

**SPINAL SURGERY**

**WIRBELSÄULEN CHIRURGIE**

## Spinal Instrumentation System



<b>T 1300</b>	Suggested selection for Basic Set	
<b>19E-101.01</b>	1/1 Standard-Container, silver, 580 x 280 x 135 mm	
<b>T 130</b>	Upper Tray	
<b>T 131</b>	Lower Tray	
<b>13-1000</b>	Distraction Rod	1 piece
<b>13-1004</b>	Distraction Rod	1 piece
<b>13-1008</b>	Distraction Rod	1 piece
<b>13-1012</b>	Distraction Rod	1 piece
<b>13-1016</b>	Distraction Rod	1 piece
<b>13-1040</b>	Distraction Rod	1 piece
<b>13-1044</b>	Distraction Rod	1 piece
<b>13-1048</b>	Distraction Rod	1 piece
<b>13-1028</b>	Distraction Rod	2 pieces
<b>13-1032</b>	Distraction Rod	2 pieces
<b>13-1036</b>	Distraction Rod	3 pieces
<b>13-1020</b>	Distraction Rod	3 pieces
<b>13-1024</b>	Distraction Rod	3 pieces
<b>13-1078</b>	Distraction Hooks for Collar Ends sharp	6 pieces
<b>13-1080</b>	Distraction Hooks for Collar Ends blunt	6 pieces
<b>13-1070</b>	Distraction Hooks for Ratchet Ends sharp	12 pieces
<b>13-1072</b>	Distraction Hooks for Ratchet Ends blunt	4 pieces
<b>13-1074</b>	Distraction Hooks for Ratchet Ends sharp with rib	12 pieces
<b>13-1076</b>	Distraction Hooks for Ratchet Ends blunt with rib	4 pieces
<b>13-1150</b>	Compression Hooks for Threaded Distraction Rod ( <b>13-1120</b> ) sharp	18 pieces
<b>13-1152</b>	Compression Hooks for Threaded Distraction Rod ( <b>13-1120</b> ) blunt	18 pieces
<b>13-1190</b>	Compression Hooks for Threaded Distraction Rod ( <b>13-1160</b> ) sharp	6 pieces
<b>13-1086</b>	"C" Washer for Ratched End	6 pieces
<b>13-1112</b>	Eyelet for Sacral Rod	2 pieces
<b>13-1100</b>	Threaded Sacral Rod diam. 6,4 mm with trocar point 203 mm	1 piece
<b>13-1110</b>	Sacral Rod Nut dia. 6,4 mm	4 pieces
<b>13-1120</b>	Threaded Distraction Rod dia. 4,8 mm	6 pieces
<b>13-1126</b>	Hex Nut for <b>13-1120</b>	12 pieces
<b>13-1160</b>	Threaded Compression Rod dia. 3,2 mm	6 pieces
<b>13-1166</b>	Hex Nut for <b>13-1160</b>	12 pieces

## Instrumentarium zur Skoliose- und Wirbelsäulenfrakturbehandlung Instrumentation for the Treatment of Scoliotic and Fractured Spine

Distraktionsstange  
ø 6.4 mm  
Länge 0 - 356 mm

Distraction Rod  
diam. 6.4 mm  
length 0 - 356 mm



Catalog No.	13-1000	13-1004	13-1008	13-1012	13-1016	13-1020	13-1024	13-1028
Länge / Length	0 mm	25 mm	51 mm	76 mm	102 mm	127 mm	152 mm	179 mm
Catalog No.	13-1032	13-1036	13-1040	13-1044	13-1048	13-1050	13-1052	13-1056
Länge / Length	203 mm	229 mm	254 mm	279 mm	305 mm	318 mm	330 mm	356 mm

Länge gemessen vom Bundende bis zu ersten Kerbe  
Length measured from collar to first ratchet

Andere Längen lieferbar auf Anfrage  
Additional length available on request

### Distraction Hooks for use at round end (Collar End) of distraction rods



13-1078  
Sharp



13-1080  
Blunt



13-1086  
Washer

### Distraction Hooks for Ratchet End



13-1070  
Sharp



13-1072  
Blunt



13-1074  
Sharp  
with rib



13-1076  
Blunt  
with rib



Threaded Sacral Rod with trocar point diam. 6.4 mm  
13-1100 203 mm long  
13-1102 302 mm long



13-1110  
Sacral Rod Nut  
Thread dia: ¼ in. (6.4 mm)



13-1112  
Eyelet for connection of  
Sacral Rod with Distraction Rod

## Instrumentarium zur Skoliose- und Wirbelsäulenfrakturbehandlung Instrumentation for the Treatment of Scoliotic and Fractured Spine



