV-2
28 x 38 mm	EEV-3
33 x 45 mm	EEV-4

*auxiliary tool: blade ejector NGM-6 see page 2/40
*Hilfsmittel: Blattentferner NGM-6 siehe Seite 2/40

ZENKER



35 x 8 mm
L = 235 mm

ECB-4



60 x 12 mm
L = 260 mm

ECB-5



75 x 12 mm
L = 275 mm

ECB-6



85 x 20 mm
L = 290 mm

ZAK-5



100 x 25 mm
L = 300 mm

ZAK-6

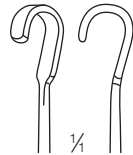


BLADE SIZE: DEPTH (a) x WIDTH (b)
BLATTGRÖSSE: TIEFE (a) x BREITE (b)

CERAMO®

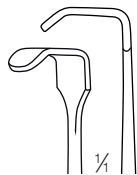


ASD/VSD RETRACTOR
HERZDEFEKTHAKEN

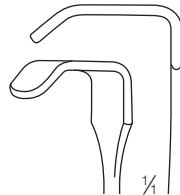


3 x 5 mm
EOB-7

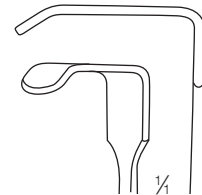
LANGENBECK



12 x 5 mm
EOB-1

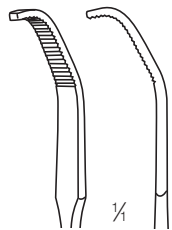


20 x 6 mm
EOB-2

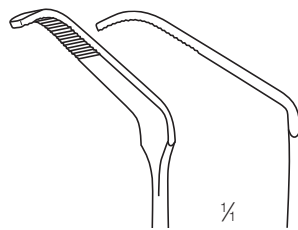


25 x 6 mm
EOB-3

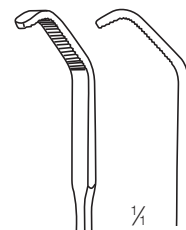
ZENKER



10 x 3 mm
EOB-5



25 x 3 mm
EOB-6



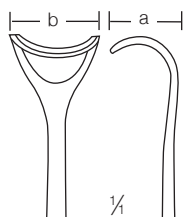
10 x 3 mm
(L=190 mm)
EOB-0

BLADE SIZE: DEPTH (a) x WIDTH (b)
BLATTGRÖSSE: TIEFE (a) x BREITE (b)

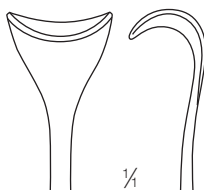
CERAMO®



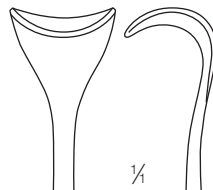
175 mm



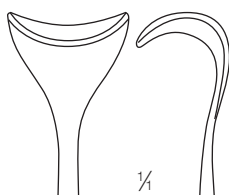
8 x 12 mm
EOA-6



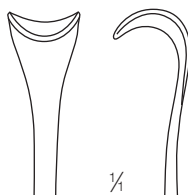
8 x 14 mm
EOA-5



12 x 14 mm
EOA-8



13 x 16 mm
EOA-9



8 x 8 mm
EOA-0



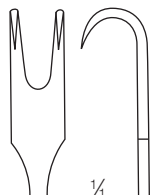
a = 3 mm
pointed / scharf
EOA-2



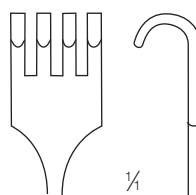
a = 7 mm
pointed / scharf
EOF-1



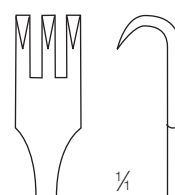
2 x 3 mm
pointed / scharf
EOA-1



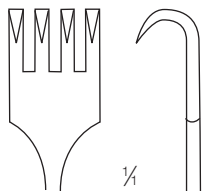
7 x 7 mm
pointed / scharf
EOA-3



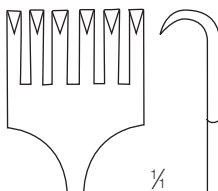
7 x 12 mm
blunt / stumpf
EOF-3



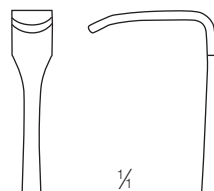
7 x 9 mm
pointed / scharf
EOF-2



7 x 12 mm
pointed / scharf
EOF-4



7 x 18 mm
pointed / scharf
EOF-5



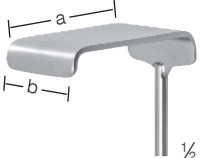
17 x 5 mm
EOB-8

BLADE SIZE: DEPTH (a) x WIDTH (b)
BLATTGRÖSSE: TIEFE (a) x BREITE (b)

SCHWABINGER

FOR PEDIATRIC SURGERY
FÜR KINDERCHIRURGIE



120 mm	 14 x 12 mm EZB-1	 20 x 15 mm EZB-2	 26 x 22 mm EZB-3	 32 x 30 mm EZB-4	 50 x 25 mm EZB-5
170 mm	 14 x 12 mm EZA-1	 20 x 15 mm ECZ-5	 32 x 30 mm ECZ-6	 BLUNT / STUMPF 20 x 12 mm EZA-3	 POINTED / SCHARF 20 x 20 mm EZA-2



