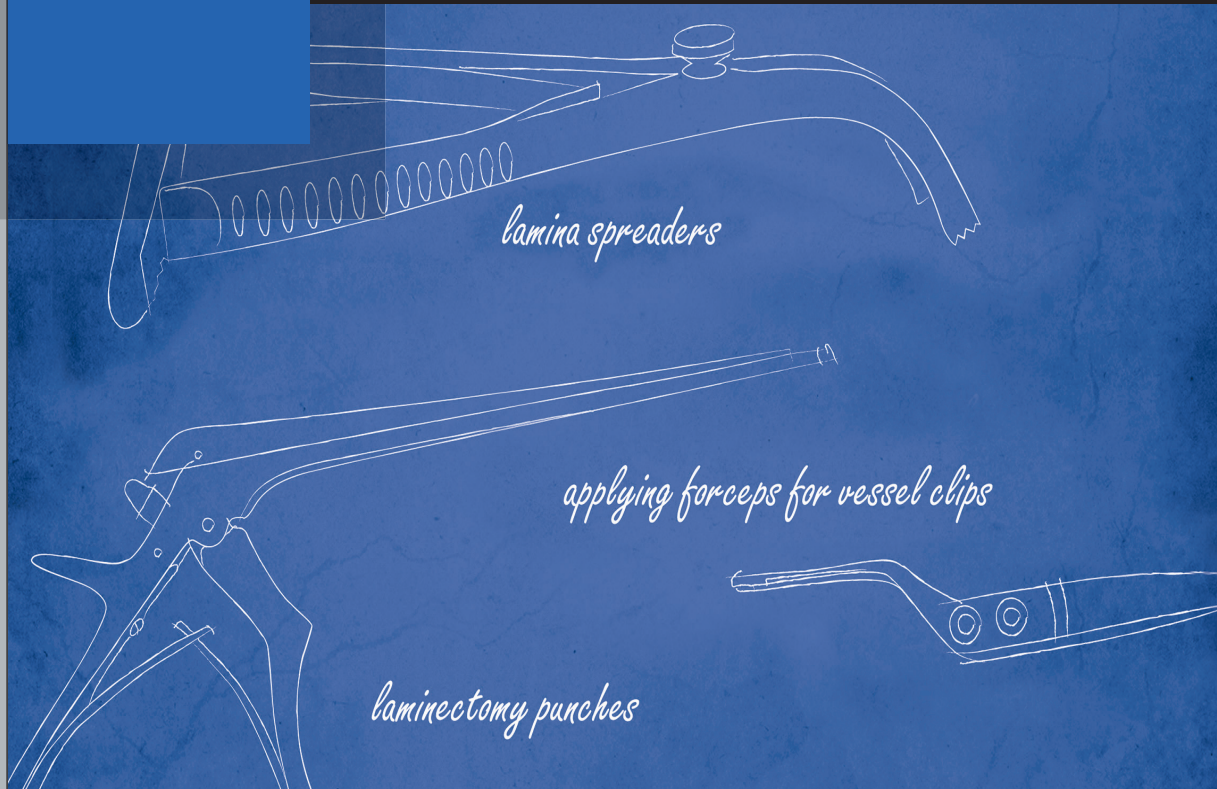


OPEN SURGERY



Laminektomiestanzen

Laminectomy Punches

Pinzas cortantes para laminectomía

Pinces emporte-pièces à laminectomie

Pinze taglienti per laminectomia

243



Art.Nr.	Beschreibung Description	Size	Spez.
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243-005-00

GIGLI

Drahtsägen-Handgriff

Wire saws handle

Mango de gancho

Manche à crochet

Manico con uncino



GIGLI (OLIVECRONA)

Drahtsägen

Wire saws

Sierras de hilo

Fils scies

Fili sega

Ø 1,3 mm



Ø 1,4 mm



243-010-30

30,0 cm; 11 6/8"

243-015-30

30,0 cm; 11 6/8"

243-010-40

40,0 cm; 15 6/8"

243-015-40

40,0 cm; 15 6/8"

243-010-50

50,0 cm; 19 5/8"

243-015-50

50,0cm; 19 5/8"

243-010-60

60,0 cm; 23 5/8"

243-015-60

60,0 cm; 23 5/8"

243-010-70

70,0 cm; 27 4/8"

243-015-70

70,0cm; 27 4/8"

Mindestbestellmenge: 10 Stück | Minimum order quantity: 10 pieces

Cantidad minima de pedido: 10 unidades | Quantité minimum par commande: 10 pieces | Quantità minima d'ordine: 10 pezzi

243-026-33

DE MARTEL

33,0 cm; 13"

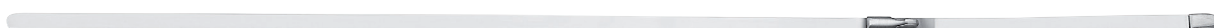
Einführungsinstrument

Wire saw guide

Conductor para sierras de hilo

Conducteur pour fils-scies

Introduttore



Schädelstanzen Cranial Rongeur

Pinzas sacabocados craneales
Pincas emporte-pièces crâniennes
Pinze per cranio

TONTARRA



Art.Nr.	Beschreibung Description	Size	Spez.
243-040-00	DE VILBISS mit Klingen 243-040-01 und 243-040-02 with blades 243-040-01 and 243-040-02 con hojas 243-040-01 y 243-040-02 avec lame 243-040-01 et 243-040-02 con lame 243-040-01 e 243-040-02	21,0 cm; 8 2/8"	SET



DE VILBISS Ersatzklingen
Spare blades only
Hoja de repuesto
Lame de rechange
Lama di ricambio

243-040-01	Fig. 4	
243-040-02	Fig. 5	

Schädelstanzen Cranial Rongeurs

Pinzas sacabocados craneales
Pinces emporte-pièces crâniennes
Pinze per cranio

TONTARRA



Art.Nr.	Beschreibung Description	Size	Spez.
243-044-20	DAHLGREEN mit Klinge 243-044-01 with blade 243-044-01 con hoja 243-044-01 avec lame 243-044-01 con lame 243-044-01	19,5cm; 7 5/8"	SET



243-044-01	DAHLGREEN Ersatzklinge Spare blade Hoja de repuesto Lame de rechange Lama di ricambio		
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243-046-22	CONE	22,5 cm; 8 7/8"
bis 12 mm up to 12 mm hasta 12 mm jusqu' à 12 mm fino a 12 mm		



Schädelhalter
Skull Traction Tongs

Estribos de tracción craneal
Pinces de traction crânienne
Pinze per trazione craniale



Art.Nr.	Beschreibung Description	Size	Spez.
243-050-01	CRUTCHFIELD bis 105 mm up to 105 mm hasta 105 mm jusqu' à 105 mm fino a 105 mm 		
243-050-02	CRUTCHFIELD bis 155 mm up to 155 mm hasta 155 mm jusqu' à 155 mm fino a 155 mm 		
	Vorbohrer Drill points Perforadores Amorçoir Aesatore	7,0 cm; 2 6/8"	
243-051-35	Ø 3,5 mm 		
243-051-50	Ø 5,0 mm 		

Schädelhalter
Skull Traction Tongs

Estribos de tracción craneal
Pinces de traction crânienne
Pinze per trazione craniale

TONTARRA

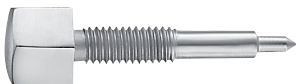


Art.Nr.	Beschreibung Description	Size	Spez.
243-055-00	bis 175 mm up to 175 mm hasta 175 mm jusqu' à 175 mm fino a 175 mm		



243-055-01

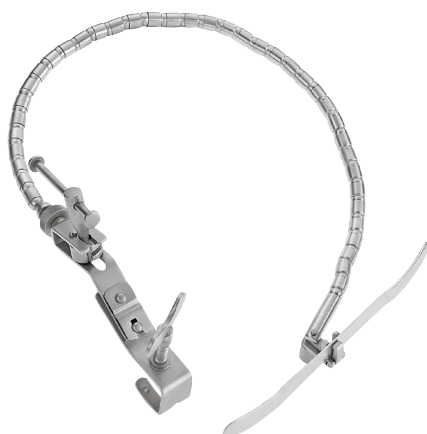
Ersatzdorn
Spare pin
Espina de repuesto
Pointe de rechange
Punta di ricambio