13-1120 Threaded Compression Rod diam. 4.8 mm length 254 mm complete with 6 nuts

**Compression Hooks  
for use with Threaded Compression  
Rod of 4.8 mm diam.**



13-1150  
Sharp



13-1152  
Blunt



13-1126  
Hex Nut only



13-1160 Threaded Compression Rod diam. 3.2 mm length 254 mm complete with 6 Nuts

**Compression Hook  
for use with Threaded Compression  
Rod of 3,2 mm diam.**

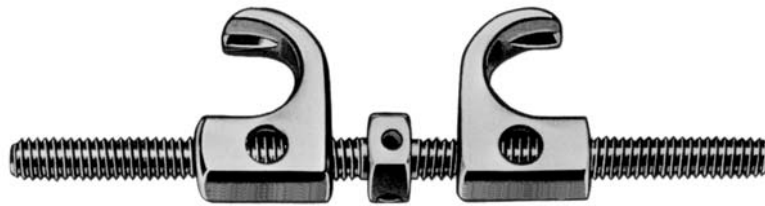


13-1190  
Sharp



13-1166  
Hex Nut only

**Spinal Instrumentation System**



**Distraction - Fusion - Instrumentation**

Cat. No.	Rod Length	
	Inch	cm
13-1330	1 <sup>3</sup> / <sub>16</sub>	3
13-1332	1 <sup>9</sup> / <sub>16</sub>	4
13-1334	2	5
13-1336	2 <sup>3</sup> / <sub>8</sub>	6
13-1338	2 <sup>3</sup> / <sub>4</sub>	7
13-1340	3 <sup>1</sup> / <sub>8</sub>	8
13-1342	3 <sup>9</sup> / <sub>16</sub>	9
13-1344	4	10

## Spinal Instrumentation System



<b>T 1302</b>	Instrumentation Set	
<b>19E-101.01</b>	1/1 Standard-Container, silver, 580 x 280 x 135 mm	
<b>T 132</b>	Upper Tray	
<b>T 133</b>	Lower Tray	
<b>13-1468</b>	Distraction Rod Clamp	1 piece
<b>13-1470</b>	Hook Clamp Single Locator	1 piece
<b>13-1472</b>	Hook Clamp Double Locator	1 piece
<b>13-1450</b>	Distraction Rod Driver, straight	1 piece
<b>13-1452</b>	Distraction Rod Driver, curved	1 piece
<b>13-1454</b>	Distraction Rod Driver, straight	1 piece
<b>13-1456</b>	Distraction Rod Driver, curved	1 piece
<b>13-1510</b>	Outrigger Distraction Unit	1 piece
<b>13-1482</b>	French Rod Bender	1 piece
<b>7-444</b>	Rod Cutter, large	1 piece
<b>7-446</b>	Rod Cutter, small	1 piece
<b>13-1480</b>	"C" Spreader	1 piece
<b>13-1474</b>	"C" Washer Clincher	1 piece
<b>13-1500</b>	Small Threaded Rod Clamp	2 pieces
<b>13-1460</b>	Flat wrench	1 piece

Spinal Instrumentation System



13-1450  
Driver straight  
for Large Hooks



13-1452  
Driver curved  
for Large Hooks



13-1454  
Driver straight  
for Small Hooks



13-1456  
Driver curved  
for Small Hooks



13-1460  
Flat wrench  
for Sacral Nuts



13-1468  
Distraction  
Rod Clamp



13-1470  
Hook Clamp  
Single Locator



13-1472  
Hook Clamp  
Double Locator



13-1474  
"C" Ring Clincher



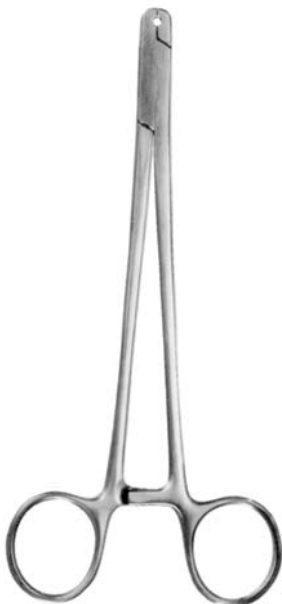
**13-1480**  
**"C" Spreader**



**13-1482**  
**French Rod Bender**



**Spinal Elevators**  
**13-1490** 9 mm broad  
**13-1492** 13 mm broad  
**13-1494** 16 mm broad  
**13-1496** 19 mm broad



**13-1500**  
**Small Threaded**  
**Rod Clamp**



**13-1502**  
**Large Threaded**  
**Rod Clamp**



**13-1510**  
**Outrigger Distraction**  
**Unit**





**7-444**  
Rod Cutter large  
54,0 cm



**7-446**  
Rod Cutter small  
46,0 cm



**7-422**  
Wire Cutter  
soft wire 2,4 mm  
hard wire 1,8 mm



**16E-525.22**  
Wire Cutter, 22,0 cm TC  
soft wire 3,0 mm  
hard wire 2,5 mm



**13-1504**  
Rod Gripper , 20,0 cm

## Roy Camille Spinal Instrumentation System

### Dorsal - Lumbar Plates curved



Cat. No.	Holes	Length
13-2000	4	49
13-2002	5	62
13-2004	7	90
13-2006	9	114
13-2008	11	140
13-2010	13	166
13-2012	15	192
13-2014	17	218
13-2016	19	244
13-2018	21	270



Dia of thread	4,5 mm	4,0 mm
Dia of core	3,0 mm	1,9 mm
Dia of head	8,0 mm	6,0 mm
Length	Cat. No.	Cat. No.
14 mm	3-200	4-144
16 mm	3-202	4-146
18 mm	3-204	4-148
20 mm	3-206	4-150
22 mm	3-208	4-152
24 mm	3-210	4-154
26 mm	3-212	4-156
28 mm	3-214	4-158
30 mm	3-216	4-160
32 mm	3-218	
34 mm	3-220	
36 mm	3-222	
38 mm	3-224	
40 mm	3-226	
42 mm	3-228	
44 mm	3-230	
46 mm	3-232	
48 mm	3-234	
50 mm	3-236	