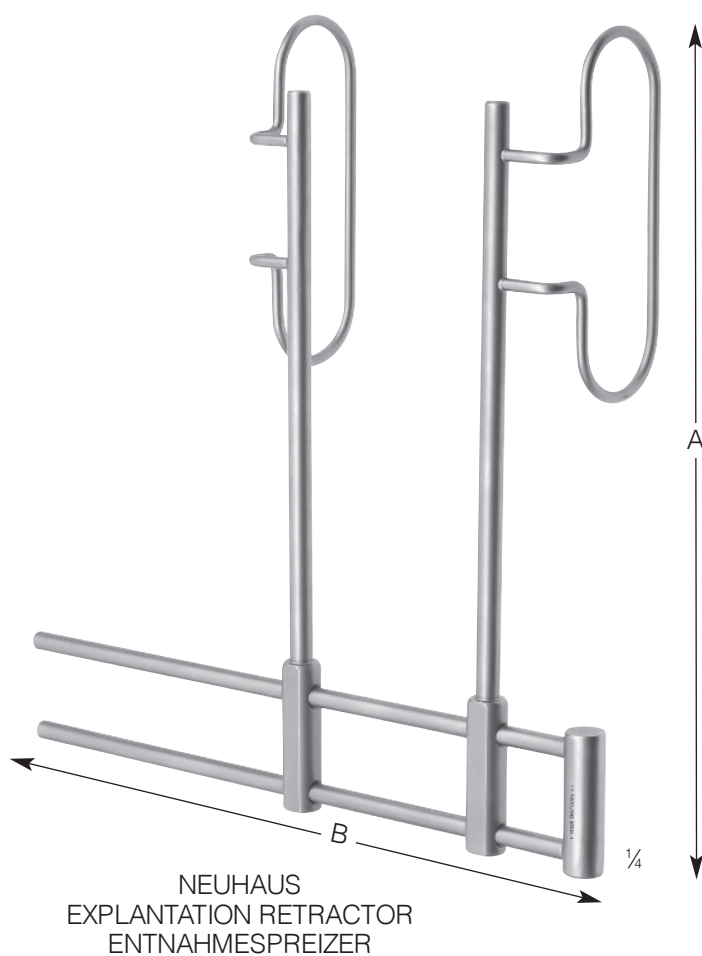
BLADE SIZE: DEPTH (a) x WIDTH (b)
BLATTGRÖSSE: TIEFE (a) x BREITE (b)



ADAPTER
ECZ-7

FITTING RETRACTING BLADES FOR EZA-0 ON PAGE 2/25
HALTEBLÄTTER FÜR EZA-0 AUF SEITE 2/25

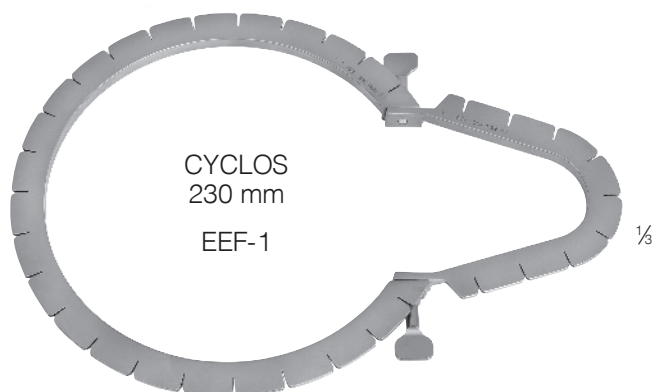
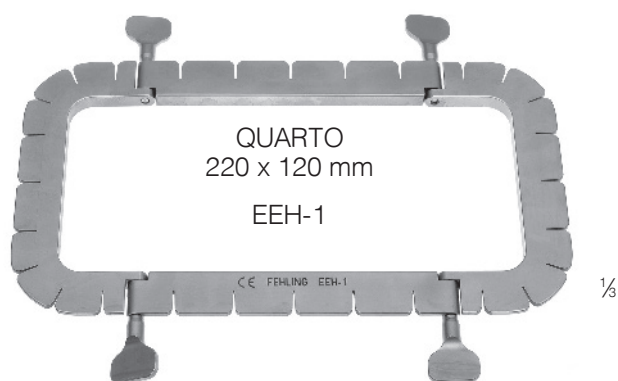