Art.Nr.	Beschreibung Description	Size	Spez.
243-070-00	LEYLA		SET

1-Arm | with 1 arm | con 1 brazo | avec 1 bras | con 1 braccio

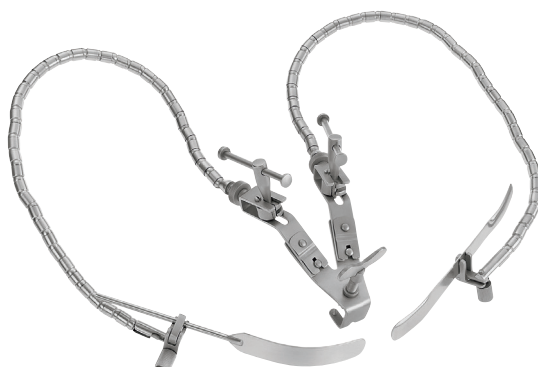


bestehend aus: | consisting of:
 compuesto de: | composé de: | composto da:

243-070-10	1 x Spannarm 1 x Flexible arm 1 x Brazo flexible 1 x Bras flexible 1 x Braccio flessibile	243-070-20	1 x Fixiervorrichtung 1 x Fixation base 1 x Fijador 1 x Dispositif au fixation 1 x Base di fissaggio	243-070-31	1 x Spatelhalter 1 x Support 1 x Porta-espátula 1 x Support 1 x Supporto
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243-071-00	LEYLA	SET
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2-Arm | with 2 arms | con 2 brazos | avec 2 bras | con 2 bracci



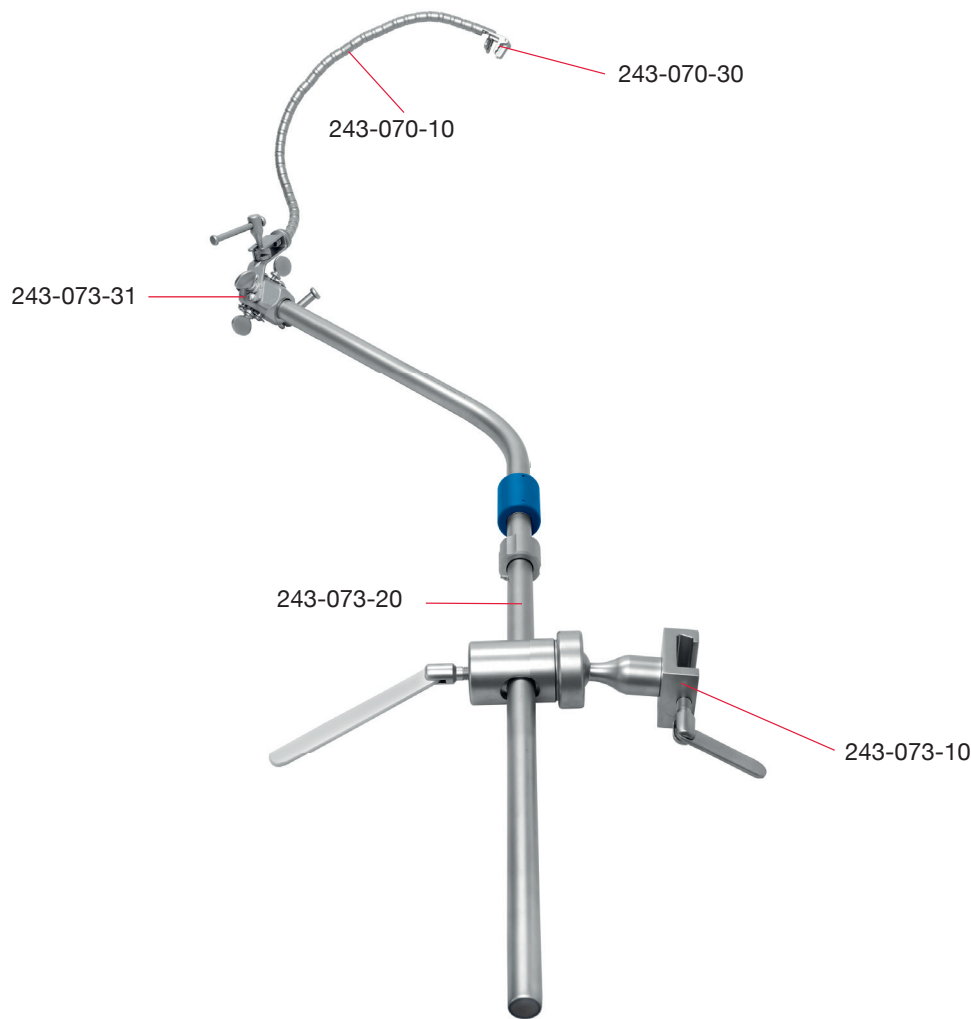
bestehend aus: | consisting of:
 compuesto de: | composé de: | composto da:

243-070-10	2 x Spannarme 2 x Flexible arms 2 x Brazo flexible 2 x Bras flexible 2 x Braccio flessibile	243-070-21	1 x Fixiervorrichtung 1 x Fixation base 1 x Fijador 1 x Dispositif au fixation 1 x Bbase di fissaggio	243-070-31	2 x Spatelhalter 2 x Support 2 x Porta-espátula 2 x Support 2 x Supporto
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Art.Nr.	Beschreibung Description	Size	Spez.
243-075-00	LEYLA		SET

1-Arm | with 1 arm | con 1 brazo | avec 1 bras | con 1 braccio



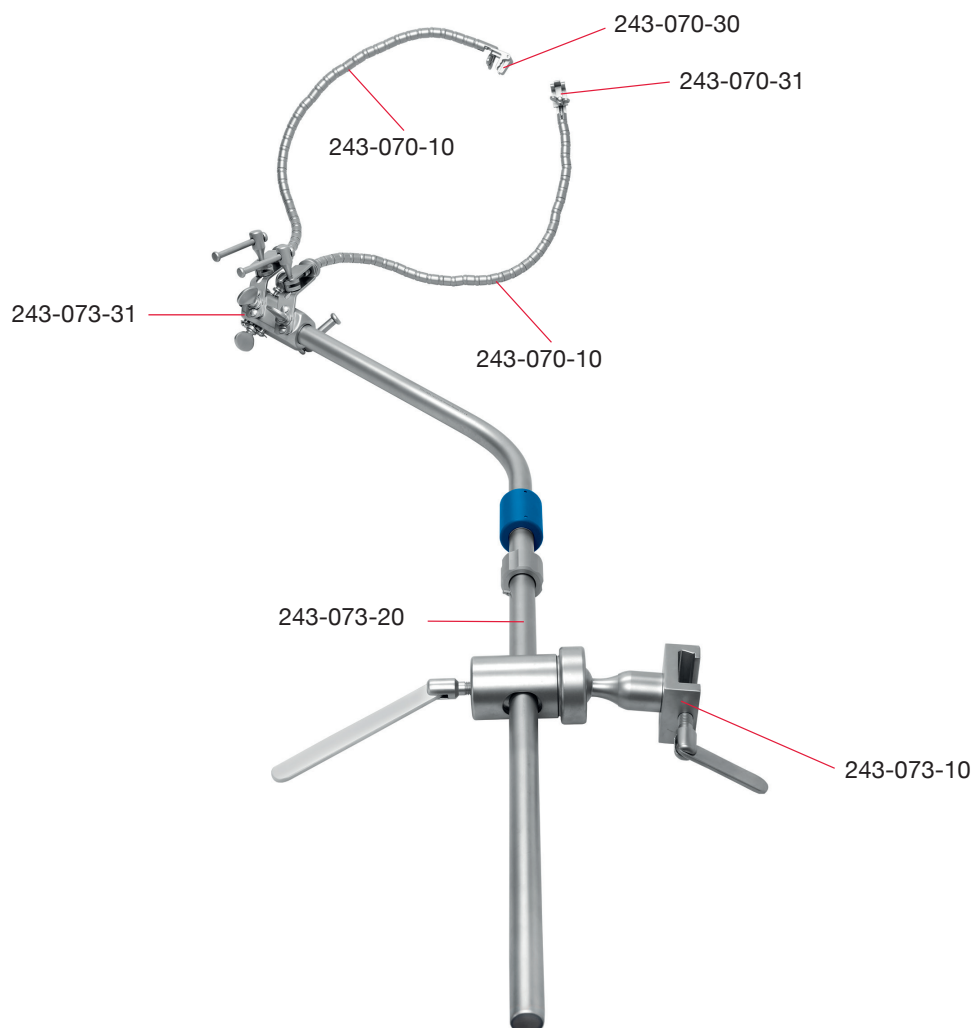
bestehend aus: | consisting of:
compuesto de: | composé de: | composto da:

243-073-10	1 x Kugelgelenkkolben 1 x Ball and socket join 1 x Zapato p.la fijacion 1 x Sabot pour fixer 1 x Zoccolo	243-073-20	1 x Haltearm 1 x Holding rod 1 x Brazo de soporte 1 x Bras à tenir 1 x Porta asta	243-073-31	1 x Kupplungskopf 1 x Coupling head 1 x Acoplamiento 1 x Embrayage 1 x Accoppiamento
243-070-10	1 x Spannarm 1 x Flexible arm 1 x Brazo flexible 1 x Bras flexible 1 x Braccio flessibile	243-070-30	1 x Spatelhalter 1 x Support 1 x Porta-espátula 1 x Support 1 x Supporto		



Art.Nr.	Beschreibung Description	Size	Spez.
243-077-00	LEYLA		SET

2-Arm | with 2 arms | con 2 brazos | avec 2 bras | con 2 bracci



bestehend aus: | consisting of:
 compuesto de: | composé de: | composto da:

243-073-10	2 x Kugelgelenkkolben 2 x Ball and socket join 2 x Zapato p.la fijacion 2 x Sabot pour fixer 2 x Zoccolo	243-073-20	1 x Haltearm 1 x Holding rod 1 x Brazo de soporte 1 x Bras à tenir 1 x Porta asta	243-073-31	2 x Kupplungskopf 2 x Coupling head 2 x Acoplamiento 2 x Embrayage 2 x Accoppiamento
243-070-10	2 x Spannarm 2 x Flexible arm 2 x Brazo flexible 2 x Bras flexible 2 x Braccio flessibile	243-070-30	1 x Spatelhalter 1 x Support 1 x Porta-espátula 1 x Support 1 x Supporto	243-070-31	1 x Spatelhalter 1 x Support 1 x Porta-espátula 1 x Support 1 x Supporto



Art.Nr.	Beschreibung Description	Size	Spez.
243-070-10	Spannarm Flexible arm Brazo flexible Bras flexible Braccio flessibile		
			
243-070-20	Fixiervorrichtung für 1 Arm zum Festschrauben am Schädel Fixation base for 1 arm at skull Fijador para 1 brazo al craneo Base de fixation pour 1 bras au crâne Fissatore per 1 braccio al cranio		
			
243-070-21	Fixiervorrichtung für 2 Arme zum Festschrauben am Schädel Fixation base for 2 arms at skull Fijador para 2 brazos al craneo Base de fixation pour 2 bras au crâne Fissatore per 2 bracci al cranio		
			
243-070-22	Fixiervorrichtung für 1 Arm zum Festschrauben am Starrarm Fixation base for 1 arm at rigid arm Fijador para 1 brazo al brazo rígido Base de fixation pour 1 bras au bras rigide Fissatore per 1 braccio al braccio rigido		
			
243-070-30	Halter für Spatel mit rundem Schaft Holder for spatula with round stem Soporte para espátulas con vástago redondo Support pour des spatules à fût rond Sostegno per spatole con asta rotonda		
			
243-070-31	Halter für flache Spatel Holder for flat spatula Soporte para espátulas llanas Support pour des spatules plates Sostegno per spatole piatte		
			



Art.Nr.	Beschreibung Description	Size	Spez.
HEIFETZ		20,0 cm; 7 7/8"	
243-130-08	8,0 mm		
243-130-11	11,0 mm		
243-130-14	14,0 mm		
243-130-17	17,0 mm		
243-130-20	20,0 mm		
HEIFETZ		15,5 cm; 6 1/8"	
243-132-08	8,0 mm		
243-132-11	11,0 mm		
243-132-14	14,0 mm		
243-132-17	17,0 mm		
OLIVECRONA		18,0 cm; 7"	
konkav concave concáva concave concava			
243-136-01	7 + 9 mm		
243-136-02	11 + 13 mm		
243-136-03	15 + 18 mm		
243-136-04	19 + 21 mm		



Art.Nr.	Beschreibung Description	Size	Spez.
OLIVECRONA		18,0 cm; 7"	
konvex convex convexo convexe convesso			
			
			
243-138-01	7 + 9 mm		
243-138-02	11 + 13 mm		
243-138-03	15 + 18 mm		
243-138-04	19 + 21 mm		
biegsam malleable maleable malléable malleabile		20,0 cm; 7 7/8"	
			
243-146-12	12,0 mm		
243-146-17	17,0 mm		
CUSHING		19,5 cm; 7 5/8"	
243-148-19	7 + 9 mm		
			
			

Nervwurzelhaken Nerve Root Retractors

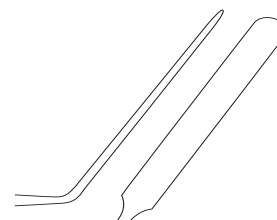
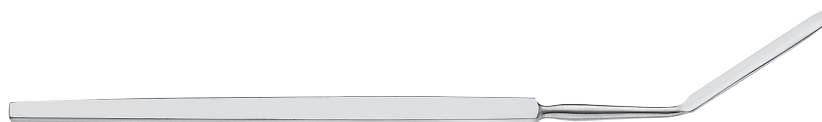
Separadores para la raíz nervio
Retracteurs pour racines nerveuses
Uncini per le radici di nervi

TONTARRA



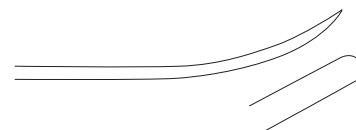
Art.Nr.	Beschreibung Description	Size	Spez.
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243-200-20	HORSLEY	20,0 cm; 7 7/8"	
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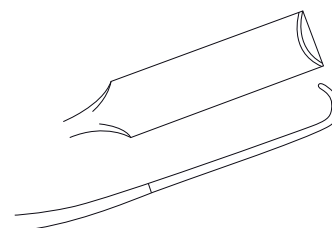
1/1

243-202-21	SACHS	21,0 cm; 8 2/8"	
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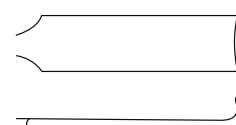
1/1

243-203-07	HOLSHER	21,0 cm; 8 2/8"	
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1/1

243-205-23	SCOVILLE	23,0 cm; 9" 8,0 mm	
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1/1

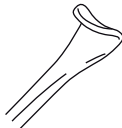
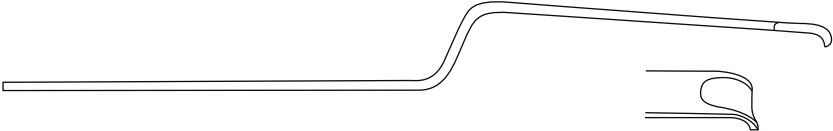
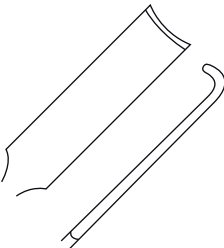
243

Nervwurzelhaken Nerve Root Retractors

Separadores para la raíz nervio
Retracteurs pour racines nerveuses
Uncini per le radici di nervi

TONTARRA



Art.Nr.	Beschreibung Description	Size	Spez.
243-207-00	LOVE	20,5 cm; 8"	
1/1			
243-207-45	LOVE	20,5 cm; 8"	45°
1/1			
243-207-90	LOVE	20,5 cm; 8"	90°
1/1			
243-208-22	LOVE	21,0 cm; 8 2/8"	
1/1			
243-213-20	SCOVILLE	20,0 cm; 7 7/8" 8,0 mm	
1/1			

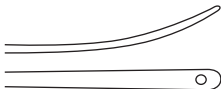
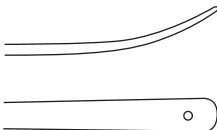
Nervhaken; Haken
Nerve Hooks; Hooks

Ganchos para nervios; Ganchos
Crochets à nerfs; Crochets
Uncini per nervi; Uncini

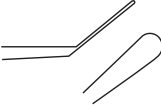


Art.Nr.	Beschreibung Description	Size	Spez.
243-217-17	SMITHWICK	16,5 cm; 6 4/8"	
			
243-217-21	SMITHWICK	21,0 cm; 8 4/8"	
			
243-221-14	CUSHING	14,5 cm; 5 6/8"	
			



Art.Nr.	Beschreibung Description	Size	Spez.
SACHS		21,0 cm; 8 4/8"	
			
243-228-21			
243-230-21			
1/1			
FRAZIER		16,5 cm; 6 4/8"	
			