### Cervical Plates straight



Cat. No.	Holes	Length
13-2040	2	23
13-2042	3	36
13-2044	4	49
13-2046	5	62

### Cervical Spinal Plates



Cat. No.	Holes	Size
13-2050	1	small
13-2052	2	medium
13-2054	3	large

**Small Plates for Cervical Spine**  
**For Screws with 2,7 mm and 3,5 mm diameter**



Cat. No.	Holes	Size	Length
13-2200	5	16 mm	23 mm
13-2202	5	18 mm	25 mm
13-2204	5	21 mm	28 mm
13-2206	8	16 + 18 mm	41 mm
13-2208	8	18 + 21 mm	46 mm
13-2210	11	16 + 18 + 18 mm	59 mm



Cat. No.	Holes	Size	Length
13-2212	20	16 mm	103 mm
13-2214	20	18 mm	115 mm
13-2216	20	21 mm	133 mm

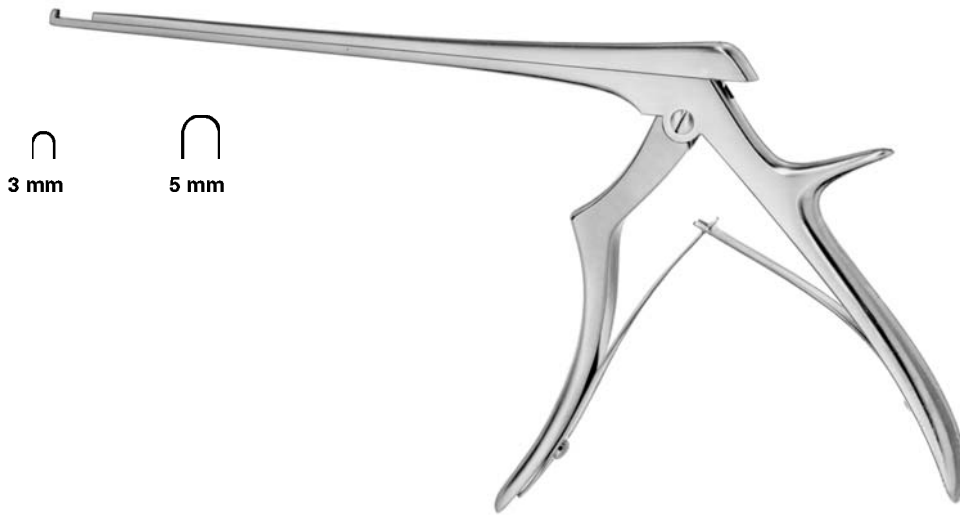


13-2250 28 mm    13-2252 30 mm    13-2254 32 mm    13-2256 37 mm



13-2258 40 mm    13-2260 44 mm    13-2262 46 mm    13-2264 48 mm    13-2266 50 mm    13-2268 54 mm    13-2270 60 mm    13-2272 66 mm    13-2274 72 mm

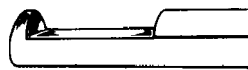
## Neurochirurgie Neuro Surgery



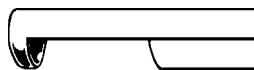
Schlesinger Cervical Rongeur

### Schlesinger Cervical Rongeur

<b>90° nach oben schneidend up - cutting</b>	
<b>Schaft / Shaft</b>	<b>200 mm</b>
<b>Maul / Bite 3 mm</b>	<b>13-3004</b>
<b>Maul / Bite 5 mm</b>	<b>13-3006</b>



<b>90° nach unten schneidend down - cutting</b>	
<b>Schaft / Shaft</b>	<b>200 mm</b>
<b>Maul / Bite 3 mm</b>	<b>13-3014</b>
<b>Maul / Bite 5 mm</b>	<b>13-3016</b>



<b>40° nach oben schneidend up - cutting</b>	
<b>Schaft / Shaft</b>	<b>200 mm</b>
<b>Maul / Bite 3 mm</b>	<b>13-3024</b>
<b>Maul / Bite 5 mm</b>	<b>13-3026</b>



