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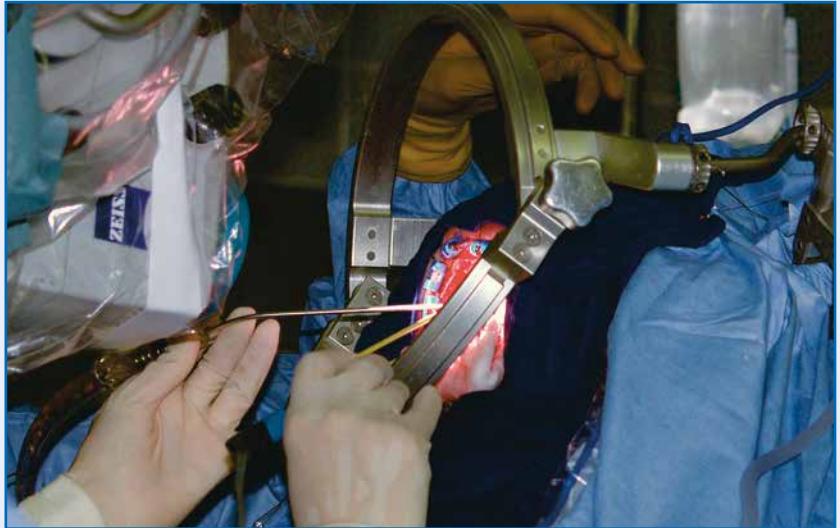
neuro **CRANIALIS**

Instrumente für die kraniale Neurochirurgie
Instruments for Cranial Neurosurgery
Instrumentos para la neurocirugía craneal
Instruments pour la neurochirurgie crânienne
Strumenti per la neurochirurgia cranica

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Standardinstrumente
Basic Instruments
Instrumentos básicos
Instruments de base
Strumenti di base

A

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Instruments for Cranial Neurosurgery
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B

Siebvorschläge
Set Suggestions
Proposiciones de juegos
Propositions pour boîtes
Proposte di set

C

Alphabetischer und numerischer Index
Alphabetical and Numerical Index
Indice alfabético y numérico
Index alphabétique et numérique
Indice alfabetico e numerico

D

A

Standardinstrumente

Basic Instruments

Instrumentos básicos

Instruments de base

Strumenti di base

A01	Skalpellklingen und Skalpellgriffe Scalpel blades and scalpel handles Hojas de bisturí y mangos de bisturí Lames de bistouris et manches pour bistouris Lame per bisturi e manici per bisturi	3
A02	Scheren Scissors Tijeras Ciseaux Forbici	7
A03	Pinzetten Forceps Pinzas Pinces Pinze	31
A04	Bipolare Pinzetten Bipolar forceps Pinzas bipolares Pince bipolar Pinze bipolari	57
A05	Nadelhalter Needle holders Porta-agujas Porte-aiguilles Portaghi	65
A06	Saug- und Spülinstrumente Suction and irrigating instruments Instrumentos de aspiración y de lavado Instruments à aspiration et à irrigation Strumenti per aspirazione e lavaggio	79
A07	Klemmen Clamps Pinzas Clamps Pinze	85
A08	Gefäßclips Vessel clips Clips vasculares Clips vasculaires Clip vascolari	89
A09	Wundhaken und Wundspreizer Retractors and self-retaining retractors Separadores y separadores autoestáticos Ecarteurs et écarteurs autostatiques Divaricatori e divaricatori autostatici	99
A10	Elevatorien und Raspatorien Elevators and raspatories Elevadores y legras Elévateurs et rugines Elevatori e periostotomi	105
A11	Hohlmeißel- und Knochensplitterzangen Bone rongeurs forceps and bone cutting forceps Pinzas-gubias y pinzas cortantes para huesos Pince-gouges et pinces coupantes à os Pinze-sgorbie e pinze ossivore	119

B

Instrumente für die kraniale Neurochirurgie Instruments for Cranial Neurosurgery Instrumentos para la neurocirugía craneal Instruments pour la neurochirurgie crânienne Strumenti per la neurochirurgia cranica

B01	Kopfhalterungssystem Head rest system Sistema de fijación craneal Système de maintien crânien Sistema di fissazione cranica	131
B02	Kopfhautklammern Scalp clips Clips hemostáticos para cuero cabelludo Clips hémostatiques pour cuir chevelu Clip emostatiche per cuoio capelluto	139
B03	Instrumente für die Trepanation und Kraniotomie Instruments for the trepanation and craniotomy Instrumentos para la trepanación y craneotomía Instruments pour la trépanation et craniotomie Strumenti per la trapanazione e craniotomia	143
B04	Stanzen Rongeurs Pinzas saca-bocadas Pinces emporte-pièce Laminotomi	153
B05	Haken und Dissektoren Hooks and dissectors Ganchos y disectores Crochets et dissecteurs Uncini e dissettori	165
B06	Diamantmesser und Mikro-Instrumente Diamond knives and micro instruments Cuchillos de diamante y micro instrumentos Couteau de diamant et micro-instruments Bisturi diamantati e strumenti micro	185
B07	Hirnspatel und Hirnspatelhalter Brain spatulas and brain spatula retractors Espátulas cerebrales y separadores para espátulas cerebrales Spatules cérébrales et écarteurs pour des spatules cérébrales Spatole cerebrali e divaricatori cerebrale	199
B08	Zerebrovaskuläre Clips Cerebrovascular clips Clips cerebrovasculares Clips vasculaires cérébraux Clip cerebrovascolari	207
B09	Neuro-Fixationssystem Neuro-fixation system Sistema para neuro-fijación Système de neuro-fixation Sistema di neuro-fissaggio	233
B10	Instrumente für die Hypophysektomie Instruments for hypophysectomy Instrumentos para la hipofisección Instruments pour l'hypophysectomie Strumenti per ipofisectomia	251
B11	Druckluftmotorensystem Pneumatic high speed system Sistema de motor neumático Système de moteur pneumatique Sistema motore pneumatico	265

C

Siebvorschläge
Set Suggestions
Proposiciones de juegos
Propositions pour boîtes
Proposte di set

C01	Siebvorschlag für die Schädeleröffnung Set Suggestion for craniotomy Proposición de juego para la apertura del cráneo Proposition à boîte pour l'ouverture du crâne Proposta di set per l'apertura del cranio	279
C02	Siebvorschlag für Eingriffe an der hinteren Schädelgrube Set suggestion for procedures of the posterior cranial fossa Proposición de juego para los procedimientos en la fosa posterior del cráneo Proposition pour boîte pour les procédures sur fosse postérieure du crâne Proposta di set per le procedure sulla fossa cranica posteriore	281
C03	Siebvorschlag für Eingriffe am Schädel Set suggestion for procedures of the skull Proposición de juego para los procedimientos en el cráneo Proposition à boîte pour les procédures sur le crâne Proposta di set per le procedure sul cranio	282
C04	Siebvorschlag für die kraniale Mikrochirurgie Set suggestion for cranial microsurgery Proposición de juego para microcirugía craneal Proposition à boîte de microchirurgie crânienne Proposta di set per la microchirurgia cranica	285
C05	Siebvorschlag für Hydrocephalus Shunt Set suggestion for hydrocephalus shunt Proposición de juego de Shunt para hidrocefalia Proposition à boîte pour Shunt hydrocéphale Proposta di set per l'idrocefalo Shunt	286
C06	Siebvorschlag für Handinstrumente der peripheren Nerven Set suggestion for hand instruments of the peripheral nerves Proposición de juego para instrumentos de mano de los nervios periféricos Proposition à boîte pour instruments à main des nerfs périphériques Proposta di set per strumenti della mano dei nervi periferici	288
C07	Siebvorschlag für die transsphenoidale Hypophysektomie Set suggestion for transsphenoidal hypophysectomy Proposición de juego para la hipofisectomía transesfenoidal Proposition à boîte pour l'hypophysectomie transsphénoidale Proposta di set per l'ipofisectomia transfenoidale	290

D

Alphabetischer und numerischer Index
Alphabetical and Numerical Index
Indice alfabético y numérico
Index alphabétique et numérique
Indice alfabetico e numerico

D01	Alphabetischer Index	DEUTSCH	295
D02	Alphabetical index	ENGLISH	301
D03	Indice alfabético	ESPAÑOL	307
D04	Index alphabétique	FRANÇAIS	313
D05	Indice alfabetico	ITALIANO	319
D06	Numerischer Index Numerical index Indice numérico Index numérique Indice numerico		326

Hinweise
Indications
Indicaciones
Indications
Indicazioni

Unsere Instrumenten-Abbildungen haben eine Größe von 50 %. Andere Darstellungsgrößen werden im Maßstab (zum Beispiel 1:1) angegeben. Die dazugehörigen Detailbilder sind in Originalgröße (100 %) abgebildet. Die angegebenen Bemaßungen unterliegen herstellungsbedingt einer Fertigungstoleranz.

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Beispiel
Example
Ejemplo
Exemple
Esempio

Vorderansicht (Schere gerade)
Front view (straight scissors)
Vista frontal (tijera recta)
Vue de face (ciseaux droits)
Vista frontale (forbice retta)

Seitenansicht (Schere gebogen)
Lateral view (curved scissors)
Vista lateral (tijera curva)
Vue latérale (ciseaux courbes)
Vista laterale (forbice curva)



50 % = 7 cm

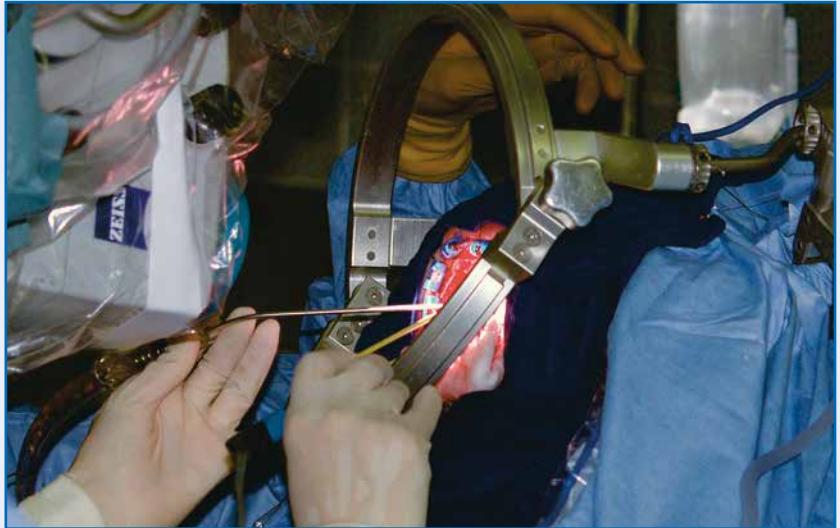
1:1

Darstellungsgröße
Image size
Tamaño de representación
Dimension de représentation
Dimensione di raffigurazione

Instrumentengröße
Instrument size
Tamaño del instrumento
Taille des instruments
Dimensione degli strumenti

14 cm – 5½"	14 cm – 5½"	
03.50.14	03.51.14	standard
203.50.14	203.51.14	supercut
213.50.14	213.51.14	blackline
03.50.64	03.51.64	"HM"
203.50.64	202.51.64	supercut plus
223.50.64	222.51.64	magiccut

Artikelnummer
Item number
Número de artículo
Référence
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Le domaine de compétence **NEURO+SPINE** se concentre sur notre gamme d'instruments de grande qualité et d'implants novateurs pour la neurochirurgie, avec une spécialisation sur les produits comme base d'une stratégie de vente transparente.

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Standardinstrumente
Basic Instruments
Instrumentos básicos
Instruments de base
Strumenti di base

A

Instrumente für die kraniale Neurochirurgie
Instruments for Cranial Neurosurgery
Instrumentos para la neurocirugía craneal
Instruments pour la neurochirurgie crânienne
Strumenti per la neurochirurgia cranica

B

Siebvorschläge
Set Suggestions
Proposiciones de juegos
Propositions pour boîtes
Proposte di set

C

Alphabetischer und numerischer Index
Alphabetical and Numerical Index
Indice alfabético y numérico
Index alphabétique et numérique
Indice alfabetico e numerico

D

A

Standardinstrumente

Basic Instruments

Instrumentos básicos

Instruments de base

Strumenti di base

A01	Skalpellklingen und Skalpellgriffe Scalpel blades and scalpel handles Hojas de bisturí y mangos de bisturí Lames de bistouris et manches pour bistouris Lame per bisturi e manici per bisturi	3
A02	Scheren Scissors Tijeras Ciseaux Forbici	7
A03	Pinzetten Forceps Pinzas Pinces Pinze	31
A04	Bipolare Pinzetten Bipolar forceps Pinzas bipolares Pince bipolar Pinze bipolari	57
A05	Nadelhalter Needle holders Porta-agujas Porte-aiguilles Portaghi	65
A06	Saug- und Spülinstrumente Suction and irrigating instruments Instrumentos de aspiración y de lavado Instruments à aspiration et à irrigation Strumenti per aspirazione e lavaggio	79
A07	Klemmen Clamps Pinzas Clamps Pinze	85
A08	Gefäßclips Vessel clips Clips vasculares Clips vasculaires Clip vascolari	89
A09	Wundhaken und Wundspreizer Retractors and self-retaining retractors Separadores y separadores autoestáticos Ecarteurs et écarteurs autostatiques Divaricatori e divaricatori autostatici	99
A10	Elevatorien und Raspatorien Elevators and raspatories Elevadores y legras Elévateurs et rugines Elevatori e periostotomi	105
A11	Hohlmeißel- und Knochensplitterzangen Bone rongeurs forceps and bone cutting forceps Pinzas-gubias y pinzas cortantes para huesos Pince-gouges et pinces coupantes à os Pinze-sgorbie e pinze ossivore	119

B

Instrumente für die kraniale Neurochirurgie Instruments for Cranial Neurosurgery Instrumentos para la neurocirugía craneal Instruments pour la neurochirurgie crânienne Strumenti per la neurochirurgia cranica

B01	Kopfhalterungssystem Head rest system Sistema de fijación craneal Système de maintien crânien Sistema di fissazione cranica	131
B02	Kopfhautklammern Scalp clips Clips hemostáticos para cuero cabelludo Clips hémostatiques pour cuir chevelu Clip emostatiche per cuoio capelluto	139
B03	Instrumente für die Trepanation und Kraniotomie Instruments for the trepanation and craniotomy Instrumentos para la trepanación y craneotomía Instruments pour la trépanation et craniotomie Strumenti per la trapanazione e craniotomia	143
B04	Stanzen Rongeurs Pinzas saca-bocadas Pinces emporte-pièce Laminotomi	153
B05	Haken und Dissektoren Hooks and dissectors Ganchos y disectores Crochets et dissecteurs Uncini e dissettori	165
B06	Diamantmesser und Mikro-Instrumente Diamond knives and micro instruments Cuchillos de diamante y micro instrumentos Couteau de diamant et micro-instruments Bisturi diamantati e strumenti micro	185
B07	Hirnspatel und Hirnspatelhalter Brain spatulas and brain spatula retractors Espátulas cerebrales y separadores para espátulas cerebrales Spatules cérébrales et écarteurs pour des spatules cérébrales Spatole cerebrali e divaricatori cerebrale	199
B08	Zerebrovaskuläre Clips Cerebrovascular clips Clips cerebrovasculares Clips vasculaires cérébraux Clip cerebrovascolari	207
B09	Neuro-Fixationssystem Neuro-fixation system Sistema para neuro-fijación Système de neuro-fixation Sistema di neuro-fissaggio	233
B10	Instrumente für die Hypophysektomie Instruments for hypophysectomy Instrumentos para la hipofisección Instruments pour l'hypophysectomie Strumenti per ipofisectomia	251
B11	Druckluftmotorensystem Pneumatic high speed system Sistema de motor neumático Système de moteur pneumatique Sistema motore pneumatico	265

C

Siebvorschläge
Set Suggestions
Proposiciones de juegos
Propositions pour boîtes
Proposte di set

C01	Siebvorschlag für die Schädeleröffnung Set Suggestion for craniotomy Proposición de juego para la apertura del cráneo Proposition à boîte pour l'ouverture du crâne Proposta di set per l'apertura del cranio	279
C02	Siebvorschlag für Eingriffe an der hinteren Schädelgrube Set suggestion for procedures of the posterior cranial fossa Proposición de juego para los procedimientos en la fosa posterior del cráneo Proposition pour boîte pour les procédures sur fosse postérieure du crâne Proposta di set per le procedure sulla fossa cranica posteriore	281
C03	Siebvorschlag für Eingriffe am Schädel Set suggestion for procedures of the skull Proposición de juego para los procedimientos en el cráneo Proposition à boîte pour les procédures sur le crâne Proposta di set per le procedure sul cranio	282
C04	Siebvorschlag für die kraniale Mikrochirurgie Set suggestion for cranial microsurgery Proposición de juego para microcirugía craneal Proposition à boîte de microchirurgie crânienne Proposta di set per la microchirurgia cranica	285
C05	Siebvorschlag für Hydrocephalus Shunt Set suggestion for hydrocephalus shunt Proposición de juego de Shunt para hidrocefalia Proposition à boîte pour Shunt hydrocéphale Proposta di set per l'idrocefalo Shunt	286
C06	Siebvorschlag für Handinstrumente der peripheren Nerven Set suggestion for hand instruments of the peripheral nerves Proposición de juego para instrumentos de mano de los nervios periféricos Proposition à boîte pour instruments à main des nerfs périphériques Proposta di set per strumenti della mano dei nervi periferici	288
C07	Siebvorschlag für die transsphenoidale Hypophysektomie Set suggestion for transsphenoidal hypophysectomy Proposición de juego para la hipofisectomía transesfenoidal Proposition à boîte pour l'hypophysectomie transsphénoidale Proposta di set per l'ipofisectomia transfenoidale	290

D

Alphabetischer und numerischer Index
Alphabetical and Numerical Index
Indice alfabético y numérico
Index alphabétique et numérique
Indice alfabetico e numerico

D01	Alphabetischer Index	DEUTSCH	295
D02	Alphabetical index	ENGLISH	301
D03	Indice alfabético	ESPAÑOL	307
D04	Index alphabétique	FRANÇAIS	313
D05	Indice alfabetico	ITALIANO	319
D06	Numerischer Index Numerical index Indice numérico Index numérique Indice numerico		326

Hinweise
Indications
Indicaciones
Indications
Indicazioni

Unsere Instrumenten-Abbildungen haben eine Größe von 50 %. Andere Darstellungsgrößen werden im Maßstab (zum Beispiel 1:1) angegeben. Die dazugehörigen Detailbilder sind in Originalgröße (100 %) abgebildet. Die angegebenen Bemaßungen unterliegen herstellungsbedingt einer Fertigungstoleranz.

In general the instrument illustrations are scaled to be 50 % of actual size. If other scales are used they are indicated (for example 1:1). The corresponding detailed tip illustrations are shown in actual size (100 %). The stated measurements may have a slight variation in permissible tolerances due to minor variations in manufacturing conditions.

Las ilustraciones de los instrumentos tienen un tamaño de 50 %. Otros tamaños de las ilustraciones serán indicados con la indicación en una escala (por ejemplo 1:1). Los imágenes detallados pertinentes son en su tamaño original (100 %). Las dimensiones indicadas son sujeto de tolerancias.

Nos illustrations d'instruments sont à 50 % de la taille réelle. D'autres dimensions de représentation sont données avec indication d'échelle (par exemple 1:1). Les images de détail sont projetées en taille réelle (100 %). Toutes les dimensions données ont une tolérance de fabrication.

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Beispiel
Example
Ejemplo
Exemple
Esempio

Vorderansicht (Schere gerade)
Front view (straight scissors)
Vista frontal (tijera recta)
Vue de face (ciseaux droits)
Vista frontale (forbice retta)

Seitenansicht (Schere gebogen)
Lateral view (curved scissors)
Vista lateral (tijera curva)
Vue latérale (ciseaux courbes)
Vista laterale (forbice curva)



50 % = 7 cm

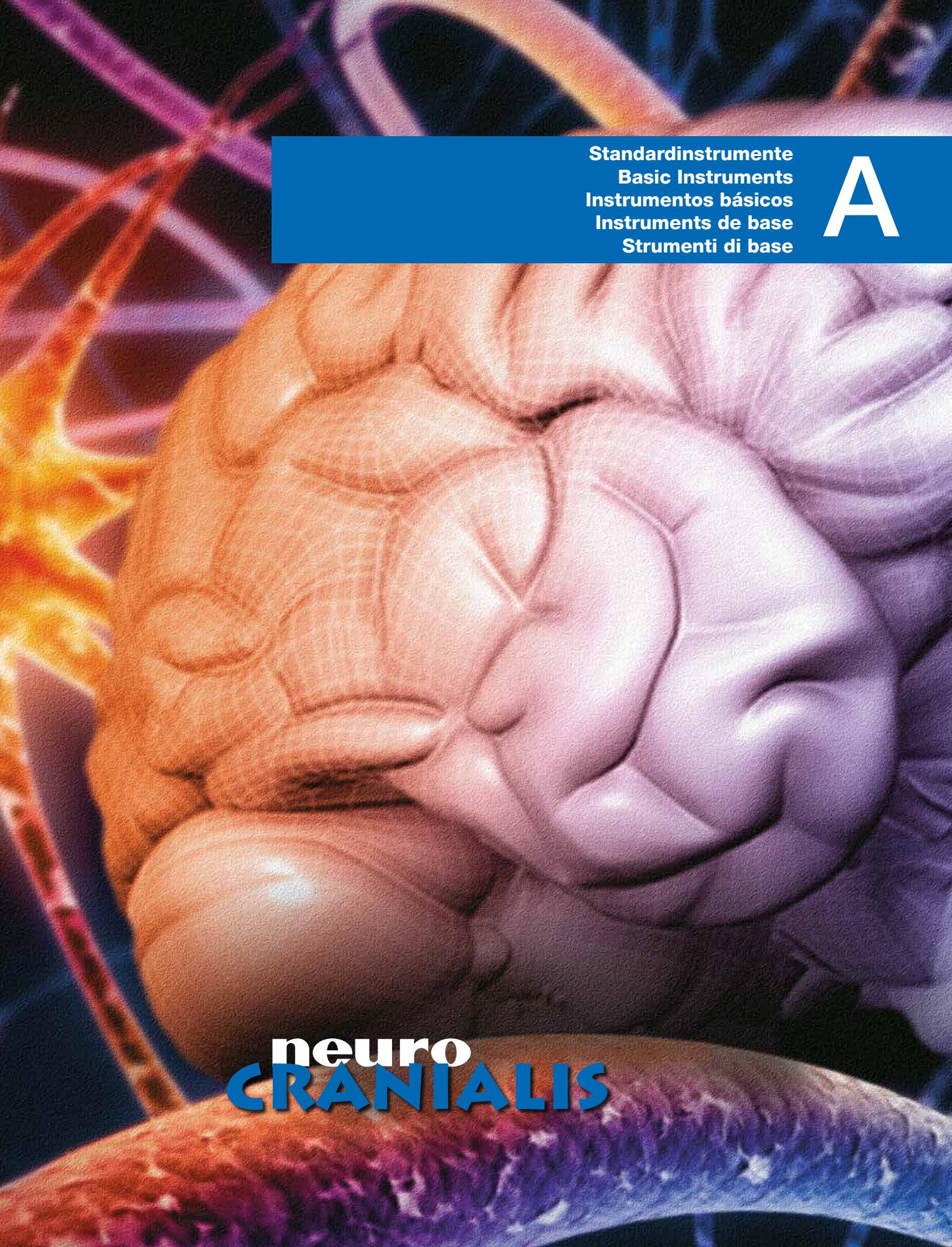
1:1

Darstellungsgröße
Image size
Tamaño de representación
Dimension de représentation
Dimensione di raffigurazione

Instrumentengröße
Instrument size
Tamaño del instrumento
Taille des instruments
Dimensione degli strumenti

14 cm – 5½"	14 cm – 5½"	
03.50.14	03.51.14	standard
203.50.14	203.51.14	supercut
213.50.14	213.51.14	blackline
03.50.64	03.51.64	"HM"
203.50.64	202.51.64	supercut plus
223.50.64	222.51.64	magiccut

Artikelnummer
Item number
Número de artículo
Référence
Codice



Standardinstrumente
Basic Instruments
Instrumentos básicos
Instruments de base
Strumenti di base

A

neuro
CRANIALIS

Standardinstrumente**Basic Instruments****Instrumentos básicos****Instruments de base****Strumenti di base**

A01	Skalpellklingen und Skalpellgriffe Scalpel blades and scalpel handles Hojas de bisturí y mangos de bisturí ¹ Lames de bistouris et manches pour bistouris Lame per bisturi e manici per bisturi	3
A02	Scheren Scissors Tijeras Ciseaux Forbici	7
A03	Pinzetten Forceps Pinzas Pinces Pinze	31
A04	Bipolare Pinzetten Bipolar forceps Pinzas bipolares Pince bipolaires Pinze bipolari	57
A05	Nadelhalter Needle holders Porta-agujas Porte-aiguilles Portaghi	65
A06	Saug- und Spülinstrumente Suction and irrigating instruments Instrumentos de aspiración y de lavado Instruments à aspiration et à irrigation Strumenti per aspirazione e lavaggio	79
A07	Klemmen Clamps Pinzas Clamps Pinze	85
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A11	Hohlmeißel- und Knochensplitterzangen Bone rongeurs and bone cutting forceps Pinzas-gubias y pinzas cortantes para huesos Pince-gouges et pinces coupantes à os Pinze sgorbie e pinze ossivore	119



Skalpellklingen und Skalpellgriffe
Scalpel Blades and Scalpel Handles
Hojas de bisturí y mangos de bisturí
Lames de bistouris et manches pour bistouris
Lame per bisturi e manici per bisturi

A01

SCALPELS



Verpackung für Skalpellklingen

Packing for scalpel blades

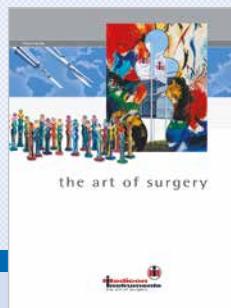
Paquete para hojas de bisturí

Emballage pour lames de bistouris

Confezione per lame per bisturi



450.00.03



Unser komplettes Skalpell-Programm finden Sie in unserem Hauptkatalog.

For our complete scalpel line, see our main catalogue.

El programa completo de bisturis se encuentra en nuestro catálogo general.

Vous trouverez notre gamme complète de bistouris dans notre catalogue général.

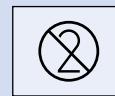
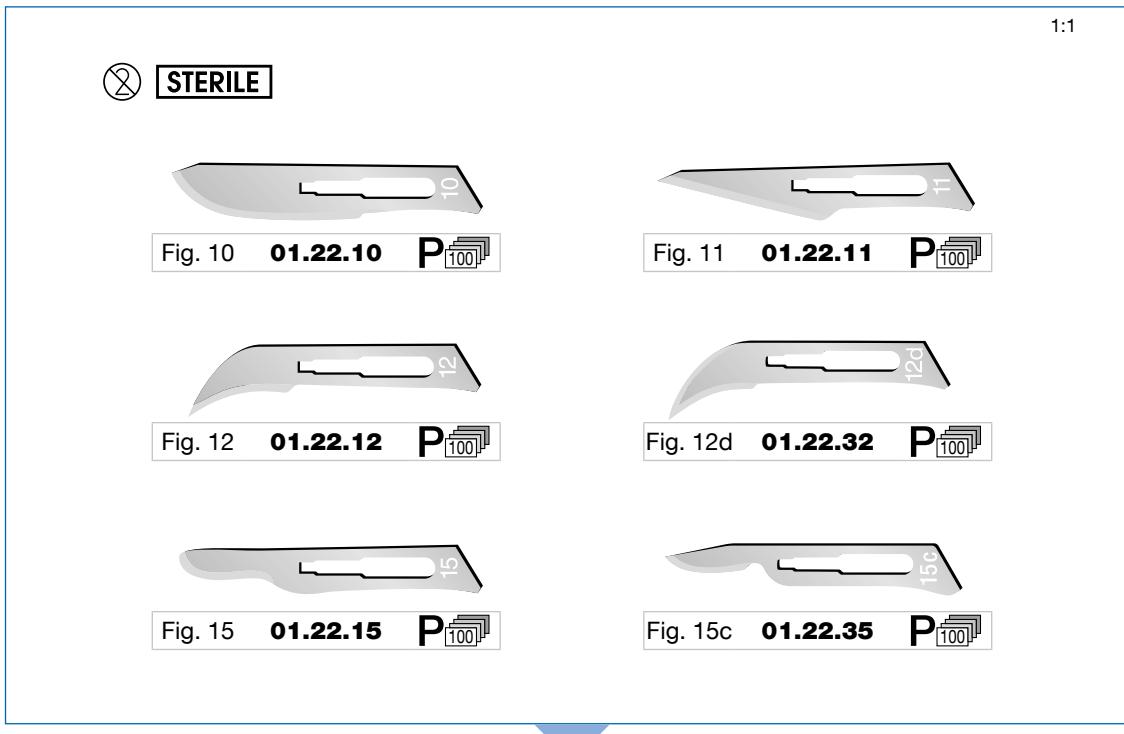
Trorrete il nostro programma completo di bisturi nel nostro catalogo generale.



A01

Skalpellklingen und Skalpellgriffe
Scalpel Blades and Scalpel Handles
Hojas de bisturí y mangos de bisturí
Lames de bistouris et manches pour bistouris
Lame per bisturi e manici per bisturi

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
cm | inch



Einmalprodukt
Single use product
Producto para un solo uso
Produit à usage unique
Prodotto monouso



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



Skalpellklingen und Skalpellgriffe
Scalpel Blades and Scalpel Handles
Hojas de bisturí y mangos de bisturí
Lames de bistouris et manches pour bistouris
Lame per bisturi e manici per bisturi

A01

1:1

STERILEFig. 20 **01.22.20** 100Fig. 21 **01.22.21** 100Fig. 25 **01.22.25** 10013,5 cm – 5 3/8" **01.28.04** no. 421 cm – 8 1/4" **01.28.14** no. 4L22,5 cm – 9" **01.28.45**

Einmalprodukt
Single use product
Producto para un solo uso
Produit à usage unique
Prodotto monouso



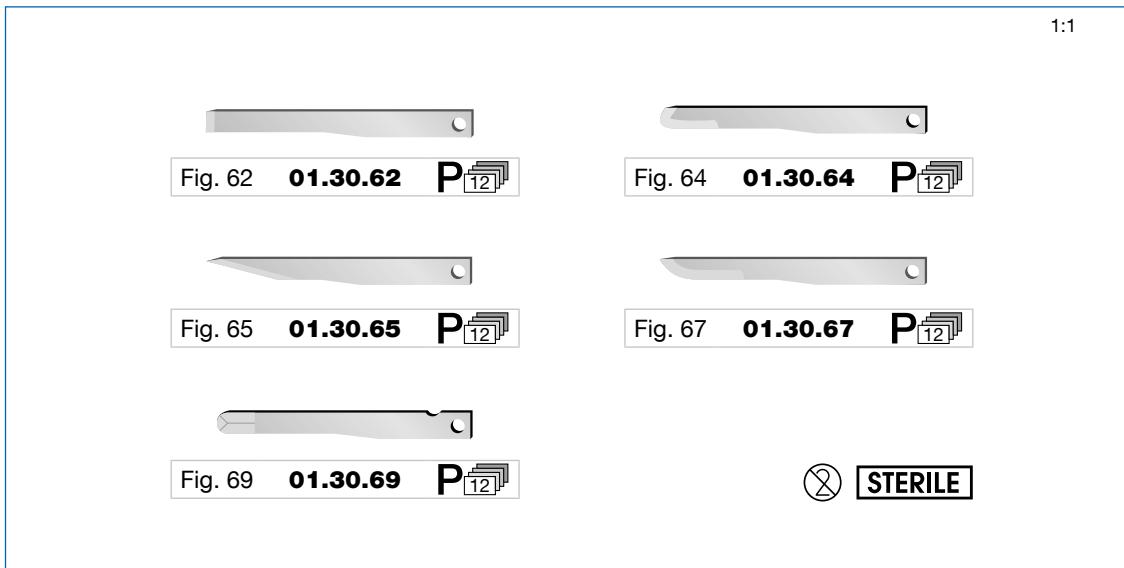
Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



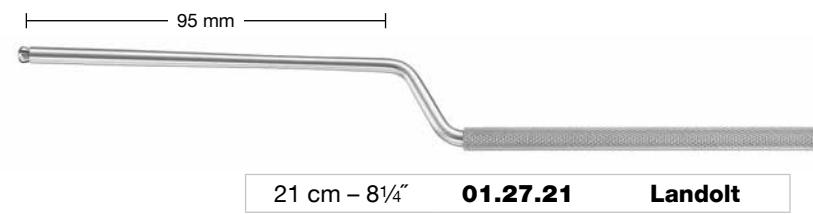
AO1

Skalpellklingen und Skalpellgriffe
Scalpel Blades and Scalpel Handles
Hojas de bisturí y mangos de bisturí
Lames de bistouris et manches pour bistouris
Lame per bisturi e manici per bisturi

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
cm/inch

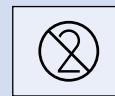


18 cm - 7 1/8" 01.30.37



140 mm

25 cm - 10" 01.27.25 Landolt



Einmalprodukt
Single use product
Producto para un solo uso
Produit à usage unique
Prodotto monouso



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



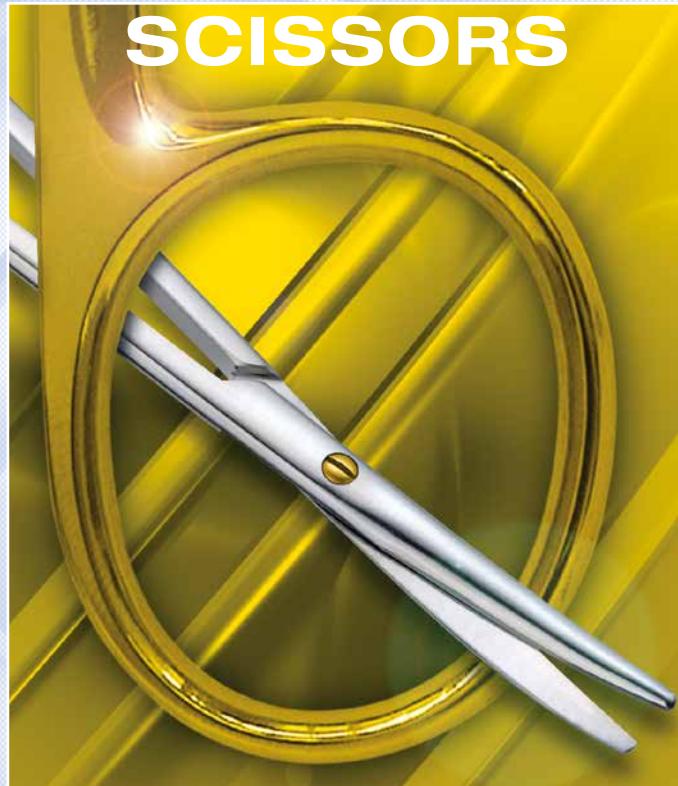
Von "standard" bis "magic cut" – alle Scheren werden von fachkundigen Chirurgiemechanikern hergestellt. Sie werden für dauerhafte Leistung sorgfältig gehärtet und qualitätsgerecht geprüft.

Starting with "standard" up to "magic cut" – all scissors are manufactured by experienced professionals. They are thoroughly hardened to ensure a long-lasting performance and are quality-checked.

Desde tijeras "standard" hasta "magic cut" – todas las tijeras son fabricadas por expertos competentes. Las tijeras son templadas e investigadas respecto la calidad para un durable rendimiento.

De "standard" à "magic cut" – tous les ciseaux sont fabriqués par des mécaniciens de chirurgie compétents. Ils sont trempés soigneusement afin d'obtenir une performance durable et passent un contrôle de qualité.

Dalla "standard" alla "magic cut" – tutte le forbici sono prodotte da meccanici chirurgici specializzati. Per una lunga durata sono temprate accuratamente e devono passare il controllo di qualità.



451.03.23

Unser komplettes Scheren-Programm finden Sie in unserem Sonderprospekt.
For our complete line of scissors, see our special brochure.
El programa completo de tijeras se encuentra en nuestro folleto especial.
Vous trouverez notre gamme complète de ciseaux dans notre brochure spéciale.
Troverete il nostro programma completo di forbici nel nostro depliant speciale.



AO2

Farbcodierung
Color Coding
Codificación de color
Codage de couleur
Codice colore

supercut

Goldene Schraube
Golden screw
Tornillo dorado
Vis dorée
Vite dorata



black line

Goldene Schraube und schwarze Ringgriffe
Golden screw and black rings
Tornillo dorado y anillos negros
Vis dorée et anneaux noirs
Vite dorata e anelli neri



"HM"

Goldene Ringgriffe
Golden rings
Anillos dorados
Anneaux dorés
Anelli dorati



supercut plus

Goldene Schraube und goldene Ringgriffe
Golden screw and golden rings
Tornillo dorado y anillos dorados
Vis dorée et anneaux dorés
Vite dorata e anelli dorati



magic cut

Keramikbeschichtung und goldene Schraube
Ceramic coating and golden screw
Recubrimiento de cerámica y tornillo dorado
Couche céramique et vis dorée
Rivestimento di ceramica e vite dorata





**Kennzeichen
Characteristics
Características
Caractéristiques
Caratteristiche**

A02

supercut	black line	"HM"	supercut plus	magic cut
		<		



AO2

Feine Schere und chirurgische Scheren
Delicate Scissors and Operating Scissors
Tijera fina y tijeras quirúrgicas
Ciseaux délicat et ciseaux chirurgicaux
Forbice delicata e forbici chirurgiche



Feine Schere
Delicate scissors
Tijera fina
Ciseaux délicat
Forbice delicata



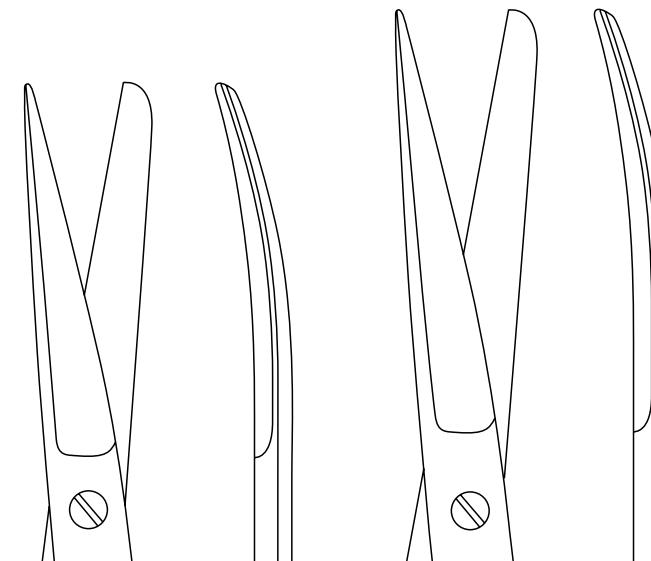
Chirurgische Scheren
Operating scissors
Tijeras quirúrgicas
Ciseaux chirurgicaux
Forbici chirurgiche



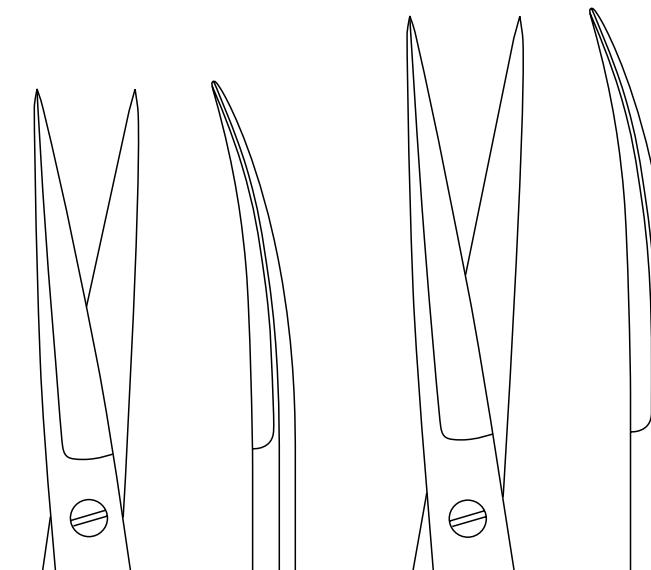
14,5 cm - 5 3/4"	14,5 cm - 5 3/4"	16,5 cm - 6 1/2"	16,5 cm - 6 1/2"	
03.02.14	03.03.14	03.02.16	03.03.16	standard
203.02.14	203.03.14	203.02.16	203.03.16	supercut
213.02.14	213.03.14			black line
03.02.64	03.03.64			"HM"



A02



14,5 cm – 5¾"	14,5 cm – 5¾"	16,5 cm – 6½"	16,5 cm – 6½"	
03.06.14	03.07.14	03.06.16	03.07.16	standard
203.06.14	203.07.14	203.06.16		supercut
213.06.14	213.07.14			black line
03.06.64	03.07.64			"HM"

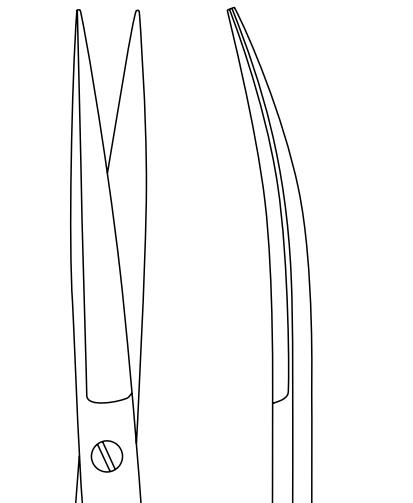


14,5 cm – 5¾"	14,5 cm – 5¾"	16,5 cm – 6½"	16,5 cm – 6½"	
03.04.14	03.05.14	03.04.16	03.05.16	standard
203.04.14	203.05.14			supercut
213.04.14	213.05.14			black line
03.04.64	03.05.64			"HM"

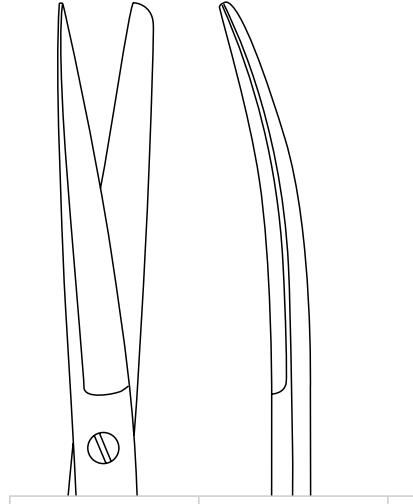


AO2

Chirurgische Scheren
Operating Scissors
Tijeras quirúrgicas
Ciseaux chirurgicaux
Forbici chirurgiche



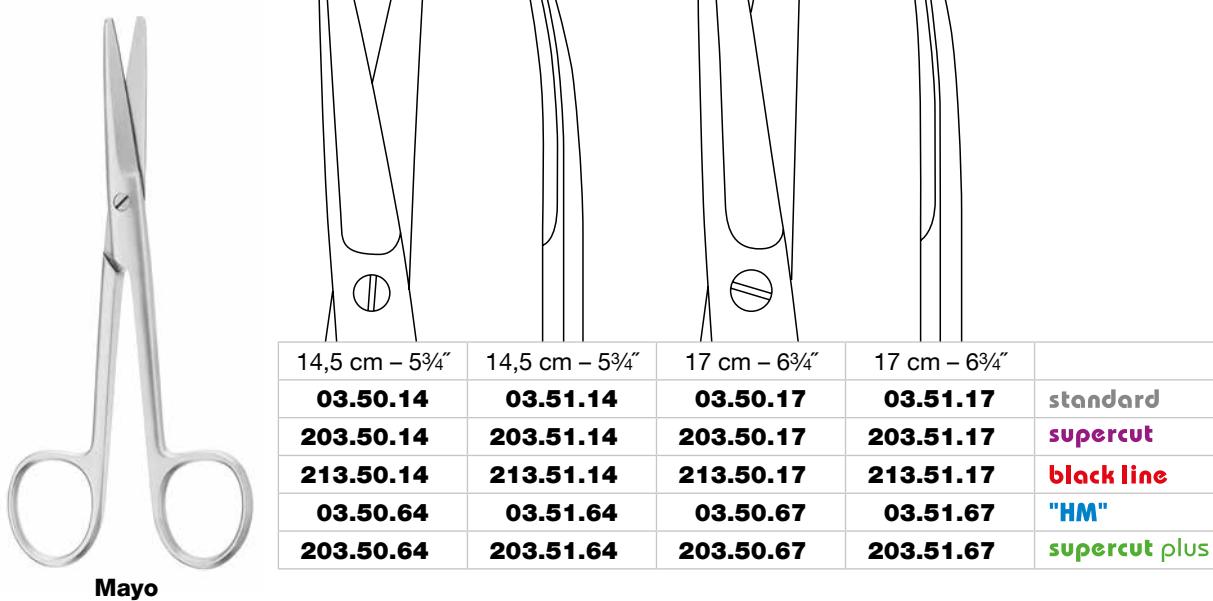
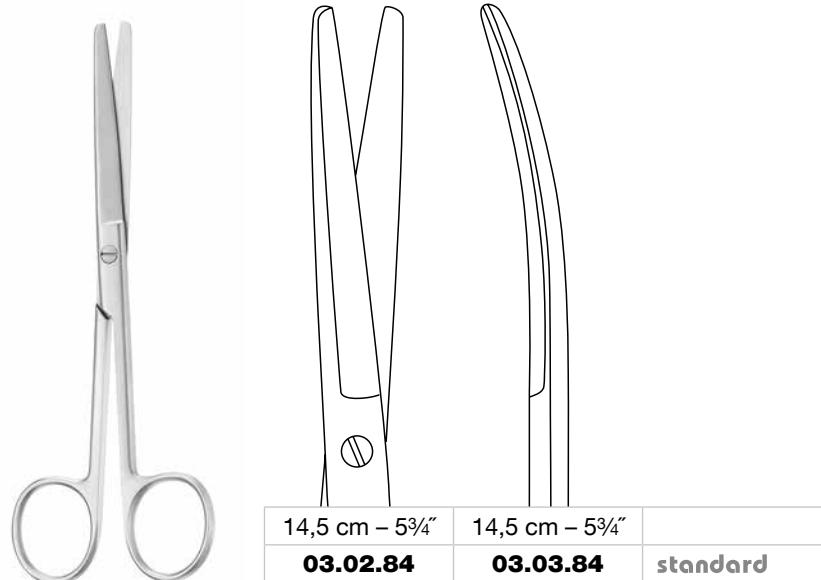
14,5 cm - 5¾"	14,5 cm - 5¾"	
03.04.84	03.05.84	standard



14,5 cm - 5¾"	14,5 cm - 5¾"	
03.06.84	03.07.84	standard



A02



Mayo



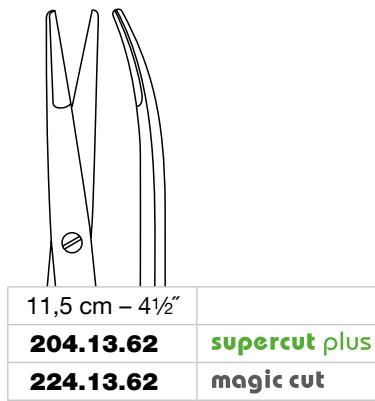
AO2

Feine Präparierscheren
Delicate Dissecting Scissors
Tijeras finas para disección
Ciseaux délicats pour dissection
Forbici delicate per dissezione

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4



Greenberg PAR



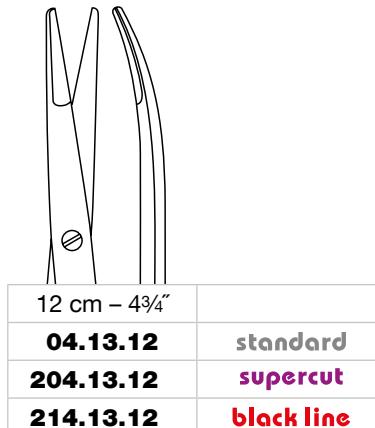
11,5 cm - 4½"	
204.13.62	supercut plus
224.13.62	magic cut

11
10
9
8
7
6
5
4
3
2
1

cm | inch



Shea



12 cm - 4¾"	
04.13.12	standard
204.13.12	supercut
214.13.12	black line

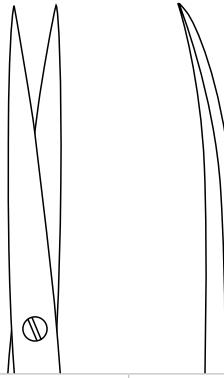


Feine Präparierscheren
Delicate Dissecting Scissors
Tijeras finas para disección
Ciseaux délicats pour dissection
Forbici delicate per dissezione

A02



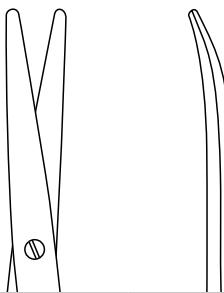
“slim”



14 cm – 5½"	14 cm – 5½"	
04.24.14	04.25.14	standard
204.24.14	204.25.14	supercut
04.24.64	04.25.64	"HM"
204.24.64	204.25.64	supercut plus



Baby-Metzenbaum



11,5 cm – 4½"	11,5 cm – 4½"	
04.32.11	04.33.11	standard
204.32.11	204.33.11	supercut
214.32.11	214.33.11	black line
04.32.61	04.33.61	"HM"
204.32.61	204.33.61	supercut plus

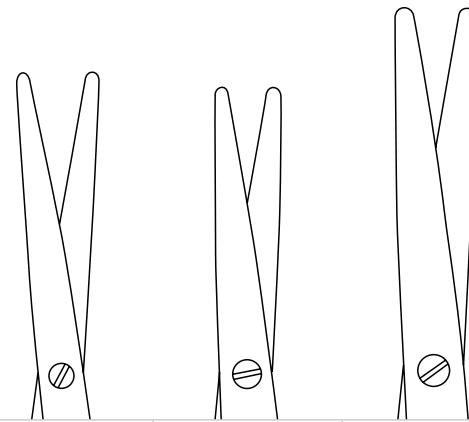


AO2

Präparierscheren
Dissecting Scissors
Tijeras para disección
Ciseaux pour dissection
Forbici per dissezione



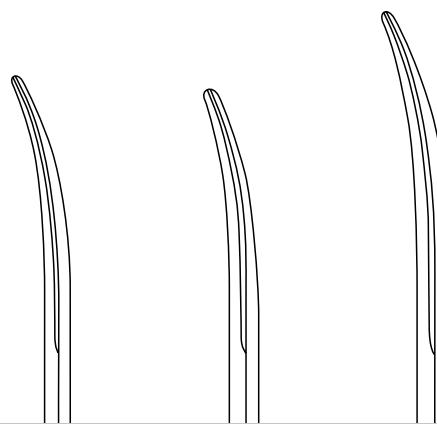
Metzenbaum



14 cm - 5½"	18 cm - 7⅛"	20 cm - 8"	
04.32.14	04.32.18	04.32.20	standard
204.32.14	204.32.18	204.32.20	supercut
214.32.14	214.32.18	214.32.20	black line
04.32.64	04.32.68	04.32.70	"HM"
204.32.64	204.32.68	204.32.70	supercut plus



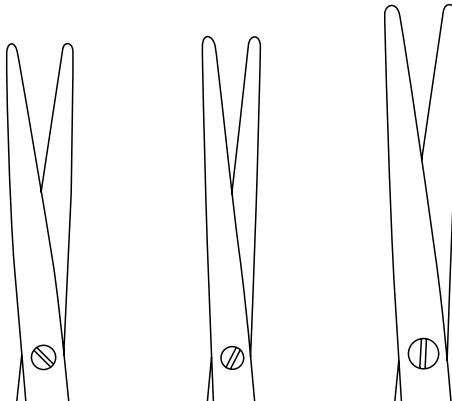
Metzenbaum



14 cm - 5½"	18 cm - 7⅛"	20 cm - 8"	
04.33.14	04.33.18	04.33.20	standard
204.33.14	204.33.18	204.33.20	supercut
214.33.14	214.33.18	214.33.20	black line
04.33.64	04.33.68	04.33.70	"HM"
204.33.64	204.33.68	204.33.70	supercut plus



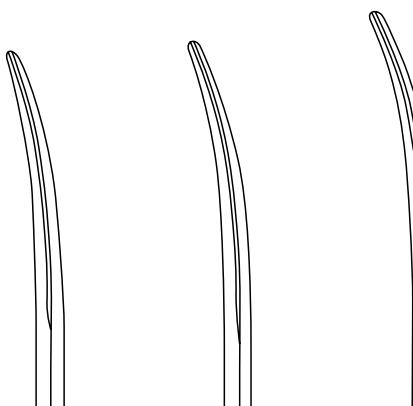
Metzenbaum-slim



14 cm - 5½"	18 cm - 7⅛"	20 cm - 8"	
04.34.14	04.34.18	04.34.20	standard
204.34.14	204.34.18	204.34.20	supercut
214.34.14	214.34.18	214.34.20	black line
04.34.64	04.34.68	04.34.70	"HM"
204.34.64	204.34.68	204.34.70	supercut plus



Metzenbaum-slim



14 cm - 5½"	18 cm - 7⅛"	20 cm - 8"	
04.35.14	04.35.18	04.35.20	standard
204.35.14	204.35.18	204.35.20	supercut
214.35.14	214.35.18	214.35.20	black line
04.35.64	04.35.68	04.35.70	"HM"
204.35.64	204.35.68	204.35.70	supercut plus



AO2

Präparierscheren
Dissecting Scissors
Tijeras para disección
Ciseaux pour dissection
Forbici per dissezione



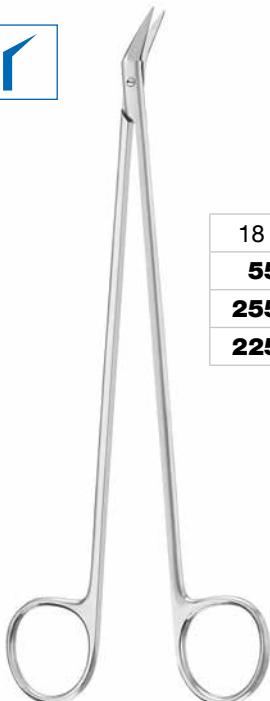
Reynolds (Jameson)

12 cm - 4¾"	14 cm - 5½"	16 cm - 6¼"	18 cm - 7⅛"	standard
04.66.12	04.66.14	04.66.16	04.66.18	



Reynolds (Jameson)

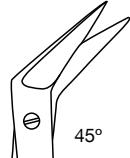
12 cm - 4¾"	14 cm - 5½"	16 cm - 6¼"	18 cm - 7⅛"	
04.67.12	04.67.14	04.67.16	04.67.18	standard
204.67.12		204.67.16	204.67.18	supercut
214.67.12		214.67.16	214.67.18	black line
		224.67.66	224.67.68	magic cut



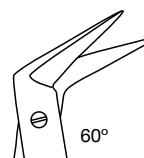
Hegemann-Diethrich



25°

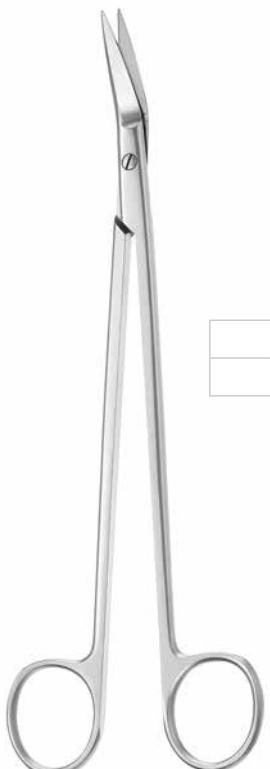


45°



60°

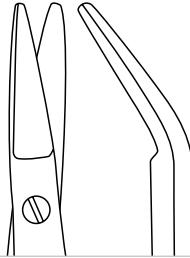
18 cm - 7 1/8"	18 cm - 7 1/8"	18 cm - 7 1/8"	
55.15.32	55.15.34	55.15.36	standard
255.15.32	255.15.34	255.15.36	supercut
225.15.32	225.15.34	225.15.36	magic cut



Potts-Smith



19 cm - 7 1/2"



19 cm - 7 1/2"

19 cm - 7 1/2"	19 cm - 7 1/2"	
55.15.50	55.15.51	standard



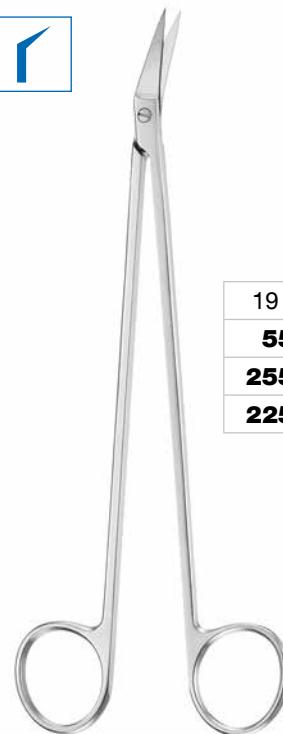
seitwärts gewinkelt
angled to side
acodadas lateralmente
coudés latéralement
angolata lateralmente



AO2

Gefäßscheren und Mikro-Scheren
Vascular Scissors and Micro Scissors
Tijeras vasculares y micro tijeras
Ciseaux vasculaires et micro ciseaux
Forbici vascolari e micro forbici

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch



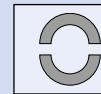
Potts-Smith

19 cm - 7½"	19 cm - 7½"	19 cm - 7½"	
55.15.42	55.15.44	55.15.46	standard
255.15.42	255.15.44	255.15.46	supercut
225.15.42	225.15.44	225.15.46	magic cut



VANNAS

15 cm - 6"	15 cm - 6"	15 cm - 6"	15 cm - 6"	
05.15.74	05.15.75	05.15.76	05.15.77	standard
205.15.74				supercut



Rundgriff
Round handle
Mango redondo
Manche rond
Mánico rotondo



seitwärts gewinkelt
angled to side
acodadas lateralmente
coudés latéralement
angolata lateralmente



Vannas-Schneiden
Vannas-type cutting edges
Hojas según Vannas
Lames selon Vannas
Lame secondo Vannas



Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici

A02



15 cm - 6"	15 cm - 6"	18 cm - 7 1/8"	18 cm - 7 1/8"	
05.15.70	05.15.71	05.18.70	05.18.71	standard
		205.18.70	205.18.71	supercut

15 cm - 6"	15 cm - 6"	18 cm - 7 1/8"	18 cm - 7 1/8"	
05.15.72	05.15.73	05.18.72	05.18.73	standard

15 cm - 6"	15 cm - 6"	18 cm - 7 1/8"	18 cm - 7 1/8"	
05.15.81	05.15.83	05.18.81	05.18.83	standard



Instrumente mit blau eloxierten Leichtmetall-Griffen für höchste Präzision und Arbeitskomfort.

Instruments with blue anodized light metal handles for maximum precision and working convenience.

Instrumentos con mangos de metal ligero anodizados en azul para la precisión y el confort de trabajo máximo.

Instruments avec manches en métal léger anodisés en bleu pour un maximum de précision et de confort à l'utilisation.

Strumenti con manici di metallo leggero anodizzati blu per una precisione massima e conforto lavorativo.



Eine Schneide gezahnt
 One blade serrated
 Una hoja dentada
 Une lame dentelée
 Una lama dentellata



spitz
 sharp
 aguda
 pointu
 acuta



stumpf
 blunt
 roma
 mousse
 smussa



AO2

Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch

Ti

8 mm

15 cm - 6" 15 cm - 6"
05.16.74 **05.16.75**

18 cm - 7 1/8" 18 cm - 7 1/8"
05.18.74 **05.18.75**

21 cm - 8 1/4" 21 cm - 8 1/4"
05.21.74 **05.21.75**

Ti

8 mm

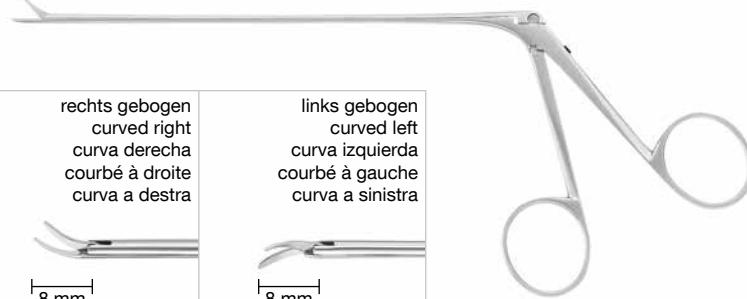
15 cm - 6" 15 cm - 6"
05.16.68 **05.16.69**

18 cm - 7 1/8" 18 cm - 7 1/8"
05.18.68 **05.18.69**

21 cm - 8 1/4" 21 cm - 8 1/4"
05.21.68 **05.21.69**

Tumorscheren
Tumor scissors
Tijeras para tumores
Ciseaux pour tumeur
Forbici per tumori

a



stumpf
blunt
roma
mousse
smussa



Rundgriff
Round handle
Mango redondo
Manche rond
Manico rotondo



Titan
Titanium
Titano
Titane
Titano



Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici

A02

VANNAS



12 cm - 4 $\frac{3}{4}$ "
05.18.84



12 cm - 4 $\frac{3}{4}$ "
05.18.85



12 cm - 4 $\frac{3}{4}$ "
05.18.86



12 cm - 4 $\frac{3}{4}$ "
05.18.87



12 cm - 4 $\frac{3}{4}$ "
05.18.89



VANNAS



16 cm - 6 $\frac{1}{4}$ "
05.18.92



16 cm - 6 $\frac{1}{4}$ "
05.18.93



16 cm - 6 $\frac{1}{4}$ "
05.18.94



16 cm - 6 $\frac{1}{4}$ "
05.18.95



13 cm - 5 $\frac{1}{8}$ "
05.18.90

Biemer



spitz
sharp
aguda
pointu
acuta



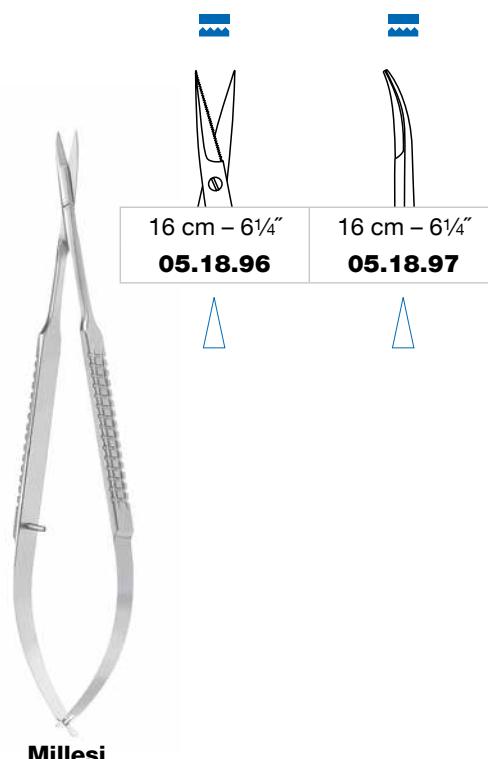
Vannas-Schneiden
Vannas-type cutting edges
Hojas según Vannas
Lames selon Vannas
Lame secondo Vannas



AO2

Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



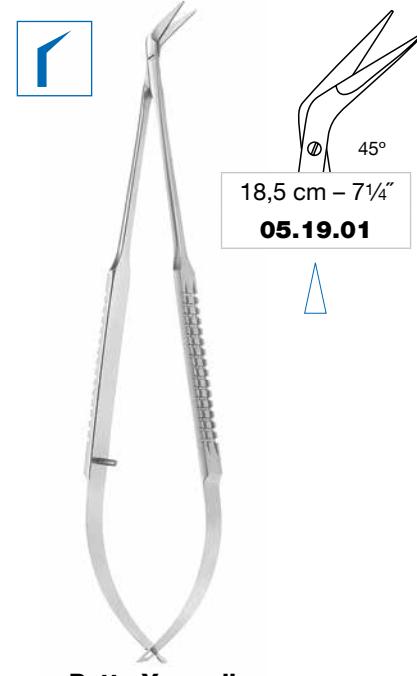
Millesi



Yasargil



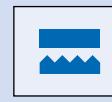
Jacobson



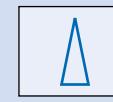
Potts-Yasargil



seitwärts gewinkelt
angled to side
acodadas lateralmente
coudés latéralement
angolata lateralmente



Eine Schneide gezahnt
One blade serrated
Una hoja dentada
Une lame dentelée
Una lama dentellata



spitz
sharp
aguda
pointu
acuta



Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici

A02



23 cm - 9"
05.19.02



18,5 cm - 7 1/4"
05.19.10



18 cm - 7 1/8"
05.19.25
225.19.25



18 cm - 7 1/8"
05.19.45
225.19.45



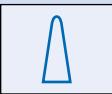
18 cm - 7 1/8"
05.19.60
225.19.60
 "HM"
 magic cut



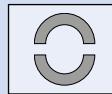
seitwärts gewinkelt
angled to side
acodadas lateralmente
coudés latéralement
angolata lateralmente



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



Rundgriff
Round handle
Mango redondo
Manche rond
Manico rotondo



AO2

Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



Yasargil



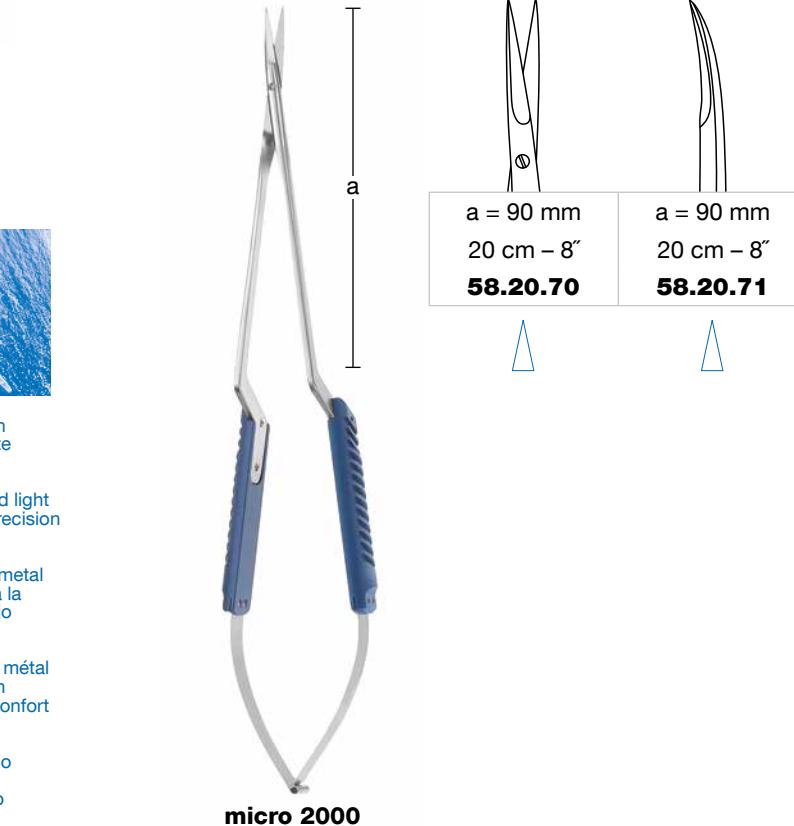
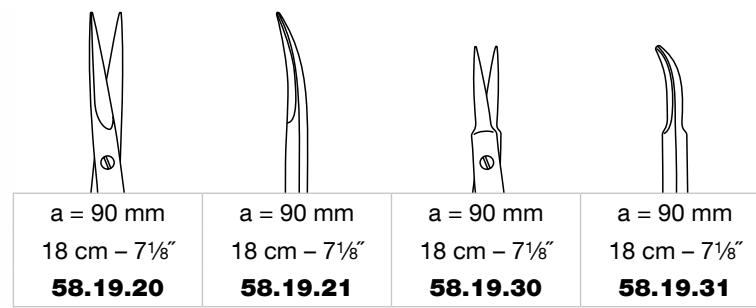
Instrumente mit blau eloxierten
Leichtmetall-Griffen für höchste
Präzision und Arbeitskomfort.

Instruments with blue anodized light
metal handles for maximum precision
and working convenience.

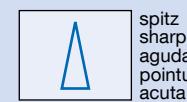
Instrumentos con mangos de metal
ligero anodizados en azul para la
precisión y el confort de trabajo
máximo.

Instruments avec manches en métal
léger anodisés en bleu pour un
maximum de précision et de confort
à l'utilisation.

Strumenti con manici di metallo
leggero anodizzati blu per una
precisione massima e conforto
lavorativo.



micro 2000

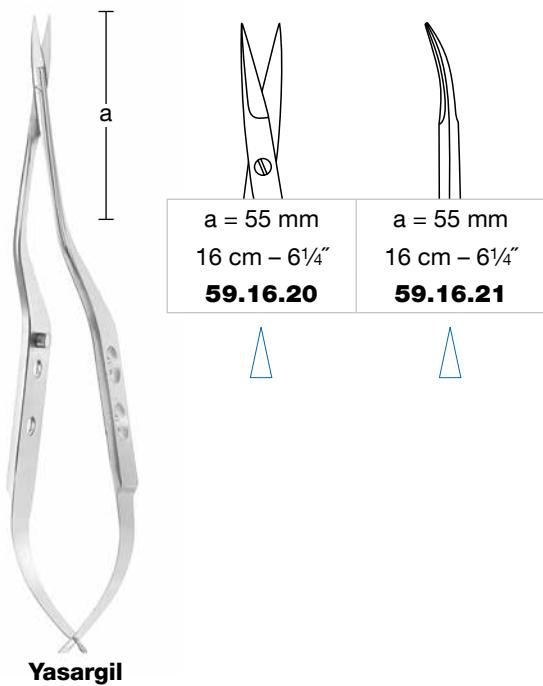


spitz
sharp
aguda
pointu
acuta

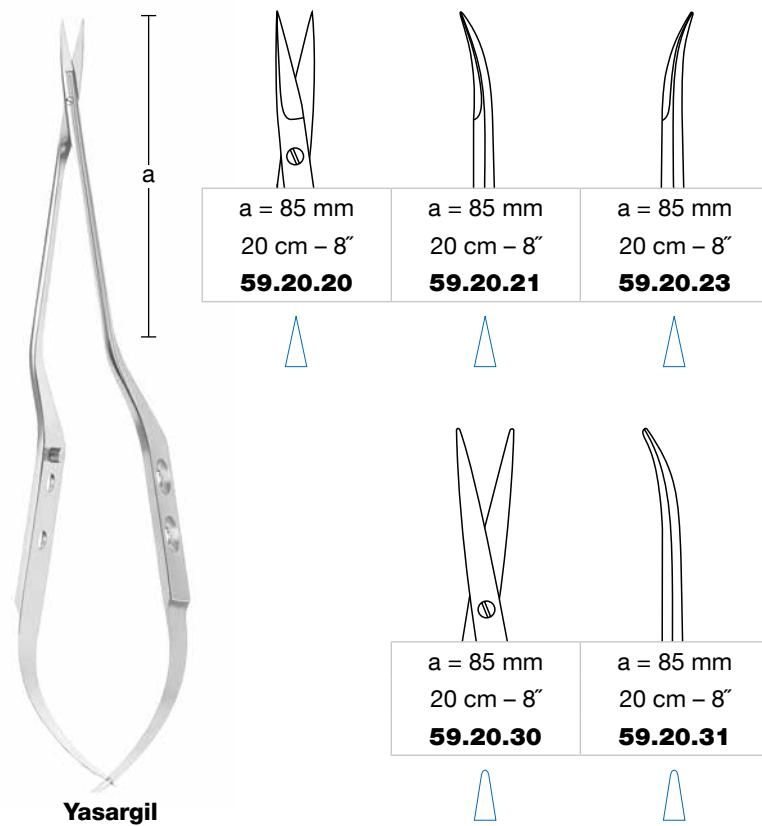


Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici

A02



Yasargil



Yasargil



spitz
sharp
aguada
pointu
acuta



stumpf
blunt
roma
mousse
smussa

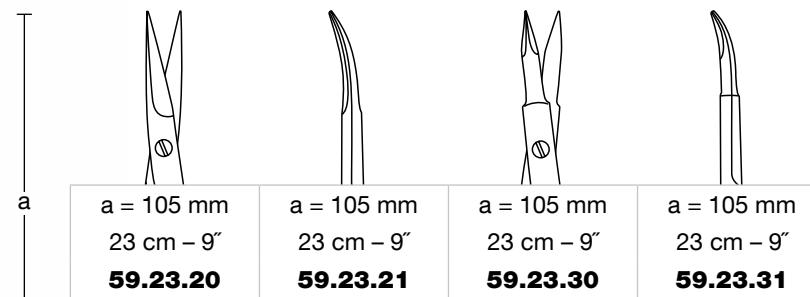


A02

Mikro-Scheren
Micro Scissors
Micro tijeras
Micro ciseaux
Micro forbici



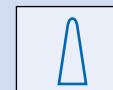
Yasargil



Yasargi



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



Vannas-Schneiden
Vannas-type cutting edges
Hojas según Vannas
Lames selon Vannas
Lame secondo Vannas



**Duraschere und Trigeminusscheren
Dura Scissors and Trigeminal Scissors
Tijera para duramadre y tijeras para trigémino
Ciseaux pour dure-mère et ciseaux pour trijumeau
Forbice per dura madre e forbici per trigemino**

A02

Duraschere
Dura scissors
Tijera para duramadre
Ciseaux pour dure-mère
Forbice per dura madre

Trigeminusschere
Trigeminal scissors
Tijera para trigémino
Ciseaux pour trijumeau
Forbice per trigemino

**Schmieden (Taylor)**

16 cm – 6 1/4"
57.25.16



20 cm – 8"
57.25.20

Strully

Trigeminusschere
Trigeminal scissors
Tijera para trigémino
Ciseaux pour trijumeau
Forbice per trigemino

a



18 mm

$a = 12,5 \text{ cm} - 5"$
57.25.70

**Olivecrona**

seitwärts gewinkelt
angled to side
acodadas lateralmente
coudés latéralement
angolata lateralmente



A02

Ligaturscheren, Draht- und Mesh-Plattenscheren
Ligature Scissors, Wire and Mesh Plate Cutting Scissors
Tijeras para ligaduras, tijeras para cortar alambre y placas Mesh
Ciseaux à ligature, ciseaux coupe-fil et coupe-plaques Mesh
Forbici per legature, forbici per fili d'acciaio e placche Mesh

Ligaturscheren
Ligature scissors
Tijeras para ligaduras
Ciseaux à ligature
Forbici per legature



21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch

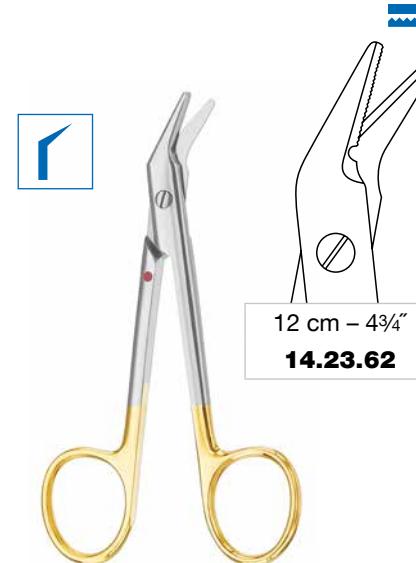
14,5 cm - 5 3/4" 14.06.84
18 cm - 7 1/8" 14.06.88
23 cm - 9" 14.06.93

mit Mikrozahnung und Hartmetallschneiden
with micro serration and tungsten carbide edges
con micro dientes y hojas de carburo tungsteno
avec denture micro et lames en carbure tungstène
con dentellatura micro e lame in carburo di tungsteno

Draht- und Mesh-Plattenscheren
Wire and Mesh plate cutting scissors
Tijeras para cortar alambre y placas Mesh
Ciseaux coupe-fil et coupe-plaques Mesh
Forbici per fili d'acciaio e placche Mesh



12 cm - 4 3/4"
14.23.12



12 cm - 4 3/4"
14.23.62

max. Ø 0,3 mm	Harte Drähte Hard wires Alambres duros Fils durs Fili duri
max. Ø 0,8 mm	Weiche Drähte Soft wires Alambres blandos Fils mous Fili dolci

"HM"

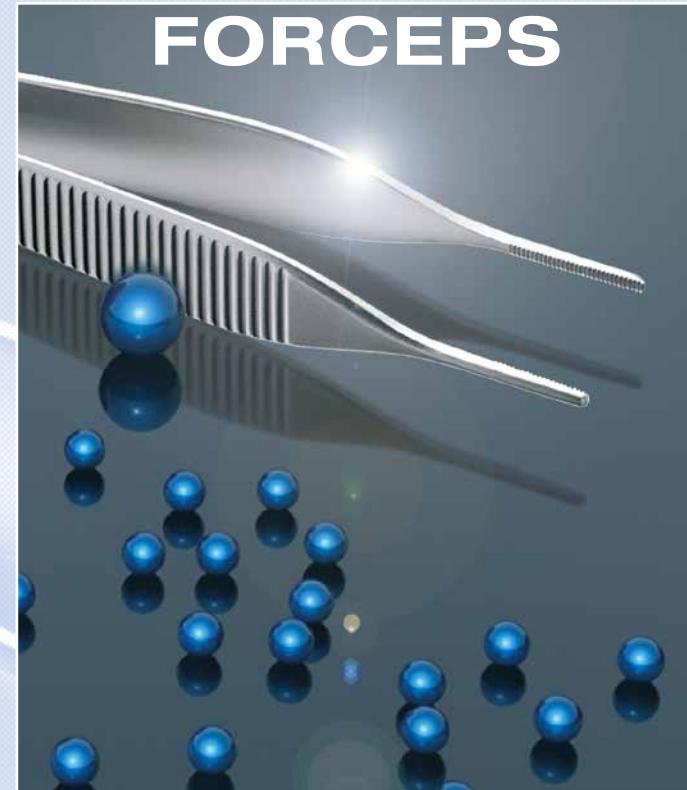
Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno



seitwärts gewinkelt
angled to side
acodadas lateralmente
coudés latéralement
angolata lateralmente



Eine Schneide gezahnt
One blade serrated
Una hoja dentada
Une lame dentelée
Una lama dentellata





A03

Feine Pinzetten, anatomisch und chirurgisch
Delicate Forceps, dressing and tissue
Pinzas finas, anatómicas y quirúrgicas
Pince délicates, anatomiques et chirurgicales
Pinze delicate, anatomiche e chirurgiche

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
cm | inch



12 cm - 4 3/4"
06.20.12

Adson



12 cm - 4 3/4"
06.21.12

Adson



12 cm - 4 3/4"
06.20.62

Adson "HM"



12 cm - 4 3/4"
06.21.62



15 cm - 6"
06.20.65

Adson "HM"



15 cm - 6"
06.21.65

12 cm - 4 3/4"
06.22.12

Micro-Adson



15 cm - 6"
06.22.15

Micro-Adson



15 cm - 6"
06.23.15

12 cm - 4 3/4"
06.23.12

"HM"

Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno

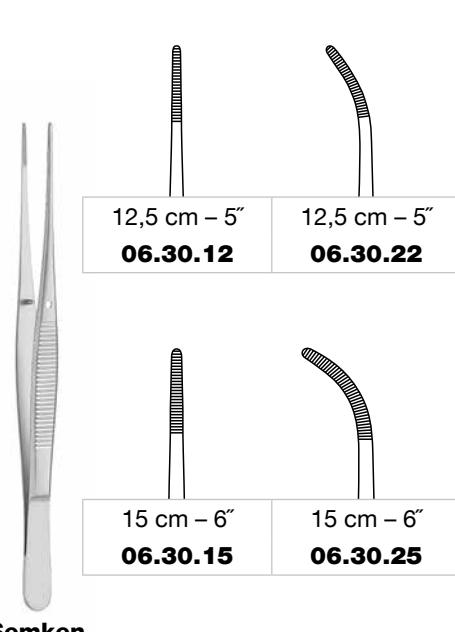


Vergrößerung
Magnification
Engrandecimiento
Agrandissement
Ingrandimento

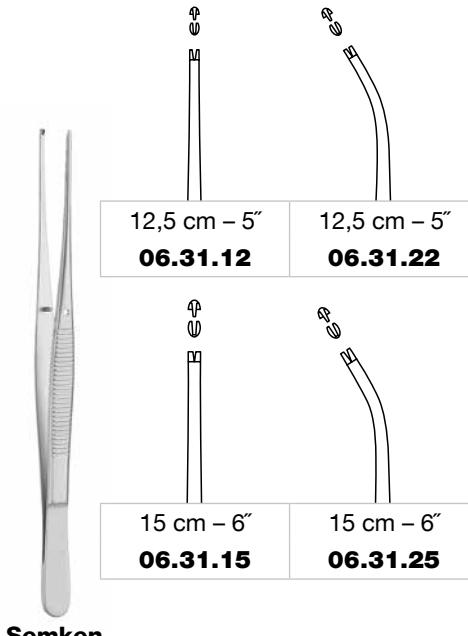


Feine Pinzetten, anatomisch und chirurgisch
Delicate Forceps, dressing and tissue
Pinzas finas, anatómicas y quirúrgicas
Pince délicates, anatomiques et chirurgicales
Pinze delicate, anatomiche e chirurgiche

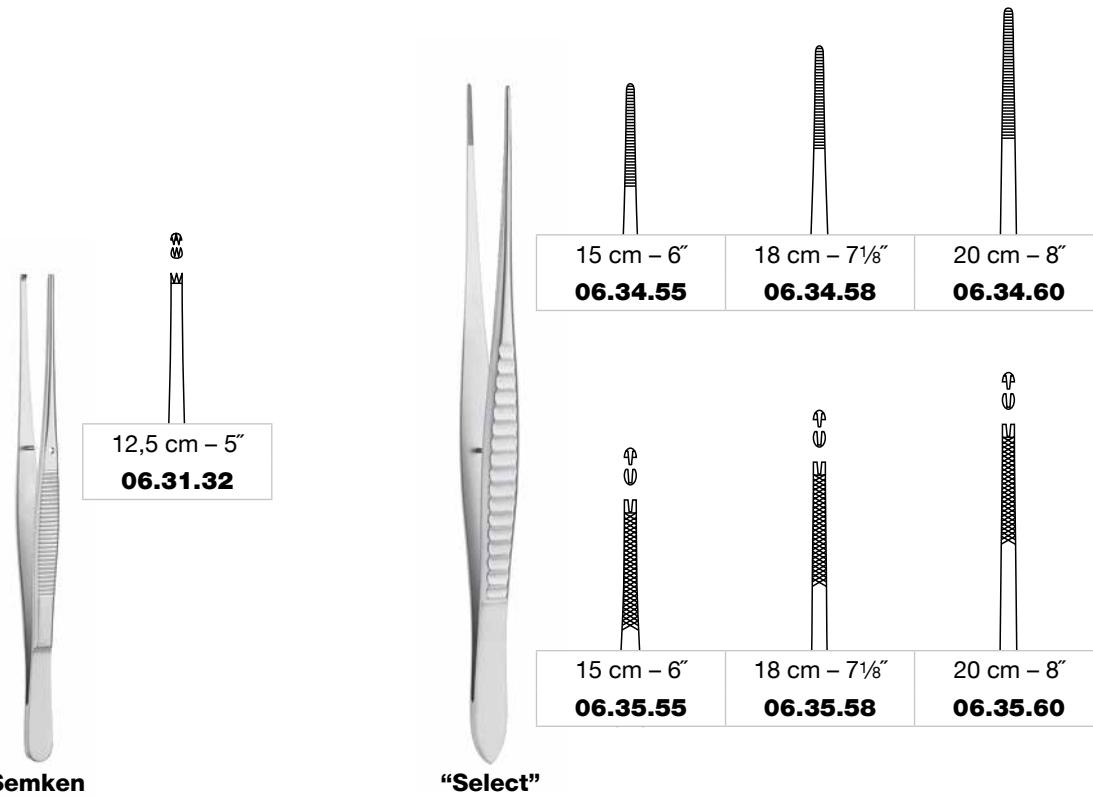
A03



Semken



Semken



Semken

"Select"



AO3

Anatomische und chirurgische Pinzetten
Dressing and Tissue Forceps
Pinzas anatómicas y quirúrgicas
Pinces anatomiques et chirurgicales
Pinze anatomiche e chirurgiche



McIndoe

15 cm - 6"
06.40.15



Gillies

15 cm - 6"
06.40.85



Potts-Smith

18 cm - 7 1/8"
06.46.18

21 cm - 8 1/4"
06.46.20

25 cm - 10"
06.46.25

18 cm - 7 1/8"
06.48.18

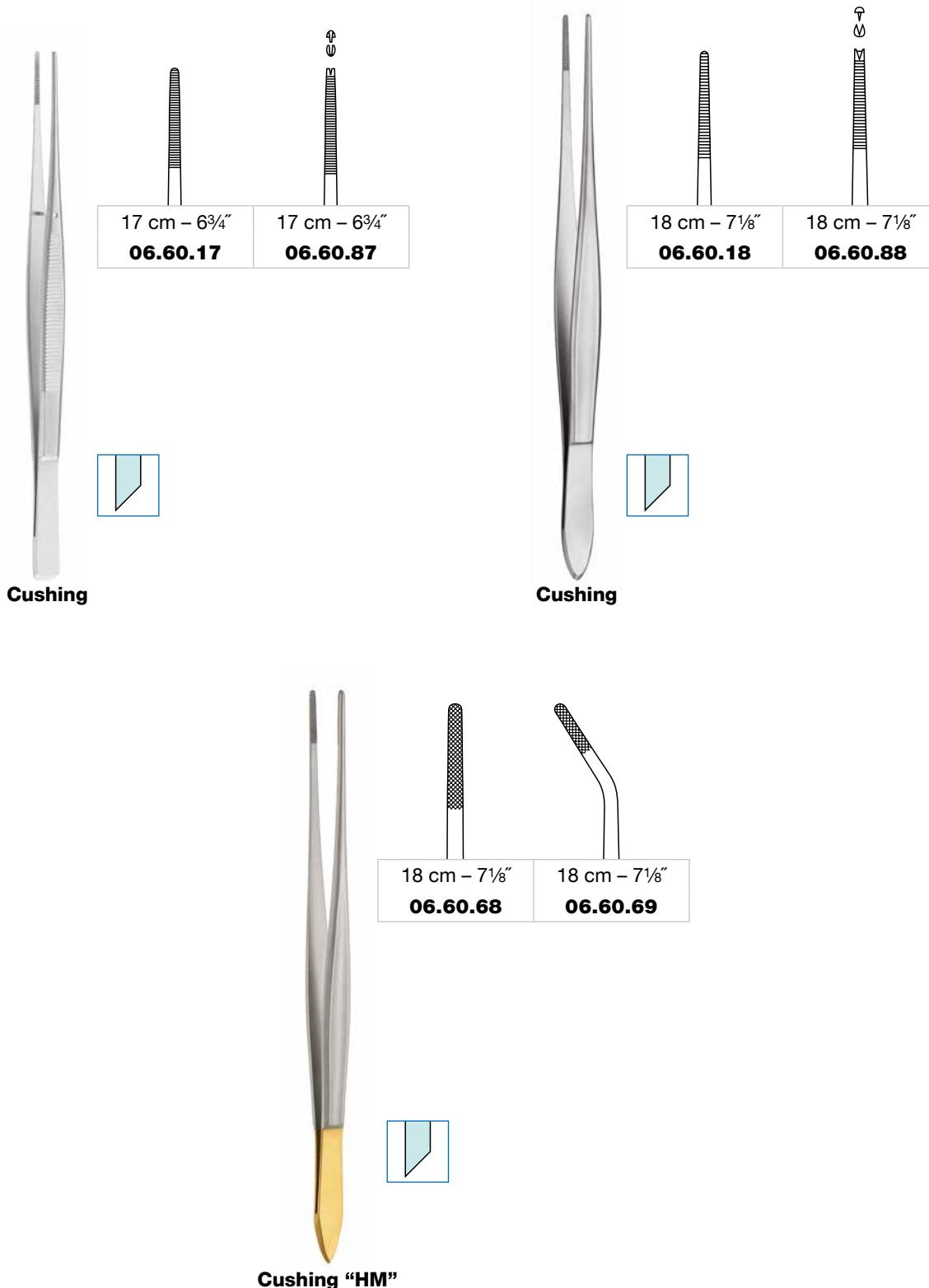
21 cm - 8 1/4"
06.48.20

25 cm - 10"
06.48.25

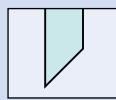


Anatomische und chirurgische Pinzetten
Dressing and Tissue Forceps
Pinzas anatómicas y quirúrgicas
Pinces anatomiques et chirurgicales
Pinze anatomiche e chirurgiche

A03

**"HM"**

Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno



mit Dissektorende
with dissector end
con extremo sirviendo de legra
avec extrémité dissecateur
con la parte finale a forma di dissettore



AO3

Atraumatische Gefäßpinzetten
Atraumatic Vascular Forceps
Pinzas vasculares atraumáticas
Pince vasculaires atraumatiques
Pinze vascolari atraumatiche



DeBakey "AT"



1,5 mm

1,5 mm

1,5 mm

1,5 mm

15 cm - 6"
06.50.1520 cm - 8"
06.50.1924 cm - 9½"
06.50.2430 cm - 11¾"
06.50.30

2,0 mm

2,0 mm

2,0 mm

2,0 mm

15 cm - 6"
06.52.1520 cm - 8"
06.52.1924 cm - 9½"
06.52.2430 cm - 11¾"
06.52.30

DeBakey "AT"



2,8 mm

2,8 mm

2,8 mm

2,8 mm

15 cm - 6"
06.54.1520 cm - 8"
06.54.1924 cm - 9½"
06.54.2430 cm - 11¾"
06.54.30

3,5 mm

3,5 mm

3,5 mm

3,5 mm

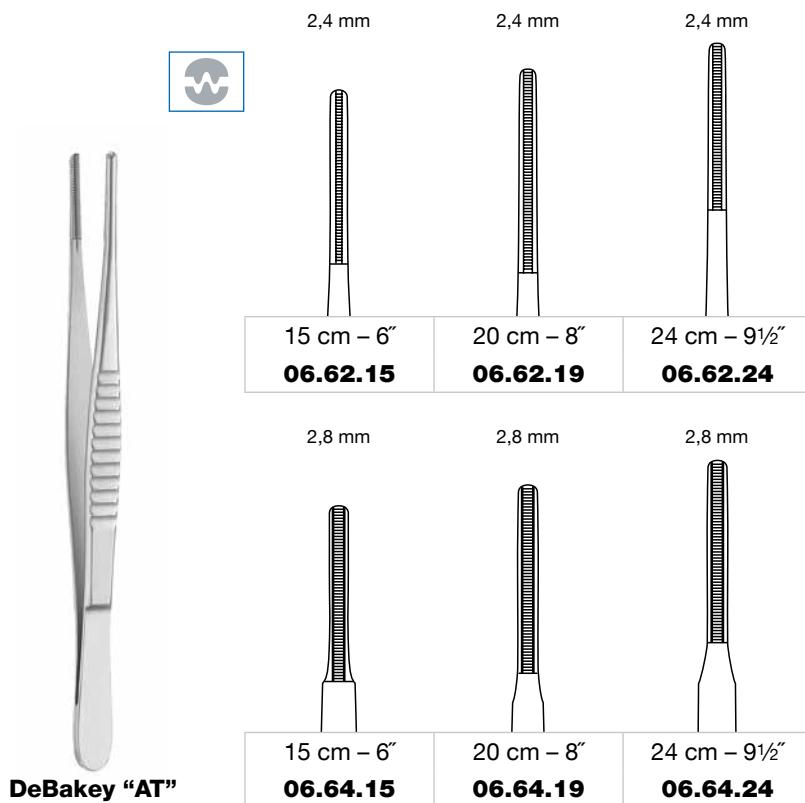
15 cm - 6"
06.55.1520 cm - 8"
06.55.1924 cm - 9½"
06.55.2430 cm - 11¾"
06.55.30

Atraumatische Riefung
Atraumatic serration
Estrías atraumáticas
Striure atraumatique
Zigrinatura atraumatica



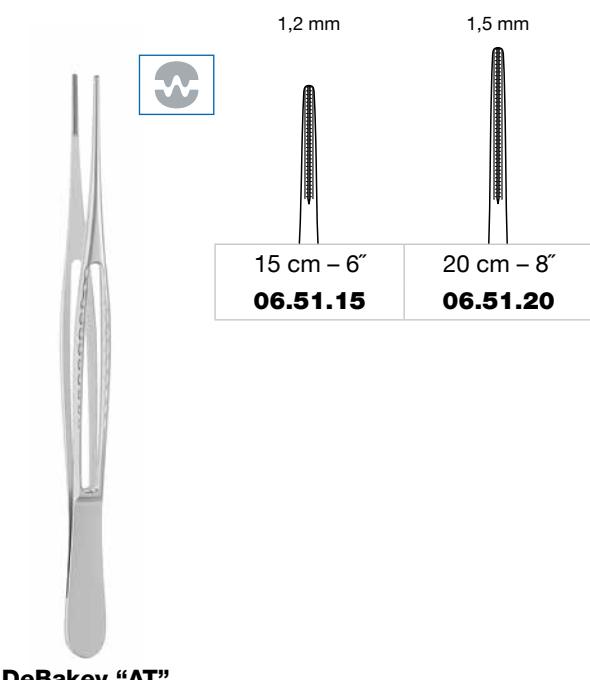
Atraumatische Gefäßpinzetten
Atraumatic Vascular Forceps
Pinzas vasculares atraumáticas
Pinces vasculaires atraumatiques
Pinze vascolari atraumatiche

A03



Atraumatische Gefäßpinzetten
Atraumatic vascular forceps
Pinzas vasculares atraumáticas
Pinces vasculaires atraumatiques
Pinze vascolari atraumatiche

extrem leicht
extremely light
especialmente ligera
extrêmement légère
estremamente leggera



Atraumatische Riefung
Atraumatic serration
Estriás atraumáticas
Striure atraumatique
Zigrinatura atraumatica



AO3

Atraumatische Pinzetten
Atraumatic Forceps
Pinzas atraumáticas
Pinces atraumatiques
Pinze atraumatiche



Titanium (Ti) icon	1,0 mm	1,0 mm	1,0 mm
Wavy (AT) icon	15 cm - 6"	20 cm - 8"	24 cm - 9½"
	06.70.15	06.70.20	06.70.24
DeBakey "AT" icon	1,5 mm	1,5 mm	1,5 mm
	15 cm - 6"	20 cm - 8"	24 cm - 9½"
	06.72.15	06.72.20	06.72.24
	2,0 mm	2,0 mm	2,0 mm
	15 cm - 6"	20 cm - 8"	24 cm - 9½"
	06.74.15	06.74.20	06.74.24



Titan
Titanium
Titano
Titane
Titanio



Atraumatische Riefung
Atraumatic serration
Estrías atraumáticas
Striure atraumatique
Zigrinatura atraumatica



Atraumatische Pinzetten und Mikro-Pinzetten

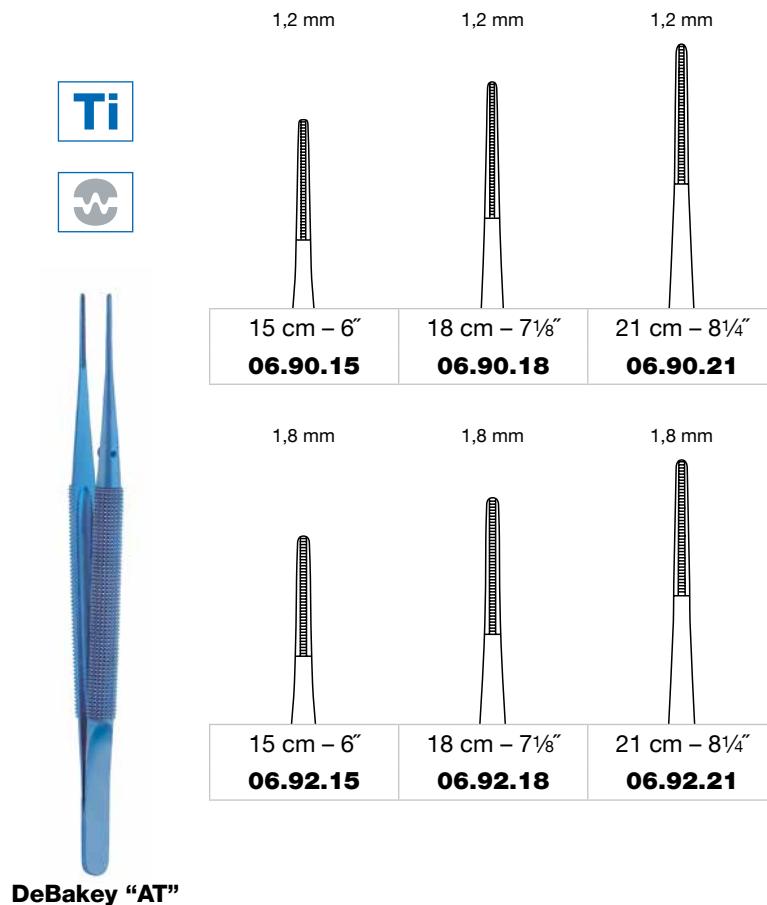
Atraumatic Forceps and Micro Forceps

Pinzas atraumáticas y micro pinzas

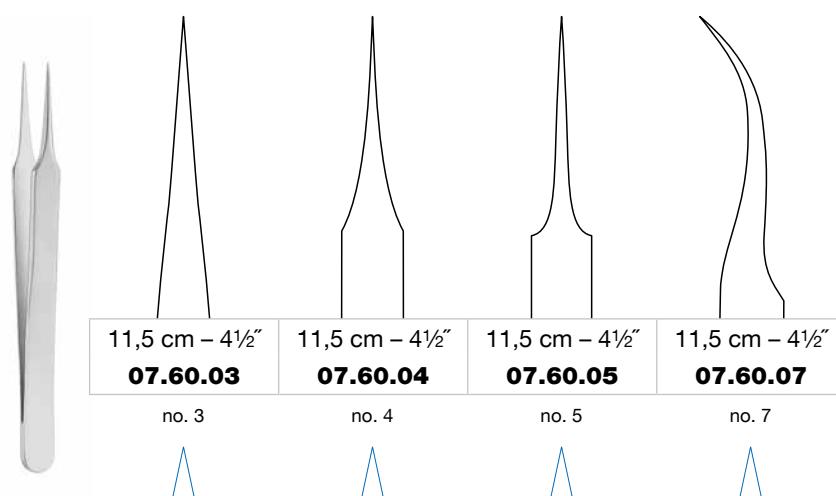
Pince atraumatiques et micro pinces

Pinze atraumatiche e micro pinze

A03



Juwelierpinzetten
Jeweler's forceps
Pinzas para joyero/relojero
Pince pour joaillier/horloger
Pinze per gioielliere/orologioio



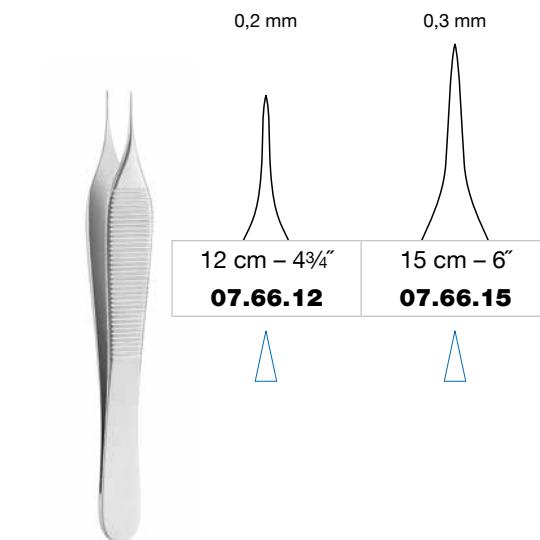
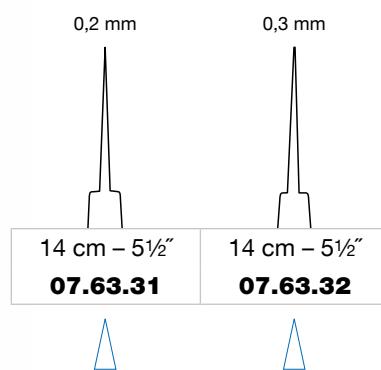
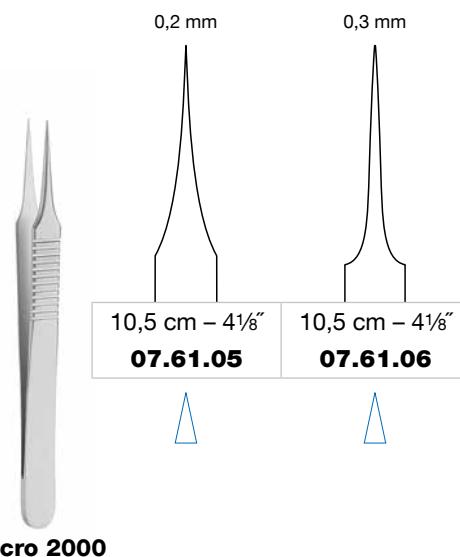
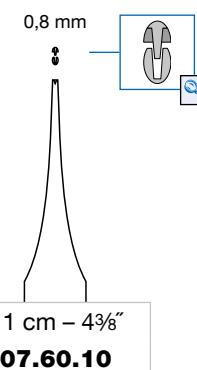
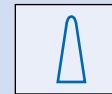
Atraumatische Riefung
Atraumatic serration
Estriás atraumáticas
Striure atraumatique
Zigrinatura atraumatica



Titan
Titanium
Titano
Titane
Titanio

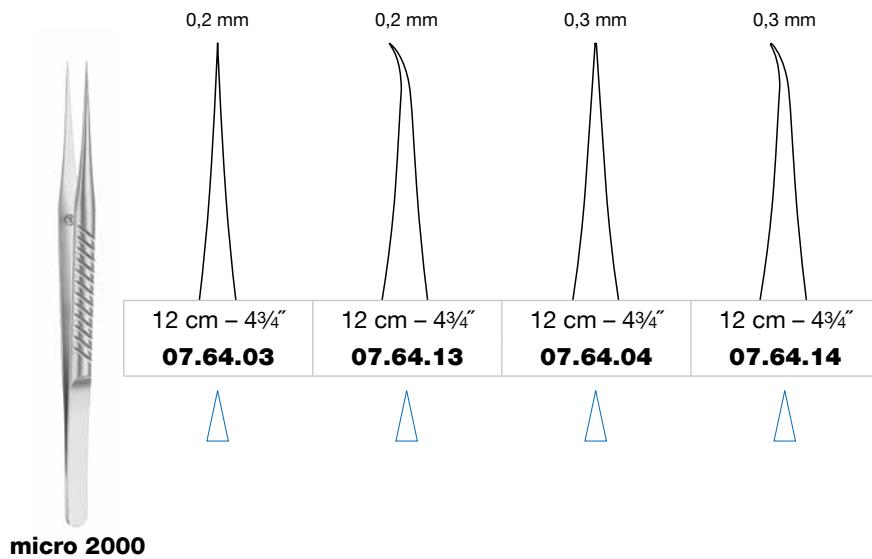


spitz
sharp
aguda
pointu
acuta

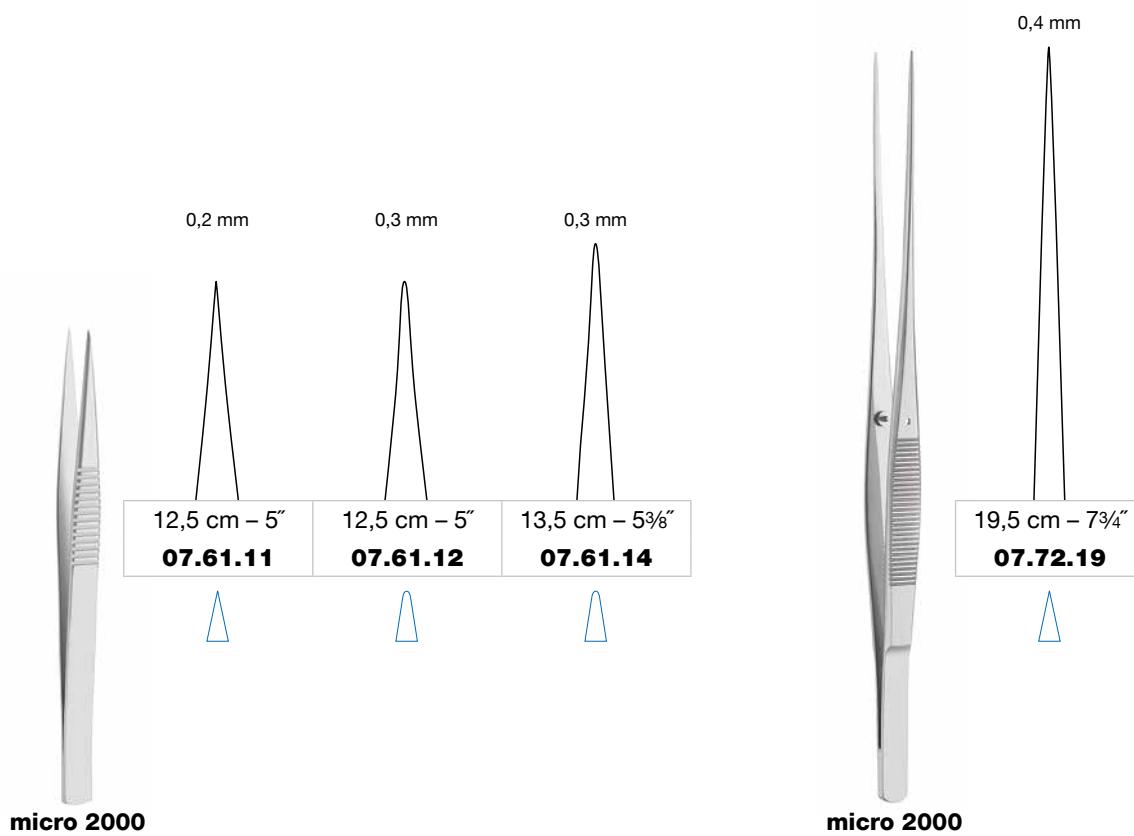
**A03****Mikro-Pinzetten**
Micro Forceps
Micro pinzas
Micro pinces
Micro pinzeVergrößerung
Magnification
Engrandecimiento
Agrandissement
Ingrandimentospitz
sharp
aguja
pointu
acutastumpf
blunt
roma
mousse
smussa



Mikro-Pinzen
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze



micro 2000



micro 2000

micro 2000



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



AO3

Mikro-Pinzetten
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze



micro 2000



0,2 mm	0,2 mm	0,3 mm	0,3 mm
15 cm - 6"			
07.64.63	07.64.73	07.64.64	07.64.74



Instrumente mit blau eloxierten Leichtmetall-Griffen für höchste Präzision und Arbeitskomfort.