1/1			
OLIVECRONA			
			
			
243-234-18	18,0 cm; 7 1/8"	243-234-24	24,0 cm; 9 4/8"
1/1	1/1		
OLIVECRONA			
			
			
243-235-19	19,5 cm; 7 5/8"	243-235-24	24,0 cm; 9 4/8"
1/1	1/1		



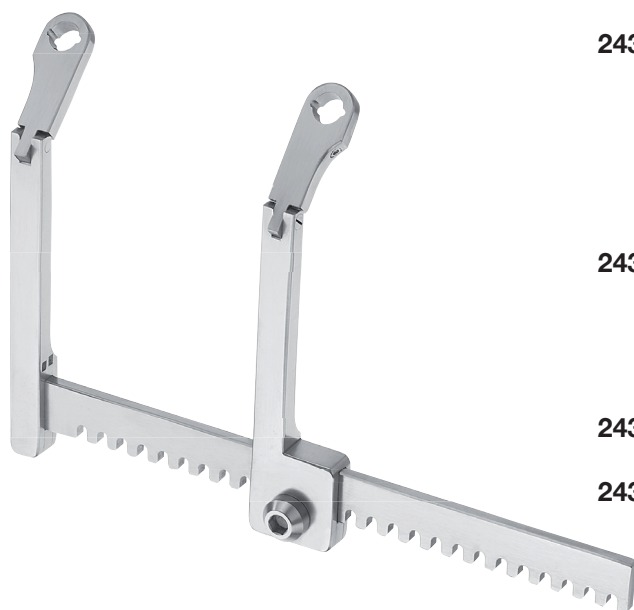
Art.Nr.	Beschreibung <i>Description</i>	Size	Spez.
243-236-21	MILLIGAN	21,0 cm; 8 4/8"	
  			
1/1			
243-237-22		22,0 cm; 8 5/8"	
			
243-238-01	TOENNIS	24,0 cm; 9 4/8"	
			
243-239-24	DAVIS	24,5 cm; 9 5/8"	
			



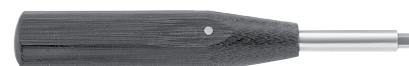
Art.Nr.	Beschreibung Description	Size	Spez.
PENFIELD			
243-240-01	Fig. 1 17,5 cm; 6 7/8"		
1/1			
243-240-02	Fig. 2 19,5 cm; 7 5/8"		
1/1			
243-240-03	Fig. 3 19,5 cm; 7 5/8"		
1/1			
243-240-04	Fig. 4 20,5 cm; 8 1/8"		
1/1			
243-240-05	Fig. 5 29,0 cm; 11 3/8"		
1/1			



Art.Nr.	Beschreibung Description	Size	Spez.
CASPAR			SET



243-350-10



243-351-38



243-352-37

⋮

243-352-57



243-350-00

bestehend aus:

- 243-350-01 1 Rahmen
- 243-350-10 1 Drehschlüssel
- 243-351-38 1 Haken 38 mm
- 243-352-37 1 Seitenvalve 37 x 22 mm
- 243-352-43 1 Seitenvalve 43 x 22 mm
- 243-352-47 1 Seitenvalve 47 x 22 mm
- 243-352-52 1 Seitenvalve 52 x 22 mm
- 243-352-57 1 Seitenvalve 57 x 22 mm

243-350-00

compuesto de:

- 243-350-01 1 Cuadro
- 243-350-10 1 Llave
- 243-351-38 1 Gancho 38 mm
- 243-352-37 1 Valva lateral 37 x 22 mm
- 243-352-43 1 Valva lateral 43 x 22 mm
- 243-352-47 1 Valva lateral 47 x 22 mm
- 243-352-52 1 Valva lateral 52 x 22 mm
- 243-352-57 1 Valva lateral 57 x 22 mm

243-350-00

consisting of:

- 243-350-01 1 Frame
- 243-350-10 1 Key
- 243-351-38 1 Hook 38 mm
- 243-352-37 1 Lateral blade 37 x 22 mm
- 243-352-43 1 Lateral blade 43 x 22 mm
- 243-352-47 1 Lateral blade 47 x 22 mm
- 243-352-52 1 Lateral blade 52 x 22 mm
- 243-352-57 1 Lateral blade 57 x 22 mm

243-350-00

composé de:

- 243-350-01 1 Cadre
- 243-350-10 1 Clé
- 243-351-38 1 Crochet 38 mm
- 243-352-37 1 Valve latéral 37 x 22 mm
- 243-352-43 1 Valve latéral 43 x 22 mm
- 243-352-47 1 Valve latéral 47 x 22 mm
- 243-352-52 1 Valve latéral 52 x 22 mm
- 243-352-57 1 Valve latéral 57 x 22 mm

243-350-00

composto da:

- 243-350-01 1 Telaio
- 243-350-10 1 Chiave
- 243-351-38 1 Uncino 38 mm
- 243-352-37 1 Valva laterale 37 x 22 mm
- 243-352-43 1 Valva laterale 43 x 22 mm
- 243-352-47 1 Valva laterale 47 x 22 mm
- 243-352-52 1 Valva laterale 52 x 22 mm
- 243-352-57 1 Valva laterale 57 x 22 mm

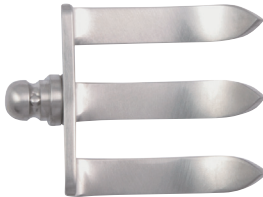
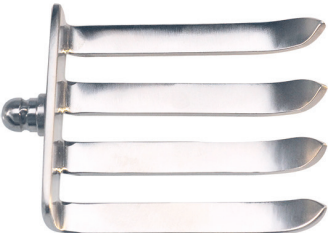


Art.Nr.	Beschreibung Description	Size	Spez.
243-350-10	Drehschlüssel Key Llave Clé Chiave		

CASPAR Haken
Hooks
Ganchos
Crochets
Uncini

243-351-38	38,0 mm	243-351-58	58,0 mm
			

CASPAR

243-352-32	32 x 22 mm	243-353-32	32 x 37 mm
243-352-37	37 x 22 mm	243-353-37	37 x 37 mm
243-352-43	43 x 22 mm	243-353-43	43 x 37 mm
243-352-47	47 x 22 mm	243-353-47	47 x 37 mm
243-352-52	52 x 22 mm	243-353-52	52 x 37 mm
243-352-57	57 x 22 mm	243-353-62	62 x 37 mm
243-352-62	62 x 22 mm	243-353-67	67 x 37 mm
243-352-67	67 x 22 mm		
			
243-354-32	32 x 52 mm		
243-354-37	37 x 52 mm		
243-354-43	43 x 52 mm		
243-354-47	47 x 52 mm		
243-354-52	52 x 52 mm		
243-354-62	62 x 52 mm		
243-354-67	67 x 52 mm		
			



Art.Nr.	Beschreibung Description	Size	Spez.
	CASPAR		SET



243-361-40
⋮
243-361-60



243-363-40
⋮
243-363-60



243-360-00

243-360-01
243-361-40
243-361-45
243-361-50
243-361-55
243-361-60
243-363-40
243-363-45
243-363-50
243-363-55
243-363-60

bestehend aus:

1 Rahmen
1 Valve medial 40 x 23 mm
1 Valve medial 45 x 23 mm
1 Valve medial 50 x 23 mm
1 Valve medial 55 x 23 mm
1 Valve medial 60 x 23 mm
1 Valve lateral 40 x 23 mm
1 Valve lateral 45 x 23 mm
1 Valve lateral 50 x 23 mm
1 Valve lateral 55 x 23 mm
1 Valve lateral 60 x 23 mm

243-360-00

243-360-01
243-361-40
243-361-45
243-361-50
243-361-55
243-361-60
243-363-40
243-363-45
243-363-50
243-363-55
243-363-60

consisting of:

1 Frame
1 Valve medial 40 x 23 mm
1 Valve medial 45 x 23 mm
1 Valve medial 50 x 23 mm
1 Valve medial 55 x 23 mm
1 Valve medial 60 x 23 mm
1 Valve lateral 40 x 23 mm
1 Valve lateral 45 x 23 mm
1 Valve lateral 50 x 23 mm
1 Valve lateral 55 x 23 mm
1 Valve lateral 60 x 23 mm

243-360-00

243-360-01
243-361-40
243-361-45
243-361-50
243-361-55
243-361-60
243-363-40
243-363-45
243-363-50
243-363-55
243-363-60

compuesto de:

1 Cuadro
1 Valva medial 40 x 23 mm
1 Valva medial 45 x 23 mm
1 Valva medial 50 x 23 mm
1 Valva medial 55 x 23 mm
1 Valva medial 60 x 23 mm
1 Valva lateral 40 x 23 mm
1 Valva lateral 45 x 23 mm
1 Valva lateral 50 x 23 mm
1 Valva lateral 55 x 23 mm
1 Valva lateral 60 x 23 mm

243-360-00

243-360-01
243-361-40
243-361-45
243-361-50
243-361-55
243-361-60
243-363-40
243-363-45
243-363-50
243-363-55
243-363-60

composé de:

1 Cadre
1 Valve mediale 40 x 23 mm
1 Valve mediale 45 x 23 mm
1 Valve mediale 50 x 23 mm
1 Valve mediale 55 x 23 mm
1 Valve mediale 60 x 23 mm
1 Valve latérale 40 x 23 mm
1 Valve latérale 45 x 23 mm
1 Valve latérale 50 x 23 mm
1 Valve latérale 55 x 23 mm
1 Valve latérale 60 x 23 mm

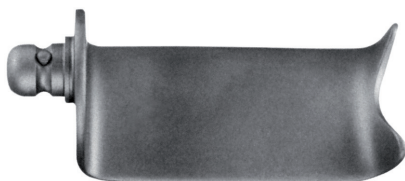
243-360-00

243-360-01
243-361-40
243-361-45
243-361-50
243-361-55
243-361-60
243-363-40
243-363-45
243-363-50
243-363-55
243-363-60

composto da:

1 Telaio
1 Valva mediale 40 x 23 mm
1 Valva mediale 45 x 23 mm
1 Valva mediale 50 x 23 mm
1 Valva mediale 55 x 23 mm
1 Valva mediale 60 x 23 mm
1 Valva laterale 40 x 23 mm
1 Valva laterale 45 x 23 mm
1 Valva laterale 50 x 23 mm
1 Valva laterale 55 x 23 mm
1 Valva laterale 60 x 23 mm



Art.Nr.	Beschreibung Description	Size	Spez.
CASPAR			
medial medial medial medial mediale			
243-361-40	40 x 23 mm		
243-361-45	45 x 23 mm		
243-361-50	50 x 23 mm		
243-361-55	55 x 23 mm		
243-361-60	60 x 23 mm		
CASPAR			
lateral lateral lateral latéral laterale			
243-363-40	40 x 23 mm		
243-363-45	45 x 23 mm		
243-363-50	50 x 23 mm		
243-363-55	55 x 23 mm		
243-363-60	60 x 23 mm		
CASPAR			
stumpf blunt romo mousse smusso			
243-365-40	40 x 23 mm		
243-365-45	45 x 23 mm		
243-365-50	50 x 23 mm		
243-365-55	55 x 23 mm		
243-365-60	60 x 23 mm		
243-365-65	65 x 23 mm		
CASPAR			
stumpf blunt romo mousse smusso			
243-367-50	50 x 25 mm		
243-367-60	60 x 25 mm		

Cervicalspreizer Cervical Retractors

Separadores cervicales
Ecarteur de tissu cervical
Divaricatori cervicale

TONTARRA



Art.Nr.	Beschreibung Description	Size	Spez.
---------	----------------------------	------	-------

243-368-12 **Pinzette zum Valvenwechseln**
Forceps for changing blades
Pinza para cambiar las valvas
Pince pour le changement des valves
Pinza per cambiare le valve

11,5 cm; 4 1/2"



CASPAR

10,5 cm; 4 1/8"

SET



243-365-45
243-365-65



243-370-00 **bestehend aus:**
243-370-01 1 Sperrer
243-365-45 1 Valve stumpf 45 x 23 mm
243-365-50 1 Valve stumpf 50 x 23 mm
243-365-55 1 Valve stumpf 55 x 23 mm
243-365-60 1 Valve stumpf 60 x 23 mm
243-365-65 1 Valve stumpf 65 x 23 mm

243-370-00 **consisting of:**
243-370-01 1 Spreader
243-365-45 1 Valve blunt 45 x 23 mm
243-365-50 1 Valve blunt 50 x 23 mm
243-365-55 1 Valve blunt 55 x 23 mm
243-365-60 1 Valve blunt 60 x 23 mm
243-365-65 1 Valve blunt 65 x 23 mm

243-370-00 **compuesto de:**
243-370-01 1 Separador
243-365-45 1 Valva romo 45 x 23 mm
243-365-50 1 Valva romo 50 x 23 mm
243-365-55 1 Valva romo 55 x 23 mm
243-365-60 1 Valva romo 60 x 23 mm
243-365-65 1 Valva romo 65 x 23 mm

243-370-00 **composé de:**
243-370-01 1 Écarteur
243-365-45 1 Valve mousse 45 x 23 mm
243-365-50 1 Valve mousse 50 x 23 mm
243-365-55 1 Valve mousse 55 x 23 mm
243-365-60 1 Valve mousse 60 x 23 mm
243-365-65 1 Valve mousse 65 x 23 mm

243-370-00 **composto da:**
243-370-01 1 Divaricatore
243-365-45 1 Valva smusso 45 x 23 mm
243-365-50 1 Valva smusso 50 x 23 mm
243-365-55 1 Valva smusso 55 x 23 mm
243-365-60 1 Valva smusso 60 x 23 mm
243-365-65 1 Valva smusso 65 x 23 mm

Cervicalspreizer Cervical Retractor

Separador cervical
Ecarteur de tissu cervical
Divaricatori cervicale

TONTARRA



Art.Nr.	Beschreibung Description	Size	Spez.
	CASPAR	16,5 cm; 6 1/2"	SET



243-365-50
⋮
243-365-65



243-380-00
243-380-01
243-365-45
243-365-50
243-365-55
243-365-60
243-365-65

bestehend aus:
1 Sperrer
1 Valve stumpf 45 x 23 mm
1 Valve stumpf 50 x 23 mm
1 Valve stumpf 55 x 23 mm
1 Valve stumpf 60 x 23 mm
1 Valve stumpf 65 x 23 mm

243-380-00
243-380-01
243-365-45
243-365-50
243-365-55
243-365-60
243-365-65

consisting of:
1 Spreader
1 Valve blunt 45 x 23 mm
1 Valve blunt 50 x 23 mm
1 Valve blunt 55 x 23 mm
1 Valve blunt 60 x 23 mm
1 Valve blunt 65 x 23 mm

243-380-00
243-380-01
243-365-45
243-365-50
243-365-55
243-365-60
243-365-65

compuesto de:
1 Separador
1 Valva romo 45 x 23 mm
1 Valva romo 50 x 23 mm
1 Valva romo 55 x 23 mm
1 Valva romo 60 x 23 mm
1 Valva romo 65 x 23 mm

243-380-00
243-380-01
243-365-45
243-365-50
243-365-55
243-365-60
243-365-65

composé de:
1 Écarteur
1 Valve mousse 45 x 23 mm
1 Valve mousse 50 x 23 mm
1 Valve mousse 55 x 23 mm
1 Valve mousse 60 x 23 mm
1 Valve mousse 65 x 23 mm

243-380-00
243-380-01
243-365-45
243-365-50
243-365-55
243-365-60
243-365-65

composto da:
1 Divaricatore
1 Valva smusso 45 x 23 mm
1 Valva smusso 50 x 23 mm
1 Valva smusso 55 x 23 mm
1 Valva smusso 60 x 23 mm
1 Valva smusso 65 x 23 mm



Art.Nr.	Beschreibung Description		Size	Spez.	
CASPAR			15,0 cm; 6"		
					
243-390-40	40 x 18 mm (a x b)	243-390-45	45 x 18 mm	243-390-50	50 x 18 mm
					
243-390-55	55 x 18 mm	243-390-60	60 x 18 mm		

Lumbalwundspreizer Lumbar Retractors

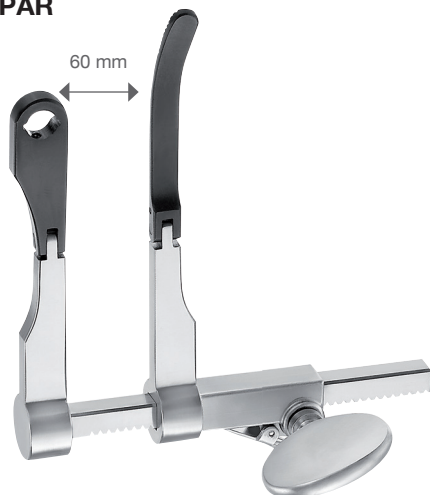
Separadores lumbales autoestáticos
Ecarteurs autostatiques lombaires
Divaricatori autostatici lombari

TONTARRA



Art.Nr. Beschreibung | Description Size Spez.