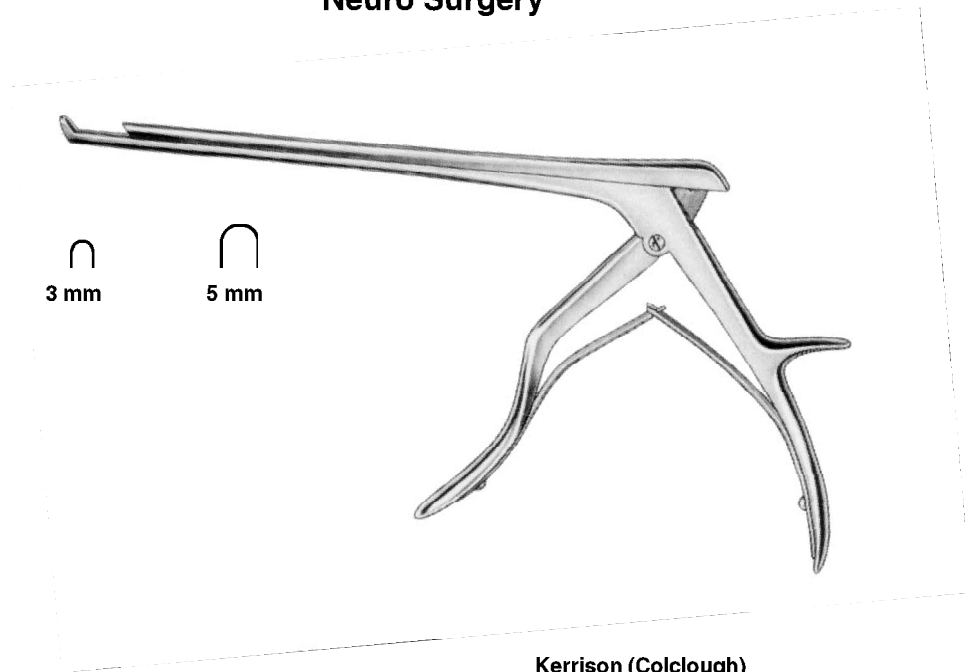
### Micro - Kerrison

<b>90° nach oben schneidend up - cutting</b>	
<b>Schaft / Shaft</b>	<b>180 mm</b>
<b>Maul / Bite 1 mm</b>	<b>13-3010</b>
<b>Maul / Bite 2 mm</b>	<b>13-3012</b>

<b>90° nach unten schneidend down - cutting</b>	
<b>Schaft / Shaft</b>	<b>180 mm</b>
<b>Maul / Bite 1 mm</b>	<b>13-3018</b>
<b>Maul / Bite 2 mm</b>	<b>13-3020</b>

<b>40° nach oben schneidend up - cutting</b>	
<b>Schaft / Shaft</b>	<b>180 mm</b>
<b>Maul / Bite 1 mm</b>	<b>13-3028</b>
<b>Maul / Bite 2 mm</b>	<b>13-3030</b>

Neurochirurgie  
Neuro Surgery



40°  
nach oben schneidend  
up - cutting

Schaft / Shaft      200 mm

Maul / Bite 3 mm      13-3050

Maul / Bite 5 mm      13-3052

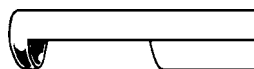


90°  
nach oben schneidend  
up - cutting

Schaft / Shaft      200 mm

Maul / Bite 3 mm      13-3054

Maul / Bite 5 mm      13-3056



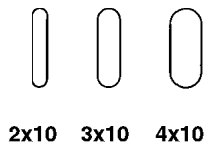
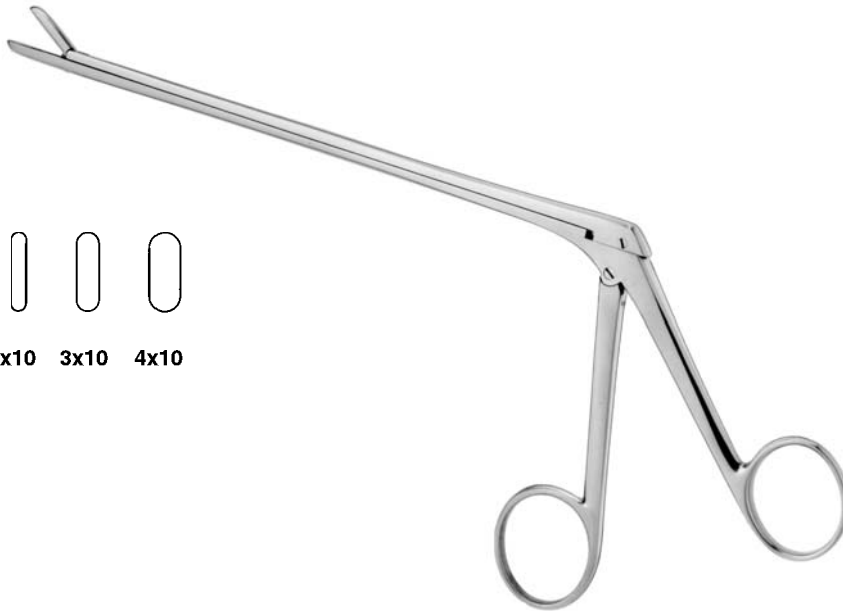
90°  
nach unten schneidend  
down - cutting

Schaft / Shaft      200 mm

Maul / Bite 3 mm      13-3058

Maul / Bite 5 mm      13-3060

## Neurochirurgie Neuro Surgery



Cushing  
Love - Gruenwald  
Spurling



gerade  
straight

Schaft / Shaft	130 mm	180 mm
Maul / Bite 2x10 mm	05E-066	05E-069
Maul / Bite 3x10 mm	05E-072	05E-075
Maul / Bite 4x10 mm	05E-060	05E-063



nach oben abgewinkelt  
angled - up

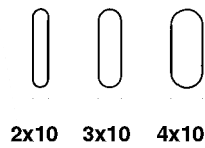
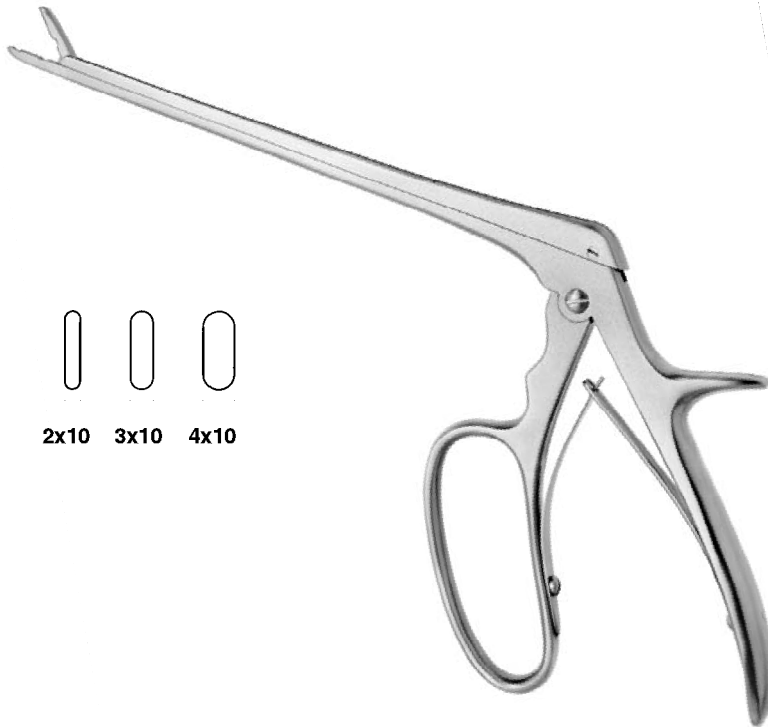
Schaft / Shaft	130 mm	180 mm
Maul / Bite 2x10 mm	05E-067	05E-070
Maul / Bite 3x10 mm	05E-073	05E-076
Maul / Bite 4x10 mm	05E-061	05E-064