Instruments with blue anodized light metal handles for maximum precision and working convenience.

Instrumentos con mangos de metal ligero anodizados en azul para la precisión y el confort de trabajo máximo.

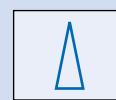
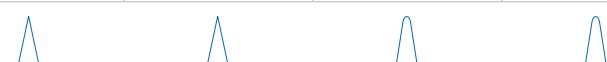
Instruments avec manches en métal léger anodisés en bleu pour un maximum de précision et de confort à l'utilisation.

Strumenti con manici di metallo leggero anodizzati blu per una precisione massima e conforto lavorativo.

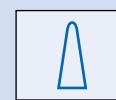
micro 2000



0,3 mm	0,3 mm	0,4 mm	0,4 mm
18 cm - 7 1/8"			
07.64.83	07.64.93	07.64.84	07.64.94



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



Mikro-Pinzen
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze

A03

0,4 mm

0,4 mm

0,5 mm



11 cm - 4 3/8"	15 cm - 6"	18 cm - 7 1/8"
07.70.11	07.70.15	07.70.18



Jacobson

0,8 mm

1,2 mm

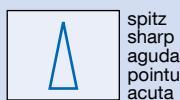


16,5 cm - 6 1/2"	16,5 cm - 6 1/2"
07.75.30	07.75.31

1,0 mm



19 cm - 7 1/2"
07.75.32



spitz
sharp
aguda
pointu
acuta



AO3

Mikro-Pinzetten
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze



Ti

8 mm
C

0,4 mm

0,4 mm

0,4 mm

15 cm - 6"
07.74.1518 cm - 7 1/8"
07.74.1821 cm - 8 1/4"
07.74.21

0,8 mm

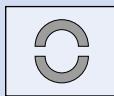
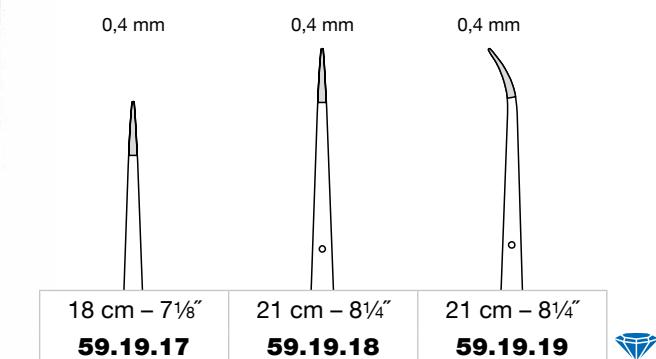
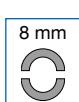
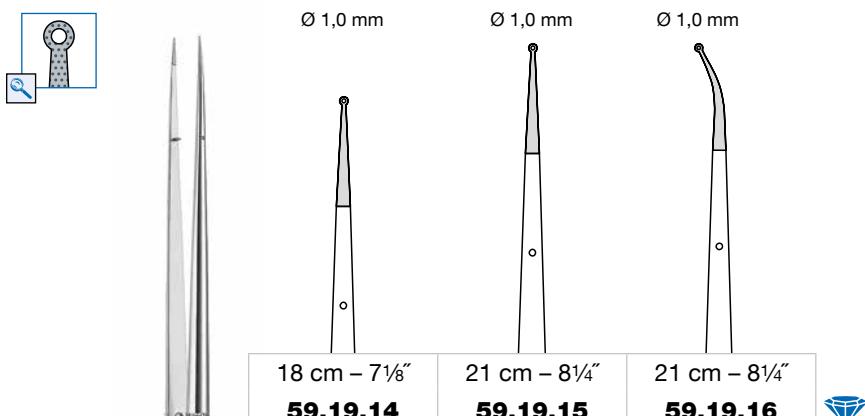
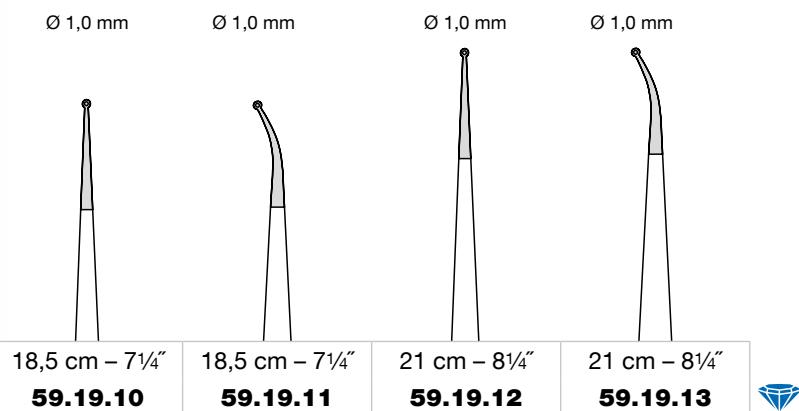
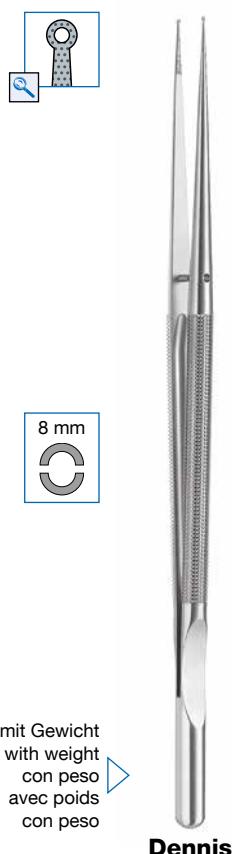
0,8 mm

0,8 mm

15 cm - 6"
07.76.1518 cm - 7 1/8"
07.76.1821 cm - 8 1/4"
07.76.21spitz
sharp
aguda
pointu
acutastumpf
blunt
roma
mousse
smussaTitan
Titanium
Titano
Titane
TitánioRundgriff
Round handle
Mango redondo
Manche rond
Máñico rotundo



Mikro-Pinzen
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze



Rundgriff
Round handle
Mango redondo
Manche rond
Manico rotondo



Beschichtung mit Diamantstaub
Coating with diamond dust
Recubrimiento con polvo de diamante
Revêtement avec de poussière de diamant
Rivestito con polvere di diamante



Vergrößerung
Magnification
Engrandecimiento
Agrandissement
Ingrandimento



AO3

Mikro-Pinzetten
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze



Ø 1,0 mm Ø 1,0 mm Ø 1,0 mm

15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
59.45.15	59.45.18	59.45.21

Ø 2,0 mm Ø 2,0 mm Ø 2,0 mm

15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
59.46.15	59.46.18	59.46.21

Ø 1,0 mm Ø 1,0 mm Ø 1,0 mm

15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
59.47.15	59.47.18	59.47.21



Ø 2,0 mm Ø 2,0 mm Ø 2,0 mm

15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
59.48.15	59.48.18	59.48.21



Titan
Titanium
Titano
Titane
Titano



Ringe gerieft
Tips serrated
Anillos estriados
Anneaux striés
Anelli zigrinati

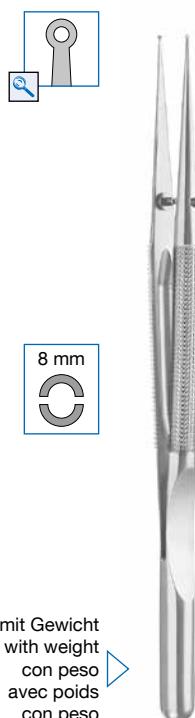


Beschichtung mit Diamantstaub
Coating with diamond dust
Recubrimiento con polvo de diamante
Revêtement avec de poussière de diamant
Rivestito con polvere di diamante



Mikro-Pinzetten
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze

A03



mit Gewicht
with weight
con peso
avec poids
con peso

Ø 1,0 mm

Ø 1,0 mm

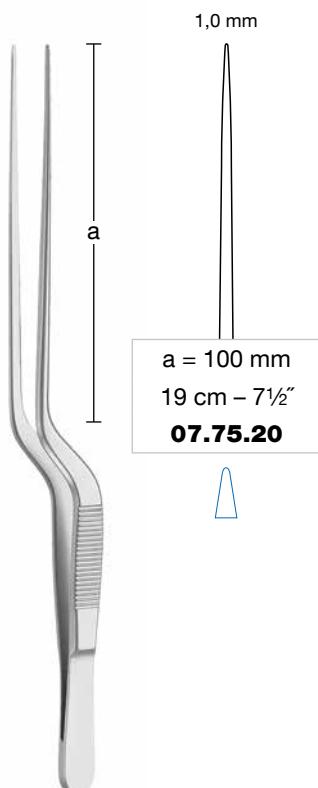
Ø 1,0 mm

15 cm - 6"
59.49.15

18 cm - 7 1/8"
59.49.18

21 cm - 8 1/4"
59.49.21

Bajonetpinzetten
Bayonet forceps
Pinzas en forma bayoneta
Pinces en forme baïonnette
Pinze a forma di baionetta



1,0 mm

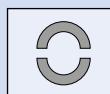
a = 100 mm
19 cm - 7 1/2"
07.75.20



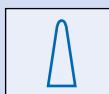
1,0 mm

a = 55 mm
18 cm - 7 1/8"
59.18.16

Yasargil



Rundgriff
Round handle
Mango redondo
Manche rond
Manico rotondo



stumpf
blunt
roma
mousse
smussa



Vergrößerung
Magnification
Engrandecimiento
Agrandissement
Ingrandimento

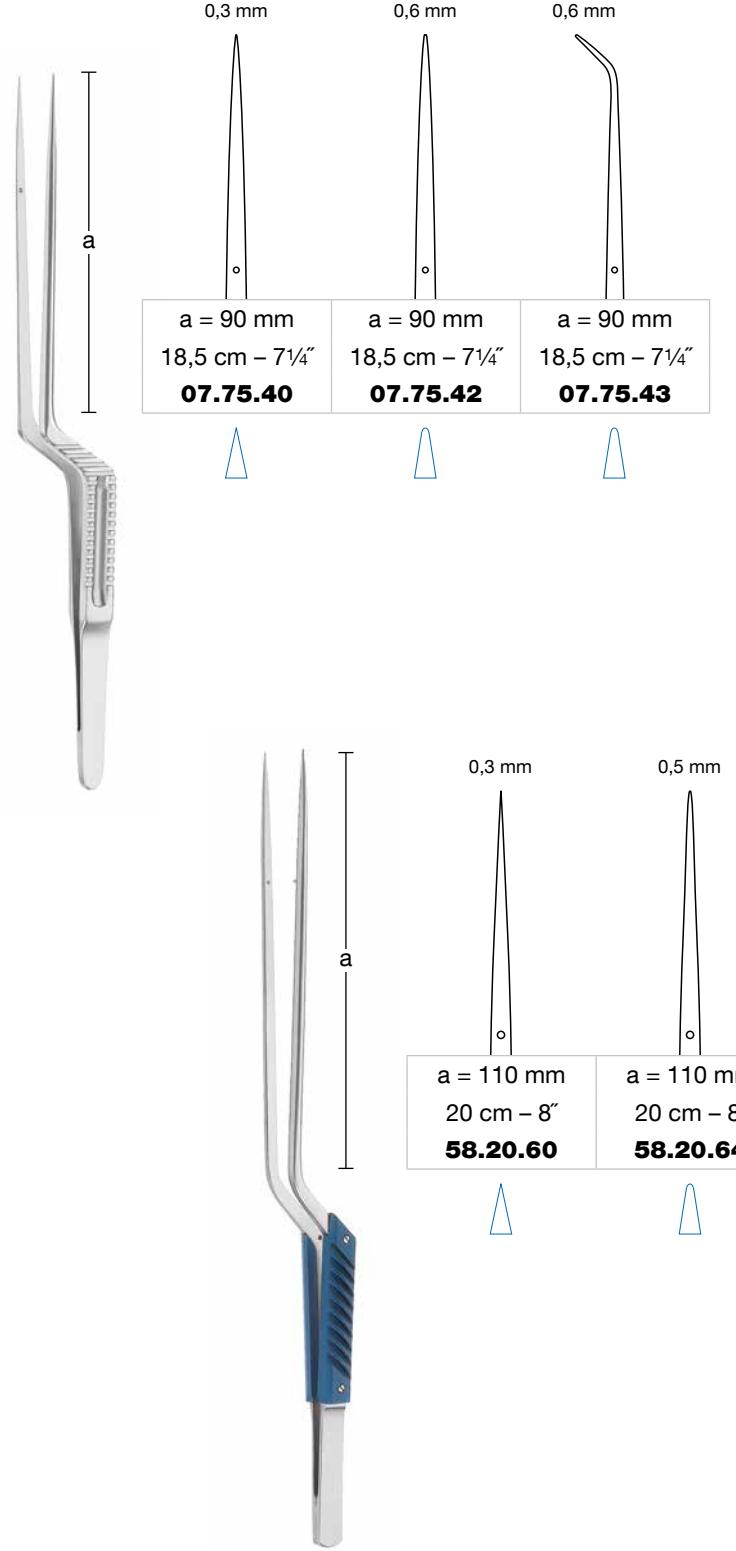


AO3

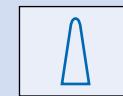
Mikro-Pinzetten
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze

Bajonettpinzetten
 Bayonet forceps
 Pinzas en forma bayoneta
 Pince en forme baïonnette
 Pinze a forma di baionetta

extrem leicht
 extremely light
 especialmente ligera
 extrêmement légère
 estremamente leggera



spitz
 sharp
 aguda
 pointu
 acuta

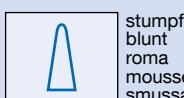


stumpf
 blunt
 roma
 mousse
 smussa



Mikro-Pinzen
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze

Bajonetpinzetten
 Bayonet forceps
 Pinzas en forma bayoneta
 Pinces en forme baïonnette
 Pinze a forma di baionetta



stumpf
 blunt
 roma
 mousse
 smussa



AO3

Mikro-Pinzetten
Micro Forceps
Micro pinzas
Micro pinces
Micro pinze

Bajonettpinzetten
Bayonet forceps
Pinzas en forma bayoneta
Pince en forme baïonnette
Pinze a forma di baionetta



0,6 mm

a = 105 mm
23 cm - 9"
59.23.10



0,9 mm

a = 105 mm
23 cm - 9"
59.23.14



Yasargil



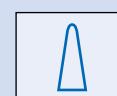
Ø 3,0 mm

a = 100 mm
22 cm - 8¾"
59.44.50

Yasargil



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



Bajonettpinzen
Bayonet Forceps
Pinzas en forma bayoneta
Pince en forme baïonnette
Pinze a forma di baionetta

A03

Bajonettpinzen
 Bayonet forceps
 Pinzas en forma bayoneta
 Pince en forme baïonnette
 Pinze a forma di baionetta



a = 80 mm 18,5 cm – 7 1/4"	a = 95 mm 19,5 cm – 7 3/4"	a = 80 mm 18,5 cm – 7 1/4"
07.26.18	07.26.19	07.27.18

**Cushing (Taylor)**

a = 95 mm 18,5 cm – 7 1/4"
07.26.68

**Cushing (Taylor) "HM"**

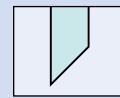
a = 85 mm 16 cm – 6 1/4"	a = 95 mm 19,5 cm – 7 3/4"
07.30.16	07.30.19



a = 85 mm 16 cm – 6 1/4"	a = 95 mm 19,5 cm – 7 3/4"
07.31.16	07.31.19

Gruenwald**"HM"**

Hartmetall
 Tungsten carbide
 Carburo de tungsteno
 Carbure de tungstène
 Carburo di tungsteno



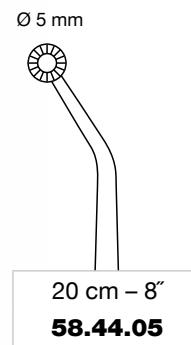
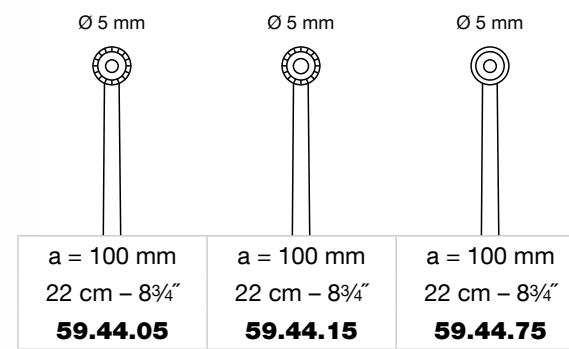
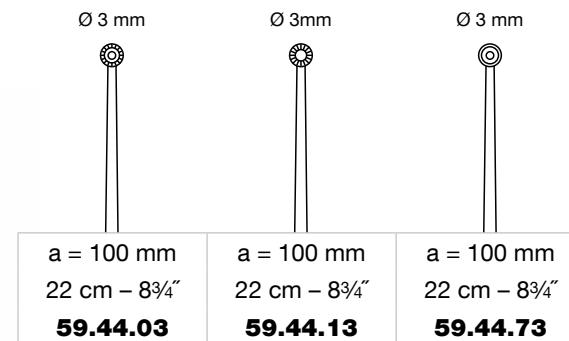
mit Dissektorenende
 with dissector end
 con extremo sirviendo de legra
 avec extrémité dissecateur
 con la parte finale a forma di dissettore



AO3

Fasspinzett
Grasping Forceps
Pinzas para agarrar
Pince pour saisir
Pinza da presa

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch

**Hunt****Yasargil**



Fasspinzetten und Tumorfasszangen
Grasping Forceps and Tumor Grasping Forceps
Pinzas para agarrar y pinzas para agarrar tumores
Pince pour saisir et pinces à saisir pour tumeurs
Pinze da presa e pinze per afferrara tumori

A03

**Yasargil**

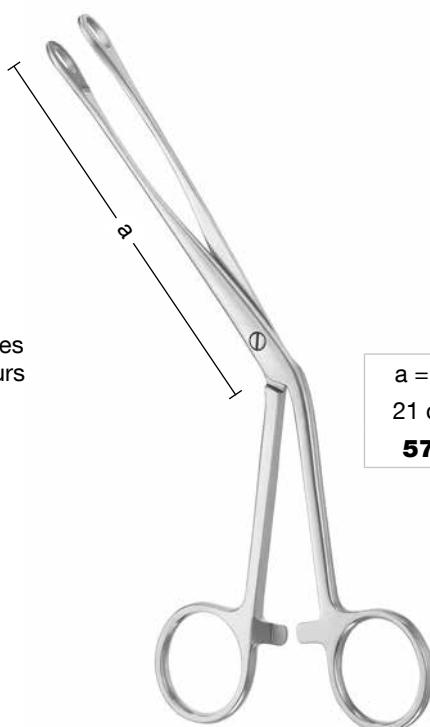
Ø 3 mm

a = 40 mm
16,5 cm – 6½"
59.44.43

Ø 5 mm

a = 40 mm
16,5 cm – 6½"
59.44.45

Tumorfasszangen
Tumor grasping forceps
Pinzas para agarrar tumores
Pince à saisir pour tumeurs
Pinze per afferrare tumori

**Toennis**

7 mm

a = 100 mm
21 cm – 8¼"
57.29.07

10 mm

a = 105 mm
21 cm – 8¼"
57.29.10

12 mm

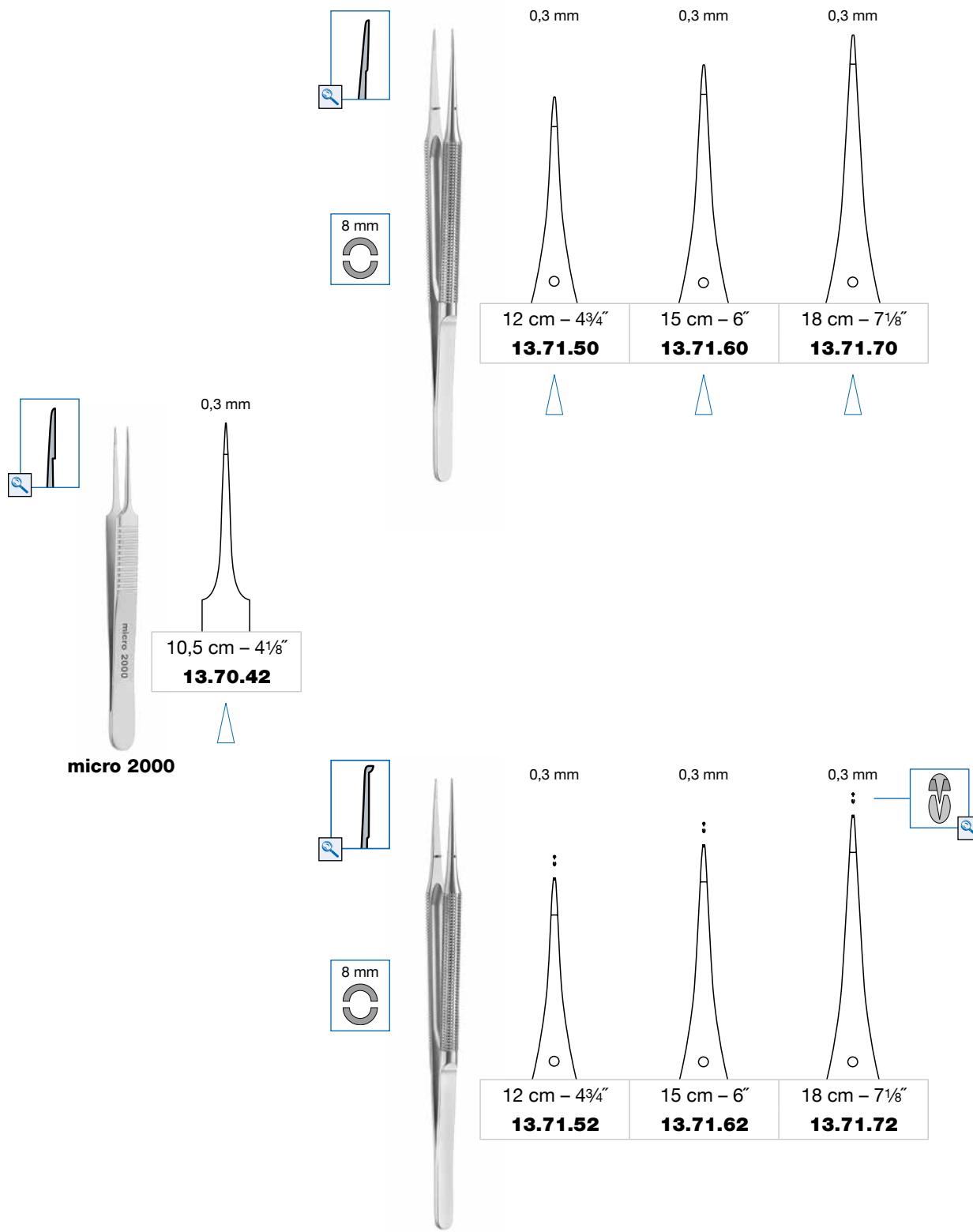
a = 110 mm
21 cm – 8¼"
57.29.12

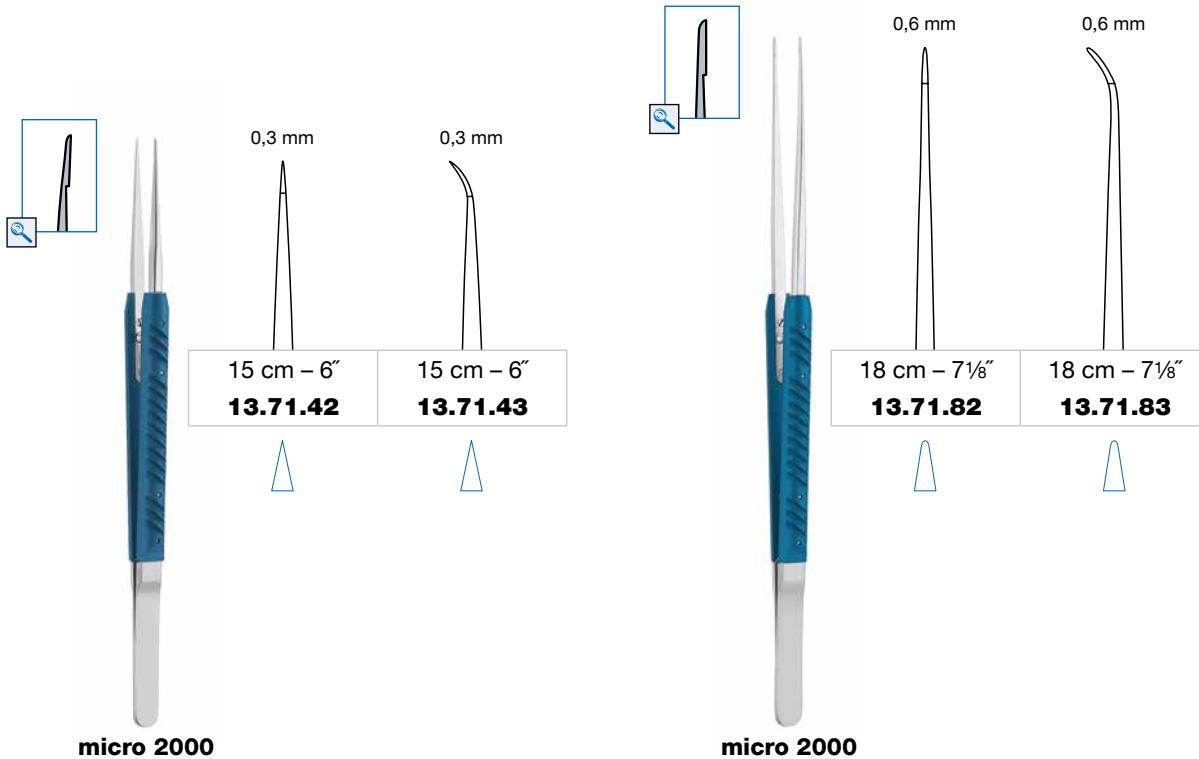


AO3

Nahtpinzetten
Suturing Forceps
Pinzas para sutura
Pinces à suture
Pinze per sutura

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch





Instrumente mit blau eloxierten Leichtmetall-Griffen für höchste Präzision und Arbeitskomfort.

Instruments with blue anodized light metal handles for maximum precision and working convenience.

Instrumentos con mangos de metal ligero anodizados en azul para la precisión y el confort de trabajo máximo.

Instruments avec manches en métal léger anodisés en bleu pour un maximum de précision et de confort à l'utilisation.

Strumenti con manici di metallo leggero anodizzati blu per una precisione massima e conforto lavorativo.



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



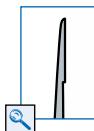
Vergrößerung
Magnification
Engrandecimiento
Agrandissement
Ingrandimento



A03

Nahtpinzetten
Suturing Forceps
Pinzas para sutura
Pinces à suture
Pinze per sutura

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



0,5 mm

14 cm - 5½"
13.70.72

0,8 mm

14 cm - 5½"
13.70.74

0,3 mm

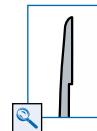
12 cm - 4¾"
13.71.22

0,3 mm

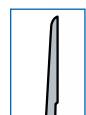
12 cm - 4¾"
13.71.23

micro 2000

micro 2000



0,6 mm

23 cm - 9"
13.71.84

0,8 mm

18 cm - 7⅛"
13.71.86

Austin



Rundgriff
Round handle
Mango redondo
Manche rond
Máñico rotondo



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



Vergrößerung
Magnification
Engrandecimiento
Agrandissement
Ingrandimento



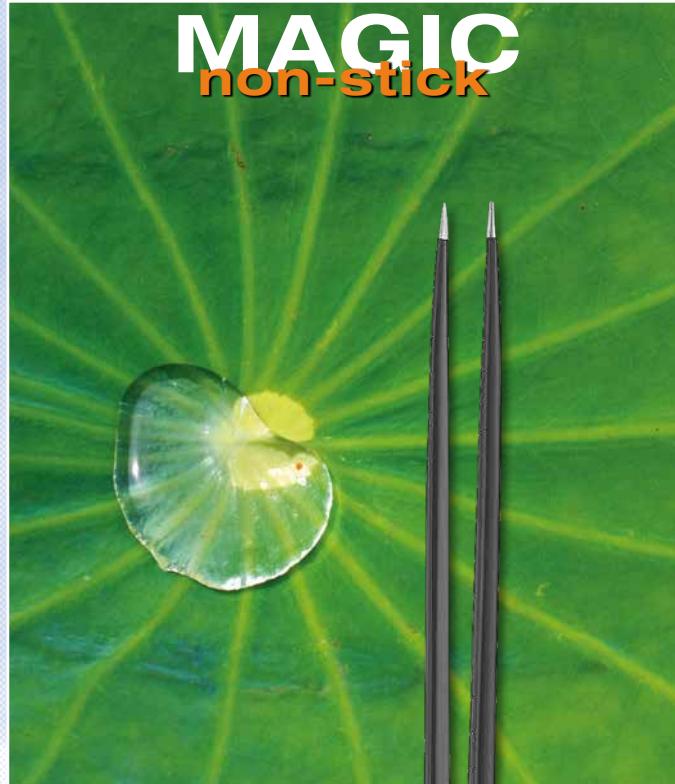
Kein Anhaften von Biogewebe
 Schnelle Wärme- und Stromableitung
 Einfache Reinigung

No adhesion of biological tissue
 Quick discharge of heat and current
 Easy to clean

Ninguna adherencia del tejido
 Derivación rápida del calor y corriente
 Mantenimiento fácil

Les tissus ne collent pas à la pince
 Conductivité rapide et sûre de la chaleur et de l'électricité
 Entretien facile

Nessuna adesione di tessuti
 Derivazione veloce di calore e corrente
 Pulizia facile



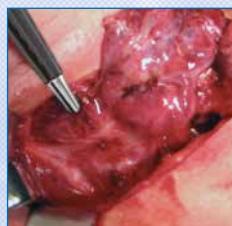
Antihaftbeschichtung sorgt für eine effektive Koagulation

Non-stick coating assures an effective coagulation

El recubrimiento no adherente permite una coagulación eficaz

Grâce à ses pointes anti-adhésives, la pince bipolaire permet une meilleure coagulation

Il rivestimento antiaderente permette una coagulazione effettiva





MAGIC
non-stick

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



0,6 mm	1,0 mm
15 cm - 6"	15 cm - 6"
88.07.02	88.07.03
0,6 mm	1,0 mm
18 cm - 7 1/8"	18 cm - 7 1/8"
88.07.07	88.07.08
0,6 mm	1,0 mm
20 cm - 8"	20 cm - 8"
88.07.12	88.07.13

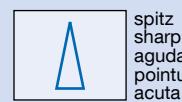


1,3 mm
20 cm - 8"
88.07.14
2,0 mm
20 cm - 8"
88.07.15

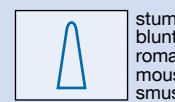
Juwelierpinzetten
Jeweler's forceps
Pinzas para joyero/relojero
Pince pour joaillier/horloger
Pinze per gioielliere/orologiaio



0,25 mm	0,6 mm	1,0 mm
11 cm - 4 3/8"	11 cm - 4 3/8"	11 cm - 4 3/8"
88.07.81	88.07.82	88.07.83



spitz
sharp
aguada
pointu
acuta



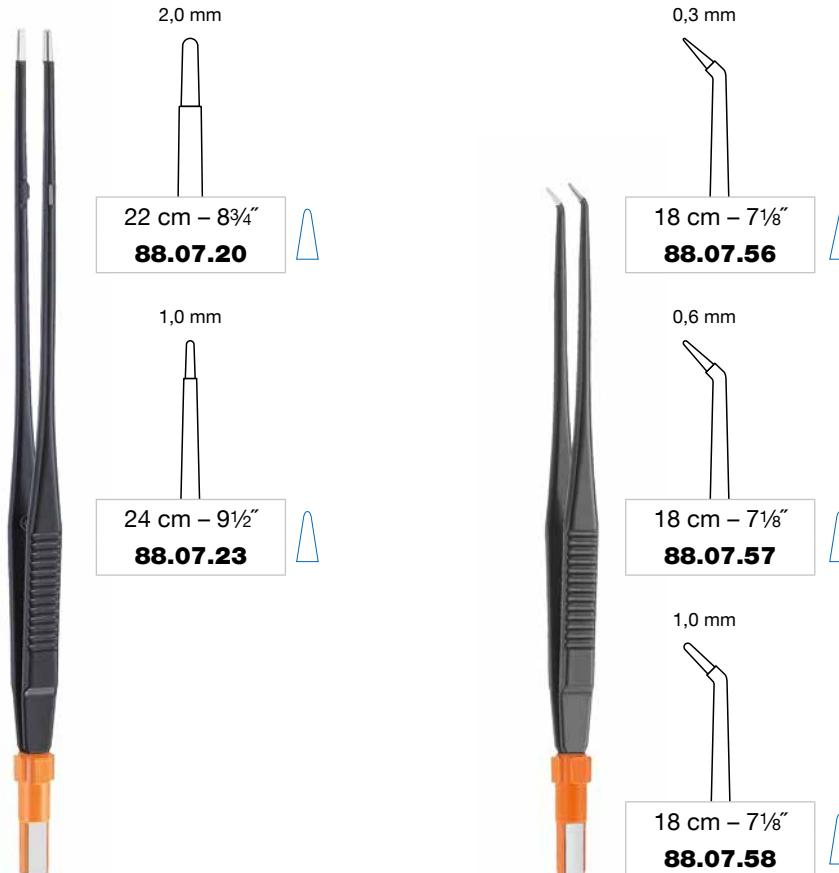
stumpf
blunt
roma
mousse
smussa



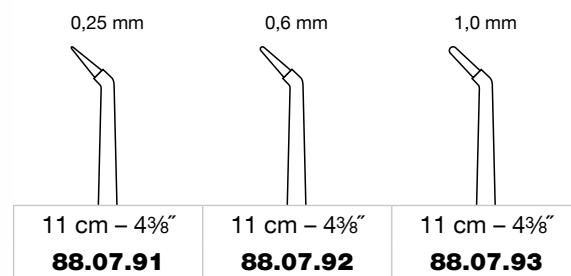
MAGIC non-stick

Bipolare Antihaft-Pinzen
Bipolar Non-stick Forceps
Pinzas bipolares no adherentes
Pinces bipolaires anti-adhésives
Pinze bipolari antiaderenti

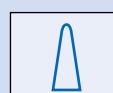
A04



Juwelierpinzetten
Jeweler's forceps
Pinzas para joyero/relojero
Pinces pour joaillier/horloger
Pinze per gioielliere/orologiaio



spitz
sharp
aguada
pointu
acuta



stumpf
blunt
roma
mousse
smussa

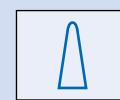


Bajonettpinzen
Bayonet forceps
Pinzas en forma bayoneta
Pince en forme baïonnette
Pinze a forma di baionetta

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



0,3 mm	0,6 mm	1,0 mm	1,3 mm	2,0 mm
$a = 100 \text{ mm}$ 20 cm - 8"	$a = 100 \text{ mm}$ 20 cm - 8"	$a = 100 \text{ mm}$ 20 cm - 8"	$a = 100 \text{ mm}$ 20 cm - 8"	$a = 100 \text{ mm}$ 20 cm - 8"
88.08.01	88.08.02	88.08.03	88.08.04	88.08.05
0,3 mm	0,6 mm	1,0 mm	1,3 mm	2,0 mm
$a = 130 \text{ mm}$ 22 cm - 8¾"	$a = 130 \text{ mm}$ 22 cm - 8¾"	$a = 130 \text{ mm}$ 22 cm - 8¾"	$a = 130 \text{ mm}$ 22 cm - 8¾"	$a = 130 \text{ mm}$ 22 cm - 8¾"
88.08.06	88.08.07	88.08.08	88.08.09	88.08.10
0,3 mm	0,6 mm	1,0 mm	1,3 mm	2,0 mm
$a = 150 \text{ mm}$ 24 cm - 9½"	$a = 150 \text{ mm}$ 24 cm - 9½"	$a = 150 \text{ mm}$ 24 cm - 9½"	$a = 150 \text{ mm}$ 24 cm - 9½"	$a = 150 \text{ mm}$ 24 cm - 9½"
88.08.11	88.08.12	88.08.13	88.08.14	88.08.15

spitz
sharp
aguada
pointu
acutastumpf
blunt
roma
mousse
smussa



MAGIC non-stick

Bipolare Antihaft-Pinzen
Bipolar Non-stick Forceps
Pinzas bipolares no adherentes
Pince bipolaires anti-adhésives
Pinze bipolari antiaderenti

A04

Bajonettpinzen

Bayonet forceps

Pinzas en forma bayoneta

Pinces en forme baïonnette

Pinze a forma di baionetta



0,3 mm



a = 80 mm

18 cm - 7 1/8"

88.08.91

0,6 mm



a = 80 mm

18 cm - 7 1/8"

88.08.92

1,0 mm



a = 80 mm

18 cm - 7 1/8"

88.08.93

0,3 mm



a = 100 mm

20 cm - 8"

88.08.71

0,6 mm



a = 100 mm

20 cm - 8"

88.08.72

1,0 mm



a = 100 mm

20 cm - 8"

88.08.73

0,3 mm



a = 120 mm

22 cm - 8 3/4"

88.08.76

0,6 mm



a = 120 mm

22 cm - 8 3/4"

88.08.77

0,3 mm



a = 140 mm

24 cm - 9 1/2"

88.08.81

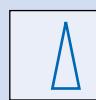
0,6 mm



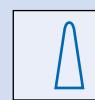
a = 140 mm

24 cm - 9 1/2"

88.08.82



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa



A04

Bipolare Pinzetten
Bipolar Forceps
Pinzas bipolares
Pince bipolaires
Pinze bipolari

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



0,15 mm 16,5 cm - 6 1/2" 88.17.05	0,6 mm 16,5 cm - 6 1/2" 88.17.06	0,15 mm 16,5 cm - 6 1/2" 88.17.07	0,6 mm 16,5 cm - 6 1/2" 88.17.08
0,15 mm 20 cm - 8" 88.20.05	0,6 mm 20 cm - 8" 88.20.06	0,15 mm 20 cm - 8" 88.20.07	0,6 mm 20 cm - 8" 88.20.08

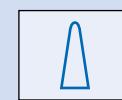
Bajonettpinzetten
Bayonet forceps
Pinzas en forma bayoneta
Pince en forme baïonnette
Pinze a forma di baionetta



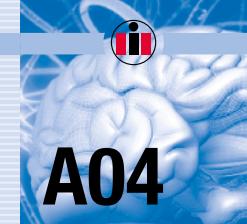
1,0 mm a = 90 mm 19 cm - 7 1/2" 88.70.38	1,0 mm a = 90 mm 19 cm - 7 1/2" 88.70.39
--	--



spitz
sharp
aguda
pointu
acuta



stumpf
blunt
roma
mousse
smussa

**A04**

0,15 mm

11 cm - 4 3/8" **88.12.05**

0,6 mm

11 cm - 4 3/8" **88.12.06**

0,15 mm

11 cm - 4 3/8" **88.12.07**

0,6 mm

11 cm - 4 3/8" **88.12.08**

Bajonettpinzetten
 Bayonet forceps
 Pinzas en forma bayoneta
 Pinces en forme baionnette
 Pinze a forma di baionetta



0,3 mm

a = 95 mm
19 cm - 7 1/2"
88.70.05

0,7 mm

a = 95 mm
19 cm - 7 1/2"
88.70.06

1,2 mm

a = 95 mm
19 cm - 7 1/2"
88.70.16

0,3 mm

a = 125 mm
22,5 cm - 9"
88.23.03

0,7 mm

a = 125 mm
22,5 cm - 9"
88.23.07

1,2 mm

a = 125 mm
22,5 cm - 9"
88.23.12

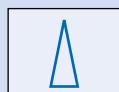
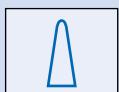
0,3 mm

a = 145 mm
24 cm - 9 1/2"
88.24.03

0,7 mm

a = 145 mm
24 cm - 9 1/2"
88.24.07

1,2 mm

a = 145 mm
24 cm - 9 1/2"
88.24.12spitz
sharp
aguda
pointu
acutastumpf
blunt
roma
mousse
smussa



A04

Bipolare Anschlusskabel und Halteklammer
Bipolar Connecting Cables and Bracket
Cables de conexión bipolar y dispositivo
Câbles connecteurs bipolaires et dispositif
Cavi di connessione bipolar e dispositivo di tenuta

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
cm | inch

Stecker für Instrumente (siehe Seite 58-63)
 Connector for instruments (see page 58-63)
 Enchufe para instrumentos (véase página 58-63)
 Fiche pour instruments (voir page 58-63)
 Fiche pour appareils (voir page 58-63)

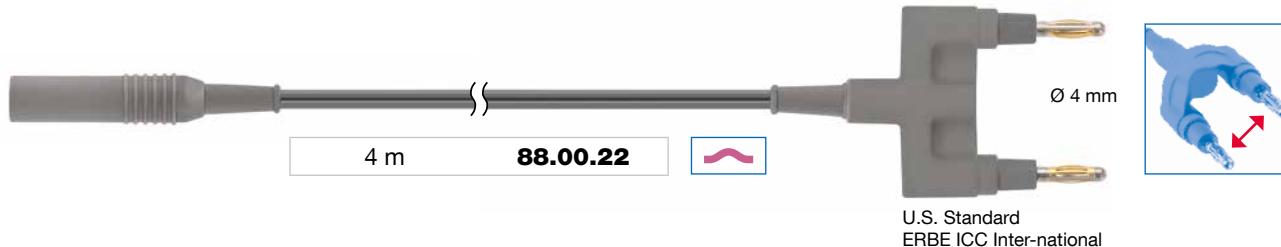
Stecker für Geräte von:
 Connector for generator of:
 Enchufe para equipos de:
 Fiche pour appareils de:
 Attacco per apparecchi:



3 m	88.00.20
5 m	88.00.21



3 m	88.00.23
5 m	88.00.24

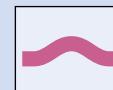


Halteklammer für ein Hochfrequenzkabel mit Knickschutz
 Bracket for one high frequency cable with bend protection
 Dispositivo para un cable de alta frecuencia con protección contra pliegues de cables
 Dispositif pour un câble à haute fréquence avec protection contre plis de câble
 Dispositivo di tenuta per un cavo ad alta frequenza con protezione antipiega

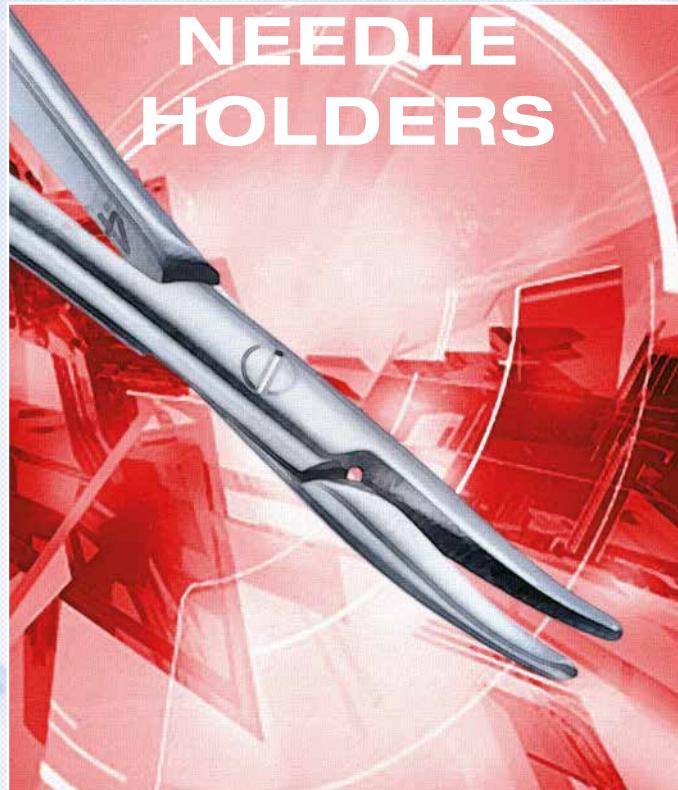
- ▶ Passend für Siebkörbe ab ½-Container
- ▶ Sicherheitsverschluss dient auch als Haltegriff
- ▶ Verwendbar für alle Hochfrequenzkabel
- ▶ Suitable for wire baskets starting from ½ container
- ▶ Safety lock serves as handle
- ▶ Suitable for all high frequency cables
- ▶ Aptos para bandejas a partir de ½ contenedor
- ▶ Cierre de seguridad sirve también de mango
- ▶ Utilizable para todos cables de alta frecuencia
- ▶ Approprié pour paniers à partir de ½ container
- ▶ Fermoir de sécurité utilisable comme manche
- ▶ Approprié pour tous types de câbles à haute fréquence
- ▶ Adatto per cestelli da ½ contenitore
- ▶ Chiusura di sicurezza utilizzabile come manico
- ▶ Adatto a tutti i cavi ad alta frequenza



22,5 cm - 9" **88.00.40**

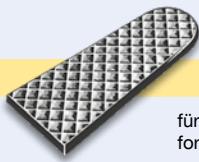


Stecker für Geräte (biegbar)
 Connector for generator (malleable)
 Enchufe para equipos (malleables)
 Fiche pour appareils (malleables)
 Attacco per apparecchi (malleabili)

**A05**

A05**“HM”****Nadelhalter mit Hartmetalleinlagen****Needle holders with tungsten carbide inserts****Porta-agujas con bocas revestidas con plaqüitas de carburo de tungsteno****Porte-aiguilles avec mors en carbure de tungstène****Portagli con placchette di carburo di tungsteno****N 0,5 mm**

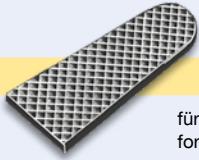
normal
regular
normal
normale
normale



für Nadeln und Nahtmaterial bis Stärke 4-0
 for needles and sutures up to size 4-0
 para agujas y material de sutura hasta el espesor de 4-0
 pour aiguilles et matériel à suture jusqu'à une épaisseur de 4-0
 per aghi e materiale per sutura fino ad uno spessore di 4-0

F 0,4 mm

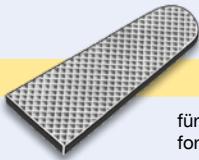
fein
fine
fin
fine
fine



für feine Nadeln und Nahtmaterial in der Stärke 5-0 und 6-0
 for delicate needles and sutures sizes 5-0 and 6-0
 para agujas finas y material de sutura para espesores 5-0 y 6-0
 pour aiguilles fines et matériel à suture d'une épaisseur de 5-0 et 6-0
 per aghi fini e materiale per sutura fino ad uno spessore di 5-0 e 6-0

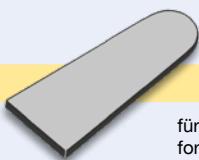
EF 0,3 mm

extra-fein
extra-fine
extra-fino
extra-fine
extra-fine



für Mikro-Nadeln und Nahtmaterial bis Stärke 10-0
 for micro-needles and sutures up to size 10-0
 para micro-agujas y material de sutura hasta el espesor de 10-0
 pour micro-aiguilles et matériel à suture jusqu'à une épaisseur de 10-0
 per aghi micro e materiale per sutura fino ad uno spessore di 10-0

glatt
smooth
liso
lisso
liscia



für feine Nadeln und Nahtmaterial in der Stärke 7-0 bis 10-0
 for delicate needles and sutures from sizes 7-0 to 10-0
 para agujas finas y material de sutura para espesores 7-0 y 10-0
 pour aiguilles fines et matériel à suture d'une épaisseur de 7-0 à 10-0
 per aghi fini e materiale per sutura fino ad uno spessore di 7-0 fino a 10-0



Nadelhalter
Needle Holders
Porta-agujas
Porte-aiguilles
Portagli

A05



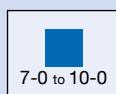
Neivert "HM"



Halsey "HM"



Baumgartner "HM"



glatt
smooth
liso
lisse
liscia



4-0

normal
regular
normal
normale



Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno



A05

Nadelhalter
Needle Holders
Porta-agujas
Porte-aiguilles
Portaghi

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
cm / inch



Mayo-Hegar "HM"

N	16 cm - 6 1/4" 10.18.65	18 cm - 7 1/8" 10.18.68	20 cm - 8" 10.18.70	23 cm - 9" 10.18.73
----------	-----------------------------------	-----------------------------------	-------------------------------	-------------------------------

N	24 cm - 9 1/2" 10.18.74	26 cm - 10 1/4" 10.18.76	30 cm - 11 3/4" 10.18.80
----------	-----------------------------------	------------------------------------	------------------------------------



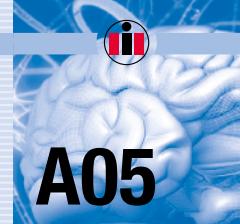
Mayo-Hegar "HM"

N	16 cm - 6 1/4" 10.18.85	18 cm - 7 1/8" 10.18.88	20 cm - 8" 10.18.90	23 cm - 9" 10.18.93
----------	-----------------------------------	-----------------------------------	-------------------------------	-------------------------------

N
4-0
normal
regular
normal
normale
normale

"HM"
Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno

Ti
Titan
Titanium
Titano
Titane
Titano



Nadelhalter
Needle Holders
Porta-agujas
Porte-aiguilles
Portagli

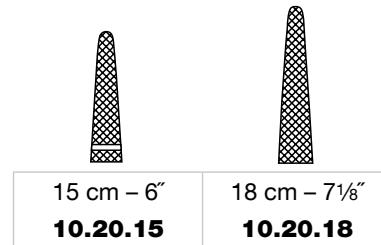
A05



Baby-Crile-Wood

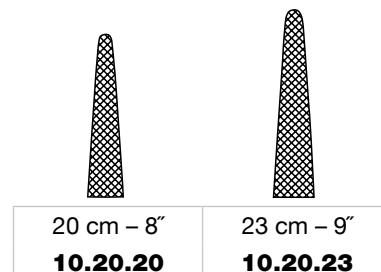


Crile-Wood



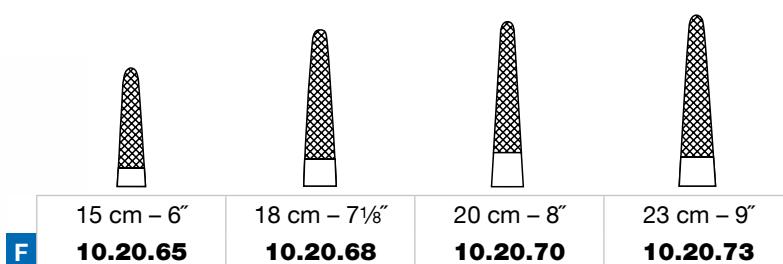
15 cm - 6"
10.20.15

18 cm - 7 1/8"
10.20.18



20 cm - 8"
10.20.20

23 cm - 9"
10.20.23



F
15 cm - 6"
10.20.65

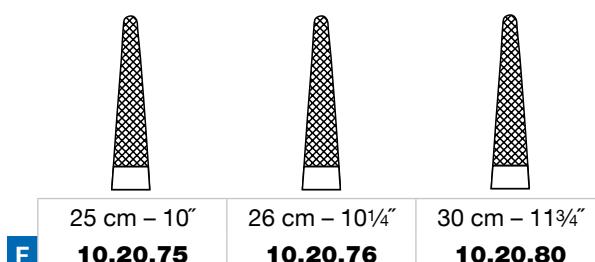
18 cm - 7 1/8"
10.20.68

20 cm - 8"
10.20.70

23 cm - 9"
10.20.73



Crile-Wood "HM"
(DeBakey "HM")



F
25 cm - 10"
10.20.75

26 cm - 10 1/4"
10.20.76

30 cm - 11 3/4"
10.20.80

"HM"

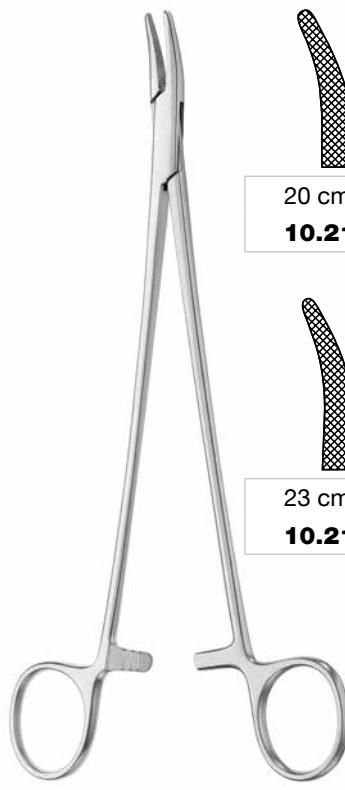
Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno

F
5-0 and 6-0

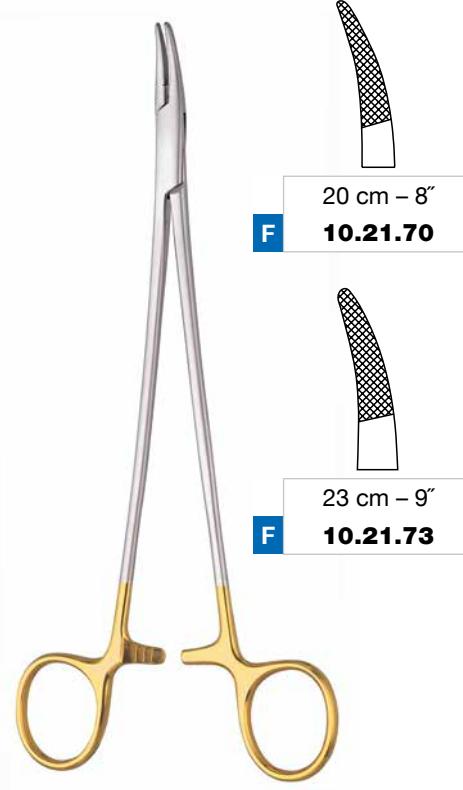
fein
fine
fino
fine
fine



A05

Nadelhalter
Needle Holders
Porta-agujas
Porte-aiguilles
Portaghicm | inch
21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4

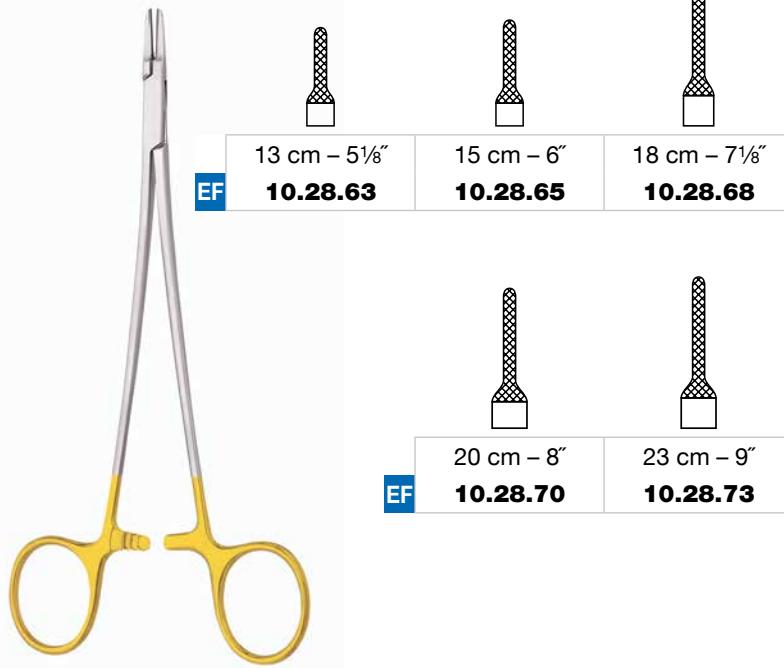
Julian

20 cm - 8"
10.21.2023 cm - 9"
10.21.23

Julian "HM"

20 cm - 8"
F 10.21.7023 cm - 9"
F 10.21.73

Baby-Crile-Wood "HM"

F 15 cm - 6"
10.20.64

Mini-Ryder "HM"

EF 13 cm - 5 1/8"
10.28.63 EF 15 cm - 6"
10.28.65 EF 18 cm - 7 1/8"
10.28.68EF 20 cm - 8"
10.28.70 EF 23 cm - 9"
10.28.73F 5-0 to 6-0
fein
fine
fino
fine
finEF 10-0
extra-fein
extra-fine
extra-fino
extra-fine
extra-fine"HM"
Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Cárburo di tungsteno



Nadelhalter
Needle Holders
Porta-agujas
Porte-aiguilles
Portagli

A05



Mathieu-Kocher "HM"

N 14 cm – 5½" **11.18.64**

17 cm – 6¾" **11.18.67**

N 20 cm – 8" **11.18.70**



Mathieu

14 cm – 5½" **11.20.14**

17 cm – 6¾" **11.20.17**

20 cm – 8" **11.20.20**



Mathieu "HM"

N 14 cm – 5½" **11.20.64**

17 cm – 6¾" **11.20.67**

N 20 cm – 8" **11.20.70**

24 cm – 9½" **11.20.74**

"HM"

Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno

N
4-0

normal
regular
normal
normale
normale



A05

Nadelhalter und Mikro-Nadelhalter
Needle Holders and Micro Needle Holders
Porta-agujas y micro porta-agujas
Porte-aiguilles et micro porte-aiguilles
Portaghi e micro portaghi

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch

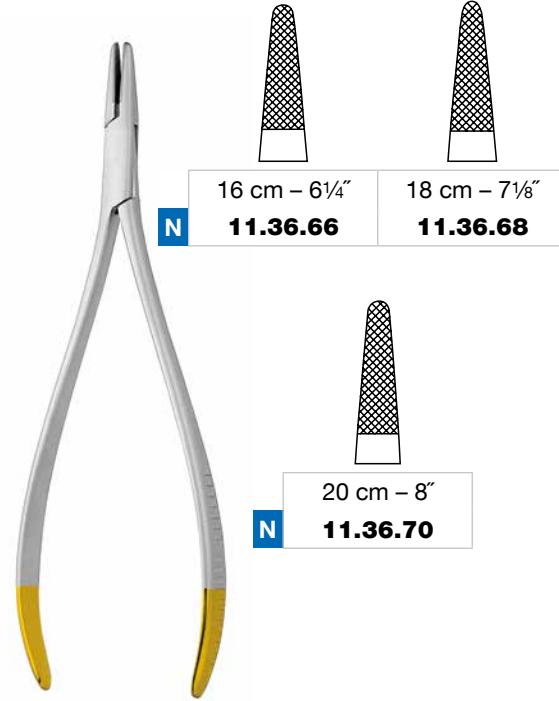


Toennnis "HM"

N 16 cm - 6 1/4" **11.34.66**

N 18 cm - 7 1/8" **11.34.68**

N 20 cm - 8" **11.34.70**



Langenbeck "HM"

N 16 cm - 6 1/4" **11.36.66**

N 18 cm - 7 1/8" **11.36.68**

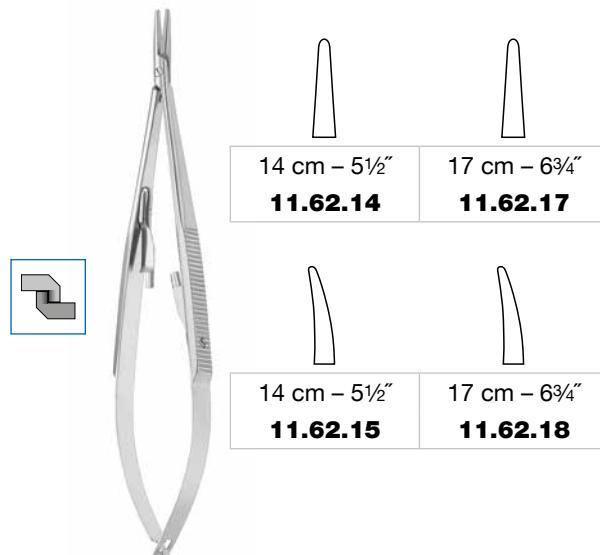
N 20 cm - 8" **11.36.70**

Mikro-Nadelhalter
Micro needle holders
Micro porta-agujas
Micro porte-aiguilles
Micro portaghi



Castroviejo "HM"

11.62.63



Castroviejo

11.62.14 **11.62.17**

11.62.15 **11.62.18**

7-0 to 10-0 glatt
smooth
liso
lisse
liscia

N 4-0 normal
regular
normal
normale
normale

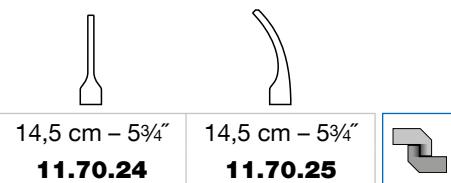
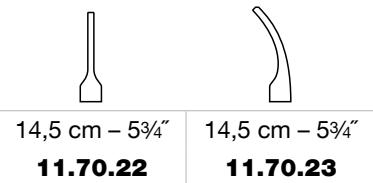
"HM" Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno

mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera

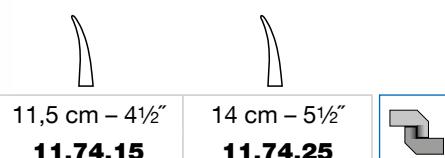


Mikro-Nadelhalter
Micro Needle Holders
Micro porta-agujas
Micro porte-aiguilles
Micro portagli

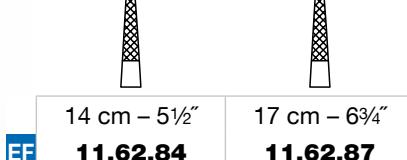
A05



Castroviejo-micro



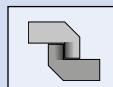
Barraquer



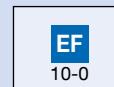
Castroviejo “HM”

“HM”

Hartmetall
Tungsten carbide
Carbone de tungstène
Carbure de tungstène
Carburo di tungsteno



mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera



extra-fein
extra-fine
extra-fino
extra-fine
extra-fine



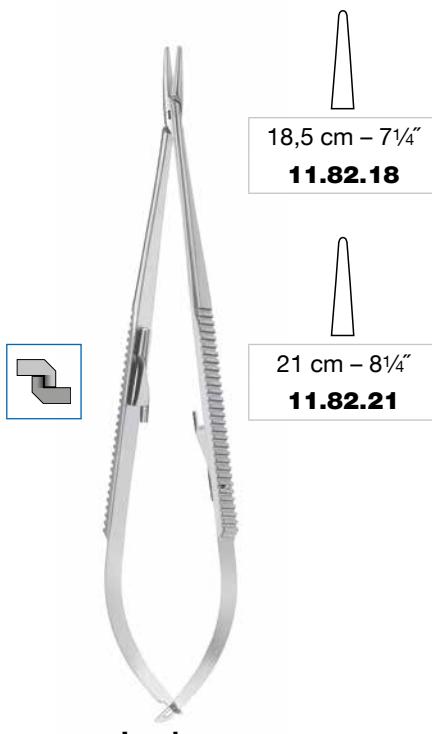
glatt
smooth
liso
lisse
liscia



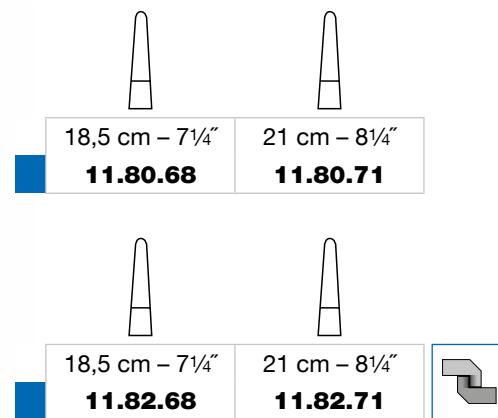
A05

Mikro-Nadelhalter
Micro Needle Holders
Micro porta-agujas
Micro porte-aiguilles
Micro portaghi

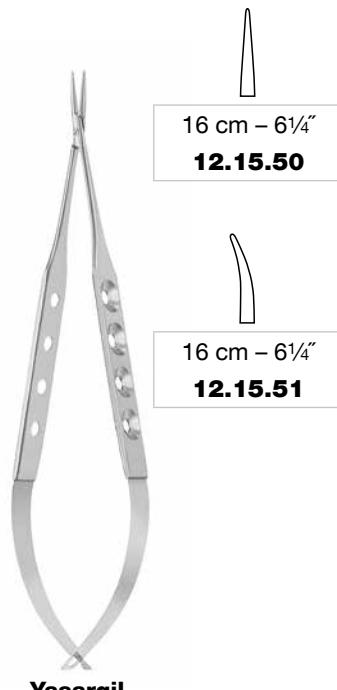
21
20
19
18
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16
15
14
13
12
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10
9
8
7
6
5
4
3
2
1
cm/inch



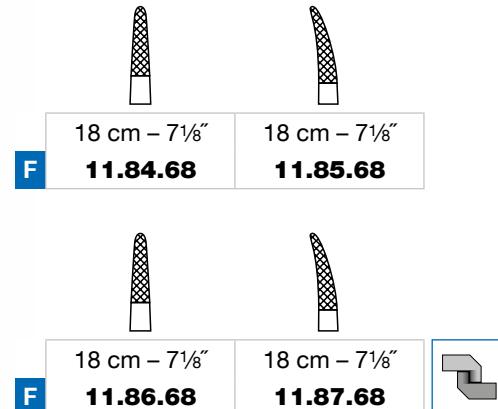
Jacobson



Jacobson "HM"



Yasargil



Jacobson "HM"

7-0 to 10-0

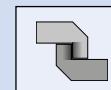
glatt
smooth
liso
lisse
liscia

F
5-0 to 6-0

fein
fine
fino
fine
fine

"HM"

Hartmetall
Tungsten carbide
Carburo de tungsteno
Carbure de tungstène
Carburo di tungsteno

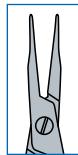


mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera



Mikro-Nadelhalter
Micro Needle Holders
Micro porta-agujas
Micro porte-aiguilles
Micro portaghi

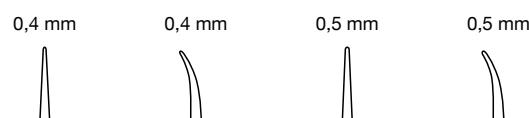
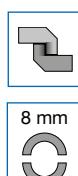
A05



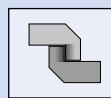
13 cm – 5 1/8"	12.12.54	12.12.55		12.12.59
15 cm – 6"	12.15.76	12.15.77		
18 cm – 7 1/8"	12.18.76	12.18.77	12.18.80	12.18.81
21 cm – 8 1/4"	12.21.76	12.21.77	12.21.80	12.21.81



15 cm – 6"	12.15.56	12.15.57		
18 cm – 7 1/8"	12.18.56	12.18.57	12.18.60	12.18.61
21 cm – 8 1/4"	12.21.56	12.21.57	12.21.60	12.21.61



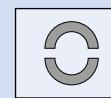
13 cm – 5 1/8"	12.12.56	12.12.57		12.12.61
15 cm – 6"	12.15.78	12.15.79		
18 cm – 7 1/8"	12.18.78	12.18.79	12.18.82	12.18.83
21 cm – 8 1/4"	12.21.78	12.21.79	12.21.82	12.21.83



mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera



Beschichtung mit Diamantstaub
Coating with diamond dust
Recubrimiento con polvo de diamante
Revêtement avec de poussière de diamant
Rivestito con polvere di diamante



Rundgriff
Round handle
Mango redondo
Manche rond
Manico rotondo



A05

Mikro-Nadelhalter
Micro Needle Holders
Micro porta-agujas
Micro porte-aiguilles
Micro portaghi

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



micro 2000

15 cm - 6"	15 cm - 6"
12.15.70	12.15.71

18 cm - 7 1/8"	18 cm - 7 1/8"
12.18.70	12.18.71



Instrumente mit blau eloxierten Leichtmetall-Griffen für höchste Präzision und Arbeitskomfort.

Instruments with blue anodized light metal handles for maximum precision and working convenience.

Instrumentos con mangos de metal ligero anodizados en azul para la precisión y el confort de trabajo máximo.

Instruments avec manches en métal léger anodisés en bleu pour un maximum de précision et de confort à l'utilisation.

Strumenti con manici di metallo leggero anodizzati blu per una precisione massima e conforto lavorativo.

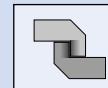


micro 2000

15 cm - 6"	15 cm - 6"
12.15.72	12.15.73

18 cm - 7 1/8"	18 cm - 7 1/8"
12.18.72	12.18.73

18 cm - 7 1/8"	18 cm - 7 1/8"
12.18.74	12.18.75



mit Sperrre
with catch
con cremallera
avec crémaillère
con cremagliera



Beschichtung mit Diamantstaub
Coating with diamond dust
Recubierta con polvo de diamante
Revêtement avec de poussière de diamant
Rivestito con polvere di diamante



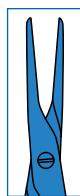
A05



	15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
	12.16.75	12.18.85	12.21.95



	15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
	12.16.77	12.18.87	12.21.97



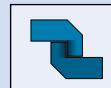
	15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
	12.16.76	12.18.86	12.21.96



	15 cm - 6"	18 cm - 7 1/8"	21 cm - 8 1/4"
	12.16.78	12.18.88	12.21.98



Rundgriff
Round handle
Mango redondo
Manche rond
Manico rotondo



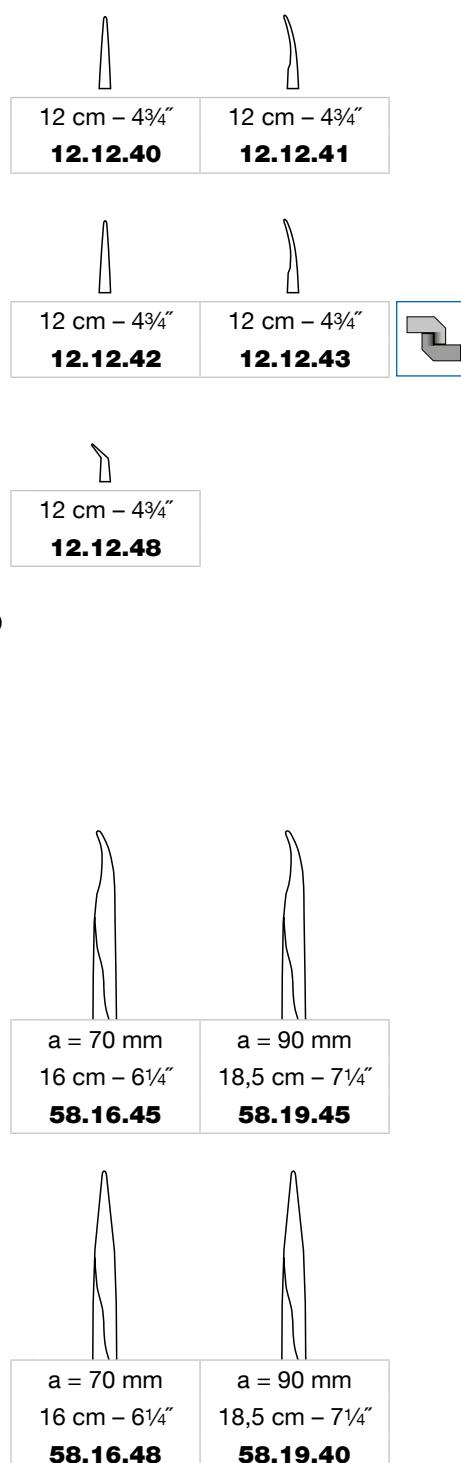
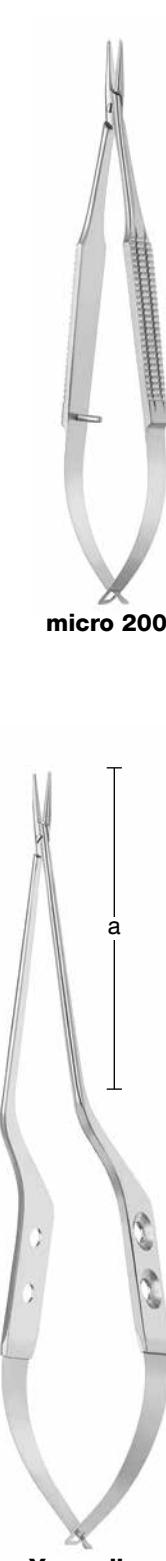
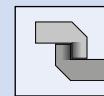
mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera



Titan
Titanium
Titano
Titane
Titario

**A05**

Mikro-Nadelhalter
Micro Needle Holders
Micro porta-agujas
Micro porte-aiguilles
Micro portaghi

**micro 2000****Yasargil****Yasargil**

mit Sperré
 with catch
 con cremallera
 avec crémaillère
 con cremagliera



Konisches Saugrohr verhindert ein Verstopfen der Kanüle
 Bajonetverschluss für schnellen Kanülenwechsel
 Einfache Zerlegbarkeit für optimale Reinigung

Conical suction tube prevents clogging of the cannula
 Bayonet joint for quick cannula changes
 Easy dismantling for best possible cleaning

La cánula cónica de succión evita la obstrucción de la misma
 Cierre de bayoneta para el cambio rápido de las cánulas
 Fácil desmontaje para una limpieza óptima

Un tuyau conique prévient le colmatage de la canule
 Fermeture de type baïonnette pour un remplacement rapide de la canule
 Démontage facile pour un nettoyage optimal

Cannula d'aspirazione coniche per evitare che si otturino
 Attacco a baionetta per una rapida sostituzione della canula
 Facile da smontare per una pulizia ottimale



Progressive und ergonomische Regulierung der Saugkraft
Progressive and ergonomic adjustment of the suction power
Regulación progresiva y ergonómica de la potencia de aspiración
Réglage progressif et ergonomique de la puissance d'aspiration
Regolazione progressiva ed ergonomica dell'intensità d'aspirazione

entwickelt in Zusammenarbeit mit:
 developed in cooperation with:
 desarrollado en colaboración con:
 développée en collaboration avec:
 sviluppato in collaborazione con:

Prof. Marco Cenzato
 Head of Department Neuro Surgery
 Hospital Niguarda Ca' Granda - Milan

**Saug- und Spülinstrumente****Suction and Irrigating Instruments****Instrumentos de aspiración y de lavado****Instruments à aspiration et à irrigation****Strumenti per aspirazione e lavaggio**

P♦E♦N

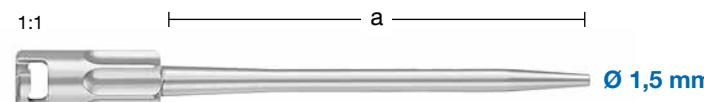
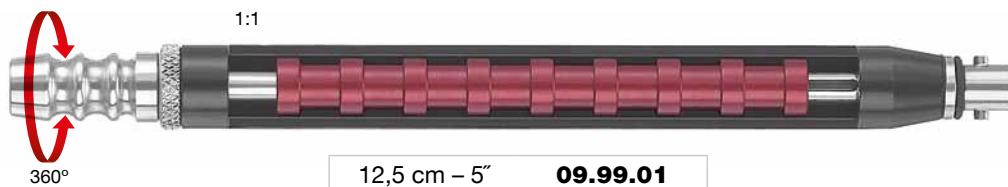
Handgriff mit drehbarem Schlauchansatz

Handle with rotatable tube connection

Mango con empalme giratorio para tubo

Manche avec embout de tuyau pivotant

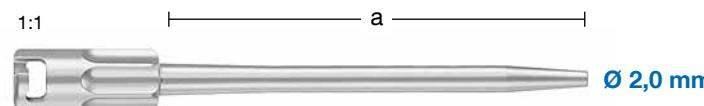
Manico con attacco girevole per tubo



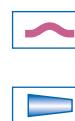
a = 55 mm	09.99.07
a = 90 mm	09.99.08
a = 110 mm	09.99.09



Saugkanülen (biegbar)
Suction cannulas (malleable)
Cánulas de aspiración (maleables)
Canules à aspiration (malléables)
Cannule per aspirazione (malleabili)



a = 55 mm	09.99.11
a = 90 mm	09.99.12
a = 110 mm	09.99.13



Ersatz-O-Ring
Replacement O-ring
Anillo tórico de repuesto
Joint torique de recharge
Guarnizione circolare di ricambio



P₁₀ **909.81.01**



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



Saugkanülenrohre sind konisch
Conical shape of the suction canules
Forma cónica de la cánulas
Canules de forme conique
Cannule di forma conica



biegbar
malleable
maleables
malléables
malleabili



Saug- und Spülinstrumente
Suction and Irrigating Instruments
Instrumentos de aspiración y de lavado
Instruments à aspiration et à irrigation
Strumenti per aspirazione e lavaggio

A06

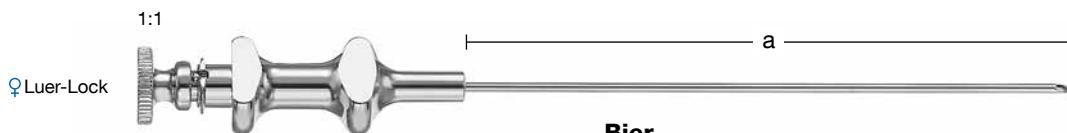
**Quincke**

a = 80 mm	09.72.07	Ø 0,7 mm
a = 90 mm	09.72.08	Ø 0,7 mm
a = 80 mm	09.72.10	Ø 1,0 mm
a = 90 mm	09.72.11	Ø 1,0 mm
a = 90 mm	09.72.12	Ø 1,2 mm
a = 100 mm	09.72.13	Ø 1,2 mm
a = 150 mm	09.72.14	Ø 1,2 mm

Punktionskanülen
Puncture cannulas
Cáñulas para punción
Canules à ponction
Cannule per puntura

**Tuohy**

a = 80 mm	09.73.12	Ø 1,30 mm
a = 80 mm	09.73.14	Ø 1,50 mm
a = 80 mm	09.73.16	Ø 1,65 mm

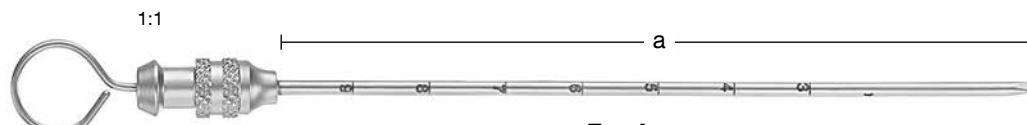
**Bier**

a = 80 mm	09.73.92	Ø 1,2 mm
a = 90 mm	09.73.93	Ø 1,2 mm

**Klima-Rosegger**

a = 35 mm **09.70.18** Ø 1,8 mm

graduiert in cm
graduated in cms
graduado en cm
graduada en cm
graduato in cm

**Frazier**

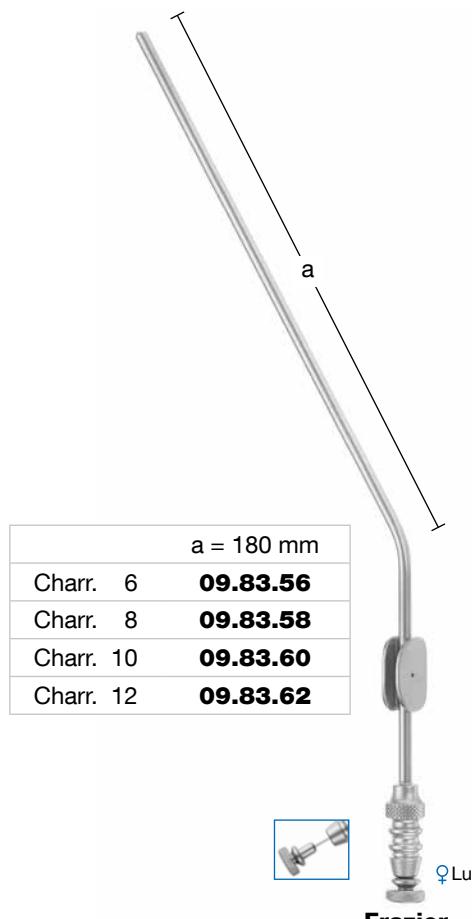
a = 100 mm **57.39.02** Ø 2,0 mm



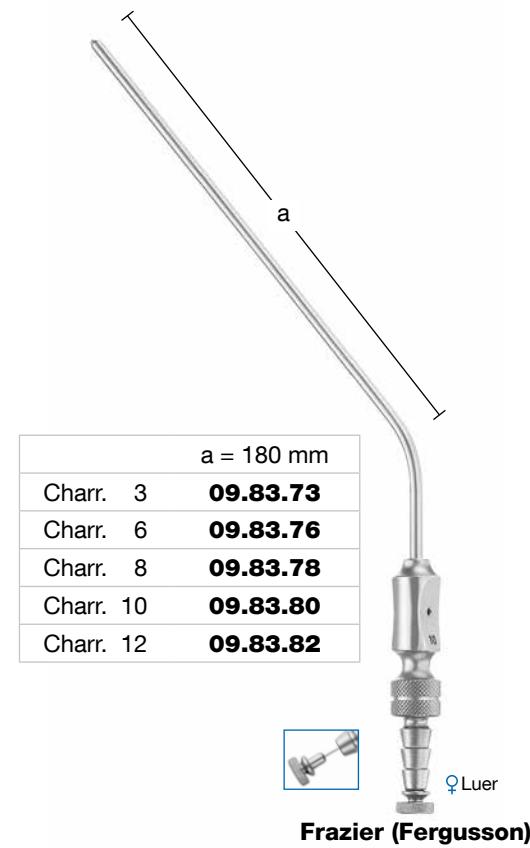
A06

Saug- und Spülinstrumente
Suction and Irrigating Instruments
Instrumentos de aspiración y de lavado
Instruments à aspiration et à irrigation
Strumenti per aspirazione e lavaggio

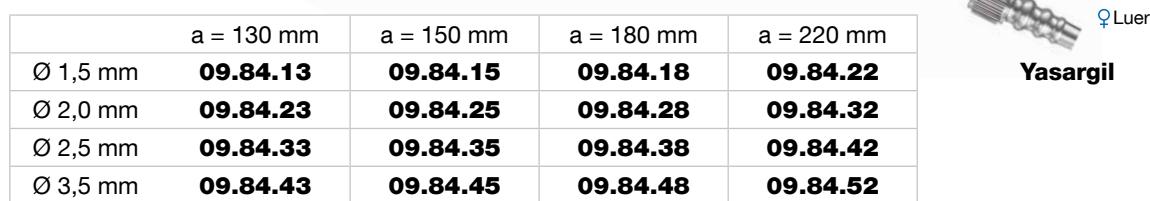
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



a = 180 mm	
Charr. 6	09.83.56
Charr. 8	09.83.58
Charr. 10	09.83.60
Charr. 12	09.83.62



a = 180 mm	
Charr. 3	09.83.73
Charr. 6	09.83.76
Charr. 8	09.83.78
Charr. 10	09.83.80
Charr. 12	09.83.82



	a = 130 mm	a = 150 mm	a = 180 mm	a = 220 mm
Ø 1,5 mm	09.84.13	09.84.15	09.84.18	09.84.22
Ø 2,0 mm	09.84.23	09.84.25	09.84.28	09.84.32
Ø 2,5 mm	09.84.33	09.84.35	09.84.38	09.84.42
Ø 3,5 mm	09.84.43	09.84.45	09.84.48	09.84.52





Bajonet-Saugkanüle

Bayonet suction cannula

Cánula de aspiración en forma bayoneta

Canule à aspiration en forme baïonnette

Cannula per aspirazione a forma di baionetta

65 mm



Charr. 9

09.83.99

22,5 cm – 9"

„Tropfen“-Saugkanülen (biegbar)

“Drop-shape design” suction cannulas (malleable)

Cáñulas de aspiración con dispositivo en forma de “gota” (maleables)

Canules à aspiration avec dispositif en forme de “goutte” (malleables)

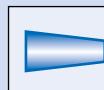
Cannule per aspirazione con dispositivo a forma di “goccia” (malleabili)



Saugkraft ist durch die Saugunterbrechung regulierbar
 Interruption of suction power by taking off the thumb
 Interrupción de la fuerza de succión al destapar la apertura
 Réglage de la succion en retirant le doigt du dispositif
 Controllo della capacità di aspirazione tramite il dispositivo



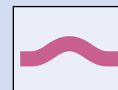
	a = 120 mm	a = 150 mm
Ø 1,0 mm	58.24.15	58.24.21
Ø 1,5 mm	58.24.16	58.24.22
Ø 2,0 mm	58.24.17	58.24.23
Ø 2,5 mm	58.24.18	58.24.24
Ø 3,0 mm	58.24.19	58.24.25
Ø 4,0 mm	58.24.20	58.24.26
Ø 5,0 mm	58.24.30	58.24.31



Saugkanülenrohre sind konisch
 Conical shape of the suction cannules
 Forma cónica de la cánula
 Canules de forme conique
 Cannule di forma conica



mit Mandrin
 with guide
 con mandril
 avec mandrin
 con mandrino



biegbar
 malleable
 maleables
 malléables
 malleabili

medicon-cat NEURO

Für unsere Partner organisieren wir Fortbildungsveranstaltungen und bieten Seminare an. Auch weiterbildende Literatur und CD's stellen wir gerne zur Verfügung.

We organise training courses and offer seminars for our business partners. We also assist our clients with sales tools like literature and CDs.

Ofrecemos seminarios y organizamos cursillos de perfeccionamiento para nuestros clientes. También ponemos a su disposición literatura y CDs.

Pour nos partenaires, nous organisons des séminaires de formation continue. Nous proposons également des livres et des CDROMs de perfectionnement, car, comme nous le savons, le service relie les hommes.

Organizziamo corsi di perfezionamento professionale per i nostri partner ed offriamo seminari. Mettiamo a disposizione volentieri anche letteratura di perfezionamento professionale e CD.