BODY SIZE RAHMENGROSSE A / B	
180 / 180 mm	MSD-3
270 / 270 mm	MSD-2
360 / 360 mm	MSD-1

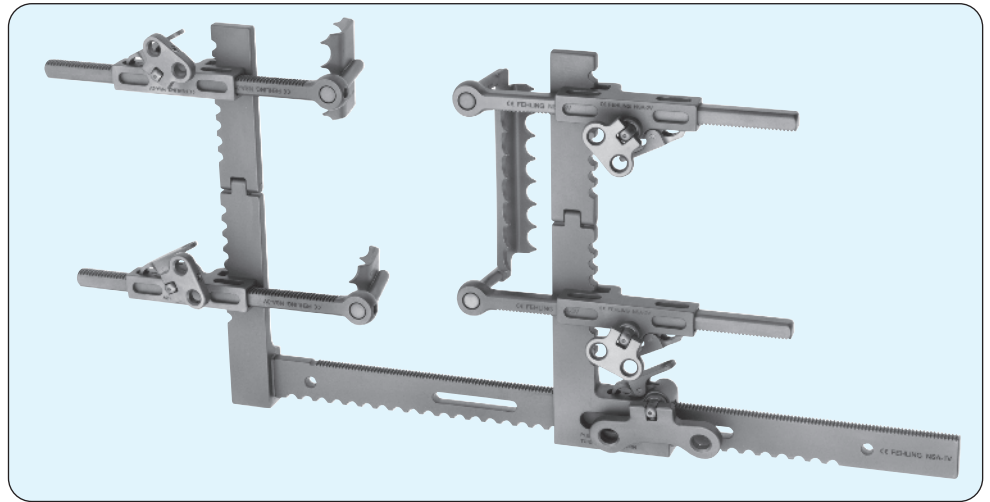
TITANIUM

SOFT TISSUE RETRACTORS
WEICHTEILRETRAKTOREN

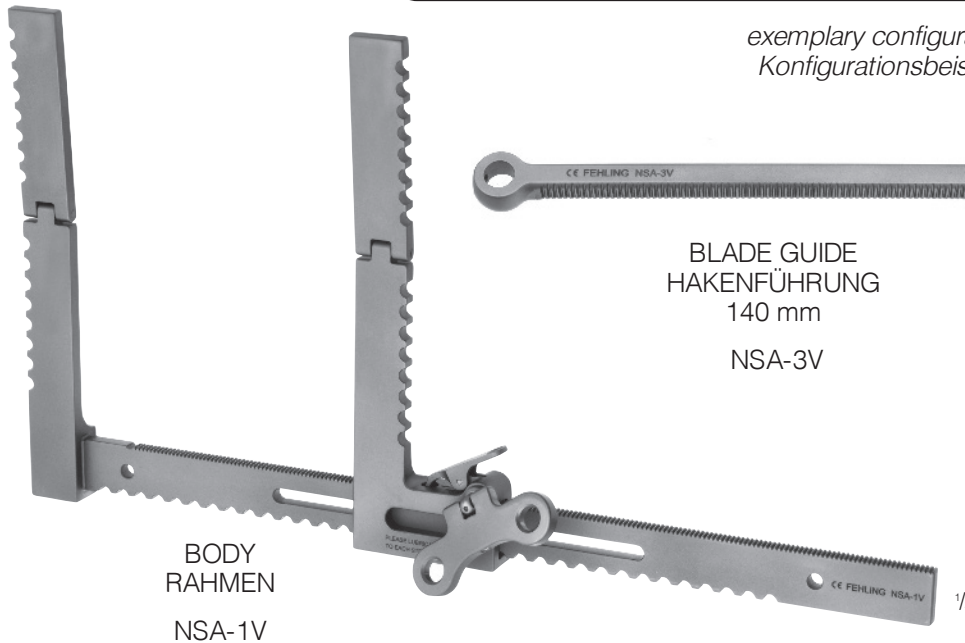


POLYTEL
TITANIUM

COMPONENTS / KOMPONENTEN



exemplary configuration
Konfigurationsbeispiel

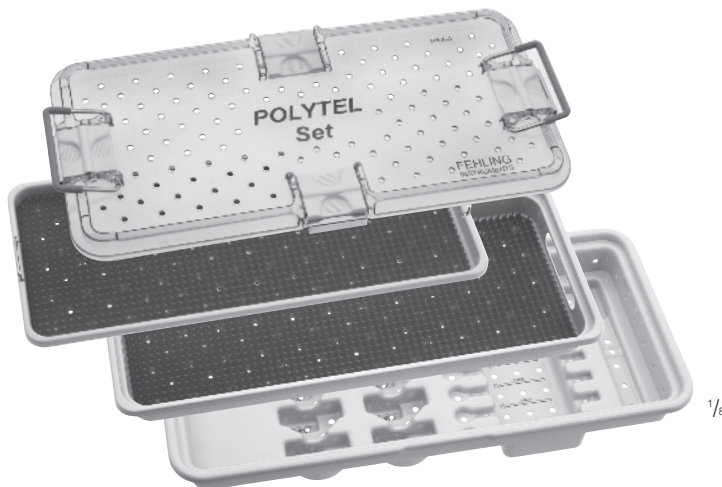


BODY
RAHMEN
NSA-1V

BLADE GUIDE
HAKENFÜHRUNG
140 mm
NSA-3V



COUPLING RIDER
FIXIERSCHLITTEN
NSA-2V



POLYTEL
STERILISATION AND STORAGE TRAY
STERILISIER- UND LAGERCONTAINER
530 x 250 x 100 mm

NSX-0



BODY JOINT STABILIZER
RAHMENGelenkstabilisator
NSA-5



BLADE EJECTOR
BLATTENTFERNER
115 mm
NGM-6

ATLAS

CERVICAL RETRACTOR
HWS-SPREIZER

See retracting blades for ATLAS on pages 2/42, 43
Halteblätter für ATLAS auf Seite 2/42, 43



LONGITUDINAL
LÄNGSVERSION

NHL-1



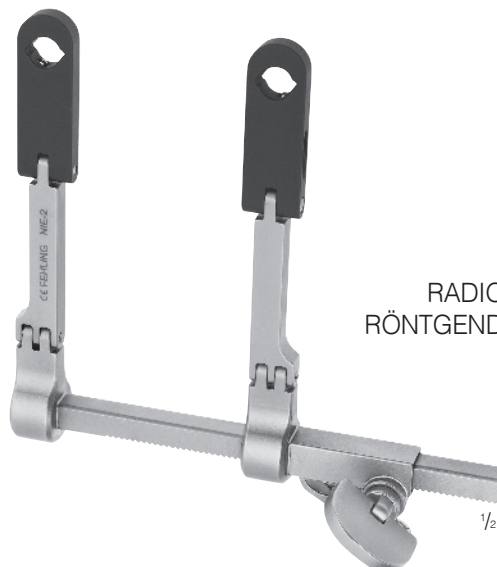
TRANSVERSAL
QUERVERSION

NHK-9



PEEK CONNECTION ELEMENTS, RADIOLOGIC
PEEK ENDGLIEDER, RÖNTGENDURCHLÄSSIG

NIE-1



PEEK CONNECTION ELEMENTS, RADIOLOGIC
PEEK ENDGLIEDER, RÖNTGENDURCHLÄSSIG

NIE-2



PEEK

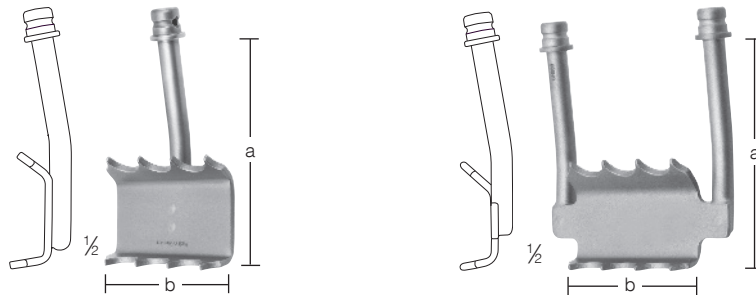
RADIOLOGIC HANDLE
RÖNTGENDURCHLÄSSIGER GRIFF
NIG-1

POLYTEL/ATLAS

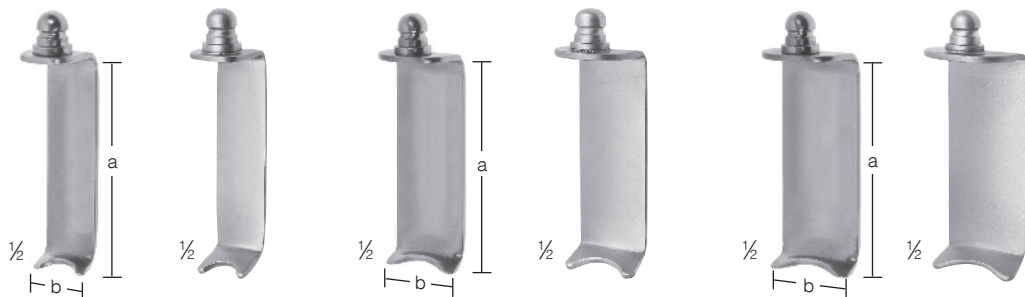
TITANIUM

RETRACTING BLADES / HALTEBLÄTTER*

PARAFASCIAL BLADES
PARAFASCIAL-BLÄTTER



DEPTH TIEFE a	ROTATABLE / DREHBAR		FIXED / STARR	
	b = 25 mm	b = 40 mm	b = 40 mm	b = 80 mm
40 mm	NSS-6	NSM-6	NSO-6	NSP-6
60 mm	NSS-7	NSM-7	NSO-7	NSP-7
80 mm	NSS-8	NSM-8	NSO-8	NSP-8
100 mm	NSS-9	NSM-9	NSO-9	NSP-9
120 mm	NSU-9	NST-9	–	NSK-8
140 mm	NSS-0	–	–	–