CASPAR



SET

243-410-00

243-410-01
243-413-35
243-413-40
243-413-45
243-413-50
243-413-55
243-413-60

bestehend aus:

1 Rahmen
1 Seitenvalve 35 x 12 mm
1 Seitenvalve 40 x 13 mm
1 Seitenvalve 45 x 13 mm
1 Seitenvalve 50 x 14 mm
1 Seitenvalve 55 x 14 mm
1 Seitenvalve 60 x 15 mm

243-410-00

243-410-01
243-413-35
243-413-40
243-413-45
243-413-50
243-413-55
243-413-60

compuesto de:

1 Cuadro
1 Valva lateral 35 x 12 mm
1 Valva lateral 40 x 13 mm
1 Valva lateral 45 x 13 mm
1 Valva lateral 50 x 14 mm
1 Valva lateral 55 x 14 mm
1 Valva lateral 60 x 15 mm

243-410-00

243-410-01
243-413-35
243-413-40
243-413-45
243-413-50
243-413-55
243-413-60

composé de:

1 Cadre
1 Valve latéral 35 x 12 mm
1 Valve latéral 40 x 13 mm
1 Valve latéral 45 x 13 mm
1 Valve latéral 50 x 14 mm
1 Valve latéral 55 x 14 mm
1 Valve latéral 60 x 15 mm

243-410-00

243-410-01
243-413-35
243-413-40
243-413-45
243-413-50
243-413-55
243-413-60

consisting of:

1 Frame
1 Lateral blade 35 x 12 mm
1 Lateral blade 40 x 13 mm
1 Lateral blade 45 x 13 mm
1 Lateral blade 50 x 14 mm
1 Lateral blade 55 x 14 mm
1 Lateral blade 60 x 15 mm

243-410-00

243-410-01
243-413-35
243-413-40
243-413-45
243-413-50
243-413-55
243-413-60

composto da:

1 Telaio
1 Valva laterale 35 x 12 mm
1 Valva laterale 40 x 13 mm
1 Valva laterale 45 x 13 mm
1 Valva laterale 50 x 14 mm
1 Valva laterale 55 x 14 mm
1 Valva laterale 60 x 15 mm

CASPAR

lateral | lateral | lateral | latéral | lateral

243-413-35

35 x 12 mm

243-413-50

50 x 14 mm

243-413-40

40 x 13 mm

243-413-55

55 x 14 mm

243-413-45

45 x 13 mm

243-413-60

60 x 15 mm



medial | medial | medial | medial | medial

243-414-35

35 x 12 mm

243-414-50

50 x 14 mm

243-414-40

40 x 13 mm

243-414-55

55 x 14 mm

243-414-45

45 x 13 mm

243-414-60

60 x 15 mm



243

Lumbalwundspreizer Lumbar Retractors

Separadores lumbales autoestáticos

Ecarteurs autostatiques lombaires

Divaricatori autostatici lombari

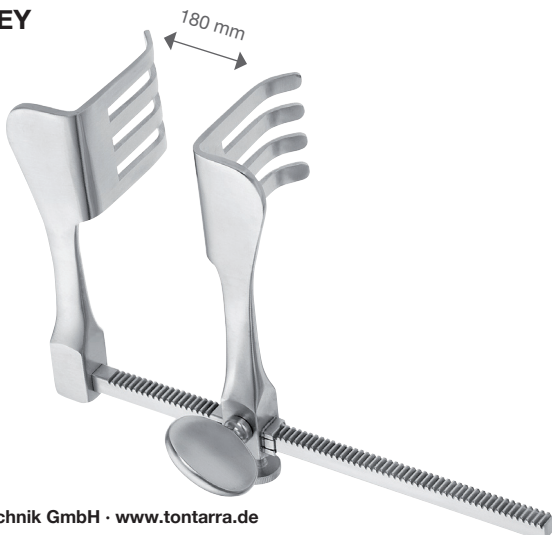
TONTARRA



Art.Nr.	Beschreibung Description	Size	Spez.
SCOVILLE			SET
			
243-415-00	bestehend aus:	243-415-00	compuesto de:
243-415-01	1 Rahmen	243-415-01	1 Cuadro
243-421-50	1 Haken 50 mm	243-421-50	1 Gancho 50 mm
243-423-01	1 Seitenvlase 63 x 25 mm	243-423-01	1 Valva lateral 63 x 25 mm
243-415-00	consisting of:	243-415-00	composé de:
243-415-01	1 Frame	243-415-01	1 Cadre
243-421-50	1 Hooks 50 mm	243-421-50	1 Crochet 50 mm
243-423-01	1 Lateral blade 63 x 25 mm	243-423-01	1 Valve latéral 63 x 25 mm
243-415-00	consisting of:	243-415-00	composto da:
243-415-01	1 Frame	243-415-01	1 Telaio
243-421-50	1 Hooks 50 mm	243-421-50	1 Uncino 50 mm
243-423-01	1 Lateral blade 63 x 25 mm	243-423-01	1 Valva laterale 63 x 25 mm

SCOVILLE-HAVERFIELD			SET
mit Gelenkarmen with articulated arms con brazos articulados avec bras articulés con braccio articolato			
			
243-420-00	bestehend aus:	243-420-00	compuesto de:
243-420-01	1 Rahmen	243-420-01	1 Cuadro
243-421-50	1 Haken 50 mm	243-421-50	1 Gancho 50 mm
243-423-01	1 Seitenvlase 63 x 25 mm	243-423-01	1 Valva lateral 63 x 25 mm
243-420-00	consisting of:	243-420-00	composé de:
243-420-01	1 Frame	243-420-01	1 Cadre
243-421-50	1 Hook 50 mm	243-421-50	1 Crochet 50 mm
243-423-01	1 Lateral blades 63 x 25 mm	243-423-01	1 Valve latéral 63 x 25 mm
243-420-00	consisting of:	243-420-00	composto da:
243-420-01	1 Frame	243-420-01	1 Telaio
243-421-50	1 Hook 50 mm	243-421-50	1 Uncino 50 mm
243-423-01	1 Lateral blades 63 x 25 mm	243-423-01	1 Valva laterale 63 x 25 mm



Art.Nr.	Beschreibung Description	Size	Spez.
SCOVILLE			
243-421-50	50,0 mm		
243-421-75	75,0 mm		
SCOVILLE			
243-422-50	50,0 mm		
243-422-75	75,0 mm		
SCOVILLE			
243-423-01	63 x 25 mm		
243-423-02	63 x 51 mm		
243-423-03	67 x 32 mm		
TAYLOR			
243-425-03	47 x 37 mm		
243-425-04	63 x 51 mm		
243-427-01	48 x 50 mm		
243-427-03	64 x 63 mm		
243-427-04	80 x 57 mm		
243-450-00	BADGLEY	52 x 44 mm	
			

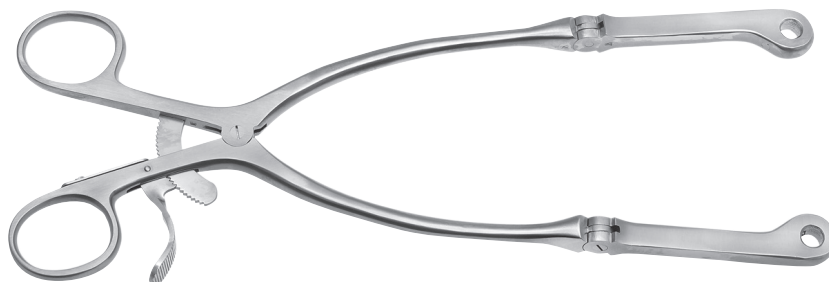
28

TONTARRA

Medizintechnik GmbH · www.tontarra.de



Art.Nr.	Beschreibung Description	Size	Spez.
	CLOWARD	25,0 cm; 10"	SET



243-460-00

243-460-01
243-461-40
243-461-45
243-461-50
243-461-55
243-461-60

bestehend aus:

1 Sperrer
1 gezahnte Seitenvalve 40 x 15 - 23 mm
1 gezahnte Seitenvalve 45 x 15 - 23 mm
1 gezahnte Seitenvalve 50 x 15 - 23 mm
1 gezahnte Seitenvalve 55 x 15 - 23 mm
1 gezahnte Seitenvalve 60 x 15 - 23 mm

243-460-00

243-460-01
243-461-40
243-461-45
243-461-50
243-461-55
243-461-60

compuesto de:

1 Separador
1 valva lateral dentada 40 x 15 - 23 mm
1 valva lateral dentada 45 x 15 - 23 mm
1 valva lateral dentada 50 x 15 - 23 mm
1 valva lateral dentada 55 x 15 - 23 mm
1 valva lateral dentada 60 x 15 - 23 mm

243-460-00

243-460-01
243-461-40
243-461-45
243-461-50
243-461-55
243-461-60

consisting of:

1 Spreader
1 lateral valve serrated 40 x 15 - 23 mm
1 lateral valve serrated 45 x 15 - 23 mm
1 lateral valve serrated 50 x 15 - 23 mm
1 lateral valve serrated 55 x 15 - 23 mm
1 lateral valve serrated 60 x 15 - 23 mm

243-460-00

243-460-01
243-461-40
243-461-45
243-461-50
243-461-55
243-461-60

composé de:

1 Écarteur
1 valve latérale dentelée 40 x 15 - 23 mm
1 valve latérale dentelée 45 x 15 - 23 mm
1 valve latérale dentelée 50 x 15 - 23 mm
1 valve latérale dentelée 55 x 15 - 23 mm
1 valve latérale dentelée 60 x 15 - 23 mm

243-460-00

243-460-01
243-461-40
243-461-45
243-461-50
243-461-55
243-461-60

composto da:

1 Divaricatore
1 valva laterale dentellata 40 x 15 - 23 mm
1 valva laterale dentellata 45 x 15 - 23 mm
1 valva laterale dentellata 50 x 15 - 23 mm
1 valva laterale dentellata 55 x 15 - 23 mm
1 valva laterale dentellata 60 x 15 - 23 mm

243-461-40



40 x 15 - 23 mm

243-461-55



55 x 15 - 23 mm

243-461-45



45 x 15 - 23 mm

243-461-60



60 x 15 - 23 mm

243-461-50



50 x 15 - 23 mm



Art.Nr.	Beschreibung Description	Size	Spez.
	CLOWARD	13,0 cm; 5 1/8"	SET



243-465-00

243-465-01
243-462-40
243-462-45
243-462-50
243-462-55
243-462-60

bestehend aus:

1 Sperrer
1 stumpfe Seitenvalve 40 x 15 - 23 mm
1 stumpfe Seitenvalve 45 x 15 - 23 mm
1 stumpfe Seitenvalve 50 x 15 - 23 mm
1 stumpfe Seitenvalve 55 x 15 - 23 mm
1 stumpfe Seitenvalve 60 x 15 - 23 mm

243-465-00

243-465-01
243-462-40
243-462-45
243-462-50
243-462-55
243-462-60

compuesto de:

1 Separador
1 valva lateral roma 40 x 15 - 23 mm
1 valva lateral roma 45 x 15 - 23 mm
1 valva lateral roma 50 x 15 - 23 mm
1 valva lateral roma 55 x 15 - 23 mm
1 valva lateral roma 60 x 15 - 23 mm

243-465-00

243-465-01
243-462-40
243-462-45
243-462-50
243-462-55
243-462-60

consisting of:

1 Spreader
1 lateral valve blunt 40 x 15 - 23 mm
1 lateral valve blunt 45 x 15 - 23 mm
1 lateral valve blunt 50 x 15 - 23 mm
1 lateral valve blunt 55 x 15 - 23 mm
1 lateral valve blunt 60 x 15 - 23 mm

243-465-00

243-465-01
243-462-40
243-462-45
243-462-50
243-462-55
243-462-60

composé de:

1 Écarteur
1 valve latérale mousse 40 x 15 - 23 mm
1 valve latérale mousse 45 x 15 - 23 mm
1 valve latérale mousse 50 x 15 - 23 mm
1 valve latérale mousse 55 x 15 - 23 mm
1 valve latérale mousse 60 x 15 - 23 mm

243-465-00

243-465-01
243-462-40
243-462-45
243-462-50
243-462-55
243-462-60

composto da:

1 Divaricatore
1 valva laterale smussa 40 x 15 - 23 mm
1 valva laterale smussa 45 x 15 - 23 mm
1 valva laterale smussa 50 x 15 - 23 mm
1 valva laterale smussa 55 x 15 - 23 mm
1 valva laterale smussa 60 x 15 - 23 mm

243-462-40



40 x 15 - 23 mm

243-462-55



55 x 15 - 23 mm

243-462-45



45 x 15 - 23 mm

243-462-60



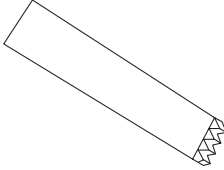
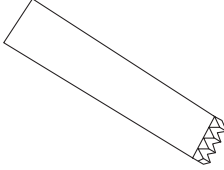
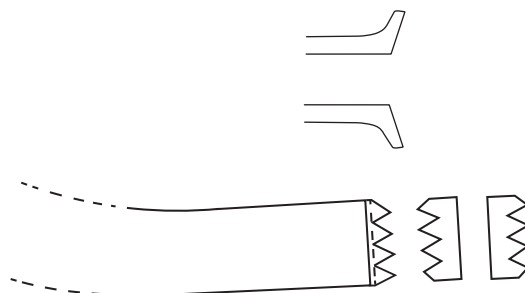
60 x 15 - 23 mm

243-462-50



50 x 15 - 23 mm



Art.Nr.	Beschreibung Description	Size	Spez.
243-473-13	CLOWARD Spreizweite 18 mm Spreading 18 mm Abertura 18 mm Écartement 18 mm Apertura 18 mm	15,0 cm; 5 7/8"	
1/1	 		
243-482-16	CLOWARD Spreizweite 18 mm Spreading 18 mm Abertura 18 mm Écartement 18 mm Apertura 18 mm	16,0 cm; 6 2/8"	
1/1	 		
243-497-17	INGE Spreizweite 35 mm Spreading 35 mm Abertura 35 mm Écartement 35 mm Apertura 35 mm	16,0 cm; 6 2/8"	
1/1	 		
243-498-27	INGE Spreizweite 70 mm Spreading 70 mm Abertura 70 mm Écartement 70 mm Apertura 70 mm	25,5 cm; 10"	
1/1	 		

Mikro-Pinzetten; Tumorfasspinzetten
Micro Forceps; Tumor Grasping Forceps
Micro-Pinzas; Pinzas para agarrar tumores
Micro-Pinces; Pinces pour saisir des tumeurs
Micro-Pinze; Pinze da presa per tumori



Art.Nr.	Beschreibung Description	Size	Spez.
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YASARGIL



243-510-18	18,0 cm; 7 1/8"		0,6 mm
243-510-20	20,0 cm; 7 7/8"		
243-510-22	22,0 cm; 8 5/8"		
243-510-24	24,0 cm; 9 4/8"		
243-512-18	18,0 cm; 7 1/8"		0,9 mm
243-512-20	20,0 cm; 7 7/8"		
243-512-22	22,0 cm; 8 5/8"		
243-512-24	24,0 cm; 9 4/8"		
243-515-18	18,0 cm; 7 1/8"		1 x 2



YASARGIL	22,0 cm; 8 5/8"
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243-520-03		Ø 3,0 mm
243-520-05		Ø 5,0 mm

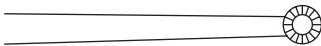
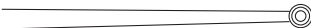
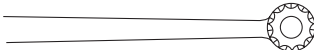
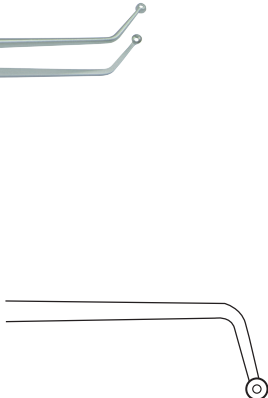
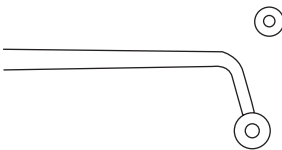
1/1

YASARGIL-SAMII	24,0 cm; 9 4/8"
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243-522-03		Ø 3,0 mm
243-522-05		Ø 5,0 mm
243-522-07		Ø 7,0 mm

1/1



Art.Nr.	Beschreibung Description	Size	Spez.
			