Atraumatische Bulldog-Klemmen
Atraumatic Bulldog Clamps
Clamps Bulldog atraumáticas
Clamps Bulldog atraumatiques
Pinze Bulldog atraumatiche

A07

- Delikate Modelle mit geringem Gewicht und differenzierter Schließkraft für Vene und Arterie
- Delicate types with light weight and different closing pressure for veins and arteries
- Modelos delicados con peso mínimo y fuerza de cierre diferenciada para venas y arterias
- Modèles délicats avec poids réduit et forces différentes de fermeture pour veines et pour artères
- Modelli delicati con peso minimo e forza di chiusura differenziata per vene ed arterie

Ti

1:1



3 cm – 1 1/8"	3,5 cm – 1 3/8"	4 cm – 1 1/2"	5 cm – 2"	
15.04.30	15.04.35	15.04.40	15.04.50	
3 cm – 1 1/8"	3,5 cm – 1 3/8"	4 cm – 1 1/2"	5 cm – 2"	
15.04.31	15.04.36	15.04.41	15.04.51	

Ti

1:1



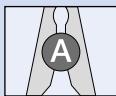
3 cm – 1 1/8"	3,5 cm – 1 3/8"	4 cm – 1 1/2"	5 cm – 2"	
15.05.30	15.05.35	15.05.40	15.05.50	
3 cm – 1 1/8"	3,5 cm – 1 3/8"	4 cm – 1 1/2"	5 cm – 2"	
15.05.31	15.05.36	15.05.41	15.05.51	

Ti

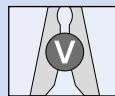
1:1



3 cm – 1 1/8"	3,5 cm – 1 3/8"	4 cm – 1 1/2"	5 cm – 2"	
15.07.30	15.07.35	15.07.40	15.07.50	
3 cm – 1 1/8"	3,5 cm – 1 3/8"	4 cm – 1 1/2"	5 cm – 2"	
15.07.31	15.07.36	15.07.41	15.07.51	



starke Schließkraft, für Arterien
 strong closing pressure, for arteries
 fuerza de cierre alta, para arterias
 force de fermeture forte, pour artères
 forza di chiusura forte, per arterie



schwache Schließkraft, für Venen
 soft closing pressure, for veins
 fuerza de cierre baja, para venas
 force de fermeture faible, pour veines
 forza di chiusura debole, per vene



Titan
 Titanium
 Titano
 Titane
 Titanio

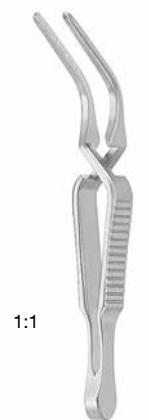


A07

Bulldog-Klemmen
Bulldog Clamps
Clamps Bulldog
Clamps Bulldog
Pinze Bulldogcm | inch
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

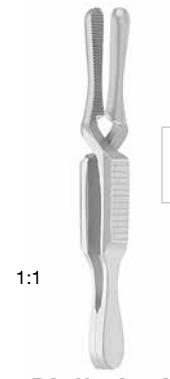
4,5 cm - 1 3/4"	5 cm - 2"	5,5 cm - 2 1/8"
F = 100 g	F = 100 g	F = 100 g
15.10.08	15.10.12	15.10.16

3g

Diethrich

4,5 cm - 1 3/4"	5 cm - 2"	5,5 cm - 2 1/8"
F = 100 g	F = 100 g	F = 100 g
15.11.08	15.11.12	15.11.16

3g

Diethrich

3,8 cm - 1 1/2"	5,1 cm - 2"
15.10.38	15.10.51

1:1

Dieffenbach

3,8 cm - 1 1/2"	5,1 cm - 2"
15.11.38	15.11.51

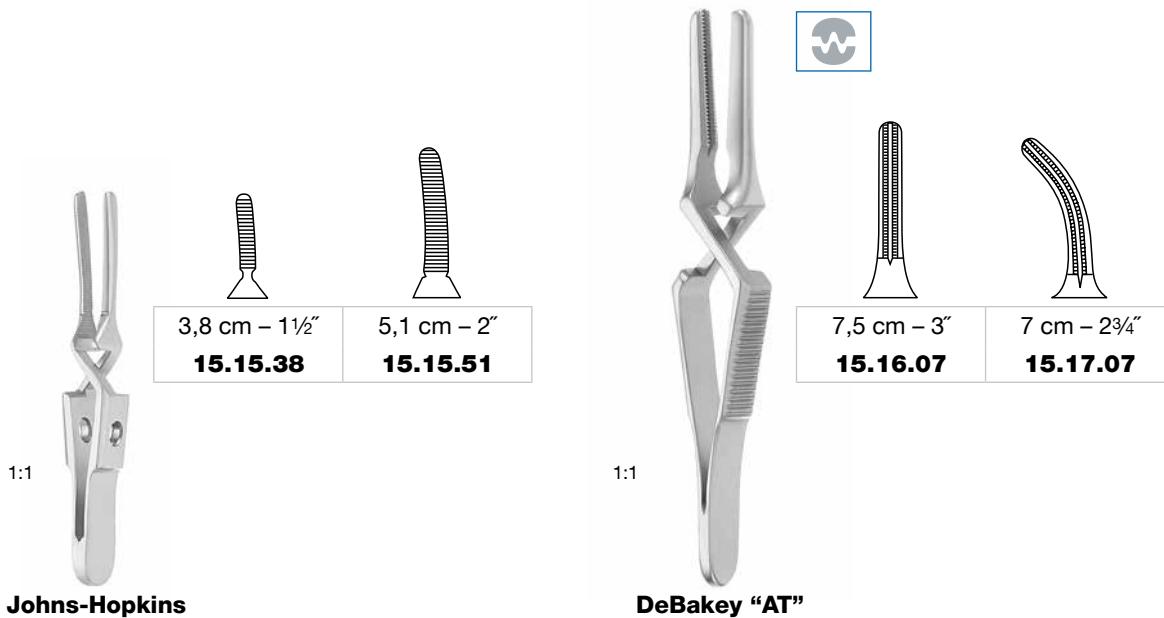
1:1

DieffenbachGewicht
Weight
Peso
Poids
PesoSchließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



Bulldog-Klemmen
Bulldog Clamps
Clamps Bulldog
Clamps Bulldog
Pinze Bulldog

A07



Anlege- und Entnahmzange
 Applying and removing forceps
 Pinza para aplicar y quitar
 Pince à poser et retirer
 Pinza per applicare e togliere

für Bulldog-Klemmen:
 for Bulldog clamps:
 para clamps Bulldog:
 pour clamps Bulldog:
 per pinze Bulldog:

Johns-Hopkins
DeBakey "AT"



Atraumatische Riefung
 Atraumatic serration
 Estriás atraumáticas
 Striure atraumatique
 Zigrinatura atraumatica



A07

Arterienklemmen und Kopfhautklemmen
Hemostatic Forceps and Scalp Forceps
Pinzas hemostáticas y pinzas para cuero cabelludo
Pince hémostatiques et pinces pour cuir chevelu
Pinze emostatiche e pinze per cuoio capelluto

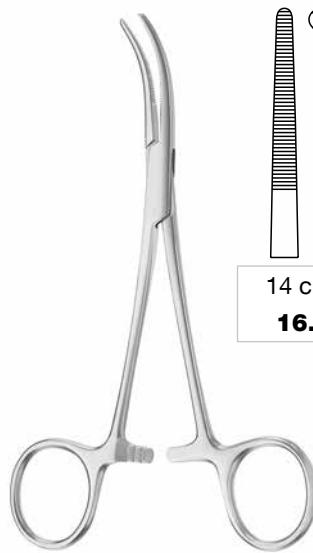
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch

Arterienklemmen
Hemostatic forceps
Pinzas hemostáticas
Pince hémostatiques
Pinze emostatiche



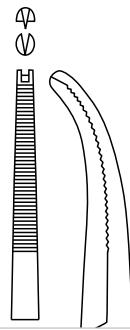
Dandy-Baby

13 cm - 5 1/8"
16.11.83



Dandy

14 cm - 5 1/2"
16.11.84 14 cm - 5 1/2"
16.11.94



Kopfhautklemmen
Scalp forceps
Pinzas para cuero cabelludo
Pince pour cuir chevelu
Pinze per cuoio capelluto



Raimondi

12,5 cm - 5"
16.11.97

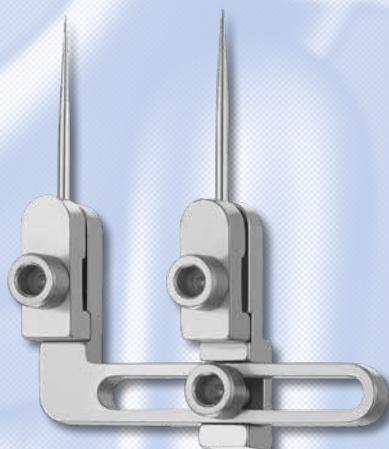


Hoen

12,5 cm - 5"
16.11.98

**A08**

VESSEL CLIPS



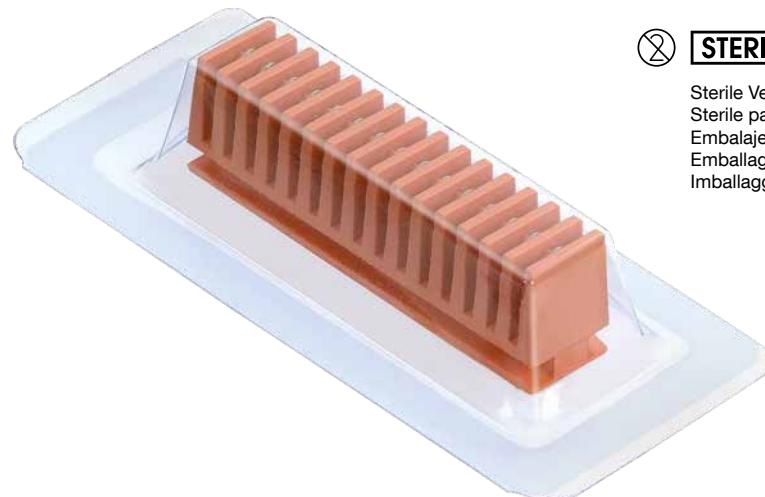


A08

Titan-Clips
Titanium Clips
Clips de titanio
Clips en titane
Clip di titanio

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch

Titan-Clips
 Titanium clips
 Clips de titanio
 Clips en titane
 Clip di titanio

**STERILE**

Sterile Verpackung
 Sterile packaging
 Embalaje estéril
 Emballage stérile
 Imballaggio sterile

1:1

klein
 small
 pequeño
 petit
 piccolo

P₃₀₀
 12 × 25

56.50.01

mittel
 medium
 mediano
 moyen
 medio

P₂₅₀
 10 × 25

56.50.02

mittelgroß
 medium large
 medio grande
 moyen grand
 medio grande

P₁₆₀
 16 × 10

56.50.03

groß
 large
 grande
 grande
 grande

P₁₅₀
 10 × 15

56.50.04

1:1

klein
 small
 pequeño
 petit
 piccolo

P₂₄₀
 24 × 10

56.50.11

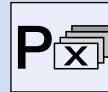
mittel
 medium
 mediano
 moyen
 medio

P₂₀₀
 20 × 10

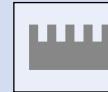
56.50.12

groß
 large
 grande
 grande
 grande

P₁₂₀
 12 × 10

56.50.14

Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi



Magazine x Clips
 Storage tray x clips
 Cartucho x clips
 Cartouche x clips
 Cartuccia x clip



Einmalprodukt
 Single use product
 Producto para un solo uso
 Produit à usage unique
 Prodotto monouso



Anlegezangen für Titan-Clips
Applying Forceps for Titanium Clips
Pinzas para aplicar para clips de titanio
Pince à poser pour clips en titane
Pinze per applicare per clip di titanio

A08



Clipmagazine und Anlegezangen mit gleicher Farbcodierung
Clip storage trays and applying forceps with matching color code
Dispositivo de clips y pinzas aplicadoras con la misma codificación de color
Magasins de clips et pinces à appliquer avec le même code couleur
Cartucce per clip e pinze per applicare con codice colore uguale

Anlegezangen
Applying forceps
Pinzas para aplicar
Pince à appliquer
Pinze per applicare



15 cm – 6" 56.50.15	15 cm – 6" 56.50.25
19,5 cm – 7 3/4" 56.50.19	19,5 cm – 7 3/4" 56.50.29
20,5 cm – 8 1/8" 56.50.30	20,5 cm – 8 1/8" 56.50.40



A08

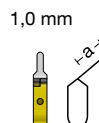
Mikro-Gefäßclips und Anlegepinzette
Micro Vessel Clips and Applying Forceps
Micro clips vasculares y pinza para aplicar
Micro clips vasculaires et pince à appliquer
Micro clip vascolari e pinza per applicare

Clips
Clips
Clips
Clips
Clip

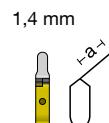


2:1

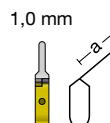
Mehdorn



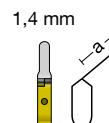
a = 4,0 mm
F = 10-15 g
2,5 mm
56.80.04



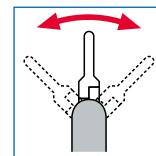
a = 4,0 mm
F = 15-20 g
5,0 mm
56.81.04



a = 6,0 mm
F = 10-15 g
3,0 mm
56.80.06



a = 6,0 mm
F = 15-20 g
3,0 mm
56.81.06

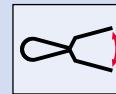


Anlegepinzette
Applying forceps
Pinza para aplicar
Pince à appliquer
Pinza per applicare



14,5 cm - 5³/₄"
56.80.14

Mehdorn



Öffnungsweite
Opening width
Apertura de ancho
Largeur d'ouverture
Larghezza dell'apertura



Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



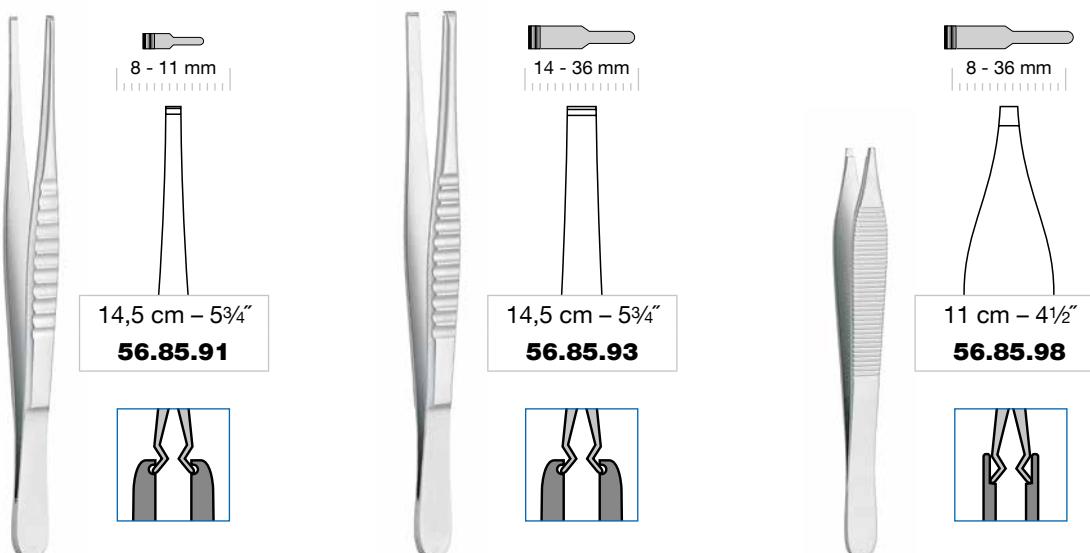
Mikro-Gefäßclips und Anlegepinzetten
Micro Vessel Clips and Applying Forceps
Micro clips vasculares y pinzas para aplicar
Micro clips vasculaires et pinces à appliquer
Micro clip vascolari e pinze per applicare

A08

Clips
Clips
Clips
Clips
Clip

	a = 8 mm Ø 0,4 - 1,0 mm 56.85.07	a = 11 mm Ø 0,6 - 1,5 mm 56.85.10	a = 14 mm Ø 1,0 - 2,25 mm 56.85.13
	P 	A	A
	56.85.08	V	56.85.11
			56.85.14
			V
1:1			
	a = 17 mm Ø 1,0 - 2,25 mm 56.85.16	a = 25 mm Ø 1,5 - 3,5 mm 56.85.18	a = 36 mm Ø 2,0 - 5,0 mm 56.86.36
	P 	A	A
	56.85.17	V	56.85.19
			56.86.37
			V

Anlegepinzetten
Applying forceps
Pinzas para aplicar
Pinces à appliquer
Pinze per applicare



Gefäßdurchmesser
Vessel diameter
Diámetro del vaso
Diamètre du vaisseau
Diametro del vaso



für Arterien
for arteries
para arterias
pour artères
per arterie



für Venen
for veins
para venas
pour veines
per vene



A08

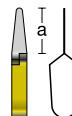
Mikro-Gefäßclips und Anlegepinzetten
Micro Vessel Clips and Applying Forceps
Micro clips vasculares y pinzas para aplicar
Micro clips vasculaires et pinces à appliquer
Micro clip vascolari e pinze per applicare

Clips
Clips
Clips
Clips
Clip

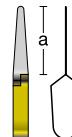
2:1



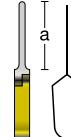
Biemer



$a = 6,0 \text{ mm}$
 $F = 30-40 \text{ g}$
 4,0 mm
56.87.05



$a = 9,0 \text{ mm}$
 $F = 30-40 \text{ g}$
 5,0 mm
56.87.08

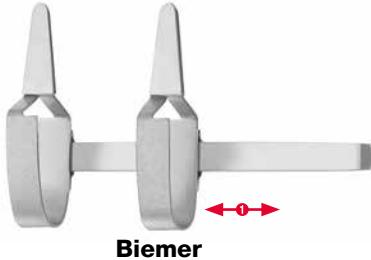


$a = 9,0 \text{ mm}$
 $F = 20-25 \text{ g}$
 5,0 mm
56.87.18

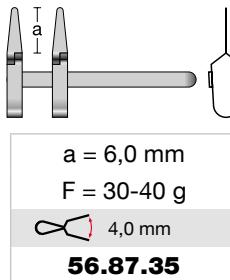
Approximator (1 Clip beweglich)
 Approximator (1 clip mobile)
 Aproximador (1 clip móvil)
 Approximateur (1 clip mobile)
 Approssimatore (1 clip mobile)

Anlegepinzetten
 Applying forceps
 Pinzas para aplicar
 Pince à appliquer
 Pinze per applicare

2:1



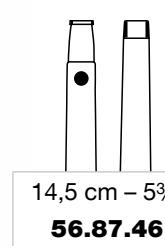
Biemer



$a = 6,0 \text{ mm}$
 $F = 30-40 \text{ g}$
 4,0 mm
56.87.35

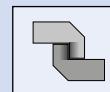


14,5 cm - 5 3/4"
56.87.45

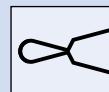


14,5 cm - 5 3/4"
56.87.46

Biemer



mit Sperrre
with catch
con cremallera
avec crémaillère
con cremagliera



Öffnungsweite
Apertura de ancho
Largeur d'ouverture
Larghezza dell'apertura



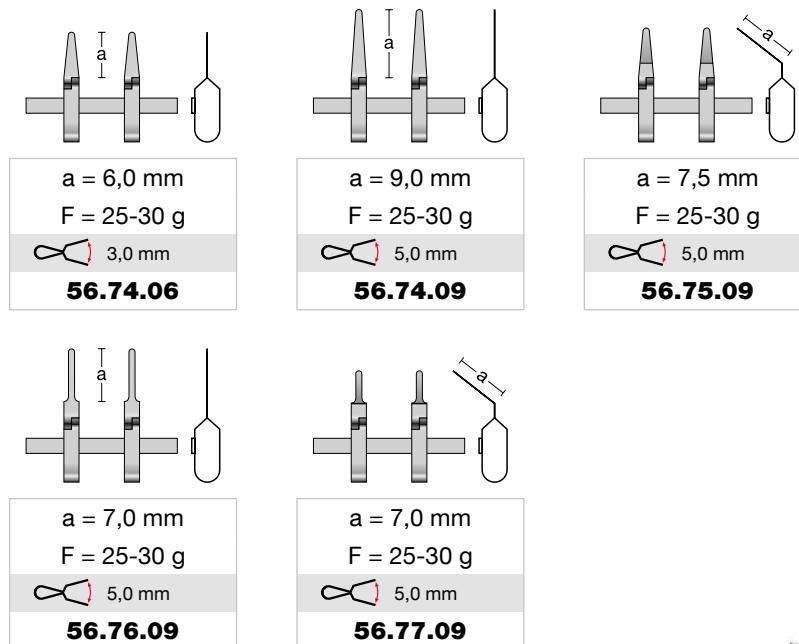
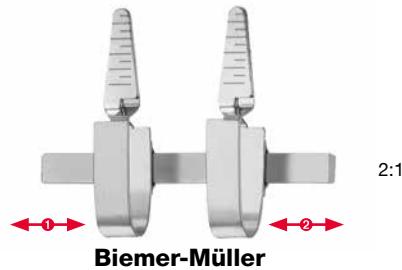
Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



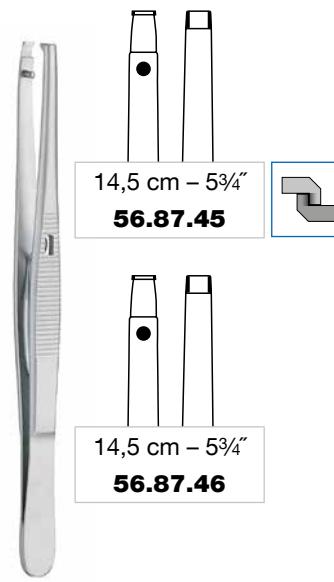
Mikro-Gefäßclips und Anlegepinzetten
Micro Vessel Clips and Applying Forceps
Micro clips vasculares y pinzas para aplicar
Micro clips vasculaires et pinces à appliquer
Micro clip vascolari e pinze per applicare

A08

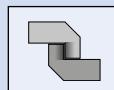
Approximatoren (2 Clips beweglich)
 Approximators (2 clips mobile)
 Aproximadores (2 clips móviles)
 Approximateurs (2 clip mobiles)
 Approssimatori (2 clip mobili)



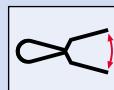
Anlegepinzetten
 Applying forceps
 Pinzas para aplicar
 Pinces à appliquer
 Pinze per applicare



Biemer



mit Sperre
 with catch
 con cremallera
 avec crémaillère
 con cremagliera



Öffnungsweite
 Opening width
 Apertura de ancho
 Largeur d'ouverture
 Larghezza dell'apertura



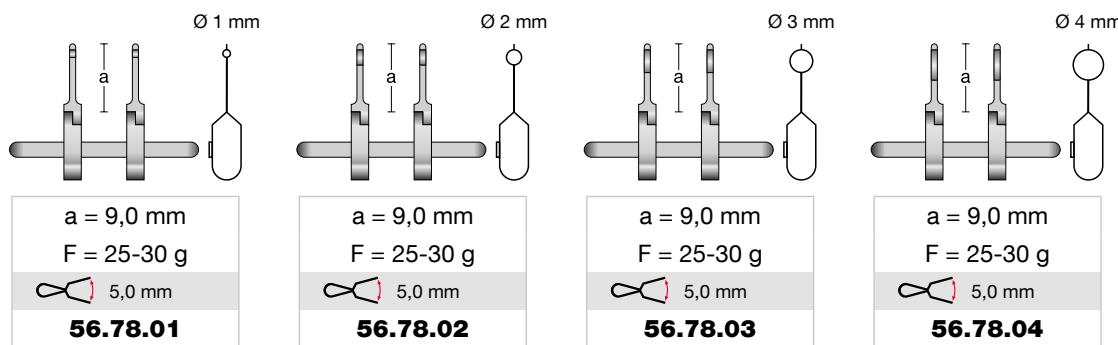
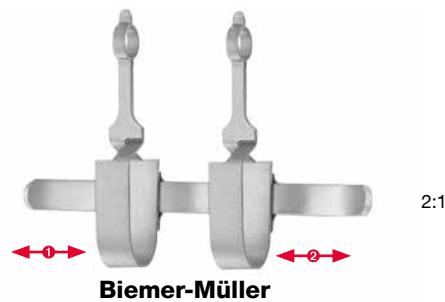
Schließkraft
 Closing pressure
 Fuerza de cierre
 Force de fermeture
 Forza di chiusura



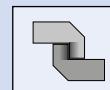
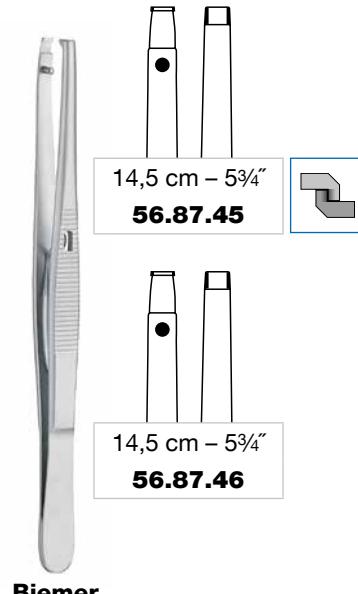
A08

Mikro-Gefäßclips und Anlegepinzetten
Micro Vessel Clips and Applying Forceps
Micro clips vasculares y pinzas para aplicar
Micro clips vasculaires et pinces à appliquer
Micro clip vascolari e pinze per applicare

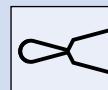
Approximatoren (2 Clips beweglich)
 Approximators (2 clips mobile)
 Aproximadores (2 clips móviles)
 Approximateurs (2 clip mobiles)
 Approssimatori (2 clip mobili)



Anlegepinzetten
 Applying forceps
 Pinzas para aplicar
 Pinces à appliquer
 Pinze per applicare



mit Sperrre
 with catch
 con cremallera
 avec crémaillère
 con cremagliera



Öffnungsweite
 Opening width
 Apertura de ancho
 Largeur d'ouverture
 Larghezza dell'apertura



Schließkraft
 Closing pressure
 Fuerza de cierre
 Force de fermeture
 Forza di chiusura



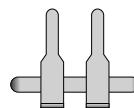
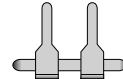
Approximatoren (2 Clips beweglich)

Approximators (2 clips mobile)

Aproximadores (2 clips móviles)

Approximateurs (2 clip mobiles)

Approssimatori (2 clip mobili)



a = 8 mm

Ø 0,4 - 1,0 mm

56.85.47

a = 11 mm

Ø 0,6 - 1,5 mm

56.85.50

a = 14 mm

Ø 1,0 - 2,25 mm

56.85.53

A

V

56.85.48

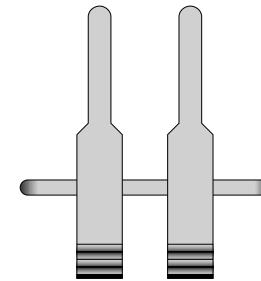
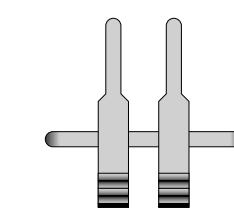
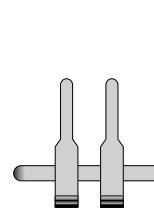
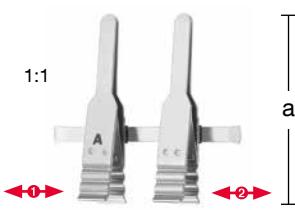
V

56.85.51

V

56.85.54

V



a = 17 mm

Ø 1,0 - 2,25 mm

56.85.56

A

V

a = 25 mm

Ø 1,5 - 3,5 mm

56.85.58

A

V

a = 36 mm

Ø 2,0 - 5,0 mm

56.86.58

A

V

56.85.59

V

56.86.59

A

V

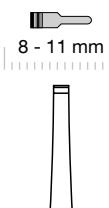
Anlegepinzetten

Applying forceps

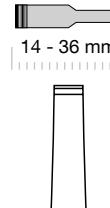
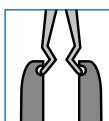
Pinzas para aplicar

Pince à appliquer

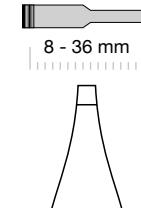
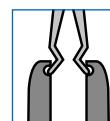
Pinze per applicare



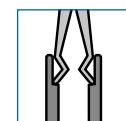
14.5 cm – 5 3/4"
56.85.91



14.5 cm – 5 3/4"
56.85.93



11 cm – 4 1/2"
56.85.98



Gefäßdurchmesser
Vessel diameter
Diámetro del vaso
Diamètre du vaisseau
Diametro del vaso



für Arterien
for arteries
para arterias
pour artères
per arterie



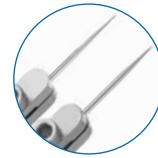
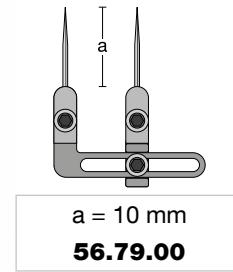
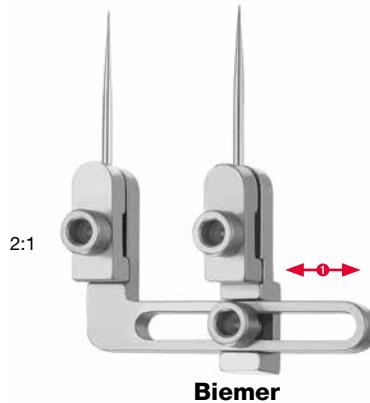
für Venen
for veins
para venas
pour veines
per vene

**A08**
Mikro-Gefäßclips
Micro Vessel Clips
Micro clips vasculares
Micro clips vasculaires
Micro clip vascolari

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch

Nerv-Approximator (1 Clip beweglich)
 Approximator for nerves (1 clip mobile)
 Aproximador para nervios (1 clip móvil)
 Approximateur pour nerfs (1 clip mobile)
 Approssimatore per nervi (1 clip mobile)

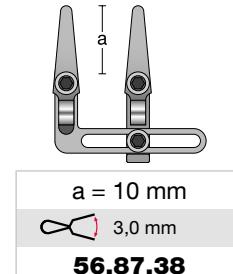
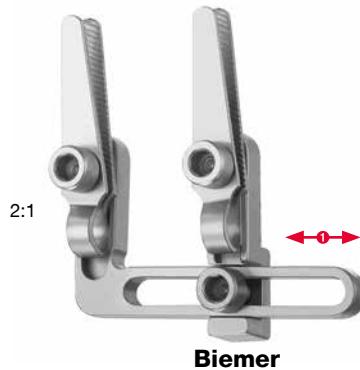
Ersatznadeln
 Spare needles
 Aguas de repuesto
 Aiguilles de recharge
 Aghi di ricambio

**P**
2**56.79.01****a = 10 mm
56.79.00**

mit Schlüssel
 with wrench
 con llave
 avec clé
 con chiave

**56.87.49**

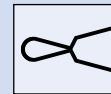
Approximator (1 Clip beweglich)
 Approximator (1 clip mobile)
 Aproximador (1 clip móvil)
 Approximateur (1 clip mobile)
 Approssimatore (1 clip mobile)

**a = 10 mm
3,0 mm
56.87.38**

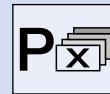
mit Schlüssel
 with wrench
 con llave
 avec clé
 con chiave

**56.87.49**

Ersatzschlüssel
 Replacement wrench
 Llave de repuesto
 Clé de recharge
 Chiave di ricambio

1:1 7,5 cm - 3" Biemer 56.87.49

Öffnungsweite
 Opening width
 Apertura de ancho
 Largeur d'ouverture
 Larghezza dell'apertura



Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi



**Wundhaken und Wundspreizer
Retractors and Self-retaining Retractors
Separadores y separadores autoestáticos
Ecarteurs et ecarteurs autostatiques
Divaricatori e divaricatori autostatici**

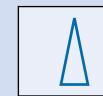
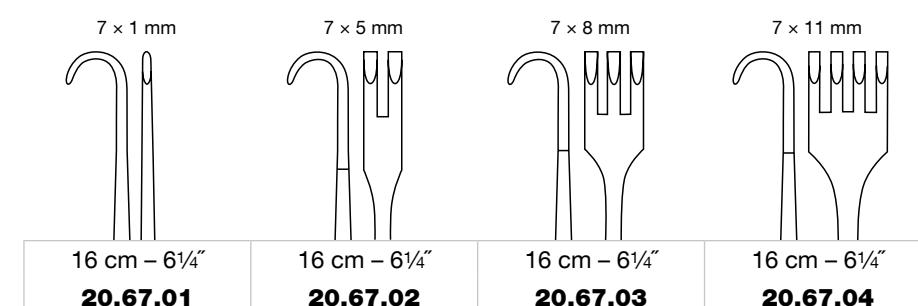
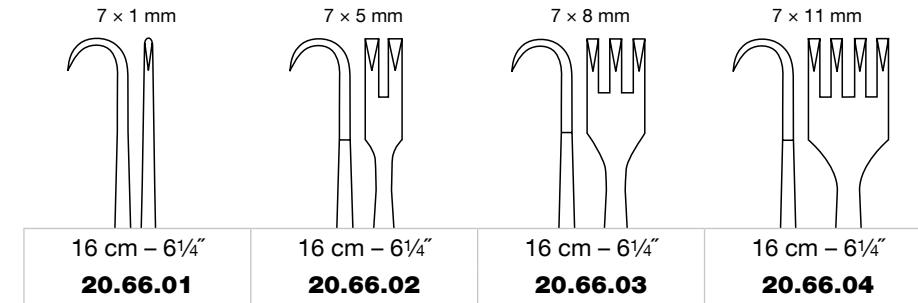
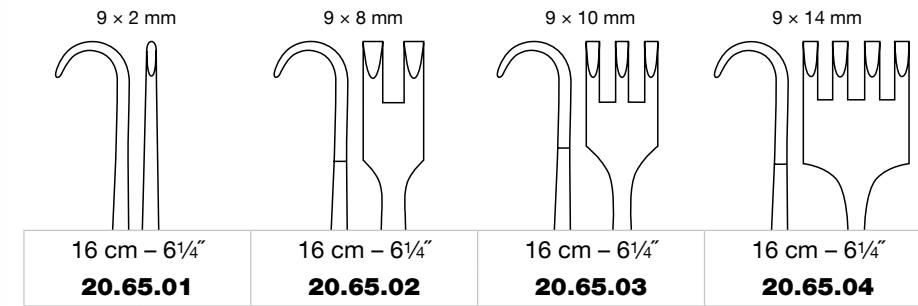
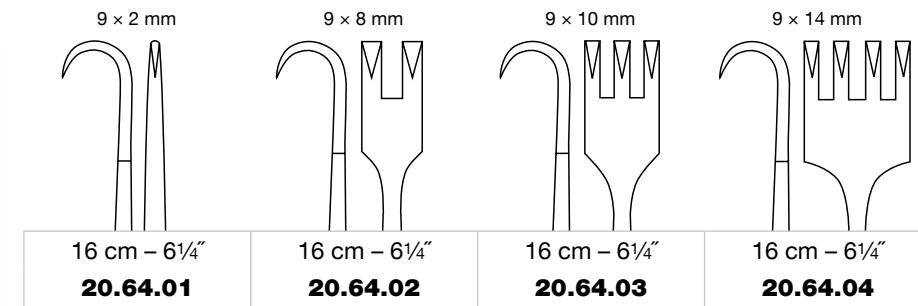
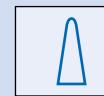
A09

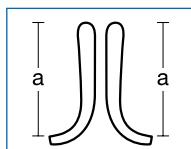
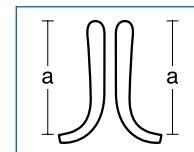
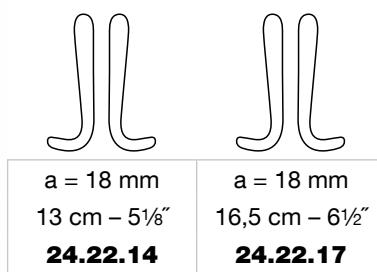
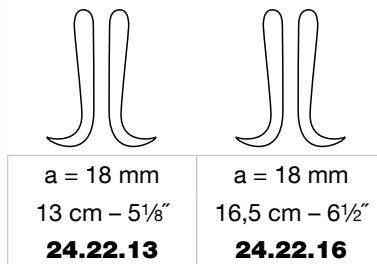
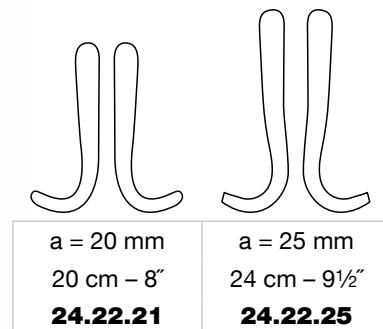
RETRACTORS



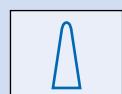


A09

Feine Wundhaken
Delicate Retractors
Separadores finos
Ecarteurs fins
Divaricatori delicatispitz
sharp
aguda
pointu
acutastumpf
blunt
roma
mousse
smussa

**Weitlaner****Weitlaner**

spitz
sharp
aguada
pointu
acuta



stumpf
blunt
roma
mousse
smussa



A09

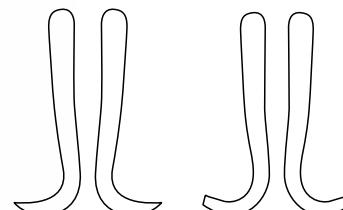
Wundspreizer
Self-retaining Retractors
Separadores autoestáticos
Ecarteurs autostatiques
Divaricatori autostatici

cm | inch

21
20
19
18
17
16
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21

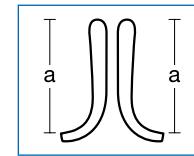


Weitlaner

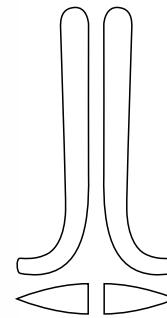


a = 25 mm
25,5 cm - 10"
24.22.26

a = 25 mm
25,5 cm - 10"
24.22.27



Miskimon



a = 33 mm
22 cm - 8 3/4"
24.28.10



spitz
sharp
aguda
pointu
acuta



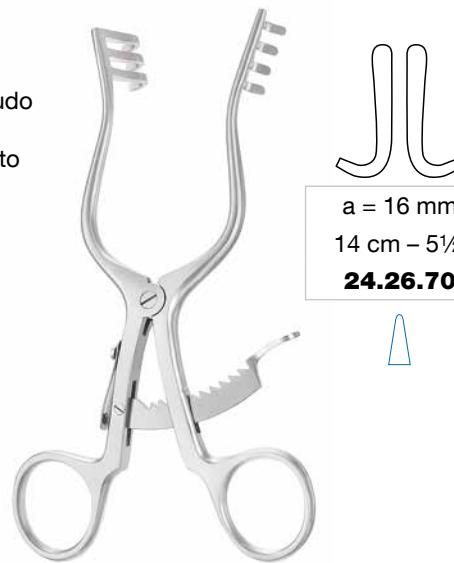
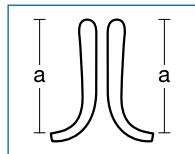
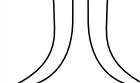
stumpf
blunt
roma
mousse
smussa



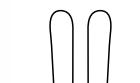
Wundspreizer
Self-retaining Retractors
Separadores autoestáticos
Ecarteur autostatiques
Divaricatori autostatici

A09

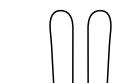
Kopfhautspreizer
Scalp retractor
Separador para el cuero cabelludo
Ecarteur pour le cuir chevelu
Divaricatore per il cuoio capelluto

**Contour**

a = 20 mm
20 cm - 8"
24.28.01



a = 20 mm
20 cm - 8"
24.28.03

**Adson**

a = 20 mm
19 cm - 7 1/2"
24.28.02

**Adson-Anderson**

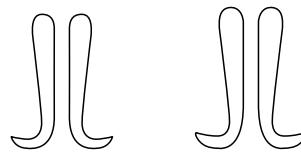
spitz
sharp
aguada
pointu
acuta



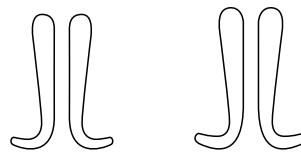
stumpf
blunt
roma
mousse
smussa



A09

Wundspreizer**Self-retaining Retractors**
Separadores autoestáticos
Ecarteurs autostatiques
Divaricatori autostatici**Weitlaner-Beckmann**

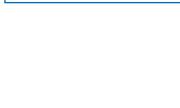
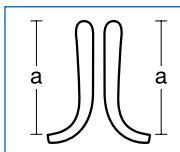
$a = 16 \text{ mm}$	$a = 17 \text{ mm}$
14,5 cm - 5 $\frac{3}{8}$ "	17 cm - 6 $\frac{3}{4}$ "



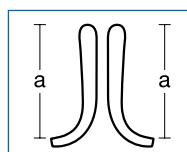
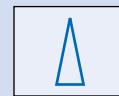
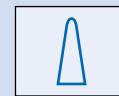
$a = 16 \text{ mm}$	$a = 17 \text{ mm}$
14,5 cm - 5 $\frac{3}{8}$ "	17 cm - 6 $\frac{3}{4}$ "



$a = 16 \text{ mm}$	$a = 17 \text{ mm}$
14,5 cm - 5 $\frac{3}{8}$ "	17 cm - 6 $\frac{3}{4}$ "

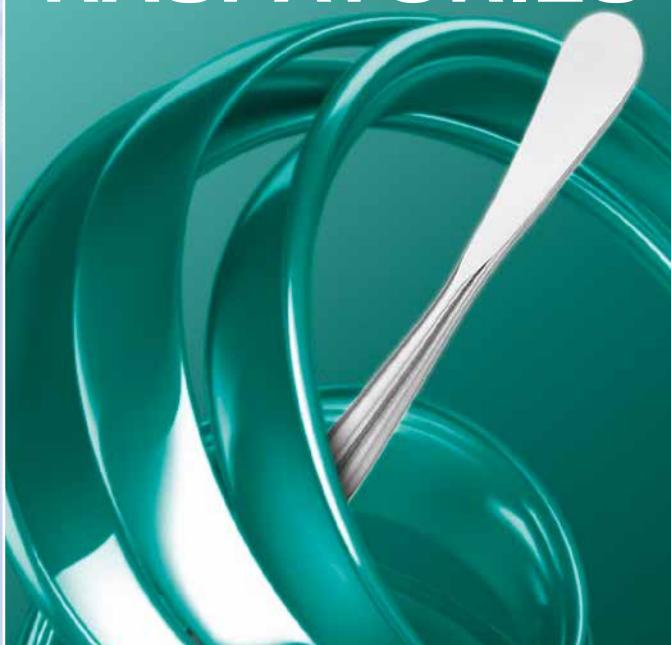


$a = 19 \text{ mm}$	$a = 19 \text{ mm}$
22 cm - 8 $\frac{3}{4}$ "	22 cm - 8 $\frac{3}{4}$ "

24.30.20**24.30.21****Weitlaner-Beckmann**spitz
sharp
aguda
pointu
acutastumpf
blunt
roma
mousse
smussa

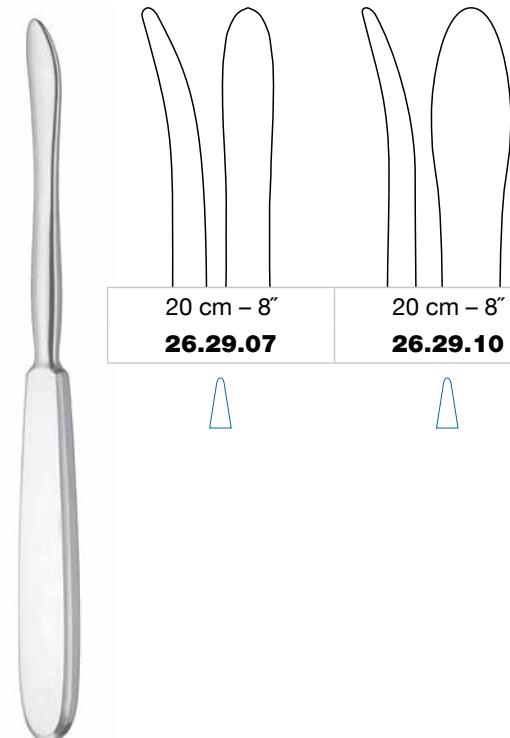
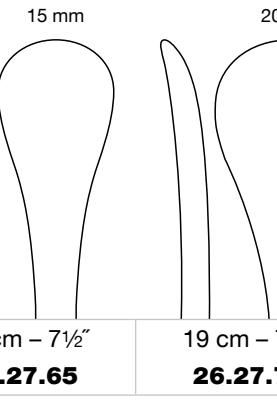
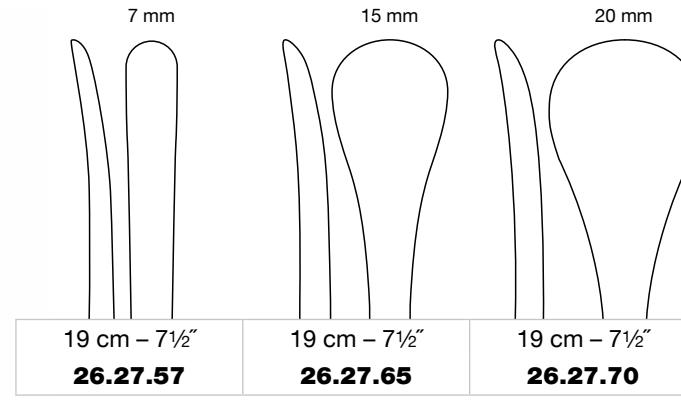
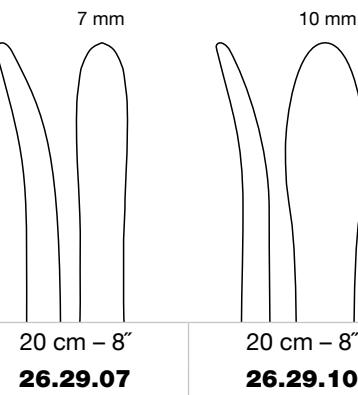


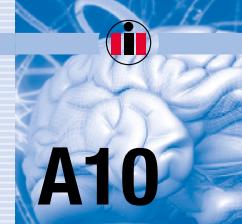
ELEVATORS AND RASPATORIES



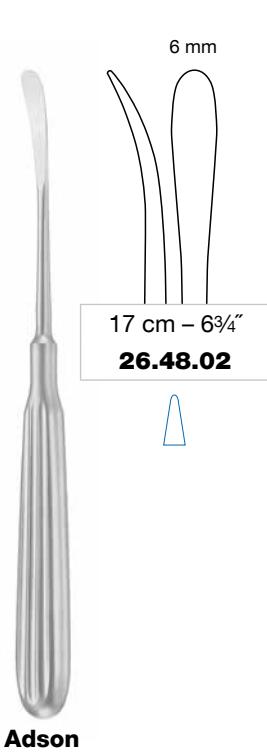
MICRO RASPATORIES

Mikro-Raspatorien (siehe Seite 190-192)
Micro raspatories (see page 190-192)
Micro legras (véase página 190-192)
Micro rugines (voir page 190-192)
Micro periostotomi (vedi pagina 190-192)

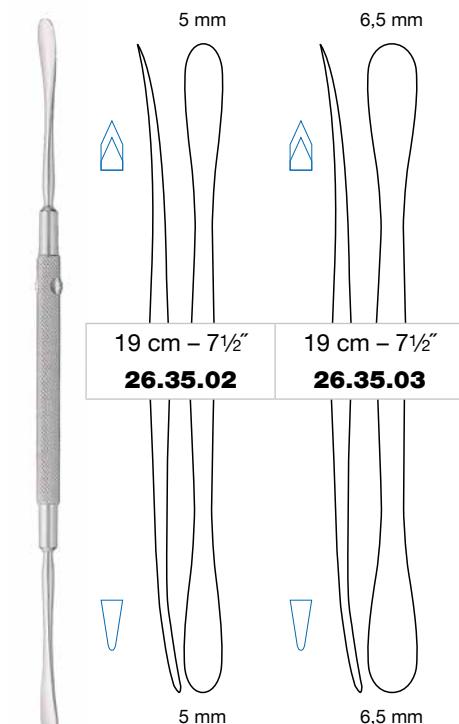
**A10****Elevatorien**
Elevators
Elevadores
Élevateurs
Elevatori**Hoen****Langenbeck**halbscharf
semi sharp
semi cortante
semi tranchant
semi taglientestumpf
blunt
roma
mousse
smussa



Elevatorien
Elevators
Elevadores
Élévateurs
Elevatori

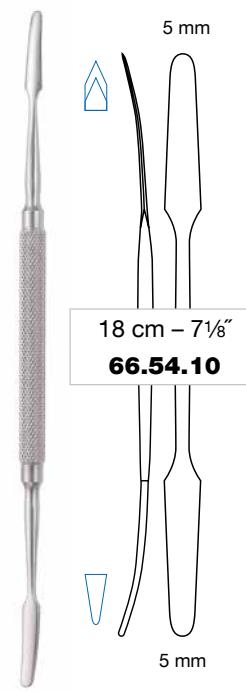


Adson



Freer

Septum-Elevatorium
Septum elevator
Elevador para el tabique nasal
Élévateur pour la cloison nasale
Elevatore per il setto nasale



Killian



scharf
sharp
cortante
tranchant
tagliente



stumpf
blunt
roma
mousse
smussa

**A10****Raspatoriens**
Raspatories
Legras
Rugines
Periostotomicm | inch
21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4**Freer**19 cm - 7½"
26.35.01

5 mm

5 mm

**Williger**16 cm - 6¼"
26.42.03

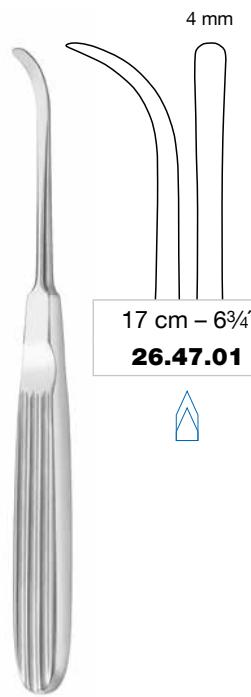
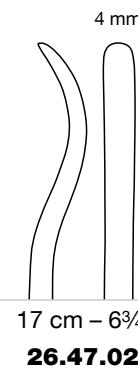
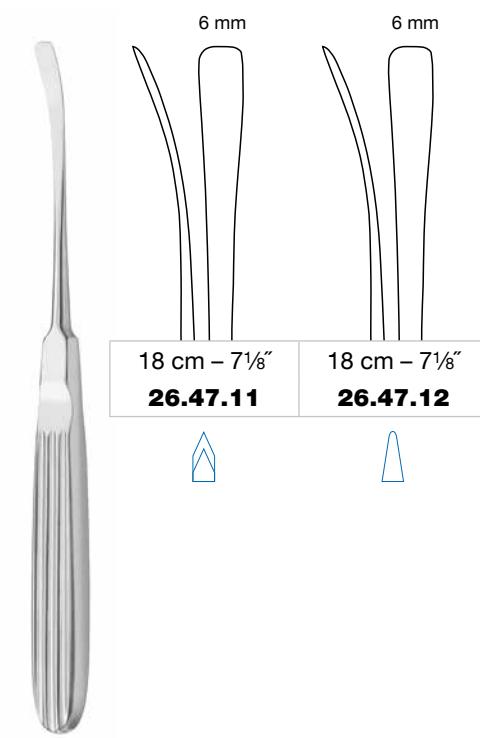
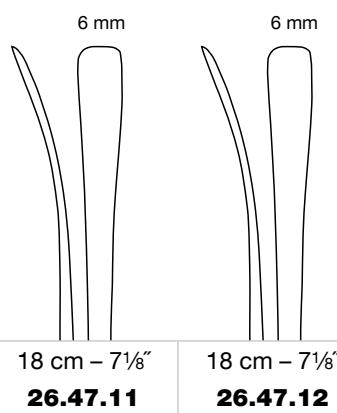
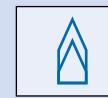
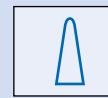
3 mm

16 cm - 6¼"
26.42.05

5 mm

16 cm - 6¼"
26.42.07

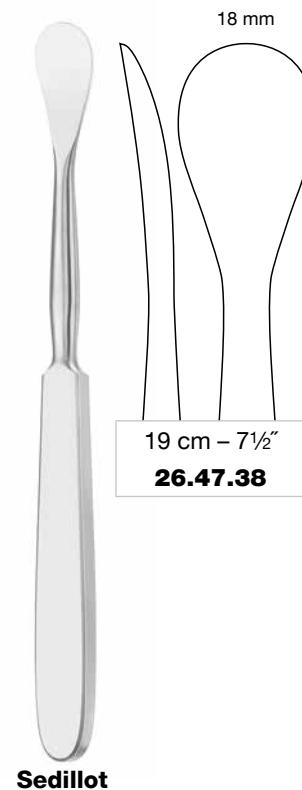
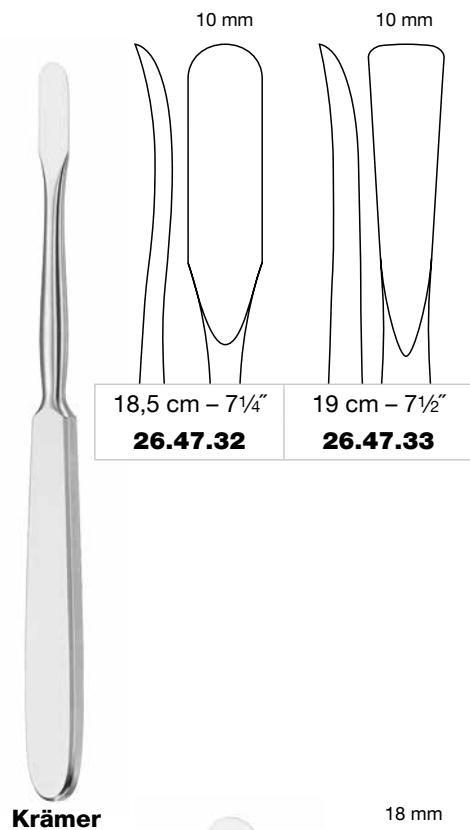
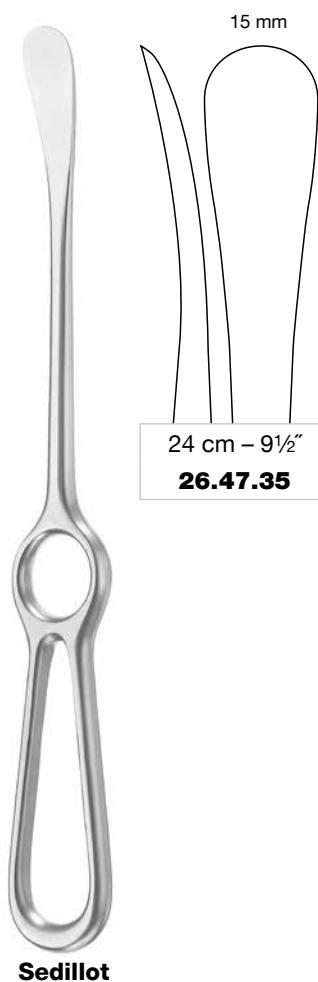
7 mm

**Mühling**17 cm - 6¾"
26.47.0117 cm - 6¾"
26.47.02**Caspar**18 cm - 7½"
26.47.1118 cm - 7½"
26.47.12scharf
sharp
cortante
tranchant
taglientestumpf
blunt
roma
mousse
smussa



MICRO RASPATORIES

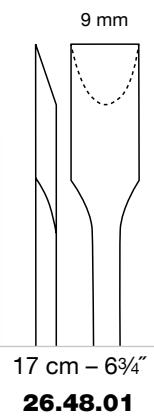
Mikro-Raspatorien (siehe Seite 190-192)
Micro raspatories (see page 190-192)
Micro legras (véase página 190-192)
Micro rugines (voir page 190-192)
Micro periostotomi (vedi pagina 190-192)



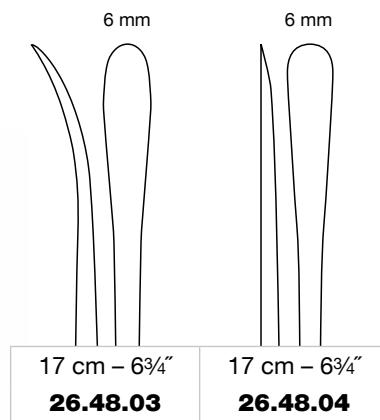


A10

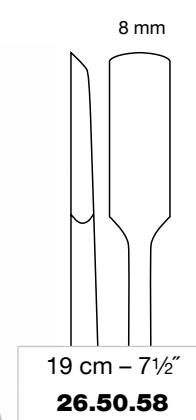
Raspatorien
Raspatories
Legras
Rugines
Periostotomi



Adson



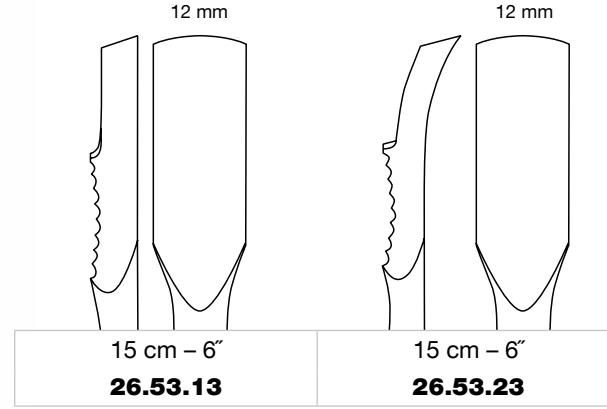
Adson



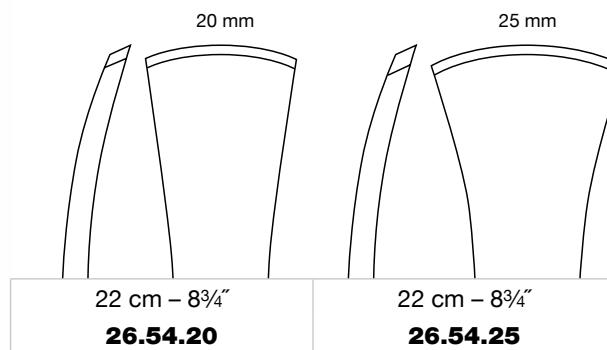
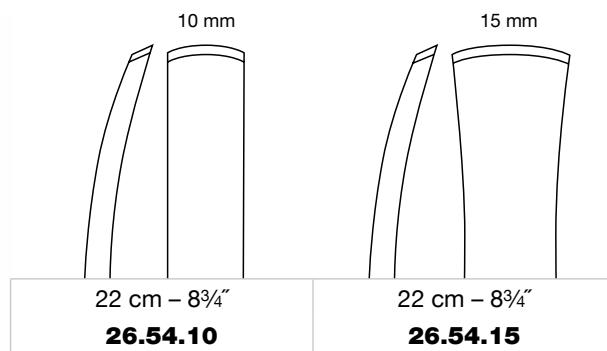
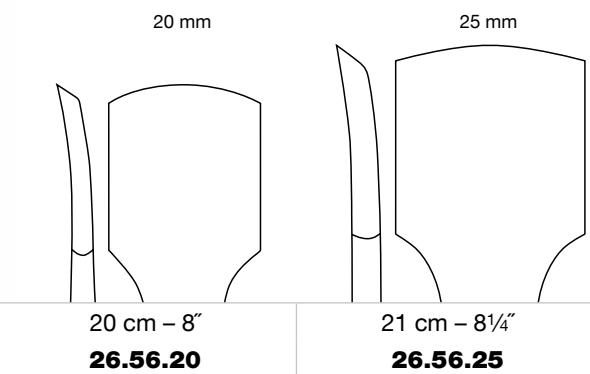
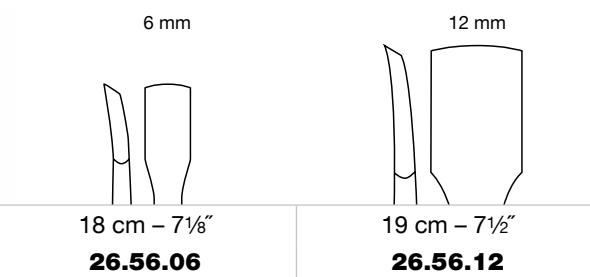
Olivecrona

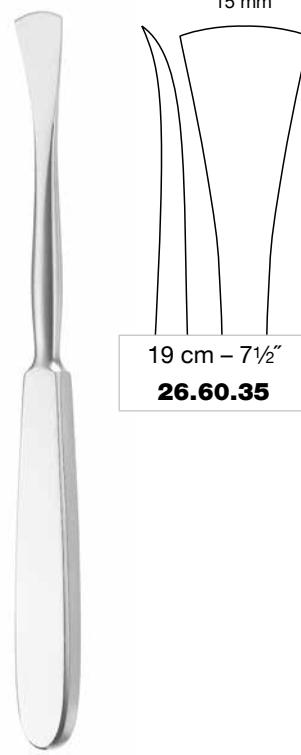
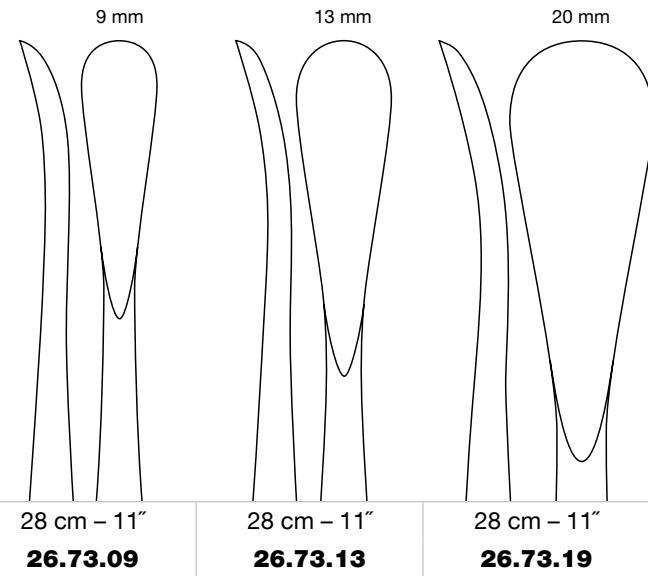
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4

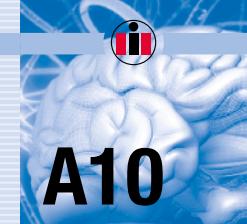
9
8
7
6
5
4
3
2
1
cm inch



Farabeuf

**Lambotte****Key**

**A10****Raspatorien**
Raspatories
Legras
Rugines
Periostotomi**Langenbeck****Cushing**



PROPYLUX



- ▶ Ein biokompatibler Kunststoff der neuesten Thermoplast-Generation
- ▶ Extrem formbeständig bei häufiger Autoklavierung
- ▶ A biocompatible plastic from the latest generation of thermoplastics
- ▶ Extremely high dimensional stability even when frequently autoclaved
- ▶ Un plástico biocompatible de la última generación de termoplásticos
- ▶ Extremadamente resistente a deformaciones en esterilizaciones en autoclave frecuentes
- ▶ Un plastique biocompatible de la toute dernière génération des thermoplastiques
- ▶ Extrêmement résistant aux déformations en cas de passages fréquents à l'autoclave
- ▶ Una plastica biocompatibile della più recente generazione di termoplastiche
- ▶ Estremamente resistente a deformazioni anche con trattamento frequente in autoclave

NOVOTEX



- ▶ Ein duroplastischer Kunststoff aus der Familie der Phenoplaste
- ▶ Sehr hart und bruchbeständig
- ▶ Thermosetting plastics of the range of phenol formaldehyde resins
- ▶ Very hard and break resistant
- ▶ Plástico termoendurecible de la familia de resina fenol-formaldehído
- ▶ Muy duro y resistente a la rotura
- ▶ Plastique thermodurcissable de la famille des résines phénol-formaldéhyde
- ▶ Très dur et résistant à la casse
- ▶ Materia plastica termoindurente della famiglia di resine fenoliche
- ▶ Molto duro e resistente alla rottura



3 mm

18,5 cm – 7 1/4"

26.64.13P**26.64.13**

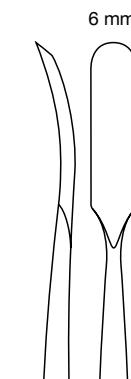
6 mm

18,5 cm – 7 1/4"

26.64.06P**26.64.06**

6 mm

18,5 cm – 7 1/4"

26.64.16P**26.64.16**

6 mm

18,5 cm – 7 1/4"

26.64.26P**26.64.26**

Kunststoffgriff (autoklavierbar bis 134 °C bei 3 bar)
Plastic handle (autoclavable up to 134 °C at 3 bar)

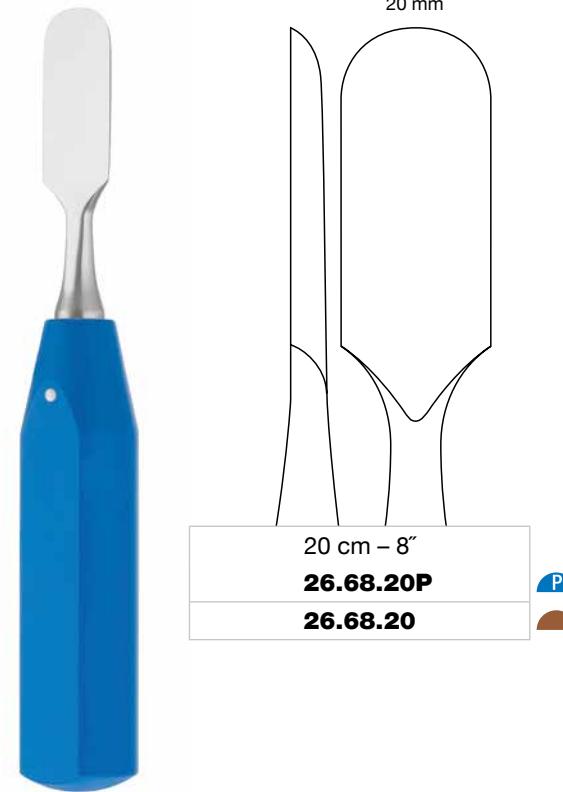
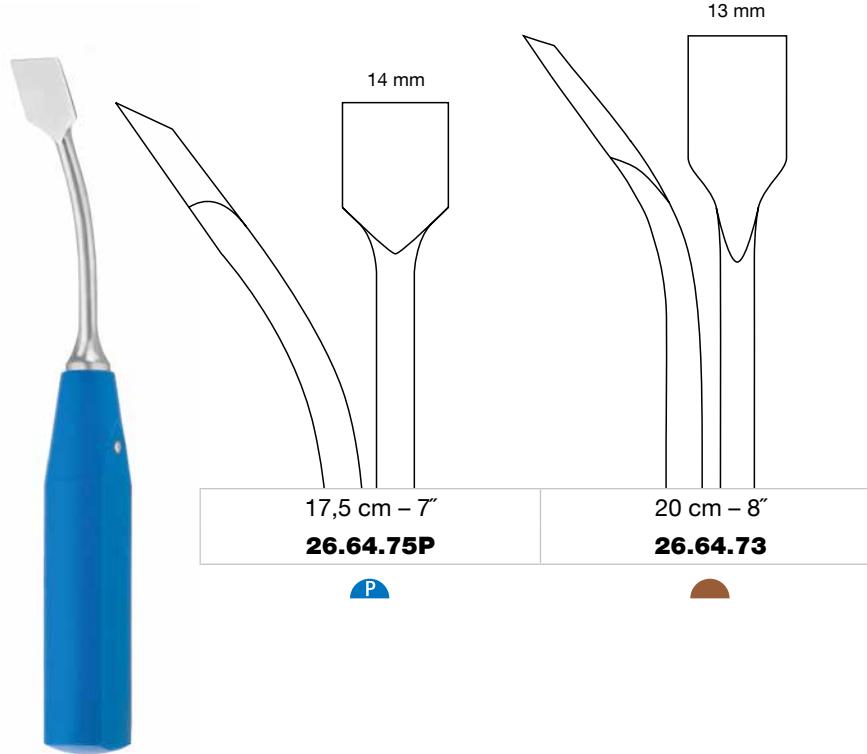
Mango de plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
Manche en plastique (autoclavable à 134 °C sous pression de 3 bars)
Manico di plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



A10

Raspatoriens
Raspatories
Legras
Rugines
Periostotomi

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch



PROPYLUX



NOVOTEX

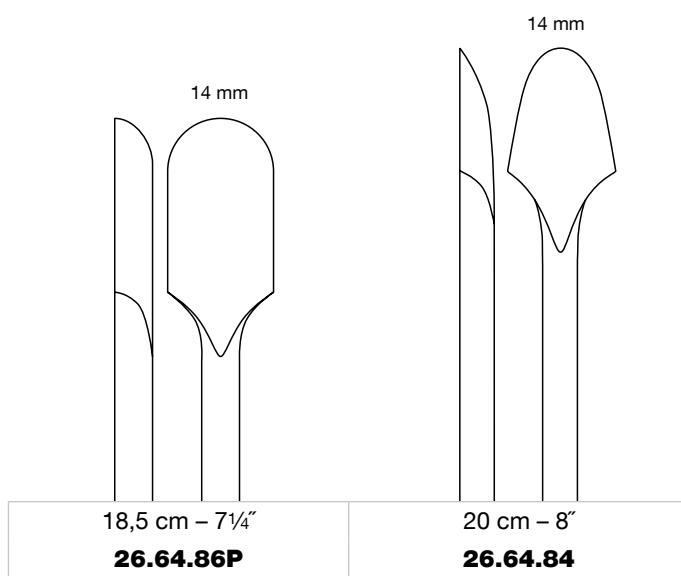
Kunststoffgriff (autoklavierbar bis 134 °C bei 3 bar)

Plastic handle (autoclavable up to 134 °C at 3 bar)

Mango de plástico (autoclavable hasta 134 °C bajo presión de 3 bar)

Manche en plastique (autoclavable à 134 °C sous pression de 3 bars)

Manico di plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



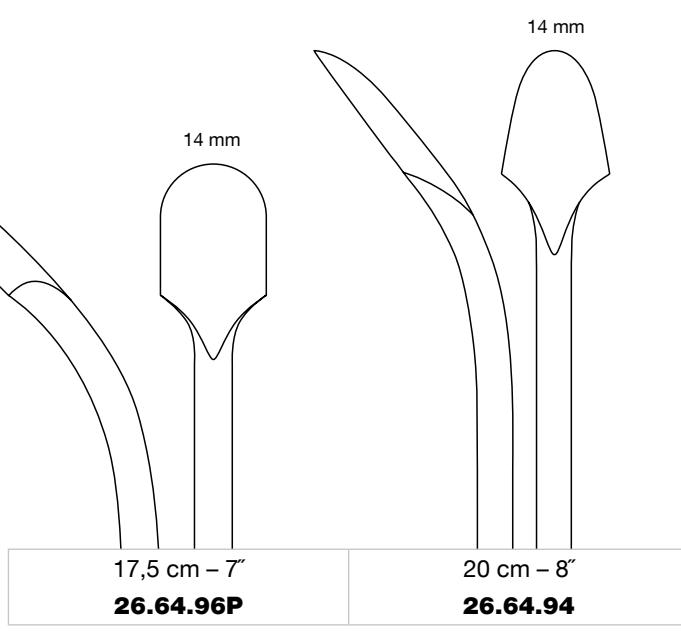
18,5 cm – 7 1/4"

26.64.86P

20 cm – 8"

26.64.84

P



17,5 cm – 7"

26.64.96P

20 cm – 8"

26.64.94

P



Kunststoffgriff (autoklavierbar bis 134 °C bei 3 bar)
Plastic handle (autoclavable up to 134 °C at 3 bar)

Mango de plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
Manche en plastique (autoclavable à 134 °C sous pression de 3 bars)
Manico di plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



A10

Raspatoriens
Raspatories
Legras
Rugines
Periostotomi



10 mm

25 cm - 10"

26.65.10P
26.65.10

13 mm

25 cm - 10"

26.65.13P
26.65.13

19 mm

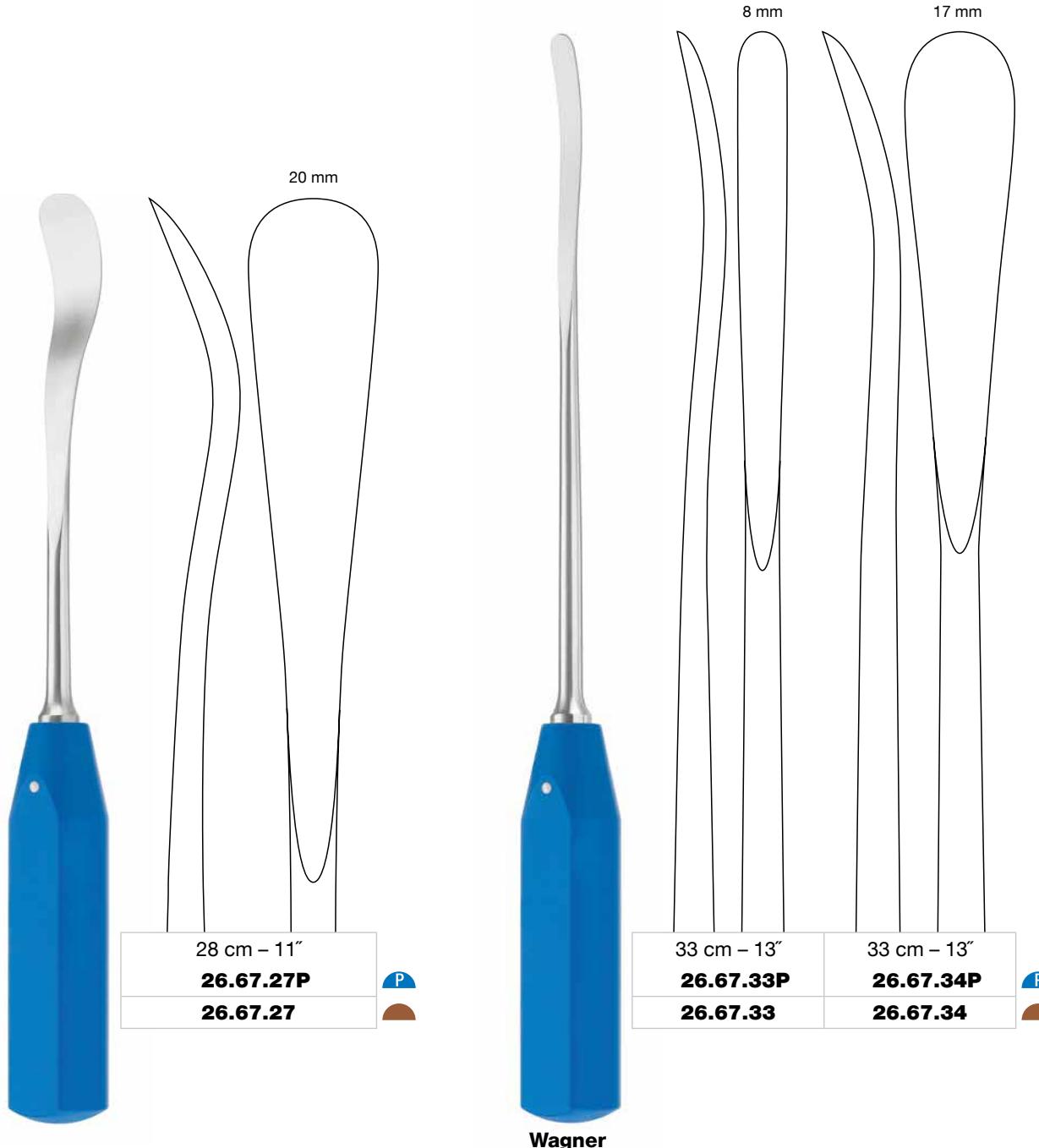
25 cm - 10"

26.65.19P
26.65.19

25 mm

25 cm - 10"

26.65.25P
26.65.25**Cobb**Kunststoffgriff (autoklavierbar bis 134 °C bei 3 bar)
Plastic handle (autoclavable up to 134 °C at 3 bar)Mango de plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
Manche en plastique (autoclavable à 134 °C sous pression de 3 bars)
Manico di plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)halbscharf
semi sharp
semi cortante
semi tranchant
semi tagliente



Kunststoffgriff (autoklavierbar bis 134 °C bei 3 bar)
Plastic handle (autoclavable up to 134 °C at 3 bar)
Mango de plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
Manche en plastique (autoclavable à 134 °C sous pression de 3 bars)
Manico di plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)

www.medicon.de

Einen Überblick über das MEDICON-Gesamtprogramm finden Sie im Internet.

For general information on the complete MEDICON product range please refer to the Internet.

Una vista general de la gama completa de productos MEDICON puede encontrar en el Internet.

Pour une vue d'ensemble de la gamme complète des produits MEDICON nous vous prions de bien vouloir vous référer sur notre site Internet.

Una visione generale della completa gamma dei prodotti MEDICON la trovate nell'Internet.





2 mm



14 cm - 5½"
30.05.14



Friedmann

2 mm



14 cm - 5½"
30.76.13



Kleinert-Kutz

2 mm



17 cm - 6¾"
30.71.02

3 mm



17 cm - 6¾"
30.71.03

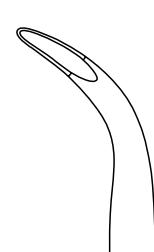


Beyer

2 mm



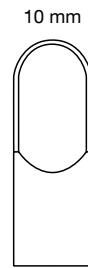
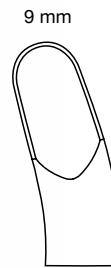
17 cm - 6¾"
30.76.17

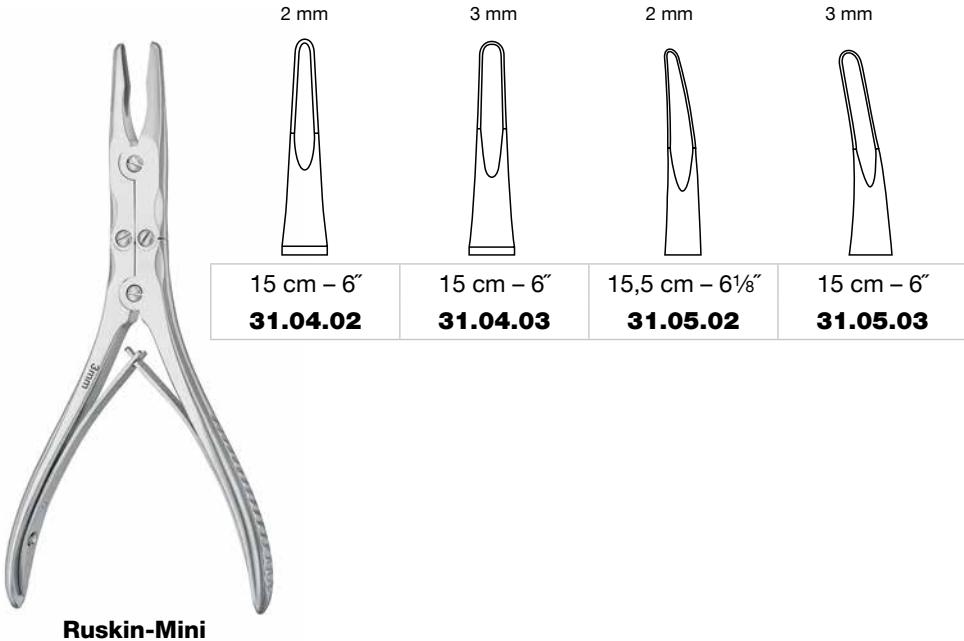


17 cm - 6¾"
30.76.18



Stellbrink

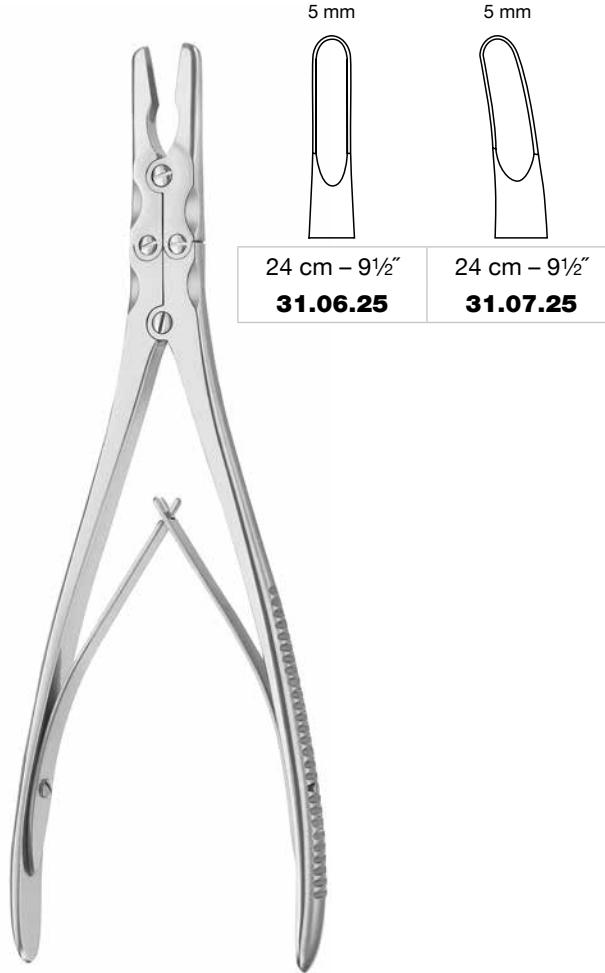
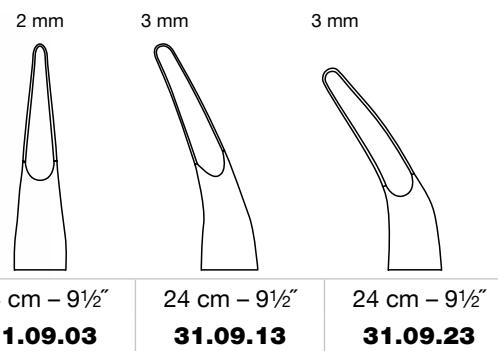
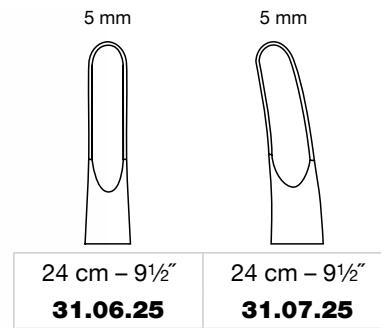
**A11****Hohlmeißelzangen**
Bone Rongeurs
Pinzas gubias
Pinces-gouges
Pinze sgorbiecm | inch
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1**Luer**18 cm - 7 $\frac{1}{8}$ "
30.52.1718 cm - 7 $\frac{1}{8}$ "
30.52.18**Luer**18 cm - 7 $\frac{1}{8}$ "
30.53.18**Bacon**20 cm - 8"
30.54.70**Lempert**19 cm - 7 $\frac{1}{2}$ "
30.76.1919 cm - 7 $\frac{1}{2}$ "
30.76.29



Ruskin-Mini



Ruskin

**A11****Hohlmeißelzangen**
Bone Rongeurs
Pinzas gubias
Pinces-gouges
Pinze sgorbie**Smith-Petersen****Ruskin**



Beyer



4 mm
18 cm - 7 1/8"
31.11.04



Zaufal-Jansen



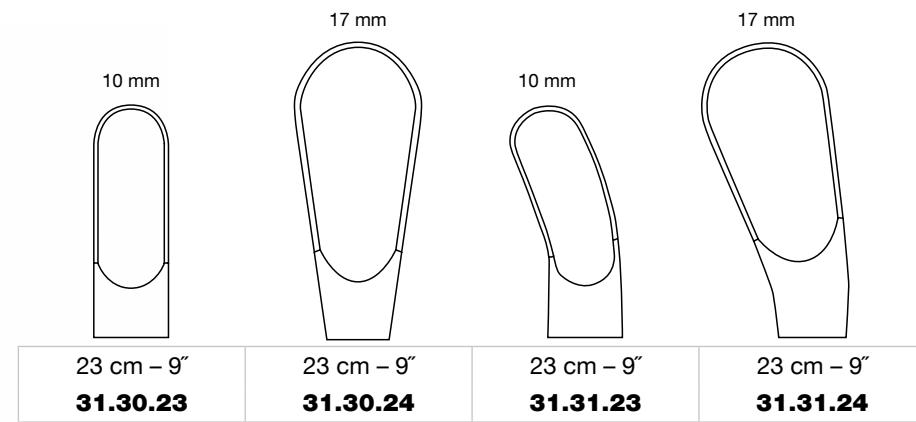
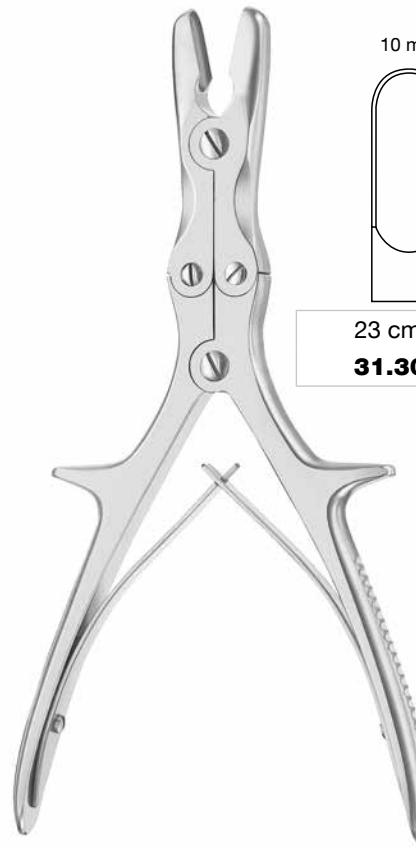
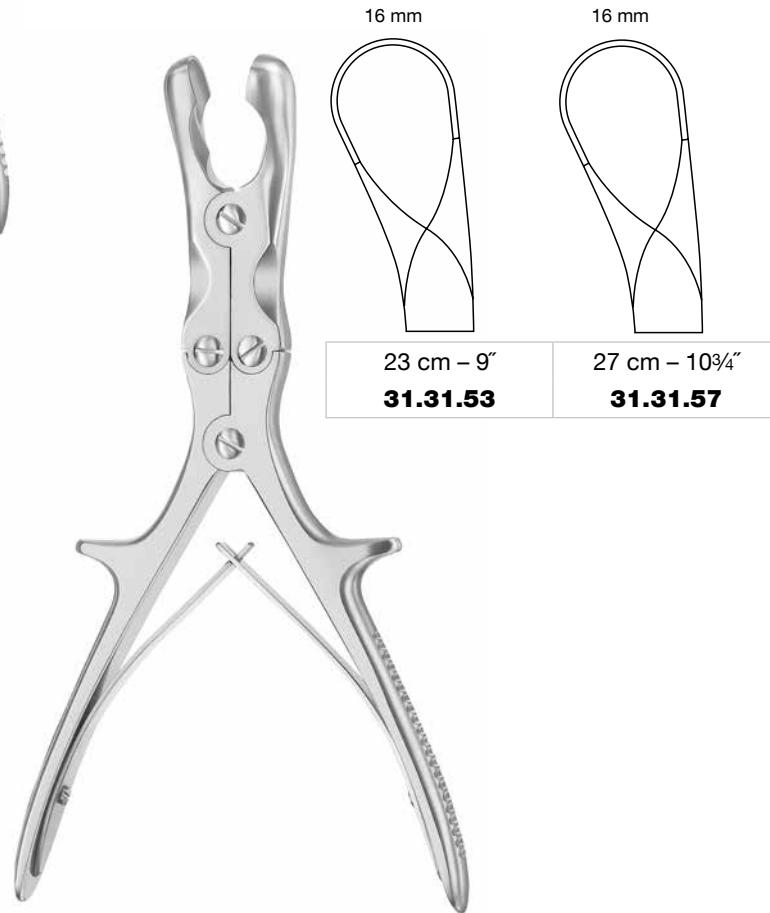
5 mm
18 cm - 7 1/8"
31.11.05

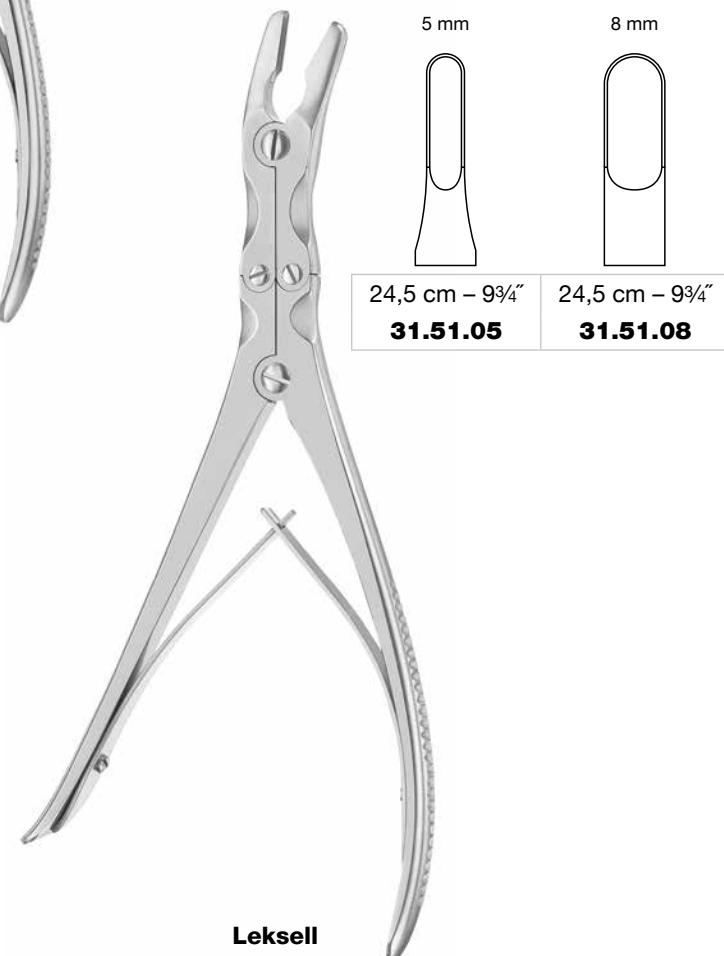


Marquardt



3 mm
20 cm - 8"
31.11.13

**A11****Hohlmeißelzangen**
Bone Rongeurs
Pinzas gubias
Pinces-gouges
Pinze sgorbiecm | inch
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1**Stille-Luer****Semb-Stille**

**Leksell****Leksell**

**A11****Hohlmeißelzangen**
Bone Rongeurs
Pinzas gubias
Pinces-gouges
Pinze sgorbiecm | inch
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1**Stille**

7 mm

23 cm - 9"
31.31.83**Leksell**

3 mm

36 cm - 14 1/8"
31.54.03

5 mm

36 cm - 14 1/8"
31.54.05

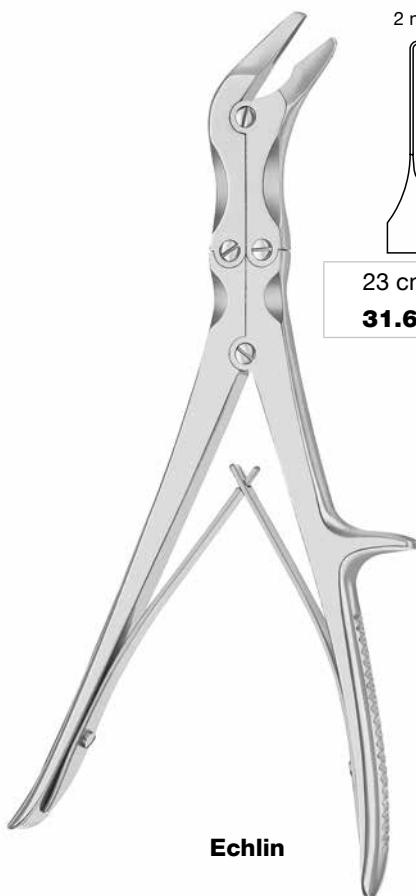
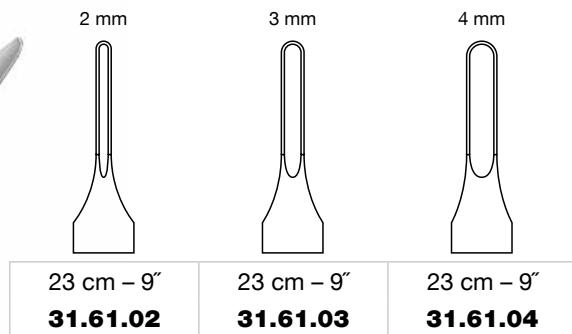
8 mm

36 cm - 14 1/8"
31.54.08

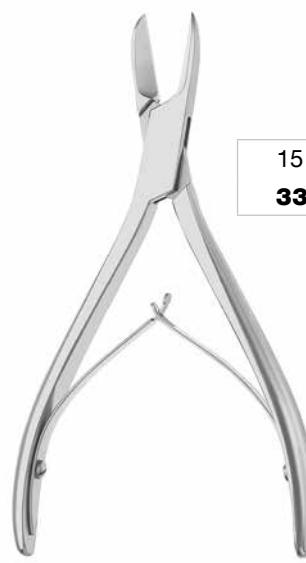


Hohlmeißelzangen und Knochensplitterzange
Bone Rongeurs and Bone Cutting Forceps
Pinzas gubias y pinza cortante para huesos
Pince-gouges et pince coupante à os
Pinze sgorbie e pinza ossivora

A11

**Echlin****Liston-Key**

Knochensplitterzange
Bone cutting forceps
Pinza cortante para huesos
Pince coupante à os
Pinza ossivora

**A11****Knochensplitterzangen**
Bone Cutting Forceps
Pinzas cortantes para huesos
Pince coupante à os
Pinze ossivorecm | inch
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1**Littauer-Liston**15 cm - 6"
33.02.15**Ruskin-Liston**18 cm - 7 1/8"
33.56.18 18 cm - 7 1/8"
33.57.18**McIndoe**17 cm - 6 3/4"
33.59.17**McIndoe**18 cm - 7 1/8"
33.58.18 18 cm - 7 1/8"
33.59.18



Instrumente für die kraniale Neurochirurgie
Instruments for Cranial Neurosurgery
Instrumentos para neurocirugía craneal
Instruments pour la neurochirurgie crânienne
Strumenti per la neurochirurgia cranica

B

neuro
CRANIALIS

Instrumente für die kraniale Neurochirurgie
Instruments for Cranial Neurosurgery
Instrumentos para neurocirugía craneal
Instruments pour la neurochirurgie crânienne
Strumenti per la neurochirurgia cranica

B01	Kopfhalterungssysteme Head rest systems Sistemas de fijación craneal Systèmes de maintien crânien Sisteme di fissazione cranica	131
B02	Kopfhautklammern Scalp clips Clips hemostáticos para cuero cabelludo Clips hémostatiques pour cuir chevelu Clip emostatiche per cuoio capelluto	139
B03	Instrumente für die Trepanation und Kraniotomie Instruments for the trepanation and craniotomy Instrumentos para la trepanación y craneotomía Instruments pour la trépanation et craniotomie Strumenti per la trapanazione e craniotomia	143
B04	Stanzen Rongeurs Pinzas saca-bocadas Pinces emporte-pièce Laminotomi	153
B05	Haken und Dissektoren Hooks and dissectors Ganchos y disectores Crochets et dissecteurs Uncini e dissettori	165
B06	Diamantmesser und Mikro-Instrumente Diamond knives and micro instruments Cuchillos de diamante y micro instrumentos Couteau de diamant et micro-instruments Bisturi diamantati e strumenti micro	185
B07	Hirnspatel und Hirnspatelhalter Brain spatulas and brain spatula retractors Espátulas cerebrales y separadores para espátulas cerebrales Spatules cérébrales et ecarteurs pour des spatules cérébrales Spatole cerebrali e divisoriori cerebrale	199
B08	Zerebrovaskuläre Clips Cerebrovascular clips Clips cerebrovascular Clips vasculaires cérébraux Clip cerebrovascolari	207
B09	Neuro-Fixationssystem Neuro-fixation system Sistema para neuro-fijación Système de neuro-fixation Sistema di neuro-fissaggio	233
B10	Instrumente für die Hypophysektomie Instruments for hypophysectomy Instrumentos para la hipofisectomía Instruments pour l'hypophysectomie Strumenti per ipofisectomia	251
B11	Druckluftmotorensystem Pneumatic high speed system Sistema de motor neumático Système de moteur pneumatique Sistema motore pneumatico	265



Kopfhalterungssysteme

Head Rest Systems

Sistemas de fijación craneal

Systèmes de maintien crânien

Sisteme di fissazione cranica

B01

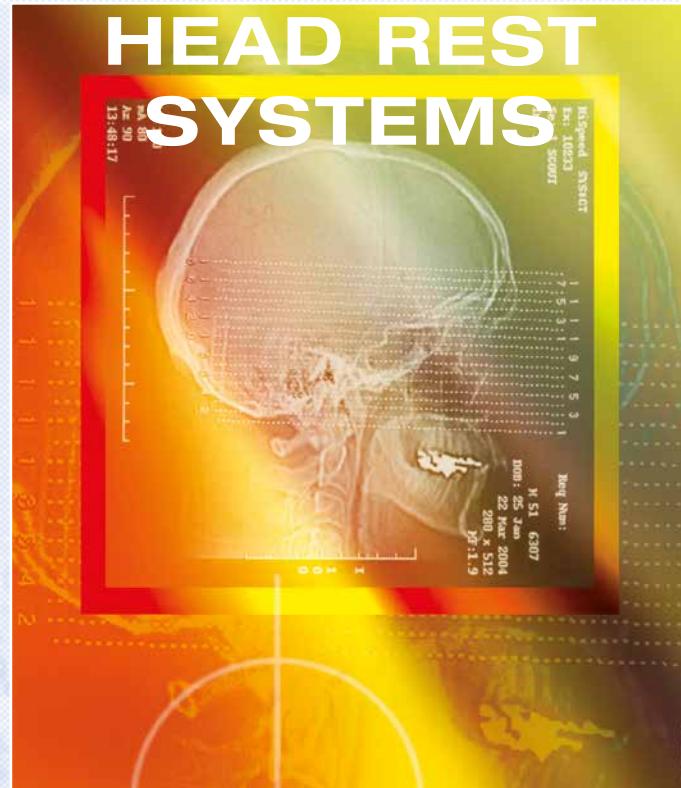
Die Medicon Schädelklemmen wurden entsprechend den speziellen Anforderungen im OP entwickelt. In Verbindung mit der Grundeinheit bietet das innovative Kopfhalterungssystem ein Maximum an Sicherheit und Stabilität.

The Medicon head rests were developed to meet the special demands in the operating theatre. In combination with the basic unit this innovative head rest system offers a maximum of safety and stability.

Los sujetadores craneales fueron concebidos de Medicon para responder a las exigencias especiales en los quirófanos. En combinación con la unidad básica el sistema innovador de fijación craneal presenta un máximo de seguridad y estabilidad.

Le système de maintien crânien de Medicon a été développé conformément aux demandes des chirurgiens. Notre système novateur de maintien crânien en combinaison avec l'unité de base offre le maximum de stabilité et de sécurité.

Il sistema di fissazione cranica è stato sviluppato in base alle esigenze specifiche della sala operatoria. Grazie all'unità di base, l'innovativo sistema di fissazione cranica offre maggior sicurezza e stabilità.