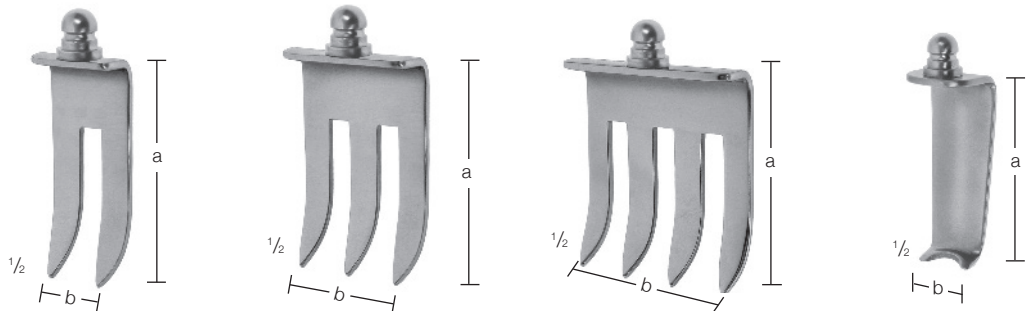
DEPTH TIEFE a	WIDTH / BREITE b					
	15 mm		20 mm		24 mm	
	POINTED SCHARF	BLUNT STUMPF	POINTED SCHARF	BLUNT STUMPF	POINTED SCHARF	BLUNT STUMPF
20 mm	–	NSR-8	–	–	–	NSG-8
25 mm	–	NSR-9	NSL-8	NST-8	NSF-8	NSG-9
30 mm	NSO-0	NSN-0	NSP-0	NSY-4	NSM-0	NSH-8
35 mm	NSB-0	NSN-1	NSL-0	NST-0	NSF-0	NSH-0
40 mm	NSO-1	NSN-2	NSP-1	NSY-5	NSM-1	NSH-9
45 mm	NSB-1	NSN-3	NSL-1	NST-1	NSF-1	NSH-1
50 mm	NSO-2	NSN-4	NSP-2	NSY-6	NSM-2	NSQ-8
55 mm	NSB-2	NSN-5	NSL-2	NST-2	NSF-2	NSH-2
60 mm	NSO-3	NSN-6	NSP-3	NSQ-7	NSM-3	NSQ-9
65 mm	NSB-3	NSN-7	NSL-3	NST-3	NSF-3	NSH-3
70 mm	NSO-4	NSN-8	NSP-4	–	NSM-4	NSQ-0
75 mm	NSB-4	NSN-9	NSL-4	NST-4	NSF-4	NSH-4
80 mm	NSO-5	–	–	–	NSM-5	–
85 mm	NSB-5	–	NSL-5	NST-5	NSF-5	NSH-5
95 mm	NSB-6	–	NSL-6	NST-6	NSF-6	NSH-6
105 mm	NSB-7	–	NSL-7	NST-7	NSF-7	NSH-7

*auxiliary tool: blade ejector NGM-6 see page 2/40

*Hilfsmittel: Blattentferner NGM-6 siehe Seite 2/40

POLYTEL/ATLAS
TITANIUM

RETRACTING BLADES / HALTEBLÄTTER*



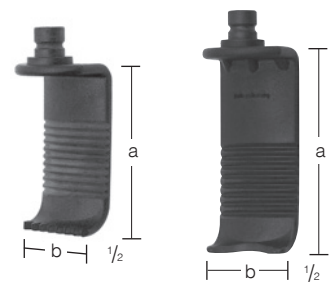
DEPTH TIEFE a	POINTED / SCHARF			CONIC / KONISCH
	WIDTH / BREITE b			
	24 mm	40 mm	56 mm	15 mm
25 mm	–	NSI-8	–	–
35 mm	NSR-0	NSI-0	NSK-0	NSG-0
45 mm	NSR-1	NSI-1	NSK-1	NSG-1
55 mm	NSR-2	NSI-2	NSK-2	NSG-2
65 mm	NSR-3	NSI-3	NSK-3	NSG-3
75 mm	NSR-4	NSI-4	NSK-4	NSG-4
85 mm	NSR-5	NSI-5	NSK-5	NSG-5
95 mm	NSR-6	NSI-6	NSK-6	NSG-6
105 mm	NSR-7	NSI-7	NSK-7	NSG-7

SPINOUS PINS
WIRBELDORNE



DEPTH TIEFE a	
25 mm	NSC-8
30 mm	NSC-9
35 mm	NSC-1
40 mm	NSC-2
45 mm	NSC-3
50 mm	NSC-4
55 mm	NSC-5

PEEK
RADIOLUCENT
RÖNTGENDURCHLÄSSIG



DEPTH TIEFE a	POINTED SCHARF	BLUNT STUMPF
	b = 23 mm	
40 mm	NIE-4	NIF-2
45 mm	NIE-5	NIF-3
50 mm	NIE-6	NIF-4
55 mm	NIE-7	NIF-5
60 mm	NIE-8	NIF-6
65 mm	NIE-9	NIF-7
70 mm	–	NIG-2
75 mm	NIF-0	NIF-8
80 mm	–	NIG-3
90 mm	–	NIG-4

*auxiliary tool: blade ejector NGM-6 see page 2/40

*Hilfsmittel: Blattentferner NGM-6 siehe Seite 2/40

ATLAS SIDE LOAD

CERVICAL SPINE RETRACTOR
HWS-SPREIZER



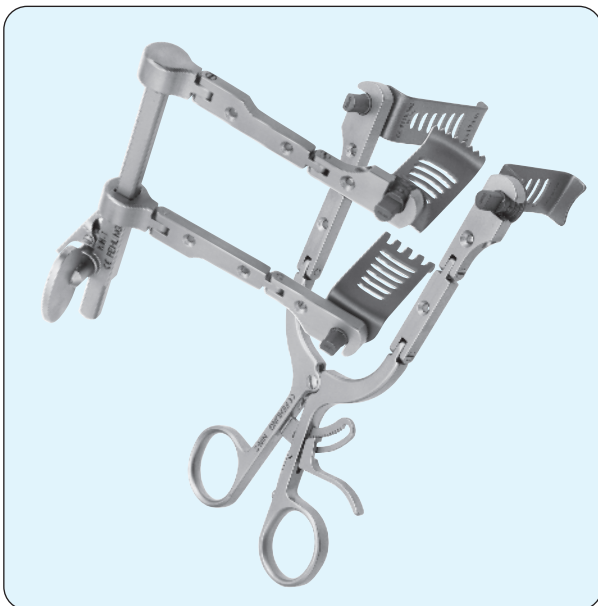
LONGITUDINAL
LÄNGSVERSION

NIN-2



TRANSVERSAL
QUERVERSION

NIN-1



*exemplary configuration
Konfigurationsbeispiel*

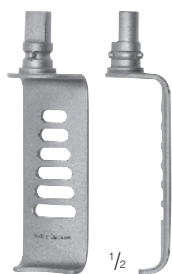


HANDLE
HANDGRIFF

NIN-3K

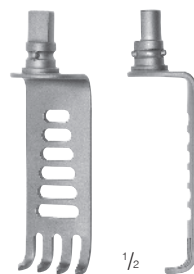
ATLAS SIDE LOAD
TITANIUM

BLADES
BLÄTTER



BLUNT
STUMPF

(LONGITUDINAL)