YASARGIL		22,0 cm; 8 5/8"	
243-524-03	 Ø 3,0 mm		
243-524-05	 Ø 5,0 mm		
1/1			
YASARGIL-SAMII		22,0 cm; 8 5/8"	
243-526-03	 Ø 3,0 mm		
243-526-05	 Ø 5,0 mm		
1/1			
SAMII		23,0 cm; 9"	
			
243-527-03	 Ø 3,0 mm	243-529-03	 Ø 3,0 mm
243-527-04	 Ø 4,0 mm	243-529-04	 Ø 4,0 mm
243-527-05	 Ø 5,0 mm	243-529-05	 Ø 5,0 mm
1/1			



Art.Nr.	Beschreibung Description	Size	Spez.
		18,5 cm; 7 2/8"	



243-516-03		0,3 mm
243-516-06		0,6 mm
243-517-06		0,6 mm

1/1



243-550-12	12,0 cm; 4 6/8"		0,3 mm
243-550-15	15,0 cm; 5 7/8"		
243-550-18	18,0 cm; 7 1/8"		
243-550-21	21,0 cm; 8 2/8"		

243-551-12	12,0 cm; 4 6/8"		0,3 mm
243-551-15	15,0 cm; 5 7/8"		
243-551-18	18,0 cm; 7 1/8"		
243-551-21	21,0 cm; 8 2/8"		

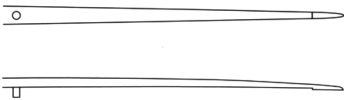
243-560-12	12,0 cm; 4 6/8"		0,3 mm		1 x 2
243-560-15	15,0 cm; 5 7/8"				
243-560-18	18,0 cm; 7 1/8"				

243-561-12	12,0 cm; 4,8"		0,3 mm		1 x 2
243-561-15	15,0 cm; 5 7/8"				
243-561-18	18,0 cm; 7 1/8"				

Mikro-Knüpfpinzetten
Micro Suture Tying Forceps

Micro-Pinza para enlazar
Micro-Pinces pour nouer le fil
Micro-Pinze per annadore fili

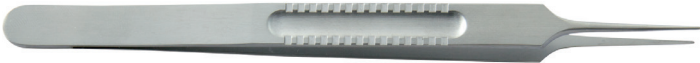


Art.Nr.	Beschreibung Description	Size	Spez.
243-570-23	  0,6 mm	23,0 cm; 9"	
AUSTIN			
243-572-14	14,0 cm; 5 4/8" 	0,8 mm	
243-572-18	18,0 cm; 7 1/8" 	0,8 mm	
1/1			
243-574-12	  0,3 mm	12,0 cm; 4 6/8"	
1/1			
243-576-13	WISE   0,3 mm	13,5 cm; 5 3/8"	
1/1			

Mikro-Knüpfpinzetten
Micro Suture Tying Forceps

Micro-Pinza para enlazar
Micro-Pinces pour nouer le fil
Micro-Pinze per annadore fili



Art.Nr.	Beschreibung Description	Size	Spez.
243-577-13	WISE    0,3 mm	13,5 cm; 5 3/8	
	1/1		
	LAZAR 	15,5 cm; 6 1/8"	
243-578-05	 0,5 mm		
243-578-08	 0,8 mm		
	1/1		
243-580-18	   0,5 mm	18,5 cm; 7 2/8"	

1/1



Art.Nr.	Beschreibung Description	Size	Spez.
		23,0 cm; 9"	



243-620-01 halbscharf | semi-sharp | semi-agudo | semi-pointu | semi-acuto



243-620-02 stumpf | blunt | romo | mousse | smusso



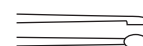
243-621-01 Dissektor | Dissector | Disecador | Dissecteur | Dissetto



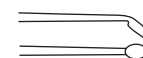
243-621-02 Dissektor | Dissector | Disecador | Dissecteur | Dissetto



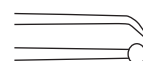
243-622-01 Löffel | Scoop | Cucharilla | Cuillère | Cucchiaio



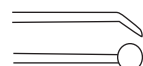
243-622-02 Löffel | Scoop | Cucharilla | Cuillère | Cucchiaio



243-623-01 Fig. 1 Raspatorium | Periosteal elevator
Legra | Rugine-raspatoire | Raspatore



243-623-02 Fig. 2 Raspatorium | Periosteal elevator
Legra | Rugine-raspatoire | Raspatore



1/1

23,0 cm; 9"



Dissektor | Dissector | Disecador | Dissecteur | Dissetto

243-635-01



243-635-02



1/1

Raspatorium | Periosteal elevator | Legra | Rugine-raspatoire | Raspatore

243-635-03



1/1



Art.Nr.	Beschreibung Description	Size	Spez.
	CASPAR Explorationshaken; isoliert Exploration hook; insulated Ganchos para exploración; aislados Crochet pour exploration; isolé Uncini per esplorazione; isolati	25,0 cm; 10"	



243-644-01 Fig. 1

243-644-02 Fig. 2

243-644-03 Fig. 3

243-644-04 Fig. 4

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YASARGIL	18,5 cm; 7 2/8"
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243-660-01	1,0 mm		243-660-03	Ø 4,0 mm	
243-660-02	2,5 mm		243-660-04	Ø 2,5 mm	
			243-660-05	Ø 3,0 mm	

1/1

1/1



Art.Nr.	Beschreibung Description	Size	Spez.
YASARGIL		18,5 cm; 7 2/8"	
243-661-01		243-661-03	
243-661-02			
1/1	1/1		
YASARGIL		18,5 cm; 7 2/8"	
1/1			
KOOS		18,5 cm; 7 2/8"	
243-665-01		243-665-02	
243-667-01		243-667-02	
243-669-01		243-669-02	
1/1	1/1		
YASARGIL		18,5 cm; 7 2/8"	
243-673-01		243-673-02	
1/1	1/1		



Art.Nr.	Beschreibung Description	Size	Spez.
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JACOBSON

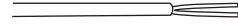
18,5 cm; 7 2/8"



243-676-19



243-677-02



243-677-01



243-679-18



1/1

1/1

YASARGIL Fadenführer; geknüpft
Ligature guide and carrier; pointed
Guía-ligadura; abotonada
Guide conducteur; boutonnée
Guida per legatura; bottonuta

18,5 cm; 7 2/8"



243-685-01

Fig. 1



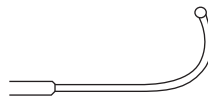
243-685-03

Fig. 3



243-685-02

Fig. 2



243-685-04

Fig. 4



1/1

1/1

243-687-19

Gewebekralle
Tissue claw

Garra para el tejido

Griffe pour tissu

Graffa per tessuto

18,5 cm; 7 2/8"



Ø 1,5 mm

1/1



Art.Nr.	Beschreibung <i>Description</i>	Size	Spez.
243-730-22	YASARGIL	18,0 cm; 7 1/8"	



Ø 2,2 mm

1/1

CASPAR	25,0 cm; 9 7/8"
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243-800-04		4,0 mm	243-800-05		5,0 mm
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1/1

CASPAR



243-801-03		3,0 mm	243-801-04		4,0 mm
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1/1



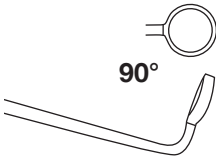
Art.Nr.	Beschreibung <i>Description</i>	Size	Spez.
	RAY	18,5cm; 7 2/8"	



243-810-04		Ø 4,0 mm; 45°	243-812-04		Ø 4,0 mm; 90°
243-813-04		Ø 4,0 mm; 45°			

1/1 1/1

	HARDY	18,5 cm; 7 2/8"
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243-818-04	Ø 4,0 mm
243-818-06	Ø 6,0 mm

1/1



Art.Nr.	Beschreibung Description	Size	Spez.
		24,5 cm; 9 5/8"	



HARDY

243-830-01	stumpf blunt romo mousse smusso	
243-830-02	stumpf blunt romo mousse smusso	
243-832-01	scharf sharp agudo pointu acuto	
243-832-02	scharf sharp agudo pointu acuto	

1/1

HARDY-FAHLBUSCH

243-840-01	scharf sharp agudo pointu acuto	
243-840-02	scharf sharp agudo pointu acuto	

1/1

243-836-24	HARDY
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1/1