13:48:17
13. 38

entwickelt in Zusammenarbeit mit:
developed in cooperation with:
desarrollado en colaboración con:
développée en collaboration avec:
sviluppato in collaborazione con:

Prof. Dr. Sörensen
Neurochirurgische Klinik, Würzburg



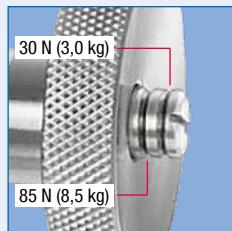
B01

FiXit

HEAD REST SYSTEM



Spielfreie Schraubverbindung
Zero-backlash screw assembly
Conexión de tornillo sin juego
Assemblage vissé sans jeu
Connessione a vite senza gioco



Druckkraftanzeige
Pressing power indicator
Indicación de la fuerza de compresión
Indicateur de la pression
Indicatore della forza di compressione



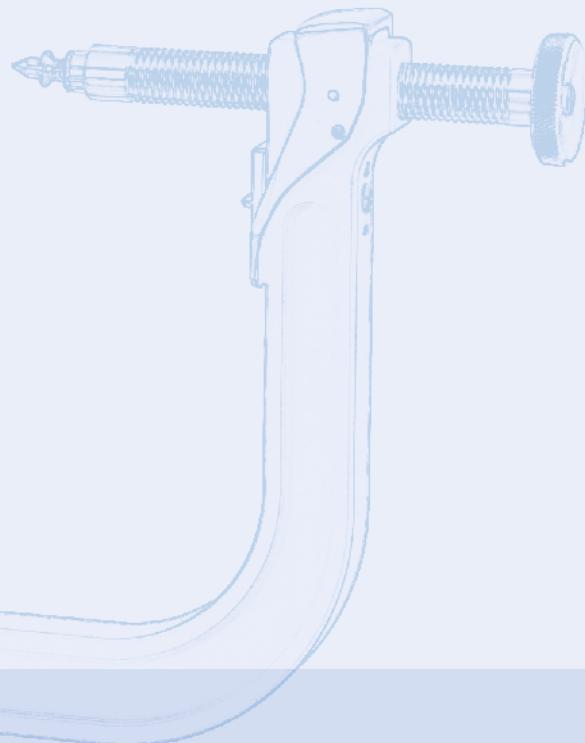
Doppeltgesicherte Verriegelung
Double-secured locking
Cierre de doble seguridad
Un seul verrouillage deux fois plus sûr
Chiusura con doppia sicurezza



Verschleißfreier Gewindestift
Wear-resistant thread insert
Inserto de rosca sin desgaste
Filetage sans usure
Inserto di filettatura non usurabile



Sehr gute Einhandbedienung
Excellent one-hand operation
Muy bueno con una sola mano
Très bien d'une seule main
Molto buona con una sola mano





Satz (klein)
Set (small)
Juego (pequeño)
Jeu (petit)
Set (piccolo)

300 x 180 mm

57.70.60

Satz bestehend aus: Set consisting of: Juego compuesto por: Jeu composé de: Set composto da:	57.70.00 Head rest (small) with fixing screw	1x
	57.70.12 Skull pin holder (87 mm)	1x
	57.70.40 Skull pin (packing unit 5 pieces)	1x



Satz (groß)
Set (large)
Juego (grande)
Jeu (grand)
Set (grande)

340 x 200 mm

57.70.50

Satz bestehend aus: Set consisting of: Juego compuesto por: Jeu composé de: Set composto da:	57.70.02 Head rest (small) with fixing screw	1x
	57.70.16 Skull pin holder (105 mm)	1x
	57.70.44 Skull pin (packing unit 5 pieces)	1x

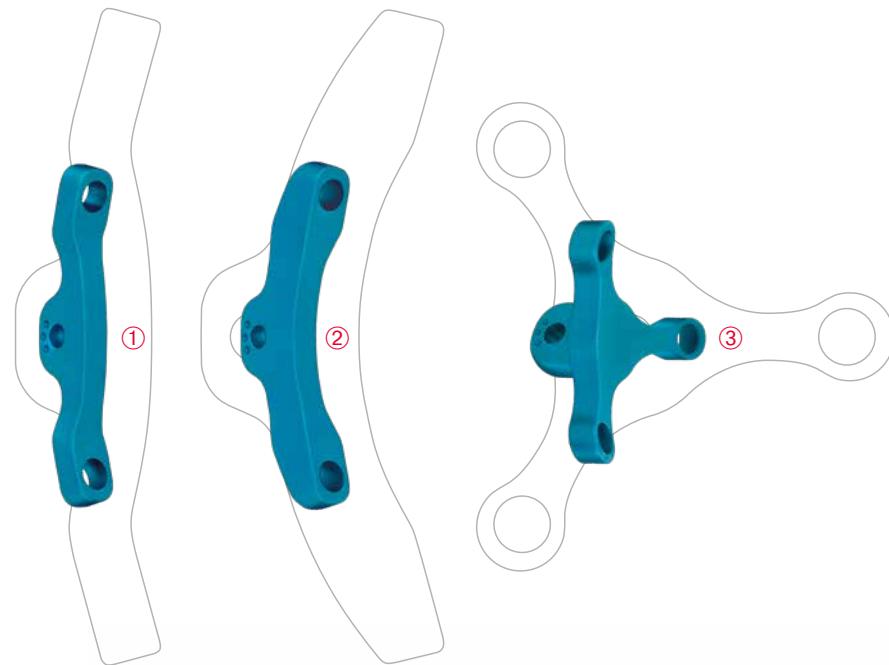


B01

Kopfhalterungssystem (klein)
Head Rest System (Small)
Sistema de fijación craneal (pequeño)
Système de maintien crânien (petit)
Sistema di fissazione cranica (piccolo)

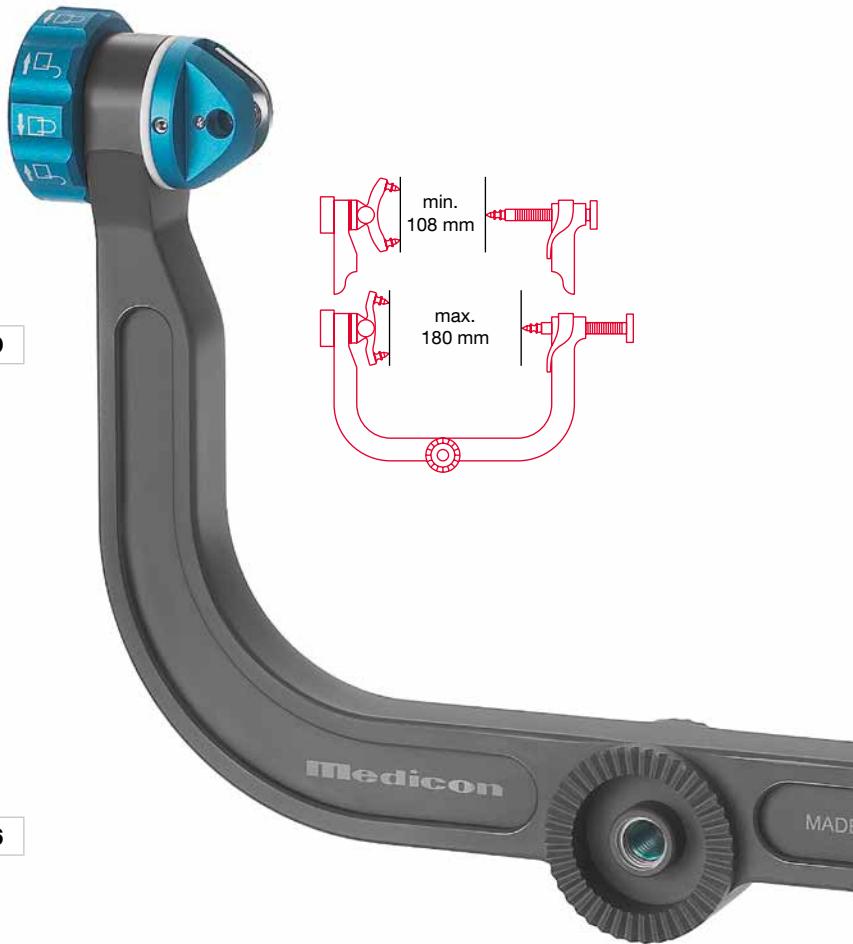
Dornaufnahmen
Skull pin holders
Soportes para pernos
Porte-épines
Braccetti per punte

①	87 mm	57.70.10
②	87 mm	57.70.12
③	62 mm	57.70.14
④	67 mm	57.70.20
⑤	62 mm	57.70.24
⑥	37 mm	57.70.30
⑦	34 mm	57.70.34



Schädelklemme (klein) mit Fixierschraube
Head rest (small) with fixing screw
Fijador craneal (pequeño) con tornillo de fijación
Maintien crânien (petit) avec vis de fixation
Testiera (piccolo) con vite di fissaggio

Sörensen 57.70.00



Fixierschraube
Fixing screw
Tornillo de fijación
Vis de fixation
vite di fissaggio



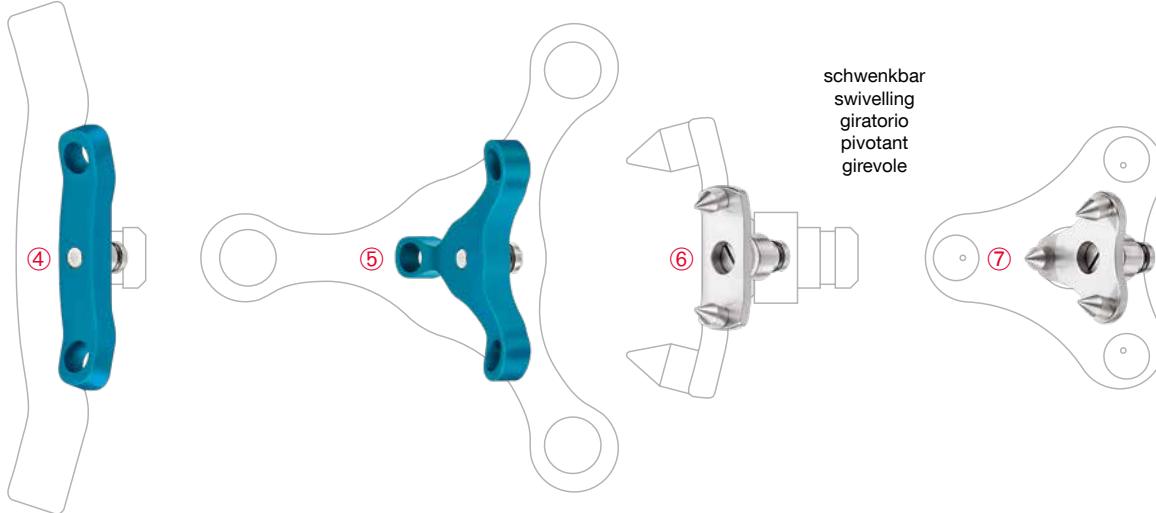
40 mm **57.70.06**

cm | inch



Kopfhalterungssystem (klein)
Head Rest System (Small)
Sistema de fijación craneal (pequeño)
Système de maintien crânien (petit)
Sistema di fissazione cranica (piccolo)

B01



schwenkbar
swivelling
giratorio
pivotant
girovole



Dorne (wenig traumatisierend)
Skull pins (hardly traumatic)
Pernos (poco traumática)
Epines (peu traumatisante)
Punte (minimamente traumática)



25 mm **57.70.40** P₅ Ti



25 mm **57.70.42** P_{12x3}

(X) **STERILE**

Verpackungseinheit 12 Pack mit je 3 Stück, steril
Packing unit 12 packages of 3 pieces each, sterile
Caja con 12 paquetes incluyendo 3 piezas, estériles
Emballage de 12 paquets comportant chacun 3 pièce, stériles
Scatola da 12 confezioni da 3 pezzi, sterili



Einmalprodukt
Single use product
Producto para un solo uso
Produit à usage unique
Prodotto monouso



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



Titan
Titanium
Titánio
Titane
Titano

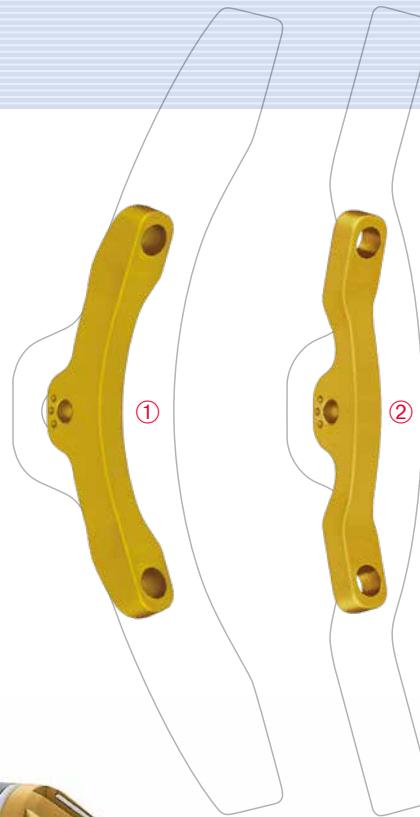


B01

Kopfhalterungssystem (groß)
Head Rest System (Large)
Sistema de fijación craneal (grande)
Système de maintien crânien (grand)
Sistema di fissazione cranica (grande)

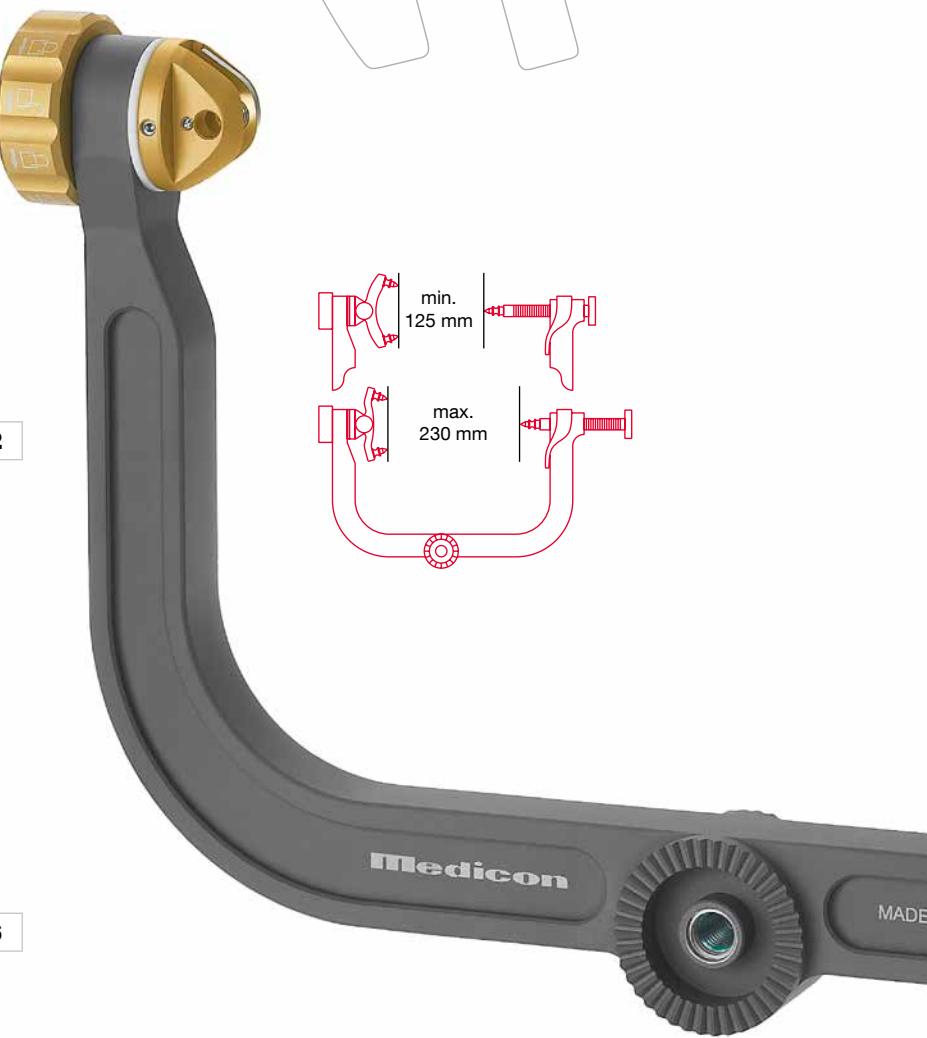
Dornaufnahmen
Skull pin holders
Soportes para pernos
Porte-épines
Braccetti per punte

①	105 mm	57.70.16
②	105 mm	57.70.18



Schädelklemme (groß) mit Fixierschraube
Head rest (large) with fixing screw
Fijador craneal (grande) con tornillo de fijación
Maintien crânien (grand) avec vis de fixation
Testiera (grande) con vite di fissaggio

Sörensen 57.70.02



Fixierschraube
Fixing screw
Tornillo de fijación
Vis de fixation
Vite di fissaggio



40 mm **57.70.06**



Kopfhalterungssystem (groß)
Head Rest System (Large)
Sistema de fijación craneal (grande)
Système de maintien crânien (grand)
Sistema di fissazione cranica (grande)



1:1



25 mm **57.70.44** P₅ Ti

Dorne (wenig traumatisierend)
Skull pins (hardly traumatic)
Pernos (poco traumática)
Epines (peu traumatisante)
Punte (minimamente traumática)

1:1



25 mm **57.70.46** P_{12x3} STERILE

Verpackungseinheit 12 Pack mit je 3 Stück, steril
Packing unit 12 packages of 3 pieces each, sterile
Caja con 12 paquetes incluyendo 3 piezas, estériles
Emballage de 12 paquets comportant chacun 3 pièces, stériles
Scatola da 12 confezioni da 3 pezzi, sterili



IN GERMANY



Einmalprodukt
Single use product
Producto para un solo uso
Produit à usage unique
Prodotto monouso



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



Titan
Titanium
Titánio
Titane
Titano



B01

Adapter für Grundeinheit
Connectors for Basic Unit
Adaptadores per unidad básica
Adaptateurs pour unité de base
Adattatori per unità die base

Verbindungsadapter
 Connector for adaption
 Adaptador per conexión
 Adaptateur pour connexion
 Adattatore per raccordo

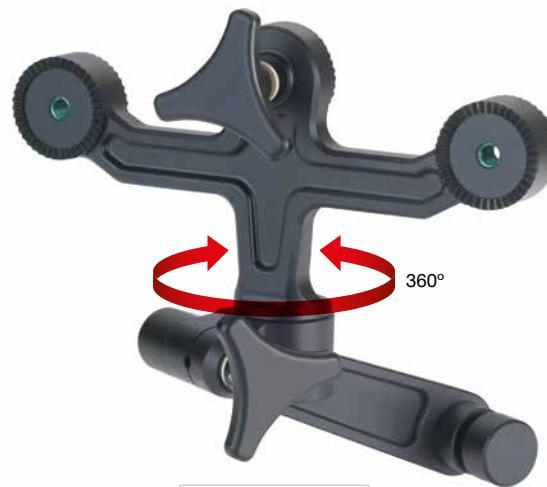
zur Adaption der Schädelklemme mit der Grundeinheit
 to connect head rest to basic unit
 para la conexión del cabezal con el unidad básica
 pour connexion du maintien crânien avec unité de base
 per il raccordo della testiera con l'unità di base



57.70.65

Universaladapter
 Universal connector
 Adaptador universal
 Adaptateur universel
 Adattatore universale

zur Adaption der Schädelklemme mit der
 Grundeinheit und weiterem operativen Zubehör
 to connect head rest to basic unit as well as to
 further operative accessories
 para la conexión del cabezal con el unidad básica y
 más accesorios operatorios
 pour connexion du maintien crânien avec unité de
 base et accessoires supplémentaires
 adattatore universale per il raccordo della testiera
 con l'unità di base e ulteriori accessori



57.70.66

451.02.17



Unser komplettes FiXiT-Programm finden Sie in unserem Sonderprospekt.
 For our complete line of FiXiT, see our special brochure.
 El programa completo de FiXiT se encuentra en nuestro folleto especial.
 Vous trouverez notre programme complet de FiXiT dans notre brochure spécial.
 Troverete il nostro programma completo di FiXiT nel nostro depliant speciale.

Biokompatibles Material
Atraumatische Verzahnung
Zuverlässige Blutstillung

Biocompatible material
Atraumatic dovetailing
Reliable hemostasis

Material biocompatible
Dentado atraumático
Hemostasis fiable

Matériel biocompatible
Denture atraumatique
L'hémostase éprouvée

Materiale biocompatibile
Dentellatura atraumatica
Emostasi affidabile



**Kopfhautklammer und Zange****Scalp Clip and Forceps****Clip hemostático para cuero cabelludo y pinza****Clip hémostatique pour cuir chevelu et pince****Clip emostatiche per cuoio capelluto e pinza**

SCALP CLIPS
RANEY
shark

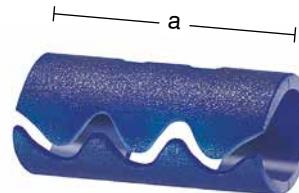
Kopfhautklammer aus Kunststoff

Plastic scalp clip

Clip hemostático de plástico para cuero cabelludo

Clip hémostatique en plastique pour cuir chevelu

Clip emostatiche in plastica per cuoio capelluto



2:1

Raney

a = 16 mm

57.85.03A**P** [20x10]

Anlege- und Entnahmzange
Applying and removing forceps
Pinza para aplicar y quitar
Pince à appliquer et retirer
Pinza per applicare e togliere



16 cm - 6 1/4"

57.85.07

Einmalprodukt
Single use product
Producto para un solo uso
Produit à usage unique
Prodotto monouso



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi

**Kopfhautklammer und Zange****Scalp Clip and Forceps****Clip hemostático para cuero cabelludo y pinza****Clip hémostatique pour cuir chevelu et pince****Clip emostatiche per cuoio capelluto e pinza****B02**

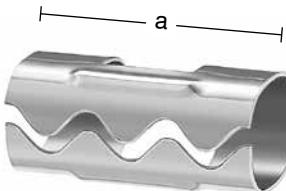
Kopfhautklammer aus Stahl

Steel scalp clip

Clip hemostático de acero para cuero cabelludo

Clip hémostatique en acier pour cuir chevelu

Clip emostatiche in acciaio per cuoio capelluto



2:1

Raney

a = 16 mm

57.85.01**P**

Anlege- und Entnahmezange

Applying and removing forceps

Pinza para aplicar y quitar

Pince à appliquer et retirer

Pinza per applicare e togliere



16 cm - 6 1/4"

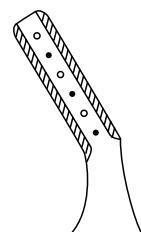
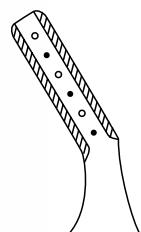
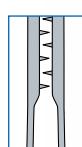
57.85.05Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



B02

Galeahaken und Kopfhautklammer
Galea Hooks and Scalp Clip
Ganchos para galea y clip hemostático para cuero cabelludo
Crochets de galea et clip hémostatique pour cuir chevelu
Uncini per galea e clip emostatica per cuoio capelluto

Galeahaken
Galea hooks
Ganchos para galea
Crochets de galea
Uncini per galea



31 cm - 12 1/8"

57.85.10

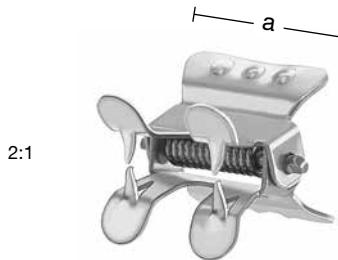
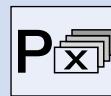
41 cm - 16"

57.85.11

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm / inch

Yasargil

Kopfhautklammer aus Stahl
Steel scalp clip
Clip hemostático de acero para cuero cabelludo
Clip hémostatique en acier pour cuir chevelu
Clip emostatica in acciaio per cuoio capelluto

**Mod. Köln****a = 10 mm****57.85.50****P₁₀**

Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



Trepanationen können bereits um 10.000 v. Chr. nachgewiesen werden. In Südamerika wurden mehrere Gräber (etwa 2000 Jahre alt) mit trepanierten Schädeln und chirurgischen Werkzeugen gefunden.

There is evidence of trepanations as early as 10,000 BC. Several graves (around 2000 years old) with trepanned skulls and surgical instruments were found in South America.

Existen pruebas de que ya se realizaban trepanaciones por el año 10.000 a. de C. En Sudamérica se han encontrado varias tumbas (de alrededor de 2000 años de antigüedad) con cráneos trepanados y herramientas quirúrgicas.

On retrouve des traces de trépanation dès 10 000 av.J.C. environ. Plusieurs tombes (vieilles d'environ 2 000 ans) contenant des crânes trépanés et des instruments chirurgicaux ont été retrouvées en Amérique du Sud.

Già dal 10.000 a.C. si hanno dimostrazioni di trapanazioni. In Sudamerica sono state ritrovate tombe (di circa 2000 anni fa) con crani trapanati e strumenti chirurgici.

TREPANATION



CRANIOTOMY



VipAir
PNEUMATIC HIGH SPEED SYSTEM

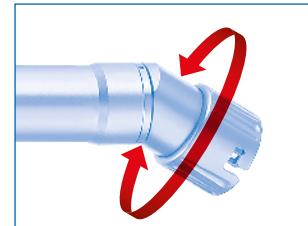


B03

Druckluftmotoren
Pneumatic High Speed Motors
Motores neumáticos
Moteurs pneumatiques
Motori pneumatici

VipAir
 PNEUMATIC HIGH SPEED SYSTEM

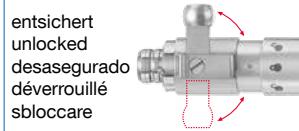
Winkelmotor
 Angled motor
 Motor angulado
 Moteur angulaire
 Motore angolato



Das drehbare Winkelstück verhindert ein Verwinden des Motorschlauches
 The rotatable elbow avoids a torsion of the motor tube
 La pieza de mano giratoria evita una torsión del tubo de motor
 Le coude à plat pivotant empêche une torsion du tuyau moteur
 Il raccordo girevole impedisce una torsione del tubo motore



11 cm - 4 3/8" **93.00.20**



entsichert
 unlocked
 desasegurado
 déverrouillé
 sbloccare



gesichert
 locked
 asegurado
 verrouillé
 bloccare

Sicherungsriegel der Kupplung
 Safety lock of coupling
 Pasador de seguridad del acoplamiento
 Embrayage à verrou de sécurité
 Chiusura di sicurezza dell'accoppiamento

Trepanmotor
 Trepan motor
 Motor de trépano
 Moteur à trépan
 Motore trapano



15,5 cm - 6 1/8" **93.00.25**

Mit niedriger Drehzahl, hohem Drehmoment und HUDSON-Anschluß
 With low speed, high torque and HUDSON connection
 Con un número de revoluciones bajo, un momento de giro alto y conexión HUDSON
 Avec régime faible, rotation rapide et raccord HUDSON
 Con a basso numero di giri, elevato momento torcente ed attacco HUDSON

Technische Daten Technical data Especificaciones técnicas Caractéristiques techniques Dati tecnici	Drehzahl bei 8 bar Revolutions per minute at 8 bar Número de revoluciones a 8 bar Nombre de tours à 8 bar Numero di giri a 8 bar	Drehmoment bei 8 bar Torque at 8 bar Momento de giro a 8 bar Moment de rotation à 8 bar Momento torcente a 8 bar	Leistung bei 8 bar Output at 8 bar Potencia a 8 bar Puissance à 8 bar Potenza a 8 bar	Empfohlener Druck Recommended pressure Presión recomendada Pression recommandée Pressione raccomandata	Freigegebener Druck Approved pressure Presión permitida Pression libérée Pressione permessa
93.00.20	100.000 U/min	2,8 Ncm	60 Watt	6-8 bar	8±2 bar
93.00.25	950 U/min	45,0 Ncm	88 Watt	8 bar	8±2 bar



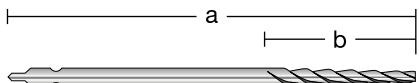
Kraniotome
 Craniotomes
 Cráneotomos
 Crâniotomes
 Craniotomi



1:1

$a = 10 \text{ mm}$	$a = 15 \text{ mm}$	$a = 20 \text{ mm}$
S	M	L
93.00.30	93.00.32	93.00.34

Kraniotomfräser
 Craniotome burrs
 Fresas para craneotomo
 Fraises pour crâniotome
 Frese per craniotomo

STERILE [R]

1:1

$\varnothing 1,5 \text{ mm}$	$\varnothing 1,5 \text{ mm}$	$\varnothing 1,5 \text{ mm}$
$a = 48 \text{ mm}$	$a = 52 \text{ mm}$	$a = 66 \text{ mm}$
$b = 12 \text{ mm}$	$b = 16 \text{ mm}$	$b = 20 \text{ mm}$
S	M	L
93.01.15	93.03.37	93.03.38

Trepanfräser
 Trepanation burrs
 Fresas de trépano
 Fraises à trépan
 Punte per perforatore

mit Montageschlüssel
 with mounting wrench
 con llave de asemblaje
 avec clé de montage
 con chiave di assemblaggio



1:1

HUDSON-Anschluß
 HUDSON connection
 Conexión HUDSON
 Raccord HUDSON
 Attacco HUDSON

$a = \varnothing 7 \text{ mm}$	$a = \varnothing 11 \text{ mm}$	$a = \varnothing 16 \text{ mm}$
93.04.00	93.04.05	93.04.10



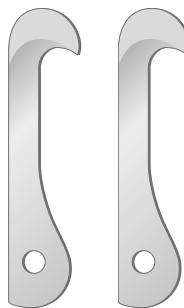
VipAir

PNEUMATIC HIGH SPEED SYSTEM

Das komplette Druckluftmotoren-System finden Sie auf den Seiten 265-276.
 The complete pneumatic high speed system can be found on pages 265-276.
 El sistema completo de motor neumático se describe en las páginas 265-276.
 Vous trouverez le système de moteur à air comprimé complet aux pages 265-276.
 Il sistema completo di motore pneumatico si trova alle pagine 265-276.

**B03****Schädelstanzen****Skull Punches****Pinzas saca-bocadas para craneotomía****Pince emporte-pièce crâniennes****Pinze per craniotomia**

mit 2 Blättern
with 2 blades
con 2 hojas
avec 2 lames
con 2 lame



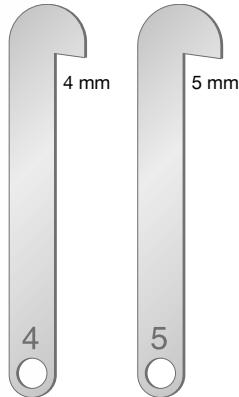
21 cm - 8 1/4"
57.01.20

12 mm

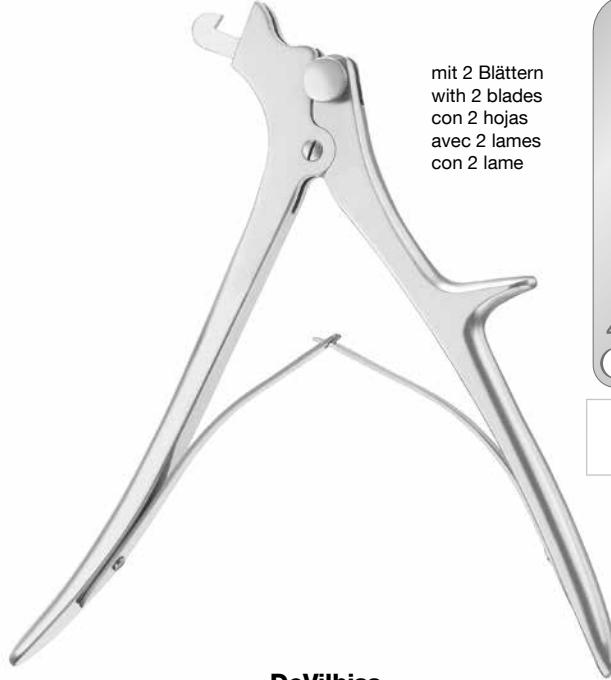
23 cm - 9"
57.61.11

Dahlgren**Cone**

mit 2 Blättern
with 2 blades
con 2 hojas
avec 2 lames
con 2 lame



21 cm - 8 1/4"
57.01.21

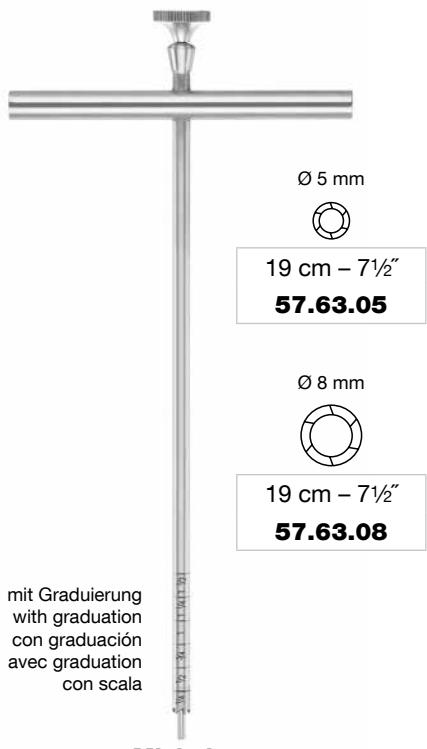
**DeVilbiss**

21
20
19
18
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16
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14
13
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11
10
9
8
7
6
5
4
3
2
1
cm/inch

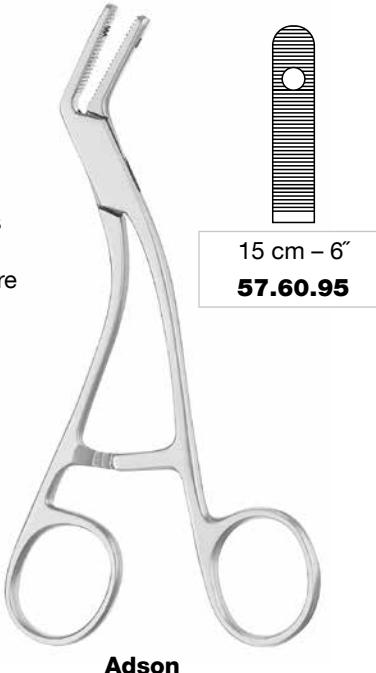


Schädeltrephinen und Bohrerführungszange
Skull Trepahes and Drill Guide Forceps
Trépanos craneales y pinza guía de taladros
Tréphines crâniennes et pince guide-forêt
Trapano cranico e pinza guida-perforatore

B03



Bohrerführungszange
Drill guide forceps
Pinza guía de taladros
Pince guide-forêt
Pinza guida-perforatore



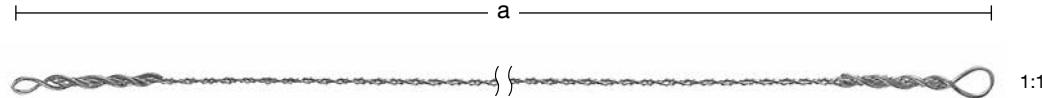


B03

Drahtsägen und Zubehör
Wire Saws and Accessories
Sierras de hilo de acero y accesorios
Scies en fil d'acier et accessoires
Seghe di filo d'acciaio e accessori

Drahtsägen
 Wire saws
 Sierras de hilo de acero
 Scies en fil d'acier
 Seghe di filo d'acciaio

P 5



1:1

Gigli (Olivecrona)

Ø 1 mm	57.64.30	a = 300 mm
Ø 1 mm	57.64.40	a = 400 mm
Ø 1 mm	57.64.50	a = 500 mm
Ø 1 mm	57.64.60	a = 600 mm
Ø 1 mm	57.64.70	a = 700 mm

Handgriffe
 Handle
 Mango
 Manche
 Manico



Gigli

P 2
57.64.02

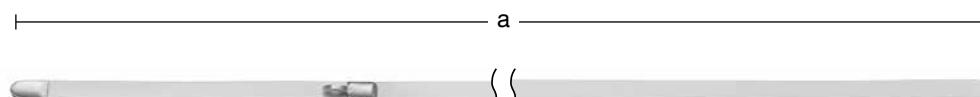


Gigli

P 2
57.64.06

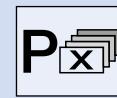
Einführungsinstrument (flexibel)
 Guiding instrument (flexible)
 Instrumento para la introducción (flexible)
 Instrument à introduire (flexible)
 Strumento introduttore (flessibile)

P 1



De Martel (Bailey)

6 mm **57.64.90** a = 330 mm

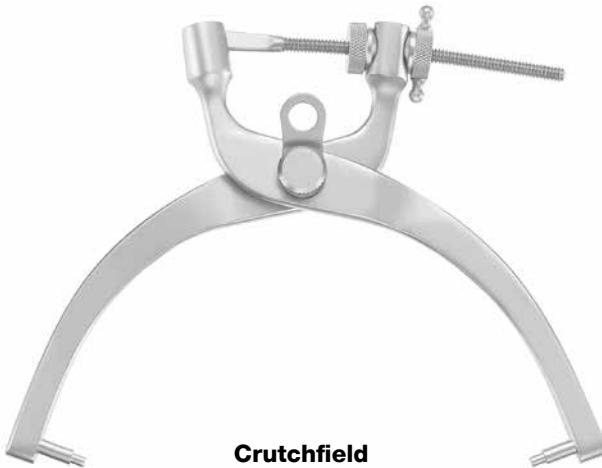
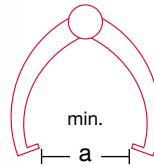


Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi



Schädelhalter
Skull Traction Tongs
Pinzas craneales de tracción
Pinces de traction crâne
Pinze di trazione per cranio

B03

**Crutchfield**

a = 65 mm

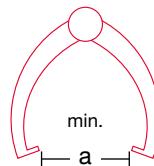
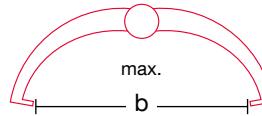
57.67.01

b = 115 mm

a = 90 mm

57.67.02

b = 180 mm



a = 30 mm

57.68.02

b = 155 mm

Satz bestehend aus:
Set consisting of:
Juego compuesto por:
Jeu composé de:
Set composto da:

57.68.12 Wrench 1x

57.68.13 Skull pins 2x

Dorn
Skull pin
Perno
Epine
Punta

**57.68.12**

Schlüssel
Wrenches
Llaves
Clés
Chiave

**57.68.13**

**B03****Handbohrapparat und Werkzeuge****Hand Drill and Tools****Perforador de mano y terminales****Perforateur à main et outils****Trapano a mano e punte**

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm / inch



Hudson	57.60.00
Satz bestehend aus: Set consisting of: Juego compuesto por: Jeu composé de: Set composto da:	
57.60.03 Hand drill	1x
57.60.05 Extension piece	1x
57.60.09 Burr	1x
57.60.14 Burr	1x
57.60.16 Dust burr	1x
57.60.22 Dust burr	1x

Flachbohrer
Flat drill
Broca plano
Fraise en plat
Perforatore piatto



Cushing 57.60.34 Ø 14 mm

Fräser
Burrs
Fresas
Fraises
Frese



57.60.09 Ø 9 mm



57.60.14 Ø 14 mm

Kugelfräser
Spherical burrs
Fresas redondas
Fraises forme boule
Frese a pallina



57.60.16 Ø 16 mm



57.60.22 Ø 22 mm

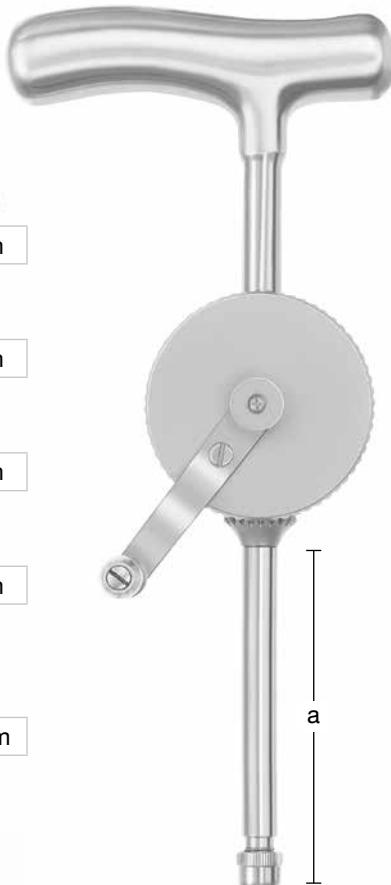
Perforationsbohrer
Perforators
Brocas helicoidales
Fraises hélicoïdales
Perforatori elicoidali



McKenzie 57.60.43 Ø 13 mm



D'Errico 57.60.76 Ø 16 mm



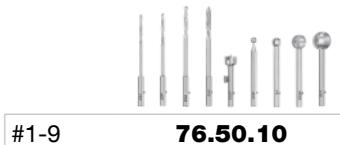
Spiralbohrer
 Twist drills
 Brocas espirales
 Fraises en spirale
 Perforatori a spirale

- | | | |
|--|--------------------|----------|
| | #1 76.50.11 | Ø 2,5 mm |
| | #2 76.50.12 | Ø 3,0 mm |
| | #3 76.50.13 | Ø 3,5 mm |
| | #4 76.50.14 | Ø 4,0 mm |

Trephine
 Trephine
 Trépano
 Tréphine
 Trapano

- | | | |
|--|--------------------|-----------|
| | #5 76.50.15 | Ø 10,0 mm |
| | #6 76.50.16 | Ø 5,0 mm |
| | #7 76.50.17 | Ø 8,0 mm |
| | #8 76.50.18 | Ø 12,0 mm |
| | #9 76.50.19 | Ø 16,0 mm |

Fräser
 Burrs
 Fresas
 Fraises
 Frese



Satz komplett
 Set complete
 Juego completo
 Jeu complet
 Set completo

- | | |
|------|-----------------|
| #1-9 | 76.50.10 |
|------|-----------------|

Handbohrapparate (allein)
 Hand drills (only)
 Perforadores de mano (solo)
 Perforateurs à main (seul)
 Trapani a mano (solo)

- | |
|----------------------------|
| Stille |
| 76.50.01 a = 50 mm |
| Stille-Sherman |
| 76.50.31 a = 100 mm |

Vorbohrer
 Reamer
 Perforador
 Alésoir
 Perforatore

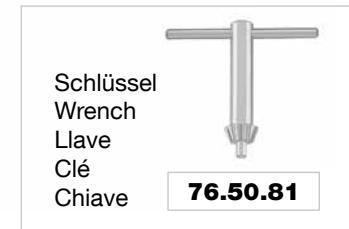
- | | |
|--|--------------------------|
| | Crutchfield |
| | 57.67.22 Ø 3,0 mm |

Stille	76.50.00
	76.50.01 Hand drill (a = 50 mm) 1x
	76.50.11 Twist drill 1x
	76.50.12 Twist drill 1x
	76.50.13 Twist drill 1x
	76.50.14 Twist drill 1x
	76.50.15 Trephine 1x
	76.50.16 Burr 1x
	76.50.17 Burr 1x
	76.50.18 Burr 1x
	76.50.19 Burr 1x

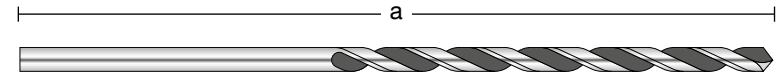
Stille-Sherman	76.50.30
	76.50.31 Hand drill (a = 100 mm) 1x
	76.50.11 Twist drill 1x
	76.50.12 Twist drill 1x
	76.50.13 Twist drill 1x



B03

Handbohrapparate und Spiralbohrer**Hand Drills and Twist Drills****Perforadores de mano y brocas espirales****Perforateurs à main et forets hélicoïdaux****Trapani a mano e perforatori elicoidali**

Spiralbohrer
Twist drills
Brocas espirales
Forets hélicoïdaux
Perforatori elicoidali



Ø 1,5 mm	76.69.15	a = 7,0 cm
Ø 2,0 mm	76.69.20	a = 8,5 cm
Ø 2,5 mm	76.69.25	a = 9,5 cm
Ø 3,0 mm	76.69.30	a = 10,0 cm
Ø 3,2 mm	76.69.32	a = 10,0 cm
Ø 3,5 mm	76.69.35	a = 11,0 cm
Ø 4,0 mm	76.69.40	a = 12,0 cm
Ø 4,5 mm	76.69.45	a = 13,0 cm
Ø 5,0 mm	76.69.50	a = 13,0 cm
Ø 6,0 mm	76.69.60	a = 14,0 cm



Flacher Schieber
Ergonomisches Design und Balance
Einteilige Zerlegetechnik

Flat upper slide
Ergonomic design and balance
One piece dismantable rongeur

Corredora plana
Diseño ergonómico e equilibrado
Pinza saca-bocada desmontable de
una sola pieza

Coulisse plate
Design et équilibre ergonomiques
Technique de démontage en une pièce

Asta piatta
Design ed equilibrio ergonomici
Tecnica di smontaggio monopezzo

RONGEURS



Kerrison
...DieBLAUEN.



B04 Kerrison ...DieBLAUEN.

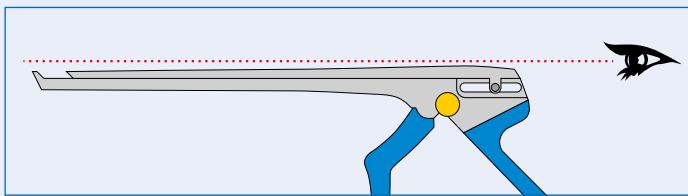
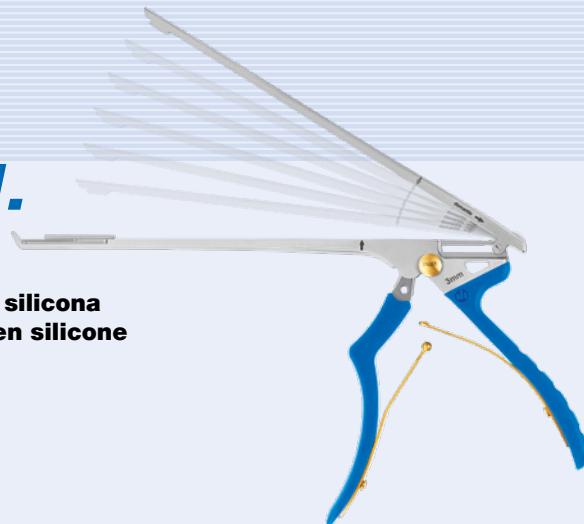
Zerlegbare Stanzen mit Silikongriff

Dismantable Rongeurs with Silicone Handle

Pinzas saca-bocadas desmontables con mango de silicona

Pince emporte-pièce démontables avec manche en silicone

Laminotomi smontabili con manico in silicone



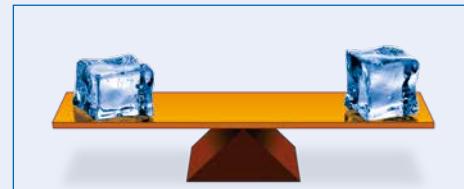
Flacher Schieber für optimale Sicht bei minimal-invasiven Eingriffen

Flat upper slide allows ideal visibility for minimally invasive surgery

Corredera plana posibilita una visión óptima en intervenciones mínimamente invasivas

Coulisse plate pour une visibilité optimale lors des interventions minimales invasives

L'asta piatta permette una vista ottimale per interventi mini-invasivi



Ergonomisches Design und Balance für höchste Präzision und Arbeitskomfort

Ergonomic design and balance for high precision and working comfort

Diseño ergonómico e equilibrado para la máxima precisión y confort de trabajo

Design et équilibre ergonomique pour une précision et un confort de travail maximal

Design ed equilibrio ergonomici per un'altissima precisione e comfort di lavorativo



Einteilige Zerlegetechnik für einfache Demontage und Montage

One piece dismantable rongeur for easy disassembling and assembling

Pinza saca-bocada desmontable de una sola pieza para un desmontaje/montaje sencillo

Technique de démontage d'une pièce pour un montage et un démontage facile

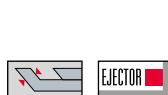
Tecnica di smontaggio monopezzo per un smontaggio e montaggio facile



Kerrison
...DieBLAUEN.

Zerlegbare Stanzen mit Silikongriff
Dismantable Rongeurs with Silicone Handle
Pinzas saca-bocadas desmontables con mango de silicona
Pince emporte-pièce démontables avec manche en silicone
Laminotomi smontabili con manico in silicone

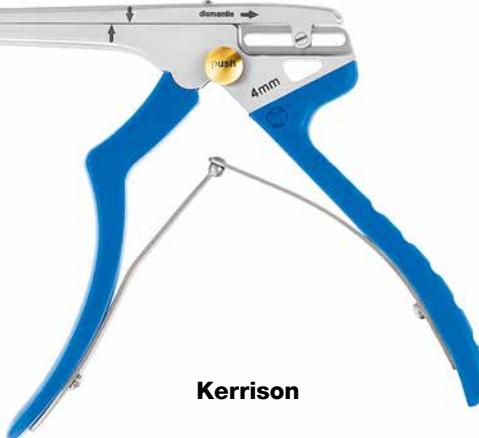
B04



b



Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza di morso	D-a	
	40° a	40° b = 18 cm - 7 1/8" b = 20 cm - 8"
1 mm	57.28.01	57.28.11
2 mm	57.28.02	57.28.12
3 mm	57.28.03	57.28.13
4 mm	57.28.04	57.28.14
5 mm	57.28.05	57.28.15
6 mm	57.28.06	57.28.16



Kerrison



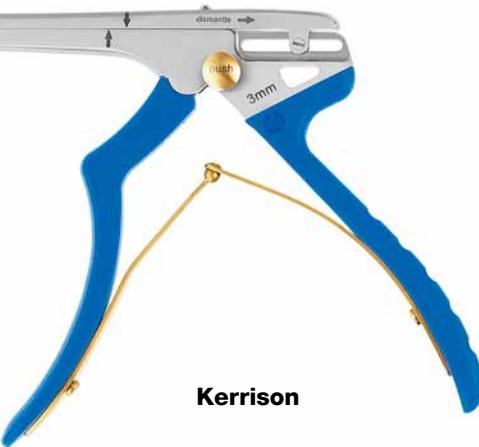
mit Auswerfer
with ejector
con expulsor
avec ejecteur
con espulsore



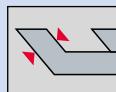
b



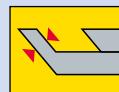
Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza di morso	D-a	
	40° a	40° b = 18 cm - 7 1/8" b = 20 cm - 8"
1,0 mm	57.28.21	57.28.31
1,5 mm	57.27.91	57.27.92
2,0 mm	57.28.22	57.28.32
3,0 mm	57.28.23	57.28.33
4,0 mm	57.28.24	57.28.34
5,0 mm	57.28.25	57.28.35
6,0 mm	57.28.26	57.28.36



Kerrison



Breite Stanzplatte = graue Feder
 Thick footplate = gray spring
 Lámina de punzonar ancha = muelle gris
 Plaque de poinçonnage large = ressort gris
 Morso largo = molla grigia



Schmale Stanzplatte = goldene Feder
 Narrow footplate = golden spring
 Lámina de punzonar estrecha = muelle dorada
 Plaque de poinçonnage étroite = ressort doré
 Morso sottile = molla dorata



B04

Zerlegbare Stanzen mit Silikongriff
Dismantable Rongeurs with Silicone Handle
Pinzas saca-bocadas desmontables con mango de silicona
Pince emporte-pièce démontables avec manche en silicone
Laminotomi smontabili con manico in silicone

Kerrison
...DieBLAUEN.

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch

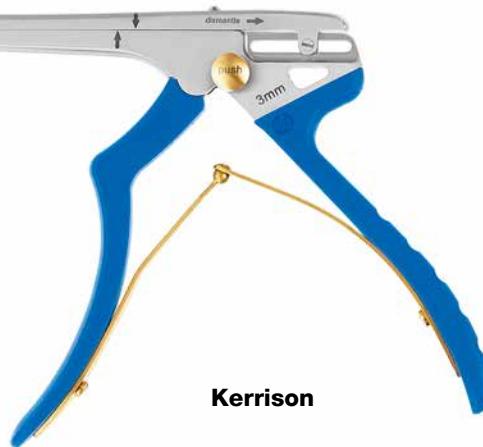


b

Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza del morso	D _a
a	13 mm
1 mm	57.28.41
2 mm	57.28.42
3 mm	57.28.43
4 mm	57.28.44
5 mm	57.28.45
6 mm	57.28.46

90°

b = 18 cm - 7 1/8"



Kerrison



b

Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza del morso	D _a
a	13 mm
1 mm	57.28.51
2 mm	57.28.52
3 mm	57.28.53
4 mm	57.28.54
5 mm	57.28.55
6 mm	57.28.56

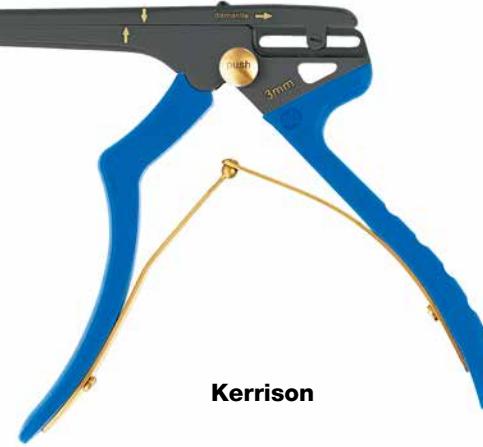
magic cut

40°

b = 18 cm - 7 1/8"

40°

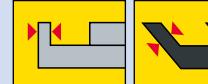
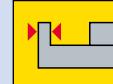
b = 20 cm - 8"



Kerrison



mit Auswerfer
with ejector
con expulsor
avec éjecteur
con espulsore



Schmale Stanzplatte = goldene Feder
Narrow footplate = golden spring
Lámina de punzonar estrecha = muelle dorada
Plaque de poinçonnage étroite= ressort doré
Morso sottile = molla dorata



Kerrison
...DieBLAUEN.

Zerlegbare Stanzen mit Silikongriff
Dismantable Rongeurs with Silicone Handle
Pinza saca-bocada desmontables con mango de silicona
Pince emporte-pièce démontables avec manche en silicone
Laminotomi smontabili con manico in silicone

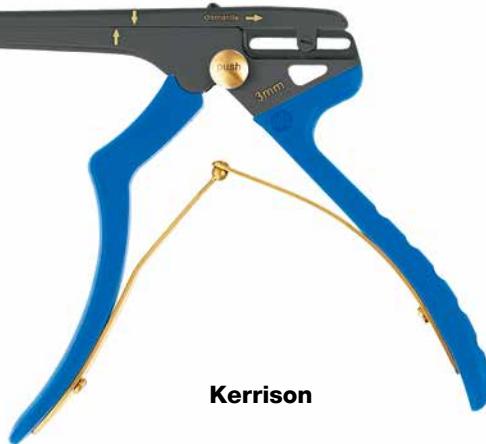
B04



b

EJECTOR

Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza del morso	D-a	magic cut	
		90°	b = 18 cm - 7 1/8"
1 mm	a	57.28.71	
2 mm		57.28.72	
3 mm		57.28.73	
4 mm		57.28.74	
5 mm		57.28.75	
6 mm		57.28.76	



magic cut

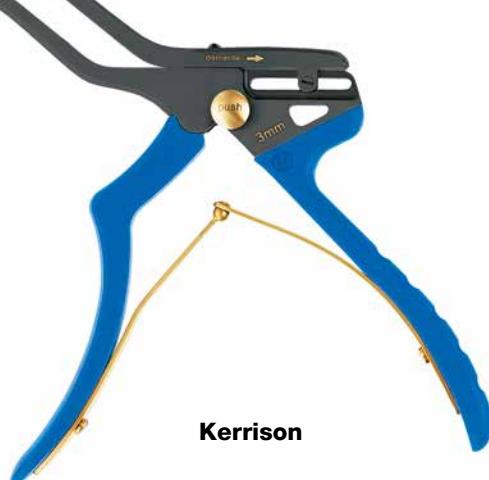
Lange Standzeit, hohe Oberflächenhärte und blendfreie Oberfläche
 Long lasting cutting ability, high surface hardness and non-dazzling surface
 Máxima duración del corte, alta dureza de la superficie y superficie antideslumbrante
 Longue durée de vie, grande dureté de la surface et surface non-éblouissante
 Massima durata del taglio, alta durezza della superficie e superficie antiriflesso



b

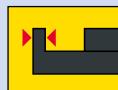
EJECTOR

Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza del morso	D-a	magic cut	
		40°	b = 12 cm - 4 3/4"
1 mm	a	57.28.91	
2 mm		57.28.92	
3 mm		57.28.93	
4 mm		57.28.94	
5 mm		57.28.95	
6 mm		57.28.96	



EJECTOR

mit Auswerfer
with ejector
con expulsor
avec éjecteur
con espulsore



Schmale Stanzplatte = goldene Feder
 Narrow footplate = golden spring
 Lámina de punzón estrecha = muelle dorada
 Plaque de poinçonnage étroite = ressort doré
 Morso sottile = molla dorata

**B04**

Stanzen
Rongeurs
Pinzas saca-bocadas
Pince emporte-pièce
Laminotomi



b

D _a	
Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza de morso	15 mm
90° a	b = 18 cm - 7 1/8"
3 mm	57.06.57
5 mm	57.06.59
90°	b = 20 cm - 8"
	57.06.53
	57.06.55

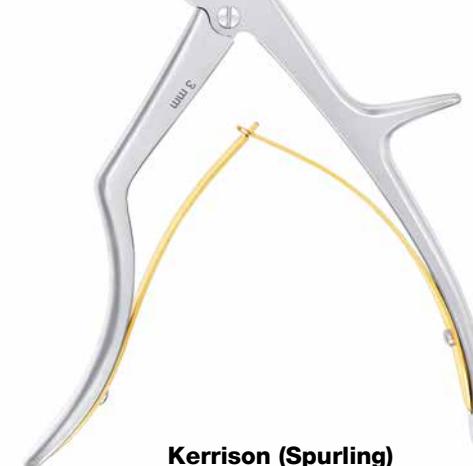
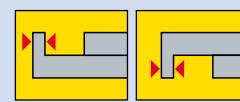
**Kerrison (Spurling)**

Griff (groß)
Handle (large)
Mango (grande)
Manche (grand)
Manico (grande)

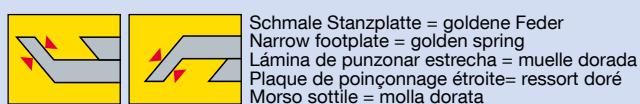
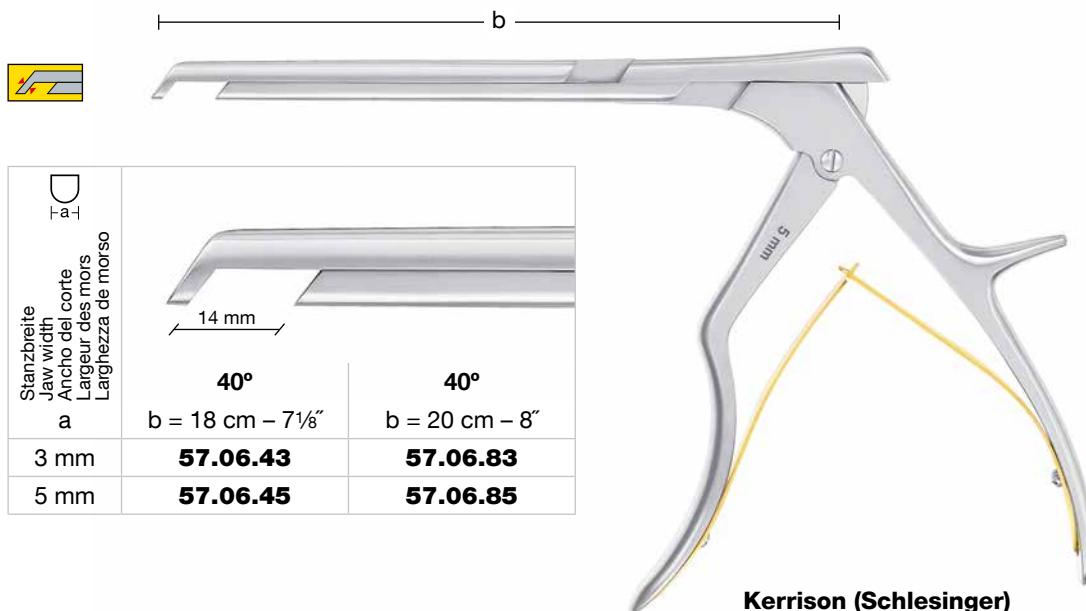
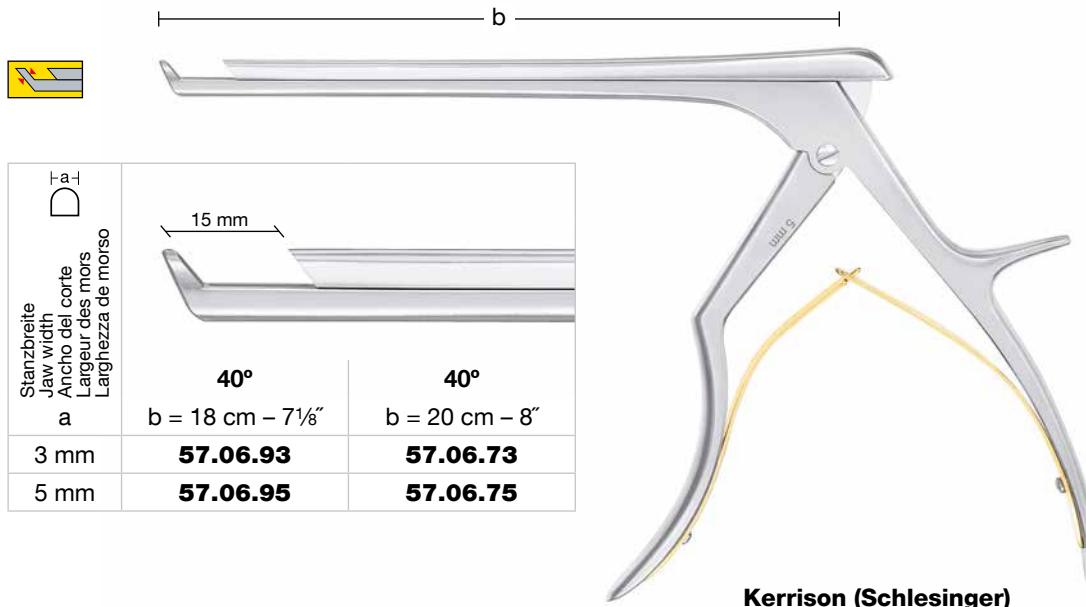


b

D _a	
Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza de morso	14 mm
90° a	b = 18 cm - 7 1/8"
3 mm	57.06.67
5 mm	57.06.69
90°	b = 20 cm - 8"
	57.06.63
	57.06.65

**Kerrison (Spurling)**

Schmale Stanzplatte = goldene Feder
Narrow footplate = golden spring
Lámina de punzonar estrecha = muelle dorada
Plaque de poinçonnage étroite= ressort doré
Morso sottile = molla dorata



**B04**

Stanzen
Rongeurs
Pinzas saca-bocadas
Pince emporte-pièce
Laminotomi

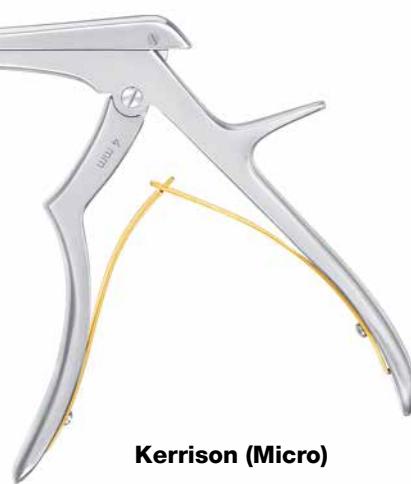
21
20
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16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



b

D _a	
Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza de morso	10 mm
90°	90°
a	b = 18 cm - 7 1/8"
1 mm	57.07.01
2 mm	57.07.02
3 mm	57.07.03
4 mm	57.07.04
5 mm	57.07.05
6 mm	57.07.06
b = 20 cm - 8"	57.07.41
90°	90°

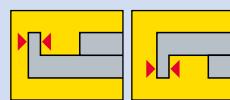
a	b = 18 cm - 7 1/8"	b = 20 cm - 8"
1 mm	57.07.01	57.07.41
2 mm	57.07.02	57.07.42
3 mm	57.07.03	57.07.43
4 mm	57.07.04	57.07.44
5 mm	57.07.05	57.07.45
6 mm	57.07.06	57.07.46

**Kerrison (Micro)**

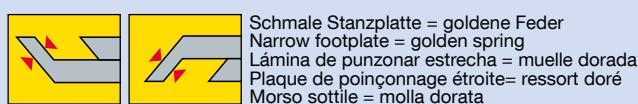
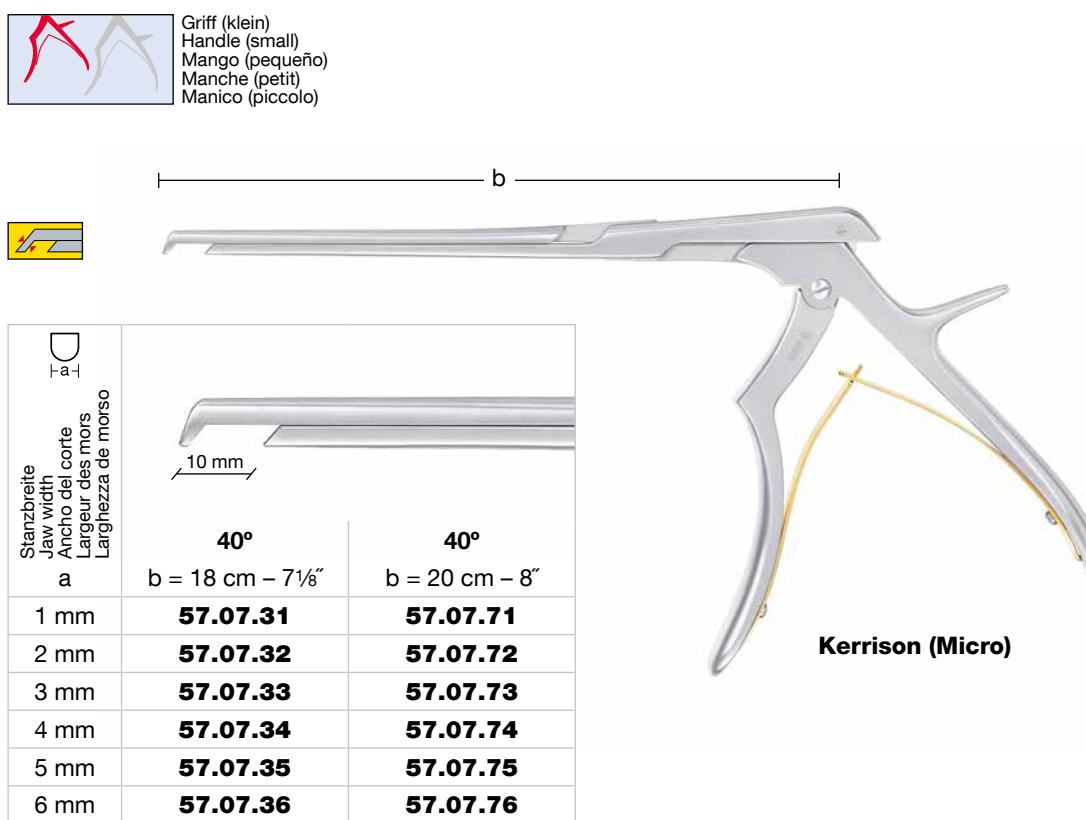
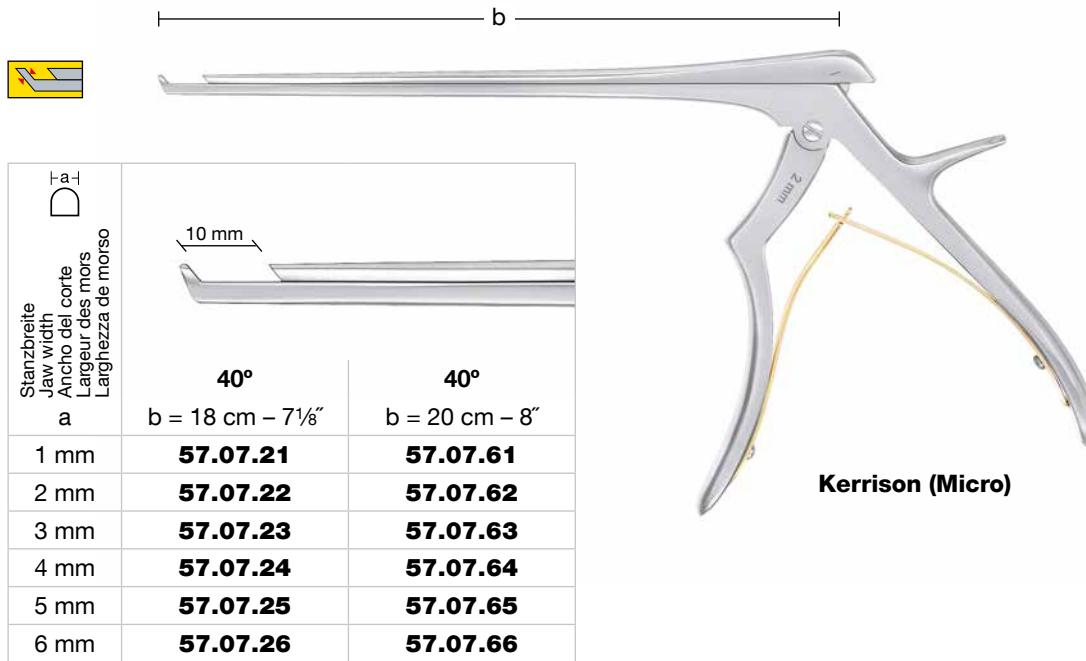
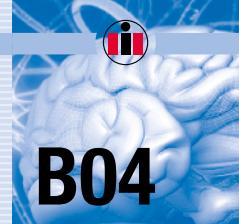
b

D _a	
Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza de morso	10 mm
90°	90°
a	b = 18 cm - 7 1/8"
1 mm	57.07.11
2 mm	57.07.12
3 mm	57.07.13
4 mm	57.07.14
5 mm	57.07.15
6 mm	57.07.16
b = 20 cm - 8"	57.07.51
90°	90°

a	b = 18 cm - 7 1/8"	b = 20 cm - 8"
1 mm	57.07.11	57.07.51
2 mm	57.07.12	57.07.52
3 mm	57.07.13	57.07.53
4 mm	57.07.14	57.07.54
5 mm	57.07.15	57.07.55
6 mm	57.07.16	57.07.56

**Kerrison (Micro)**

Schmale Stanzplatte = goldene Feder
 Narrow footplate = golden spring
 Lámina de punzón estrecha = muelle dorada
 Plaque de poinçonnage étroite= ressort doré
 Morso sottile = molla dorata



**B04**

Stanzen
Rongeurs
Pinzas saca-bocadas
Pince emporte-pièce
Laminotomi

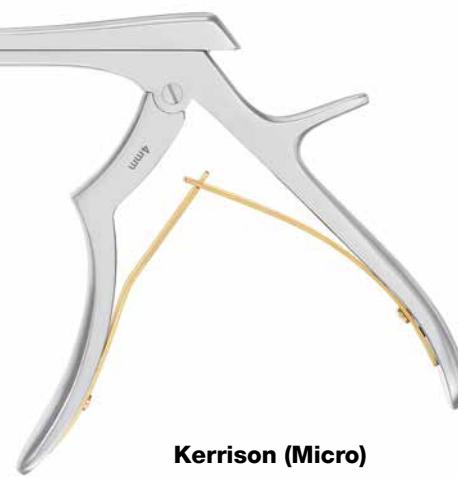
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



EJECTOR

b

D _a		D _a	
Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza de morso	10 mm	90°	90°
a	b = 18 cm - 7 1/8"	b = 20 cm - 8"	
2 mm	57.09.50	57.09.62	
3 mm	57.09.51	57.09.63	
4 mm	57.09.52	57.09.64	
5 mm	57.09.53	57.09.65	



Kerrison (Micro)



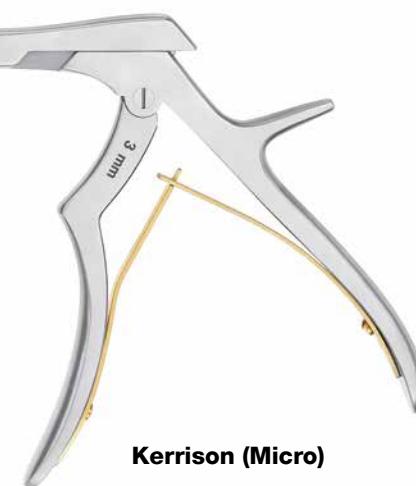
Griff (klein)
 Handle (small)
 Mango (pequeño)
 Manche (petit)
 Manico (piccolo)



EJECTOR

b

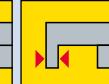
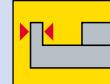
D _a		D _a	
Stanzbreite Jaw width Ancho del corte Largeur des mors Larghezza de morso	10 mm	90°	90°
a	b = 18 cm - 7 1/8"	b = 20 cm - 8"	
2 mm	57.09.54	57.09.66	
3 mm	57.09.55	57.09.67	
4 mm	57.09.56	57.09.68	
5 mm	57.09.57	57.09.69	



Kerrison (Micro)



mit Auswerfer
 with ejector
 con expulsor
 avec éjecteur
 con espulsore

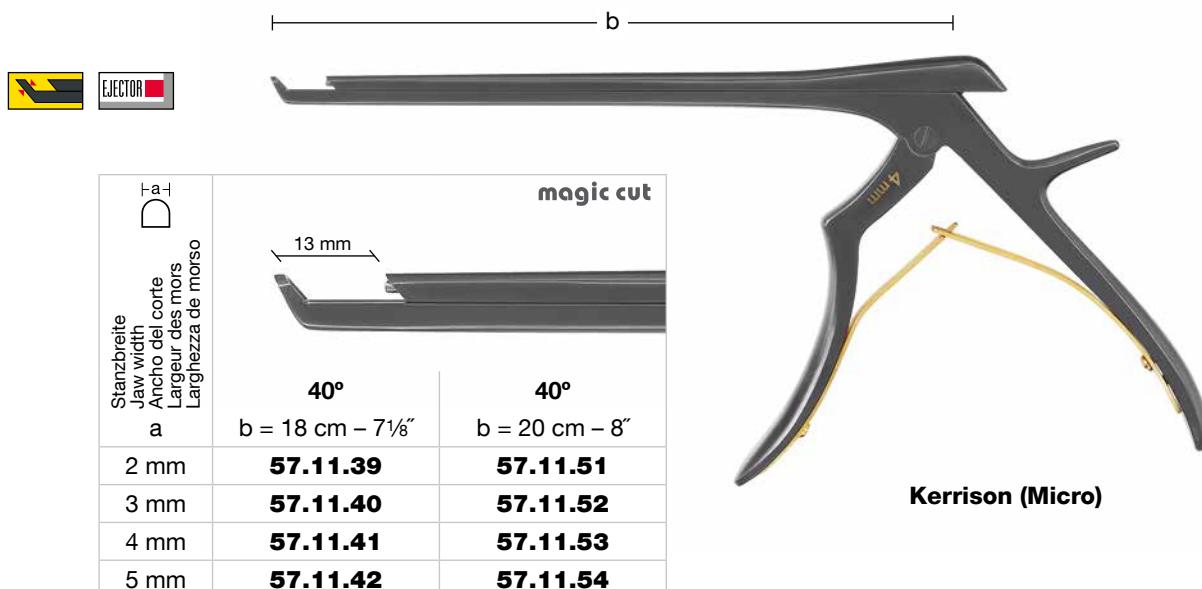
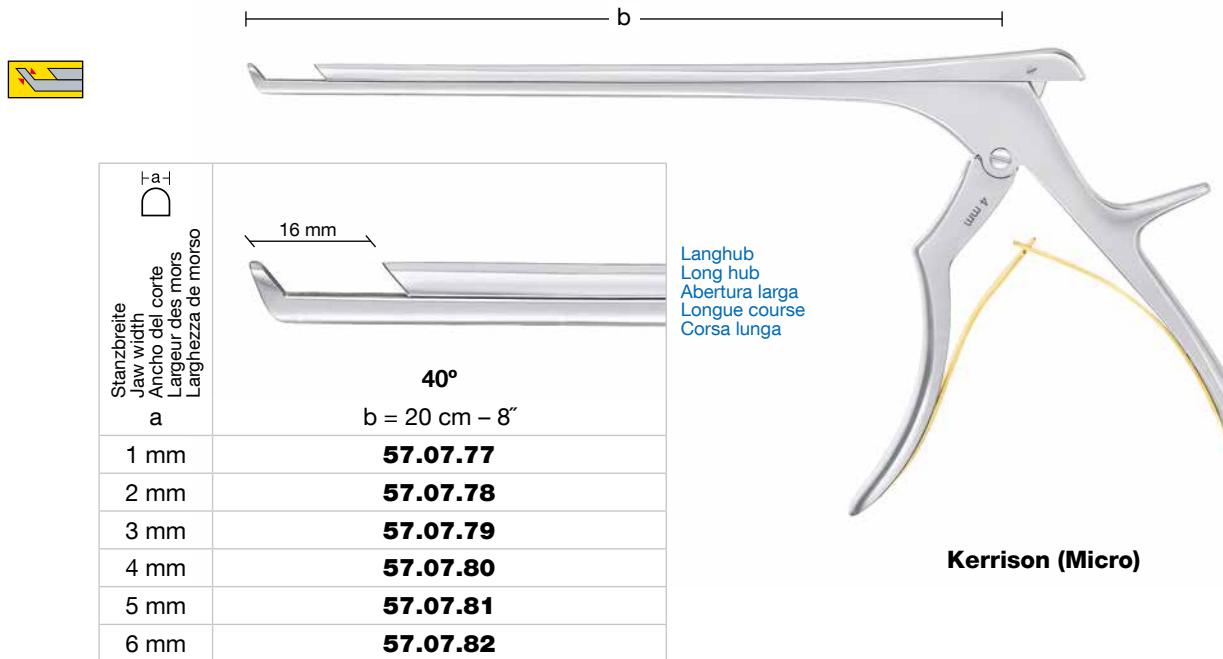


Schmale Stanzplatte = goldene Feder
 Narrow footplate = golden spring
 Lámina de punzonar estrecha = muelle dorada
 Plaque de poinçonnage étroite= ressort doré
 Morso sottile = molla dorata



Stanzen
Rongeurs
Pinzas saca-bocadas
Pinces emporte-pièce
Laminotomi

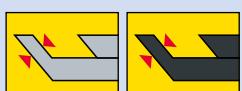
B04



Lange Standzeit, hohe Oberflächenhärte und blendfreie Oberfläche
Long lasting cutting ability, high surface hardness and non-dazzling surface
Máxima duración del corte, alta dureza de la superficie y superficie antideslumbrante
Longue durée de vie, grande dureté de la surface et surface non-éblouissante
Massima durata del taglio, alta durezza della superficie e superficie antiriflesso



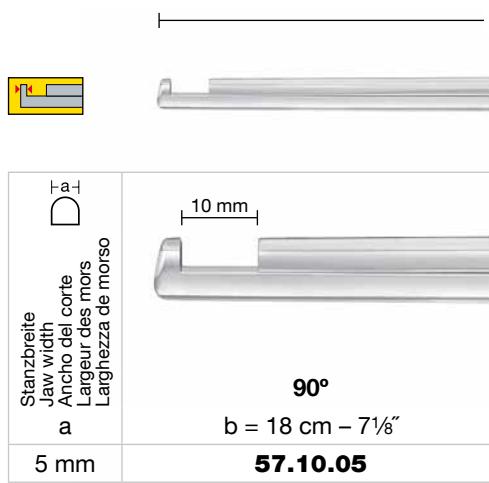
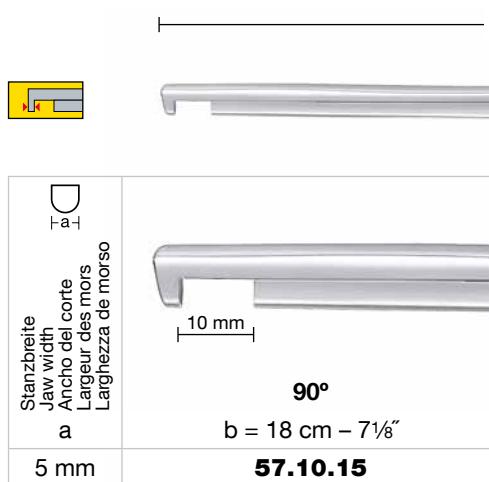
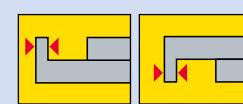
mit Auswerfer
with ejector
with expulsor
avec éjecteur
con espulsore



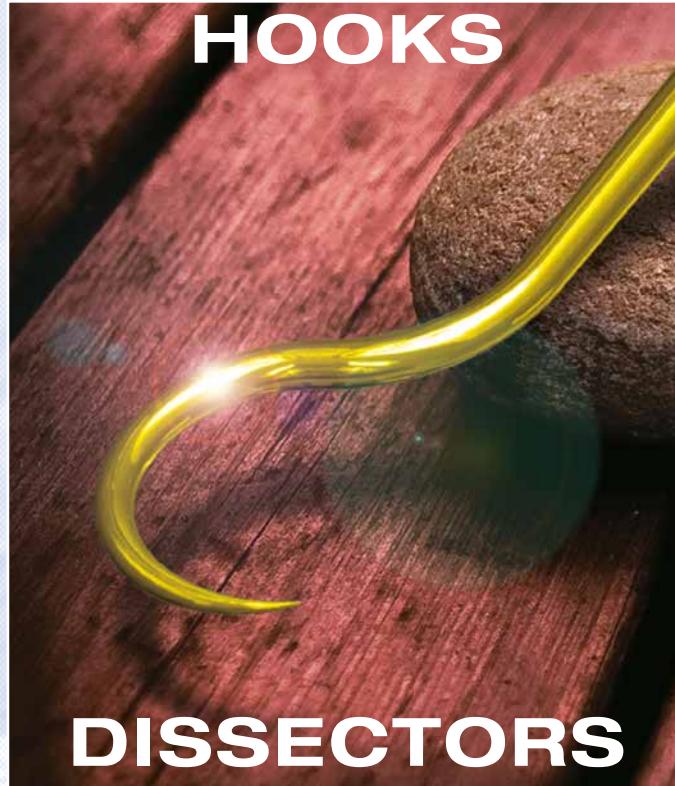
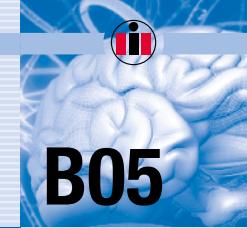
Schmale Stanzplatte = goldene Feder
Narrow footplate = golden spring
Lámina de punzonar estrecha = muelle dorada
Plaque de poinçonnage étroite= ressort doré
Morso sottile = molla dorata

**B04**

Stanzen
Rongeurs
Pinzas saca-bocadas
Pince emporte-pièce
Laminotomi

**Kerrison (Ferris-Smith)****Kerrison (Ferris-Smith)**

Schmale Stanzplatte = goldene Feder
 Narrow footplate = golden spring
 Lámina de punzónar estrecha = muelle dorada
 Plaque de poinçonnage étroite= ressort doré
 Morso sottile = molla dorata



**B05****Haken
Hooks
Ganchos
Crochet
Uncini**

Nervhäkchen
Nerve hooks
Ganchitos para nervios
Crochets à nerfs
Uncini per nervi

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm inch



16 cm - 6 1/4"
20.20.34



7 mm
16 cm - 6 1/4"
20.20.57

9 mm
16 cm - 6 1/4"
20.20.59

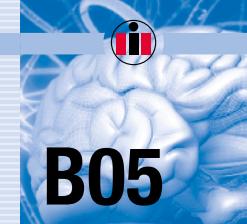


2 mm
14 cm - 5 1/2"
20.22.01

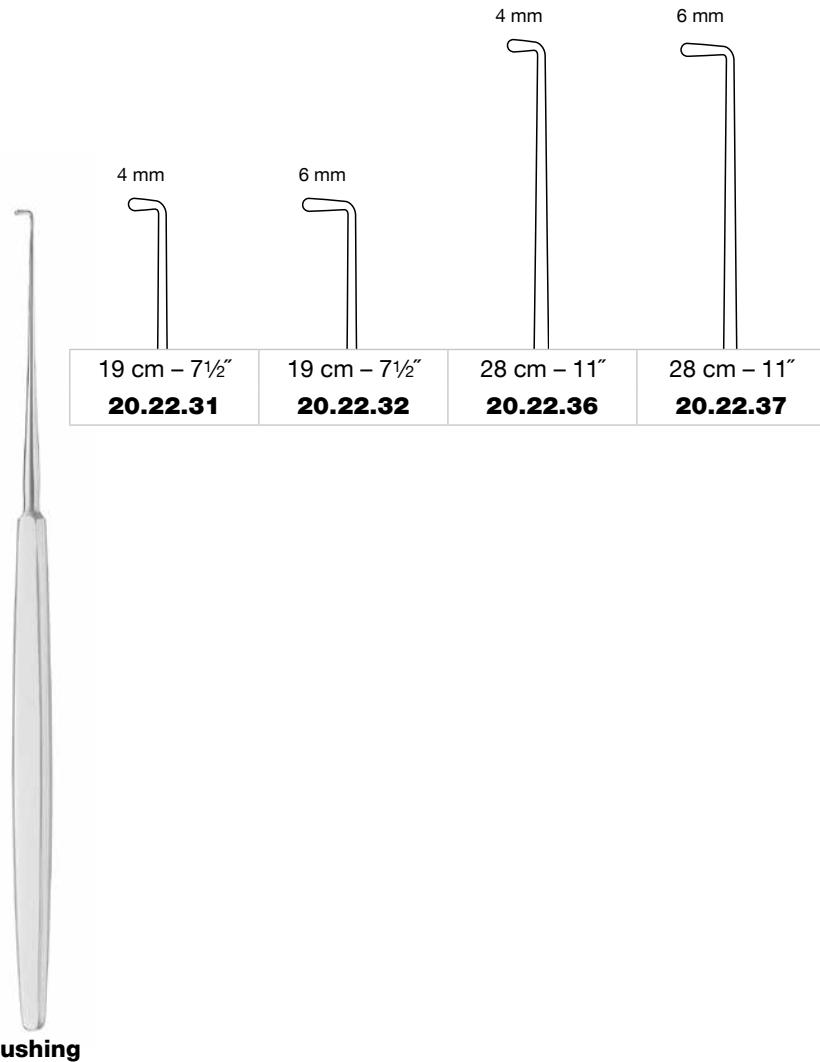
3 mm
14 cm - 5 1/2"
20.22.02

4 mm
14 cm - 5 1/2"
20.22.03

Lucae

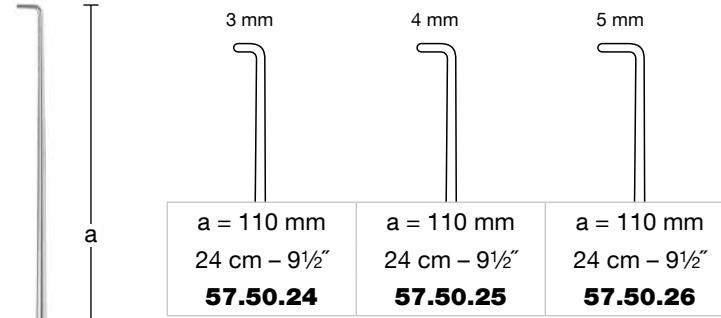
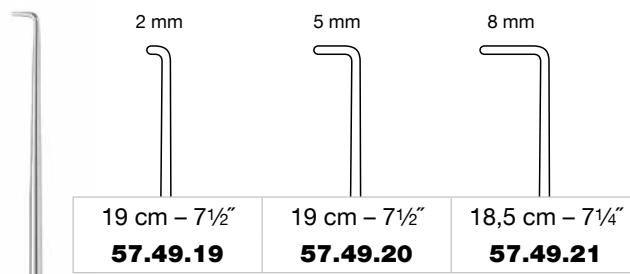


Nervhähchen
Nerve hooks
Ganchitos para nervios
Crochets à nerfs
Uncini per nervi



**B05****Haken
Hooks
Ganchos
Crochet
Uncini**

cm | inch



Nervhäkchen
Nerve hooks
Ganchitos para nervios
Crochet à nerfs
Uncini per nervi



**Haken
Hooks
Ganchos
Crochets
Uncini**

B05

Nerv- und Gefäßhækchen
Nerve and vessel hooks
Ganchitos para nervios y vasos
Crochets à nerfs et vaisseaux
Uncini per nervi e vasi



mit scharfer Schneide
with sharp cutting edge
con corte afilado
avec tranchant aigu
con tagliente affilato

2,0 mm

24 cm – 9½"
57.49.10

3,0 mm

18,5 cm – 7¼"
58.30.31

3,5 mm

18,5 cm – 7¼"
58.30.32

2,0 mm

18,5 cm – 7¼"
58.30.35

2,5 mm

18,5 cm – 7¼"
58.30.36



Eif



Krayenbühl



Vergrößerung
Magnification
Engrandecimiento
Agrandecimiento
Ingrandimento

**B05****Haken
Hooks
Ganchos
Crochets
Uncini**

Häkchen
Hooks
Ganchos
Crochets
Uncini

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm inch

Jacobson

2,0 mm

18,5 cm - 7 1/4"

58.30.26**Fisch**

1,5 mm

18,5 cm - 7 1/4"

58.32.03

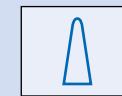
1,5 mm

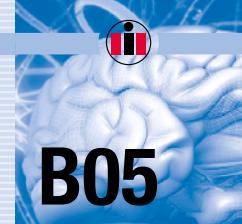
23 cm - 9"

58.32.13

1,5 mm

23 cm - 9"

58.32.18spitz
sharp
agudo
pointu
acutastumpf
blunt
romo
mousse
smussa



Häkchen
Hooks
Ganchos
Crochets
Uncini

2,0 mm

19 cm – 7½"
58.32.63



2,0 mm

19 cm – 7½"
58.32.64



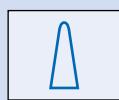
3,0 mm

19 cm – 7½"
58.32.65

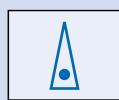


RhotoN

RhotoN



stumpf
blunt
romo
mousse
smussa



halbspitz
semi sharp
semi agudo
semi pointu
semi acuta

**B05****Haken
Hooks
Ganchos
Crochet
Uncini**

Dura- und Hauthäkchen

Dura and skin hooks

Ganchitos para duramadre y piel

Crochets pour dure-mère et peau

Uncini per dura-madre e pelle

cm inch

3 mm

20 cm - 8"
20.27.22

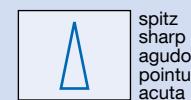
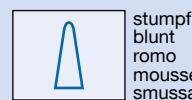
3 mm

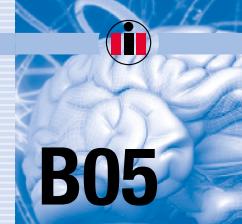
20 cm - 8"
20.27.23

7 mm

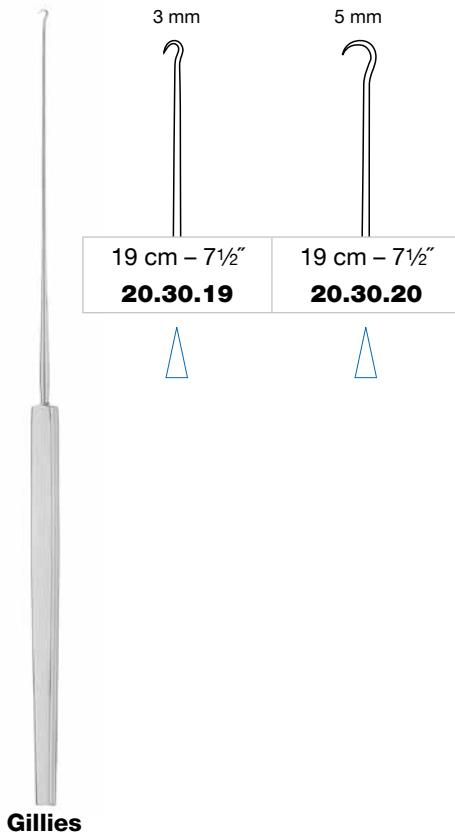
20 cm - 8"
20.27.37

2,5 mm

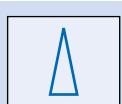
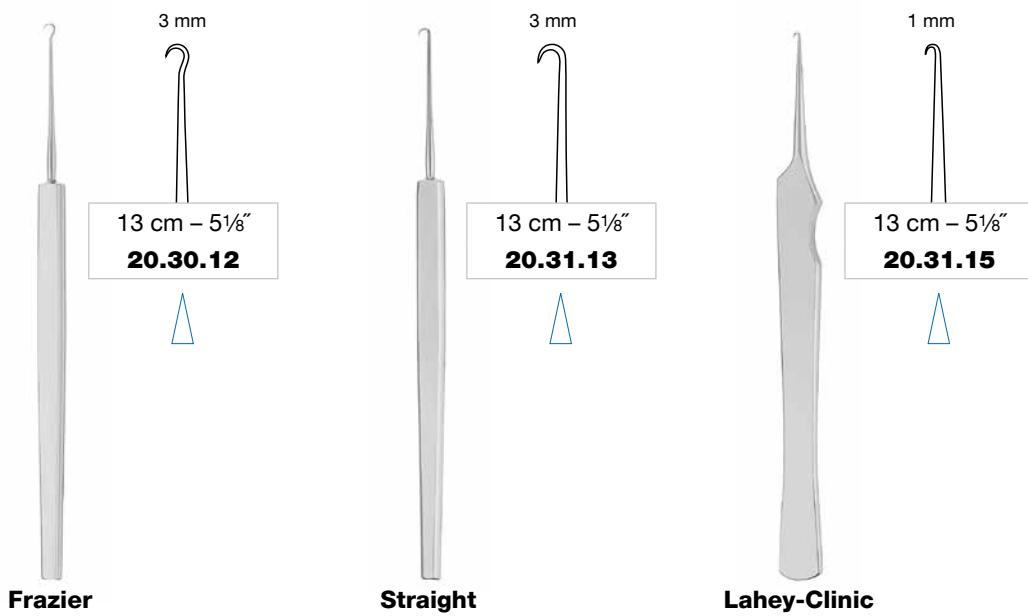
18,5 cm - 7 1/4"
58.32.04**Adson****Crile**spitz
sharp
agudo
pointu
acutastumpf
blunt
romo
mousse
smussa



Dura- und Hauthäkchen
Dura and skin hooks
Ganchitos para duramadre y piel
Crochets pour dure-mère et peau
Uncini per dura-madre e pelle



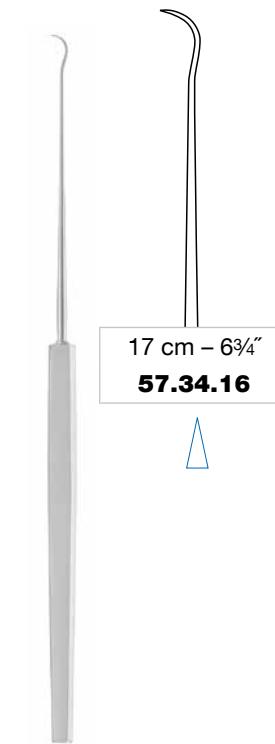
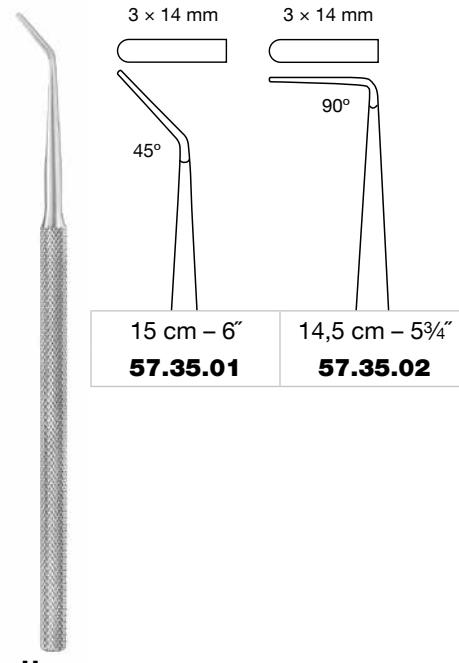
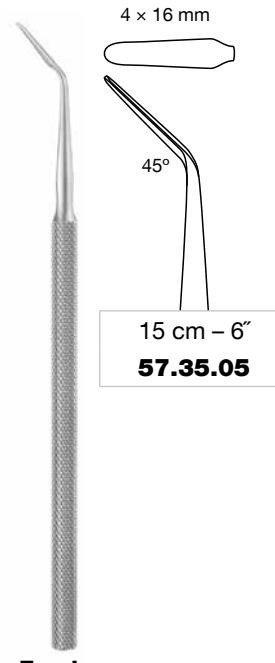
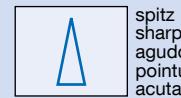
Gillies



spitz
sharp
agudo
pointu
acuta

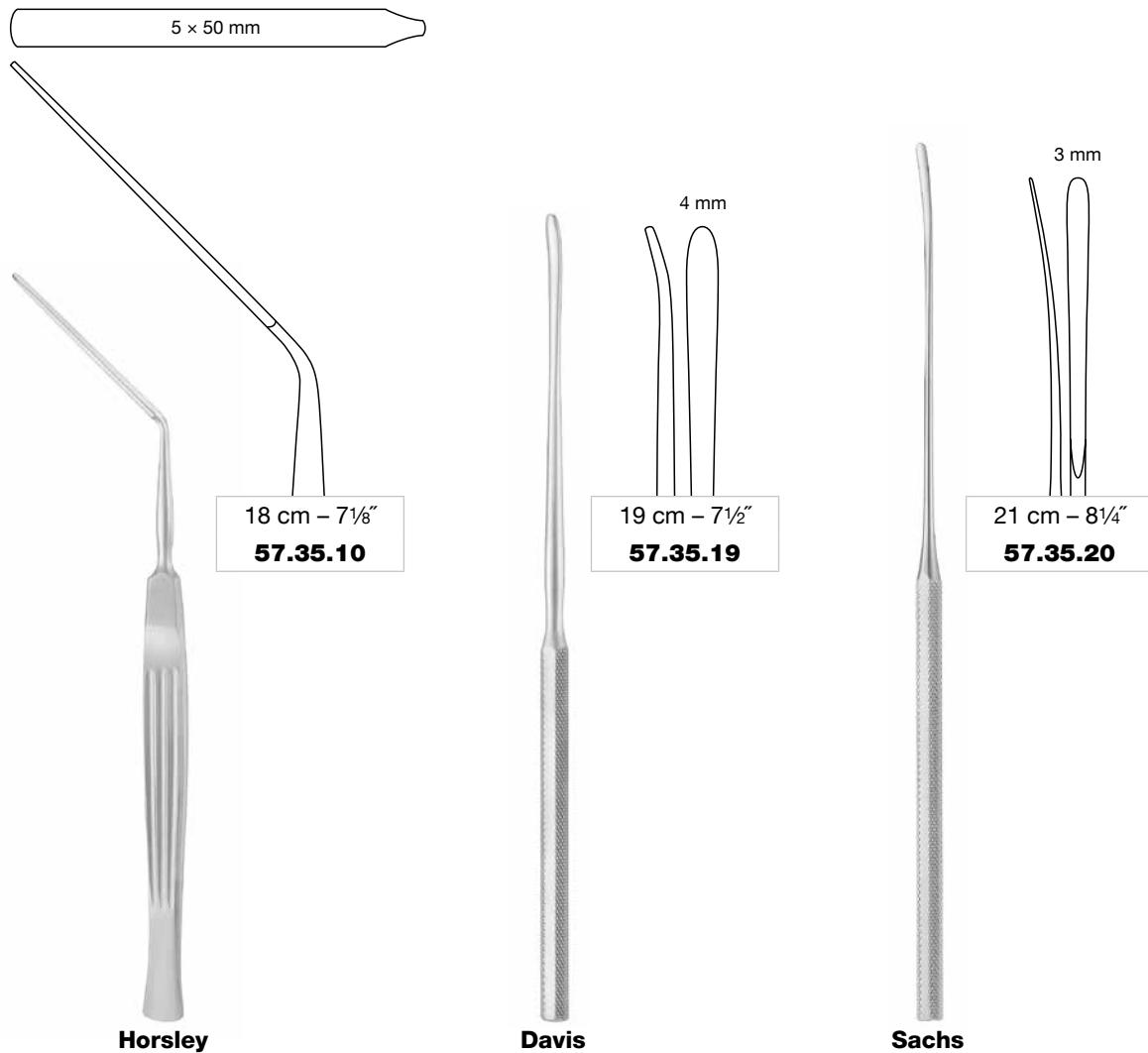
**B05****Haken
Hooks
Ganchos
Crochetos
Uncini**