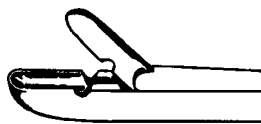
nach unten abgewinkelt  
angled - down

Schaft / Shaft	130 mm	180 mm
Maul / Bite 2x10 mm	05E-068	05E-071
Maul / Bite 3x10 mm	05E-074	05E-077
Maul / Bite 4x10 mm	05E-062	05E-065

Neurochirurgie  
Neuro Surgery



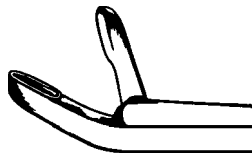
Ferris - Smith



gerade  
straight

Schaft / Shaft 180 mm

Maul / Bite 2x10 mm 05E-085  
Maul / Bite 3x10 mm 05E-088  
Maul / Bite 4x10 mm 05E-091



nach oben abgewinkelt  
angled - up

Schaft / Shaft 180 mm

Maul / Bite 2x10 mm 05E-086  
Maul / Bite 3x10 mm 05E-089  
Maul / Bite 4x10 mm 05E-092

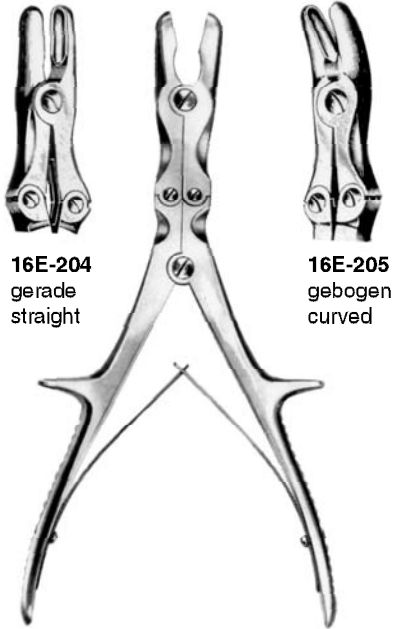


nach unten abgewinkelt  
angled - down

Schaft / Shaft 180 mm

Maul / Bite 2x10 mm 05E-087  
Maul / Bite 3x10 mm 05E-090  
Maul / Bite 4x10 mm 05E-093

## Neurochirurgie Neuro Surgery



**16E-204**  
gerade  
straight

**16E-205**  
gebogen  
curved

**Stille - Luer, 22 cm**  
Hohlmeisselzange, übersetzt, gerade  
Bone Rongeur Forceps, geared, straight



**16E-213**  
Stille Hohlmeisselzange, übersetzt, 23,0 cm  
Stille Bone Rongeur Forceps, geared, 23,0 cm



**Echlin**  
9-1396 2 mm, 23,0 cm  
9-1398 3 mm, 23,0 cm  
9-1400 4 mm, 23,0 cm  
seitwärts abgewinkelt / angled to side



**Leksell-Stille**  
16E-203 Hohlmeisselzange, übersetzt,  
breit, 24,0 cm  
Bone Rongeur Forceps, geared, broad, 24,0 cm



Neurochirurgie  
Neuro Surgery



Inge

13-3250  
16,0 cm  
Kleines Modell / small pattern



Inge

13-3252  
26,0 cm  
Großes Modell / large pattern



Cloward  
13-3254  
13,0 cm



Gelpi

13-3270 14,0 cm  
13-3272 17,0 cm



Weitlaner

01E-481  
16,5 cm scharf / sharp  
3x4 Zähne, 16 mm tief  
3x4 prongs, 16 mm deep



Weitlaner - Beckmann

13-3282  
16,5 cm scharf / sharp  
3x4 Zähne, 13 mm tief  
3x4 prongs, 13 mm deep

Neurochirurgie  
Neuro Surgery



**Weitlaner**  
13-3300 scharf / sharp, 24,0 cm  
13-3301 stumpf / blunt, 24,0 cm  
3x4 Zähne, 25 mm tief  
3x3 prongs, 25 mm deep



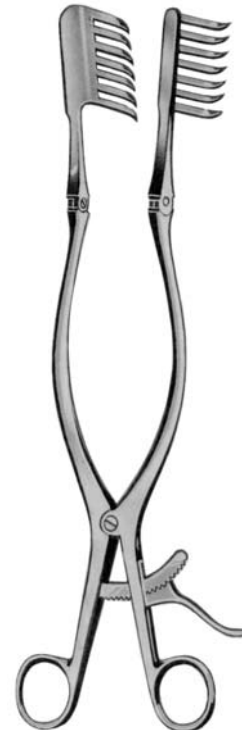
**Adson**  
13-3302 scharf / sharp, 26,5 cm  
13-3304 stumpf / blunt, 26,5 cm  
5x6 Zähne, 35 mm tief  
5x6 prongs, 35 mm deep