TOOTHED
GEZAHNT

(MEDIAL/LATERAL)

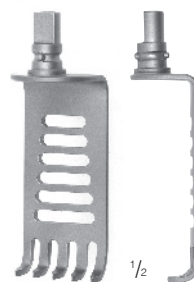
DEPTH TIEFE	WIDTH BREITE	
	19 mm	24 mm
25 mm	NIJ-1	–
30 mm	NIJ-2	–
35 mm	NIJ-3	NIM-1
40 mm	NIJ-4	NIM-2
45 mm	NIJ-5	NIM-3
50 mm	NIJ-6	NIM-4
55 mm	NIJ-7	NIM-5
60 mm	NIJ-8	NIM-6
65 mm	–	NIM-7
70 mm	–	NIM-8
75 mm	–	NIM-9

DEPTH TIEFE	WIDTH BREITE 19 mm
25 mm	NII-1
30 mm	NII-2
35 mm	NII-3
40 mm	NII-4
45 mm	NII-5
50 mm	NII-6
55 mm	NII-7
60 mm	NII-8



SERRATED
GEZAHNT

(LATERAL)



TOOTHED
GEZAHNT

(MEDIAL)

DEPTH TIEFE	WIDTH BREITE 24 mm
30 mm	NIK-1
35 mm	NIK-2
40 mm	NIK-3
45 mm	NIK-4
50 mm	NIK-5
55 mm	NIK-6
60 mm	NIK-7
65 mm	NIK-8
70 mm	NIK-9

DEPTH TIEFE	WIDTH BREITE 24 mm
30 mm	NIL-1
35 mm	NIL-2
40 mm	NIL-3
45 mm	NIL-4
50 mm	NIL-5
55 mm	NIL-6
60 mm	NIL-7
65 mm	NIL-8
70 mm	NIL-9



LEFT TYPE
LINKSMODELL

170 mm

SCHUL
MICRO DISCECTOMY RETRACTOR
MIKRODISKEKTOMIESPREIZER

BLADE SIZE BLATTGRÖSSE a x b	LEFT LINKS	RIGHT RECHTS
40 x 10 mm	NDM-1	NDM-2
50 x 10 mm	NDM-3	NDM-4
60 x 10 mm	NDM-5	NDM-6
70 x 10 mm	NDM-7	NDM-8
50 x 20 mm	NDP-1	NDP-2
60 x 20 mm	NDP-3	NDP-4
70 x 20 mm	NDP-5	NDP-6



RIGHT TYPE
RECHTSMODELL

170 mm



LEFT TYPE
LINKSMODELL

180 mm

CERAMO® FEIGL
MICRO DISCECTOMY RETRACTOR
MIKRODISKEKTOMIESPREIZER

BLADE SIZE BLATTGRÖSSE a x b/c	LEFT TYPE LINKS	RIGHT TYPE RECHTS
40 x 10/15 mm	FBA-1C	FBB-1C
50 x 10/15 mm	FBA-2C	FBB-2C
60 x 10/15 mm	FBA-3C	FBB-3C
70 x 15/20 mm	FBA-4C	FBB-4C
80 x 15/20 mm	FBA-5C	FBB-5C
90 x 15/20 mm	FBA-6C	FBB-6C
100 x 15/20 mm	FBA-7C	FBB-7C



RIGHT TYPE
RECHTSMODELL

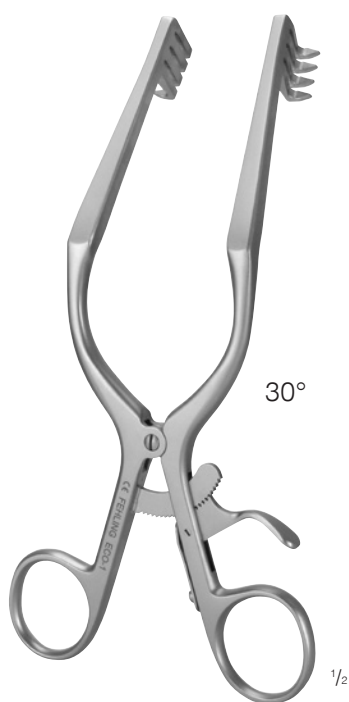
180 mm



BLADE SIZE BLATTGRÖSSE a x b	
50 x 10 mm	NDQ-8
60 x 10 mm	NDQ-6
70 x 10 mm	NDQ-7
80 x 10 mm	NDQ-9

FOR TRANSMUSCULAR ACCESS
FÜR TRANSMUSKULÄREN ZUGANG

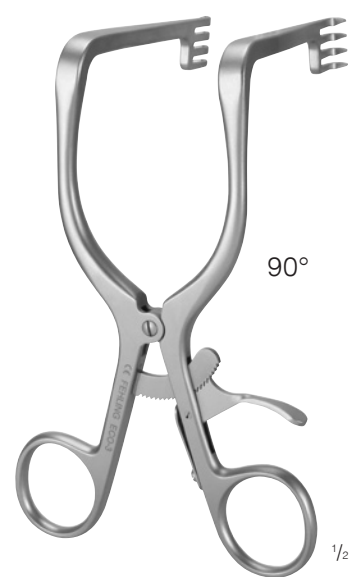
WINKING
170 mm



190 mm
ECO-1



170 mm
ECO-2



150 mm
ECO-3

CERAMO® CONCEPT

MICRO DISCECTOMY SPECULUM MIKRODISKEKTOMIESPEKULUM



*exemplary configuration
Konfigurationsbeispiel*



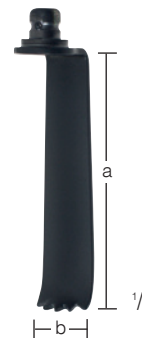
SPECULUM
SPEKULUM

DEPTH TIEFE	
45 mm	NVH-1V
55 mm	NVH-2V
65 mm	NVH-3V
75 mm	NVH-4V
85 mm	NVH-5V
95 mm	NVH-6V