Dura- und Nerv-Separatoren
Dura and nerve separators
Separadores para duramadre y nervios
Séparateurs pour dure-mère et nerfs
Separatori per dura-madre e nervi

**Toennis****Hoen****Frazier**spitz
sharp
agudo
pointu
acuta



Dura- und Nerv-Separatoren
Dura and nerve separators
Separadores para duramadre y nervios
Séparateurs pour dure-mère et nerfs
Separatori per dura-madre e nervi

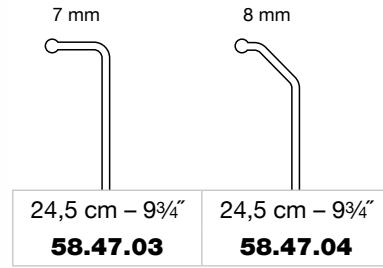
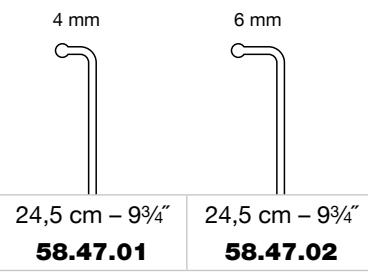
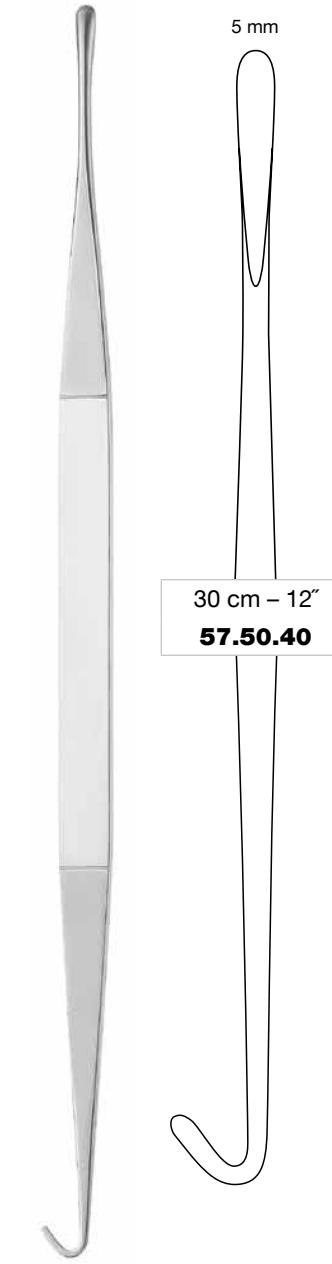


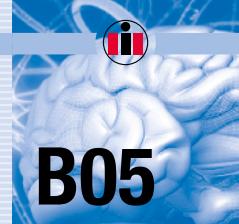
**B05****Haken
Hooks
Ganchos
Crochet
Uncini**

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch

Explorationshähkchen
Exploration hooks
Ganchitos para exploración
Crochets pour exploration
Uncini per esplorazione

Sympathektomie-Haken
Sympathectomy hook
Gancho simpatectomia
Crochet sympathetome
Uncino per simpatectomia

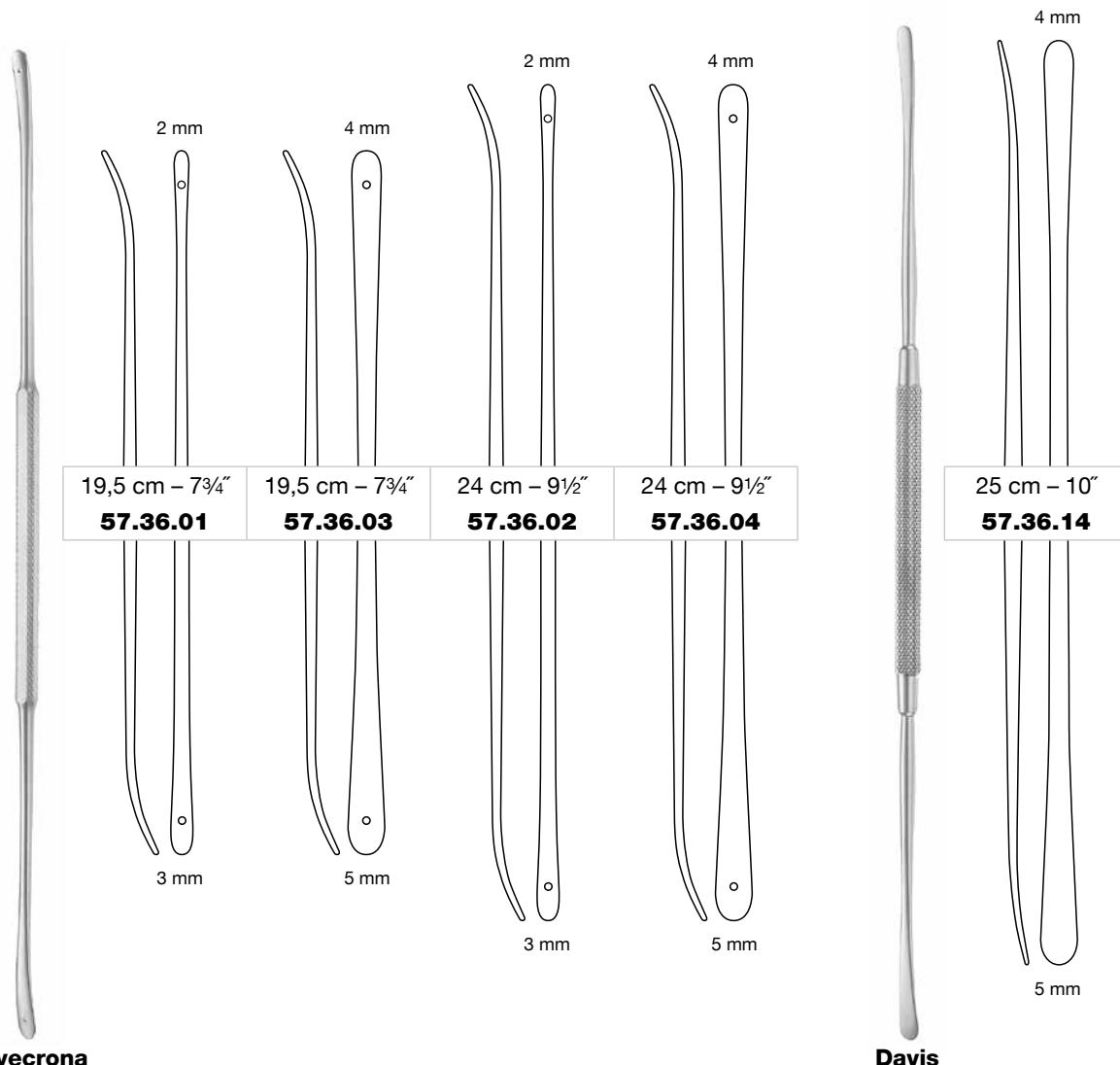
**Caspar****Smithwick**

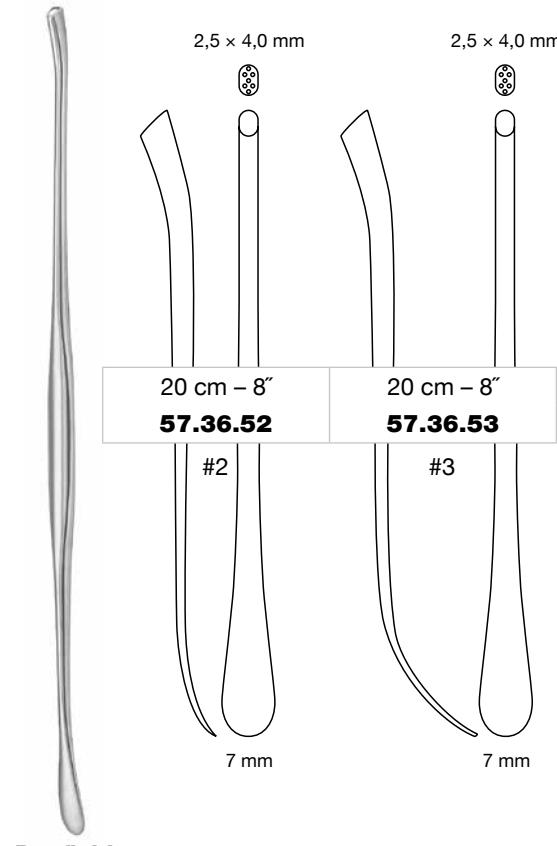
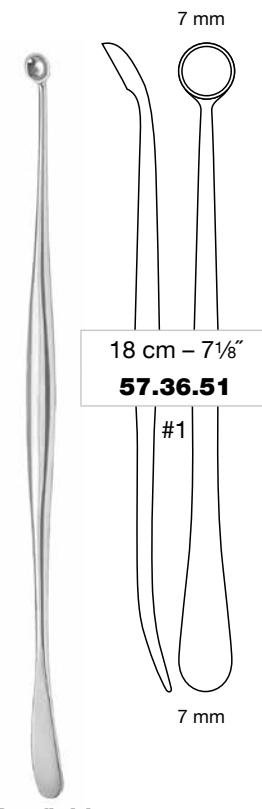


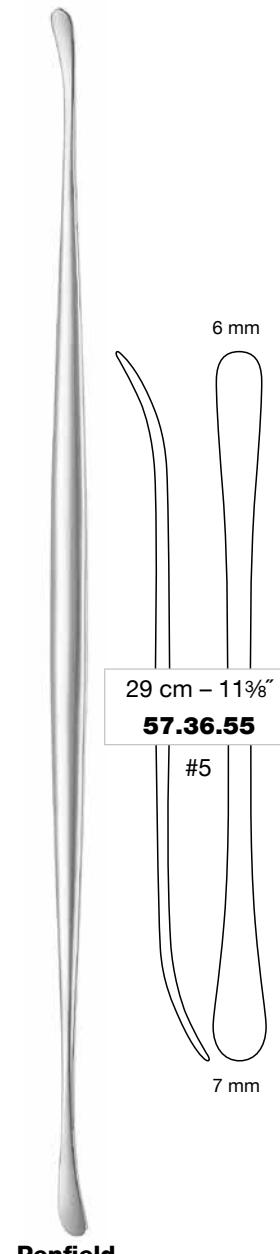
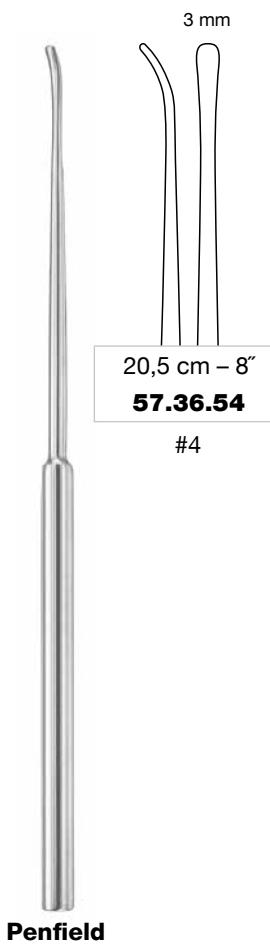
Dissektoren
Dissectors
Disectores
Dissecteurs
Dissettori

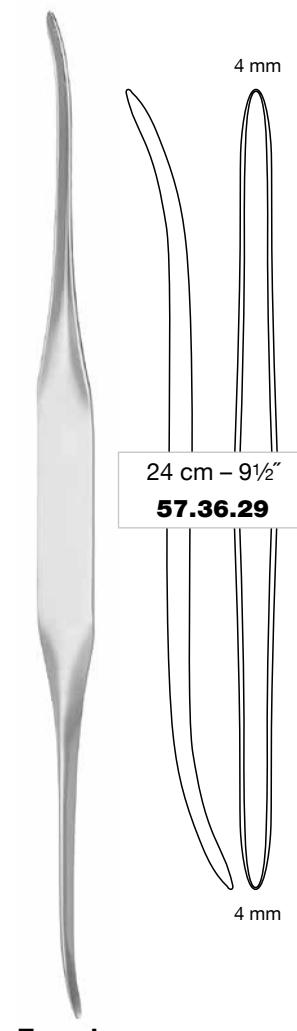
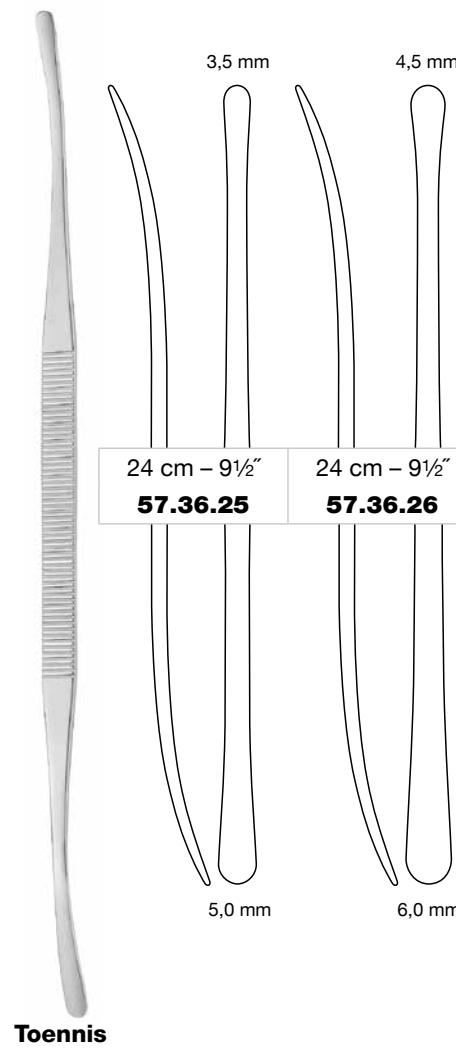
B05

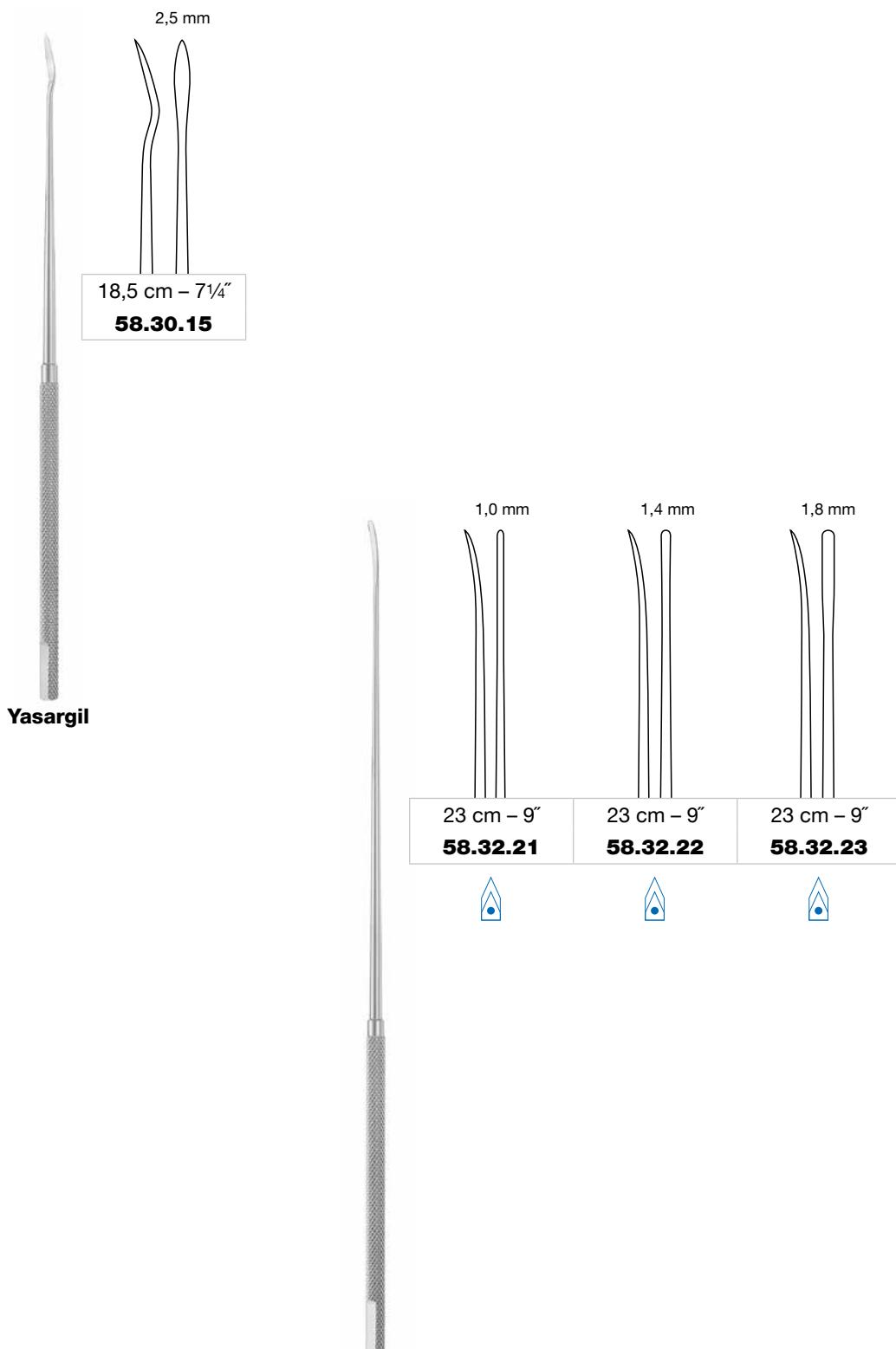
Dura-Dissektoren
Dura dissectors
Dissectores para duramadre
Dissecteurs pour dure-mère
Dissettori per dura-madre



**B05****Dissektoren**
Dissectors
Dissectores
Dissecteurs
Dissettori



**B05****Dissektoren**
Dissectors
Dissectores
Dissecteurs
Dissettoricm | inch
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21



halbscharf
semi sharp
semi cortante
semi tranchant
semi acuta

**B05****Dissektoren**
Dissectors
Dissectores
Dissecteurs
Dissettori

1,0 mm

1,5 mm

2,0 mm

19 cm - 7½"

58.32.57

19 cm - 7½"

58.32.58

19 cm - 7½"

58.32.59**Rhton**

1,2 mm

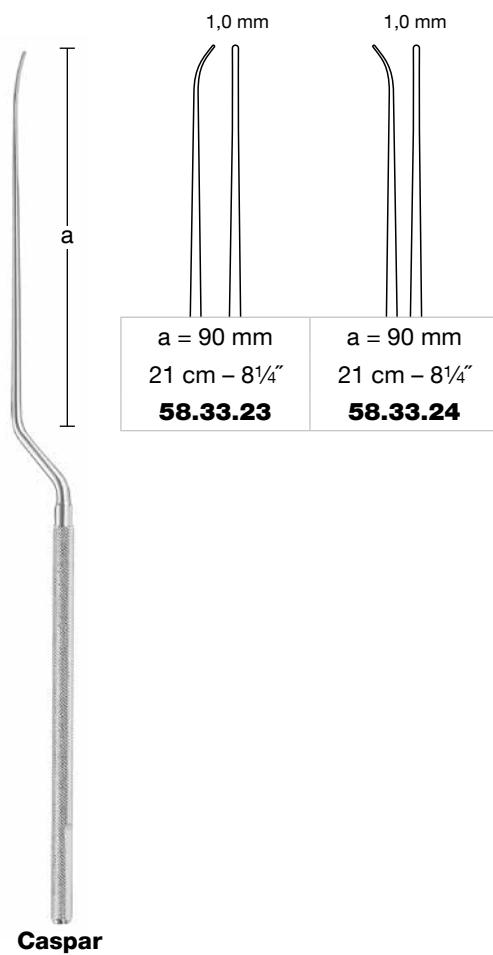
19 cm - 7½"

58.32.60

2,8 mm

19 cm - 7½"

58.32.61**Rhton****Rhton**



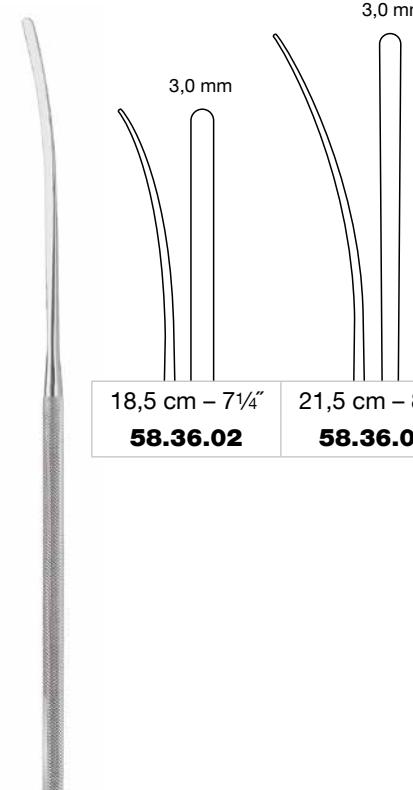
**B05****Dissektoren**
Dissectors
Dissectores
Dissecteurs
Dissettoricm | inch
21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

2,0 mm

4,5 mm

a = 110 mm
23 cm - 9"
58.33.25a = 110 mm
23 cm - 9"
58.33.26**Caspar**

4,5 mm

23 cm - 9"
58.33.27**Caspar**18,5 cm - 7 1/4"
58.36.0221,5 cm - 8 1/2"
58.36.03

3,0 mm

3,0 mm



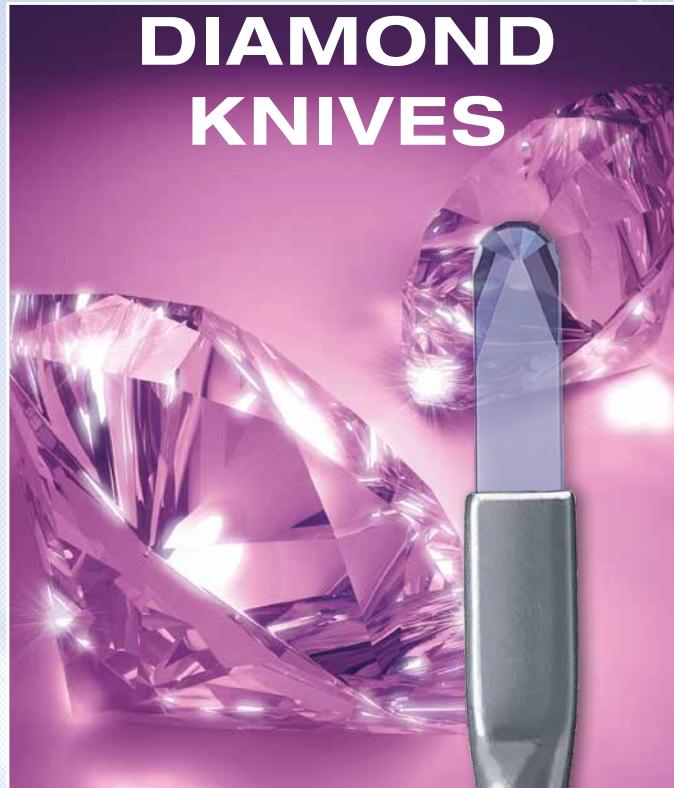
Klinge aus Naturdiamant
 Extreme und lang anhaltende Schärfe
 Gute Sichtkontrolle während der Inzision
 Präzise und kraftfreie Schnittführung
 Kein Einreißen des Gewebes während des Schneidens

Blade made of natural diamond
 Extreme and long lasting sharpness
 Excellent visual control during incision
 Precise and force-free incision
 No tissue tearing during the incision

Hoja de diamante natural
 Filo extraordinario y constante
 Buen control de la visión durante la incisión
 Corte preciso y libre de fuerza
 El tejido no rasga durante el corte

Lame de diamant naturel
 Aiguisage soit exceptionnel et de longue durée
 Bon contrôle visuel pendant l'incision
 Coupe précise et sans effort
 Pas de déchirure du tissu pendant la coupe

Lama di diamante naturale
 Affilatura straordinaria e di lunga durata
 Buon controllo visivo durante l'incisione
 Guida da taglio precisa e senza forza
 Nessun strappo del tessuto durante il taglio



Bajonettschluss zum Ein- und Ausfahren des Diamantmessers
 Bayonet lock for flexion and extension of the diamond knife
 Cierre en forma bayoneta para insertar y extraer el cuchillo de diamante
 Verrouillage en forme baïonnette pour rentrer et sortir le couteau diamant
 Chiusura a forma di baionetta per ritirare e far uscire il bisturi di diamante

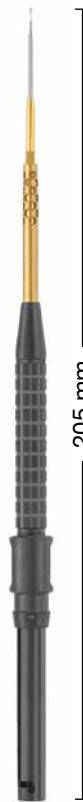


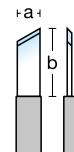
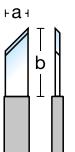
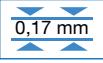
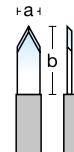
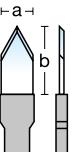
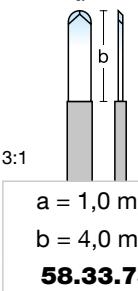
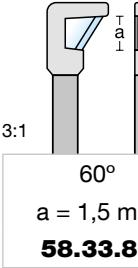
B06

Diamantmesser mit geradem Klingenthaler
Diamond Knives with Straight Blade Holder
Cuchillos de diamante con mango recto para hojas
Couteaux de diamant avec porte-lame droit
Bisturi diamantati con portalama retto



mit Spülbohrungen
 with irrigation holes
 con orificios de irrigación
 avec trous de lavage
 con fori di lavaggio



 3:1 30° $a = 1,0 \text{ mm}$ $b = 3,0 \text{ mm}$ 58.33.65	 3:1 45° $a = 1,0 \text{ mm}$ $b = 3,0 \text{ mm}$ 58.33.67	 0,17 mm
 3:1 60° $a = 1,0 \text{ mm}$ $b = 3,0 \text{ mm}$ 58.33.70	 3:1 60° $a = 1,4 \text{ mm}$ $b = 3,0 \text{ mm}$ 58.33.72	 0,17 mm
 3:1 $a = 1,0 \text{ mm}$ $b = 4,0 \text{ mm}$ 58.33.75		 0,17 mm
 3:1 60° $a = 1,5 \text{ mm}$ 58.33.80		 0,17 mm

Messerdicke
 Thickness of knives
 Grosor de los cuchillos
 Epaisseur de la lame
 Spessore dei bisturi



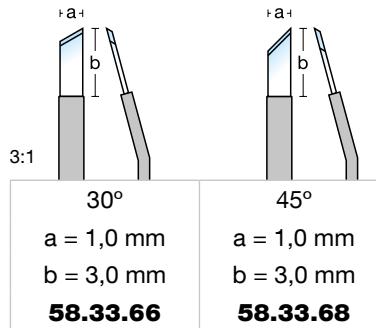
Diamantmesser mit gewinkeltem Klingenhalter

Diamond Knives with Angled Blade Holder

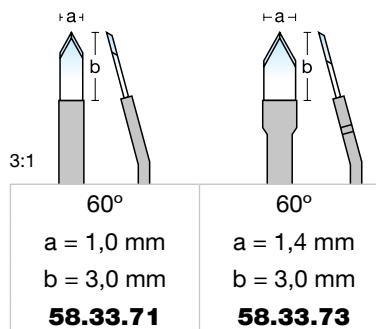
Cuchillos de diamante con mango angulado para hojas

Couteaux de diamant avec porte-lame coudé

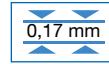
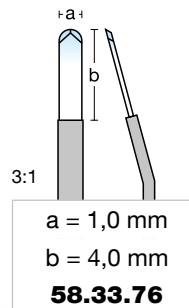
Bisturi diamantati con portalama angolato



keilförmig
wedge-shaped
cuneiforme
cunéiforme
cuneiforme



lanzenförmig
lancet-shaped
en forma de lanceta
en forme de lance
a forma di lancetta



rund
round
redondo
rond
rotondo

Kassette für 12 Instrumente
Tray for 12 instruments
Caja para 12 instrumentos
Cassette pour 12 instruments
Cassetta per 12 strumenti

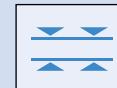
mit Haltestegen für festen und sicheren Halt
with holding device for a firm and safe storage
con dispositivo de fijación para una sujeción buena y segura
avec dispositif de fixation pour une fixation sûre
con dispositivo di fissazione per un fissaggio sicuro

**49.90.04**

203 x 114 x 30 mm



Kunststoff (autoklavierbar bis 134 °C bei 3 bar)
Plastic (autoclavable up to 134 °C at 3 bar)
Plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
Plastique (autoclavable à 134 °C sous pression de 3 bars)
Plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



Messerdicke
Thickness of knives
Grosor de los cuchillos
Epaisseur de la lame
Spessore dei bisturi

the art of surgery

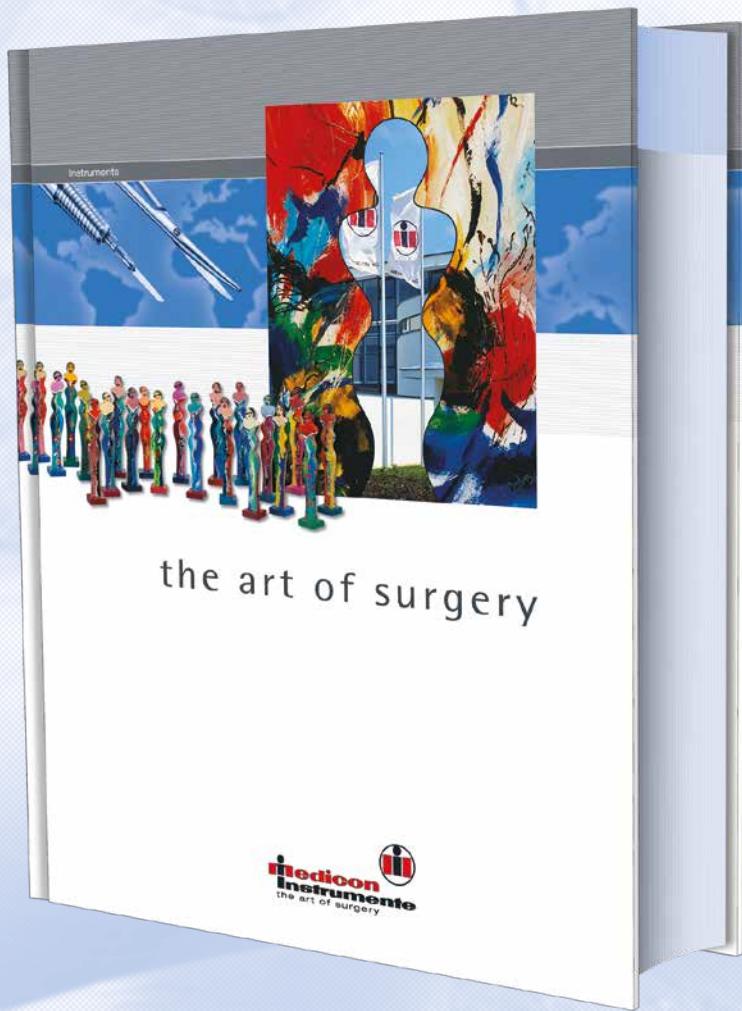
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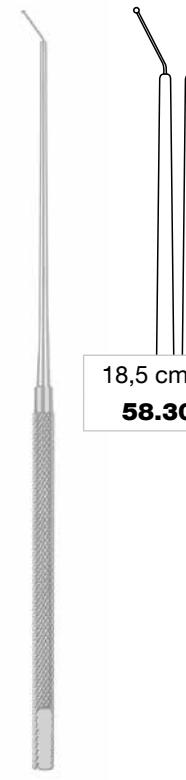
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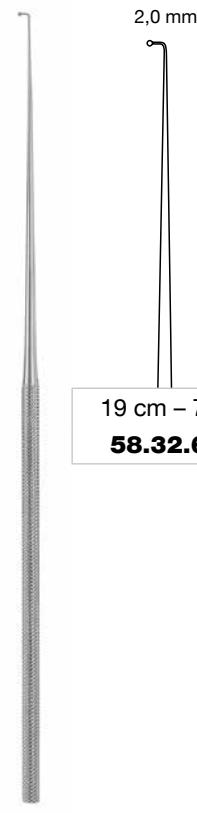
450.00.03

Knopfsonden
Button probes
Sondas abotonadas
Sondes boutonnées
Sonde buttonute



18,5 cm – 7 1/4"
58.30.20

Jacobson



19 cm – 7 1/2"
58.32.66

Rhoton

Gefäßdilatatoren
Vessel dilators
Dilatadores vasculares
Dilatateurs vasculaires
Dilatatori vascolari



Ø 0,5 mm
58.30.23

Ø 1,0 mm
58.30.24

Ø 1,5 mm
58.30.25



B06

Mikro-Instrumente
Micro Instruments
Micro instrumentos
Micro instruments
Micro strumenti

Raspatorien
Raspatories
Legras
Rugines
Periostotomi

cm | inch



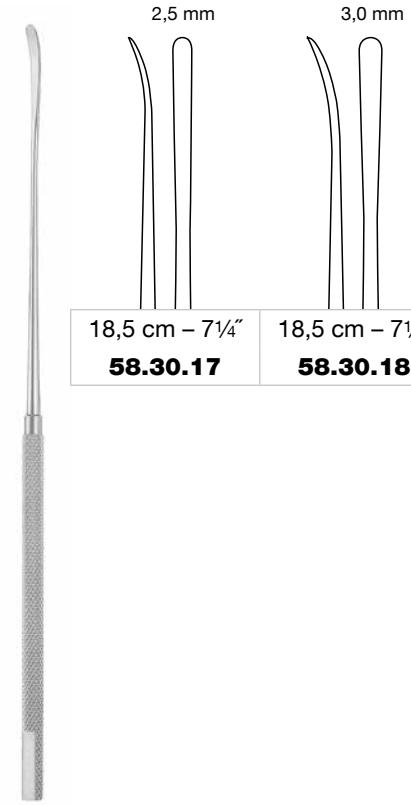
18,5 cm - 7 1/4"
58.30.10

Yasargil



18,5 cm - 7 1/4"
58.30.16

Yasargil



18,5 cm - 7 1/4" 18,5 cm - 7 1/4"
58.30.17 **58.30.18**

Yasargil



Raspatorien
Raspatories
Legras
Rugines
Periostotomi

Ø 1,0 mm

Ø 2,0 mm

Ø 3,0 mm

19 cm - 7½"

58.32.54

19 cm - 7½"

58.32.55

19 cm - 7½"

58.32.56

Rhton

2,5 mm

a = 60 mm

18,5 cm - 7¼"

58.33.17

Yasargil

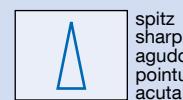
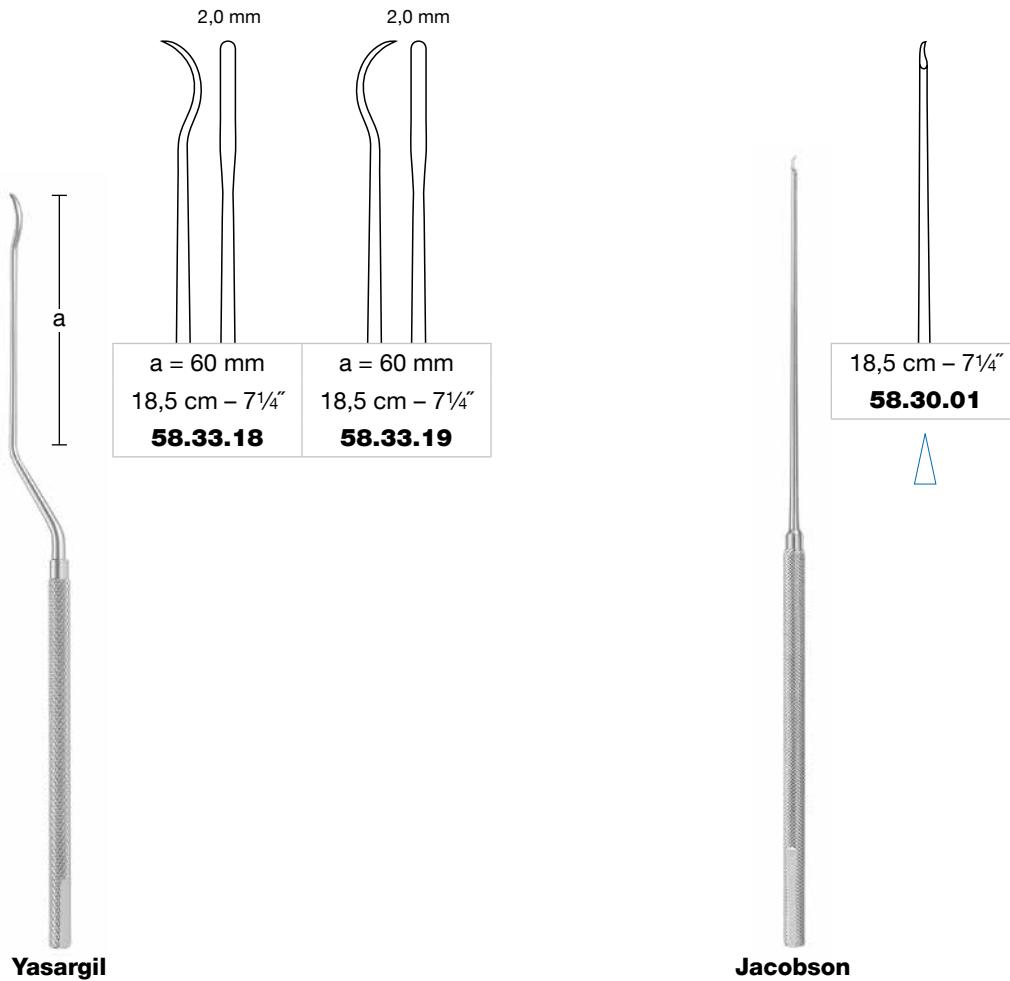


B06

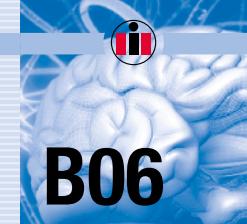
Mikro-Instrumente
Micro Instruments
Micro instrumentos
Micro instruments
Micro strumenti

Raspatorien
Raspatories
Legras
Rugines
Periostotomi

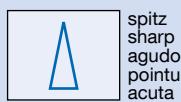
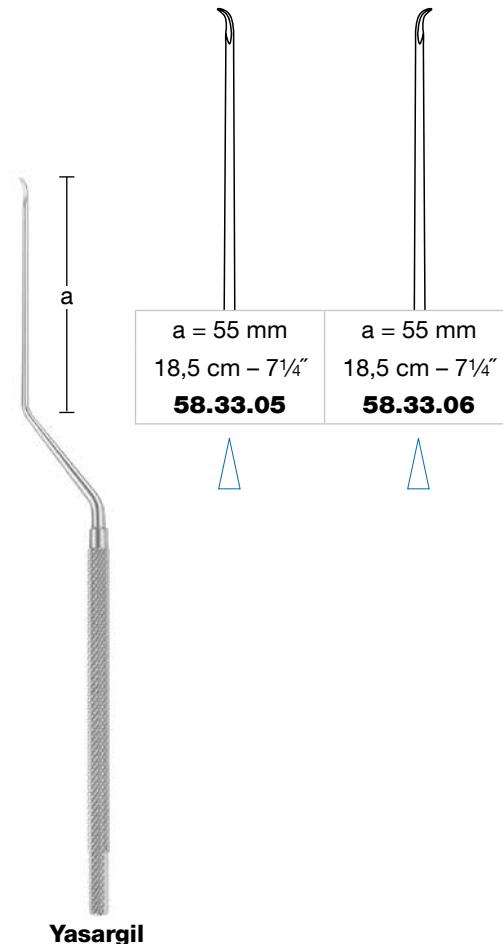
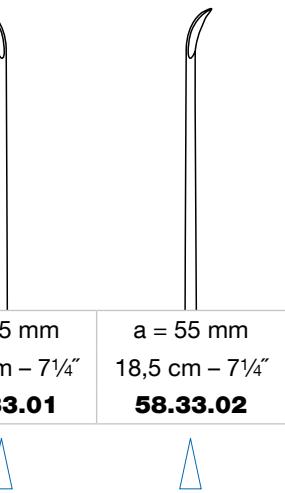
Gefäßmesser
Vessel knife
Cuchillo para vaso
Couteau pour vaisseaux
Coltello per vasi



spitz
sharp
agudo
pointu
acuta



Gefäßmesser
Vessel knives
Cuchillos para vasos
Couteaux pour vaisseaux
Coltelli per vasi



spitz
sharp
agudo
pointu
acuta

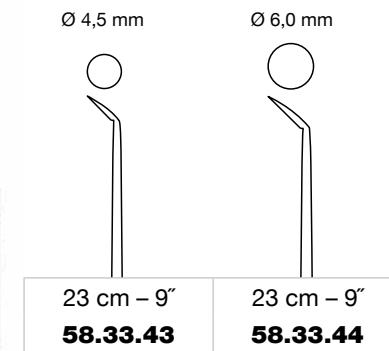
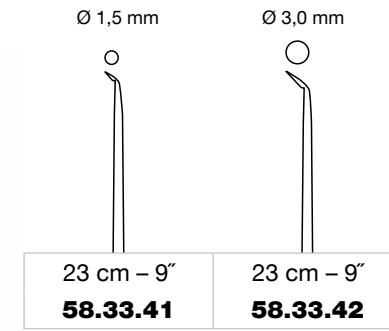
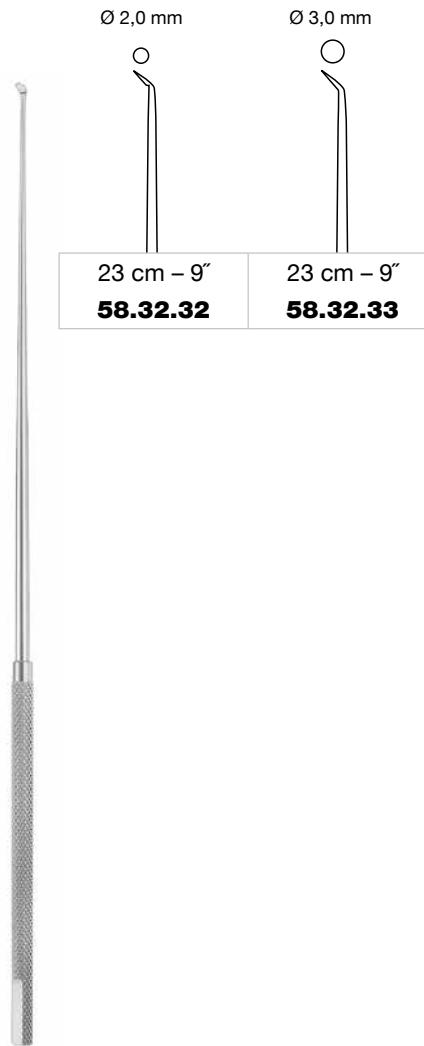


B06

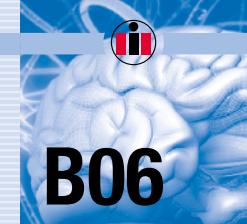
Mikro-Instrumente
Micro Instruments
Micro instrumentos
Micro instruments
Micro strumenti



Tumormesser
Tumor knives
Cuchillos para tumores
Couteaux à tumeurs
Coltelli per tumori



Samii



Lanzettenmesser

Lancet knives

Cuchillos en forma de lanceta

Couteaux lancéolaires

Coltelli lanceolati

Gewebekrallen

Tissue claws

Garras para tejido

Griffes tissulaires

Artigli per tessuti

1,8 mm

2,5 mm

23 cm - 9"
58.33.4823 cm - 9"
58.33.49

1,0 mm

18,5 cm - 7 1/4"
58.30.41

1,5 mm

18,5 cm - 7 1/4"
58.30.42

Samii



Yasargil



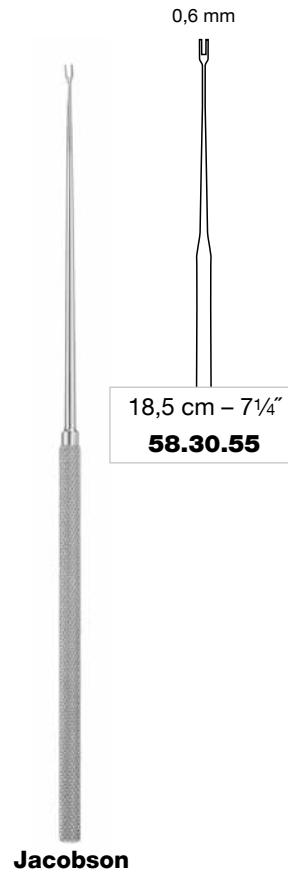
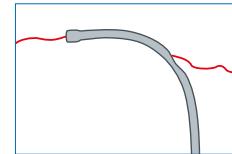
B06

Mikro-Instrumente
Micro Instruments
Micro instrumentos
Micro instruments
Micro strumenti

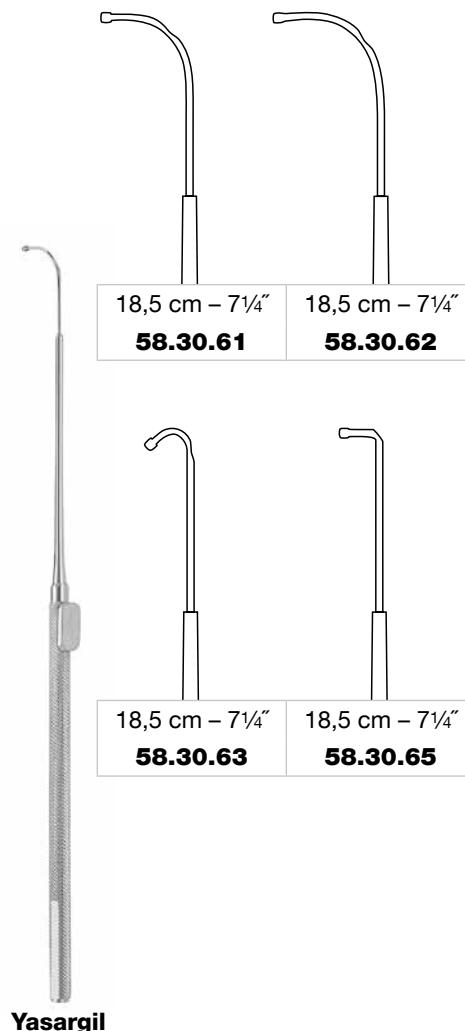


Fadengabel
Ligature fork
Horquilla de hilos
Pousse-fil
Forchetta da sutura

Fadenführer
Ligature guides
Guía-ligadura
Guide-fils
Passafilo

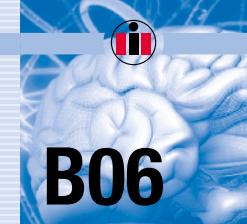


18,5 cm - 7 1/4"
58.30.55



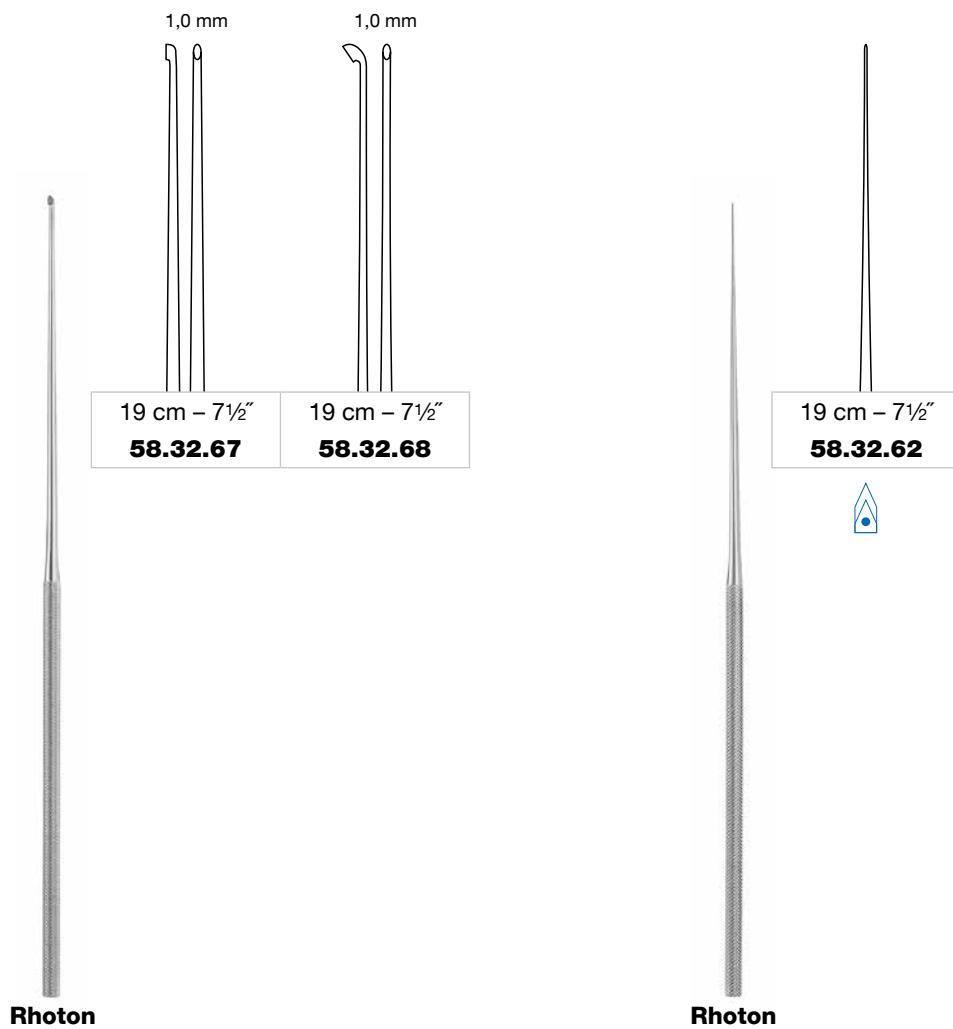
18,5 cm - 7 1/4" 18,5 cm - 7 1/4"
58.30.61 **58.30.62**

18,5 cm - 7 1/4" 18,5 cm - 7 1/4"
58.30.63 **58.30.65**



Scharfe Löffel
Sharp curettes
Cucharillas cortantes
Curettes tranchantes
Cucchiai taglienti

Nadel
Needle
Aguja
Aiguille
Ago



halbscharf
semi sharp
semi cortante
semi tranchant
semi acuta



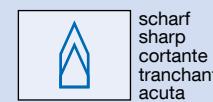
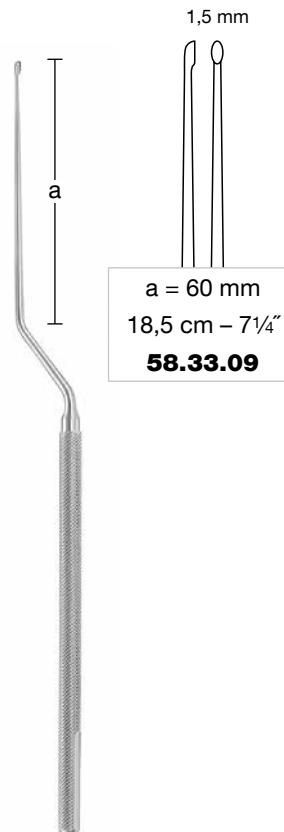
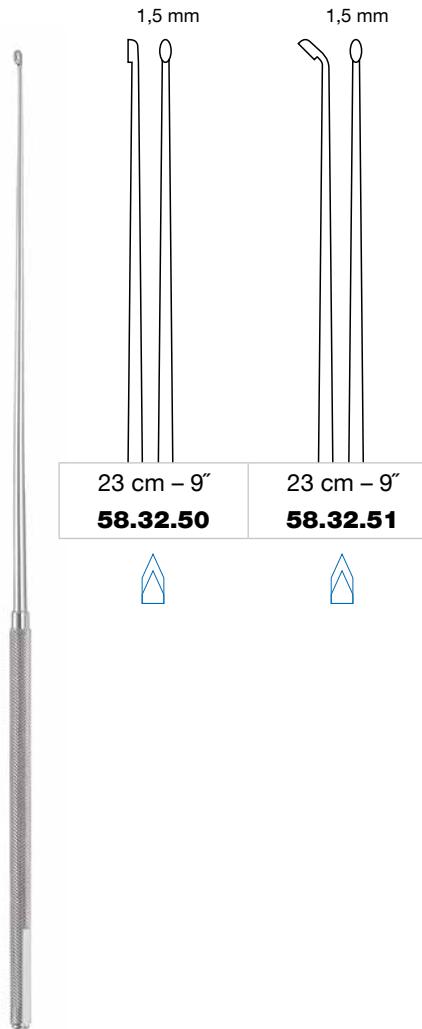
B06

Mikro-Instrumente
Micro Instruments
Micro instrumentos
Micro instruments
Micro strumenti

Küretten
Curettes
Curetas
Curettes
Curette

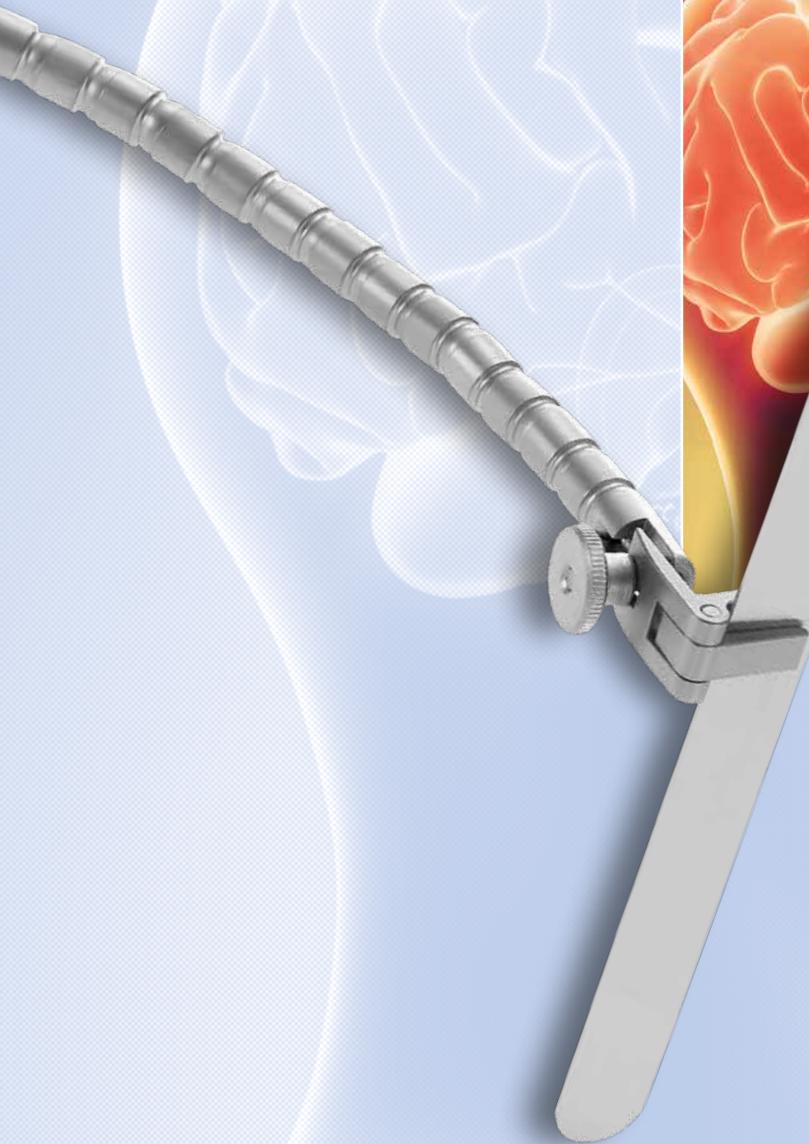
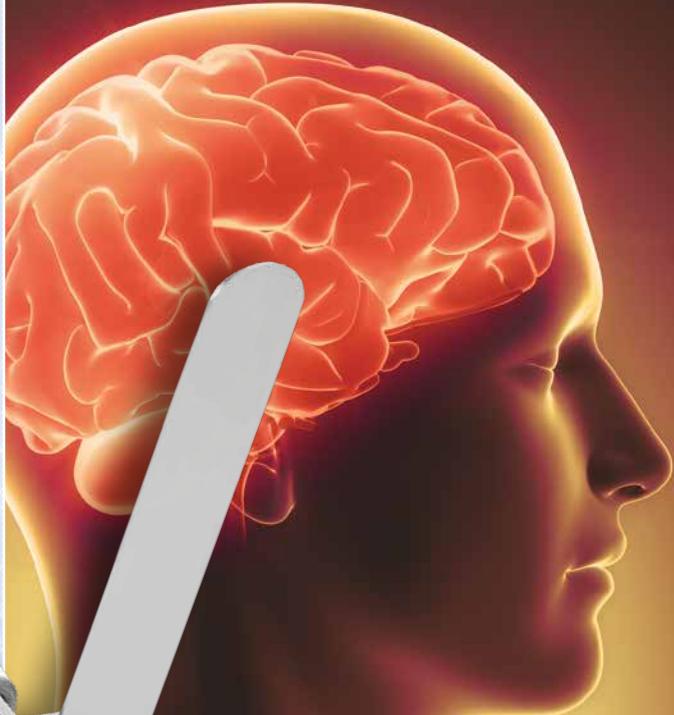
Scharfer Löffel
Sharp curette
Cucharilla cortante
Curette tranchante
Cucchiaio tagliente

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm inch



**Hirnspatel und Hirnspatelhalter****Brain Spatulas and Brain Spatula Retractors****Espátulas cerebrales y separadores para espátulas cerebrales****Spatules cérébrales et ecarteurs pour des spatules cérébrales****Spatole cerebrali e divaricatori cerebrale****B07**

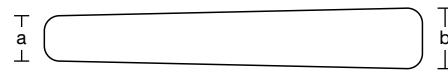
BRAIN SPATULAS





B07

Hirnspatel
Brain Spatulas
Espátulas cerebrales
Spatulas cérébrales
Spatole cerebrale

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch

Davis

a = 13 mm	18 cm - 7 1/8"	57.29.19	b = 13 mm
a = 16 mm	18 cm - 7 1/8"	57.29.20	b = 16 mm



100 mm



20 cm - 8"	57.32.14	b = 14 mm
20 cm - 8"	57.32.17	b = 17 mm
20 cm - 8"	57.32.20	b = 20 mm



100 mm

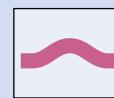


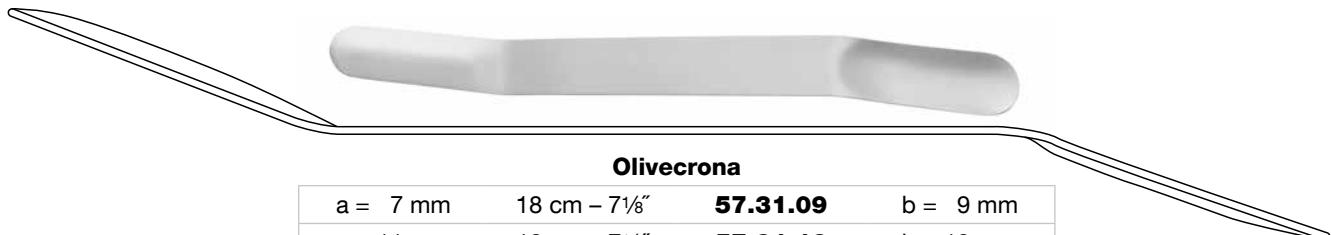
15,5 cm - 6 1/8"	57.33.08	b = 8 mm
15,5 cm - 6 1/8"	57.33.11	b = 11 mm
15,5 cm - 6 1/8"	57.33.14	b = 14 mm
15,5 cm - 6 1/8"	57.33.17	b = 17 mm



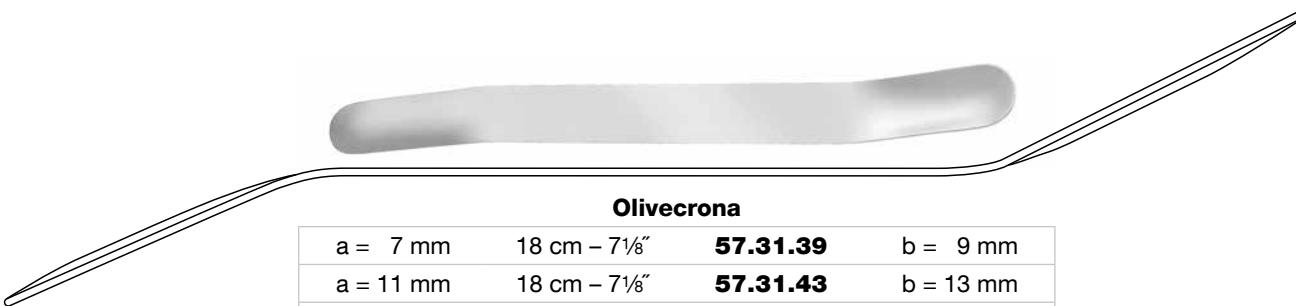
Mod. Aachen

a = 7 mm	20 cm - 8"	57.33.07	b = 8 mm
a = 10 mm	20 cm - 8"	57.33.10	b = 11 mm
a = 13 mm	20 cm - 8"	57.33.13	b = 14 mm
a = 16 mm	20 cm - 8"	57.33.16	b = 17 mm
a = 19 mm	20 cm - 8"	57.33.19	b = 20 mm
a = 22 mm	20 cm - 8"	57.33.22	b = 25 mm

biegbar
malleable
maleables
malléables
malleabili

**Olivecrona**

a = 7 mm	18 cm - 7 1/8"	57.31.09	b = 9 mm
a = 11 mm	18 cm - 7 1/8"	57.31.13	b = 13 mm
a = 15 mm	18 cm - 7 1/8"	57.31.18	b = 18 mm
a = 18 mm	18 cm - 7 1/8"	57.31.22	b = 22 mm

**Olivecrona**

a = 7 mm	18 cm - 7 1/8"	57.31.39	b = 9 mm
a = 11 mm	18 cm - 7 1/8"	57.31.43	b = 13 mm
a = 15 mm	18 cm - 7 1/8"	57.31.48	b = 18 mm
a = 18 mm	18 cm - 7 1/8"	57.31.52	b = 22 mm

**Olivecrona**

a = 7 mm	18 cm - 7 1/8"	57.31.59	b = 9 mm
a = 11 mm	18 cm - 7 1/8"	57.31.63	b = 13 mm
a = 15 mm	18 cm - 7 1/8"	57.31.68	b = 18 mm
a = 18 mm	18 cm - 7 1/8"	57.31.72	b = 22 mm



Hirnspatelhalter (selbsthaltend)
Brain Spatula Retractors (Self-Retaining)
Separadores para espátulas cerebrales (autoestático)
Ecarteur pour des spatules cérébrales (autostatique)
Divaricatori cerebrale (autostatico)

Hirnspatelhalter (selbsthaltend) mit einem flexiblen Spannarm
Brain spatula retractor (self-retaining) with one flexible tension arm
Separador para espátulas cerebrales (autoestático) con uno brazo tensor flexible
Ecarteur pour des spatules cérébrales (autostatique) avec un bras tendeur flexibles
Divaricatore cerebrale (autostatico) con uno braccio tenditore flessibile



Leyla

57.59.01		
Satz bestehend aus: Set consisting of: Juego compuesto por: Jeu composé de: Set composto da:	 Leyla	Flexibler Spannarm Flexible tension arm 57.59.10 Brazo tensor flexible Bras tendeur flexible Braccio tenditore flessibile
	 Riechert	Fixiervorrichtung am Schädel für einen Spannarm Fixation base at skull for one tension arm 57.59.21 Fijador al cráneo para uno brazo tensor Base de fixación au crâne pour un bras tendeur Fissaggio al cranio per un braccio tenditore
	 Riechert	Halter für flache Hirnspatel Holder for flat brain spatulas 57.59.30 Soporte para espátulas cerebrales planas Support pour des spatules cérébrales plates Sostegno per spatole cerebrali piatte

cm | inch





Hirnspatelhalter (selbsthaltend)
Brain Spatula Retractors (Self-Retaining)
Separadores para espátulas cerebrales (autoestático)
Ecarteurs pour des spatules cérébrales (autostatique)
Divaricatori cerebrale (autostatico)

B07

Hirnspatelhalter (selbsthaltend) mit zwei flexiblen Spannarmen
 Brain spatula retractor (self-retaining) with two flexible arms
 Separador para espátulas cerebrales (autoestático) con dos brazos tensores flexible
 Ecarteur pour des spatules cérébrales (autostatique) avec deux bras tendeurs flexibles
 Divaricatore cerebrale (autostatico) con due bracci tenditori flessibile

**57.59.02**

Satz bestehend aus: Set consisting of: Juego compuesto por: Jeu composé de: Set composto da:		 Leyla	Flexible Spannarm Flexible tension arm 57.59.10 Brazo tensor flexible Bras tendeur flexible Braccio tenditore flessibile	2x
		57.59.22	Fixiervorrichtung am Schädel für zwei Spannarme Fixation base at skull for two tension arms 57.59.22 Fijador al cráneo para dos brazos tensores Base de fixación au crâne pour deux bras tendeurs Fissaggio al cranio per due bracci tenditori	1x
		57.59.30	Halter für flache Hirnspatel Holder for flat brain spatulas 57.59.30 Soporte para espátulas cerebrales planas Support pour des spatules cérébrales plates Sostegno per spatole cerebrali piatte	2x



Einzelkomponente (siehe Seite 205)
 Single components (see page 205)
 Componentes individuales (véase página 205)
 Composants individuels (voir page 205)
 Componenti singoli (vedi pagina 205)

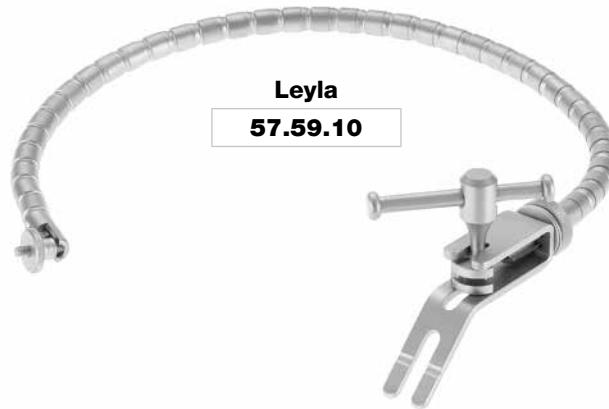


B07

Hirnspatelhalter (Einzelkomponente)
Brain Spatula Retractors (Single Components)
Separadores para espátulas cerebrales (componentes individuales)
Ecarteurs pour des spatules cérébrales (composants individuels)
Divaricatori cerebrale (componenti singoli)

21
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cm | inch

Flexibler Spannarm
Flexible tension arm
Brazo tensor flexible
Bras tendeur flexible
Braccio tenditore flessibile



Leyla

57.59.10

Fixiervorrichtung am Schädel für einen Spannarm
Fixation base at skull for one tension arm
Fijador al cráneo para uno brazo tensor
Base de fixation au crâne pour un bras tendeur
Fissaggio al cranio per un braccio tenditore



Riechert

57.59.21

Fixiervorrichtung am Schädel für zwei Spannarme
Fixation base at skull for two tension arms
Fijador al cráneo para dos brazos tensores
Base de fixation au crâne pour deux bras tendeurs
Fissaggio al cranio per due bracci tenditori



Riechert

57.59.22

Halter für flache Hirnspatel
Holder for flat brain spatulas
Soporte para espátulas cerebrales planas
Support pour des spatules cérébrales plates
Sostegno per spatole cerebrali piatte



Riechert

57.59.30



Die Instrumente sind nicht proportional dargestellt.
The instruments are not illustrated proportionally.
Los instrumentos no están representados proporcionalmente.
Les instruments sont représentés à une échelle différente.
Gli strumenti non sono rappresentati in proporzione.



Fixiervorrichtung am OP-Tisch oder "FIXIT"-Schädelklemme
 Fixation base at operating table or "FIXIT" head rest
 Fijador para la mesa operatoria o fijador craneal "FIXIT"
 Base de fixation au table d'opération ou maintien crânien "FIXIT"
 Fissaggio al tavolo operatorio o testiera "FIXIT"



FiXit
HEAD REST SYSTEM



57.59.26

Halter für flache Hirnspatel mit Rundgriff
 Holder for flat brain spatulas with round handle
 Soporte para espátulas cerebrales planas con mango redondo
 Support pour des spatules cérébrales plates avec manche rond
 Sostegno per spatole cerebrali piatte con manico rotondo



57.59.32



$\varnothing \leq 5,5$ mm



Auch geeignet für Instrumente mit Rundgriff
 Also suitable for instruments with round handle
 Recomendado también para instrumentos con mangos redondos
 Conviennent aussi pour instruments à manche rond
 Anche adatto per strumenti con manico rotondo



Die Instrumente sind nicht proportional dargestellt.
 The instruments are not illustrated proportionally.
 Los instrumentos no están representados proporcionalmente.
 Les instruments sont représentés à une échelle différente.
 Gli strumenti non sono rappresentati in proporzione.



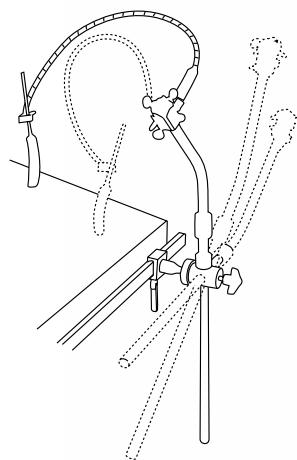
B07

**Haltearm (starr) für LEYLA Hirnspatelhalter
Holding Arm (rigid) for LEYLA Brain Retractors
Brazo de soporte (rigido) para LEYLA separador para espátulas cerebrales
Bras de support (rigide) pour LEYLA écarteur pour des spatules cérébrales
Braccio di supporto (rigido) per LEYLA divaricatore per spatole cerebrali**

360°

57.59.42

Kupplungskopf für maximal 5 flexible Spannarme
Coupling head für maximum 5 flexible tension arms
Cabeza de acoplamiento para máximo 5 brazos tensores flexibles
Tête d'accouplement pour maximum 5 bras tendeurs flexibles
Testa d'accoppiamento per massimo 5 bracci tenditori flessibili

**57.59.41**

Haltearm (starr), zweiteilig
Holding arm (rigid), two parts
Brazo de soporte (rigido), de dos partes
Bras de support (rigide), en deux parties
Braccio di supporto (rigido), da due pezzi

**57.59.43**

Tischfixierung mit Kugelgelenk
Table fixation with ball joint
Fijación de mesa con articulación esférica
Fixation de table avec articulation sphérique
Fissaggio per tavolo con articolazione sferica

57.59.45

Satz bestehend aus: Set consisting of: Juego compuesto por: Jeu composé de: Set composto da:	57.59.41 Coupling head für maximum 5 flexible tension arms 1x
	57.59.42 Holding arm (rigid), two parts 1x
	57.59.43 Table fixation with ball joint 1x

cm | inch



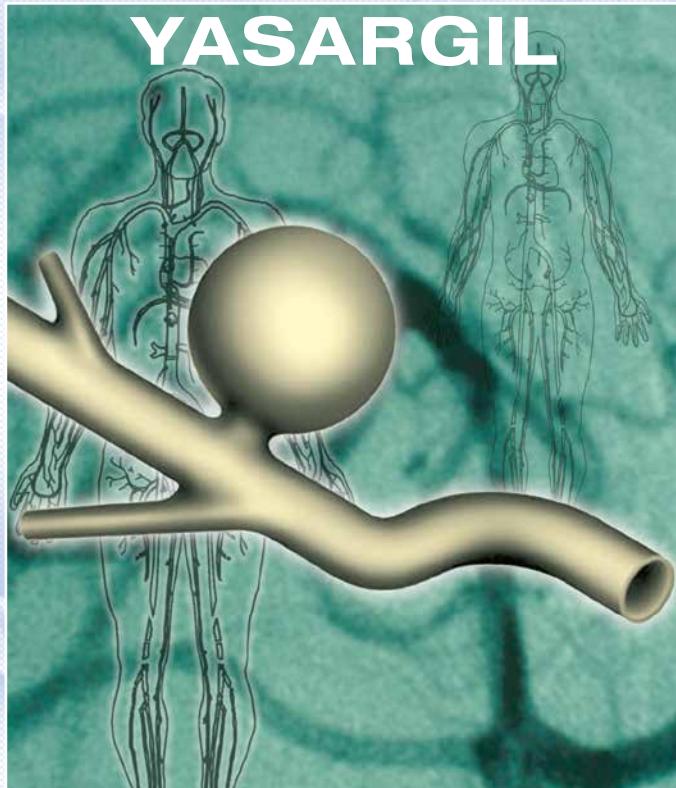
Die Farbliche Kennzeichnung ermöglicht eine gute Identifikation der permanenten und temporären Clips. Die Clips sind aus TITAN oder PHYNOX hergestellt und besitzen eine MRT-Kompatibilität bis zu einer Feldstärke von 3 Tesla.

The colour markings allow good identification of permanent and temporary clips. The clips are made of TITANIUM or PHYNOX and have an MRT compatibility up to a field strength of 3 Tesla.

El código de color permite identificar fácilmente los clips permanentes y temporales. Los clips están fabricados en TITANIO o PHYNOX y son compatibles para TRM con intensidades de campo de hasta 3 Teslas.

Le code couleur utilisé permet de parfaitement identifier les clips temporaires et permanents. Les clips sont fabriqués en TITANE ou PHYNOX et sont compatibles avec les TRM jusqu'à une puissance de champ de 3 Tesla.

La marcatura colorata rende possibile una buona identificazione delle clip permanenti e temporanee. Le clip sono realizzate in TITANIO o PHYNOX e sono compatibili con la risonanza magnetica fino ad una intensità di campo magnetico di 3 Tesla.



**Clipausführungen: STANDARD und MINI****Typ of clip: STANDARD and MINI****Modelos de clip: STANDARD y MINI****Types de clips: STANDARD et MINI****Modello clip: STANDARD e MINI****STANDARD**

TITANIUM



PHYNOX

permanent
permanent
permanente
permanent
permanentetemporär
temporary
temporal
temporaire
temporaneo**STANDARD**gefenstert
fenestrated
fenestrado
fenestré
fenestrato

TITANIUM



PHYNOX

permanent
permanent
permanente
permanent
permanentetemporär
temporary
temporal
temporaire
temporaneo**MINI**

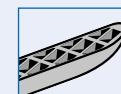
TITANIUM



PHYNOX

permanent
permanent
permanente
permanent
permanentetemporär
temporary
temporal
temporaire
temporaneo

Verpackungseinheit 1 Clip (nicht steril). Verpackung mit Clip-Identifikation.
Packing unit 1 clip (non-sterile). Packing with clip identification.
Paquete de 1 clip (no estéril). Paquete con identificación del clip.
Emballage unitaire de 1 clip (non stérile). Emballage avec identification du clip.
Confezione da 1 clip (non sterile). Confezione con identificazione della clip.

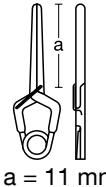
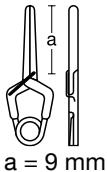
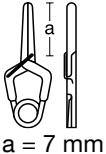


atraumatische Maulteile
atraumatic jaws
boca atraumatica
mors atraumatiques
morsi atraumatici



YASARGIL

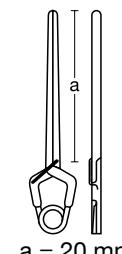
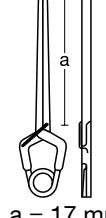
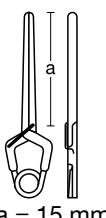
STANDARD



TITANIUM	PHYNOX
6,2 mm	6,2 mm
permanent F = 150 g	permanent F = 150 g
58.60.08	58.54.08
temporary F = 110 g	temporary F = 110 g
58.60.58	58.54.58

TITANIUM	PHYNOX
7,0 mm	7,0 mm
permanent F = 180 g	permanent F = 180 g
58.60.10	58.54.10
temporary F = 90 g	temporary F = 90 g
58.60.60	58.54.60

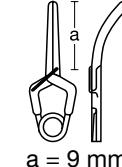
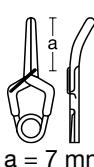
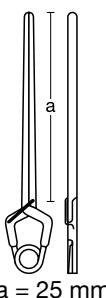
TITANIUM	PHYNOX
7,8 mm	7,8 mm
permanent F = 180 g	permanent F = 180 g
58.60.12	58.54.12
temporary F = 90 g	temporary F = 90 g
58.60.62	58.54.62



TITANIUM	PHYNOX
9,2 mm	9,2 mm
permanent F = 200 g	permanent F = 200 g
58.60.16	58.54.16
temporary F = 90 g	temporary F = 90 g
58.60.66	58.54.66

TITANIUM	PHYNOX
10,6 mm	10,6 mm
permanent F = 200 g	permanent F = 200 g
58.60.18	58.54.18
temporary F = 90 g	temporary F = 90 g
58.60.67	58.54.67

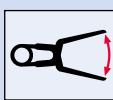
TITANIUM	PHYNOX
11,4 mm	11,4 mm
permanent F = 200 g	permanent F = 200 g
58.60.21	58.54.21
temporary F = 110 g	temporary F = 110 g
58.60.71	58.54.71



TITANIUM	PHYNOX
13,3 mm	13,3 mm
permanent F = 200 g	permanent F = 200 g
58.60.26	58.54.26
temporary F = 110 g	temporary F = 110 g
58.60.72	58.54.72

TITANIUM	PHYNOX
6,0 mm	6,0 mm
permanent F = 150 g	permanent F = 150 g
58.61.08	58.55.08
temporary F = 110 g	temporary F = 110 g
58.61.58	58.55.58

TITANIUM	PHYNOX
6,8 mm	6,8 mm
permanent F = 180 g	permanent F = 180 g
58.61.10	58.55.10
temporary F = 90 g	temporary F = 90 g
58.61.60	58.55.60



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura

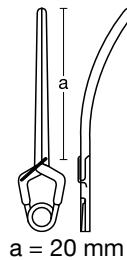
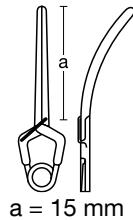
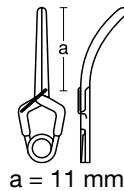


Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



YASARGIL

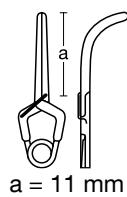
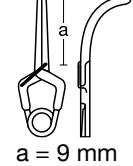
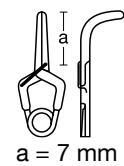
STANDARD



TITANIUM	PHYNOX
7,5 mm	7,5 mm
permanent F = 180 g temporary F = 90 g	permanent F = 180 g temporary F = 90 g
58.61.12	58.55.12
58.61.64	58.55.64

TITANIUM	PHYNOX
8,7 mm	8,7 mm
permanent F = 200 g temporary F = 110 g	permanent F = 200 g temporary F = 110 g
58.61.16	58.55.16
58.61.66	58.55.66

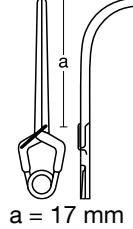
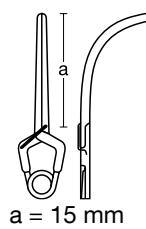
TITANIUM	PHYNOX
11,0 mm	11,0 mm
permanent F = 200 g temporary F = 90 g	permanent F = 200 g temporary F = 90 g
58.61.20	58.55.20
58.61.71	58.55.71



TITANIUM	PHYNOX
5,5 mm	5,5 mm
permanent F = 150 g temporary F = 110 g	permanent F = 150 g temporary F = 110 g
58.61.28	58.55.28
58.61.72	58.55.72

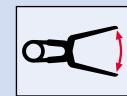
TITANIUM	PHYNOX
6,1 mm	6,1 mm
permanent F = 180 g temporary F = 110 g	permanent F = 180 g temporary F = 110 g
58.61.30	58.55.30
58.61.80	58.55.80

TITANIUM	PHYNOX
6,5 mm	6,5 mm
permanent F = 180 g temporary F = 110 g	permanent F = 180 g temporary F = 110 g
58.61.32	58.55.32
58.61.81	58.55.81



TITANIUM	PHYNOX
7,4 mm	7,4 mm
permanent F = 200 g temporary F = 110 g	permanent F = 200 g temporary F = 110 g
58.61.36	58.55.36
58.61.86	58.55.86

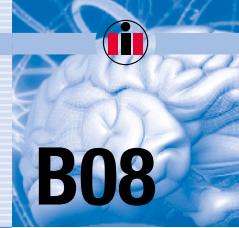
TITANIUM	PHYNOX
9,9 mm	9,9 mm
permanent F = 200 g temporary F = 90 g	permanent F = 110 g temporary F = 90 g
58.61.17	58.55.17
58.61.91	58.55.91



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura

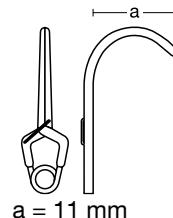
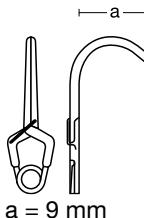
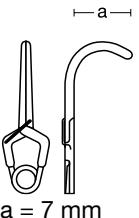


Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura


YASARGIL
STANDARD

Zerebrovaskuläre Clips
 Cerebrovascular Clips
 Clips cerebrovasculare
 Clips vasculaires cérébraux
 Clip cerebrovascolari

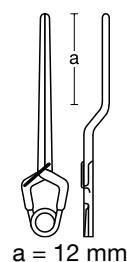
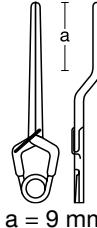
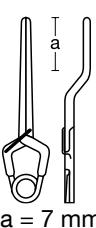
B08



TITANIUM	PHYNOX
5,4 mm	5,4 mm
permanent F = 180 g	permanent F = 180 g
58.61.37	58.55.37
temporary F = 110 g	temporary F = 110 g
58.61.92	58.55.92

TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 180 g	permanent F = 180 g
58.61.38	58.55.38
temporary F = 110 g	temporary F = 110 g
58.61.94	58.55.94

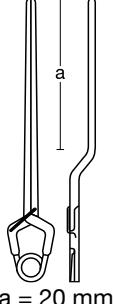
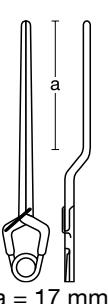
TITANIUM	PHYNOX
6,2 mm	6,2 mm
permanent F = 180 g	permanent F = 180 g
58.61.39	58.55.39
temporary F = 110 g	temporary F = 110 g
58.61.95	58.55.95



TITANIUM	PHYNOX
7,9 mm	7,9 mm
permanent F = 200 g	permanent F = 200 g
58.61.43	58.55.43
temporary F = 90 g	temporary F = 90 g
58.63.06	58.59.06

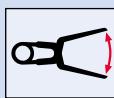
TITANIUM	PHYNOX
8,7 mm	8,7 mm
permanent F = 200 g	permanent F = 200 g
58.61.45	58.55.45
temporary F = 90 g	temporary F = 90 g
58.63.09	58.59.09

TITANIUM	PHYNOX
10,2 mm	10,2 mm
permanent F = 200 g	permanent F = 200 g
58.61.44	58.55.44
temporary F = 90 g	temporary F = 90 g
58.63.12	58.59.12



TITANIUM	PHYNOX
11,9 mm	11,9 mm
permanent F = 180 g	permanent F = 180 g
58.61.47	58.55.47
temporary F = 90 g	temporary F = 90 g
58.63.17	58.59.17

TITANIUM	PHYNOX
13,0 mm	13,0 mm
permanent F = 180 g	permanent F = 180 g
58.61.46	58.55.46
temporary F = 90 g	temporary F = 90 g
58.63.20	58.59.20



Öffnungsweite
 Opening width
 Abertura de ancho
 Largeur d'ouverture
 Larghezza dell'apertura



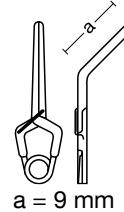
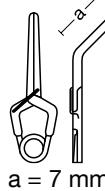
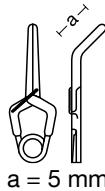
Schließkraft
 Closing pressure
 Fuerza de cierre
 Force de fermeture
 Forza di chiusura



YASARGIL

STANDARD

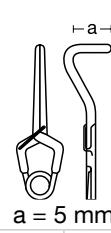
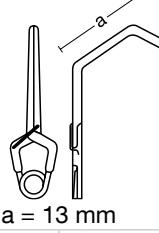
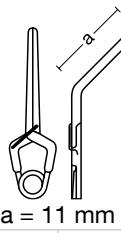
21

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TITANIUM	PHYNOX
6,2 mm	6,2 mm
permanent F = 200 g  58.61.50	permanent F = 200 g  58.55.50
temporary F = 110 g  58.61.85	temporary F = 110 g  58.59.85

TITANIUM	PHYNOX
6,5 mm	6,5 mm
permanent F = 200 g  58.61.51	permanent F = 200 g  58.55.51
temporary F = 110 g  58.61.87	temporary F = 110 g  58.55.87

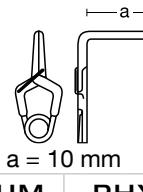
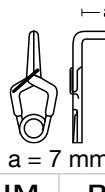
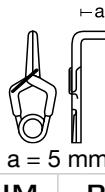
TITANIUM	PHYNOX
7,8 mm	7,8 mm
permanent F = 200 g  58.61.48	permanent F = 200 g  58.55.48
temporary F = 110 g  58.61.89	temporary F = 110 g  58.55.89



TITANIUM	PHYNOX
8,4 mm	8,4 mm
permanent F = 200 g  58.61.52	permanent F = 200 g  58.55.52
temporary F = 110 g  58.61.90	temporary F = 110 g  58.55.90

TITANIUM	PHYNOX
7,5 mm	7,5 mm
permanent F = 200 g  58.61.96	permanent F = 200 g  58.55.96
temporary F = 90 g  58.61.93	temporary F = 90 g  58.55.93

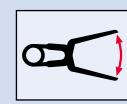
TITANIUM	PHYNOX
7,2 mm	7,2 mm
permanent F = 200 g  58.61.65	permanent F = 200 g  58.55.65
temporary F = 90 g  58.65.25	temporary F = 90 g  58.63.25



TITANIUM	PHYNOX
5,6 mm	5,6 mm
permanent F = 200 g  58.61.55	permanent F = 200 g  58.55.55
temporary F = 130 g  58.65.05	temporary F = 130 g  58.63.05

TITANIUM	PHYNOX
5,6 mm	5,6 mm
permanent F = 200 g  58.61.49	permanent F = 200 g  58.55.49
temporary F = 130 g  58.65.07	temporary F = 130 g  58.63.07

TITANIUM	PHYNOX
5,6 mm	5,6 mm
permanent F = 200 g  58.61.57	permanent F = 200 g  58.55.57
temporary F = 130 g  58.65.10	temporary F = 130 g  58.63.10



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura



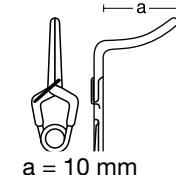
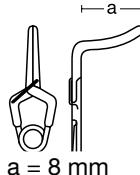
Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



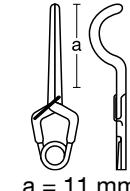
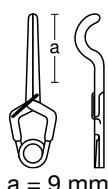
YASARGIL
STANDARD

Zerebrovaskuläre Clips
Cerebrovascular Clips
Clips cerebrovasculare
Clips vasculaires cérébraux
Clip cerebrovascolari

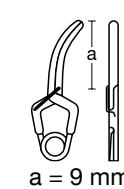
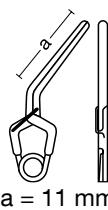
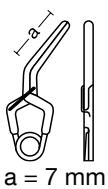
B08



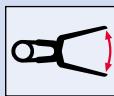
TITANIUM		PHYNOX	
	5,4 mm		5,4 mm
permanent	F = 200 g	permanent	F = 200 g
	58.61.62		58.55.62
temporary	F = 130 g	temporary	F = 130 g
	58.65.08		58.63.08
TITANIUM		PHYNOX	
	5,6 mm		5,6 mm
permanent	F = 200 g	permanent	F = 200 g
	58.61.63		58.55.63
temporary	F = 130 g	temporary	F = 130 g
	58.65.21		58.63.21



TITANIUM		PHYNOX	
	7,2 mm		7,2 mm
permanent	F = 200 g	permanent	F = 200 g
	58.61.68		58.55.68
temporary	F = 90 g	temporary	F = 90 g
	58.65.29		58.63.29
TITANIUM		PHYNOX	
	8,2 mm		8,2 mm
permanent	F = 200 g	permanent	F = 200 g
	58.61.67		58.55.67
temporary	F = 90 g	temporary	F = 90 g
	58.65.31		58.63.31



TITANIUM		PHYNOX	
	5,7 mm		5,7 mm
permanent	F = 200 g	permanent	F = 200 g
	58.61.40		58.55.40
temporary	F = 90 g	temporary	F = 90 g
	58.65.37		58.63.37
TITANIUM		PHYNOX	
	8,0 mm		8,0 mm
permanent	F = 200 g	permanent	F = 200 g
	58.61.41		58.55.41
temporary	F = 90 g	temporary	F = 90 g
	58.65.41		58.63.41
TITANIUM		PHYNOX	
	6,2 mm		6,2 mm
permanent	F = 200 g	permanent	F = 200 g
	58.61.42		58.55.42
temporary	F = 90 g	temporary	F = 90 g
	58.65.49		58.63.49



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura

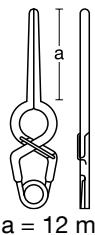
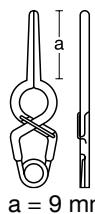
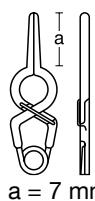


Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



gefenstert
fenestrated
fenestrado
fenêttré
fenestrato

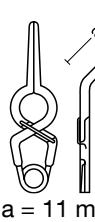
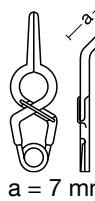
YASARGIL
3,5 mm
STANDARD



TITANIUM	PHYNOX
7,4 mm	7,4 mm
permanent F = 150 g 58.59.50	permanent F = 150 g 58.53.50
temporary F = 110 g 58.64.07	temporary F = 110 g 58.58.07

TITANIUM	PHYNOX
8,4 mm	8,4 mm
permanent F = 150 g 58.59.51	permanent F = 150 g 58.53.51
temporary F = 110 g 58.64.09	temporary F = 110 g 58.58.09

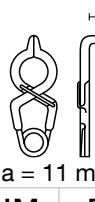
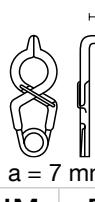
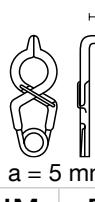
TITANIUM	PHYNOX
9,6 mm	9,6 mm
permanent F = 180 g 58.59.52	permanent F = 180 g 58.53.52
temporary F = 90 g 58.64.12	temporary F = 90 g 58.58.12



TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g 58.59.53	permanent F = 150 g 58.53.53
temporary F = 110 g 58.64.15	temporary F = 110 g 58.58.15

TITANIUM	PHYNOX
6,5 mm	6,5 mm
permanent F = 150 g 58.59.54	permanent F = 150 g 58.53.54
temporary F = 110 g 58.64.17	temporary F = 110 g 58.58.17

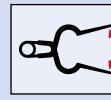
TITANIUM	PHYNOX
7,2 mm	7,2 mm
permanent F = 180 g 58.59.55	permanent F = 180 g 58.53.55
temporary F = 110 g 58.64.21	temporary F = 110 g 58.58.21



TITANIUM	PHYNOX
4,9 mm	4,9 mm
permanent F = 150 g 58.59.56	permanent F = 150 g 58.53.56
temporary F = 110 g 58.64.25	temporary F = 110 g 58.58.25

TITANIUM	PHYNOX
4,9 mm	4,9 mm
permanent F = 150 g 58.59.57	permanent F = 150 g 58.53.57
temporary F = 110 g 58.64.27	temporary F = 110 g 58.58.27

TITANIUM	PHYNOX
4,9 mm	4,9 mm
permanent F = 180 g 58.59.58	permanent F = 180 g 58.53.58
temporary F = 110 g 58.64.31	temporary F = 110 g 58.58.31



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura



Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



Zerebrovaskuläre Clips

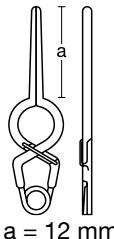
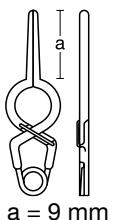
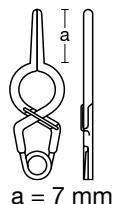
Cerebrovascular Clips

Clips cerebrovasculär

Clips vasculaires cérébraux

Clip cerebrovascolari

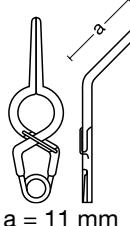
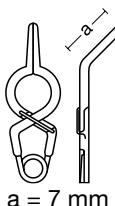
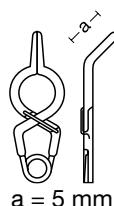
B08

YASARGIL
5,0 mm
STANDARD
gefentstert
fenestrated
fenestrado
fenêtreté
fenestrato

TITANIUM	PHYNOX
7,9 mm	7,9 mm
permanent F = 150 g	permanent F = 150 g
58.59.60	58.53.60
temporary F = 110 g	temporary F = 110 g
58.64.37	58.58.37

TITANIUM	PHYNOX
9,1 mm	9,1 mm
permanent F = 150 g	permanent F = 150 g
58.59.61	58.53.61
temporary F = 100 g	temporary F = 100 g
58.64.39	58.58.39

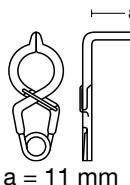
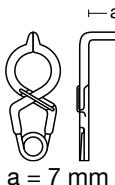
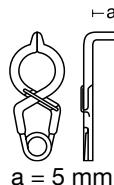
TITANIUM	PHYNOX
10,3 mm	10,3 mm
permanent F = 180 g	permanent F = 180 g
58.59.62	58.53.62
temporary F = 90 g	temporary F = 90 g
58.64.42	58.58.42



TITANIUM	PHYNOX
6,5 mm	6,5 mm
permanent F = 150 g	permanent F = 150 g
58.59.63	58.53.63
temporary F = 110 g	temporary F = 110 g
58.64.45	58.58.45

TITANIUM	PHYNOX
7,2 mm	7,2 mm
permanent F = 150 g	permanent F = 150 g
58.59.64	58.53.64
temporary F = 110 g	temporary F = 110 g
58.64.47	58.58.47

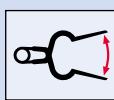
TITANIUM	PHYNOX
7,8 mm	7,8 mm
permanent F = 180 g	permanent F = 180 g
58.59.65	58.53.65
temporary F = 110 g	temporary F = 110 g
58.64.51	58.58.51



TITANIUM	PHYNOX
5,5 mm	5,5 mm
permanent F = 150 g	permanent F = 150 g
58.59.66	58.53.66
temporary F = 110 g	temporary F = 110 g
58.64.55	58.58.55

TITANIUM	PHYNOX
5,5 mm	5,5 mm
permanent F = 150 g	permanent F = 150 g
58.59.67	58.53.67
temporary F = 110 g	temporary F = 110 g
58.64.57	58.58.57