**Beckmann - Adson**  
13-3310  
scharf / sharp, 31,0 cm  
4x4 Zähne, 25 mm tief  
4x4 prongs, 25 mm deep



**Beckmann - Adson**  
13-3312  
scharf / sharp, 31,0 cm  
4x4 Zähne, 44 mm tief  
4x4 prongs, 44 mm deep



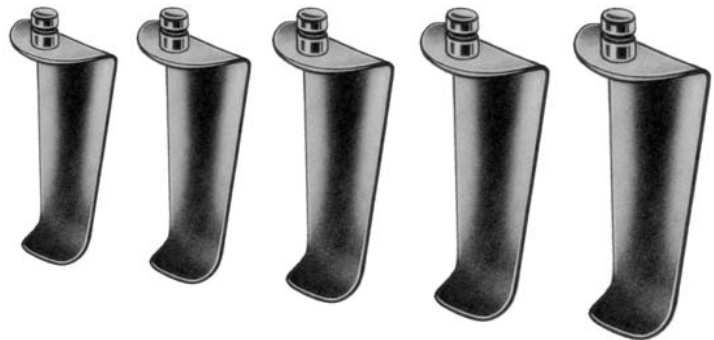
**Beckmann - Eaton**  
13-3318  
scharf / sharp, 32,0 cm  
7x7 Zähne, 50 mm tief  
7x7 prongs, 50 mm deep

**Neurochirurgie  
Neuro Surgery**

**Wundpreizer, Wirbelkörperspreizer  
Retractors, Cervical Retractors**



**Cloward**  
13-3332 17,0 cm  
Rahmen allein  
Frame only



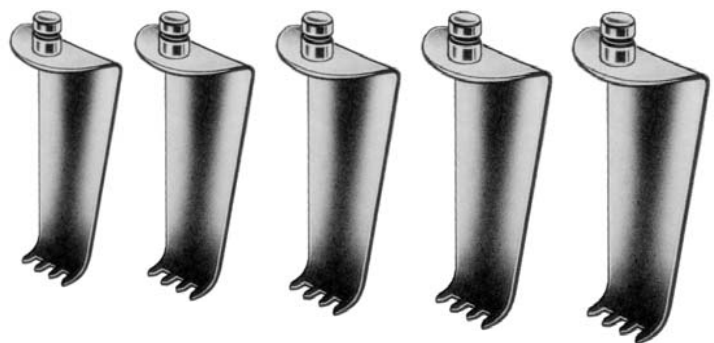
**Cloward**  
Seitenvalven allein  
Blades only

13-3340	40 mm
13-3342	45 mm
13-3344	50 mm
13-3346	55 mm
13-3348	60 mm

**Cloward**  
13-3330 17,0 cm  
komplett mit 5 Valven  
complete with 5 blades



**Cloward**  
13-3352 17,0 cm  
Rahmen allein  
Frame only



**Cloward**  
Seitenvalven gezahnt  
Blades toothed

13-3360	40 mm
13-3362	45 mm
13-3364	50 mm
13-3366	55 mm
13-3368	60 mm

**Cloward**  
13-3350 17,0 cm  
komplett mit 5 Valven  
complete with 5 blades

**Spekula für Rückenoperationen  
Specula for lumbar vertebral operations**



**Caspar  
13-3372**

- 13-3370 Gegensperrer, komplett mit 7 Blättern  
Counter Retractor, complete with 7 blades
- 13-3372 Gegensperrer, allein  
Counter Retractor, only



**Caspar  
13-3381**

- 13-3380 Gegensperrer, komplett mit 6 Blättern  
Counter Retractor, complete with 6 blades
- 13-3381 Gegensperrer, allein  
Counter Retractor, only



**Blätter alleine  
Blades only**

- 13-3373 40 mm
- 13-3374 45 mm
- 13-3375 50 mm
- 13-3376 55 mm
- 13-3377 60 mm
- 13-3378 65 mm
- 13-3379 70 mm



**Blätter alleine  
Blades only**

- 13-3382 35 mm
- 13-3383 40 mm
- 13-3384 45 mm
- 13-3385 50 mm
- 13-3386 55 mm
- 13-3387 60 mm
- 13-3388 65 mm
- 13-3389 75 mm
- 13-3390 85 mm