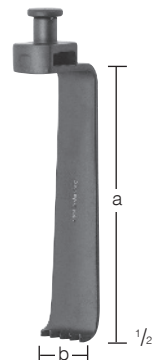
BLADES FOR COUNTER RETRACTOR*
BLÄTTER FÜR GEGENSPERRER*



COUNTER RETRACTOR
GEGENSPERRER
NVH-9V



LATERAL



MEDIAL

DEPTH TIEFE	a	b = 15 mm
35 mm		NVK-6V
40 mm		NVI-0V
45 mm		NVI-1V
50 mm		NVI-6V
55 mm		NVI-2V
60 mm		NVI-7V
65 mm		NVI-3V
75 mm		NVI-4V
85 mm		NVI-5V
95 mm		NVI-8V

DEPTH TIEFE	a	b = 15 mm
40 mm		NVW-1
45 mm		NVW-2
50 mm		NVW-3
55 mm		NVW-4
60 mm		NVW-5
65 mm		NVW-6
70 mm		NVW-7

*auxiliary tool: blade ejector NGM-6
see page 2/40

*Hilfsmittel: Blattentferner NGM-6
siehe Seite 2/40

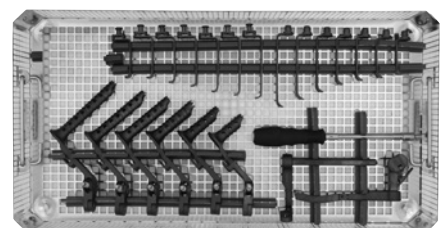


CARDAN SCREWDRIVER
KARDAN SCHRAUBENDREHER
LMT-4



HEXAGON WRENCH
FOR SPECULUM
SECHSKANTSCHLÜSSEL
FÜR SPEKULUM

NVG-9

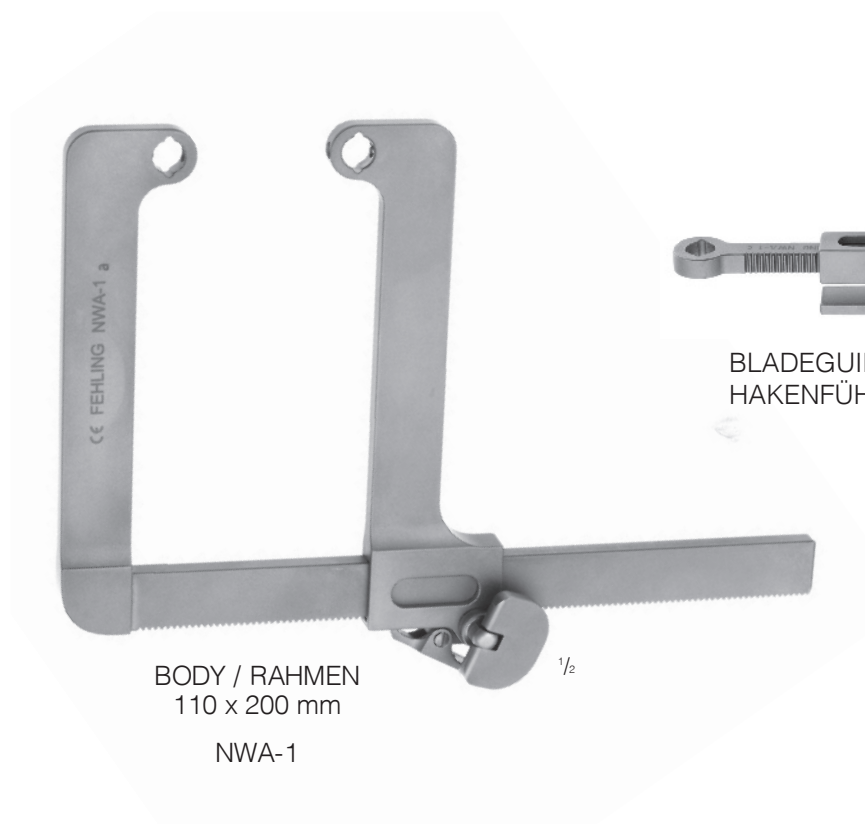


STERILISATION AND STORAGE TRAY
STERILISIER- UND LAGERCONTAINER
480 x 250 x 70 mm

NVH-0V

RAABE
TITANIUM

HEMI-LAMINECTOMY RETRACTOR
HEMILAMINEKTOMIESPREIZER

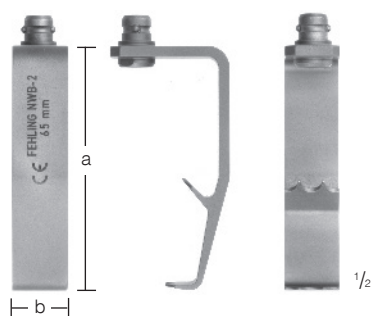


BODY / RAHMEN
110 x 200 mm

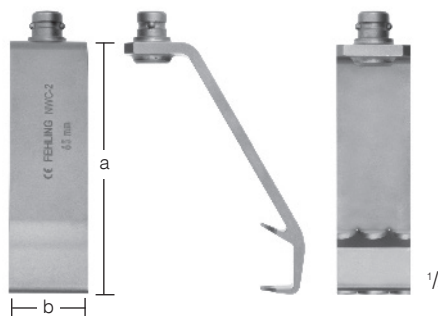
NWA-1



BLADEGUIDE (included in NWA-1)
HAKENFÜHRUNG (beinhaltet in NWA-1)



MUSCLE BLADES*
MUSKELBLÄTTER*



"CROSS-OVER"
MUSCLE BLADES*
MUSKELBLÄTTER*



CRANIAL-CAUDAL PINS (PAIR)*
CRANIAL-CAUDAL SPREIZPINS (PAAR)*

BLADE SIZE BLATTGRÖSSE a x b	
50 x 15 mm	NWB-1
65 x 15 mm	NWB-2
80 x 15 mm	NWB-3
95 x 15 mm	NWB-4
50 x 30 mm	NWB-5
65 x 30 mm	NWB-6
80 x 30 mm	NWB-7
95 x 30 mm	NWB-8

BLADE SIZE BLATTGRÖSSE a x b	
50 x 20 mm	NWC-1
65 x 20 mm	NWC-2
80 x 20 mm	NWC-3
95 x 20 mm	NWC-4