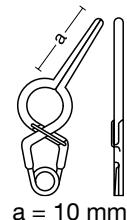
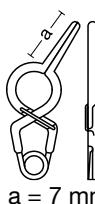
TITANIUM	PHYNOX
5,5 mm	5,5 mm
permanent F = 180 g	permanent F = 180 g
58.59.68	58.53.68
temporary F = 90 g	temporary F = 90 g
58.64.61	58.58.61

Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'aperturaSchließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



gefenstert
fenestrated
fenestrado
fenêttré
fenestrato

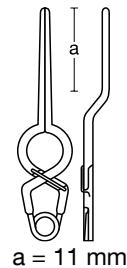
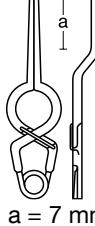
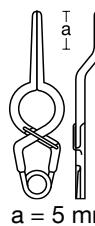
YASARGIL
5,0 mm
STANDARD



TITANIUM	PHYNOX
7,0 mm	7,0 mm
permanent F = 150 g 58.59.81	permanent F = 150 g 58.53.81
temporary F = 110 g 58.47.25	temporary F = 110 g 58.41.25

TITANIUM	PHYNOX
7,8 mm	7,8 mm
permanent F = 150 g 58.59.82	permanent F = 150 g 58.53.82
temporary F = 110 g 58.47.27	temporary F = 110 g 58.41.27

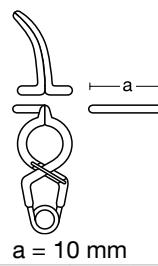
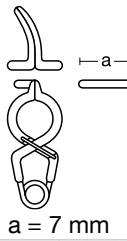
TITANIUM	PHYNOX
8,8 mm	8,8 mm
permanent F = 150 g 58.59.83	permanent F = 150 g 58.53.83
temporary F = 110 g 58.47.30	temporary F = 110 g 58.41.30



TITANIUM	PHYNOX
7,9 mm	7,9 mm
permanent F = 150 g 58.59.69	permanent F = 150 g 58.53.69
temporary F = 90 g 58.64.65	temporary F = 90 g 58.58.65

TITANIUM	PHYNOX
8,8 mm	8,8 mm
permanent F = 150 g 58.59.70	permanent F = 150 g 58.53.70
temporary F = 90 g 58.64.67	temporary F = 90 g 58.58.67

TITANIUM	PHYNOX
10,0 mm	10,0 mm
permanent F = 180 g 58.59.71	permanent F = 180 g 58.53.71
temporary F = 90 g 58.64.71	temporary F = 90 g 58.58.71

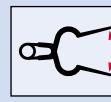


TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g 58.59.74	permanent F = 150 g 58.53.74
temporary F = 110 g 58.47.05	temporary F = 110 g 58.41.05

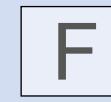
TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g 58.59.75	permanent F = 150 g 58.53.75
temporary F = 110 g 58.47.07	temporary F = 110 g 58.41.07

TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g 58.59.76	permanent F = 150 g 58.53.76
temporary F = 110 g 58.47.10	temporary F = 110 g 58.41.10

cm | inch



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura



Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



Zerebrovaskuläre Clips

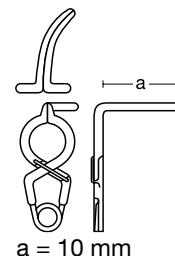
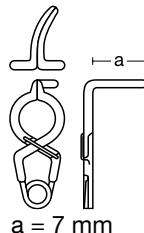
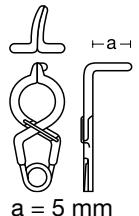
Cerebrovascular Clips

Clips cerebrovasculär

Clips vasculaires cérébraux

Clip cerebrovascolari

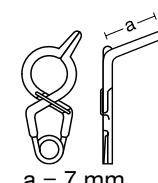
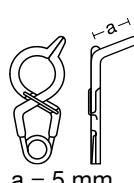
B08

YASARGIL
5,0 mm
STANDARD
gefentert
fenestrated
fenestrado
fenêtre
fenestrato

TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g	permanent F = 150 g
58.59.77	58.53.77
temporary F = 110 g	temporary F = 110 g
58.47.15	58.41.15

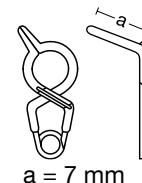
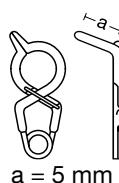
TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g	permanent F = 150 g
58.59.78	58.53.78
temporary F = 110 g	temporary F = 110 g
58.47.17	58.41.17

TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g	permanent F = 150 g
58.59.79	58.53.79
temporary F = 110 g	temporary F = 110 g
58.47.20	58.41.20



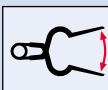
TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g	permanent F = 150 g
58.59.86	58.53.86
temporary F = 110 g	temporary F = 110 g
58.47.35	58.41.35

TITANIUM	PHYNOX
6,2 mm	6,2 mm
permanent F = 150 g	permanent F = 150 g
58.59.87	58.53.87
temporary F = 110 g	temporary F = 110 g
58.47.37	58.41.37



TITANIUM	PHYNOX
5,8 mm	5,8 mm
permanent F = 150 g	permanent F = 150 g
58.59.88	58.53.88
temporary F = 110 g	temporary F = 110 g
58.47.45	58.41.45

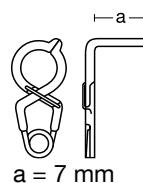
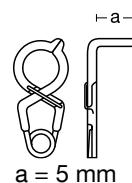
TITANIUM	PHYNOX
6,2 mm	6,2 mm
permanent F = 150 g	permanent F = 150 g
58.59.89	58.53.89
temporary F = 110 g	temporary F = 110 g
58.47.47	58.41.47

Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'aperturaSchließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



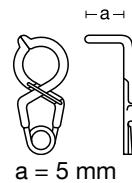
gefenstert
fenestrated
fenestrado
fenêttré
fenestrato

YASARGIL
5,0 mm
STANDARD



TITANIUM	PHYNOX
permanent 5,6 mm	permanent 5,6 mm
temporary F = 150 g	temporary F = 150 g
58.59.91	58.53.91
temporary F = 110 g	temporary F = 110 g
58.47.55	58.41.55

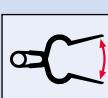
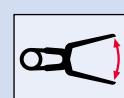
TITANIUM	PHYNOX
permanent 5,6 mm	permanent 5,6 mm
temporary F = 150 g	temporary F = 150 g
58.59.92	58.53.92
temporary F = 110 g	temporary F = 110 g
58.47.57	58.41.57



TITANIUM	PHYNOX
permanent 5,6 mm	permanent 5,6 mm
temporary F = 150 g	temporary F = 150 g
58.59.93	58.53.93
temporary F = 110 g	temporary F = 110 g
58.47.65	58.41.65

TITANIUM	PHYNOX
permanent 5,6 mm	permanent 5,6 mm
temporary F = 150 g	temporary F = 150 g
58.59.94	58.53.94
temporary F = 110 g	temporary F = 110 g
58.47.67	58.41.67

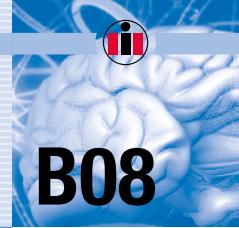
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cm inch



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura



Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura

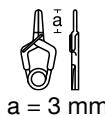


YASARGIL

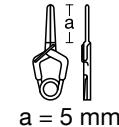


Zerebrovaskuläre Clips
Cerebrovascular Clips
Clips cerebrovasculare
Clips vasculaires cérébraux
Clip cerebrovascolari

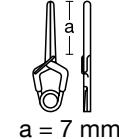
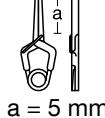
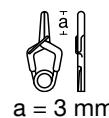
B08



TITANIUM		PHYNOX	
	3,3 mm		3,3 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.42.03		58.56.03	
temporary		temporary	
	F = 90 g		F = 90 g
58.42.53		58.56.53	



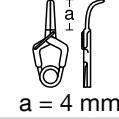
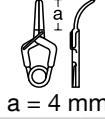
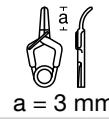
TITANIUM		PHYNOX	
	4,0 mm		4,0 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.42.05		58.56.05	
temporary		temporary	
	F = 70 g		F = 70 g
58.42.55		58.56.55	



TITANIUM		PHYNOX	
	3,3 mm		3,3 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.42.04		58.56.04	
temporary		temporary	
	F = 90 g		F = 90 g
58.42.63		58.56.63	

TITANIUM		PHYNOX	
	4,0 mm		4,0 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.42.06		58.56.06	
temporary		temporary	
	F = 70 g		F = 70 g
58.42.65		58.56.65	

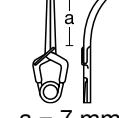
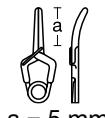
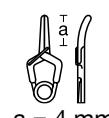
TITANIUM		PHYNOX	
	4,6 mm		4,6 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.42.07		58.56.07	
temporary		temporary	
	F = 70 g		F = 70 g
58.42.58		58.56.58	



TITANIUM		PHYNOX	
	3,2 mm		3,2 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.43.03		58.57.03	
temporary		temporary	
	F = 90 g		F = 90 g
58.43.53		58.57.53	

TITANIUM		PHYNOX	
	3,8 mm		3,8 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.43.05		58.57.05	
temporary		temporary	
	F = 70 g		F = 70 g
58.43.55		58.57.55	

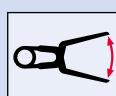
TITANIUM		PHYNOX	
	3,6 mm		3,6 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.43.15		58.57.15	
temporary		temporary	
	F = 80 g		F = 80 g
58.43.65		58.57.65	



TITANIUM		PHYNOX	
	3,6 mm		3,6 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.43.08		58.57.08	
temporary		temporary	
	F = 80 g		F = 80 g
58.43.57		58.57.57	

TITANIUM		PHYNOX	
	3,8 mm		3,8 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.43.06		58.57.06	
temporary		temporary	
	F = 70 g		F = 70 g
58.43.59		58.57.59	

TITANIUM		PHYNOX	
	4,4 mm		4,4 mm
permanent		permanent	
	F = 110 g		F = 110 g
58.43.07		58.57.07	
temporary		temporary	
	F = 70 g		F = 70 g
58.43.58		58.57.58	



Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura

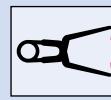


Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



TITANIUM 3,6 mm permanent F = 110 g 58.43.09 temporary F = 80 g 58.43.61	PHYNOX 3,6 mm permanent F = 110 g 58.57.09 temporary F = 80 g 58.57.61	TITANIUM 4,0 mm permanent F = 110 g 58.43.10 temporary F = 70 g 58.43.63	PHYNOX 4,0 mm permanent F = 110 g 58.57.10 temporary F = 70 g 58.57.63	TITANIUM 6,0 mm permanent F = 130 g 58.43.41 temporary F = 70 g 58.43.70	PHYNOX 6,0 mm permanent F = 130 g 58.57.41 temporary F = 70 g 58.57.70
TITANIUM 3,5 mm permanent F = 110 g 58.43.16 temporary F = 80 g 58.43.67	PHYNOX 3,5 mm permanent F = 110 g 58.57.16 temporary F = 80 g 58.57.67	TITANIUM 4,0 mm permanent F = 110 g 58.43.17 temporary F = 70 g 58.43.68	PHYNOX 4,0 mm permanent F = 110 g 58.57.17 temporary F = 70 g 58.57.68	TITANIUM 3,5 mm permanent F = 130 g 58.43.40 temporary F = 70 g 58.43.69	PHYNOX 3,5 mm permanent F = 130 g 58.57.40 temporary F = 70 g 58.57.69
TITANIUM 7,0 mm permanent F = 130 g 58.43.43 temporary F = 70 g 58.43.71	PHYNOX 7,0 mm permanent F = 130 g 58.57.43 temporary F = 70 g 58.57.71	TITANIUM 5,7 mm permanent F = 130 g 58.43.42 temporary F = 70 g 58.43.72	PHYNOX 5,7 mm permanent F = 130 g 58.57.42 temporary F = 70 g 58.57.72	TITANIUM 4,5 mm permanent F = 130 g 58.43.48 temporary F = 70 g 58.43.73	PHYNOX 4,5 mm permanent F = 130 g 58.57.48 temporary F = 70 g 58.57.73

cm | inch



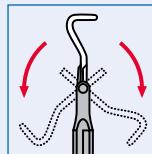
Öffnungsweite
Opening width
Abertura de ancho
Largeur d'ouverture
Larghezza dell'apertura



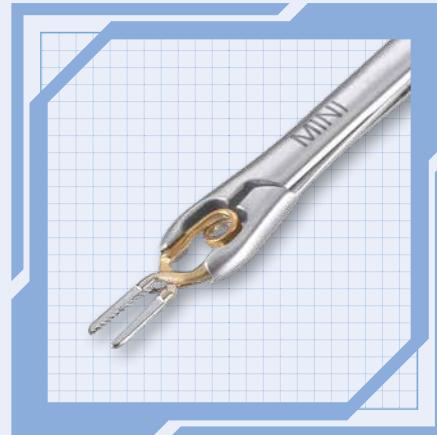
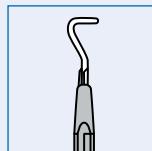
Schließkraft
Closing pressure
Fuerza de cierre
Force de fermeture
Forza di chiusura



Maul mit drehbarer Clip-Aufnahme
 Rotatable jaw for clip application
 Boca con acogida giratoria para clips
 Mors avec prise pivotante pour clips
 Morso da presa girevole per clip



Maul mit starrer Clip-Aufnahme
 Rigid jaw for clip application
 Boca con acogida rígida para clips
 Mors avec prise rigide pour clips
 Morso da presa rigido per clip



Zubehör für alle Anlegezangen mit drehbarer Clip-Aufnahme
 Accessories for all clip applying forceps with rotatable clip application
 Accesorios para todas las pinzas aplicadoras con acogida giratoria
 Accessoires pour toutes les pinces à appliquer les clips avec prise pivotante
 Accessori per tutti i posaclip con presa girevole



Einstellschlüssel
 Adjustment wrenches
 Llaves de ajuste
 Clés de réglage
 Chiave di regolazione



1:1

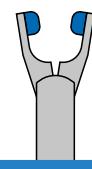
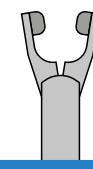
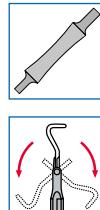
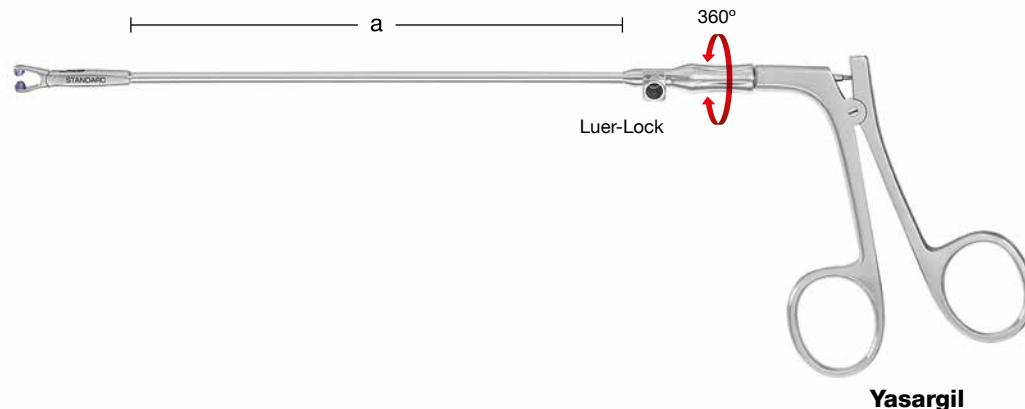


TITANIUM	58.60.45
PHYNOX	58.60.46

**B08**

Anlegezangen
Applying Forceps
Pinzas para aplicar
Pince à appliquer
Pinze per applicare

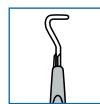
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cm | inch

**PHYNOX**

a = 7 cm - 2 3/4"	58.30.91
a = 9 cm - 3 1/2"	58.30.92
a = 11 cm - 4 3/8"	58.30.93
a = 13 cm - 5 1/8"	58.30.94

TITANIUM

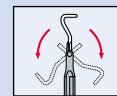
a = 7 cm - 2 3/4"	58.31.91
a = 9 cm - 3 1/2"	58.31.92
a = 11 cm - 4 3/8"	58.31.93
a = 13 cm - 5 1/8"	58.31.94

**PHYNOX**

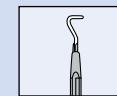
a = 7 cm - 2 3/4"	58.32.91
a = 9 cm - 3 1/2"	58.32.92
a = 11 cm - 4 3/8"	58.32.93
a = 13 cm - 5 1/8"	58.32.94

TITANIUM

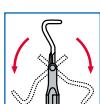
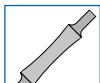
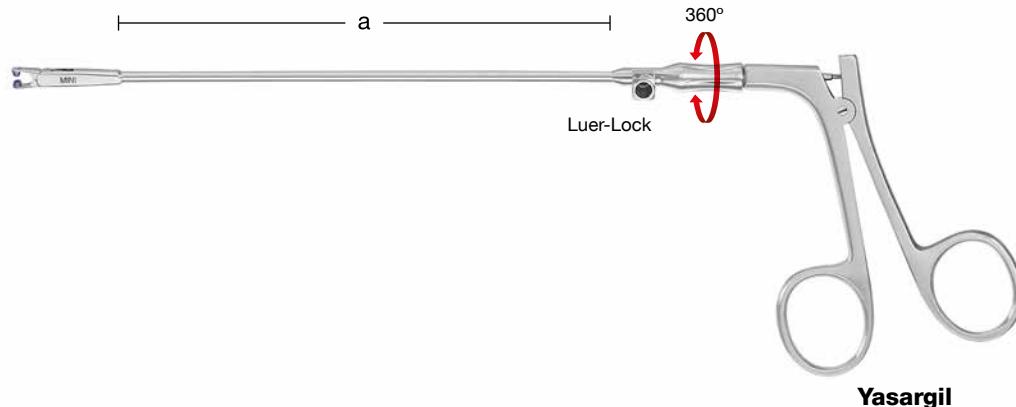
a = 7 cm - 2 3/4"	58.33.91
a = 9 cm - 3 1/2"	58.33.92
a = 11 cm - 4 3/8"	58.33.93
a = 13 cm - 5 1/8"	58.33.94



Maul mit drehbarer Clip-Aufnahme
Rotatable jaw for clip application
Boca con acogida giratoria para clips
Mors avec prise pivotante pour clips
Morso da presa girevole per clip



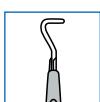
Maul mit starrer Clip-Aufnahme
Rigid jaw for clip application
Boca con acogida rígida para clips
Mors avec prise rigide pour clips
Morso da presa rigido per clip

**PHYNOX**

a = 7 cm - 2 3/4"	58.34.91
a = 9 cm - 3 1/2"	58.34.92
a = 11 cm - 4 3/8"	58.34.93
a = 13 cm - 5 1/8"	58.34.94

TITANIUM

a = 7 cm - 2 3/4"	58.36.91
a = 9 cm - 3 1/2"	58.36.92
a = 11 cm - 4 3/8"	58.36.93
a = 13 cm - 5 1/8"	58.36.94

**PHYNOX**

a = 7 cm - 2 3/4"	58.37.91
a = 9 cm - 3 1/2"	58.37.92
a = 11 cm - 4 3/8"	58.37.93
a = 13 cm - 5 1/8"	58.37.94

TITANIUM

a = 7 cm - 2 3/4"	58.38.91
a = 9 cm - 3 1/2"	58.38.92
a = 11 cm - 4 3/8"	58.38.93
a = 13 cm - 5 1/8"	58.38.94



Zubehör für alle Anlegezangen mit drehbarer Clip-Aufnahme (siehe Seite 221)
 Accessories for all clip applying forceps with rotatable clip application (see page 221)
 Accesorios para todas las pinzas aplicadoras con acogida giratoria (véase página 221)
 Accessoires pour toutes les pinces à appliquer les clips avec prise pivotante (voir page 221)
 Accessori per tutti i posaclip con presa girevole (vedi pagina 221)



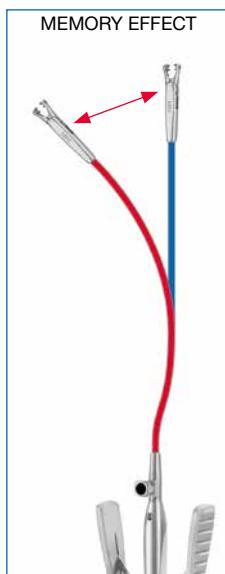
B08

Anlegezangen (biegbar) mit Memory-Effekt
Applying Forceps (flexible) with Memory Effect
Pinzas para aplicar (flexible) con efecto de memoria
Pinces à appliquer (flexible) avec effet de mémoire
Pinze per applicare (flessibili) con effetto di memoria

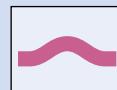
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cm/inch

Anlegezangen mit Memory-Effekt
 Applying forceps with memory effect
 Pinzas para aplicar con efecto de memoria
 Pinces à appliquer avec effet de mémoire
 Pinze per applicare con effetto di memoria

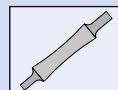
- ▶ für die individuelle Anpassung an den OP-Situs
- ▶ beim Sterilisieren wird der Schaft in die gerade Ausgangsposition zurückgeführt
- ▶ for an individual adaptation to the operating situs
- ▶ during sterilization the shaft turns back into its initial straight position
- ▶ para una adaptación individual al sitio operatorio
- ▶ durante la esterilización el vástago vuelve a su posición recta inicial
- ▶ pour une adaptation individuelle au site opératoire
- ▶ le tige reprend sa position initiale lors de la stérilisation
- ▶ per un'adattazione individuale al sito operatorio
- ▶ durante il processo di sterilizzazione l'asta viene ricondotta nella posizione iniziale



Yasargil



biegbar
malleable
maleables
malléables
malleabili



Zubehör für alle Anlegezangen mit drehbarer Clip-Aufnahme (siehe Seite 221)
 Accessories for all clip applying forceps with rotatable clip application (see page 221)
 Accesorios para todas las pinzas aplicadoras con acogida giratoria (véase página 221)
 Accessoires pour toutes les pinces à appliquer les clips avec prise pivotante (voir page 221)
 Accessori per tutti i posaclip con presa girevole (vedi pagina 221)



**Anlegezangen (biegsam) mit Memory-Effekt
Applying Forceps (flexible) with Memory Effect
Pinzas para aplicar (flexible) con efecto de memoria
Pince à appliquer (flexible) avec effet de mémoire
Pinze per applicare (flessibili) con effetto di memoria**

B08



TITANIUM	
a = 9 cm - 3½"	58.58.01
a = 11 cm - 4⅝"	58.58.03

PHYNOX	
a = 9 cm - 3½"	58.58.02
a = 11 cm - 4⅝"	58.58.04



TITANIUM	
a = 9 cm - 3½"	58.60.41
a = 11 cm - 4⅝"	58.60.43

PHYNOX	
a = 9 cm - 3½"	58.60.42
a = 11 cm - 4⅝"	58.60.44



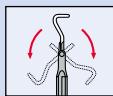
TITANIUM	
a = 9 cm - 3½"	58.60.31
a = 11 cm - 4⅝"	58.60.33

PHYNOX	
a = 9 cm - 3½"	58.60.32
a = 11 cm - 4⅝"	58.60.34

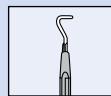


TITANIUM	
a = 9 cm - 3½"	58.60.51
a = 11 cm - 4⅝"	58.60.53

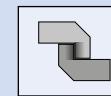
PHYNOX	
a = 9 cm - 3½"	58.60.52
a = 11 cm - 4⅝"	58.60.54



Maul mit drehbarer Clip-Aufnahme
Rotatable jaw for clip application
Boca con acogida giratoria para clips
Mors avec prise pivotante pour clips
Morso da presa girevole per clip



Maul mit starrer Clip-Aufnahme
Rigid jaw for clip application
Boca con acogida rígida para clips
Mors avec prise rigide pour clips
Morso da presa rigido per clip



mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera



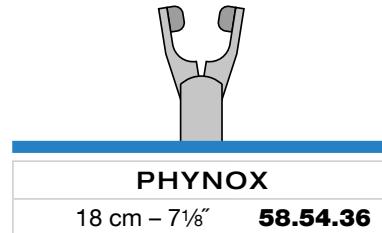
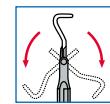
B08

Anlegezangen
Applying Forceps
Pinzas para aplicar
Pince à appliquer
Pinze per applicare

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



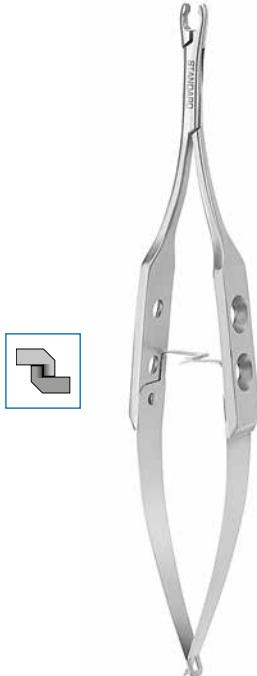
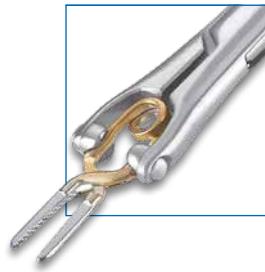
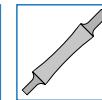
Yasargil



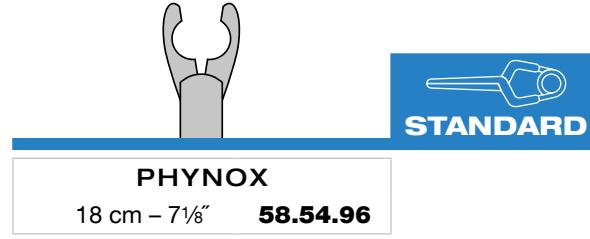
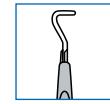
PHYNOX

18 cm - 7 1/8" 58.54.36

STANDARD



Yasargil



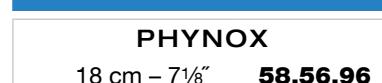
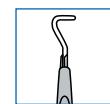
PHYNOX

18 cm - 7 1/8" 58.54.96

STANDARD

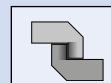


MINI

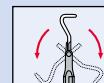


PHYNOX

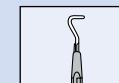
18 cm - 7 1/8" 58.56.96



mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera



Maul mit drehbarer Clip-Aufnahme
Rotatable jaw for clip application
Boca con acogida giratoria para clips
Mors avec prise pivotante pour clips
Morso da presa girevole per clip

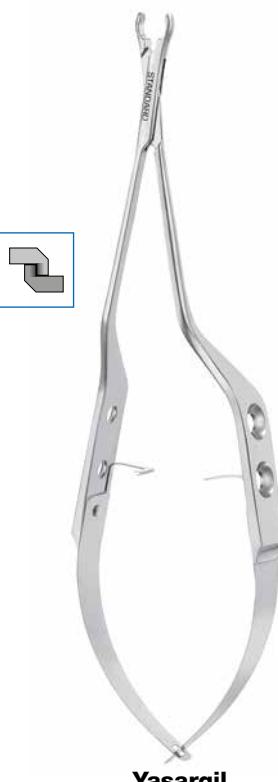


Maul mit starrer Clip-Aufnahme
Rigid jaw for clip application
Boca con acogida rígida para clips
Mors avec prise rígide pour clips
Morso da presa rigido per clip



Anlegezangen
Applying Forceps
Pinzas para aplicar
Pinces à appliquer
Pinze per applicare

B08



Yasargil



STANDARD

PHYNOX

17 cm - 6 3/4"	58.54.97
21 cm - 8 1/4"	58.54.98
23 cm - 9"	58.54.99

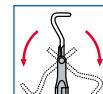


MINI

PHYNOX

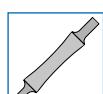
17 cm - 6 3/4"	58.56.97
21 cm - 8 1/4"	58.56.98
23 cm - 9"	58.56.99

doppelt übersetzt
double action
doble acción
à double articulation
doppia articolazione



TITANIUM

21 cm - 8 1/4"	58.58.98
23 cm - 9"	58.58.99

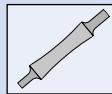


TITANIUM

21 cm - 8 1/4"	58.61.98
23 cm - 9"	58.61.99



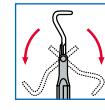
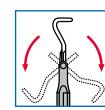
Yasargil



Zubehör für alle Anlegezangen mit drehbarer Clip-Aufnahme (siehe Seite 221)
Accessories for all clip applying forceps with rotatable clip application (see page 221)
Accesorios para todas las pinzas aplicadoras con acogida giratoria (véase página 221)
Accessoires pour toutes les pinces à appliquer les clips avec prise pivotante (voir page 221)
Accessori per tutti i posaclip con presa girevole (vedi pagina 221)

**B08**
Anlegezangen
Applying Forceps
Pinzas para aplicar
Pince à appliquer
Pinze per applicare

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch

**Yasargil**

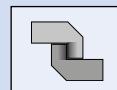
doppelt übersetzt und schwenkbar
double action and swivelling
doble acción y giratorio
à double articulation et pivotant
doppia articolazione e orientabile

**STANDARD**

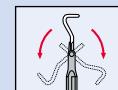
TITANIUM	
21 cm – 8 1/4"	58.56.91
23 cm – 9"	58.56.92

MINI

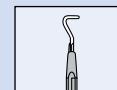
TITANIUM	
21 cm – 8 1/4"	58.59.98
23 cm – 9"	58.59.99



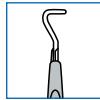
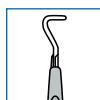
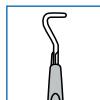
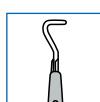
mit Sperre
with catch
con cremallera
avec crémaillère
con cremagliera



Maul mit drehbarer Clip-Aufnahme
Rotatable jaw for clip application
Boca con acogida giratoria para clips
Mors avec prise pivotante pour clips
Morso da presa girevole per clip



Maul mit starrer Clip-Aufnahme
Rigid jaw for clip application
Boca con acogida rígida para clips
Mors avec prise rigide pour clips
Morso da presa rigido per clip

**Yasargil****PHYNOX**21 cm - 8 1/4" **58.66.03****PHYNOX**21 cm - 8 1/4" **58.66.00****STANDARD****TITANIUM**21 cm - 8 1/4" **58.66.09****MINI****TITANIUM**21 cm - 8 1/4" **58.66.06****Yasargil**

doppelt übersetzt
 double action
 doble acción
 à double articulation
 doppia articolazione



Zubehör für alle Anlegezangen mit drehbarer Clip-Aufnahme (siehe Seite 221)
 Accessories for all clip applying forceps with rotatable clip application (see page 221)
 Accesorios para todas las pinzas aplicadoras con acogida giratoria (véase página 221)
 Accessoires pour toutes les pinces à appliquer les clips avec prise pivotante (voir page 221)
 Accessori per tutti i posaclip con presa girevole (vedi pagina 221)



B08

Kassette (ohne Clips und Kennzeichnungsschilder)**Tray (without Clips and Identification Labels)****Caja (sin clips y placas de identificación)****Cassette (sans clips et étiquettes d'identification)****Cassetta (senza clip e etichette d'identificazione)**

Die farbliche Kennzeichnung unterstützt die schnelle Identifikation und vereinfacht die Zuordnung untereinander.
The color coding scheme makes rapid identification of the parts very easy and simplifies parts matching.
La codificación con diferentes colores apoya la identificación y facilita la asignación entre sí.
Le marquage couleur permet une identification rapide et simplifie la recherche des pièces correspondantes.
Il codice colore facilita la rapida identificazione e agevola l'assegnazione reciproca.

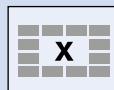


58

52,8 × 25,4 × 4,0 cm



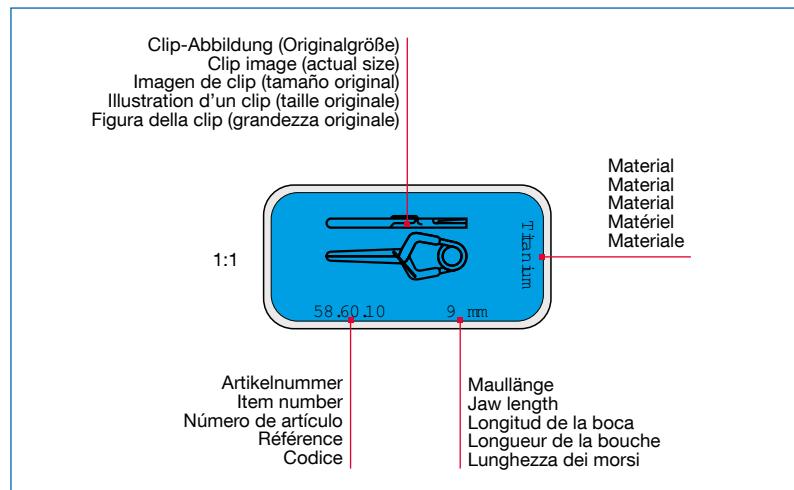
58.60.01

STANDARD**MINI**

Anzahl der Fächer
Number of compartments
Número de compartimentos
Nombre de compartiments
Número dei scompartimenti



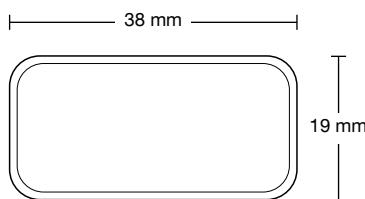
Kunststoff (autoklavierbar bis 134 °C bei 3 bar)
Plastic (autoclavable up to 134 °C at 3 bar)
Plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
Plastique (autoclavable à 134 °C sous pression de 3 bars)
Plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



La inscripción de las placas de identificación se realiza de manera separada por pedido!

Les inscriptions sur les étiquettes sont déterminées séparément, sur commande!

La scritta sulla targhetta identificativa viene eseguita separatamente su ordinazione!



PERMANENT

58.60.02

TEMPORARY

58.60.03



MINI



PERMANENT

58.60.04

TEMPORARY

58.60.03



Kunststoff (autoklavierbar bis 134 °C bei 3 bar)
 Plastic (autoclavable up to 134 °C at 3 bar)
 Plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
 Plastique (autoclavable à 134 °C sous pression de 3 bars)
 Plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



B08

Kassetten (ohne Clips und Kennzeichnungsschilder)
Trays (without Clips and Identification Labels)
Cajas (sin clips y placas de identificación)
Cassettes (sans clips et étiquettes d'identification)
Cassette (senza clip e etichette d'identificazione)

cm | inch



66

55,6 × 25,0 × 3,3 cm

134 °C

58.60.00

stapelbar
stackable
apilable
empilable
impilabile



STANDARD
MINI



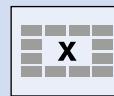
28

25,0 × 26,0 × 3,3 cm

134 °C

58.60.05

STANDARD
MINI



Anzahl der Fächer
Number of compartments
Número de compartimentos
Nombre de compartiments
Número dei scompartimenti



Kunststoff (autoklavierbar bis 134 °C bei 3 bar)
Plastic (autoclavable up to 134 °C at 3 bar)
Plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
Plastique (autoclavable à 134 °C sous pression de 3 bars)
Plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



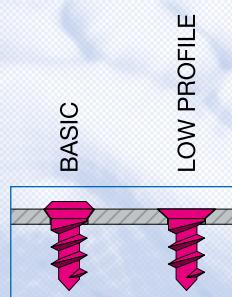
Das 1,5 mm Neuro-Fixationssystem wurde zur Fixierung von kranialen Knochen entwickelt. Das System beinhaltet die Produktlinie "BASIC" und die in Zusammenarbeit mit Dr. David L. Masel, El Paso, Texas (USA) entwickelte Produktlinie "LOW PROFILE".

The 1.5 mm Neuro-fixation system was specially developed for fixation of cranial bone. The system includes the "BASIC" product line and the "LOW PROFILE" product line developed in collaboration with Dr. David L. Masel, El Paso, Texas (USA).

El sistema para neuro-fijación de 1,5 mm se desarrolló especialmente para la fijación de huesos del cráneo. El sistema incluye la línea de productos "BASIC" y la línea de productos "LOW PROFILE" desarrollada con la cooperación del Dr. David L. Masel, El Paso, Texas (USA).

Le système de fixation Neuro 1,5 mm a été spécialement développé pour fixer les os crâniens. Ce système comprend la ligne de produits "BASIC" et la ligne de produits "LOW PROFILE" développée en collaboration avec le Dr. David L. Masel, El Paso, Texas (USA).

Il sistema di neuro-fissaggio da 1,5 mm è stato appositamente sviluppato per il fissaggio dell'osso cranico. Il sistema include la linea di prodotti "BASIC" e la linea di prodotti "LOW PROFILE" sviluppata in collaborazione con il Dr. David L. Masel, El Paso, Texas (USA).



Die sehr flachen Köpfe der "Low Profile"-Schrauben lassen sich komplett in die Platten versenken.

The "Low Profile" screw heads are very flat and can be completely sunk into the plates.

Las cabezas extremadamente planas de los tornillos "Low Profile" pueden embutirse completamente en las placas.

Les têtes de vis très plates "Low Profile" s'enfoncent complètement dans les plaques.

Le teste estremamente piatte delle viti "Low Profile" sono completamente inseribili a scomparsa nelle placche.



B09

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

BASIC
1.5 mm

Titan-Platten
 Titanium plates
 Placas de titanio
 Plaques en titane
 Placche in titanio



68.87.02



68.87.07



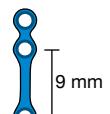
68.87.03



68.87.14



68.87.34



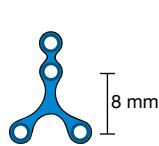
68.87.44



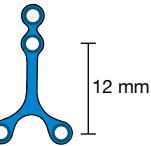
68.87.46



68.87.70



68.87.72



68.87.74



68.87.75



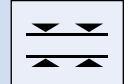
68.87.59



68.87.59



Anzahl der Löcher
 Number of holes
 Número de orificios
 Nombre de trous
 Numero dei fori



Plattenstärke
 Thickness of plates
 Grosor de las placas
 Epaisseur des plaques
 Spessore delle placche



Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi



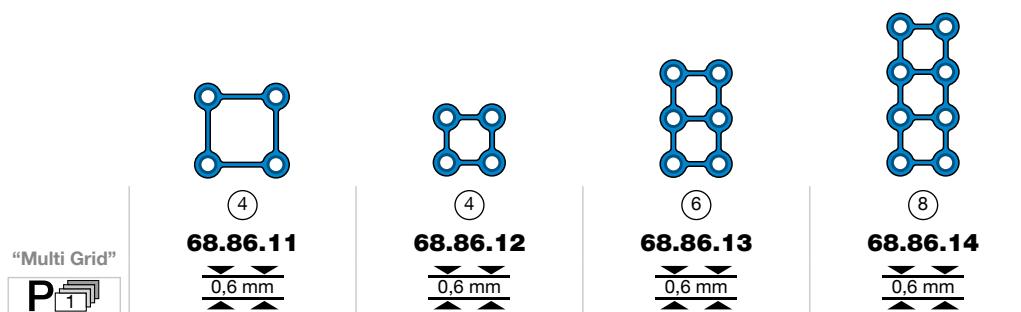
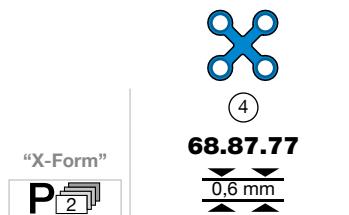
BASIC

1.5 mm

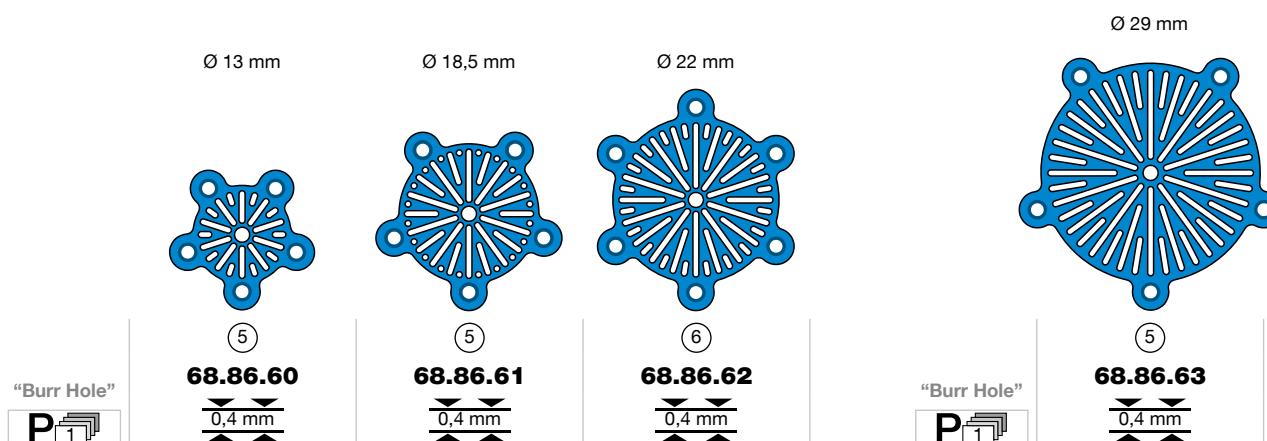
Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

B09

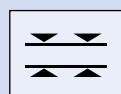
Titan-Platten
 Titanium plates
 Placas de titanio
 Plaques en titane
 Placche in titanio



Bohrlochabdeckplatten
 Burr hole plates
 Placas para tapar los orificios perforados
 Plaques pour trous de forage
 Placche di copertura per fori



Anzahl der Löcher
 Number of holes
 Número de orificios
 Nombre de trous
 Numero dei fori



Plattenstärke
 Thickness of plates
 Grosor de las placas
 Epaisseur des plaques
 Spessore delle placche



Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi

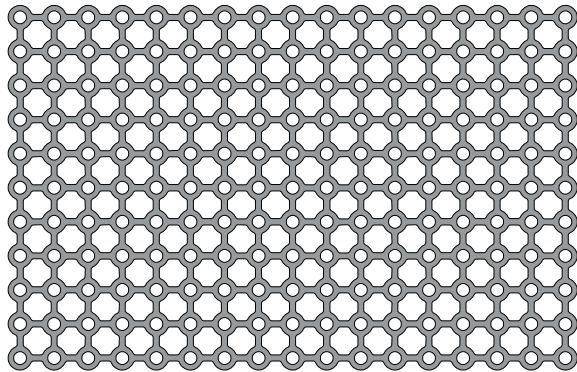


B09

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

BASIC
1.5 mm

Titan-Platten
Titanium plates
Placas de titanio
Plaques en titane
Placche in titanio

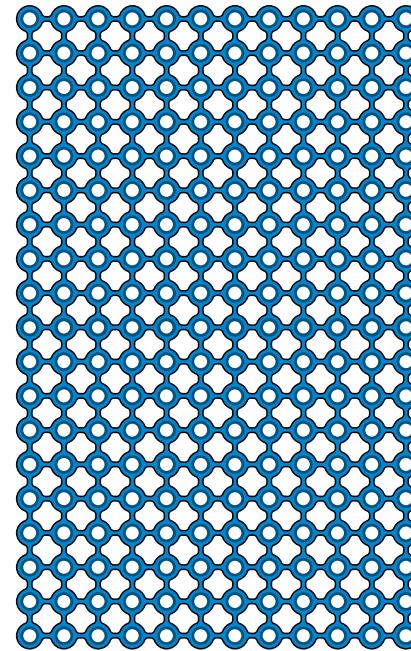


"Multi Grid Mesh"



74 x 50 mm

68.86.88



"Multi Grid Mesh"



53 x 85 mm

68.86.89

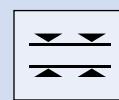


53 x 85 mm

68.86.90



21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



Plattenstärke
Thickness of plates
Grosor de las placas
Epaisseur des plaques
Spessore delle placche



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



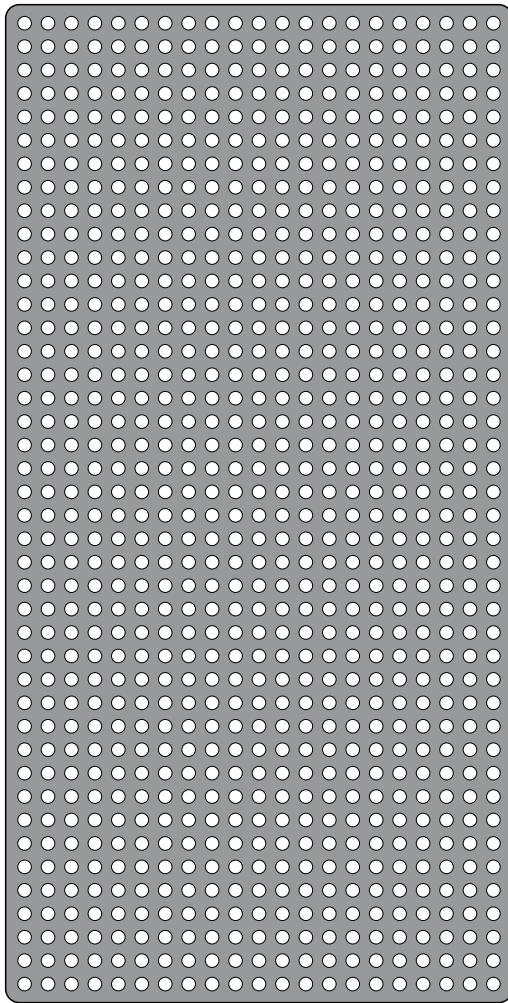
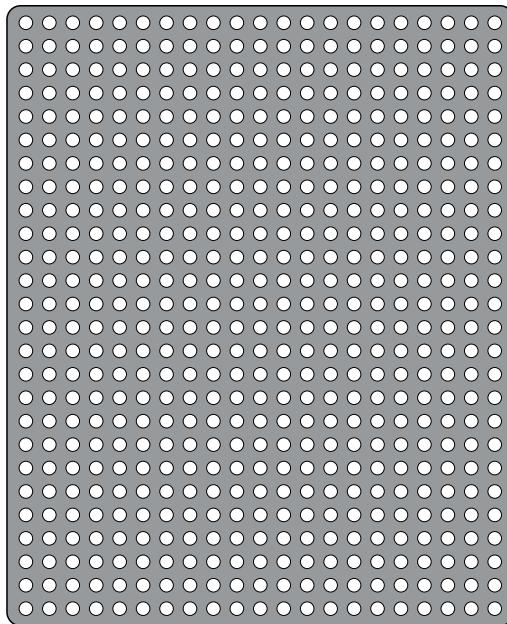
BASIC

1.5 mm

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

B09

Titan-Platten
 Titanium plates
 Placas de titanio
 Plaques en titane
 Placche in titanio



"Multi Grid Mesh"



82 x 67 mm

68.86.91

82 x 67 mm

68.86.92

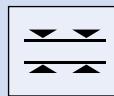
"Multi Grid Mesh"



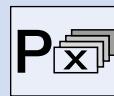
132 x 67 mm

68.86.93

132 x 67 mm

68.86.94

Plattenstärke
 Thickness of plates
 Grosor de las placas
 Epaisseur des plaques
 Spessore delle placche



Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi

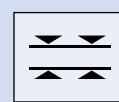
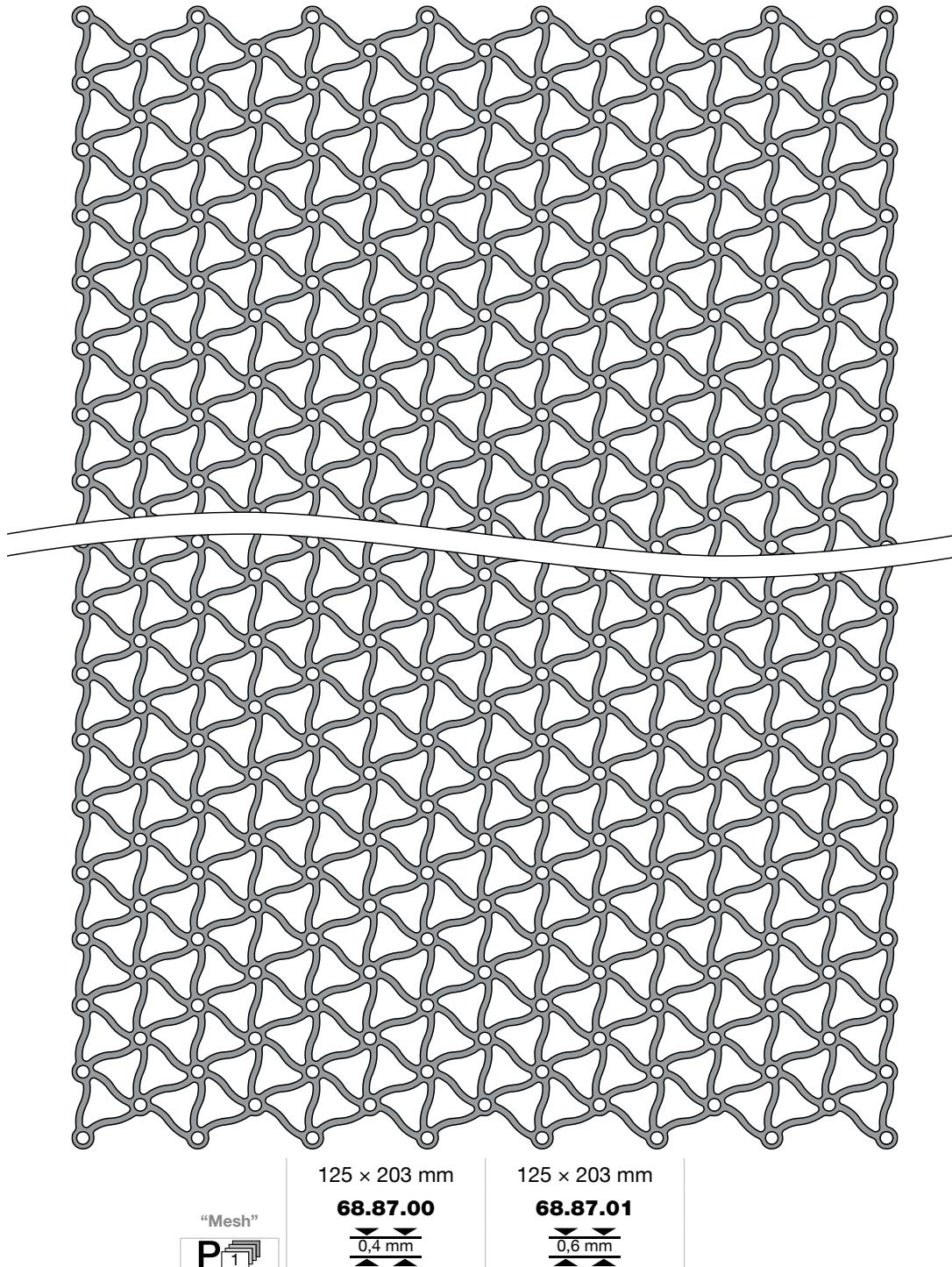


B09

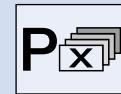
Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

BASIC
1.5 mm

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch



Plattenstärke
Thickness of plates
Grosor de las placas
Epaisseur des plaques
Spessore delle piacche



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



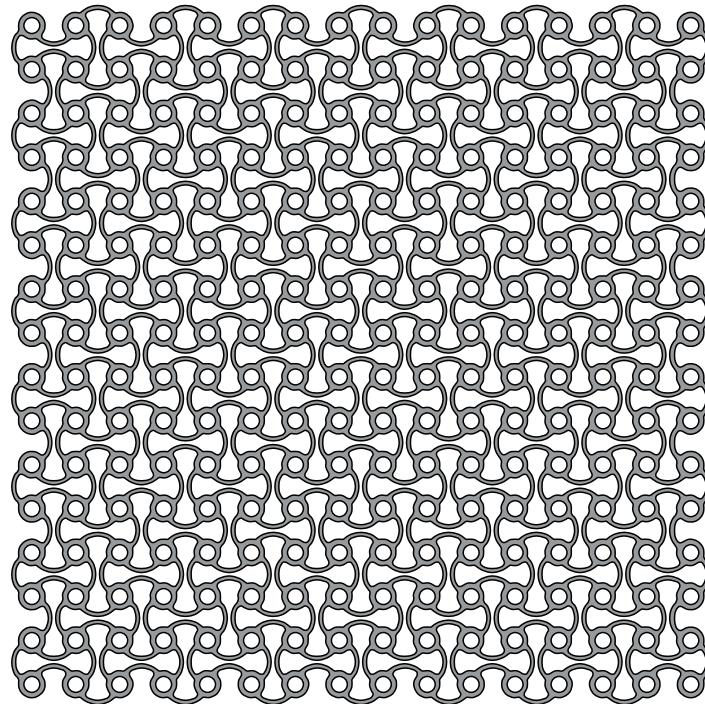
BASIC

1.5 mm

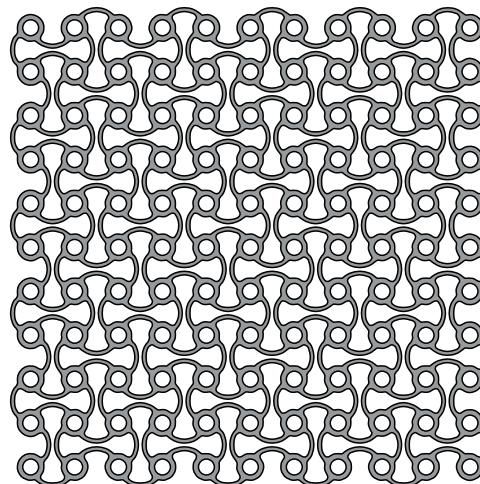
Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

B09

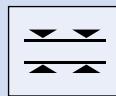
Titan-Platten
 Titanium plates
 Placas de titanio
 Plaques en titane
 Placche in titanio



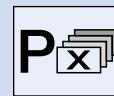
"Mesh" 	90 x 90 mm 68.87.27 	90 x 90 mm 68.87.28 
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"Mesh" 	61 x 61 mm 68.87.29 	61 x 61 mm 68.87.30 
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Plattenstärke
 Thickness of plates
 Grosor de las placas
 Epaisseur des plaques
 Spessore delle placche



Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi



B09

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

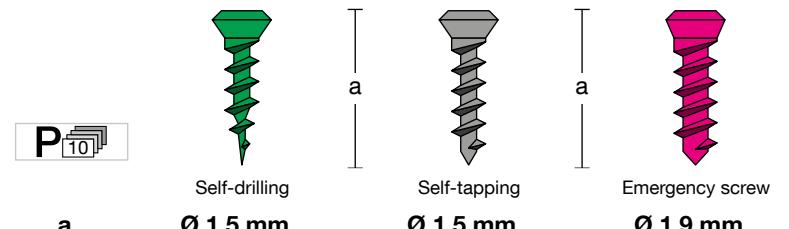
BASIC
1.5 mm



Titan-Schrauben
 Titanium screws
 Tornillos de titanio
 Vis en titane
 Viti in titanio



10 Schrauben im Magazin (nicht steril)
 10 screws in storage tray (non-sterile)
 10 tornillos en cartucho (no estéril)
 10 vis en cartouche (non stériles)
 10 viti nella cartuccia (non sterile)



“EASY GRIP”

Schraubenkopf mit konischem Innenvierkant
 Screw head with tapered inside square
 Tornillo de cabeza con cuadrado interior cónico
 Tête de vis avec quatre-pans intérieur conique
 Testa della vite con quadrangolo interno conico

a	Ø 1,5 mm	Ø 1,5 mm	
3,5 mm	68.83.73A	68.83.53A	
4,0 mm	68.83.74A	68.83.54A	68.83.84A
5,0 mm	68.83.75A	68.83.55A	
6,0 mm			68.83.86A

“MASTER GRIP”

Schraubenkopf mit einem Schlitz
 Screw head with slot
 Tornillo de cabeza ranurada
 Tête de vis avec fente
 Testa della vite ad intaglio

a	Ø 1,5 mm	Ø 1,5 mm	Ø 1,9 mm
3,5 mm		68.83.03A	
4,0 mm		68.83.04A	68.83.34A
5,0 mm		68.83.05A	
6,0 mm			68.83.36A

“POWER GRIP”

Schraubenkopf mit kreuzförmigem Schlitz
 Screw head with cross slot
 Tornillo de cabeza ranurada en cruz
 Tête de vis avec fente cruciforme
 Testa della vite a croce

a	Ø 1,5 mm	Ø 1,5 mm	Ø 1,9 mm
3,5 mm	68.85.83A	68.85.43A	
4,0 mm	68.85.84A	68.85.44A	68.85.64A
5,0 mm	68.85.85A	68.85.45A	
6,0 mm			68.85.66A

“STAR GRIP”

Schraubenkopf mit sternförmigem Schlitz
 Screw head with star slot
 Tornillo de cabeza ranurada en estrella
 Tête de vis avec fente forme d'étoile
 Testa della vite a stella

a	Ø 1,5 mm	Ø 1,5 mm	Ø 1,9 mm
3,5 mm	68.85.73A	68.85.03A	
4,0 mm	68.85.74A	68.85.04A	68.85.24A
5,0 mm	68.85.75A	68.85.05A	
6,0 mm			68.85.26A

Bei harter Kortikalis oder Fixation kleiner Knochenfragmente wird ein Vorbohren empfohlen.
 In case of hard cortical bone substance or fixation of small bone fragments we recommend pre-drilling.
 En caso de una cortical muy dura o de la fijación de fragmentos pequeños recomendamos la perforación previa.
 Pour le cas où la corticale serait trop dure ou pour la fixation de petits fragments osseux, nous recommandons un préforage.
 In presenza di una corticale molto dura oppure per la fissazione di piccoli frammenti consigliamo di perforare prima dell'inserimento della vite.



Selbstbohrend
Self-drilling
 Autoperforante
 Autoperforante
 Autoperforante



Selbstschneidend
Self-tapping
 Autoroscante
 Autotaraudeuse
 Autofiletante



Notfallschraube (selbstschneidend)
Emergency screw (self-tapping)
 Tornillo de emergencia (autoroscante)
 Vis d'urgence (autotaraudeuse)
 Vite d'emergenza (autofiletante)



BASIC

1.5 mm

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

B09

Schraubendrehergriffe
Screwdriver handles
Mangos para atornillador
Manches de tournevis
Manici per cacciavite

Schraubendrehherklingen
Screwdriver blades
Hojas para atornillador
Lames de tournevis
Lame per cacciavite



10 cm - 4"

75.23.50

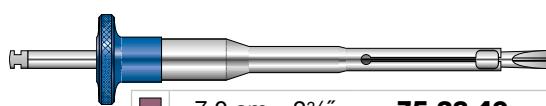
10 cm - 4"

75.23.52

10 cm - 4"

75.23.78A

5,5 cm - 2 1/8"

75.23.41

7,0 cm - 2 3/4"

75.23.49

mit Greifvorrichtung
with gripping device
con garra
avec préhenseur
con dispositivo da presa



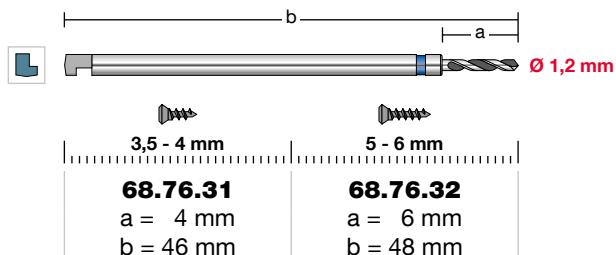
5,5 cm - 2 1/8"

75.23.19

5,5 cm - 2 1/8"

75.23.16

Spiralbohrer
Twist drills
Brocas espirales
Forets hélicoïdaux
Perforatori elicoidali



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



Ansatz
Shank end
Talón
Embout
Attacco



Ansatz
Shank end
Talón
Embout
Attacco



Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

LOW PROFILE
1.5 mm

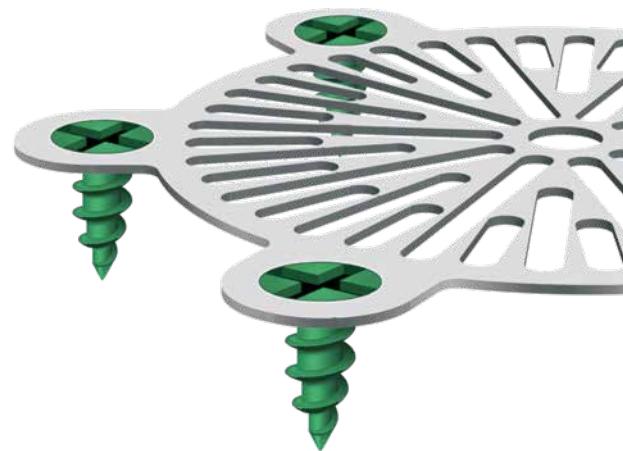
Die 0,4 mm "Low Profile"-Platten ermöglichen eine der Knochenkontur angepaßte Fixierung in kranialen Regionen mit geringer Weichteildecke.

The 0.4 mm "Low Profile" plates allow fixation matched to the bone contour in cranial regions with low soft tissue coverage.

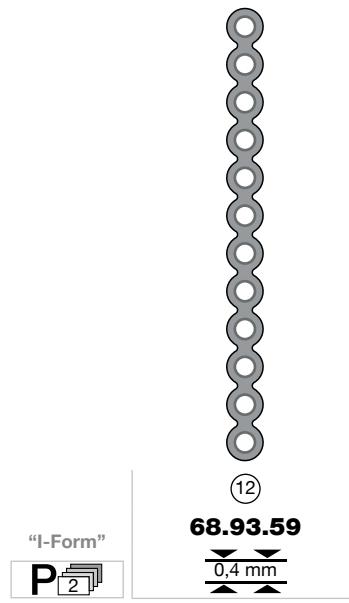
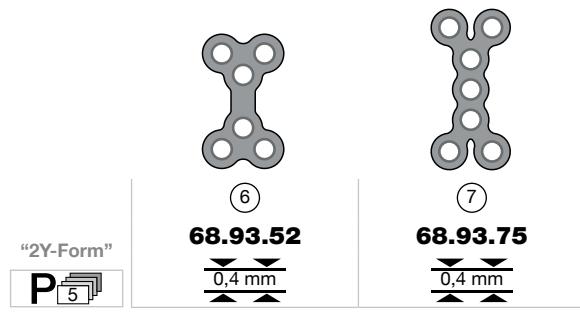
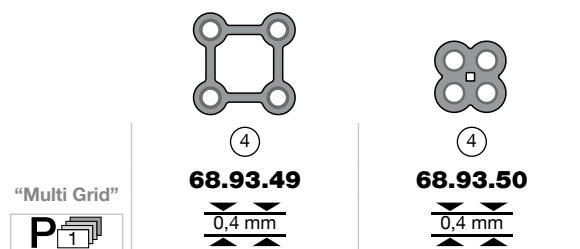
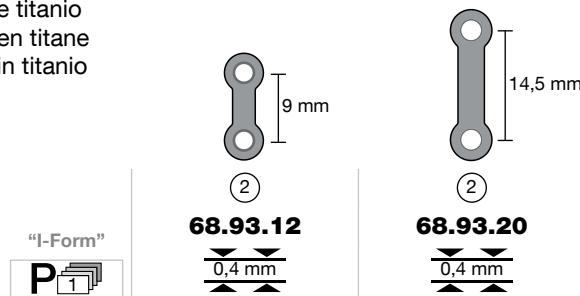
Las placas "Low Profile" de 0,4 mm permiten la fijación adaptada al contorno óseo en las regiones craneales con una capa delgada de partes blandas.

Les plaques "Low Profile" de 0,4 mm permettent une fixation adaptée aux contours osseux dans la zone crânienne, avec une couverture minimale des tissus mous.

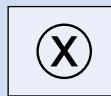
Le placche "Low Profile" da 0,4 mm consentono un fissaggio che si adatta al profilo dell'osso delle regioni craniche con ridotta copertura del tessuto molle.



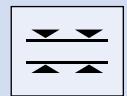
Titan-Platten
 Titanium plates
 Placas de titanio
 Plaques en titane
 Placche in titanio



cm | inch



Anzahl der Löcher
 Number of holes
 Número de orificios
 Nombre de trous
 Numero dei fori



Plattenstärke
 Thickness of plates
 Grosor de las placas
 Epaisseur des plaques
 Spessore delle placche



Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi



LOW PROFILE 1.5 mm

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

B09



- ▶ Ermöglicht die sichere Liquorpassage eines Katheters
- ▶ Keine scharfen Kanten
- ▶ Kein Einschneiden der Platte notwendig
- ▶ Keine Schwächung der Platte

- ▶ Allows a safe smooth passage of an underlying catheter
- ▶ No sharp edges
- ▶ No cutting of the plate necessary
- ▶ No degradation of the plate

- ▶ Facilita el seguro pasaje del catéter a través del líquido
- ▶ Sin bordes cortantes
- ▶ No existe la necesidad de entallar las placas
- ▶ No debilitar las placas

- ▶ Permet un meilleur passage du cathéter dans le liquide cérébro-spinal
- ▶ Pas d'arrêt coupante
- ▶ Prédécoupage de la plaque non nécessaire
- ▶ Plaque non fragilisée

- ▶ Permette la sicura circolazione del liquido cerebrospinale
- ▶ Senza bordi taglienti
- ▶ Non è necessario incidere la placa
- ▶ Nessun indebolimento della placa

Bohrlochabdeckplatten

Burr hole plates

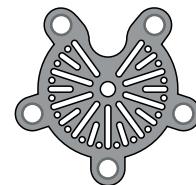
Placas para tapar los orificios perforados

Plaques pour trous de forage

Placche di copertura per fori

Ø 13 mm

Ø 18,5 mm



68.93.54

68.93.53

Masel

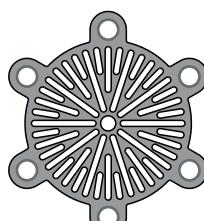
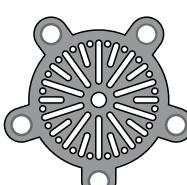
Masel



Ø 13 mm

Ø 18,5 mm

Ø 22 mm



68.93.60

68.93.51

68.93.62

0,4 mm

0,4 mm

0,4 mm



Anzahl der Löcher
Number of holes
Número de orificios
Nombre de trous
Número dei fori



Plattenstärke
Thickness of plates
Grosor de las placas
Epaisseur des plaques
Spessore delle placche



Verpackungseinheit “X” Stück
Packing unit “X” pieces
Paquete de “X” unidades
Emballage de “X” pièces
Confezione da “X” pezzi



Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

LOW PROFILE
1.5 mm

Die sehr flachen Köpfe der "Low Profile"-Schrauben lassen sich komplett in die Platten versenken.

The "Low Profile" screw heads are very flat and can be completely sunk into the plates.

Las cabezas extremadamente planas de los tornillos "Low Profile" pueden embutirse completamente en las placas.

Les têtes de vis très plates "Low Profile" s'enfoncent complètement dans les plaques.

Le teste estremamente piatte delle viti "Low Profile" sono completamente inseribili a scomparsa nelle placche.



Titan-Schrauben
 Titanium screws
 Tornillos de titanio
 Vis en titane
 Viti in titanio



10 Schrauben im Magazin (nicht steril)
 10 screws in storage tray (non-sterile)
 10 tornillos en cartucho (no estéril)
 10 vis en cartouche (non stériles)
 10 viti nella cartuccia (non sterile)

"EASY GRIP"

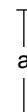
Schraubenkopf mit konischem Innenvierkant
 Screw head with tapered inside square
 Tornillo de cabeza con cuadrado interior cónico
 Tête de vis avec quatre-pans intérieur conique
 Testa della vite con quadrangolo interno conico



a
4,0 mm



Ø 1,5 mm
68.93.00A



Emergency screw
Ø 1,9 mm
68.93.05A

"POWER GRIP"

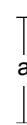
Schraubenkopf mit kreuzförmigem Schlitz
 Screw head with cross slot
 Tornillo de cabeza ranurada en cruz
 Tête de vis avec fente cruciforme
 Testa della vite a croce



a
3,5 mm
4,0 mm



Self-drilling
Ø 1,5 mm
68.93.23A



Emergency screw
Ø 1,9 mm
68.93.34A



Bei harter Kortikalis oder Fixation kleiner Knochenfragmente wird ein Vorbohren empfohlen.
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 In presenza di una corticale molto dura oppure per la fissazione di piccoli frammenti consigliamo di perforare prima dell'inserimento della vite.



Selbstbohrend
Self-drilling
 Autoperforante
 Autoperforante
 Autoperforante



Selbstschneidend
Self-tapping
 Autoroscante
 Autotaraudeuse
 Autofilletante



Notfallschraube (selbstschneidend)
Emergency screw (self-tapping)
 Tornillo de emergencia (autoroscante)
 Vis d'urgence (autotaraudeuse)
 Vite d'emergenza (autofilletante)



LOW PROFILE 1.5 mm

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

B09

Schraubendrehergriffe
Screwdriver handles
Mangos para atornillador
Manches de tournevis
Manici per cacciavite

Schraubendrehherklingen
Screwdriver blades
Hojas para atornillador
Lames de tournevis
Lame per cacciavite



10 cm - 4"

75.23.50



10 cm - 4"

75.23.52



10 cm - 4"

75.23.78A



5,5 cm - 2 1/8"

75.23.41

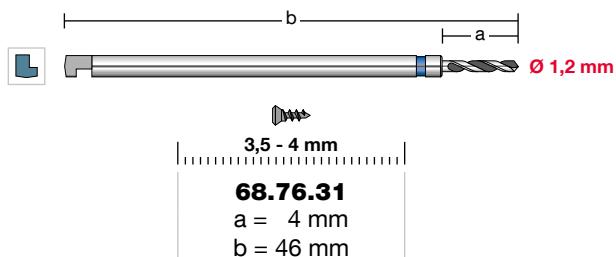


5,5 cm - 2 1/8"

68.93.22



Spiralbohrer
Twist drill
Broca espiral
Foret hélicoïdal
Perforatore elicoidale



Verpackungseinheit "X" Stück
Packing unit "X" pieces
Paquete de "X" unidades
Emballage de "X" pièces
Confezione da "X" pezzi



Ansatz
Shank end
Talón
Embout
Attacco



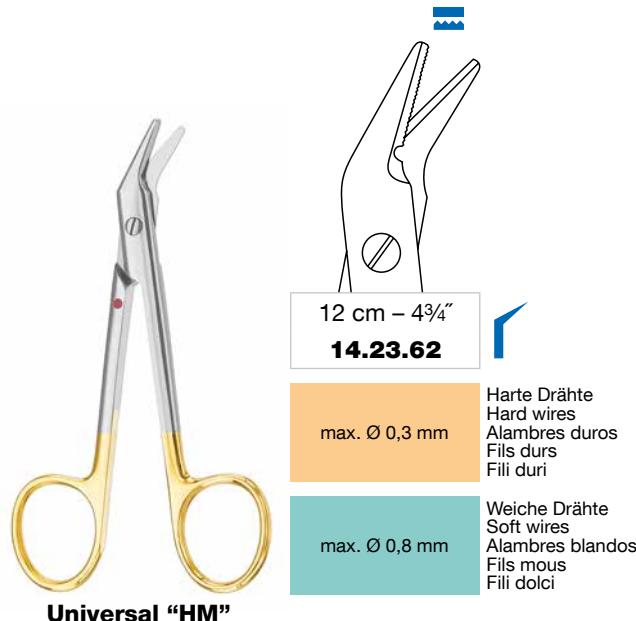
Ansatz
Shank end
Talón
Embout
Attacco



B09

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

Draht- und Mesh-Plattenschere
 Wire and Mesh plate cutting scissors
 Tijera para cortar alambre y placas Mesh
 Ciseaux coupe-fil et coupe-plaques Mesh
 Forbice per fili d'acciaio e placche Mesh



Draht- und Platten schneidezangen
 Wire and plate cutting pliers
 Alicates para cortar alambre y placas
 Pinces coupe-fils et coupe-plaques
 Pinze per tagliare fili e placche

**"HM"**

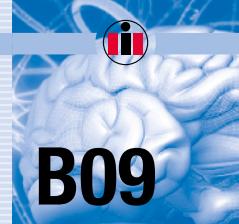
Hartmetall
 Tungsten carbide
 Carburo de tungsteno
 Carbure de tungstène
 Carburo di tungsteno



seitwärts gewinkelt
 angled to side
 acodadas hacia el lado
 coudés latéralement
 angolata lateralmente



Eine Schneide gezahnt
 One blade serrated
 Una hoja dentada
 Une lame dentelée
 Una lama dentellata



Plattenbiegezangen
 Plate bending pliers
 Pinzas para doblar placas
 Pince pour plier les plaques
 Pinze piegatplacche



Schraubenhaltepinzette
 Screw holding forceps
 Pinza de agarre para tornillos
 Pince pour tenir les vis
 Pinza da presa per viti

Plattenhaltepinzetten
 Plate holding forceps
 Pinzas de agarre para placas
 Pince pour tenir les plaques
 Pinze da presa per placche



**B09**

Neuro-Fixationssystem
Neuro-Fixation System
Sistema para neuro-fijación
Système de neuro-fixation
Sistema di neuro-fissaggio

Bohrlochtfiehenlehre
 Depth gauge for drill-holes
 Instrumento para medir la profundidad
 Instrument pour mesurer la profondeur
 Strumento per misurare la profondità



20 cm - 8" **68.76.56**

Adoptionsinstrument
 Applying instrument
 Instrumento de adaptación
 Instrument d'adaptation
 Strumento per adattamento



14 cm - 5½" **68.76.44**

Kassette (ohne Implantate, Schrauben und Werkzeuge)
 Tray (without implants, screws and tools)
 Caja (sin implantes, tornillos y sus respectivos instrumentos)
 Cassette (sans implants, vis et outils)
 Cassetta (senza impianti, viti e strumentario)

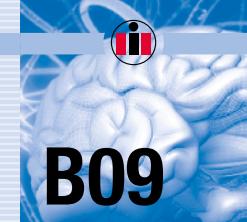


230 x 235 x 55 mm **69.02.40**

Empfohlene Bestückung
Recommended set
Recomendación de equipamiento
Recommendation d'équipement
Raccomandazione per la dotazione

14.26.72	Wire and Mesh plate cutting scissors	1x
68.76.31	Twist drill (4/46 mm)	2x
68.76.32	Twist drill (6/48 mm)	2x
68.76.54	Plate holding forceps	1x
75.23.19	Screwdriver blades	2x
75.23.50	Screwdriver handles	2x
	Instrumente, optional	
	Instruments, optional	
	Instrumentos, opcional	
	Instruments, optionnel	
	Strumenti, opzionale	
75.23.16	Screwdriver blades	2x
75.23.41	Screwdriver blades	2x
75.23.49	Screwdriver blades	2x
75.23.52	Screwdriver handles	2x
75.23.78A	Screwdriver handles	2x

Mit Universal-Fächern zur individuellen Bestückung
 With universal compartments for individual equipment
 Con compartimentos universales para una composición individual
 Avec compartiments universels pour équipement individuel
 Con scomparti universali per la dotazione individuale

**B09**

Sterilgut-Container aus Aluminium
 Aluminium container for sterilization
 Contenedor de aluminio para la esterilización
 Container en aluminium pour la stérilisation
 Contenitore in alluminio per sterilizzazione

silber eloxiert, mit Papierfilter
 silver anodized, with paper filter
 anodizado en plata, con filtro de papel
 couleur argent anodisé, avec filtre de papier
 color argento anodizzato, con filtri di cartace



290 × 290 × 135 mm

49.50.13

Siebkorb
 Wire basket
 Cestilla
 Panier
 Cestello



240 × 255 × 50 mm

49.97.02

MEDICONTAINER
CONTAINER system

Unser komplettes MEDICONTAINER-Programm finden Sie in unserem Sonderprospekt.
 For our complete MEDICONTAINER program please ask for our special brochure.
 Nuestro programa completo de MEDICONTAINER se encuentra en nuestro folleto especial.
 Vous trouverez notre programme complet des MEDICONTAINER dans notre prospectus spécial.
 Il nostro programma completo di MEDICONTAINER si trova nel catalogo speciale.



Deckel gelocht
 Lid perforated
 Tapa perforada
 Couvercle perforé
 Coperchio forato



B09

Sets zur Fixierung des kranialen Knochendeckels
Sets for Fixation of Cranial Bone Flap
Juegos para la fijación de la calota craneal
Jeux pour la fixation du couvercle osseux crânien
Set per il fissaggio della calotta cranica

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10
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8
7
6
5
4
3
2
1
cm/inch

1.5 MICRO NEURO FLAP SET

Sets bestehend aus:
 Sets consisting of:
 Juegos compuestos por:
 Jeux composés de:
 Set composti da:

"POWER GRIP"

Ø 1,5 mm

Titan-Schrauben mit kreuzförmigem Schlitz (selbstbohrend)
 Titanium screws with cross slot (self-drilling)
 Tornillos de titanio ranurada en cruz (autoperforante)
 Vis en titane avec fente cruciforme (autoperforante)
 Viti in titanio con intaglio a croce (autoperforante)

"RIGID"

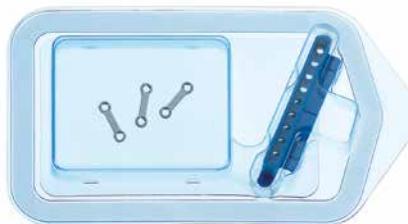
0,6 mm

Titan-Platten zur Fixierung des kranialen Knochendeckels
 Titanium plates for fixation of cranial bone flap
 Placas de titanio para la fijación de la calota craneal
 Plaques en titane pour la fixation du couvercle osseux crânien
 Placche in titanio per il fissaggio della calotta cranica



STERILE

Sterile Verpackung
 Sterile packaging
 Embalaje estéril
 Emballage stérile
 Imballaggio sterile



68.85.98S



a = 4 mm

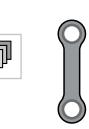
68.85.99S



a = 4 mm



a = 12 mm



a = 10 mm

"RIGID"



Die vergrößerte Senkbohrung lässt den Schraubenkopf tiefer in die Platte einsinken.
 The enlarged lowered borehole permits a deeper sinking of the screwhead into the plate.
 El hundimiento mayor permite que el tornillo profundiza en la placa.
 Le plus gros forage permet à la tête de vis d'être plus profondément insérée dans la plaque.
 L'incavo ingrandito permette alla testa della vite di infossarsi più profondamente.

Zubehör (nicht im Set enthalten)
 Accessory (not included in set)
 Accesorios (no forman parte del set)
 Accessoires (non inclus dans le set)
 Accessori (non incluso nel set)

Spiralbohrer
 Twist drill
 Broca espiral
 Foret hélicoïdal
 Perforatore elicoidale

STRYKER **68.76.31**

Schraubendrehhergriffe
 Screwdriver handles
 Mangos para atornillador
 Manches de tournevis
 Manici per cacciavite



Schraubendreherklinge
 Screwdriver blade
 Hoja para atornillador
 lame de tournevis
 Lama per cacciavite

DENTAL **75.23.19**



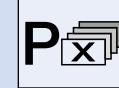
Bei harter Kortikalis oder Fixation kleiner Knochenfragmente wird ein Vorbohren empfohlen.
 In case of hard cortical bone substance or fixation of small bone fragments we recommend pre-drilling.
 En caso de una cortical muy dura o de la fijación de fragmentos pequeños recomendamos la perforación previa.
 Pour le cas où la corticale serait trop dure ou pour la fixation de petits fragments osseux, nous recommandons un préforage.
 In presenza di una corticale molto dura oppure per la fissazione di piccoli frammenti consigliamo di perforare prima dell'inserimento della vite.



Einmalprodukt
 Single use product
 Producto para un solo uso
 Produit à usage unique
 Prodotto monouso



Plattenstärke
 Thickness of plates
 Grosor de las placas
 Epaisseur des plaques
 Spessore delle placche

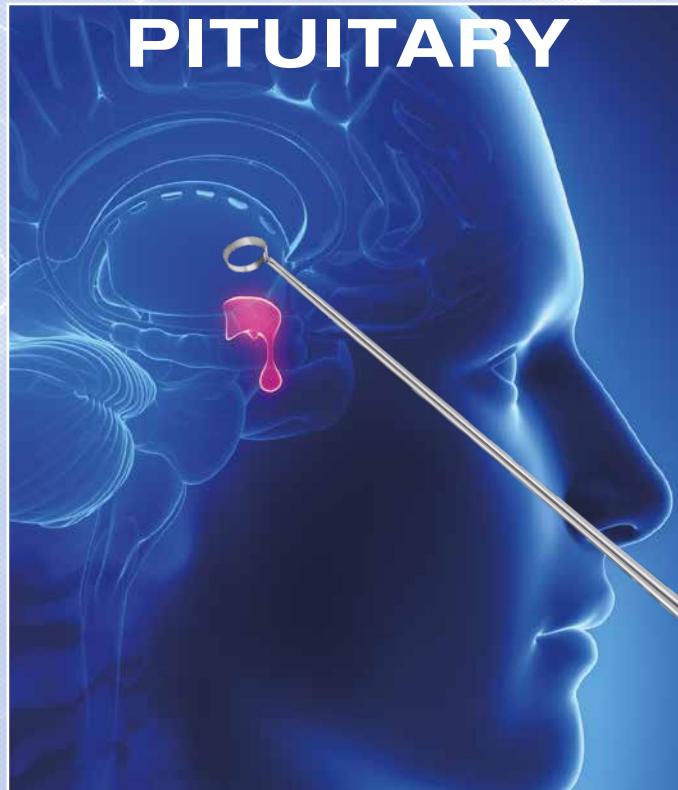


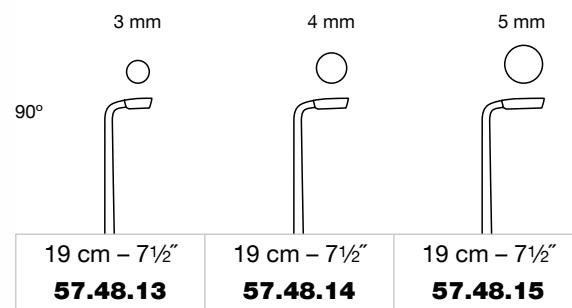
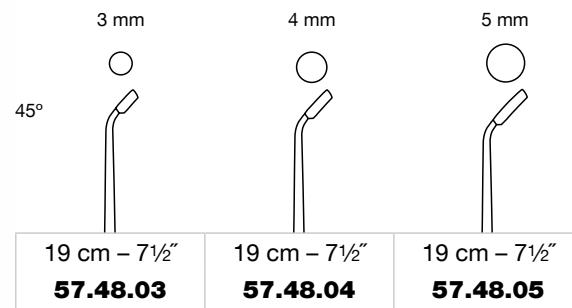
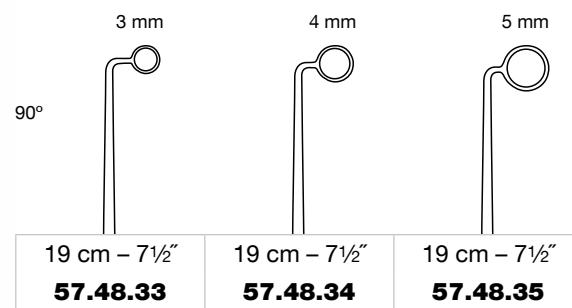
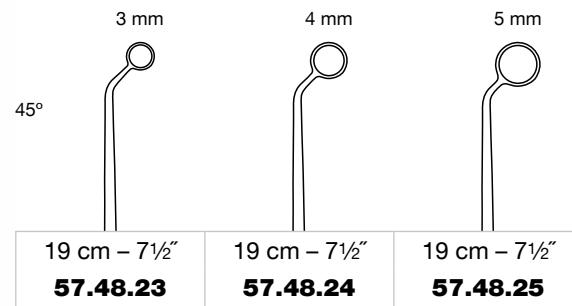
Verpackungseinheit "X" Stück
 Packing unit "X" pieces
 Paquete de "X" unidades
 Emballage de "X" pièces
 Confezione da "X" pezzi



Instrumente für die Hypophysektomie
Instruments for Hypophysectomy
Instrumentos para la hipofisectomía
Instruments pour l'hypophysectomie
Strumenti per ipofisectomia

B10



**B10****Instrumente für die Hypophysektomie**
Instruments for Hypophysectomy
Instrumentos para la hipofisectomía
Instruments pour l'hypophysectomie
Strumenti per ipofisectomiaKüretten
Curettes
Curetas
Curettes
Curette**Ray****Ray**

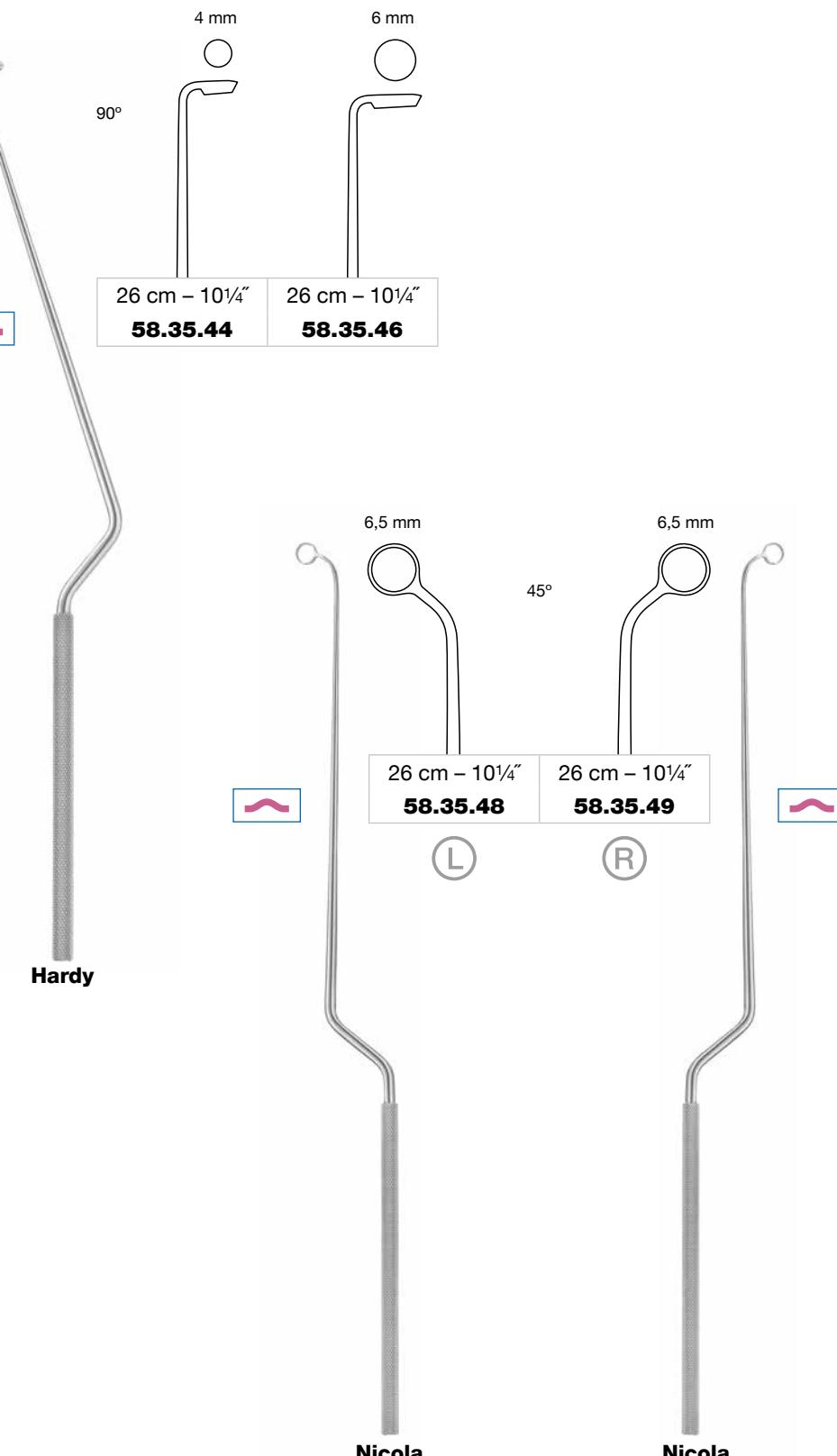
cm | inch



Instrumente für die Hypophysektomie
Instruments for Hypophysectomy
Instrumentos para la hipofisectomía
Instruments pour l'hypophysectomie
Strumenti per ipofisectomia

B10

Küretten
 Curettes
 Curetas
 Curettes
 Curette



biegbar
 malleable
 maleables
 malléables
 malleabili



links schneidend
 left side cutting
 cortante hacia izquierda
 coupante à gauche
 tagliente a sinistra



rechts schneidend
 right side cutting
 cortante hacia derecha
 coupante à droite
 tagliente a destra

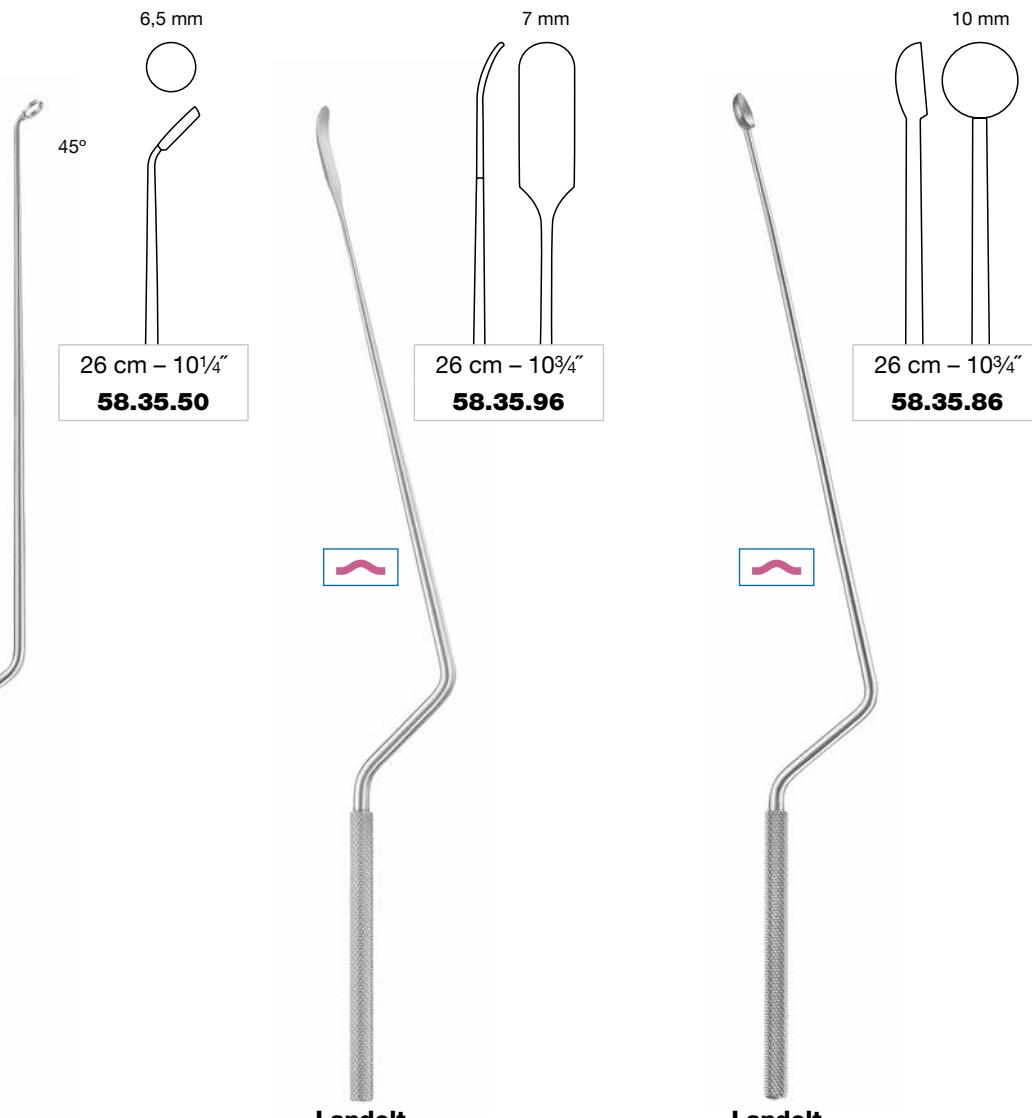


B10

Instrumente für die Hypophysektomie
Instruments for Hypophysectomy
Instrumentos para la hipofisectomía
Instruments pour l'hypophysectomie
Strumenti per ipofisectomia

Küretten
Curettes
Curetas
Curettes
Curette

Löffel
Curette
Cucharilla
Curette
Cucchiaio



cm inch



biegbar
maileable
maleables
malleables
malleabili

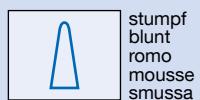
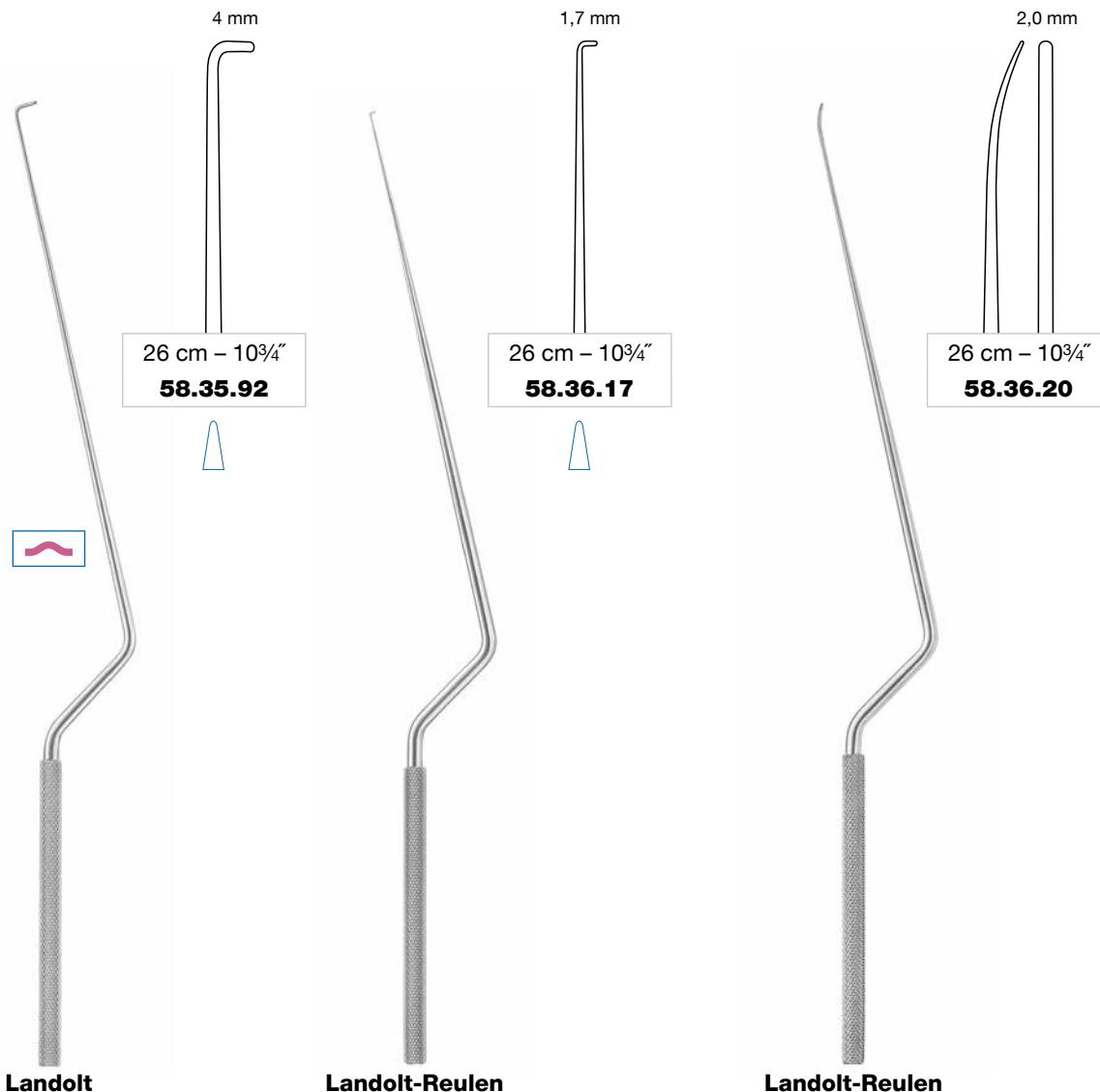


Instrumente für die Hypophysektomie
Instruments for Hypophysectomy
Instrumentos para la hipofisectomía
Instruments pour l'hypophysectomie
Strumenti per ipofisectomia