Neurochirurgie  
Neuro Surgery

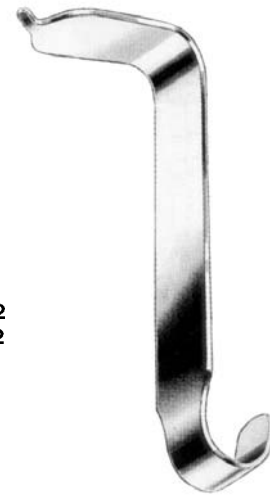


**Meyerding**  
13-3400 16x50 mm, 20,0 cm  
13-3402 25x75 mm, 23,0 cm  
13-3404 50x90 mm, 24,0 cm



**Hibbs**  
13-3414  
Satz / 2 Stück Fig. 1 + 2  
Set of 2 fig. 1 + 2

**Hibbs**  
13-3410 25x75 mm, 23,0 cm  
13-3412 25x80 mm, 24,0 cm



**Taylor**  
13-3416 30x 75 mm, 17,0 cm  
13-3418 30x100 mm, 17,0 cm



**Love**  
13-3440  
6 mm, 19,0 cm  
gerade / straight



**Love**  
13-3442  
6 mm, 19,0 cm  
45°



**Love**  
13-3444  
6 mm, 19,0 cm  
90°



**Scoville**  
13-3448  
30,0 cm



**Scoville**  
13-3450  
30,0 cm  
Nervhaken und Disektor  
Nerve Hook and Disector

Neurochirurgie  
Neuro Surgery



**Pennfield**  
13-3460



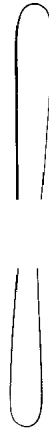
**Davis**  
13-3462  
4 mm, 24,5 cm



**13-3464**  
schmall  
narrow



**Toennis**  
24,0 cm



**13-3466**  
breit  
wide



**Frazier**  
13-3470  
15,0 cm



**Hoehn**  
13-3472  
15,0 cm  
45°

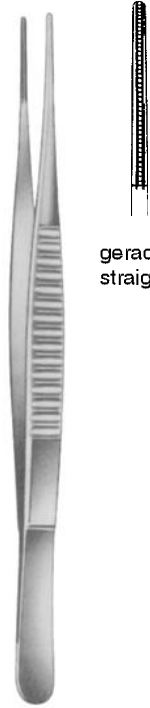


**Hoehn**  
13-3474  
15,0 cm  
90°

**Neurochirurgie  
Neuro Surgery**



**23E-027**  
DeBakey-Adson, 12,0 cm  
Atraumatische Pinzette  
Atrauma Forceps



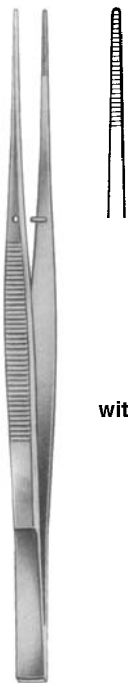
gerade  
straight

**23E-033**  
DeBakey, 20,0 cm  
Atraumatische Pinzette, 2,0 mm  
Atrauma Forceps, 2,0 mm



gebogen  
curved

**23E-037**  
DeBakey, 20,0 cm  
Atraumatische Pinzette, 2,0 mm  
Atrauma Forceps, 2,0 mm



with dissector end

**Cushing**  
13-3500 18,0 cm



**Cushing**  
13-3502 18,0 cm



with dissector end

**Cushing**  
13-3508 18,0 cm



**Cushing**  
13-3510 18,0 cm

Wundspreizer für die Wirbelsäule  
Retractors for spine



Caspar

- 13-3600 Sperrer mit Haken 13-3604  
und 5 Blättern 13-3612 - 13-3620  
Retractor with hook 13-3604  
and 5 blades 13-3612 - 13-3620
- 13-3601 Sperrer allein  
Retractor only



- 13-3650 Gegensperrer, mit 5 Blättern  
Counter Retractor, with 5 blades  
(13-3660 - 13-3668)
- 13-3652 Gegensperrer, allein  
Counter Retractor, only



Haken 38 mm  
Hook 38 mm

13-3604



Blätter  
Blades

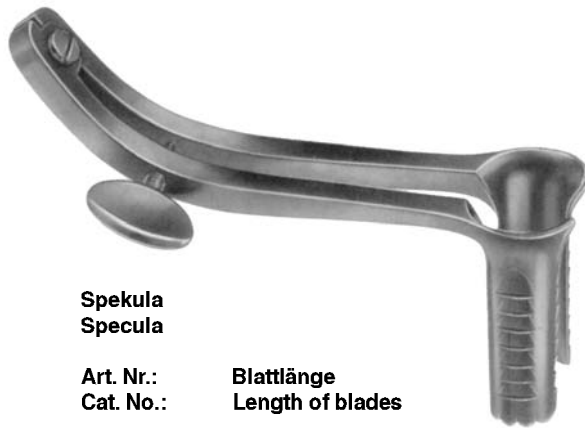
- 13-3610 32 x 22 mm
- 13-3612 37 x 22 mm
- 13-3614 43 x 22 mm
- 13-3616 47 x 22 mm
- 13-3618 52 x 22 mm
- 13-3620 57 x 22 mm
- 13-3622 62 x 22 mm
- 13-3624 67 x 22 mm



- 13-3660 45 x 23 mm
- 13-3662 50 x 23 mm
- 13-3664 55 x 23 mm
- 13-3666 60 x 23 mm
- 13-3668 65 x 23 mm