DEPTH TIEFE a	
35 mm	NWA-2
45 mm	NWA-3
55 mm	NWA-4

*auxiliary tool: blade ejector NGM-6 see page 2/40

*Hilfsmittel: Blattentferner NGM-6 siehe Seite 2/40

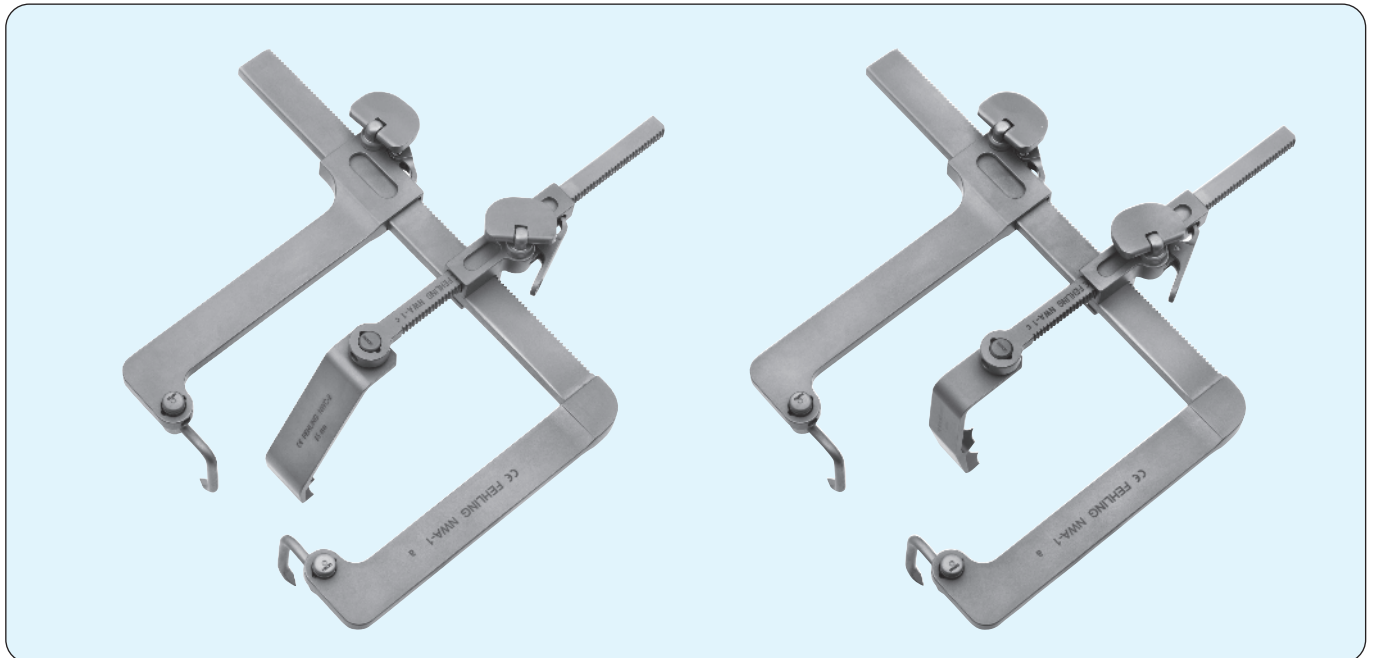
RAABE
TITANIUM

HEMI-LAMINECTOMY RETRACTOR
HEMILAMINEKTOMIESPREIZER



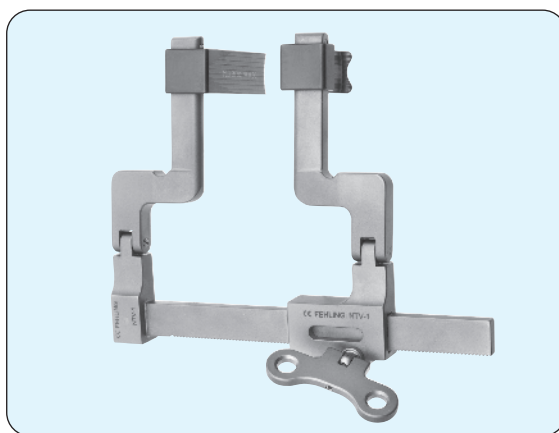
STERILISATION AND STORAGE TRAY
STERILISIER- UND LAGERCONTAINER
400 x 260 x 50 mm

NWA-0



*exemplary configuration
Konfigurationsbeispiel*

DOERNER
TITANIUM

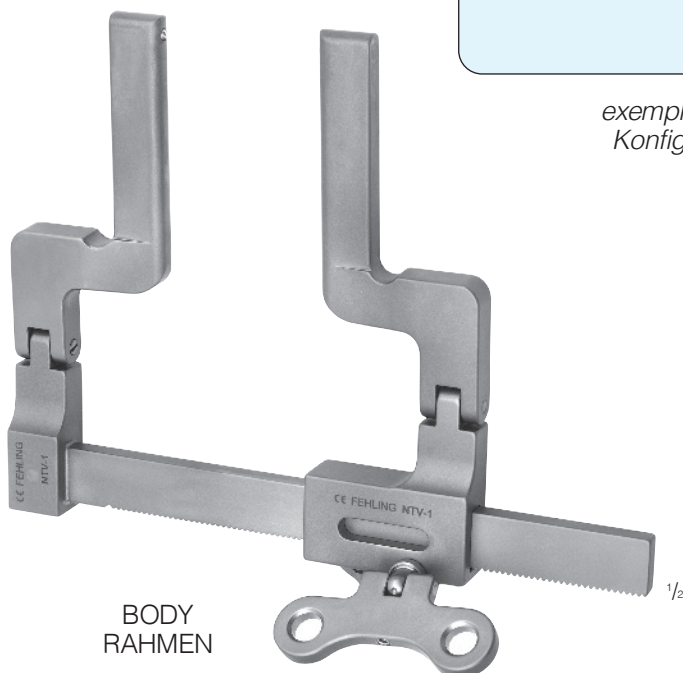


exemplary configuration
Konfigurationsbeispiel



CERAMO®
BLADES (PAIR)
BLÄTTER (PAAR)

DEPTH LÄNGE a	WIDTH / BREITE b	
	20 mm	30 mm
40 mm	NTT-0	NTT-6
50 mm	NTT-1	NTT-7
60 mm	NTT-2	NTT-8
70 mm	NTT-3	NTT-9
80 mm	NTT-4	NTU-0
100 mm	NTT-5	NTU-1
120 mm	NTU-3	NTU-2