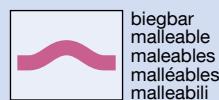
B10

Häkchen
Hooks
Ganchitos
Crochets
Uncini

Dissektor
Dissector
Dissector
Dissecteur
Dissettore



stumpf
blunt
romo
mousse
smussa



biegbar
malleable
maleables
malléables
malleabili



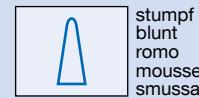
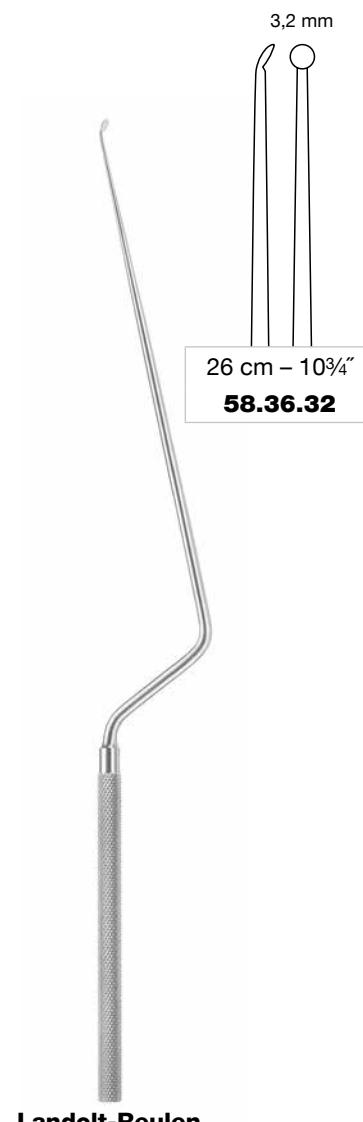
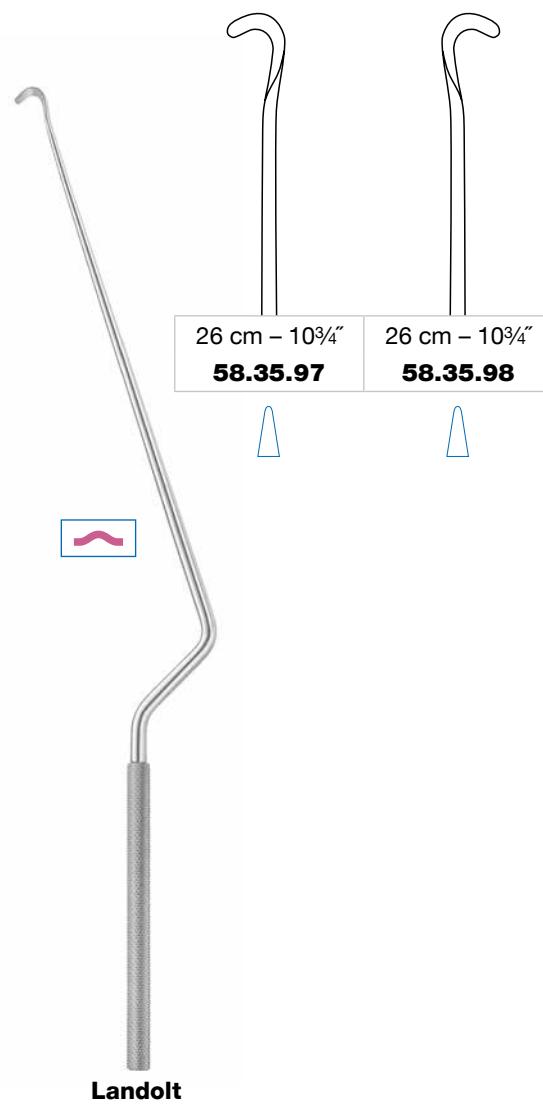
B10

Instrumente für die Hypophysektomie Instruments for Hypophysectomy Instrumentos para la hipofisectomía Instruments pour l'hypophysectomie Strumenti per ipofisectomia

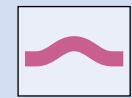
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3
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cm | inch

Enukleatoren
Enucleators
Enucleadores
Enucléateurs
Enucleatori

Raspatorium
Raspatory
Legras
Rugine
Periostotomo



stumpf
blunt
romo
mousse
smussa



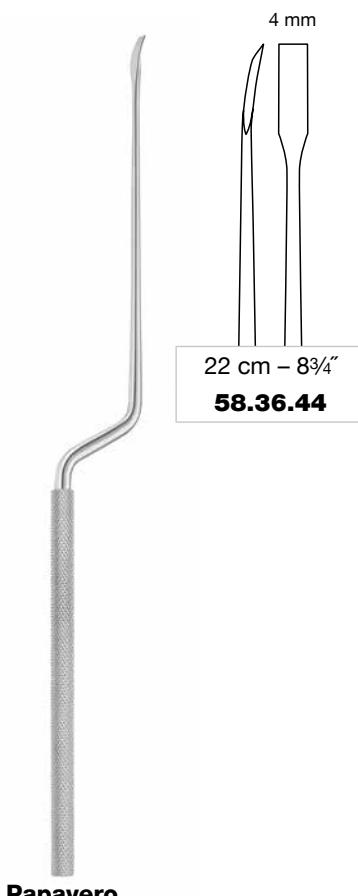
biegbar
malleable
maleables
malléables
malleabili



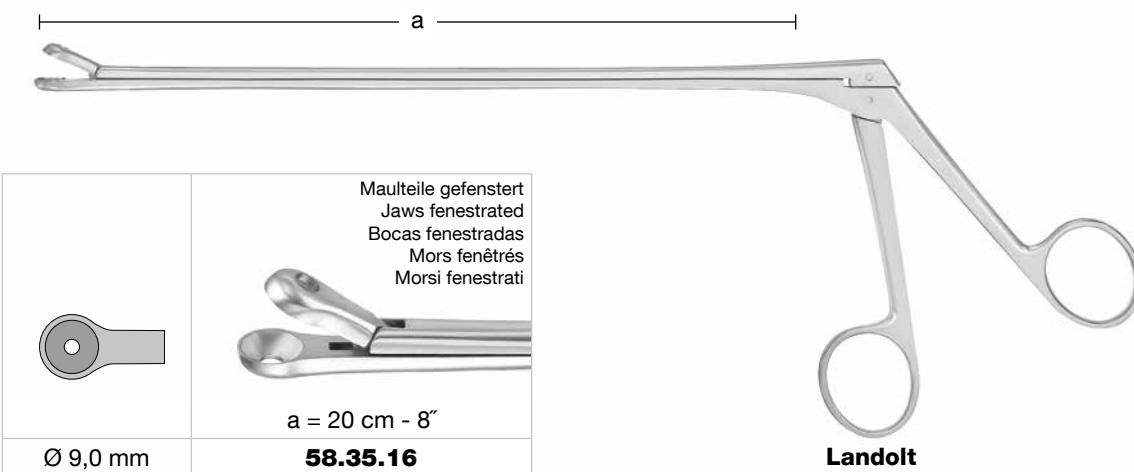
Instrumente für die Hypophysektomie
Instruments for Hypophysectomy
Instrumentos para la hipofisección
Instruments pour l'hypophysectomie
Strumenti per ipofisezione

B10

Meißel
 Chisel
 Cincel
 Ciseau burin
 Scalpello



Tumorfasszange
 Tumor grasping forceps
 Pinza para agarrar tumores
 Pince à saisir pour tumeurs
 Pinza per afferrare tumori

Papavero

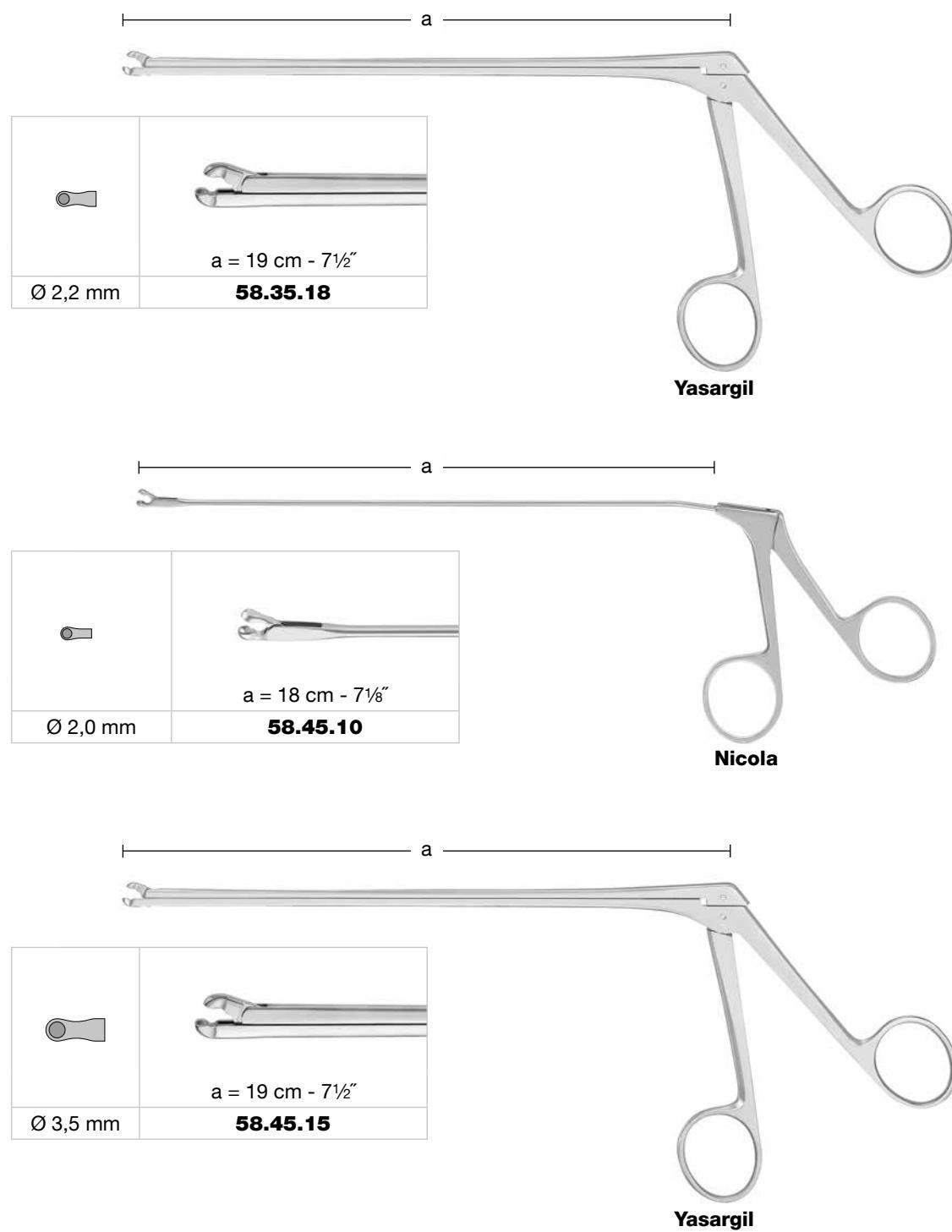


B10

Instrumente für die Hypophysektomie Instruments for Hypophysectomy Instrumentos para la hipofisectomía Instruments pour l'hypophysectomie Strumenti per ipofisectomia

Löffelzangen
Forceps cup jaws
Pinzas con boca de cucharilla
Pince mors cuillère
Pinze con morso a cuchiaio

21
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6
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4
3
2
1
cm | inch





Instrumente für die Hypophysektomie
Instruments for Hypophysectomy
Instrumentos para la hipofisectomía
Instruments pour l'hypophysectomie
Strumenti per ipofisectomia

B10

Mikro-Löffelzangen
Micro forceps cup jaws
Micro pinzas con boca de cucharilla
Micro pinces mors cuillère
Micro pinze con morso a cucchiaio

a



	$a = 14 \text{ cm} - 5\frac{1}{2}''$
$\varnothing 1,0 \text{ mm}$	58.46.20

a



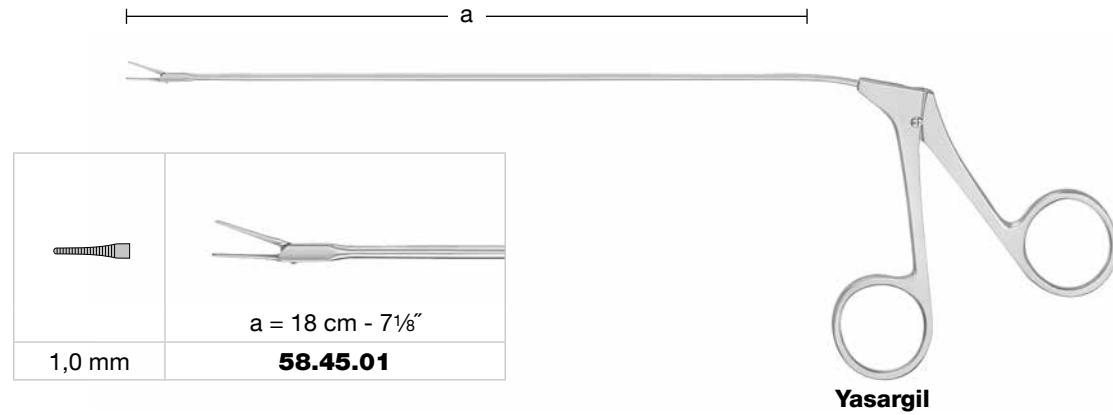
	$a = 14 \text{ cm} - 5\frac{1}{2}''$
$\varnothing 2,0 \text{ mm}$	58.46.25
$\varnothing 3,0 \text{ mm}$	58.46.30



B10

Instrumente für die Hypophysektomie Instruments for Hypophysectomy Instrumentos para la hipofisectomía Instruments pour l'hypophysectomie Strumenti per ipofisectomia

Fasszange
Grasping forceps
Pinza para agarrar
Pince à saisir
Pinza per afferrare



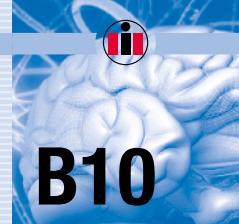
Mikro-Schere
Micro scissors
Micro tijera
Micro ciseaux
Micro forbice



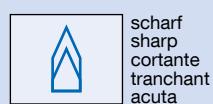
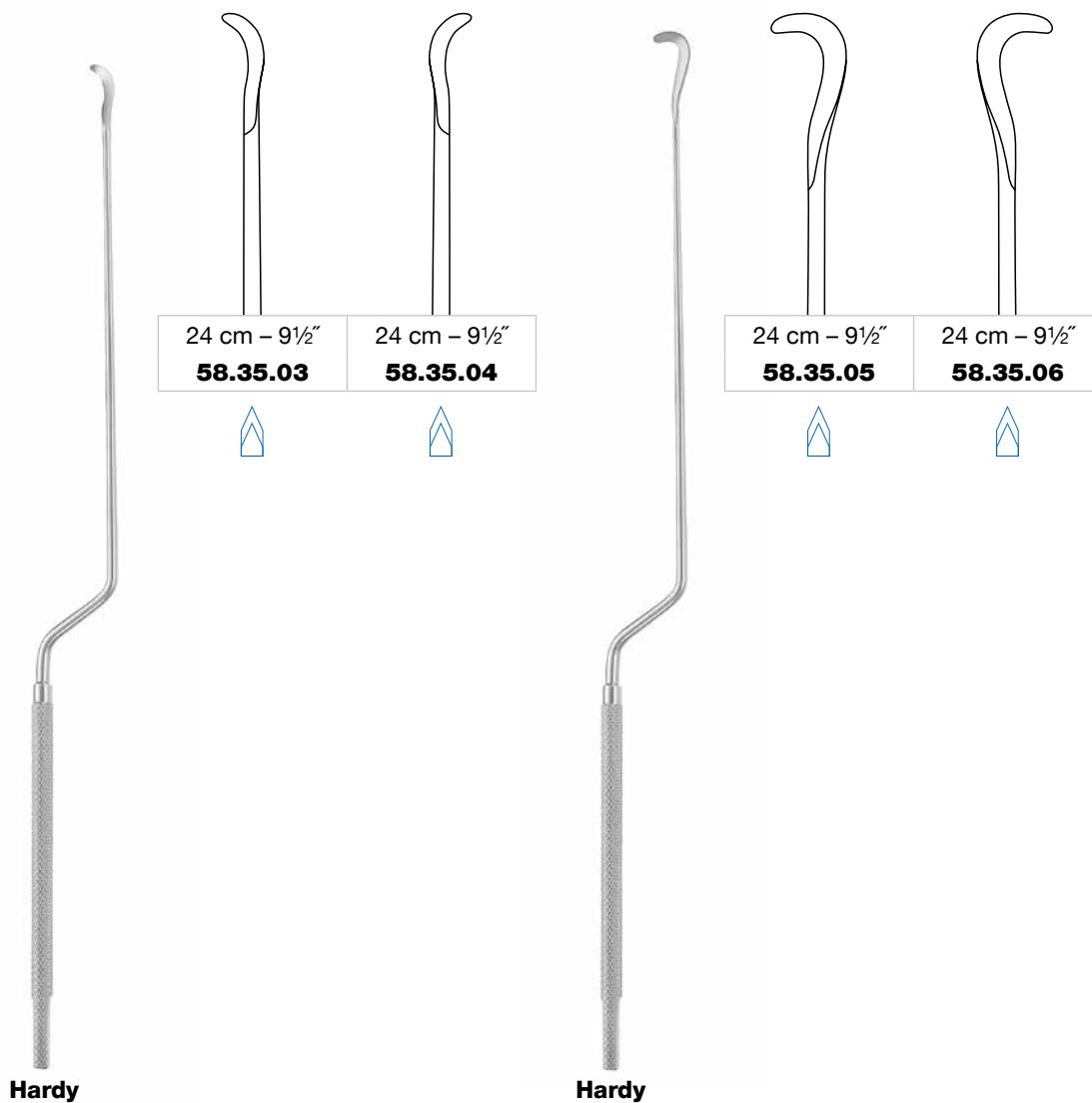
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3
2
1
cm/inch



Instrumente für die transsphenoidale Hypophysektomie
Instruments for Transsphenoidal Hypophysectomy
Instrumentos para la hipofisectomía transesfenoidal
Instruments pour l'hypophysectomie transsphénoïdale
Strumenti per ipofisectomia transfenoidale



Dissektoren
Dissectors
Disectores
Dissecteurs
Dissettori





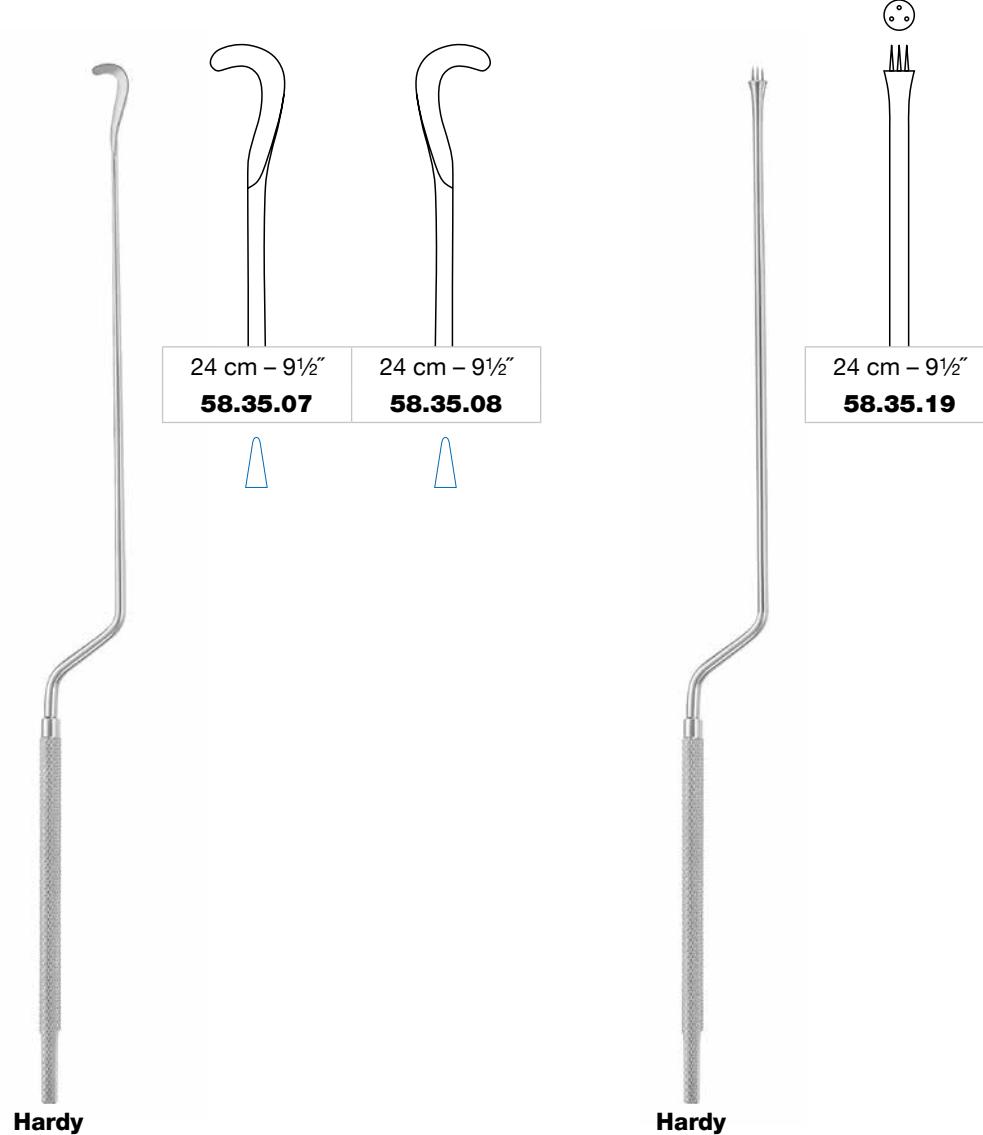
B10

Instrumente für die transsphenoidale Hypophysektomie Instruments for Transsphenoidal Hypophysectomy Instrumentos para la hipofisectomía transesfenoidal Instruments pour l'hypophysectomie transsphénoïdale Strumenti per ipofisectomia transfenoidale

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2
1
cm | inch

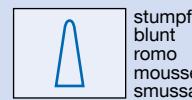
Enukleatoren
Enucleators
Enucleadores
Enucléateurs
Enucleatori

Implantationsgabel
Implant fork
Horquilla para implantar
Fourchette pour implants
Forchetta per trapianto



Hardy

Hardy



stumpf
blunt
romo
mousse
smussa



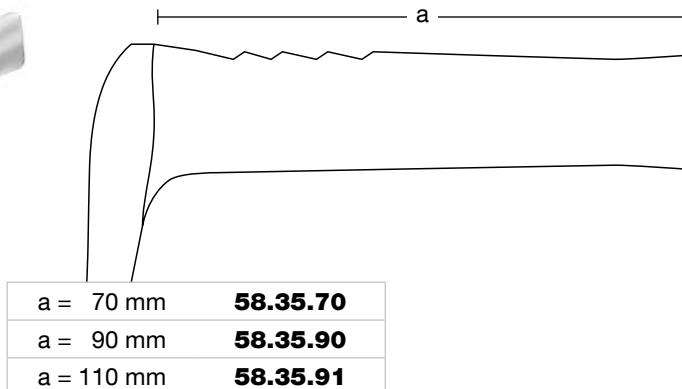
Instrumente für die transsphenoidale Hypophysektomie
Instruments for Transsphenoidal Hypophysectomy
Instrumentos para la hipofisectomía transesfenoidal
Instruments pour l'hypophysectomie transsphénoïdale
Strumenti per ipofisectomia transfenoidale

B10

Spekula
Specula
Espéculos
Spéculums
Specoli



Cushing-Landolt



Spreizzange für Spekula
Spreading forceps for specula
Pinza dilatador para espéculos
Pince écartante pour spéculums
Pinza divaricatrice per specoli



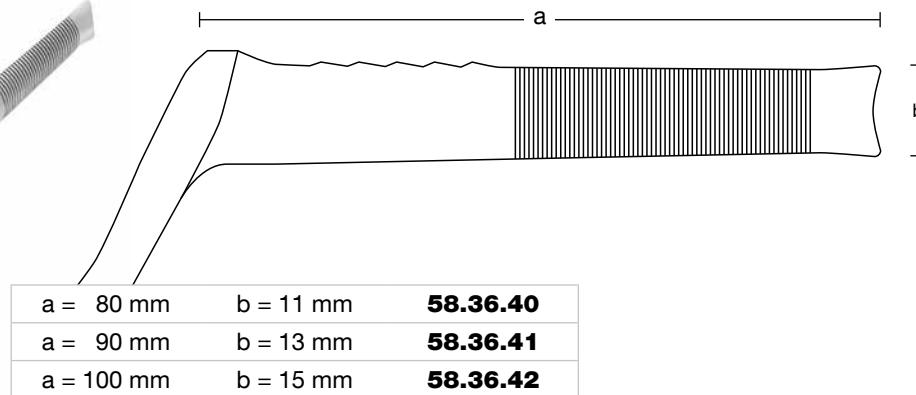
Landolt



B10

Instrumente für die transsphenoidale Hypophysektomie Instruments for Transsphenoidal Hypophysectomy Instrumentos para la hipofisección transesfenoidal Instruments pour l'hypophysectomie transsphénoïdale Strumenti per ipofisectomia transfenoidale

Spekula
Specula
Espéculos
Spéculums
Specoli



Papavero-Caspar

Spreizer für Spekula
Spreader for specula
Separador para espéculos
Ecarteur pour spéculums
Divaricatore per specoli



Papavero-Hartmann



Das Druckluft-Motorensystem "VipAir" von Medicon wurde speziell für das Fräsen und Bohren an Schädel- bzw. Wirbelsäulenknochen konzipiert. Das System kombiniert Sicherheit und Präzision in einem ergonomischen Design mit maximaler Leistung bei kleinstmöglicher Bauweise.

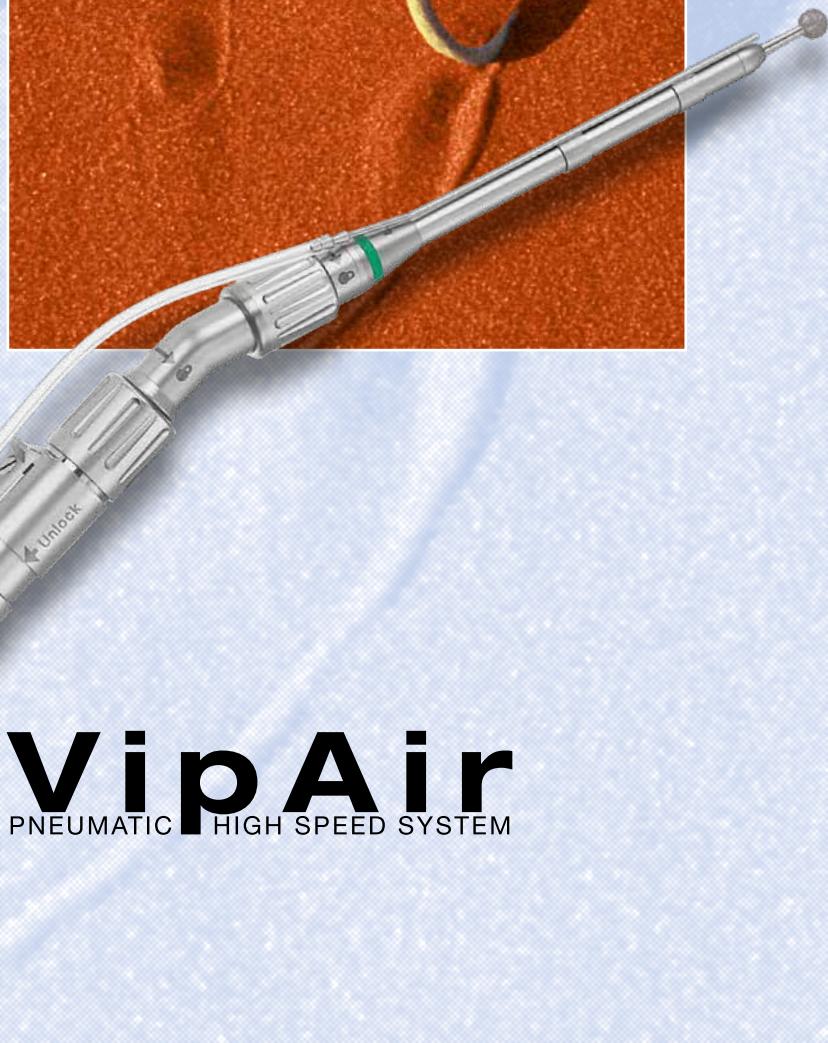
The Medicon pneumatic high speed system "VipAir" was specially designed for reaming and drilling procedures at bones of the skull or spine. The system combines safety and precision in an ergonomic design with maximal power in a unit of minimal dimensions.

El sistema de motor neumático "VipAir" de Medicon ha sido concebido específicamente para el fresado y la perforación de huesos del cráneo y de la columna vertebral. El sistema concentra seguridad, precisión y la máxima potencia en un diseño ergonómico y extremadamente compacto.

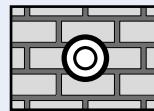
Le système de moteur pneumatique "VipAir" de Medicon a été spécialement conçu pour le fraisage et le forage des os du crâne et de la colonne vertébrale. Le système allie sécurité, précision et design ergonomique à une performance maximale pour des dimensions aussi compactes que possible.

Il sistema motore pneumatico "VipAir" Medicon è ideato in particolare per fresare e perforare le ossa craniche e della colonna vertebrale. Il sistema combina sicurezza e precisione con un design ergonomico e massime prestazioni, il tutto in una struttura estremamente compatta.

PNEUMATIC HIGH SPEED



VipAir
PNEUMATIC HIGH SPEED SYSTEM



Druckluft
Compressed air
Aire comprimido
Air comprimé
Aria compressa



Fußpedal
Foot switch
Interruptor a pedal
Interrupteur à pédale
Interruttore a pedale



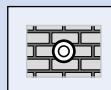
Trepanmotor (siehe Seite 144)
Trepan motor (see page 144)
Motor de trépano (véase página 144)
Moteur à trépan (voir page 144)
Motore trapano (vedi pagina 144)



Winkelmotor
Angled motor
Motor angulado
Moteur angulaire
Motore angolato



Motor mit INTRA-Kupplung
Motor with INTRA coupling
Motor con acoplamiento INTRA
Moteur avec embrayage INTRA
Motore con accoppiamento INTRA



Wandanschluss
Wall connection
Pared de conexión
Connexion au mur
Attacco parete



Wandschlauch
Wall tube
Tubo mural
Tuyau mural
Tubo parete



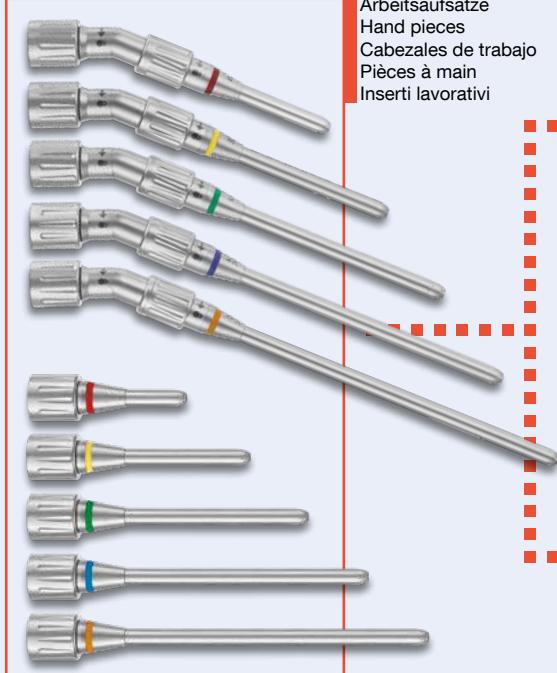
Motorschlauch
Motor tube
Tubo de motor
Tuyau moteur
Tubo motore



Trepanfräser (siehe Seite 145)
 Trepanation burrs (see page 145)
 Fresas de trépano (véase página 145)
 Fraises à trépan (voir page 145)
 Punte per perforatore (vedi pagina 145)

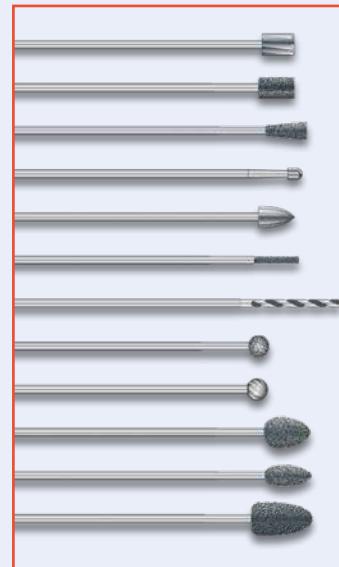
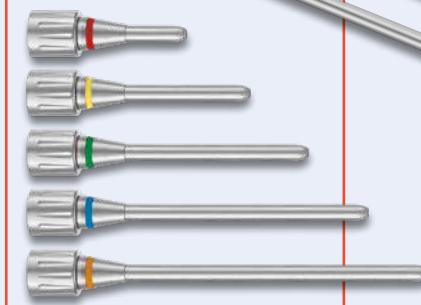
Werkzeuge
 Tools
 Terminales
 Outils
 Punte

gewinkelt
 angled
 anguladas
 angulaires
 angolati



Arbeitsaufsätze
 Hand pieces
 Cabezas de trabajo
 Pièces à main
 Inserti lavorativi

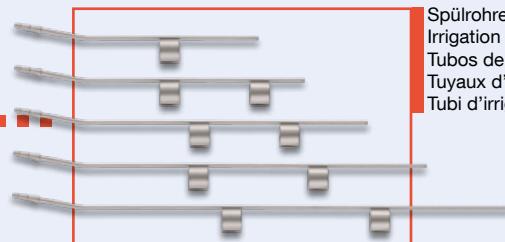
gerade
 straight
 rectas
 droites
 retti



Spülrohre
 Irrigation tubes
 Tubos de irrigación
 Tuyaux d'irrigation
 Tubi d'irrigazione



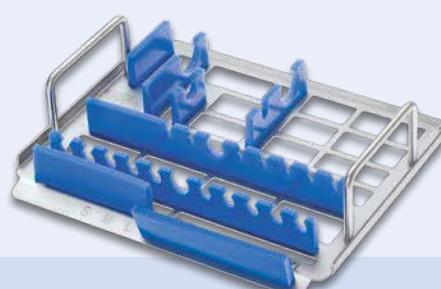
Kraniotome (siehe Seite 145)
 Craniotomes (see page 145)
 Cráneotomos (véase página 145)
 Crâniotomes (voir page 145)
 Craniotomi (vedi pagina 145)



Kraniotomfräser (siehe Seite 145)
 Craniotome burrs (see page 145)
 Fresas para craneotomo (véase página 145)
 Fraises pour crâniotome (voir page 145)
 Frese per craniotomo (vedi pagina 145)



Chirurgische Handstücke und Mikrosägen
 Surgical hand pieces and micro saws
 Piezas de mano quirúrgicas y micro sierras
 Pièces à main chirurgicales et micro scies
 Manipoli chirurgici e micro seghe



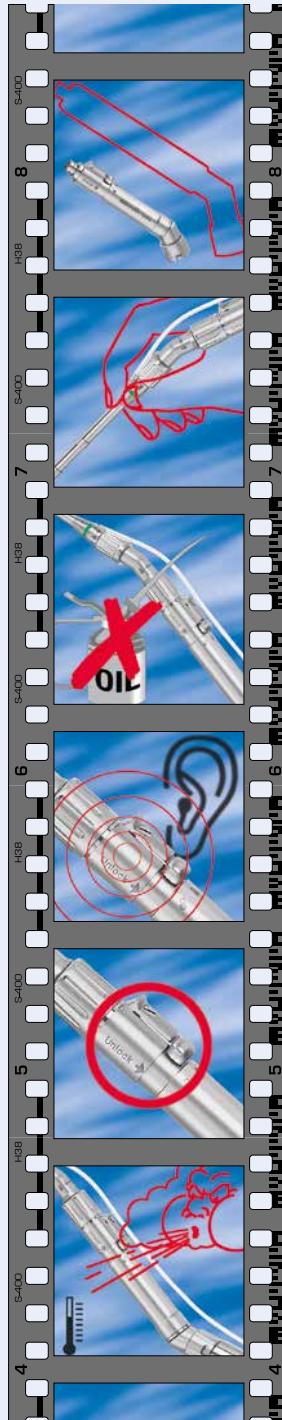


B11

Vorteile
Advantages
Ventajas
Avantages
Vantaggi

VipAir
 PNEUMATIC HIGH SPEED SYSTEM

Klein und handlich
small and handy
pequeño y manejable
petit et maniable
piccolo e maneggevole



Maximale Leistung bei kleinstmöglicher Bauweise
 Maximum performance using the smallest possible construction
 Rendimiento máximo con una construcción compacta
 Puissance maximale pour la plus petite construction possible
 Rendimento massimo grazie ad una costruzione il più possibile ridotta

Ergonomie und Balance garantieren Präzision und Instrumentenkontrolle
 Ergonomics and balance guarantee precision and instrument control
 Ergonomía y equilibrio garantizan precisión y el control sobre el instrumento
 Ergonomie et balance garantissent la précision et le contrôle des instruments
 Ergonomia ed equilibrio garantiscono precisione e controllo sullo strumento

Ölfreier und wartungsfreundlicher Motor
 Oil free motor and easy to maintain
 Motor libre de aceite que requiere poco mantenimiento
 Moteurs sans huile et entretien facile
 Motore senza olio che non richiede manutenzione

Leise Motorengeräusche ermöglichen ein stressfreies Arbeiten
 A low-noise motor ensures stressfree working environment
 Un motor silencioso posibilita un trabajo sin estrés
 Moteurs silencieux permettant un travail sans stress
 Il motore silenzioso rende possibile un lavoro senza stress

Sichere und schnelle Bedienbarkeit durch MEDICON-Spezialkupplung
 Secure and quick handling due to the MEDICON special coupling
 Manejo rápido y seguro mediante el acoplamiento MEDICON
 Maniement sûr et rapide par accouplement MEDICON spécial
 Utilizzo sicuro e veloce grazie all'accoppiamento speciale MEDICON

Kühlwirkung der Druckluft verhindert ein Erwärmen des Motors
 Cooling effect of compressed air avoids warming up of the motor
 Refrigeración por aire comprimido evita el calentamiento del motor
 L'effet de refroidissement par l'air comprimé empêche la surchauffe du moteur
 L'azione refrigerante dell'aria compressa impedisce il surriscaldamento del motore



Motor mit INTRA-Kupplung
 Motor with INTRA coupling
 Motor con acoplamiento INTRA
 Moteur avec embrayage INTRA
 Motore con accoppiamento INTRA

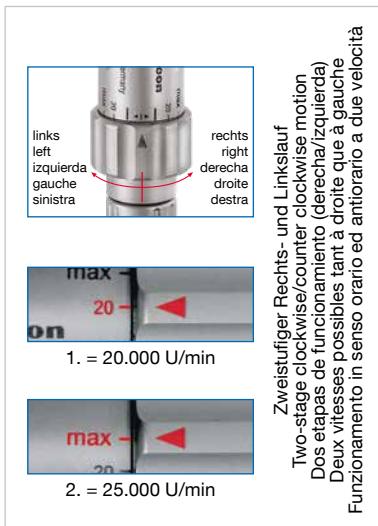


Für Standard-Chirurgiehandstücke und Mikro-Sägen
 For standard surgical hand pieces and micro saws
 Para piezas de mano quirúrgicas estándar y micro sierras
 Pour pièces à main chirurgicales standard et de micro scies
 Per l'utilizzo di manipoli chirurgici standard e micro seghe

DIN 13940
 ISO 3964



10 cm - 4" **93.00.22**



- Sehr leiser und vibrationsfreier Lauf
- Kleine Bauweise, geringes Gewicht und stark im Durchzug
- Zweistufiger Rechts- und Linkslauf
- Quiet and without vibrations
- Small, lightweight construction and powerful torque
- Two-stage clockwise/counter clockwise motion
- Muy silencioso y sin vibraciones durante el uso
- Construcción ergonómica, poco peso y momento de giro muy elevado
- Dos etapas de funcionamiento (derecha/izquierda)
- Silencieux et sans vibration
- Construction micro, poids léger et puissance de rotation élevée
- Deux vitesses possibles tant à droite que à gauche
- Funzionamento molto silenzioso e privo di vibrazioni
- Dimensioni ridotte, peso minimo ed elevato momento torcente
- Funzionamento in senso orario ed antiorario a due velocità

Technische Daten	Drehzahl bei 8 bar Revolutions per minute at 8 bar Número de revoluciones a 8 bar Nombre de tours à 8 bar Numero di giri a 8 bar	Drehmoment bei 8 bar Torque at 8 bar Momento de giro a 8 bar Couple à 8 bar Momento torcente a 8 bar	Leistung bei 8 bar Output at 8 bar Potencia a 8 bar Puissance à 8 bar Potenza a 8 bar	Empfohlener Druck Recommended pressure Presión recomendada Pression recommandée Pressione raccomandata	Freigegebener Druck Approved pressure Presión permitida Pression libérée Pressione permessa
93.00.22	20.000-25.000 U/min	4,0 Ncm	44 Watt	8 bar	8±2 bar



B11

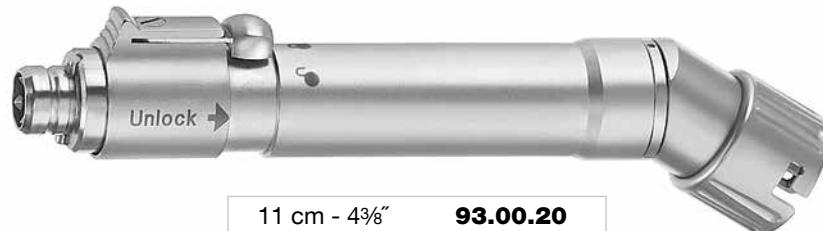
Druckluftmotoren
Pneumatic High Speed Motors
Motores neumáticos
Moteurs pneumatiques
Motori pneumatici

VipAir
 PNEUMATIC HIGH SPEED SYSTEM

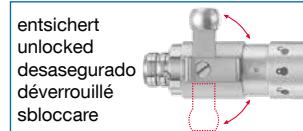
Winkelmotor
 Angled motor
 Motor angulado
 Moteur angulaire
 Motore angolato



Das drehbare Winkelstück verhindert ein Verwinden des Motorschlauches
 The rotatable elbow avoids a torsion of the motor tube
 La pieza de mano giratoria evita una torsión del tubo de motor
 Le coude à plat pivotant empêche une torsion du tuyau moteur
 Il raccordo girevole impedisce una torsione del tubo motore



11 cm - 4 3/8" 93.00.20



Sicherungsriegel der Kupplung
 Safety lock of coupling
 Pasador de seguridad del acoplamiento
 Embrayage à verrou de sécurité
 Chiusura di sicurezza dell'accoppiamento

Technische Daten Technical data Especificaciones técnicas Caractéristiques techniques Dati tecnici	Drehzahl bei 8 bar Revolutions per minute at 8 bar Número de revoluciones a 8 bar Nombre de tours à 8 bar Numero di giri a 8 bar	Drehmoment bei 8 bar Torque at 8 bar Momento de giro a 8 bar Couple à 8 bar Momento torcente a 8 bar	Leistung bei 8 bar Output at 8 bar Potencia a 8 bar Puissance à 8 bar Potenza a 8 bar	Empfohlener Druck Recommended pressure Presión recomendada Pression recommandée Pressione raccomandata	Freigegebener Druck Approved pressure Presión permitida Pression libérée Pressione permessa
93.00.20	100.000 U/min	2,8 Ncm	60 Watt	6-8 bar	8±2 bar

21
 20
 19
 18
 17
 16
 15
 14
 13
 12
 11
 10
 9
 8
 7
 6
 5
 4
 3
 2
 1
 cm inch



Arbeitsaufsätze und Spülrohre
Hand Pieces and Irrigation Tubes
Cabezales de trabajo y tubos de irrigación
Pièces à main et tuyaux d'irrigation
Inserti lavorativi e tubi d'irrigazione

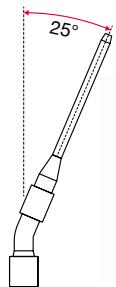
B11

Arbeitsaufsätze
 Hand pieces
 Cabezales de trabajo
 Pièces à main
 Inserti lavorativi

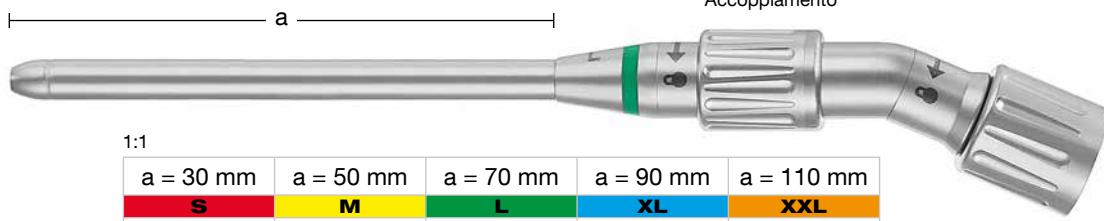


1:1

$a = 20 \text{ mm}$	$a = 40 \text{ mm}$	$a = 60 \text{ mm}$	$a = 80 \text{ mm}$	$a = 100 \text{ mm}$
S	M	L	XL	XXL
93.00.40	93.00.42	93.00.44	93.00.46	93.00.48



Kupplung
 Coupling
 Acoplamiento
 Embrayage
 Accoppiamento

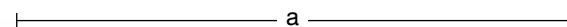


1:1

$a = 30 \text{ mm}$	$a = 50 \text{ mm}$	$a = 70 \text{ mm}$	$a = 90 \text{ mm}$	$a = 110 \text{ mm}$
S	M	L	XL	XXL
93.00.50	93.00.52	93.00.54	93.00.55	93.00.56



Spülrohre
 Irrigation tubes
 Tubos de irrigación
 Tuyaux d'irrigation
 Tubi d'irrigazione



1:1

$a = 45 \text{ mm}$	$a = 55 \text{ mm}$	$a = 75 \text{ mm}$	$a = 90 \text{ mm}$	$a = 115 \text{ mm}$
S	M	L	XL	XXL
93.00.70	93.00.72	93.00.74	93.00.76	93.00.78

**B11**

Werkzeuge
Tools
Terminales
Outils
Punte

VipAir
 PNEUMATIC HIGH SPEED SYSTEM

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm | inch

Diamant-Kugelfräser

Diamond dust burrs

Fresas redondas de diamante

Fraises forme boule diamantées

Frese a pallina diamantate

STERILE | R

normal
regular
normal
normale
normale

1:1

S	M	L	XL	XXL	
93.01.20	93.02.01	93.03.01	93.06.01	93.04.01	Ø 1,0 mm
93.01.22	93.02.03	93.03.03			Ø 1,8 mm
			93.06.03	93.04.03	Ø 2,0 mm
	93.02.05	93.03.05			Ø 2,3 mm
93.01.01	93.02.07	93.03.07	93.06.07	93.04.07	Ø 3,1 mm
93.01.03	93.02.09	93.03.09	93.06.09	93.04.09	Ø 4,0 mm
93.01.05	93.02.11	93.03.08	93.06.11	93.04.21	Ø 5,0 mm
93.01.07	93.02.13	93.03.10	93.06.13	93.04.23	Ø 6,0 mm



Diamant-Walzenfräser

Diamond cutting burrs, barrel style

Fresas cilíndricas de diamante

Fraises cylindriques diamantées

Frese cilindriche diamantate

STERILE | R

grob
abrasive
abrasivo
abrasive
abrasivo

1:1

S	M	L	XL	XXL	
	93.02.66	93.03.66			Ø 5,0 mm
	93.02.68	93.03.68			Ø 6,0 mm



Rosenbohrer

Rosen burrs

Brocas Rosen

Fraises Rosen

Perforatori di Rosen

STERILE | R

7
6
5
4
3
2
1
cm | inch

1:1

S	M	L	XL	XXL	
	93.02.45				Ø 1,0 mm
	93.02.17	93.03.11			Ø 1,8 mm
			93.07.03	93.05.03	Ø 2,0 mm
	93.02.19	93.03.13			Ø 2,3 mm
93.01.09	93.02.21	93.03.15	93.07.05	93.05.07	Ø 3,1 mm
93.01.11	93.02.23	93.03.17	93.07.07	93.05.09	Ø 4,0 mm
93.01.13	93.02.25	93.03.19	93.07.08	93.05.11	Ø 5,0 mm
93.01.23	93.02.30	93.03.20	93.07.09	93.05.13	Ø 6,0 mm



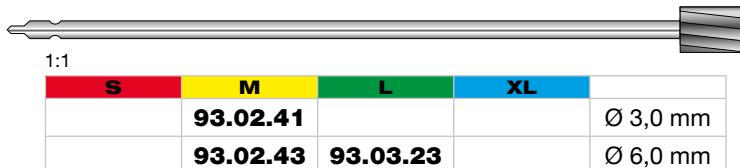
mit Diamantkörnung
with diamond grit
con granulación de diamante
avec grains de diamant
con granulazione di diamante



mit blanker Stirnfläche
with polished front part
con superficie frontal lisa
avec partie frontale lisse
con superficie frontale liscia

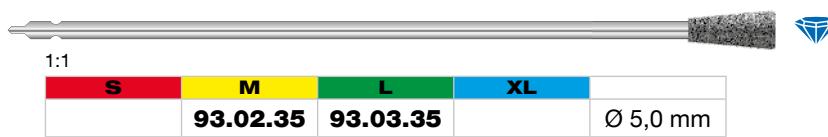
Walzenfräser
Cutting burrs, barrel style
Fresas cilíndricas
Fraises cylindriques
Frese cilindriche

STERILE [R]



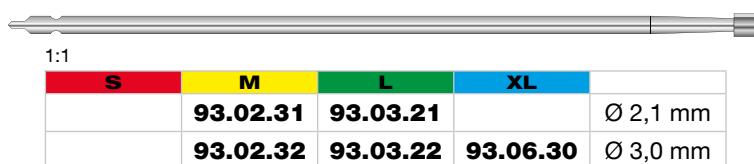
Wirbelkörperfräser
Vertebra burrs
Fresas para vértebras
Fraises vertébrales
Frese per vertebre

STERILE [R]



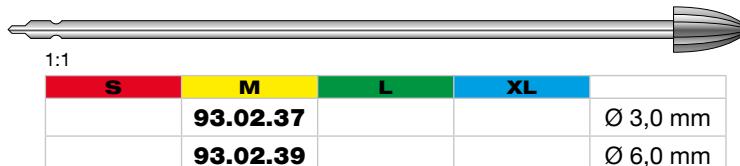
Neurofräser
Neuro burrs
Fresas neuro
Fraises neuro
Frese neuro

STERILE [R]



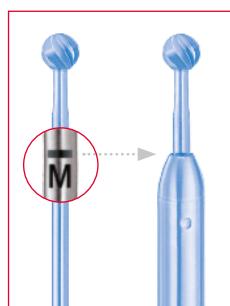
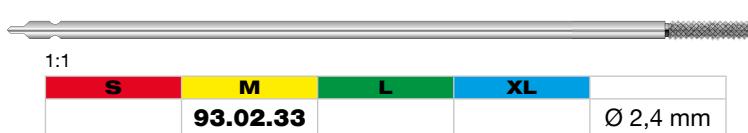
Fräser
Burrs
Fresas "Flameshape"
Fraises
Frese

STERILE [R]



Zementbohrer
Cement drill
Broca para cemento
Fraise à ciment
Perforatore per cemento

STERILE [R]



Alle Werkzeuge besitzen eine Markierung zur schnellen und sicheren Positionierung des Werkzeuges im Arbeitsaufsatz und eine Längenangabe (S, M, L, XL, XXL) zur besseren Unterscheidung.

All tools have a marking for a quick and secure positioning of the tool into the hand piece as well as an indication of length (S, M, L, XL, XXL) for a better distinction.

Los terminales disponen de una marca para el posiconamiento rápido y seguro en el cabezal. Esta marca sirve también como indicación de longitud (S, M, L, XL, XXL).

Tous les outils ont un marquage permettant une positionnement sûre et rapide dans les inserts, et un marquage de taille (S, M, L, XL, XXL) pour un meilleur choix.

Tutte le punte presentano una marcatura per posizionarle velocemente ed in modo sicuro negli inserti. La stessa marcatura serve anche a distinguere meglio la lunghezza (S, M, L, XL, XXL).



mit Diamantkörnung
with diamond grit
con granulación de diamante
avec grains de diamant
con granulazione di diamante

**B11**

Werkzeuge
Tools
Terminales
Outils
Punte

VipAir
 PNEUMATIC HIGH SPEED SYSTEM

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
cm/inch

Spiralbohrer
 Twist drills
 Brocas espirales
 Fraise en spirale
 Perforatori a spirale

STERILE R



1:1

S	M	L	XL	
93.01.17	93.02.47	93.03.40	93.06.08	Ø 1,5 mm
93.01.19	93.02.49			Ø 2,0 mm

Dermabrasionsfräser
 Burrs for dermabrasion
 Fresas para la dermoabrasión
 Fraises à dermabrasion
 Frese per la dermoabrasione

STERILE R

feinkörnig
 fine-grained
 de grano fino
 à grains fins
 granuloso



1:1

M	Ø 9 mm
93.02.20	

feinkörnig
 fine-grained
 de grano fino
 à grains fins
 granuloso



1:1

M	Ø 6 mm
93.02.22	

grobkörnig
 coarse-grained
 de grano grueso
 à gros grains
 grossolano



1:1

M	Ø 10 mm
93.02.24	

Spritzschutz für die Dermabrasion
 Splash guard for dermabrasion
 Protección contra riego para la dermoabrasión
 Protection anti-projections à dermabrasion
 Protezione antispruzzo per la dermoabrasione



Schützt das Operationsfeld vor Verunreinigung
 Protects the operation area from contamination
 Protege el campo operatorio de ensuciamiento
 Protège le champ opératoire des projections
 Protegge il campo operatorio dalle impurità

Luer-Lock



1:1

4,5 cm - 1 3/4" **93.00.60**



mit Diamantkörnung
 with diamond grit
 con granulación de diamante
 avec grains de diamant
 con granulazione di diamante



Fußpedal und Schläuche
Foot Switch and Tubes
Interruptor a pedal y tubos
Interrupteur à pédale et tuyaux
Interruttore a pedale e tubi

B11

Fußpedal
 Foot switch
 Interruptor a pedal
 Interrupteur à pédale
 Interruttore a pedale



110 × 200 × 140 mm

93.00.10

Wandschläuche
 Wall tubes
 Tubos murales
 Tuyaux muraux
 Tubi parete



"OPEN-END" **93.00.00** 4,5 m



"DRAEGER" **93.00.02** 4,5 m



"SYNTHES" **93.00.04** 4,5 m

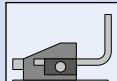
Motorschlauch
 Motor tube
 Tubo de motor
 Tuyau moteur
 Tubo motore



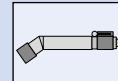
93.00.15 2,5 m



Wandanschluss
 Wall connection
 Pared de conexión
 Connexion au mur
 Attacco parete



Fußpedal
 Foot switch
 Interruptor a pedal
 Interrupteur à pédale
 Interruttore a pedale



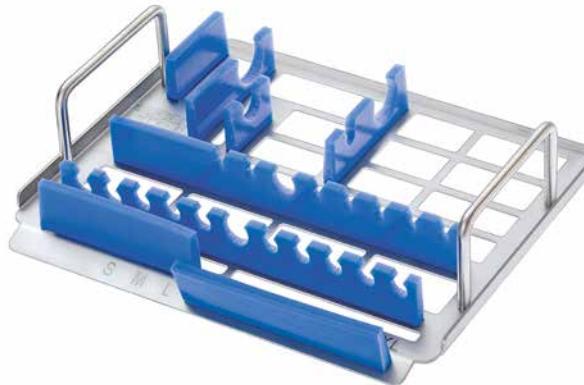
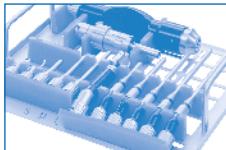
Druckluftmotoren
 Pneumatic high speed motors
 Motores neumáticos
 Moteurs pneumatiques
 Motori pneumatici

**B11**

Zubehör
Accessories
Accesorios
Accessoires
Accessori

VipAir
 PNEUMATIC HIGH SPEED SYSTEM

Reinigungs-Tray für die maschinelle Reinigung
 Cleaning tray for mechanical cleaning
 Bandeja de limpieza para la limpieza automática
 Tray de nettoyage pour nettoyage en machine
 Supporto di pulizia per la pulizia a macchina



240 x 200 x 60 mm

93.00.83

Doppelcontainer
 Double container
 Contenedor doble
 Container double
 Contenitore doppio



502 x 239 x 102 mm

93.00.85

Werkzeugkassette mit Silikonmatte
 Tools tray including silicon mat
 Caja para terminales con estera de silicona
 Cassette pour outils avec tapis en silicone
 Cassetta per attrezzi con tappetino in silicone



190 x 102 x 19 mm

49.90.00

Motorschmiermittel
 Lubrication of the motor
 Lubrificante para el motor
 Lubrifiant pour le moteur
 Lubrificante per motore



500 ml

63.69.96

Sprühadapter
 Spray adaptor
 Adaptador de spray
 Adaptateur du spray
 Adattatore per spray



1:1



35 mm / Ø 9 mm

93.00.80

Kunststoff (autoklavierbar bis 134 °C bei 3 bar)
 Plastic (autoclavable up to 134 °C at 3 bar)
 Plástico (autoclavable hasta 134 °C bajo presión de 3 bar)
 Plastique (autoclavable à 134 °C sous pression de 3 bars)
 Plastica (autoclavabile fino a 134 °C sotto pressione di 3 bar)



**Siebvorschläge
Set Suggestions
Proposiciones de juegos
Propositions pour boîtes
Proposte di set**

C

neuro
CRANIALIS

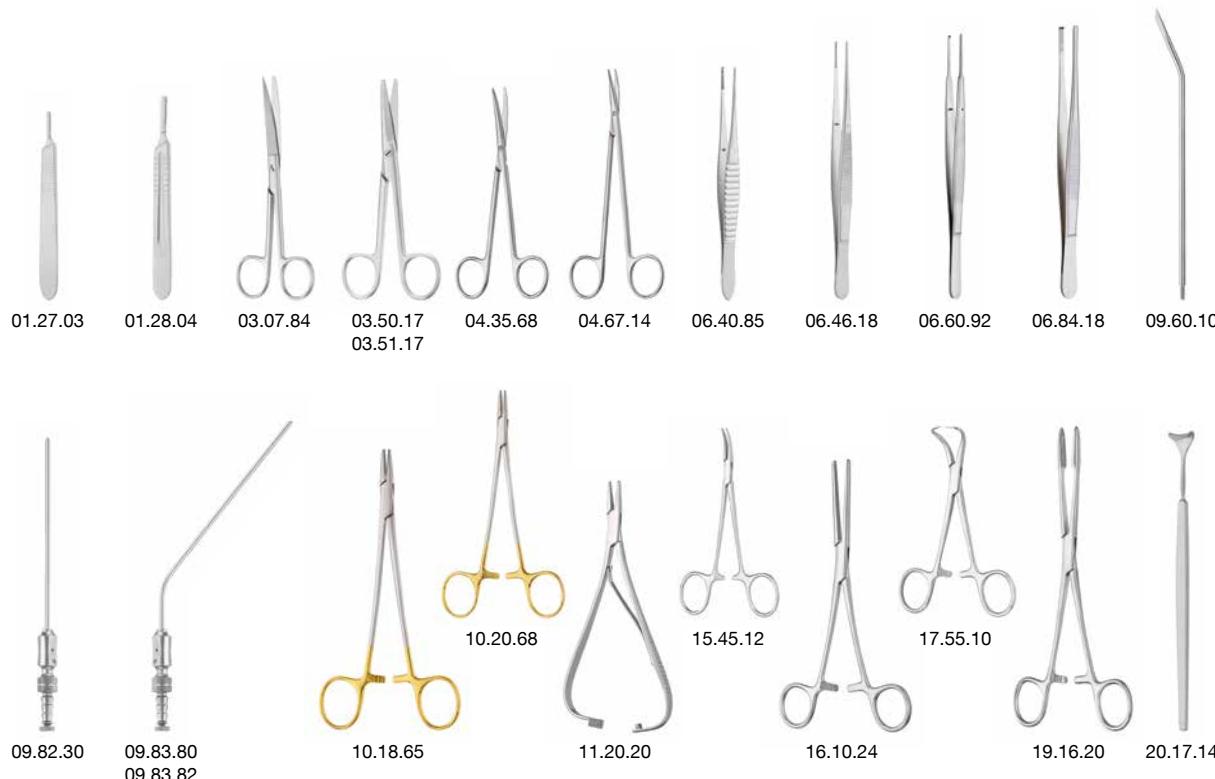
Siebvorschläge
Set Suggestions
Proposiciones de juegos
Propositions pour boîtes
Proposte di set

C01	Siebvorschlag für die Schädeleröffnung Set Suggestion for craniotomy Proposición de juego para la apertura del cráneo Proposition à boîte pour l'ouverture du crâne Proposta di set per l'apertura del cranio	279
C02	Siebvorschlag für Eingriffe an der hinteren Schädelgrube Set suggestion for procedures of the posterior cranial fossa Proposición de juego para los procedimientos en la fosa posterior del cráneo Proposition pour boîte pour les procédures sur fosse postérieure du crâne Proposta di set per le procedure sulla fossa cranicaposteriore	281
C03	Siebvorschlag für Eingriffe am Schädel Set suggestion for procedures of the skull Proposición de juego para los procedimientos en el cráneo Proposition à boîte pour les procédures sur le crâne Proposta di set per le procedure sul cranio	282
C04	Siebvorschlag für die kraniale Mikrochirurgie Set suggestion for cranial microsurgery Proposición de juego para microcirugía craneal Proposition à boîte de microchirurgie crânienne Proposta di set per la microchirurgia cranica	285
C05	Siebvorschlag für Hydrocephalus Shunt Set suggestion for hydrocephalus shunt Proposición de juego de Shunt para hidrocefalia Proposition à boîte pour Shunt hydrocéphale Proposta di set per l'idrocefalo Shunt	286
C06	Siebvorschlag für Handinstrumente der peripheren Nerven Set suggestion for hand instruments of the peripheral nerves Proposición de juego para instrumentos de mano de los nervios periféricos Proposition à boîte pour instruments à main des nerfs périphériques Proposta di set per strumenti della mano dei nervi periferici	288
C07	Siebvorschlag für die transsphenoidale Hypophysektomie Set suggestion for transsphenoidal hypophysectomy Proposición de juego para la hipofisectomía transesfenoidal Proposition à boîte pour l'hypophysectomie transsphénoïdale Proposta di set per l'ipofisectomia transfenoidale	290



Siebvorschlag für die Schädeleröffnung
Set Suggestion for Craniotomy
Proposición de juego para la apertura del cráneo
Proposition à boîte pour l'ouverture du crâne
Proposta di set per l'apertura del cranio

C01

**PART 1**

Item number	Description	Quantity
01.27.03	Scalpel handle · no 3 · standard · 12.5 cm	1
01.28.04	Scalpel handle · no 4 · standard · 13.5 cm	2
03.07.84	Surgical scissors · delicate · curved · blunt / sharp · 14.5 cm	1
03.50.17	MAYO Scissors · straight · 17 cm	1
03.51.17	MAYO Scissors · curved · 17 cm	1
04.35.68	METZENBAUM-SLIM "HM" Scissors · curved · 18 cm	1
04.67.14	REYNOLDS (JAMESON) Scissors · curved · 14 cm	1
06.40.85	GILLIES Tissue forceps · 1 x 2 teeth · 15 cm	1
06.46.18	POTTS-SMITH Dressing forceps · serrated · 18 cm	2
06.60.92	GERALD Tissue forceps · straight · 1 x 2 teeth · 18 cm	1
06.84.18	STILLE-BARRAYA Tissue forceps · 18 cm	1
09.60.10	REDON Guide needle · slightly curved · knife tip · threaded end · 10 French	1
09.82.30	FRAZIER Suction cannula · straight · 10 French · 12.5 cm	2
09.83.80	FRAZIER (FERGUSSON) Suction cannula · angled · 10 French · 18 cm	1
09.83.82	FRAZIER (FERGUSSON) Suction cannula · angled · 12 French · 18 cm	1
10.18.65	MAYO-HEGAR "HM" Needle holder · 16 cm	1
10.20.68	CRILE-WOOD "HM" (DEBAKEY "HM") Needle holder · 18 cm	1
11.20.20	MATHIEU Needle holder · 20 cm	1
15.45.12	HALSTED-MOSQUITO Forceps · curved · 12.5 cm	5
16.10.24	ROCHESTER-PEAN Hemostatic forceps · straight · 24 cm	3
17.55.10	BACKHAUS Towel clamp · 10.5 cm	10
19.16.20	GROSS Dressing forceps · straight · 20 cm	3
20.17.14	CUSHING Vein hook · 14 mm · 20 cm	2





C01

Siebvorschlag für die Schädeleröffnung**Set Suggestion for Craniotomy****Proposición de juego para la apertura del cráneo****Proposition à boîte pour l'ouverture du crâne****Proposta di set per l'apertura del cranio****PART 2**

Item number	Description	Quantity
20.65.03	Tracheal retractor · 3 teeth · blunt · 10 mm · 16 cm	1
22.42.04	KOCHER Retractor · 4 teeth · sharp · 18 mm · 22 cm	1
24.22.14	WEITLANER Retractor · 3 x 4 teeth · blunt · 13 cm	1
24.30.14	WEITLANER-BECKMANN Retractor · blunt · 14.5 cm	1
26.54.10	LAMBOTTE Respiratory · 10 mm · 22 cm	1
29.52.42	SCHEDE Sharp curette · figure 2/0 · 17 cm	1
31.09.93	Bone rongeur · slender pattern · angled sideways · 23 cm	1
31.11.13	MARQUARDT Bone rongeur · curved · 20 cm	1
57.34.16	TOENNIS Hook · 17 cm	1
57.36.14	DAVIS Dissector · double-ended · 4 / 5 mm · 25 cm	1
57.64.02	GIGLI Wire saw handles · solid · packing unit 2 pieces	2
57.64.30	GIGLI (OLIVECRONA) Wire saw · packing unit 5 pieces · 30 cm	2
57.64.90	DEMARTEL (BAILEY) Wire saw guide · 33 cm	1
57.85.03A	RANEY Scalp clip · packing unit 200 pieces	1
57.85.07	RANEY Scalp clip forceps · 16 cm	1
→ 57.85.50	MOD. KÖLN Clip · packing unit 10 pieces	1
67.15.35	YANKAUER Septum elevator · 6 mm · 18 cm	1
49.60.17	Medicontainer · silver · 590 x 290 x 170 mm	1
49.97.12	Wire basket · 480 x 255 x 50 mm	3

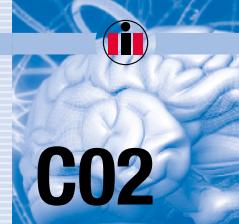


Das komplette Instrumentarium für die Trepanation und Kraniotomie finden Sie im Abschnitt B03
 For the complete range of instruments for trepanation and craniotomy please see section B03
 El instrumental completo para la trepanación y la craneotomía se encuentra en la sección B03
 Vous trouverez l'instrument complet pour la trepanation et la craniotomie dans la section B03
 Troverete lo strumentario completo per la trapanazione e la craniotomia nella sezione B03





Siebvorschlag für Eingriffe an der hinteren Schädelgrube
Set Suggestion for Procedures of the Posterior Cranial Fossa
Proposición de juego para los procedimientos en la fosa posterior del cráneo
Proposition pour boîte pour les procédures sur fosse postérieure du crâne
Proposta di set per le procedure sulla fossa cranica posteriore



07.31.19



09.83.76



20.30.19



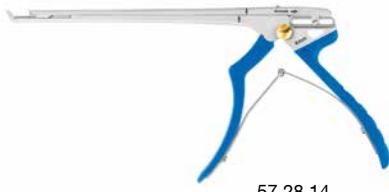
24.28.02



24.30.14



24.34.26

57.28.14
57.28.1658.32.21
58.32.23

58.32.32



58.33.43

59.23.20
59.23.21

49.50.10

49.97.01
49.97.02

Item number	Description	Quantity
07.31.19	GRUENWALD Bayonet forceps · 1 x 2 teeth · 19.5 cm	2
09.83.76	FRAZIER (FERGUSSON) Suction cannula · angled · 6 French · 18 cm	1
20.30.19	GILLIES Hook · small · 19 cm	1
24.28.02	ADSON-ANDERSON Retractor · angled · sharp · 19 cm	2
24.30.14	WEITLANER-BECKMANN Retractor · blunt · 14.5 cm	2
24.34.26	BECKMANN-ADSON Retractor · blunt · 25 mm · 31 cm	2
57.28.14	KERRISON Rongeur · dismantable · angled upwards 40° · 4 mm · 20 cm	1
57.28.16	KERRISON Rongeur · dismantable · angled upwards 40° · 6 mm · 20 cm	1
58.32.21	Micro dissector · 1.0 mm · 23 cm	1
58.32.23	Micro dissector · 1.8 mm · 23 cm	1
58.32.32	Micro tumor knife · Ø 2 mm · 23 cm	1
58.33.43	SAMII Tumor knife · Ø 4.5 mm · 23 cm	1
59.23.20	YASARGIL Micro scissors · bayonet · straight · 23 cm	1
59.23.21	YASARGIL Micro scissors · bayonet · angled · 23 cm	1
49.50.10	Medicontainer · silver · 290 x 290 x 100 mm	1
49.97.01	Wire basket · 240 x 255 x 30 mm	1
49.97.02	Wire basket · 240 x 255 x 50 mm	1



C03

Siebvorschlag für Eingriffe am Schädel
Set Suggestion for Procedures of the Skull
Proposición de juego para los procedimientos en el cráneo
Proposition à boîte pour les procédures sur le crâne
Proposta di set per le procedure sul cranio



PART 1

Item number	Description	Quantity
01.27.03	Scalpel handle · no 3 · standard · 12.5 cm	1
01.28.04	Scalpel handle · no 4 · standard · 13.5 cm	2
03.07.84	Operating scissors · delicate · curved · sharp / blunt · 14.5 cm	1
03.50.17	MAYO Scissors · straight · 17 cm	1
03.51.17	MAYO Scissors · curved · 17 cm	1
04.35.68	METZENBAUM-SLIM "HM" Scissors · curved · 18 cm	1
04.67.14	REYNOLDS (JAMESON) Scissors · curved · 14 cm	1
06.05.20	Tissue forceps · standard · 1 × 2 teeth · 20 cm	1
06.23.15	MICRO-ADSON Tissue forceps · 1 × 2 teeth · 15 cm	1
06.43.15	WAUGH Tissue forceps · cross threads · 1 × 2 teeth · 15 cm	2
06.46.18	POTTS-SMITH Dressing forceps · serrated · 18 cm	2
06.48.18	POTTS-SMITH Tissue forceps · 1 × 2 teeth · 18 cm	1
06.60.92	GERALD Tissue forceps · straight · 1 × 2 teeth · 18 cm	2
06.84.18	STILLE-BARRAYA Tissue forceps · 18 cm	2
09.60.10	REDON Guide needle · slight curved · knife tip · threaded end · 10 French	1
09.82.30	FRAZIER Suction cannula · 10 French · straight · 12.5 cm	2
09.83.78	FRAZIER (FERGUSSON) Suction cannula · 8 French · angled · 18 cm	1
09.83.80	FRAZIER (FERGUSSON) Suction cannula · 10 French · angled · 18 cm	1
09.83.82	FRAZIER (FERGUSSON) Suction cannula · 12 French · angled · 18 cm	2
10.18.65	MAYO-HEGAR "HM" Needle holder · 16 cm	1
10.20.68	CRILE-WOOD "HM" (DEBAKEY "HM") Needle holder · fine · 18 cm	1





Siebvorschlag für Eingriffe am Schädel
Set Suggestion for Procedures of the Skull
Proposición de juego para los procedimientos en el cráneo
Proposition à boîte pour les procédures sur le crâne
Proposta di set per le procedure sul cranio

C03

**PART 2**

Item number	Description	Quantity
11.20.70	MATHIEU "HM" Needle holder · 20 cm	1
15.45.12	HALSTED-MOSQUITO Forceps · curved · 12.5 cm	10
16.10.24	ROCHESTER-PEAN Hemostatic forceps · straight · 24 cm	6
16.11.84	DANDY Hemostatic forceps · curved sideways · 14 cm	15
16.85.14	MIKULICZ-BABY Peritoneum forceps · 14.5 cm	15
17.55.10	BACKHAUS Towel clamp · 10.5 cm	10
19.16.20	GROSS Dressing forceps · straight · 20 cm	2
19.17.26	MAIER Dressing forceps · curved · 26 cm	6
20.65.03	Tracheal retractor · 3 teeth · blunt · 10 mm · 16 cm	1
22.42.04	KOCHER Retractor · 4 teeth · sharp · 18 mm · 22 cm	2
24.22.14	WEITLANER Retractor · 3 × 4 teeth · sharp · 13 cm	2
26.23.04	SEBILEAU Elevator · 4 mm · 16.5 cm	1
26.44.25	LEMPERT Raspatory · 5 mm · 17 cm	1
26.54.10	LAMBOTTE Raspatory · 10 mm · 22 cm	1
26.54.15	LAMBOTTE Raspatory · 15 mm · 22 cm	1
29.52.42	SCHÉDE Sharp curette · figure 2/0 · 17 cm	1
46.28.15	BUNT Instrument holder · 12 cm	4
46.37.50	Needle case · Ø 65 mm	1
46.37.51	Inner case only · for 46.37.50	1
57.29.20	DAVIS Brain spatula · malleable · 16 mm · 19 cm	1
57.31.59	OLIVECRONA Spatula · straight · 7 mm / 9 mm · 18 cm	1
57.34.16	TOENNIS Hook · 17 cm	1





C03

Sieborschlag für Eingriffe am Schädel
Set Suggestion for Procedures of the Skull
Proposición de juego para los procedimientos en el cráneo
Proposition à boîte pour les procédures sur le crâne
Proposta di set per le procedure sul cranio



PART 3

Item number	Description	Quantity
57.34.16	TOENNIS Hook · 17 cm	1
57.36.14	DAVIS Dissector · double-ended · 4 mm / 5 mm · 25 cm	1
57.64.02	GIGLI Wire saw handles · solid · packing unit 2 pieces	2
57.64.30	GIGLI (OLIVECRONA) Wire saw · packing unit 5 pieces · 30 cm	2
57.64.90	DE MARTEL (BAILEY) Wire saw guide · 33 cm	1
57.85.03A	RANEY Scalp clip · packing unit 200 pieces	1
57.85.07	RANEY Scalp clip forceps · 16 cm	1
57.85.10	YASARGIL Galea hook · 31 cm	5
57.85.11	YASARGIL Galea hook · 41 cm	5
→ 57.85.50	MOD. KÖLN Clip · packing unit 10 pieces	1
59.44.05	YASARGIL Grasping forceps · Ø 5 mm · 22 cm	1
59.44.73	YASARGIL Grasping forceps · Ø 3 mm · 22 cm	1
59.44.75	YASARGIL Grasping forceps · Ø 5 mm · 22 cm	1
67.15.35	YANKAUER Septum elevator · 6 mm · 18 cm	1
49.60.17	Medicontainer · silver · 590 x 290 x 170 mm	1
49.97.12	Wire basket · 480 x 255 x 50 mm	3



Das komplette Instrumentarium für die Trepanation und Kraniotomie finden Sie im Abschnitt B03
For the complete range of instruments for trepanation and craniotomy please see section B03
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Vous trouverez l'instrument complet pour la trépanation et la craniotomie dans la section B03
Troverete lo strumentario completo per la trapanazione e la craniotomia nella sezione B03





**Siebvorschlag für die kraniale Mikrochirurgie
Set Suggestion for Cranial Microsurgery
Proposición de juego para microcirugía craneal
Proposition à boîte de microchirurgie crânienne
Proposta di set per la microchirurgia cranica**

C04



Item number	Description	Quantity
09.83.76	FRAZIER (FERGUSSON) Suction cannula · angled · 6 French · 18 cm	1
58.19.27	YASARGIL Micro scissors · angled · buttoned · 18 cm	1
58.30.01	JACOBSON Vessel knife · 18.5 cm	1
58.30.10	YASARGIL Respiratory · angled · 1 mm · 18.5 cm	1
58.30.17	YASARGIL Respiratory · slightly curved · 2.5 mm · 18.5 cm	1
58.30.20	JACOBSON Probe · ball tip · angled · 18.5 cm	1
58.30.32	KRAYENBÜHL Hook · 3.5 mm · 18.5 cm	1
58.30.35	KRAYENBÜHL Hook · 2.0 mm · 18.5 cm	1
58.30.36	KRAYENBÜHL Hook · 2.5 mm · 18.5 cm	1
58.32.04	Hook · sharp · 2.5 mm · 18.5 cm	1
58.32.21	Micro dissector · 1.0 mm · 23 cm	1
58.32.22	Micro dissector · 1.4 mm · 23 cm	1
58.32.23	Micro dissector · 1.8 mm · 23 cm	1
58.33.35	SAMII Tumor knife · 3.0 mm · 23 cm	1
58.33.42	SAMII Tumor knife · Ø 3.0 mm · 23 cm	1
59.20.20	YASARGIL Micro scissors · bayonet · straight · 20 cm	1
59.20.21	YASARGIL Micro scissors · bayonet · angled · 20 cm	1
59.23.10	YASARGIL Micro forceps · bayonet · sharp · 0.6 mm · 23 cm	1
59.23.14	YASARGIL Micro forceps · bayonet · blunt · 0.9 mm · 23 cm	1
49.50.10	Medicontainer · silver · 290 × 290 × 100 mm	1
49.97.02	Wire basket · 240 × 255 × 50 mm	2
49.97.72	Silicon mat · distance between naps 3 mm · 240 × 220 mm	2



C05

Siebvorschlag für Hydrocephalus Shunt
Set Suggestion for Hydrocephalus Shunt
Proposición de juego de Shunt para hidrocefalia
Proposition à boîte pour Shunt hydrocéphalie
Proposta di set per l'idrocefalo Shunt



PART 1

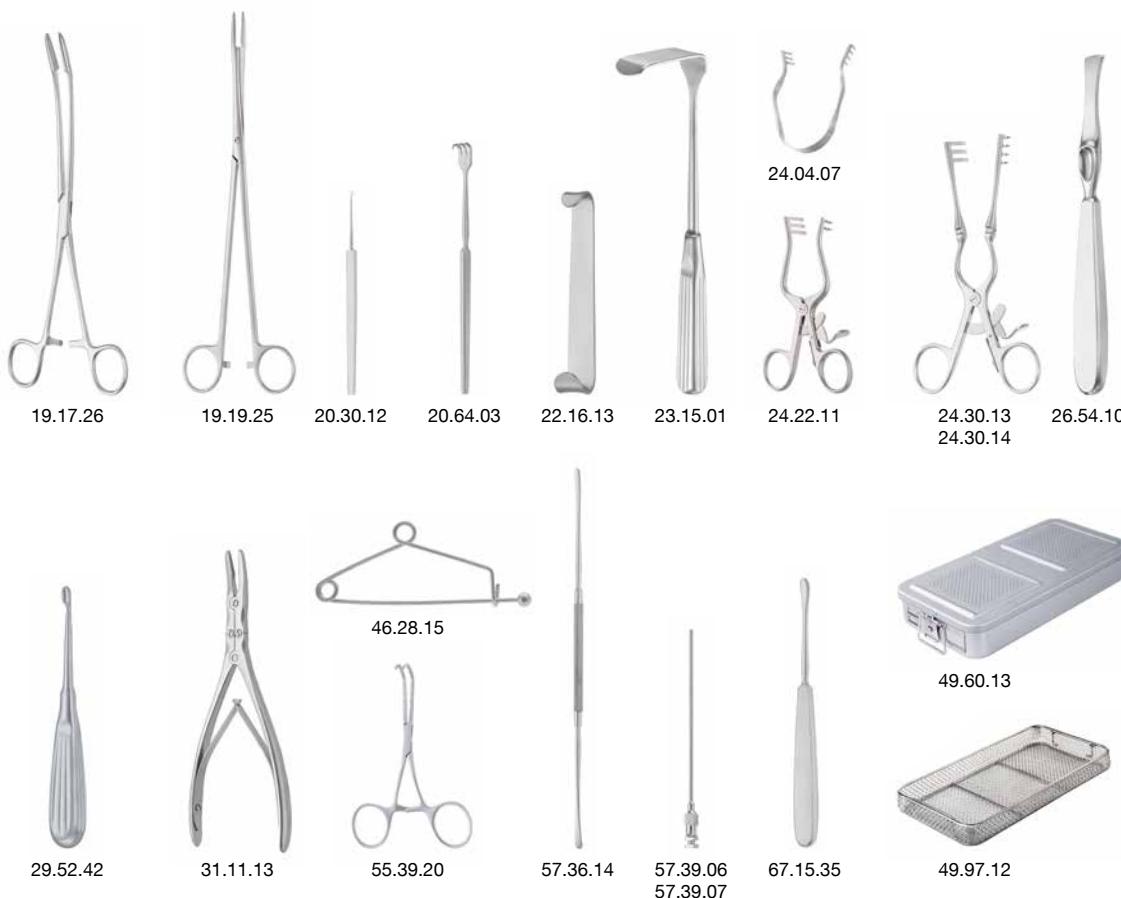
Item number	Description	Quantity
01.28.04	Scalpel handle · no 4 · standard · 13.5 cm	2
03.07.84	Surgical scissors · delicate · curved · sharp / blunt · 14.5 cm	1
04.35.14	METZENBAUM-SLIM Scissors · curved · 14 cm	1
04.35.68	METZENBAUM-SLIM "HM" Scissors · curved · 18 cm	1
04.67.14	REYNOLDS (JAMESON) Scissors · curved · 14 cm	1
06.07.16	Tissue forceps · slim · 1 x 2 teeth · 16 cm	2
06.46.18	POTTS-SMITH Dressing forceps · serrated · 18 cm	2
07.63.32	MICRO 2000 Forceps · straight · blunt · 0.3 mm · 14 cm	2
09.60.10	REDON Guide needle · slight curved · knife tip · threaded end · 10 French	1
09.82.30	FRAZIER Suction cannula · 10 French · straight · 12.5 cm	1
09.83.80	FRAZIER (FERGUSSON) Suction cannula · 10 French · angled · 18 cm	1
09.83.82	FRAZIER (FERGUSSON) Suction cannula · 12 French · angled · 18 cm	1
10.18.65	MAYO-HEGAR "HM" Needle holder · 16 cm	1
10.20.68	CRILE-WOOD "HM" (DEBAKEY HM) Needle holder · 18 cm	1
11.18.70	MATHIEU-KOCHER "HM" Needle holder · 20 cm	1
15.32.09	HARTMANN (BABY MOSQUITO) Hemostatic forceps · straight · 10 cm	2
15.45.12	HALSTED-MOSQUITO Forceps · curved · 12.5 cm	5
16.40.18	HALSTED (ADSON) Hemostatic forceps · straight · 18 cm	2
16.85.18	MIKULICZ Peritoneum forceps · 18 cm	4
17.06.14	MIXTER BABY Forceps · 14 cm	1
17.06.19	MIXTER BABY Forceps · 19 cm	1
19.16.20	GROSS Dressing forceps · straight · 20 cm	2





**Siebvorschlag für Hydrocephalus Shunt
Set Suggestion for Hydrocephalus Shunt
Proposición de juego de Shunt para hidrocefalia
Proposition à boîte pour Shunt hydrocéphale
Proposta di set per l'idrocefalo Shunt**

C05

**PART 2**

Item number	Description	Quantity
19.17.26	MAIER Dressing forceps · curved · 26 cm	4
19.19.25	PELKMANN Dressing forceps · curved · 25 cm	1
20.30.12	FRAZIER Dura and skin hook · 12.5 cm	1
20.64.03	Tracheal retractor · 3 teeth · sharp · 10 mm · 16 cm	2
22.16.13	ROUX-BABY Retractor · double-ended · 15 × 15 mm / 21 × 18 mm · figure 0 · 13 cm	2
23.15.01	SAUERBRUCH Retractor · 18 × 45 mm · 23 cm	1
24.04.07	FINSEN Retractor · sharp · 7 cm	1
24.22.11	WEITLANER Retractor · 2 × 3 teeth · blunt · 10.5 cm	1
24.30.13	WEITLANER-BECKMANN Retractor · sharp · 14.5 cm	1
24.30.14	WEITLANER-BECKMANN Retractor · blunt · 14.5 cm	1
26.54.10	LAMBOTTE Raspatory · 10 mm · 22 cm	1
29.52.42	SCHEDE Sharp curette · figure 2/0 · 17 cm	1
31.11.13	MARQUARDT Bone rongeur · curved · 20 cm	1
46.28.15	BUNT Instrument holder · 12 cm	1
55.39.20	Neonatal vascular clamp · medium · 12 cm	1
57.36.14	DAVIS Dissector · double-ended · 4 / 5 mm · 25 cm	1
57.39.06	CONE Ventricular needle · 1.2 × 90 mm	1
57.39.07	CONE Ventricular needle · 1.4 × 90 mm	1
67.15.35	YANKAUER Septum elevator · 6 mm · 18 cm	1
49.60.13	Medicontainer · silver · 590 × 290 × 135 mm	1
49.97.12	Wire basket · 480 × 255 × 50 mm	2



C06

Sieborschlag für Handinstrumente der peripheren Nerven
Set Suggestion for Hand Instruments of the Peripheral Nerves
Proposición de juego para instrumentos de manos de los nervios periféricos
Proposition à boîte pour instruments à main des nerfs périphériques
Proposta di set per strumenti della mano dei nervi periferici



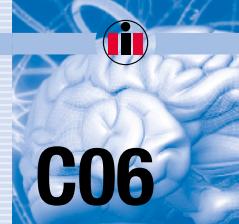
PART 1

Item number	Description	Quantity
01.27.03	Scalpel handle · no 3 · standard · 12.5 cm	2
01.28.04	Scalpel handle · no 4 · standard · 13.5 cm	1
03.06.14	Operating scissors · straight · sharp / blunt · 14.5 cm	1
03.06.84	Operating scissors · delicate · straight · sharp / blunt · 14.5 cm	1
03.07.84	Operating scissors · delicate · curved · sharp / blunt · 14.5 cm	1
04.35.14	METZENBAUM-SLIM Scissors · curved · 14 cm	1
04.35.68	METZENBAUM-SLIM "HM" Scissors · curved · 18 cm	1
04.67.14	REYNOLDS (JAMESON) Scissors · curved · 14 cm	1
06.21.15	ADSON Tissue forceps · smooth · 1 × 2 teeth · 15 cm	2
06.22.15	MICRO-ADSON Dressing forceps · serrated · 15 cm	2
06.23.15	MICRO-ADSON Tissue forceps · 1 × 2 teeth · 15 cm	2
09.15.84	Grooved director · curved · 14 cm	1
09.60.10	REDON Guide needle · slight curved · knife tip · threaded end · 10 French	1
10.08.65	CONVERSE "HM" Needle holder · 15 cm	1
11.20.67	MATHIEU "HM" Needle holder · 17 cm	1
15.45.12	HALSTED-MOSQUITO Forceps · curved · 12.5 cm	6
16.11.16	ROCHESTER-PEAN Hemostatic forceps · curved · 16 cm	2
17.05.14	ADSON-BABY Forceps · 14 cm	1
17.55.10	BACKHAUS Towel clamp · 10.5 cm	6





**Siebvorschlag für Handinstrumente der peripheren Nerven
Set Suggestion for Hand Instruments of the Peripheral Nerves
Proposición de juego para instrumentos de manos de los nervios periféricos
Proposition à boîte pour instruments à main des nerfs périphériques
Proposta di set per strumenti della mano dei nervi periferici**

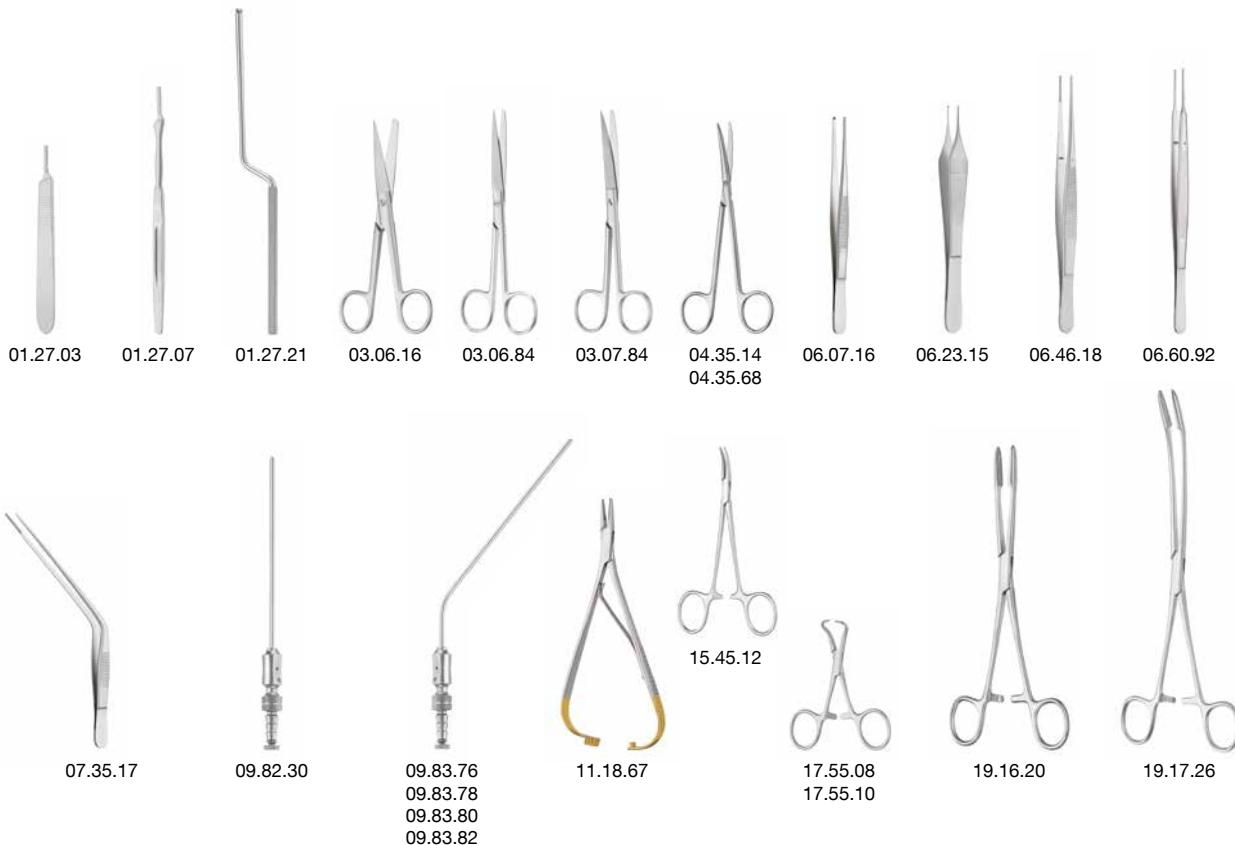
**PART 2**

Item number	Description	Quantity
19.16.20	GROSS Dressing forceps · straight · 20 cm	3
19.17.26	MAIER Dressing forceps · curved · 26 cm	2
19.19.25	PELKMANN Dressing forceps · curved · 25 cm	1
20.17.14	CUSHING Vein hook · 14 mm · 20 cm	2
20.64.04	Tracheal retractor · 4 teeth · sharp · 14 mm · 16 cm	2
20.65.03	Tracheal retractor · 3 teeth · blunt · 10 mm · 16 cm	1
20.65.04	Tracheal retractor · 4 teeth · blunt · 14 mm · 16 cm	1
24.05.57	FINSEN Retractor with catch · sharp · 7 cm	1
24.30.14	WEITLANER-BECKMANN Retractor · blunt · 14.5 cm	1
46.37.50	Needle case · Ø 65 mm	1
46.37.51	Inner case only for 46.37.50	1
49.50.10	Medicontainer · silver · 290 × 290 × 100 mm	1
49.97.01	Wire basket · 240 × 255 × 30 mm	1
49.97.02	Wire basket · 240 × 255 × 50 mm	1
49.97.72	Silicon mat · distance between naps 3 mm · 240 × 220 mm	2



C07

Siebvorschlag für die transsphenoidale Hypophysektomie
Set Suggestion for Transsphenoidal Hypophysectomy
Proposición de juego para la hipofisección transesfenoidal
Proposition à boîte pour l'hypophysectomie transsphénoïdale
Proposta di set per l'ipofisectione transfenoidale



PART 1

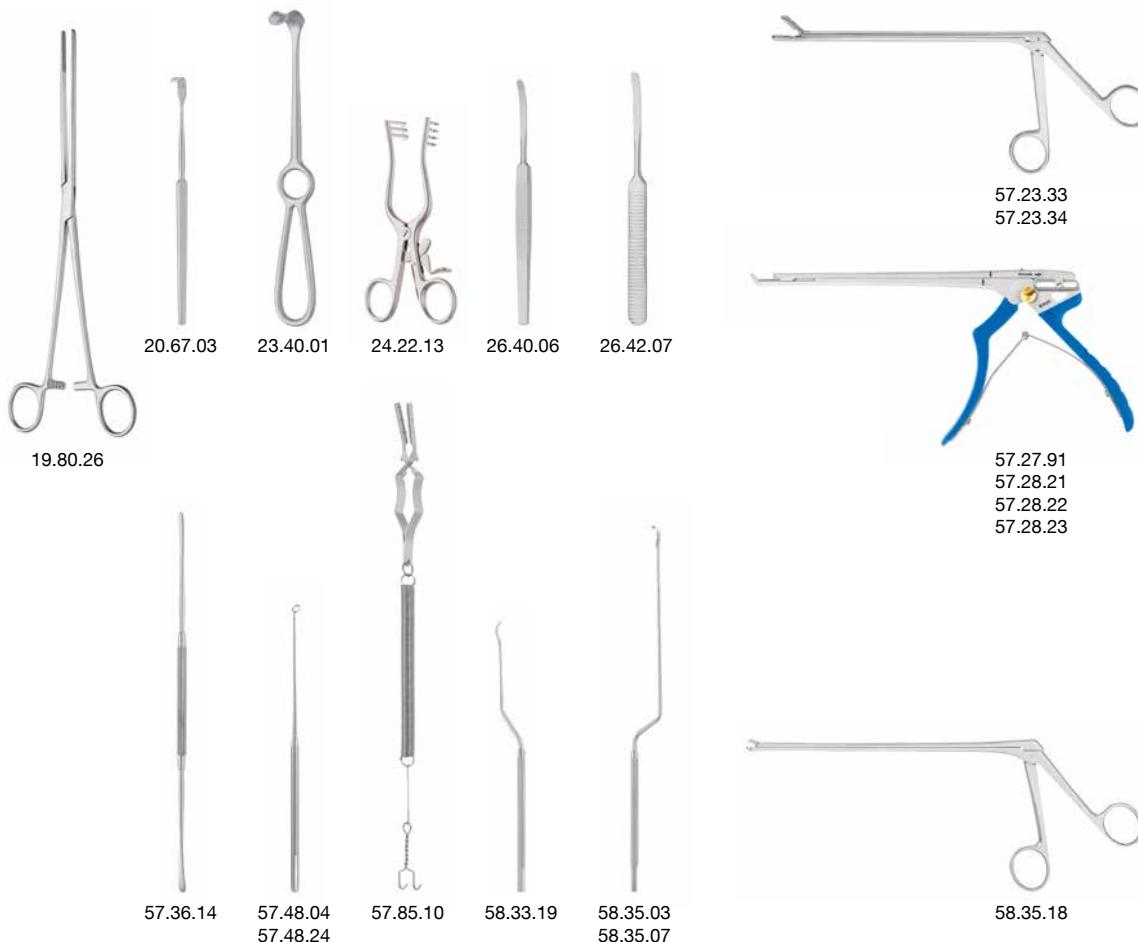
Item number	Description	Quantity
01.27.03	Scalpel handle · no 3 · standard · 12.5 cm	2
01.27.07	Scalpel handle · no 7 · long · 16.5 cm	1
01.27.21	LANDOLT Scalpel handle · bayonet · 21 cm	1
03.06.16	Operating scissors · straight · sharp / blunt · 16.5 cm	1
03.06.84	Operating scissors · delicate · straight · sharp / blunt · 14.5 cm	1
03.07.84	Operating scissors · delicate · curved · sharp / blunt · 14.5 cm	1
04.35.14	METZENBAUM-SLIM Scissors · curved · 14 cm	1
04.35.68	METZENBAUM-SLIM "HM" Scissors · curved · 18 cm	2
06.07.16	Tissue forceps · slim · 1 x 2 teeth · 16 cm	2
06.23.15	MICRO-ADSON Tissue forceps · 1 x 2 teeth · 15 cm	1
06.46.18	POTTS-SMITH Dressing forceps · serrated · 18 cm	2
06.60.92	GERALD Tissue forceps · straight · 1 x 2 teeth · 18 cm	2
07.35.17	TROELTSCH Nasal forceps · serrated · 17 cm	1
09.82.30	FRAZIER Suction cannula · straight · 10 French · 12.5 cm	2
09.83.76	FRAZIER (FERGUSSON) Suction cannula · angled · 6 French · 18 cm	1
09.83.78	FRAZIER (FERGUSSON) Suction cannula · angled · 8 French · 18 cm	1
09.83.80	FRAZIER (FERGUSSON) Suction cannula · angled · 10 French · 18 cm	1
09.83.82	FRAZIER (FERGUSSON) Suction cannula · angled · 12 French · 18 cm	1
11.18.67	MATHIEU-KOCHER "HM" Needle holder · 17 cm	1
15.45.12	HALSTED-MOSQUITO Forceps · curved · 12.5 cm	5
17.55.08	BACKHAUS Towel clamp · 8.5 cm	5
17.55.10	BACKHAUS Towel clamp · 10.5 cm	5
19.16.20	GROSS Dressing forceps · straight · 20 cm	6
19.17.26	MAIER Dressing forceps · curved · 26 cm	2