**Spekula für Rückenoperationen**  
**Specula for lumbar vertebral operations**

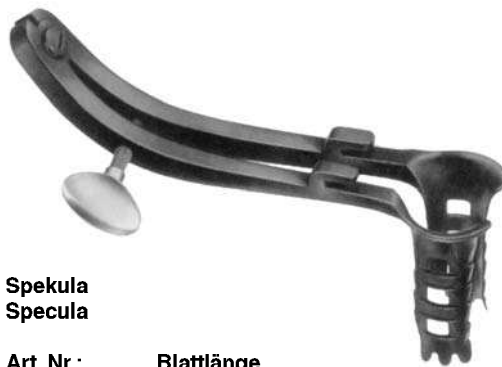


**Spekula**  
**Specula**

**Art. Nr.:**            **Blattlänge**  
**Cat. No.:**           **Length of blades**

13-7000	45 mm
13-7002	50 mm
13-7004	55 mm
13-7006	60 mm
13-7008	65 mm

**Caspar**



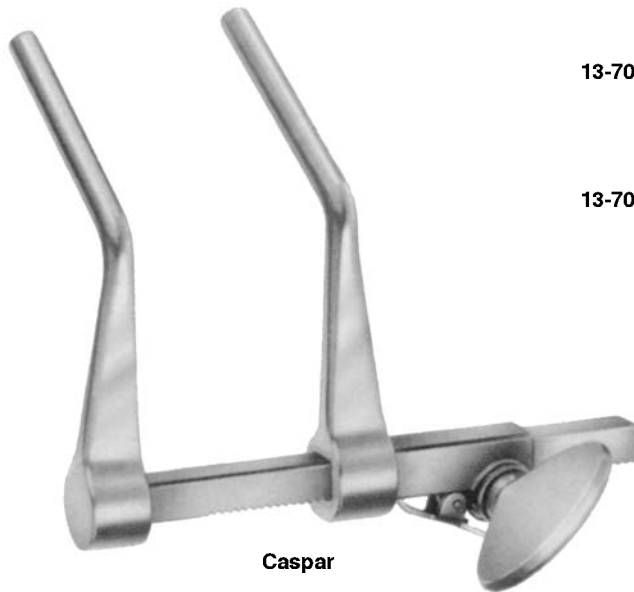
**Spekula**  
**Specula**

**Art. Nr.:**            **Blattlänge**  
**Cat. No.:**           **Length of blades**

13-7010	40 mm
13-7012	45 mm
13-7014	50 mm
13-7016	55 mm
13-7018	60 mm
13-7020	65 mm
13-7022	75 mm
13-7024	85 mm

**Caspar**

## Wirbelkörper Distraktionssystem Vertebral Body Distraction System



- 13-7030** Distraktor alleine, rechts mit verlängerter Führungsstange für mehrere Distraktionen  
Distractor only, right with elongated toothed bar for multilevel distraction
- 13-7032** Distraktor alleine, links mit verlängerter Führungsstange für mehrere Distraktionen  
Distractor only, left with elongated toothed bar for multilevel distraction



- 13-7040** Bohrlehre rechts, für Distraktor 13-7030  
Drill Guide right, for distractor 13-7030
- 13-7042** Bohrlehre links, für Distraktor 13-7032  
Drill Guide left, for distractor 13-7032












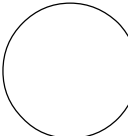
- 13-7050**  
Bohrer ø 1,7 mm für Distraktionsschrauben,  
Bohrtiefe: 8 mm  
Twist Drill ø 1.7 mm for distraction screws,  
drilling depth: 8 mm



- 13-7052**  
Schraubendreher für Distraktionsschrauben  
Screw Driver for distraction screws












Bruns

- |   |   |   |
|---|---|---|
|  |    |  |
| <b>Fig. 0000</b><br>16E-017.40  | <b>Fig. 000</b><br>16E-017.30   | <b>Fig. 00</b><br>16E-017.20  |
|  |    |  |
| <b>Fig. 0</b><br>16E-017.10   | <b>Fig. 1</b><br>16E-017.01   | <b>Fig. 2</b><br>16E-017.02   |
|  |    |  |
| <b>Fig. 3</b><br>16E-017.03   | <b>Fig. 4</b><br>16E-017.04   | <b>Fig. 5</b><br>16E-017.05   |
|   |  |   |
|   | <b>Fig. 6</b><br>16E-017.06   |   |



Bruns  
23,0 cm

- |   |  |
|---|--|
|    |   |
| <b>9-1040</b>   | <b>9-1050</b>  |
|    |   |
| <b>9-1042</b>   | <b>9-1052</b>  |
|    |   |
| <b>9-1044</b>   | <b>9-1054</b>  |
|    |  |
| <b>9-1046</b>   | <b>9-1056</b>  |
|  |  |
| <b>9-1048</b>   |  |



- 9-980 Lambotte 10 mm
- 9-982 Lambotte 15 mm
- 9-984 Lambotte 20 mm



**Lambotte**  
straight 24,0 cm

- 16E-060
- 16E-061
- 16E-062
- 16E-063
- 16E-064
- 16E-065
- 16E-066

- 15 mm
- 20 mm
- 25 mm
- 30 mm
- 38 mm
- 44 mm
- 50 mm



**Lambotte**  
curved, 24,0 cm

- 16E-067
- 16E-068
- 16E-069
- 16E-070
- 16E-071
- 16E-072
- 16E-073



**Smith - Peterson**  
straight, 20,0 cm

- |       |       |
|-------|-------|
| 9-830 | 6 mm  |
| 9-832 | 9 mm  |
| 9-834 | 12 mm |
| 9-836 | 15 mm |
| 9-838 | 20 mm |
| 9-840 | 25 mm |
| 9-842 | 30 mm |



**Smith - Peterson**  
curved, 20,0 cm

- 9-844
- 9-846
- 9-848
- 9-850
- 9-852
- 9-854
- 9-856



**Lexer**  
flat, 22,0 cm

- 16E-097
- 16E-098
- 16E-099
- 16E-100

- 10 mm
- 15 mm
- 20 mm
- 25 mm



**Lexer**  
concave, 22,0 cm

- 16E-103
- 16E-104
- 16E-105
- 16E-106