BODY
RAHMEN

FOR 1-2 SEGMENTS
FÜR 1-2 SEGMENTE

NTV-1

FOR 1-4 SEGMENTS
FÜR 1-4 SEGMENTE

NTV-0

CERAMO®
SPINOUS PINS
WIRBELDORNE

	DEPTH TIEFE a	
	20 mm	NTR-9
	30 mm	NTS-0
	40 mm	NTS-1
	50 mm	NTS-2
	60 mm	NTS-4
	70 mm	NTS-6
	80 mm	NTS-8

	DEPTH TIEFE a	
	30 mm	NTV-2
	40 mm	NTV-3
	50 mm	NTS-3
	60 mm	NTS-5
	70 mm	NTS-7
	80 mm	NTS-9

HEY

DISCECTOMY RETRACTOR
DISKEKTOMIESPREIZER



BODY
RAHMEN
NCL-4



SPINOUS PINS*
WIRBELDORNE*

DEPTH TIEFE	a	
32 mm		NFR-7
37 mm		NCL-8
53 mm		NCL-9
62 mm		NCM-1

*auxiliary tool: blade ejector NGM-6 see page 2/40
*Hilfsmittel: Blatentferner NGM-6 siehe Seite 2/40



BLADES, POINTED*
BLÄTTER, SCHARF*

DEPTH TIEFE	a	b = 20 mm
40 mm		NEG-6
50 mm		NCL-5
60 mm		NCL-6
70 mm		NCL-7



exemplary configuration
Konfigurationsbeispiel



DEPTH TIEFE a	
35 mm	NHY-5
50 mm	NHY-9
65 mm	NHY-0

MAYER
SPINOUS DISTRACTOR
DORNDISTRAKTOR

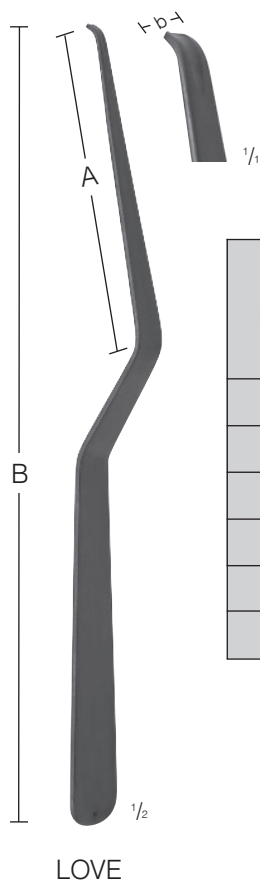


WIDTH BREITE	DEPTH /TIEFE a			
	65 mm	100 mm	120 mm	160 mm
3 mm	NDH-2	NDW-2	NEH-1	NEH-0
		NOW-1		
5 mm	NDH-3	NDW-3	NEH-2	NEH-4
		NOW-2	NOV-8	
7 mm	NDH-4	NDW-4	NEH-3	-
		NOW-3	NOV-9	

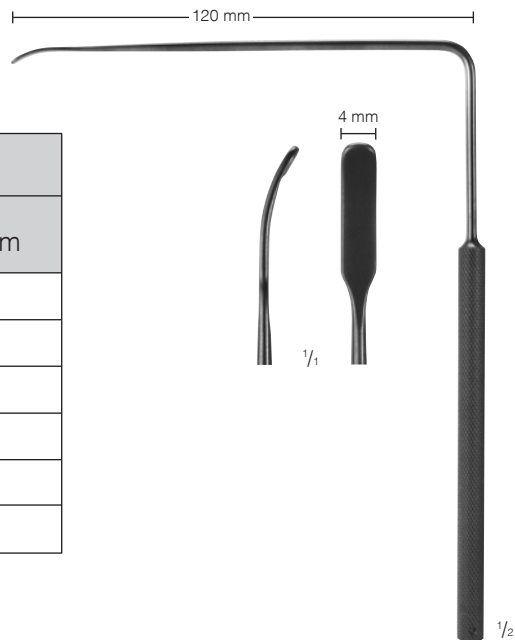
LOVE (MODIF.)
NERVE ROOT RETRACTOR
NERVWURZELHAKEN

CERAMO®

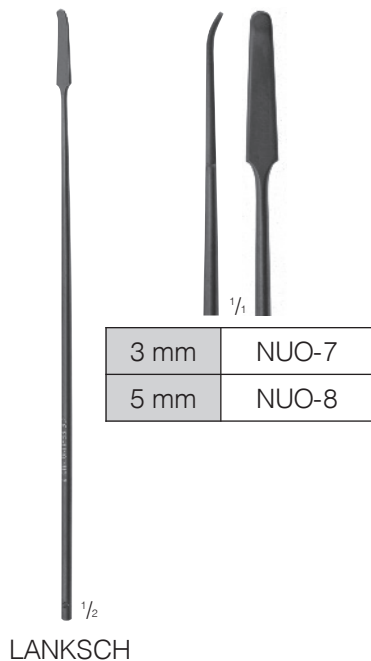
CERAMO®



WIDTH BREITE -b-	LENGTH/LÄNGE A/B	
	80/120 mm	160/290 mm
3 mm	NDH-1	NDI-9
5 mm	NDH-0	NDJ-0
7 mm	NDI-1	—
9 mm	NDI-2	—
11 mm	NDI-3	—
13 mm	NDI-4	—



RAABE
4 x 120 mm
NUX-5G



3 mm	NUO-7
5 mm	NUO-8

LANKSCH

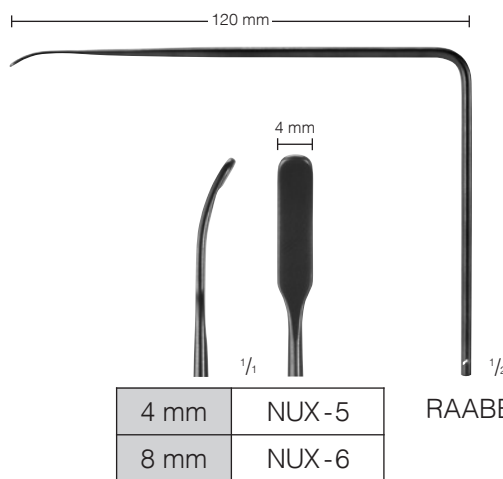


ROUND
RUND
ABB-1



FLAT
FLACH
ABB-1F

HANDLES
GRIFFE



4 mm	NUX-5
8 mm	NUX-6

RAABE

Your Distributor

Please note that not all products are available in every country.

The dimensions listed in the catalog are nominal measurements. Actual values may differ slightly due to variations in production.