**Sieborschlag für die transsphenoidale Hypophysektomie
Set Suggestion for Transsphenoidal Hypophysectomy
Proposición de juego para la hipofisección transesfenoidal
Proposition à boîte pour l'hypophysectomie transsphénoïdale
Proposta di set per 'ipofisección transfenoidal'**

C07

**PART 2**

Item number	Description	Quantity
19.80.26	BOZEMANN Dressing forceps · straight · 27 cm	1
20.67.03	Tracheal retractor · 3 teeth · blunt · 8 mm · 16 cm	2
23.40.01	KOCHER Retractor · 12 x 19 mm · 20 cm	2
24.22.13	WEITLANER Retractor · 3 x 4 teeth · sharp · 13 cm	1
26.40.06	KÖNIG Raspatory · 5 mm · 15 cm	1
26.42.07	WILLIGER Raspatory · 7 mm · 16 cm	1
57.23.33	CASPAR Rongeur · straight · 3 x 12 mm · 16 cm	1
57.23.34	CASPAR Rongeur · straight · 4 x 14 mm · 16 cm	1
57.27.91	KERRISON Rongeur · dismantable · angled upwards 40° · 1.5 mm · 18 cm	1
57.28.21	KERRISON Rongeur · dismantable · angled upwards 40° · 1 mm · 18 cm	1
57.28.22	KERRISON Rongeur · dismantable · angled upwards 40° · 2 mm · 18 cm	1
57.28.23	KERRISON Rongeur · dismantable · angled upwards 40° · 3 mm · 18 cm	1
57.36.14	DAVIS Dissector · double-ended · 4 mm / 5 mm · 25 cm	1
57.48.04	RAY Curette · 45° · Ø 4 mm · 19 cm	1
57.48.24	RAY Curette · 45° · offset · Ø 4 mm · 19 cm	1
57.85.10	YASARGIL Galea hook · 31 cm	15
58.33.19	YASARGIL Raspatory · curved down · 2 mm · 18.5 cm	1
58.35.03	HARDY Dissector · bayonet · left · 24 cm	1
58.35.07	HARDY Enucleator · bayonet · left · 24 cm	1
58.35.18	YASARGIL Forceps cup jaws · Ø 2.2 mm · 19 cm	1





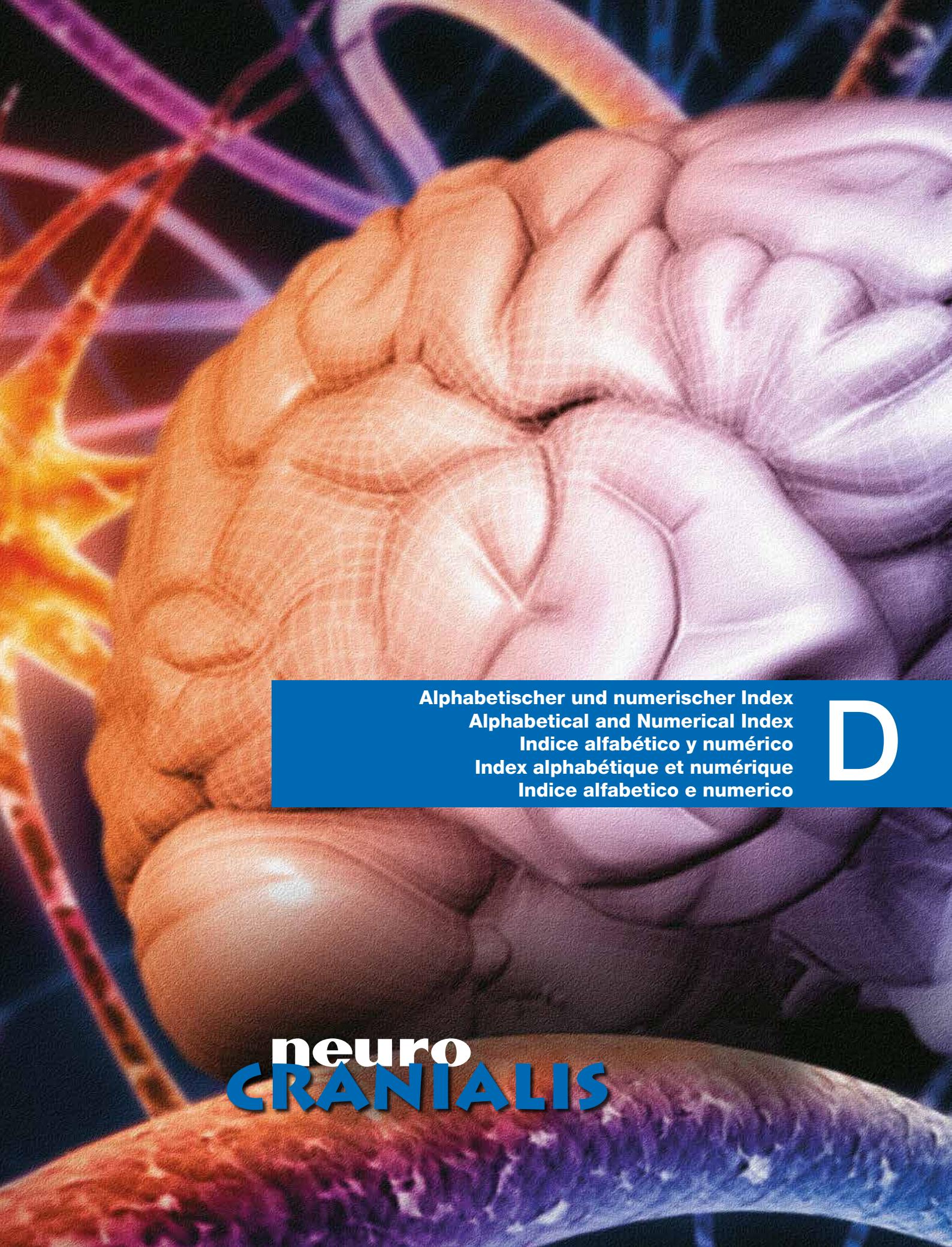
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Sieborschlag für die transsphenoidale Hypophysektomie
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Proposta di set per ipofisectomia transfenoidale



PART 3

Item number	Description	Quantity
58.35.44	HARDY Curette · malleable · Ø 4 mm · 26 cm	1
58.35.46	HARDY Curette · malleable · Ø 6 mm · 26 cm	1
58.35.49	NICOLA Curette · malleable · bayonet · right side cutting · Ø 6.5 mm · 26 cm	1
58.35.50	NICOLA Curette · malleable · bayonet · Ø 6.5 mm · 26 cm	1
58.35.90	CUSHING-LANDOLT Specula · 90 mm	1
58.35.92	LANDOLT Hook · malleable · 26 cm	1
58.35.99	LANDOLT Spreader · 21 cm	1
58.36.20	LANDOLT-REULEN Dissector · 2 mm · 26 cm	1
58.36.25	LANDOLT-REULEN Curette · Ø 2.5 mm · 26 cm	1
58.36.26	FAHLBUSCH Spoon · malleable · Ø 2.5 mm · 26 cm	1
58.36.27	FAHLBUSCH Curette · malleable · Ø 2.5 mm · 26 cm	1
58.45.10	NICOLA Forceps cup jaws · Ø 2 mm · 18 cm	1
58.45.40	NICOLA Alligator type scissors · 18 cm	1
59.24.14	YASARGIL Micro Forceps · bayonet · blunt · 0.9 mm · 24 cm	1
59.44.73	YASARGIL Grasping forceps · Ø 3 mm · 22 cm	1
59.44.75	YASARGIL Grasping forceps · Ø 5 mm · 22 cm	1
62.23.25	Suction and irrigation tube · Ø 2.5 mm / Ø 2 mm	1
66.08.07	KILIAN Nasal speculum · figure 3 · 75 mm · 14 cm	1
67.02.35	COTTE Nasal speculum · figure 1 · 35 mm · 14 cm	1
67.02.55	COTTE Nasal speculum · figure 2 · 55 mm · 14 cm	1
67.02.75	COTTE Nasal speculum · figure 3 · 75 mm · 14 cm	1
49.60.22	Medicontainer · silver · 590 x 290 x 220 mm	1
49.97.12	Wire basket · 480 x 255 x 50 mm	4



Alphabetischer und numerischer Index
Alphabetical and Numerical Index
Indice alfabético y numérico
Index alphabétique et numérique
Indice alfabetico e numerico

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Alphabetischer und numerischer Index
Alphabetical and Numerical Index
Indice alfabético y numérico
Index alphabétique et numérique
Indice alfabetico e numerico

D01	Alphabetischer Index	DEUTSCH	295
D02	Alphabetical index	ENGLISH	301
D03	Indice alfabético	ESPAÑOL	307
D04	Index alphabétique	FRANÇAIS	313
D05	Indice alfabetico	ITALIANO	319
D06	Numerischer Index Numerical index Indice numérico Index numérique Indice numerico		326

**Alphabetischer Index**

Alphabetical Index

Indice alfabetico

Index alphabétique

Indice alfabetico

D01**A**

Approximatoren	97
Anlegepinzetten für Mikro-Gefäßclips	93, 97
Mikro-Gefäßclips	93, 97
Adaptionsinstrument	248
ADSON-ANDERSON Wundspreizer	103
ADSON Bohrerführungszange	147
ADSON Elevatorium	107
ADSON Feine Pinzetten	32
ADSON Hähchen	172
ADSON HM Feine Pinzetten	32
ADSON JACOBSON Mikro-Pinzetten	40
ADSON MICRO Feine Pinzetten	32
ADSON Raspatorien	110
ADSON Wundspreizer	103
Anatomische Pinzetten	32-35
ANDERSON ADSON Wundspreizer	103
Anlege- und Entnahmezangen für Kopfhautklammern	140-141
Anlegepinzetten	92-97
Anlegezangen für Bulldog-Klemmen	87
Anlegezangen für Titan-Clips	91
Anlegezangen für zerebrovaskuläre Clips	221-228
Anschlusskabel bipolar	64
Antihaft-Pinzetten	57-61
Approximatoren	94-98
Arbeitsaufsätze	145, 271
Arterienklemmen	88
Atraumatische Bulldog-Klemmen	85, 87
Atraumatische Gefäßpinzetten	36-37
Atraumatische Pinzetten	36-39
AUSTIN Nahtpinzette	56

B

BABY-CRILE-WOOD HM Nadelhalter	70
BABY-CRILE-WOOD Nadelhalter	69
BABY DANDY Arterienklemme	88
BABY-METZENBAUM Feine Präparierscheren	15
BACON Hohlmeißelzange	120
BAILEY DE MARTEL Einführungsinstrument	148
Bajonett-Saugkanüle	83
Bajonettpinzetten	47-53, 60-63
BARRAQUER Mikro-Nadelhalter	73
BAUMGARTNER HM Nadelhalter	67
BECKMANN WEITLANER Wundspreizer	104
BEYER Hohlmeißelzangen	119, 123
Biegezangen	247
BIEMER Approximatoren	94, 98
BIEMER Anlegepinzetten	94-96
BIEMER Ersatzschlüssel	98
BIEMER Mikro-Gefäßclips	94
BIEMER Mikroschere	23
BIEMER-MÜLLER Approximatoren	95-96

BIER Punktionskanülen	81
-----------------------	----

Bipolare Anschlusskabel	64
-------------------------	----

Bipolare Antihaft-Pinzetten	57-61
-----------------------------	-------

Bipolare Pinzetten	57-63
--------------------	-------

Bohrer	150-151, 272-274
--------	------------------

Bohrerführungszange	147
---------------------	-----

Bohrlochabdeckplatten	235, 243
-----------------------	----------

Bohrlochtiefenlehre	248
---------------------	-----

Bulldog-Klemmen	85-87
-----------------	-------

Bulldog-Klemmen atraumatisch	85, 87
------------------------------	--------

Bulldog-Klemmen Titan	85
-----------------------	----

C

CASPAR Dissektoren	183-184
CASPAR Explorationshähchen	176
CASPAR PAPAVERO Spekula	264
CASPAR Raspatorien	108
CASTROVIEJO HM Mikro-Nadelhalter	72-73
CASTROVIEJO-MICRO Mikro-Nadelhalter	73
CASTROVIEJO Mikro-Nadelhalter	72
Chirurgische Pinzetten	32-35
Chirurgische Scheren	10-13
CLINIC LAHEY Hauthähchen	173
Clips Titan	90
COBB Raspatorien	116
CONE Schädelstanzen	146
Container aus Aluminium	249
CONTOUR Wundspreizer	103
CRILE Hähchen	172
CRILE-WOOD HM (DEBAKEY HM) Nadelhalter	69
CRILE-WOOD Nadelhalter	69
CRILE-WOOD BABY HM Nadelhalter	70
CRILE-WOOD BABY Nadelhalter	69
CRUTCHFIELD Schädelhalter	149
CRUTCHFIELD Vorbohrer	151
CUSHING Flachbohrer	150
CUSHING HM Pinzetten anatomisch/chirurgisch	35
CUSHING-LANDOLT Spekula	263
CUSHING Nervhähchen	167
CUSHING Pinzetten anatomisch/chirurgisch	35
CUSHING Raspatorien	112
CUSHING (TAYLOR) Bajonettpinzetten	51
CUSHING (TAYLOR) HM Bajonettpinzette	51

D

DAHLGREN Schädelstanze	146
DANDY Arterienklemmen	88
DANDY-BABY Arterienklemme	88
DAVIS Dissektor	177
DAVIS Hirnspatel	200
DAVIS Separator	175
DEBAKEY AT Atraumatische Gefäßpinzetten	36-37
DEBAKEY AT Atraumatische Pinzetten	38-39

**Alphabetischer Index****Alphabetical Index****Indice alfábético****Index alphabétique****Indice alfabetico**

DEBAKEY AT Bulldogklemmen	87
DEBAKEY HM Nadelhalter	69
DE MARTEL (BAILEY) Einführungsinstrument	148
DENNIS Mikro-Pinzetten	45
Dermabrasionsfräser	274
D'ERRICO Perforationsbohrer	150
DEVILBISS Schädelstanze	146
Diamant-Kugelfräser	272
Diamant-Walzenfräser	272
Diamantmesser	185-187
DIEFFENBACH Bulldogklemmen	86
DIETHRICH Bulldogklemmen	86
DIETHRICH HEGEMANN Gefäßscheren	19
Dilatatoren Gefäß	189
Dissektoren	177-184, 255, 261
Dissektoren Dura	177
Doppelcontainer	276
Draht- und Mesh-Plattenscheren	30, 246
Draht- und Plattenschneidezangen	246
Drahtsägen	148
Druckluftmotoren	144, 269-270
Dura-Dissektoren	177
Dura-Separatoren	174-175
Durahäkchen	172-173
Duraschere	29
E	
ECHLIN Hohlmeißelzangen	127
EIF Haken	169
Einführungsinstrumente	148
Elevatorien	106-107
Entnahmezangen	87
Entnahmezangen für Kopfhautklammern	140-141
Entnahmezangen für zerebrovaskuläre Clips	229
Enukleatoren	256, 262
Explorationshäkchen	176
F	
Fadenführer	196
Fadengabel	196
FARABEUF Raspatorien	110
Fasspinzetten	53
Fasszange	260
Feine Pinzetten, anatomisch und chirurgisch	32-33
Feine Präparierscheren	14-15
Feine Scheren	10, 14-15
Feine Wundhaken	100
FERGUSSON FRAZIER Sauginstrumente	82
FERRIS-SMITH KERRISON Stanzen	164
FISCH Häkchen	170
FIXIT Kopfhalterungssystem	131-138
Flachbohrer	150
Fräser	150-151, 272-274
Fräser "Flameshape"	273

FRAZIER Dura- und Hauthäkchen	173
FRAZIER (FERGUSSON) Sauginstrumente	82
FRAZIER Sauginstrumente	81-82
FRAZIER Separatoren	174
FREER Elevatorien	107
FREER Raspatorien	108
FRIEDMAN Hohlmeißelzangen	119
Fußpedal	275
G	
Galeahaken	142
GALT Schädeltrephinen	147
Gefäßclips	89-98
Gefäßdilatatoren	189
Gefäßhäkchen	169
Gefäßmesser	192-193
Gefäßpinzetten atraumatisch	36-37
Gefäßscheren	19-20
Gewebekrallen	195
GIGLI Handgriffe	148
GIGLI (OLIVECRONA) Drahtsägen	148
GILLIES Chirurgische Pinzette	34
GILLIES Häkchen	173
GREENBERG PAR Feine Präparierscheren	14
GRUENWALD Bajonettpinzetten	51
H	
Häkchen	170-171, 255
Häkchen Dura	172-173
Häkchen Exploration	176
Häkchen Gefäß	169
Häkchen Haut	172-173
Häkchen Nerv	166-169
Haken	166-176
Haken Galea	142
Haken Sympathektomie	176
Haken Wund	100
HALSEY HM Nadelhalter	67
Haltekammer	64
Haltepinzetten	247
Handbohrapparate	150-152
Handgriffe	148
HARDY Dissektoren	261
HARDY Enukleatoren	262
HARDY Implantationsgabel	262
HARDY Küretten	253
HARTMANN PAPAVERO	
Spreizer für Spekula	264
Hauthäkchen	172-173
HEGAR MAYO HM Nadelhalter	68
HEGEMANN-DIETHRICH Gefäßscheren	19
Hirnspatel	200-201
Hirnspatelhalter	202-206
HM Draht- und Mesh-Plattenscheren	246

HM Draht- und Plattenschneidezangen	246
HM Ligaturscheren	30
HM Pinzetten	32, 35, 52
HOEN Elevatoren	106
HOEN Kopfhautklemme	88
HOEN Separatoren	174
Hohlmeißelzangen	119-127
HOPKINS JOHNS	
Anlege- und Entnahmezange	87
HOPKINS JOHNS Bulldogklemmen	87
HORSLEY Separator	175
HUDSON Handbohrapparat	150
HUNT Fasspinzetten	52
I	
Implantationsgabel	262
Instrumente für Trepanation und Kraniotomie	143-152
Instrumentenkassette	187
J	
JACOBSON-ADSON Mikro-Pinzetten	40
JACOBSON Fadengabel	196
JACOBSON Gefäßmesser	192
JACOBSON Hähchen	170
JACOBSON HM Mikro-Nadelhalter	74
JACOBSON Knopfsonde	189
JACOBSON Mikro-Nadelhalter	74
JACOBSON Mikro-Pinzetten	43
JACOBSON Mikro-Schere	24
JAMESON REYNOLDS Präparierscheren	18
JANSEN ZAUFAL Hohlmeißelzange	123
JOHNS-HOPKINS	
Anlege- und Entnahmezangen	87
JOHNS-HOPKINS Bulldogklemmen	87
JULIAN HM Nadelhalter	70
JULIAN Nadelhalter	70
Juwelierpinzetten	39, 58-59
K	
Kanülen Punktion	81
Kanülen Saug	80, 82-83
Kassette für Neurofixation	248
Kassetten für zerebrovaskuläre Clips	230-232
KERRISON "DieBlauen" Stanzen	153-157
KERRISON (FERRIS-SMITH) Stanzen	164
KERRISON (MICRO) Stanzen	160-163
KERRISON (SCHLESINGER) Stanzen	159
KERRISON (SPURLING) Stanzen	158
KERRISON Zerlegbare Stanzen	155-157
KEY Raspatorien	111
KEY LISTON Knochensplitterzange	127
KILLIAN Septum-Elevatorium	107
KLEINERT-KUTZ Hohlmeißelzangen	119
Klammern Kopfhaut	139-142
Klemmen Arterie	88

Klemmen Bulldog	85-87
Klemmen Kopfhaut	88
Klemmen Schädel	134-137
KLIMA-ROSEGGER Punktionskanüle	81
Knochensplitterzangen	127-128
Knopfsonden	189
KOCHER MATHIEU HM Nadelhalter	71
KOOS Gefäßmesser	193
Kopfhalterungssysteme	131-138
Kopfhautklammern	139-142
Kopfhautklemmen	88
Kopfhautspreizer	103
KRÄMER Raspatorien	109
Kraniotome	145
Kraniotomfräser	145
KRAYENBÜHL Hähchen	169
Kugelfräser	150, 272
Küretten	198, 252-254
KUTZ KLEINERT Hohlmeißelzangen	119
L	
LAHEY CLINIC Hauthähchen	173
LAMBOTTE Raspatorien	111
Lamina-Meißel	257
LANDOLT CUSHING Spekula	263
LANDOLT Enukleatoren	256
LANDOLT Hähchen	255
LANDOLT Kürette	254
LANDOLT Löffel	254
LANDOLT Skalpellgriffe	6
LANDOLT Spreizzange für Spekula	263
LANDOLT-REULEN Dissektor	255
LANDOLT-REULEN Hähchen	255
LANDOLT-REULEN Raspatorium	256
LANDOLT Tumorfasszange	257
LANGENBECK Elevatoren	106
LANGENBECK HM Nadelhalter	72
LANGENBECK Raspatorium	112
Lanzettmesser	195
LEKSELL Hohlmeißelzangen	125-126
LEMPERT Hohlmeißelzangen	120
LEYLA Flexibler Spannarm	204
LEYLA Hirnspatelhalter	202-203
Ligaturscheren	30
LISTON-KEY Knochensplitterzange	127
LISTON LITTAUER Knochensplitterzange	128
LISTON RUSKIN Knochensplitterzangen	128
LITTAUER-LISTON Knochensplitterzange	128
Löffel	254
Löffel scharf	197-198
Löffelzangen	258, 259
LUCAE Nervhähchen	166
LUER Hohlmeißelzangen	120

**Alphabetischer Index****Alphabetical Index****Indice alfábético****Index alphabétique****Indice alfabetico**

LUER STILLE Hohlmeißelzangen	124
M	
MARQUARDT Hohlmeißelzange	123
MASEL Bohrlochabdeckplatten	243
MATHIEU HM Nadelhalter	71
MATHIEU-KOCHER HM Nadelhalter	71
MATHIEU Nadelhalter	71
MAYO Chirurgische Scheren	13
MAYO-HEGAR HM Nadelhalter	68
MCINDOE Anatomische Pinzetten	34
MCINDOE Knochensplitterzangen	128
MCKENZIE Perforationsbohrer	150
Medicontainer	249
MEHDORN Anlegepinzette	92
MEHDORN Mikro-Gefäßclips	92
Meißel für die Lamina	257
Mesh-Plattenscheren	30, 246
Messer Diamant	185-187
Messer Gefäß	192-193
Messer Lanzette	195
Messer Tumor	194
METZENBAUM Präparierscheren	16
METZENBAUM BABY Feine Präparierscheren	15
METZENBAUM-SLIM Präparierscheren	17
MICHELE Schädeltrephinen	147
MICRO 2000 Nadelhalter	76, 78
MICRO 2000 Nahtpinzetten	54-56
MICRO 2000 Pinzetten	40-42, 48, 54-56
MICRO 2000 Scheren	21, 26
MICRO-ADSON Feine Pinzetten	32
MICRO CASTROVIEJO Mikro-Nadelhalter	73
MICRO KERRISON Stanzen	160-163
Mikro-Fadenführer	196
Mikro-Fadengabel	196
Mikro-Gefäßclips	92-98
Mikro-Gefäßdilatatoren	189
Mikro-Gefäßmesser	192-193
Mikro-Gewebekrallen	195
Mikro-Häkchen	174
Mikro-Instrumente	189-198
Mikro-Knopsonden	189
Mikro-Küretten	198
Mikro-Lanzettmesser	195
Mikro-Löffel	197-198
Mikro-Löffelzangen	259
Mikro-Nadelhalter	72-78
Mikro-Nadelhalter Titan	77
Mikro-Nadel	197
Mikro-Pinzetten	30-50
Mikro-Pinzetten Titan	44, 46
Mikro-Raspatorien	191-192
Mikro-Tumormesser	194
Mikro-Scheren	20-28, 260
Mikro-Scheren MICRO 2000	21, 26
MILLESI Mikro-Schere	24
MINI RUSKIN Hohlmeißelzangen	121
MINI-RYDER HM Nadelhalter	70
MISKIMON Wundspreizer	102
MOD. AACHEN Hirnspatel	201
MOD. KÖLN Kopfhautklammer	142
Motor mit INTRA-Kupplung	269
Motorschlauch	275
Motorschmiermittel	276
MÜHLING Raspatorien	108
MÜLLER BIEMER Approximatoren	95-96
N	
Nadel	197
Nadelhalter	65-78
Nadelhalter MICRO 2000	76, 78
Nadelhalter Mikro	72-78
Nadelhalter Titan	77
Nahtpinzetten	54-56
NEIVERT HM Nadelhalter	67
Nerv-Separatoren	174-175
Nervhäkchen	166-169
Neurofräser	273
Neuro-Fixationssystem	233-249
NICOLA Küretten	253-254
NICOLA Löffelzange	258
NICOLA Micro-Schere	260
O	
OLIVECRONA Dissektoren	177
OLIVECRONA GIGLI Drahtsägen	148
OLIVECRONA Hirnspatel	201
OLIVECRONA Raspatorium	110
OLIVECRONA Trigeminusschere	29
P	
PAPAVERO-CASPAR Spekula	264
PAPAVERO-HARTMANN Spreizer für Spekula	264
PAPAVERO Lamina-Meißel	257
PEN Saugkanülen	79-80
PENFIELD Dissektoren	178-179
Perforationsbohrer	150
PETERSEN SMITH Hohlmeißelzangen	122
Pinzetten	31-63
Pinzetten anatomisch/chirurgisch	32-35
Pinzetten antihaft	57-61
Pinzetten atraumatisch	36-39
Pinzetten bajonettförmig	47-53, 60-63
Pinzetten bipolar	57-63
Pinzetten bipolar antihaft	57-61
Pinzetten chirurgisch	32-35
Pinzetten fass	52-53
Pinzetten fein	32-33

Pinzetten Gefäß	36-37
Pinzetten HM	32, 35, 52
Pinzetten Juwelier	39, 58-59
Pinzetten Mikro	39-50
Pinzetten MICRO 2000	40-42, 48, 54-56
Pinzetten Mikro Titan	44, 46
Pinzetten Plattenhalter	247
Pinzetten Schraubenhalter	247
Plattenbiegezangen	247
Plattenhaltepinzetten	247
Plattenscheidezangen	246
Plattenschere	30
POTTS-SMITH Gefäßscheren	19-20
POTTS-SMITH Pinzetten anatomisch/chirurgisch	34
POTTS-YASARGIL Mikro-Schere	24
Präparierscheren	14-18
Punktionskanülen	81
Q	
QUINCKE Punktionskanülen	81
R	
RAIMONDI Kopfhautklemme	88
RALK Handbohrapparat	152
RANEY Kopfhautklammern	140-141
Raspatorien	108-117, 190-192, 256
RAY Küretten	252
Reinigungs-Tray	276
REULEN LANDOLT Dissektor	255
REULEN LANDOLT Hähchen	255
REULEN LANDOLT Raspatorien	256
REYNOLDS (JAMESON) Präparierscheren	18
RHOTON Dissektoren	182
RHOTON Hähchen	171
RHOTON Knopfsonde	189
RHOTON Nadel	197
RHOTON Raspatorium	191
RHOTON Scharfe Löffel	197
RIECHERT Fixievorrichtungen	204
RIECHERT Halter für flache Hirnspatel	204
ROSEGGER KLIMA Punktionskanüle	81
Rosenbohrer	272
RUSKIN Hohlmeißelzangen	121-122
RUSKIN-LISTON Knochensplitterzangen	128
RUSKIN-MINI Hohlmeißelzangen	121
RYDER MINI HM Nadelhalter	70
S	
SACHS Separator	175
SAMII Lanzettenmesser	195
SAMII Tumormesser	194
Saug- und Spülinstrumente	80-83
Saugkanülen	80, 82-83
Schädelhalter	149
Schädelklemmen	134-137
Schädelstanzen	146
Schädeltrephinen	147
Scharfe Löffel	197-198
Scheren	7-30
Scheren chirurgisch	10-13
Scheren Draht	30, 246
Scheren Dura	29
Scheren fein	10, 14-15
Scheren Gefäß	19-20
Scheren Ligatur	30
Scheren Mesh-Platten	30, 246
Scheren MICRO 2000	21, 26
Scheren Mikro	20-28, 260
Scheren Präparier	14-18
Scheren Trigeminus	29
Scheren Tumor	22
SCHLESINGER KERRISON Stanzen	159
SCHMIEDEN (TAYLOR) Duraschere	29
Schraubendrehgriffe	241, 245, 250
Schraubendrehherklingen	241, 245, 250
Schraubenhaltepinzette	247
SEDILLOT Raspatorien	109
SELECT Feine Pinzetten	33
SEMB-STILLE Hohlmeißelzangen	124
SEMKEN Feine Pinzetten	33
Separatoren	174-175
Septum-Elevatorien	107
SHEA Feine Präparierscheren	14
SHERMAN STILLE Handbohrapparat	151
Siebkorp	249
Skalpelle	3-6
Skalpellgriffe	4-6
Skalpellklingen	4-6
SLIM METZENBAUM Präparierscheren	17
SLIM Feine Präparierscheren	15
SMITH FERRIS KERRISON Stanzen	164
SMITH POTTS Gefäßscheren	19-20
SMITH POTTS Pinzetten anatomisch/chirurgisch	34
SMITH-PETERSEN Hohlmeißelzangen	122
SMITHWICK Sympathektomie-Haken	176
SÖRENSEN Schädelklemmen	134-137
Spekula	263-264
Spekula-Spreizzange	263
Spreizer für Spekula	264
Spreizer Wund	101-104
Spiralbohrer	151-152, 241, 245, 250, 274
Spritzschutz für die Dermabrasion	274
Sprühadapter	276
Spülinstrumente	80-83
Spülrohre	271

**Alphabetischer Index****Alphabetical Index****Indice alfábético****Index alphabétique****Indice alfabetico**

SPURLING KERRISON Stanzen	158
Stanzen	153-164
Stanzen Schädel	146
STELLBRINK Hohlmeißelzangen	119
Sterilgut-Container	249
STILLE Handbohrapparat	151
STILLE Hohlmeißelzange	126
STILLE-LUER Hohlmeißelzangen	124
STILLE-SHERMAN Handbohrapparat	151
STILLE SEMB Hohlmeißelzangen	124
STRAIGHT Hauthäkchen	173
STRULLY Trigeminusschere	29
Sympathektomie-Haken	176
T	
TAYLOR CUSHING Bajonettpinzetten	51
TAYLOR CUSHING HM Bajonettpinzette	51
TAYLOR SCHMIEDEN Duraschere	29
Tiefenlehre	248
Titan Mikro-Nadelhalter	77
Titan Mikro-Pinzetten	44, 46
Titan Bulldog-Klemmen	85
Titan-Clips	90
Titan-Platten	234-239, 242-243, 250
Titan-Schrauben	240, 244, 250
TOENNIS Dissektoren	180
TOENNIS Häkchen	174
TOENNIS HM Nadelhalter	72
TOENNIS Tumorfasszangen	53
Tray für Reinigung	276
Trepanfräser	145
Trepanmotor	144
Trephinen	151
Trigeminusscheren	29
Tropfen-Saugkanülen	83
Tumorfasszangen	53, 257
Tumormesser	194
Tumorscheren	22
TUOHY Punktionskanülen	81
U	
UNIVERSAL	
Draht- und Mesh-Plattenschere	30
UNIVERSAL HM	
Draht- und Mesh-Plattenschere	30, 246
V	
VIPAIR	
Druckluftmotorensystem	143-145, 265-276
W	
WAGNER Raspatorien	117
Walzenfräser	273
Wandschlüche	275
WEITLANER Wundspreizer	101-102
WEITLANER-BECKMANN Wundspreizer	104
Werkzeugkassette	276
WILLIGER Raspatorien	108
Winkelmotor	144, 270
Wirbelkörperfräser	273
WOOD CRILE BABY HM Nadelhalter	70
WOOD CRILE BABY Nadelhalter	69
WOOD CRILE HM (DEBAKEY HM) Nadelhalter	69
WOOD CRILE Nadelhalter	69
Wundhaken	100
Wundspreizer	101-104
Y	
YASARGIL	
Anlegezangen für zerebrovaskuläre Clips	221-228
YASARGIL Dissektor	181
YASARGIL	
Entnahmzangen für zerebrovaskuläre Clips	229
YASARGIL Fadenführer	196
YASARGIL Fasspinzetten	53
YASARGIL Fasszange	260
YASARGIL Galeahaken	142
YASARGIL Gefäßmesser	193
YASARGIL Gewebekrallen	195
YASARGIL Löffelzangen	258
YASARGIL Mikro-Nadelhalter	74, 78
YASARGIL Mikro-Pinzetten	47, 49-50
YASARGIL Mikro-Scheren	24, 26-28
YASARGIL POTTS Mikro-Schere	24
YASARGIL Raspatorien	190-192
YASARGIL Saugrohre	82
YASARGIL Zerebrovaskuläre Clips	207-220
YASARGIL Zerebrovaskuläre Clips "Mini"	219-220
YASARGIL Zerebrovaskuläre Clips "Standard"	209-218
Z	
Zange Bohrführung	147
Zange Fass	260
Zange Spreiz	263
Zangen Drahtschneide	246
Zangen Hohlmeißel	119-127
Zangen Knochensplitter	127-128
Zangen Plattenbiege	247
Zangen Plattenschneide	246
Zangen Tumor	53, 257
ZAUFAL-JANSEN Hohlmeißelzange	123
Zementbohrer	273
Zerebrovaskuläre Clips	207-220
Zerebrovaskuläre Clips "Mini"	219-220
Zerebrovaskuläre Clips "Standard"	209-218
Zerlegbare Stanzen	155-157

**A**

Approximators	97
Applying forceps for micro vessel clips	93, 97
Micro vessel clips	93, 97
ADSON-ANDERSON Self-retaining retractor	103
ADSON Delicate forceps	32
ADSON Drill guide forceps	147
ADSON Elevator	107
ADSON HM Delicate forceps	32
ADSON Hooks	172
ADSON JACOBSON Micro forceps	40
ADSON MICRO Delicate forceps	32
ADSON Raspatories	110
ADSON Self-retaining retractors	103
Aluminium container	249
ANDERSON ADSON Self-retaining retractor	103
Angled motor	144, 270
Applying and removing forceps for scalp clips	140-141
Applying forceps	92-97
Applying forceps for Bulldog clamps	87
Applying forceps for cerebrovascular clips	221-228
Applying forceps for titanium clips	91
Applying instrument	248
Approximators	94-98
Aspirating and irrigating instruments	79-83
Atraumatic Bulldog clamps	85, 87
Atraumatic vascular forceps	36-37
AUSTIN Suturing forceps	56

B

BABY DANDY Hemostatic forceps	88
BABY-CRILE-WOOD HM Needle holder	70
BABY-CRILE-WOOD Needle holder	69
BABY-METZENBAUM Delicate dissecting scissors	15
BACON Bone rongeur	120
BAILEY DE MARTEL Guiding instrument	148
BARRAQUER Micro needle holders	73
BAUMGARTNER HM Needle holder	67
Bayonet forceps	47-53, 60-63
Bayonet suction cannula	83
BECKMANN WEITLANER Self-retaining retractors	104
Bending pliers	247
BEYER Bone rongeurs	119, 123
BIEMER Approximators	94, 98
BIEMER Applying forceps	94-96
BIEMER Micro scissors	23
BIEMER Micro vessel clips	94
BIEMER-MÜLLER Approximators	95-96
BIEMER Replacement wrench	98
BIER Puncture cannulas	81

Bipolar connecting cables	64
Bipolar forceps	58-63
Bipolar non-stick forceps	57-61
Bone cutting forceps	127-128
Bone rongeurs	119-127
Bracket	64
Brain spatula retractors	202-206
Brain spatulas	200-201
Bulldog clamps	85-87
Bulldog clamps atraumatic	85, 87
Bulldog clamps titanium	85
Burr hole plates	235, 243
Burrs	150-151, 272-274
Burrs "Flameshape"	273
Burrs for dermabrasion	274
Button probes	189

C	
Cannulas puncture	81
Cannulas suction	80, 82-83
CASPAR Dissectors	183-184
CASPAR Exploration hooks	176
CASPAR PAPAVERO Specula	264
CASPAR Raspatories	108
CASTROVIEJO HM Micro needle holders	72-73
CASTROVIEJO Micro needle holders	72
CASTROVIEJO-MICRO Micro needle holders	73
Cement drills	273
Cerebrovascular clips	207-220
Cerebrovascular clips "Mini"	219-220
Cerebrovascular clips "Standard"	209-218
Chisel for lamina	257
Clamps	85-88
Clamps atraumatic	85, 87
Clamps Bulldog	85-87
Cleaning tray	276
CLINIC LAHEY Skin hook	173
Clips scalp	139-142
COBB Raspatories	116
CONE Skull punch	146
Connecting cables bipolar	64
Container for sterilization	249
CONTOUR Self-retaining retractor	103
Craniotomes	145
Craniotome burrs	145
CRILE Hook	172
CRILE-WOOD HM (DEBAKEY HM) Needle holders	69
CRILE-WOOD Needle holders	69
CRILE-WOOD BABY HM Needle holder	70
CRILE-WOOD BABY Needle holder	69
CRUTCHFIELD Reamer	151



Alphabetischer Index

Alphabetical Index

Indice alfábético

Index alphabétique

Indice alfabetico

CRUTCHFIELD Skull traction tongs	149
Curettes	252-254
Curettes sharp	197-198
CUSHING Flat drills	150
CUSHING Forceps, dressing/tissue	35
CUSHING HM Forceps, dressing/tissue	35
CUSHING-LANDOLT Specula	263
CUSHING Nerve hooks	167
CUSHING Raspatories	112
CUSHING (TAYLOR) Bayonet forceps	51
CUSHING (TAYLOR) HM Bayonet forceps	51
Cutting burrs, barrel style	273
D	
DAHLGREN Skull punch	146
DANDY-BABY Hemostatic forceps	88
DANDY Hemostatic forceps	88
DAVIS Brain spatulas	200
DAVIS Dissector	177
DAVIS Separator	175
DEBAKEY AT Atraumatic forceps	38-39
DEBAKEY AT Atraumatic vascular forceps	36-37
DEBAKEY AT Bulldog clamps	87
DEBAKEY HM Needle holders	69
Delicate forceps, dressing and tissue	32-33
Delicate retractors	100
Delicate scissors	10, 14-15
DE MARTEL (BAILEY) Guiding instrument	148
DENNIS Micro forceps	45
Depth gauge for drill-holes	248
D'ERRICO Perforator	150
DEVILBISS Skull punch	146
Diamon cutting burrs, barrel style	272
Diamond dust burrs	272
Diamond knives	185-187
DIEFFENBACH Bulldog clamps	86
DIETHRICH Bulldog clamps	86
DIETHRICH HEGEMANN Vascular scissors	19
Dilators vessel	189
Dismantable rongeurs	155-157
Dissecting scissors	14-18
Dissectors	177-184, 255, 261
Dissectors dura	177
Double container	276
Drill guide forceps	147
Drills	150-151, 272-274
Drop-shape design suction cannulas	83
Dura dissectors	177
Dura hooks	172-173
Dura scissors	29
Dura separators	174-175
Dust burrs	150

E	
ECHLIN Bone rongeurs	127
EIF Hooks	169
Elevators	106-107
Enucleators	256, 262
Exploration hooks	176
F	
FARABEUF Raspatories	110
FERGUSSON FRAZIER Aspirating instruments	82
FERRIS-SMITH KERRISON Rongeurs	164
FISCH Hook	170
FIXIT Head rest system	131-138
Flat drill	150
Foot switch	275
Forceps	31-63
Forceps atraumatic	36-39
Forceps bayonet	47-53, 60-63
Forceps bipolar	58-63
Forceps bipolar non-stick	57-61
Forceps bone cutting	127-128
Forceps cup jaws	258-259
Forceps delicate	32-33
Forceps dressing/tissue	32-35
Forceps drill guide	147
Forceps grasping	53, 257, 260
Forceps HM	32, 35, 52
Forceps jeweler's	39, 58-59
Forceps micro	39-50
Forceps micro titanium	44, 46
Forceps MICRO 2000	40-42, 48, 54-56
Forceps non-stick	57-61
Forceps plate holding	247
Forceps screw holding	247
Forceps spreading	263
Forceps suturing	54-56
Forceps tumor	53, 257
Forceps vascular	36-37
FRAZIER Aspirating instruments	81-82
FRAZIER Dura and skin hook	173
FRAZIER (FERGUSSON) Aspirating instruments	82
FRAZIER Separator	174
FREER Elevators	107
FREER Raspatory	108
FRIEDMANN Bone rongeur	119
G	
Galea hooks	142
GALT Skull trephines	147
GIGLI (OLIVECRONA) Wire saws	148
GIGLI Handles	148
GILLIES Hooks	173
GILLIES Tissue forceps	34



Grasping forceps	53, 257, 260
GREENBERG PAR	
Delicate dissecting scissors	14
GRUENWALD Bayonet forceps	51
Guiding instruments	148
H	
HALSEY HM Needle holder	67
Hand drills	150-152
Hand pieces	145, 271
Handles	148
HARDY Curettes	253
HARDY Dissectors	261
HARDY Enucleators	262
HARDY Implant fork	262
HARTMANN PAPAVERO	
Spreader for specula	264
Head rest systems	131-138
Head rests	134-137
HEGAR MAYO HM Needle holders	68
HEGEMANN-DIETHRICH Vascular scissors	19
Hemostatic forceps	88
HM Forceps	32, 35, 52
HM Ligature scissors	30
HM Wire and Mesh plate cutting scissors	246
HM Wire and plate cutting pliers	246
HOEN Elevators	106
HOEN Scalp forceps	88
HOEN Separators	174
Hook sympathectomy	176
Hooks	166-176, 255
Hooks dura	172-173
Hooks exploration	176
Hooks galea	142
Hooks nerv	166-169
Hooks skin	172-173
Hooks vessel	169
HOPKINS JOHNS	
Applying and removing forceps	87
HOPKINS JOHNS Bulldog clamps	87
HORSLEY Separator	175
HUDSON Hand drill	150
HUNT Tumor grasping forceps	52
I	
Implant fork	262
Instrument tray	187
Instruments for the	
Trepanation and craniotomy	143-152
Irrigating instruments	80-83
Irrigation tubes	271
J	
JACOBSON-ADSON Micro forceps	40
JACOBSON Button probe	189
JACOBSON HM Micro needle holders	74
JACOBSON Hook	170
JACOBSON Ligature fork	196
JACOBSON Micro forceps	43
JACOBSON Micro needle holders	74
JACOBSON Micro scissors	24
JACOBSON Vessel knife	192
JAMESON REYNOLDS Dissecting scissors	18
JANSEN ZAUFAL Bone rongeur	123
Jeweler's forceps	39, 58-59
JOHNS-HOPKINS	
Applying and removing forceps	87
JOHNS-HOPKINS Bulldog clamp	87
JULIAN HM Needle holders	70
JULIAN Needle holders	70
K	
KERRISON "DieBlauen" Rongeurs	153-157
KERRISON Dismantable rongeurs	155-157
KERRISON (FERRIS-SMITH) Rongeurs	164
KERRISON (MICRO) Rongeurs	160-163
KERRISON (SCHLESINGER) Rongeurs	159
KERRISON (SPURLING) Rongeurs	158
KEY Raspatories	111
KEY LISTON Bone cutting forceps	127
KILLIAN Septum elevator	107
KLEINERT-KUTZ Bone rongeurs	119
KLIMA-ROSEGGER Puncture cannula	81
Knives diamond	185-187
Knives lancet	195
Knives tumor	194
Knives vessel	192-193
KOCHER MATHIEU HM Needle holder	71
KOOS Vessel knives	193
KRÄMER Raspatories	109
KRAYENBÜHL Hooks	169
KUTZ KLEINERT Bone rongeurs	119
L	
LAHEY CLINIC Skin hook	173
LAMBOTTE Raspatories	111
Lamina chisel	257
Lancet knives	195
LANDOLT Curette	254
LANDOLT CUSHING Specula	263
LANDOLT Enucleators	256
LANDOLT Hook	255
LANDOLT Scalpel handles	6
LANDOLT Spoon	254
LANDOLT Spreading forceps for specula	263
LANDOLT-REULEN Dissector	255
LANDOLT-REULEN Hook	255
LANDOLT-REULEN Respiratory	256
LANDOLT Tumor grasping forceps	257



Alphabetischer Index

Alphabetical Index

Indice alfábético

Index alphabétique

Indice alfabetico

LANGENBECK Elevators	106
LANGENBECK HM Needle holders	72
LANGENBECK Raspatory	112
LEKSELL Bone rongeurs	125-126
LEMPERT Bone rongeurs	120
LEYLA Brain spatula retractors	202-203
LEYLA Flexible tension arm	204
Ligature fork	196
Ligature guides	196
Ligature scissors	30
LISTON-KEY Bone cutting forceps	127
LISTON LITTAUER Bone cutting forceps	128
LISTON RUSKIN Bone cutting forceps	128
LITTAUER-LISTON Bone cutting forceps	128
Lubrication of the motor	276
LUCAE Nerve hooks	166
LUER Bone rongeurs	120
LUER STILLE Bone rongeurs	124
M	
MARQUARDT Bone rongeur	123
MASEL Burr hole plates	243
MATHIEU HM Needle holders	71
MATHIEU Needle holders	71
MATHIEU-KOCHER HM Needle holders	71
MAYO HEGAR HM Needle holders	68
MAYO Operating scissors	13
MCINDOE Bone cutting forceps	128
MCINDOE Dressing forceps	34
MCKENZIE Perforator	150
Medicontainer	249
MEHDORN Applying forceps	92
MEHDORN Micro vessel clips	92
Mesh plate cutting scissors	30, 246
METZENBAUM Dissecting scissors	16
METZENBAUM BABY	
Delicate dissecting scissors	15
METZENBAUM-SLIM Dissecting scissors	17
MICHELE Skull trephines	147
MICRO 2000 Forceps	40-42, 48, 54-56
MICRO 2000 Needle holders	76, 78
MICRO 2000 Scissors	21, 26
MICRO 2000 Suturing forceps	54-56
MICRO-ADSON Delicate forceps	32
Micro button probes	189
MICRO CASTROVIEJO Micro needle holders	73
Micro curettes	198
Micro forceps	39-50
Micro forceps titanium	44, 46
Micro forceps cup jaws	259
Micro hooks	174
Micro instruments	189-198
MICRO KERRISON Rongeurs	160-163
Micro lancet knives	195
Micro ligature adjuster	196
Micro ligature guides	196
Micro needle	197
Micro needle holders titanium	77
Micro needle holders	72-78
Micro raspatories	190-192
Micro scissors	20-28, 260
Micro scissors MICRO 2000	21, 26
Micro scoops	197
Micro sharp curettes	197-198
Micro tissue claws	195
Micro tumor knives	194
Micro vessel clips	92-98
Micro vessel dilators	189
Micro vessel knives	192-193
MILLESI Micro scissors	24
MINI RUSKIN Bone rongeurs	121
MINI-RYDER HM Needle holders	70
MISKIMON Self-retaining retractor	102
MOD. AACHEN Brain spatulas	200
MOD. KÖLN Scalp clip	142
Motor tube	275
Motor with INTRA coupling	269
MÜHLING Raspatories	108
MÜLLER BIEMER Approximators	95-96
N	
Needle holders	65-78
Needle holders Micro	72-78
Needle holders MICRO 2000	76, 78
Needle holders titanium	77
Needle	197
NEIVERT HM Needle holder	67
Nerve hooks	166-169
Nerve separators	174-175
Neuro burrs	273
Neuro-fixation system	233-249
NICOLA Curettes	253-254
NICOLA Forceps cup jaws	258
NICOLA Micro scissors	260
Non-stick forceps	57-61
O	
OLIVECRONA Brain spatulas	201
OLIVECRONA Dissectors	177
OLIVECRONA GIGLI Wire saws	148
OLIVECRONA Raspatory	110
OLIVECRONA Trigeminal scissors	29
Operating scissors	10-13
P	
PAPAVERO-CASPAR Specula	264
PAPAVERO Lamina chisel	257
PAPAVERO-HARTMANN Spreader for specula	264



PEN Suction cannulas	79-80
PENFIELD Dissectors	178-179
Perforators	150
PETERSEN SMITH Bone rongeurs	122
Plate cutting pliers	246
Plate bending pliers	247
Plate holding forceps	247
Pneumatic high speed motors	144, 269-270
POTTS-SMITH Forceps, dressing/tissue	34
POTTS-SMITH Vascular scissors	19-20
POTTS-YASARGIL Micro scissors	24
Probes button	189
Punches skull	146
Puncture cannulas	81
Q	
QUINCKE Puncture cannulas	81
R	
RAIMONDI Scalp forceps	88
RALK Hand drill	152
RANEY Scalp clips	140-141
Raspatories	108-117, 190-192, 256
RAY Curettes	252
Removing forceps	87
Removing forceps for cerebrovascular clips	229
Removing forceps for scalp clips	140-141
Retractors delicate	100
Retractors self-retaining	101-104
REULEN LANDOLT Dissector	255
REULEN LANDOLT Hook	255
REULEN LANDOLT Raspatory	256
REYNOLDS (JAMESON) Dissecting scissors	18
RHOTON Button probe	189
RHOTON Dissectors	182
RHOTON Hooks	171
RHOTON Needle	197
RHOTON Raspatories	191
RHOTON Sharp curettes	197
RIECHERT Fixation bases	204
RIECHERT Holder for flat brain spatulas	204
Rongeurs	153-164
Rongeurs bone	119-127
ROSEGGER KLIMA Puncture cannula	81
Rosen burrs	272
RUSKIN Bone rongeurs	121-122
RUSKIN-LISTON Bone cutting forceps	128
RUSKIN-MINI Bone rongeurs	121
RYDER MINI HM Needle holders	70
S	
SACHS Separator	175
SAMII Lancet knives	195

SAMII Tumor knives	194
Scalp clips	139-142
Scalp forceps	88
Scalp retractor	103
Scalpel blades	4-6
Scalpel handles	4-6
Scalpels	3-6
SCHLESINGER KERRISON Rongeurs	159
SCHMIEDEN (TAYLOR) Dura scissors	29
Scissors	7-30
Scissors delicate	10, 14-15
Scissors dissecting	14-18
Scissors dura	29
Scissors ligature	30
Scissors Mesh plate cutting	30, 246
Scissors micro	20-28, 260
Scissors MICRO 2000	21, 26
Scissors operating	10-13
Scissors trigeminal	29
Scissors tumor	22
Scissors wire	30, 246
Scissors vascular	19-20
Screw holding forceps	247
Screwdriver blades	241, 245, 250
Screwdriver handles	241, 245, 250
SEDILLOT Raspatories	109
SELECT Delicate forceps	33
SEMB-STILLE Bone rongeurs	124
SEMKEN Delicate forceps	33
Separators	174-175
Septum elevators	107
Sharp curettes	197-198
SHEA Delicate dissecting scissors	14
SHERMAN STILLE Hand drill	151
Skin hooks	172-173
Skull punches	146
Skull traction tongs	149
Skull trephines	147
SLIM Delicate dissecting scissors	15
SLIM METZENBAUM Dissecting scissors	17
SMITH FERRIS KERRISON Rongeurs	164
SMITH POTTS Forceps, dressing/tissue	34
SMITH POTTS Vascular scissors	19-20
SMITH-PETERSEN Bone rongeurs	122
SMITHWICK Sympathectomy hook	176
SÖRENSEN Head rests	134-137
Spatulas brain	200-201
Specula	263-264
Specula spreader	264
Specula spreading forceps	263
Spherical burrs	150
Splash guard for dermabrasion	274



Alphabetischer Index

Alphabetical Index

Indice alfábético

Index alphabétique

Indice alfabetico

Spray adaptor	276
Spreader for specula	264
Spreading forceps	263
SPURLING KERRISON Rongeurs	158
STELLBRINK Bone rongeurs	119
STILLE Bone rongeur	126
STILLE Hand drill	151
STILLE-LUER Bone rongeurs	124
STILLE SEMB Bone rongeurs	124
STILLE-SHERMAN Hand drill	151
STRAIGHT Skin hook	173
STRULLY Trigeminal scissors	29
Suction and irrigating instruments	80-83
Suction cannulas	80, 82-83
Suction cannulas "drop shape design"	83
Suturing forceps	54-56
Sympathectomy hook	176
T	
TAYLOR CUSHING Bayonet forceps	51
TAYLOR CUSHING HM Bayonet forceps	51
TAYLOR SCHMIEDEN Dura scissors	29
Tissue claws	195
Titanium Bulldog clamps	85
Titanium clips	90
Titanium micro forceps	44, 46
Titanium micro needle holders	77
Titanium plates	234-239, 242-243, 250
Titanium screws	240, 244, 250
TOENNIS Dissectors	180
TOENNIS HM Needle holders	72
TOENNIS Hook	174
TOENNIS Tumor grasping forceps	53
Tools tray	276
Tray for cleaning	276
Tray for neurofixation	248
Trays for cerebrovascular clips	230-232
Trepan motor	144
Trepanation burrs	145
Trehpne	151
Trigeminal scissors	29
Tumor grasping forceps	53, 257
Tumor knives	194
Tumor scissors	22
TUOHY Puncture cannulas	81
Twist drills	151-152, 241, 245, 250, 274
U	
UNIVERSAL HM	
Wire and Mesh plate cutting scissors	30, 246
UNIVERSAL	
Wire and Mesh plate cutting scissors	30
V	
Vascular forceps atraumatic	36-37
Vascular scissors	19-20
Vertebra burrs	273
Vessel clips	89-98
Vessel dilators	189
Vessel hooks	169
Vessel knives	192-193
VIPAIR - System	
Pneumatic high speed	143-145, 265-276
W	
WAGNER Raspatories	117
Wall tubes	275
WEITLANER Self-retaining retractor	101-102
WEITLANER-BECKMANN	
Self-retaining retractor	104
WILLIGER Raspatories	108
Wire and Mesh plate cutting scissors	30, 246
Wire and plate cutting pliers	246
Wire basket	249
Wire saws	148
WOOD CRILE BABY HM Needle holders	70
WOOD CRILE BABY Needle holders	69
WOOD CRILE HM (DEBAKEY HM)	
Needle holders	69
WOOD CRILE Needle holders	69
Y	
YASARGIL Applying forceps for cerebrovascular clips	221-228
YASARGIL Cerebrovascular clips	207-220
YASARGIL Cerebrovascular clips "Mini"	219-220
YASARGIL Cerebrovascular clips "Standard"	209-218
YASARGIL Dissector	181
YASARGIL Forceps cup jaws	258
YASARGIL Galea hooks	142
YASARGIL Grasping forceps	260
YASARGIL Ligature guides	196
YASARGIL Micro forceps	47, 49-50
YASARGIL Micro needle holders	74, 78
YASARGIL Micro scissors	24, 26-28
YASARGIL POTTS Micro scissors	24
YASARGIL Raspatories	191-192
YASARGIL Removing forceps for cerebrovascular clips	229
YASARGIL Suction tubes	82
YASARGIL Tissue claws	195
YASARGIL Tumor grasping forceps	53
YASARGIL Vessel knives	193
Z	
ZAUFAL-JANSEN Bone rongeur	123

**A**

Aproximadores	97
Micro clips vasculares	93, 97
Pinzas para aplicar para micro clips	93, 97
Adaptador de spray	276
ADSON-ANDERSON	
Separador autoestático	103
ADSON Elevador	107
ADSON Ganchitos	172
ADSON HM Pinzas finas	32
ADSON JACOBSON Micro pinzas	40
ADSON Legras	110
ADSON MICRO Pinzas finas	32
ADSON Pinzas finas	32
ADSON Pinza guía de taladros	147
ADSON Separadores autoestáticos	103
Aguja	197
Alicates para cortar alambre y placas	246
ANDERSON ADSON	
Separador autoestático	103
Aproximadores	94-98
AUSTIN Pinza para sutura	56

B	
BABY-CRILE-WOOD HM Porta-aguja	70
BABY-CRILE-WOOD Porta-aguja	69
BABY DANDY Pinza hemostática	88
BABY-METZENBAUM	
Tijeras finas para disección	15
BACON Pinza gubia	120
BAILEY DE MARTEL	
Instrumentos para la introducción	148
Bandeja de limpieza	276
BARRAQUER Micro porta-agujas	73
BAUMGARTNER HM Porta-aguja	67
BECKMANN WEITLANER	
Separadores autoestáticos	104
BEYER Pinzas gubias	119, 123
BIEMER Aproximadores	94, 98
BIEMER Llave de repuesto	98
BIEMER Micro clips vasculares	94
BIEMER Micro tijera	23
BIEMER-MÜLLER Aproximadores	95-96
BIEMER Pinzas para aplicar	94-96
BIER Cánulas para punción	81
Bisturí	3-6
Broca espiral	241, 245, 250
Broca plano	150
Brocas helicoidales	150
Brocas	150-151, 272-274
Brocas espirales	151-152, 274
Brocas para cemento	273
Brocas Rosen	272

C

Cabezales de trabajo	145, 271
Cables de conexión bipolar	64
Caja para instrumentos	187
Caja para terminales	276
Cajas para clips cerebrovascular	230-232
Caja para la neurofijación	248
Cánulas de aspiración	80, 82-83
Cánulas de aspiración con dispositivo en forma de "gota"	83
Cánulas de aspiración en forma de bayoneta	83
Cánulas para punción	81
CASPAR Disectores	183-184
CASPAR Ganchitos para exploración	176
CASPAR Legras	108
CASPAR PAPAVERO Espéculos	264
CASTROVIEJO HM Micro porta-agujas	72-73
CASTROVIEJO Micro porta-agujas	72
CASTROVIEJO-MICRO Micro porta-agujas	73
Cestille	249
Cincel para lámina	257
Clamps	85-88
Clamps atraumáticas	85, 87
Clamps Bulldog	85-87
Clamps Bulldog atraumáticas	85, 87
Clamps Bulldog titanio	85
CLINIC LAHEY Ganchito para piel	173
Clips de titanio	
Clips hemostáticos para cuero cabelludo	139-142
Clips vasculares	89-98
Clips cerebrovascular	207-220
Clips cerebrovascular "Mini"	219-220
Clips cerebrovascular "Standard"	209-218
COBB Legras	116
CONE Pinza saca-bocada para craneotomía	146
Contenedor doble	276
Contenedor para la esterilización	249
CONTOUR Separador autoestático	103
Cráneotomos	145
CRILE Ganchitos	172
CRILE-WOOD BABY HM Porta-aguja	70
CRILE-WOOD BABY Porta-aguja	69
CRILE-WOOD HM (DEBAKEY HM) Porta-agujas	69
CRILE-WOOD Porta-agujas	69
CRUTCHFIELD Perforador	151
CRUTCHFIELD Pinzas craneales de tracción	149
Cucharilla	254
Cucharillas cortantes	197-198
Cuchillos de diamante	185-187
Cuchillos en forma de lancete	195
Cuchillos para tumores	194



Cuchillos para vasos	192-193
Curetas	198, 252-254
CUSHING Broca plano	150
CUSHING Ganchitos para nervios	167
CUSHING HM Pinzas anatómicas/quirúrgicas	35
CUSHING-LANDOLT Espéculos	263
CUSHING Legras	112
CUSHING Pinzas anatómicas/quirúrgicas	35
CUSHING (TAYLOR) HM	
Pinza en forma bajoneta	51
CUSHING (TAYLOR) Pinzas en forma bajoneta	51
D	
DAHLGREN Pinza saca-bocada	
para craneotomía	146
DANDY-BABY Pinza hemostática	88
DANDY Pinzas hemostáticas	88
DAVIS Disector	177
DAVIS Espátulas cerebrales	200
DAVIS Separador	175
DEBAKEY AT Clamps Bulldog	87
DEBAKEY AT Pinzas atraumáticas	38-39
DEBAKEY AT	
Pinzas vasculares atraumáticas	36-37
DEBAKEY HM Porta-agujas	69
DE MARTEL (BAILEY)	
Instrumento para la introducción	148
DENNIS Micro pinzas	45
D'ERRICO Broca helicoidal	150
DEVILBISS	
Pinza saca-bocadas para craneotomía	146
DIEFFENBACH Clamps Bulldog	86
DIETHRICH Clamps Bulldog	86
DIETHRICH HEGEMANN Tijeras vasculares	19
Dilatadores vasculares	189
Disectores	177-184, 255, 261
Disectores para duramadre	177
Dispositivo	64
E	
ECHLIN Pinzas gubias	127
EIF Ganchito	169
Elevadores	106-107
Elevadores para el tabique nasal	107
Enucleadores	256, 262
Espátulas cerebrales	200-201
Espéculos	263-264
F	
FARABEUF Legras	110
FERGUSSON FRAZIER	
Instrumentos de aspiración	82
FERRIS-SMITH KERRISON	
Pinzas saca-bocadas	164
Fijadores craneales	134-137
FISCH Ganchito	170
FIXIT Sistema de fijación craneal	131-138
FRAZIER (FERGUSSON)	
Instrumentos de aspiración	82
FRAZIER Ganchito para duramadre y piel	173
FRAZIER Instrumentos de aspiración	81-82
FRAZIER Separador	174
FREER Elevadores	107
FREER Legra	108
Fresas	150-151, 272-274
Fresas "Flameshape"	273
Fresas cilíndricas	273
Fresas cilíndricas de diamante	272
Fresas de trepano	145
Fresas neuro	273
Fresas para craneotomo	145
Fresas para la dermoabrasión	274
Fresas para vértebras	273
Fresas redondas	150
Fresas redondas de diamante	272
FRIEDMANN Pinza gubia	119
G	
GALT Trépanos craneales	147
Ganchitos	170-171, 255
Ganchitos para duramadre	172-173
Ganchitos para exploración	176
Ganchitos para nervios	166-169
Ganchitos para piel	172-173
Ganchitos para vasos	169
Gancho simpatectomia	176
Ganchos	166-176, 255
Ganchos para galea	142
Ganchos y disectores	165-184, 255
Garras para tejido	195
GIGLI (OLIVECRONA) Sierras de hilo de acero	148
GIGLI Mangos	148
GILLIES Ganchitos	173
GILLIES Pinza quirúrgica	34
GREENBERG PAR Tijeras finas para disección	14
GRUENWALD Pinzas en forma bajoneta	51
Guías-ligaduras	196
H	
HALSEY HM Porta-aguja	67
HARDY Curetas	253
HARDY Disectores	261
HARDY Enucleadores	262
HARDY Horquilla para implantar	262
HARTMANN PAPAVERO	
Separador para espéculos	264
HEGAR MAYO HM Porta-agujas	68
HEGEMANN-DIETHRICH Tijeras vasculares	19
HM Alicates para cortar alambre y placas	246



HM Pinzas	32, 35, 52
HM Tijeras para cortar alambre y placas Mesh	246
HM Tijeras para ligaduras	30
HOEN Elevadores	106
HOEN Pinza para cuero cabelludo	88
HOEN Separadores	174
Hojas de bisturí	4-6
Hojas para atornillador	241, 245, 250
HOPKINS JOHNS Clamps Bulldog	87
HOPKINS JOHNS Pinza para aplicar y quitar	87
Horquilla de hilos	196
Horquilla para implantar	262
HORSLEY Separador	175
HUDSON Perforador de mano	150
HUNT Pinzas para agarrar tumores	52
I	
Instrumento de adaptación	248
Instrumentos de aspiración y de lavado	80-83
Instrumentos de microcirugía	189-198
Instrumentos para la introducción	148
Instrumentos para la trepanación y craneotomía	143-152
Instrumento para medir la profundidad	248
Interruptor a pedal	275
J	
JACOBSON-ADSON Micro pinzas	40
JACOBSON Cuchillo para vaso	192
JACOBSON Sonda abotonada	189
JACOBSON Ganchito	170
JACOBSON HM Micro porta-agujas	74
JACOBSON Horquilla de hilos	196
JACOBSON Micro pinzas	43
JACOBSON Micro porta-agujas	74
JACOBSON Micro tijera	24
JAMESON REYNOLDS Tijeras para disección	18
JANSEN ZAUFAL Pinza gubia	123
JOHNS-HOPKINS Clamps Bulldog	87
JOHNS-HOPKINS Pinza para aplicar y quitar	87
JULIAN HM Porta-agujas	70
JULIAN Porta-agujas	70
K	
KERRISON "DieBlauen" Pinzas saca-bocadas	153-157
KERRISON (FERRIS-SMITH) Pinzas saca-bocadas	164
KERRISON (MICRO) Pinzas saca-bocadas	160-163
KERRISON (SCHLESINGER) Pinzas saca-bocadas	159
KERRISON (SPURLING) Pinzas saca-bocadas	158
KERRISON Pinzas saca-bocadas desmontable	155-157
KEY Legras	111
KEY LISTON Pinza cortante para huesos	127

KILLIAN Elevador para el tabique nasal	107
KLEINERT-KUTZ Pinzas gubias	119
KLIMA-ROSEGGER Cáñulas para punción	81
KOCHER MATHIEU HM Porta-agujas	71
KOOS Cuchillos para vasos	193
KRÄMER Legras	109
KRAYENBÜHL Ganchitos	169
KUTZ KLEINERT Pinzas gubias	119
L	
LAHEY CLINIC Ganchito para piel	173
LAMBOTTE Legras	111
LANDOLT Cucharilla	254
LANDOLT Cureta	254
LANDOLT CUSHING Espéculos	263
LANDOLT Enucleadores	256
LANDOLT Ganchito	255
LANDOLT Mangos de bisturí	6
LANDOLT Pinza dilatatore para espéculos	263
LANDOLT Pinza para agarrar tumores	257
LANDOLT-REULEN Disector	255
LANDOLT-REULEN Ganchito	255
LANDOLT-REULEN Legra	256
LANGENBECK Elevadores	106
LANGENBECK HM Porta-agujas	72
LANGENBECK Legra	112
Legras	108-117, 190-191, 256
LEKSELL Pinzas gubias	125-126
LEMPERT Pinzas gubias	120
LEYLA Brazo tensor flexible	204
LEYLA Separadores para espátulas cerebrales	202-203
LISTON-KEY Pinza cortante para huesos	127
LISTON LITTAUER Pinza cortante para huesos	128
LISTON RUSKIN Pinzas cortante para huesos	128
LITTAUER-LISTON Pinza cortante para huesos	128
Lubrificante para el motor	276
LUCAE Ganchitos para nervios	166
LUER Pinzas gubias	120
LUER STILLE Pinzas gubias	124
M	
Mangos	148
Mangos de bisturí	4-6
Mangos para atornillador	241, 245, 250
MARQUARDT Pinza gubia	123
MASEL Placas para tapar los orificios perforados	243
MATHIEU HM Porta-agujas	71
MATHIEU-KOCHER HM Porta-agujas	71
MATHIEU Porta-agujas	71



Alphabetischer Index

Alphabetical Index

Indice alfabético

Index alphabétique

Indice alfabético

MAYO-HEGAR HM Porta-agujas	68
MAYO Tijeras quirúrgicas	13
MCINDOE Pinzas cortantes para huesos	128
MCINDOE Pinza anatómica	34
MCKENZIE Broca helicoidal	150
MEHDORN Micro clips vasculares	92
MEHDORN Pinza para aplicar	92
METZENBAUM Tijeras para disección	16
METZENBAUM BABY	
Tijeras finas para disección	15
METZENBAUM-SLIM	
Tijeras para disección	17
MICHELE Trépanos craneales	147
MICRO 2000 Pinzas para sutura	54-56
MICRO 2000 Porta-agujas	76, 78
MICRO 2000 Tijeras	21, 26
MICRO 2000 Pinzas	40-42, 48, 54-56
MICRO-ADSON Pinzas finas	32
Micro aguja	197
MICRO CASTROVIEJO Micro porta-agujas	73
Micro clips vasculares	92-98
Micro cucharillas	197-198
Micro cuchillos en forma de lanceta	195
Micro cuchillos para tumores	194
Micro cuchillos para vasos	192-193
Micro curetas	198
Micro dilatadores vasculares	189
Micro garras para tejido	195
Micro guías-ligaduras	196
Micro horquilla de hilos	196
Micro instrumentos	189-198
Micro pinzas titanio	44, 46
Micro sondas abotonados	189
Micro ganchitos	174
MICRO KERRISON Pinzas saca-bocadas	160-163
Micro legras	191-192
Micro pinzas	39-50
Micro pinzas con boca de cucharilla	259
Micro porta-agujas	72-78
Micro porta-agujas titanio	77
Micro tijeras	20-28, 260
Micro tijeras MICRO 2000	21, 26
MILLESI Micro tijeras	24
MINI RUSKIN Pinzas gubias	121
MINI-RYDER HM Porta-agujas	70
MISKIMON Separador autoestático	102
MOD. AACHEN Espátulas cerebrales	201
MOD. KÖLN	
Clip hemostático para cuero cabelludo	142
Motor angulado	144, 270
Motor con acoplamiento INTRA	269
Motor de trépano	144

Motores neumáticos	144, 269-270
MÜHLING Legras	108
MÜLLER BIEMER Aproximadores	95-96
N	
NEIVERT HM Porta-aguja	67
NICOLA Curetas	253-254
NICOLA Micro tijera	260
NICOLA Pinza con boca de cucharilla	258
O	
OLIVECRONA Disectores	177
OLIVECRONA Espátulas cerebrales	201
OLIVECRONA GIGLI Sierras de hilo de acero	148
OLIVECRONA Legra	110
OLIVECRONA Tijera para trigémino	29
P	
PAPAVERO-CASPAR Espéculos	264
PAPAVERO Cincel para lámina	257
PAPAVERO-HARTMANN	
Separador para espéculos	264
PEN Cánulas de aspiración	79-80
PENFIELD Disectores	178-179
Perforadores de mano	150-152
PETERSEN SMITH Pinzas gubias	122
Pinza dilatador	263
Pinza para aplicar	92-97
Pinza saca-bocada desmontable	153-157
Pinzas	31-63
Pinzas anatómicas/quirúrgicas	32-35
Pinzas atraumáticas	36-39
Pinzas bipolares	58-63
Pinzas bipolares no adherentes	57-61
Pinzas con boca de cucharilla	258-259
Pinzas cortantes para huesos	127-128
Pinzas craneales de tracción	149
Pinzas de agarre para placas	247
Pinzas de agarre para tornillos	247
Pinzas en forma de bajoneta	47-53, 60-63
Pinzas finas, anatómicas y quirúrgicas	32-33
Pinzas gubias	119-127
Pinzas guía de taladros	147
Pinzas hemostáticas	88
Pinzas HM	32, 35, 52
Pinzas micro	39-50
Pinzas MICRO 2000	40-42, 48, 54-56
Pinzas micro titanio	44, 46
Pinzas no adherentes	57-61
Pinzas para agarrar	53, 260, 257
Pinzas para agarrar tumores	53, 261, 257
Pinzas para aplicar	92-97
Pinzas para aplicar clamps Bulldog	87
Pinzas para aplicar clips cerebrovascular	221-228



Pinzas para aplicar para clips de titanio	91
Pinzas para aplicar y quitar	140-141
Pinzas para cuero cabelludo	88
Pinzas para doblar placas	247
Pinzas para joyero/relojero	39, 58-59
Pinzas para quitar	87
Pinzas para quitar clips vasculares cerebrales	229
Pinzas para sutura	54-56
Pinzas saca-bocadas	153-164
Pinzas saca-bocadas desmontable	155-157
Pinzas saca-bocadas para craneotomía	146
Pinzas vasculares atraumáticas	36-37
Placas de titanio	234-239, 242-243, 250
Placas para tapar los orificios perforados	235, 243
Porta-agujas	65-78
Porta-agujas micro	72-78
Porta-agujas MICRO 2000	76, 78
Porta-agujas titanio	77
POTTS-SMITH Pinzas anatómicas/quirúrgicas	34
POTTS-SMITH Tijeras vasculares	19-20
POTTS-YASARGIL Micro tijera	24
Protección contra riego para la dermabrasión	274
Q	
QUINCKE Cánulas para punción	81
R	
RAIMONDI Pinza para cuero cabelludo	88
RALK Perforador de mano	152
RANEY	
Clips hemostáticos para cuero cabelludo	140-141
RAY Curetas	252
REULEN LANDOLT Disector	255
REULEN LANDOLT Ganchito	255
REULEN LANDOLT Legra	256
REYNOLDS (JAMESON) Tijeras para disección	18
RHOTON Aguja	197
RHOTON Cucharillas cortantes	197
RHOTON Disectores	182
RHOTON Sonda abotonada	189
RHOTON Ganchitos	171
RHOTON Legras	191
RIECHERT Fijadores	204
RIECHERT	
Soporte para espátulas cerebrales planas	204
ROSEGGER KLIMA Cánulas para punción	81
RUSKIN Pinzas gubias	121-122
RUSKIN-LISTON	
Pinzas cortantes para huesos	128
RUSKIN-MINI Pinzas gubias	121
RYDER MINI HM Porta-agujas	70
S	
SACHS Separador	175
SAMII Cuchillos en forma de lanceta	195
SAMII Cuchillos para tumores	194
SCHLESINGER KERRISON	
Pinzas saca-bocadas	159
SCHMIEDEN (TAYLOR)	
Tijeras para duramadre	29
SEDILLOT Legras	109
SELECT Pinzas finas	33
SEMB-STILLE Pinzas gubias	124
SEMKEN Pinzas finas	33
Separador para el cuero cabelludo	103
Separador para espéculos	264
Separadores	99-100, 174-175
Separadores autoestáticos	101-104
Separadores finos	100
Separadores para duramadre	174-175
Separadores para espátulas cerebrales	202-206
Separadores para nervios	174-175
SHEA Tijeras finas para disección	14
SHERMAN STILLE Perforador de mano	151
Sierras de hilo de acero	148
Sistema para neuro-fijación	233-249
Sistemas de fijación craneal	131-138
SLIM METZENBAUM Tijeras para disección	17
SLIM Tijeras finas para disección	15
SMITH FERRIS KERRISON	
Pinzas saca-bocadas	164
SMITH POTTS Pinzas anatómicas/quirúrgicas	34
SMITH POTTS Tijeras vasculares	19-20
SMITH-PETERSEN Pinzas gubias	122
SMITHWICK Ganchito simpatectomia	176
Sondas abotonadas	189
SÖRENSEN Fijadores craneales	134-137
SPURLING KERRISON Pinzas saca-bocadas	158
STELLBRINK Pinzas gubias	119
STILLE Perforador de mano	151
STILLE Pinza gubia	126
STILLE-LUER Pinzas gubias	124
STILLE SEMB Pinzas gubias	124
STILLE-SHERMAN Perforador de mano	151
STRAIGHT Ganchito para piel	173
STRULLY Tijera para trigémino	29
T	
TAYLOR CUSHING HM	
Pinza en forma bajoneta	51
TAYLOR CUSHING Pinzas en forma bajoneta	51
TAYLOR SCHMIEDEN Tijeras para duramadre	29
Tijeras	7-30
Tijeras finas	10, 14-16
Tijeras finas para disección	14-15
Tijeras micro	20-28, 260
Tijeras MICRO 2000	21, 26
Tijeras para cortar alambre y placas Mesh	30, 246



Alphabetischer Index
Alphabetical Index
Indice alfabético
Index alphabétique
Indice alfabético

Tijeras para disección	14-18	YASARGIL Legras	191-192
Tijeras para duramadre	29	YASARGIL Micro pinzas	47, 49-50
Tijeras para ligaduras	30	YASARGIL Micro porta-agujas	74, 78
Tijeras para trigémino	29	YASARGIL Micro tijeras	24, 26-28
Tijeras para tumores	22	YASARGIL Pinzas con boca de cucharilla	258
Tijeras quirúrgicas	10-13	YASARGIL Pinzas para agarrar	260
Tijeras vasculares	19-20	YASARGIL Pinzas para agarrar tumores	53
Titanio clamps Bulldog	85	YASARGIL	
Titanio Clips	90	Pinzas para aplicar clips cerebrovascular	221-228
Titanio micro pinzas	44, 46	YASARGIL	
Titanio micro porta-agujas	77	Pinzas para quitar clips cerebrovascular	229
TOENNIS Disectores	180	YASARGIL POTTS Micro tijera	24
TOENNIS Gancho	174	YASARGIL Tubos aspirador	82
TOENNIS HM Porta-agujas	72	Z	
TOENNIS Pinzas para agarrar tumores	53	ZAUFAL-JANSEN Pinza gubia	123
Tornillos de titanio	240, 244, 250		
Trépano	151		
Trépanos craneales	147		
Tubos de irrigación	271		
Tubos de motor	275		
Tubos murales	275		
TUOHY Cánulas para punción	81		
U			
UNIVERSAL HM			
Tijera para cortar alambre y placas Mesh	30, 246		
UNIVERSAL			
Tijera para cortar alambre y placas Mesh	30		
V			
VIPAIR - Sistema de motor neumático	143-145, 265-276		
W			
WAGNER Legras	117		
WEITLANER Separadores autoestáticos	101-102		
WEITLANER-BECKMANN Separadores autoestáticos	104		
WILLIGER Legras	108		
WOOD CRILE BABY HM Porta-aguja	70		
WOOD CRILE BABY Porta-aguja	69		
WOOD CRILE HM (DEBAKEY HM) Porta-agujas	69		
WOOD CRILE Porta-agujas	69		
Y			
YASARGIL Clips cerebrovascular	207-220		
YASARGIL Clips cerebrovascular "Mini"	219-220		
YASARGIL Clips cerebrovascular "Standard"	209-218		
YASARGIL Cuchillos para vasos	193		
YASARGIL Disector	181		
YASARGIL Ganchos para galea	142		
YASARGIL Garras para tejido	195		
YASARGIL Guías-ligaduras	196		

**A**

Approximateurs	97
Micro clips vasculaires	93, 97
Pinces à appliquer pour micro clips	93, 97
Adaptateur du spray	276
ADSON-ANDERSON Ecarteur autostatique	103
ADSON Crochets	172
ADSON Ecarteurs autostatiques	103
ADSON Elévateur	107
ADSON HM Pinces délicates	32
ADSON JACOBSON Micro pinces	40
ADSON MICRO Pinces délicates	32
ADSON Pinces délicates	32
ADSON Pinces guide-forêt	147
ADSON Rugines	110
Aiguille	197
ANDERSON ADSON Ecarteur autostatique	103
Approximateurs	94-98
AUSTIN Pince à sutures	56

B

BABY-CRILE-WOOD HM Porte-aiguille	70
BABY-CRILE-WOOD Porte-aiguille	69
BABY DANDY Pince hémostatique	88
BABY-METZENBAUM	
Ciseaux délicats pour dissection	15
BACON Pince-gouge	120
BAILEY DE MARTEL Instrument à introduire	148
BARRAQUER Micro porte-aiguilles	73
BAUMGARTNER HM Porte-aiguille	67
BECKMANN WEITLANER	
Ecarteurs autostatiques	104
BEYER Pinces-gouges	119, 123
BIEMER Approximateurs	94, 98
BIEMER Clé de rechange	98
BIEMER Micro ciseaux	23
BIEMER Micro clips vasculaires	94
BIEMER-MÜLLER Approximateurs	95-96
BIEMER Pinces à appliquer	94-96
BIER Canules à ponction	81
Bistouris	3-6

C

Câbles connecteurs bipolaires	64
Canules à aspiration	80, 82-83
Canules à aspiration avec dispositif en forme de "goutte"	83
Canules à aspiration en forme baïonnette	83
Canules à ponctions	81
CASPAR Crochets pour exploration	176
CASPAR Dissecteurs	183-184
CASPAR PAPAVERO Spéculums	264
CASPAR Rugines	108
Cassette pour instruments	187

Cassette pour outils	276
Cassettes pour clips vasculaires cérébraux	230-232
Cassettes pour la neurofixation	248
CASTROVIEJO HM Micro-porte-aiguilles	72-73
CASTROVIEJO Micro porte-aiguilles	72
CASTROVIEJO-MICRO Micro porte-aiguilles	73
Ciseaux	7-30
Ciseaux à ligatures	30
Ciseaux burins pour les lames	257
Ciseaux chirurgicaux	10-13
Ciseaux coupe-fil et coupe-plaques Mesh	30, 246
Ciseaux délicats	10, 14-15
Ciseaux délicats pour dissection	14-15
Ciseaux pour dissection	14-18
Ciseaux micro	20-28, 260
Ciseaux MICRO 2000	21, 26
Ciseaux pour dure-mère	29
Ciseaux pour trijumeau	29
Ciseaux pour tumeur	22
Ciseaux vasculaires	19-20
Clamps	85-88
Clamps atraumatiques	85, 87
Clamps Bulldog	85-87
Clamps Bulldog atraumatiques	85, 87
Clamps Bulldog en titane	85
CLINIC LAHEY Crochet pour peau	173
Clips en titane	90
Clips hémostatiques pour cuir chevelu	139-142
Clips vasculaires	89-98
Clips vasculaires cérébraux	207-220
Clips vasculaires cérébraux "Mini"	219-220
Clips vasculaires cérébraux "Standard"	209-218
COBB Rugines	116
CONE Pince emporte-pièce crâniennes	146
Container double	276
Container pour la stérilisation	249
CONTOUR Ecarteur autostatiques	103
Couteaux à tumeurs	194
Couteaux de diamant	185-187
Couteaux lancéolaires	195
Couteaux pour vaisseaux	192-193
Craniotomes	145
CRILE Crochets	172
CRILE-WOOD BABY HM Porte-aiguille	70
CRILE-WOOD BABY Porte-aiguille	69
CRILE-WOOD HM (DEBAKEY HM) Porte-aiguilles	69
CRILE-WOOD Porte-aiguilles	69
Crochet sympathetectome	176
Crochets	166-176, 255
Crochets à nerfs	166-169



Crochets à vaisseaux	169	Ecarteurs autostatiques	101-104
Crochets de galea	142	Ecarteurs fins	100
Crochets et dissecteurs	165-184, 255	Ecarteurs pour des spatules cérébrales	202-206
Crochets pour dure-mère	172-173	Ecarteurs pour opérations cérébelleuses	103
Crochets pour exploration	176	ECHLIN Pinces-gouges	127
Crochets pour peau	172-173	EIF Crochet	169
CRUTCHFIELD Alésoir	151	Elévateur pour la cloison nasale	107
CRUTCHFIELD Pinces de traction crâne	149	Elévateurs	106-107
Cuillères	254	Enucléateurs	256, 262
Curettes	198, 252-254	F	
Curettes tranchantes	197-198	FARABEUF Rugines	110
CUSHING Crochets à nerfs	167	FERGUSSON FRAZIER	
CUSHING Fraises en plat	150	Instruments à aspiration	82
CUSHING HM		FERRIS-SMITH KERRISON	
Pinces anatomiques/chirurgicales	35	Pinces emporte-pièce	164
CUSHING-LANDOLT Spéculums	263	FISCH Crochet	170
CUSHING Pinces anatomiques/chirurgicales	35	FIXIT Système de maintien crânien	131-138
CUSHING Rugines	112	Foret hélicoïdal	241, 245, 250
CUSHING (TAYLOR) HM		Fourchette pour implants	262
Pince en forme baïonnette	51	Fraise en plat	150
CUSHING (TAYLOR)		Fraises	150-151, 272-274
Pinces en forme baïonnette	51	Fraises hélicoïdales	150
D		Fraises "Flameshape"	273
DAHLGREN		Fraises à ciment	273
Pince emporte-pièce crâniennes	146	Fraises à dermabrasion	274
DANDY Pinces hémostatiques	88	Fraises à trépan	145
DANDY-BABY Pince hémostatique	88	Fraises cylindriques	273
DAVIS Dissecteur	177	Fraises cylindriques diamantées	272
DAVIS Séparateur	175	Fraises de Rosen	272
DAVIS Spatulas cérébrales	200	Fraises pour craniotome	145
DEBAKEY AT Clamps Bulldog	87	Fraises en spirale	151-152, 274
DEBAKEY AT Pinces atraumatiques	38-39	Fraises forme boule	150
DEBAKEY AT		Fraises forme boule diamantées	272
Pinces vasculaires atraumatiques	36-37	Fraises neuro	273
DEBAKEY HM Porte-aiguilles	69	Fraises vertébrales	273
DE MARTEL (BAILEY)		FRAZIER (FERGUSSON)	
Instrument à introduire	148	Instruments à aspiration	82
DENNIS Micro pinces	45	FRAZIER Crochet pour dure-mère et peau	173
D'ERRICO Fraise hélicoïdal	150	FRAZIER Instruments à aspiration	81-82
DEVILBISS Pinces emporte-pièce crâniennes	146	FRAZIER Séparateur	174
DIEFFENBACH Clamps Bulldog	86	FREER Elévateurs	107
DIETHRICH Clamps Bulldog	86	FREER Rugine	108
DIETHRICH HEGEMANN		FRIEDMANN Pince-gouge	119
Ciseaux vasculaires	19	G	
Dilatateurs vasculaires	189	GALT Tréphines crâniennes	147
Dispositif	64	GIGLI (OLIVECRONA) Scies en fil d'acier	148
Dissecteurs	177-184, 255, 261	GIGLI Manches	148
Dissecteurs pour dure-mère	177	GILLIES Crochets	173
E		GILLIES Pince chirurgicale	34
Ecarteur pour le cuir chevelu	103	GREENBERG PAR	
Ecarteur pour spéculums	264	Ciseaux délicats pour dissection	14
Ecarteurs	99-100	Griffes tissulaires	195



GRUENWALD Pinces en forme baïonnette	51
Guides-fils	196
H	
HALSEY HM Porte-aiguille	67
HARDY Curettes	253
HARDY Dissecteurs	261
HARDY Enucleateurs	262
HARDY Fourchette pour implants	262
HARTMANN PAPAVERO	
Ecarteur pour spéculums	264
HEGAR MAYO HM Porte-aiguilles	68
HEGEMANN-DIETHRICH	
Ciseaux vasculaires	19
HM Ciseaux à ligatures	30
HM Ciseaux coupe-fils et coupe-plaques Mesh	246
HM Pinces	32, 35, 52
HM Pinces coupe-fils et coupe-plaques	246
HOEN Elévateurs	106
HOEN Pince pour le cuir chevelu	88
HOEN Séparateurs	174
HOPKINS JOHNS Clamps Bulldog	87
HOPKINS JOHNS Pince à poser et retirer	87
HORSLEY Séparateur	175
HUDSON Perforateur à main	150
HUNT Pinces pour saisir des tumeurs	52
I	
Instruments à aspiration et à irrigation	80-83
Instruments à introduire	148
Instruments d'adaptation	248
Instruments de microchirurgie	189-198
Instruments pour la trépanation et craniotomie	143-152
Instruments pour mesurer la profondeur	248
Interrupteur à pédale	275
J	
JACOBSON-ADSON Micro pinces	40
JACOBSON Couteau pour vaisseaux	192
JACOBSON Crochet	170
JACOBSON HM Micro porte-aiguilles	74
JACOBSON Micro ciseaux	24
JACOBSON Micro pinces	43
JACOBSON Micro porte-aiguilles	74
JACOBSON Pousse-fil	196
JACOBSON Sonde boutonnée	189
JAMESON REYNOLDS	
Ciseaux pour dissection	18
JANSEN-ZAUFAL Pince-gouge	123
JOHNS-HOPKINS Clamps Bulldog	87
JOHNS-HOPKINS Pince à poser et retirer	87
JULIAN HM Porte-aiguilles	70
JULIAN Porte-aiguilles	70

K	
KERRISON "DieBlauen"	
Pinces emporte-pièce	153-157
KERRISON (FERRIS-SMITH)	
Pinces emporte-pièce	164
KERRISON (MICRO) Pinces emporte-pièce	160-163
KERRISON (SCHLESINGER)	
Pinces emporte-pièce	159
KERRISON (SPURLING)	
Pinces emporte-pièce	158
KERRISON	
Pinces emporte-pièce desmontables	153-157
KEY Rugines	111
KEY LISTON Pince coupante à os	127
KILIAN Elévateur pour la cloison nasale	107
KLEINERT-KUTZ Pinces-gouges	119
KLIMA-ROSEGGER Canule ponction	81
KOCHER MATHIEU HM Porte-aiguilles	71
KOOS Couteaux pour vaisseaux	193
KRÄMER Rugines	109
KRAYENBÜHL Crochets	169
KUTZ KLEINERT Pinces-gouges	119
L	
LAHEY-CLINIC Crochet pour peau	173
LAMBOTTE Rugines	111
Lames de bistouri	4-6
Lames de tournevis	241, 245, 250
LANDOLT Crochet	255
LANDOLT Curettes	254
LANDOLT CUSHING Spéculums	263
LANDOLT Enucleateurs	256
LANDOLT Manches pour bistouri	6
LANDOLT Pince écartante pour spéculums	263
LANDOLT Pince pour préhension de tumeurs	257
LANDOLT-REULEN Crochet	255
LANDOLT-REULEN Dissecteur	255
LANDOLT-REULEN Rugine	256
LANGENBECK Elévateurs	106
LANGENBECK HM Porte-aiguilles	72
LANGENBECK Rugine	112
LEKSELL Pinces-gouges	125-126
LEMPERT Pinces-gouges	120
LEYLA Bras tendeur flexible	204
LEYLA	
Ecarteurs pour des spatules cérébrales	202-203
LISTON-KEY Pince à os	127
LISTON LITTAUER Pince coupante à os	128
LISTON-RUSKIN Pince à os	128
LITTAUER-LISTON Pince à os	128
Lubrifiant pour le moteur	276
LUCAE Crochets à nerfs	166
LUER Pinces-gouges	120



LUER STILLE Pinces-gouges	124
M	
Maintiens crâniens	134-137
Manches	148
Manches de tournevis	241, 245, 250
Manches pour bistouris	4-6
MARQUARDT Pince-gouge	123
MASEL Plaques pour trous de forage	243
MATHIEU HM Porte-aiguilles	71
MATHIEU-KOCHER HM Porte-aiguilles	71
MATHIEU Porte-aiguilles	71
MAYO Ciseaux chirurgicaux	13
MAYO HEGAR HM Porte-aiguilles	68
MCINDOE Pinces coupantes à os	128
MCINDOE Pinces anatomiques	34
MCKENZIE Fraise hélicoïdal	150
MEHDORN Micro clips vasculaires	92
MEHDORN Pince à poser	92
METZENBAUM BABY	
Ciseaux délicats pour dissection	15
METZENBAUM Ciseaux pour dissection	16
METZENBAUM-SLIM	
Ciseaux pour dissection	17
MICHELE Tréphines crâniennes	147
MICRO 2000 Ciseaux	21, 26
MICRO 2000 Pinces	40-42, 48, 54-56
MICRO 2000 Pinces à suture	54-56
MICRO 2000 Porte-aiguilles	76, 78
MICRO ADSON Pinces délicates	32
Micro aiguille	197
MICRO CASTROVIEJO Micro porte-aiguilles	73
Micro ciseaux	20-28, 260
Micro ciseaux MICRO 2000	21, 26
Micro clips vasculaires	92-98
Micro couteaux à tumeurs	194
Micro couteaux lancéolaires	195
Micro couteaux pour vaisseaux	192-193
Micro crochets	174
Micro curettes	197-198
Micro dilatateurs vasculaires	189
Micro griffes tissulaires	195
Micro guides-fils	196
Micro instruments	189-198
MICRO KERRISON Pinces emporte-pièce	160-163
Micro pinces mors cuillère	259
Micro pinces titane	44, 46
Micro pinces	39-50
Micro porte-aiguilles	72-78
Micro porte-aiguilles en titane	77
Micro pousse-fil	196
Micro rugines	191-192
Micro stylets boutonnés	189
MILLESI Micro ciseaux	24
MINI RUSKIN Pinces-gouges	121
MINI-RYDER HM Porte-aiguilles	70
MISKIMON Ecarteur autostatique	102
MOD. AACHEN Spatulas cérébrales	200
MOD. KÖLN	
Clip hémostatique pour cuir chevelu	142
Moteur à trépan	144
Moteur angulaire	144, 270
Moteur avec embrayage INTRA	269
Moteurs pneumatiques	144, 269-270
MÜHLING Rugines	108
MÜLLER BIEMER Approximateurs	95-96
N	
NEIVERT HM Porte-aiguille	67
NICOLA Curettes	253-254
NICOLA Micro ciseaux	260
NICOLA Pince mors cuillère	258
O	
OLIVECRONA Ciseaux pour trijumeau	29
OLIVECRONA Dissecteurs	177
OLIVECRONA GIGLI Scies en fil d	148
OLIVECRONA Rugine	110
OLIVECRONA Spatulas cérébrales	201
P	
Panier	249
PAPAVERO-CASPAR Spéculums	264
PAPAVERO Ciseau burin pour les lames	257
PAPAVERO-HARTMANN	
Ecarteur pour spéculums	264
PEN Canules à aspiration	79-80
PENFIELD Dissecteurs	178-179
Perforateurs à main	150-152
PETERSEN SMITH Pinces-gouges	122
Pièces à main	145, 271
Pince à poser	92-97
Pince écartante	263
Pinces	31-63
Pinces à appliquer	92-97
Pinces à appliquer clips	
vasculaires cérébraux	221-228
Pinces à appliquer et retirer	140-141
Pinces anti-adhésives	57-61
Pinces à poser clamps Bulldog	87
Pinces à poser pour clips en titane	91
Pinces à retirer	87
Pinces à retirer clips vasculaires cérébraux	229
Pinces à saisir	53, 260, 257
Pinces à saisir pour tumeurs	53, 257
Pinces à suture	54-56
Pinces anatomiques/chirurgicales	32-35
Pinces atraumatiques	36-39



Pinces bipolaires	58-63
Pinces bipolaires anti-adhésives	57-61
Pinces coupantes à os	127-128
Pinces coupe-fils et coupe-plaques	246
Pinces délicates, anatomiques et chirurgicales	32-33
Pinces de traction crâne	149
Pinces emporte-pièce	153-164, 258
Pinces emporte-pièce crâniennes	146
Pinces emporte-pièce desmontables	155-157
Pinces en forme baïonnette	47-53, 60-63
Pinces guide-forêt	147
Pinces hémostatiques	88
Pinces HM	32, 35, 52
Pinces micro	39-50
Pinces MICRO 2000	40-42, 48, 54-56
Pinces micro titane	44, 46
Pinces mors cuillère	258-259
Pinces pour joaillier/horloger	39, 58-59
Pinces pour le cuir chevelu	88
Pinces pour plier les plaques	247
Pinces pour saisir	53
Pinces pour tenir les plaques	247
Pinces pour tenir les vis	247
Pinces vasculaires atraumatiques	36-37
Pinces-gouges	119-127
Plaques en titane	234-239, 242-243, 250
Plaques pour trous de forage	235, 243
Porte-aiguilles	65-78
Porte-aiguilles micro	72-78
Porte-aiguilles MICRO 2000	76, 78
Porte-aiguilles titane	77
POTTS-SMITH Ciseaux vasculaires	19-20
POTTS-SMITH	
Pinces anatomiques/chirurgicales	34
POTTS-YASARGIL Micro ciseaux	24
Pousse-fil	196
Protection anti-projections à dermabrasion	274
Q	
QUINCKE Canules à ponction	81
R	
RAIMONDI Pince pour le cuir chevelu	88
RALK Perforateur à main	152
RANEY Clips hémostatiques pour cuir chevelu	140-141
RAY Curettes	252
REULEN LANDOLT Crochet	255
REULEN LANDOLT Dissecteur	255
REULEN LANDOLT Rugine	256
REYNOLDS (JAMESON)	
Ciseaux pour dissection	18
RHOTON Aiguille	197
RHOTON Crochets	175

RHOTON Curettes tranchantes	197
RHOTON Dissecteurs	182
RHOTON Rugines	191
RHOTON Sone boutonnée	189
RIECHERT Bases de fixation	204
RIECHERT Support pour des spatules cérébrales plantes	204
ROSEGGER KLIMA Canule à ponction	81
Rugines	108-117, 190-192, 256
RUSKIN Pinces-gouges	121-122
RUSKIN-LISTON Pinces coupantes à os	128
RUSKIN-MINI Pinces-gouges	121
RYDER MINI HM Porte-aiguilles	70
S	
SACHS Séparateur	175
SAMII Couteaux à tumeurs	194
SAMII Couteaux lancéolaires	195
SCHLESINGER KERRISON Pinces emporte-pièce	159
SCHMIEDEN (TAYLOR) Ciseaux pour dure-mère	29
Scies en fil d'acier	148
SEDILLOT Rugines	109
SELECT Pinces délicates	33
SEMB-STILLE Pinces-gouges	124
SEMKEN Pinces délicates	33
Séparateurs pour dure-mère	174-175
Séparateurs pour nerfs	174-175
SHEA Ciseaux délicates pour dissection	14
SHERMAN STILLE Perforateur à main	151
SLIM Ciseaux délicates pour dissection	15
SLIM METZENBAUM Ciseaux pour dissection	17
SMITH FERRIS KERRISON Pinces emporte-pièce	164
SMITH POTTS Ciseaux vasculaires	19-20
SMITH POTTS	
Pinces anatomiques/chirurgicales	34
SMITH-PETERSEN Pinces-gouges	122
SMITHWICK Crochet sympathectome	176
Sondes boutonnées	189
SÖRENSEN Maintiens crâniens	134-137
Spatulas cérébrales	200-201
Spéculums	263-264
SPURLING KERRISON Pinces emporte-pièce	158
STELLBRINK Pinces-gouges	119
STILLE Perforateur à main	151
STILLE Pince-gouge	126
STILLE-LUER Pinces-gouges	124
STILLE SEMB Pinces-gouges	124
STILLE-SHERMAN Perforateur à main	151



Alphabetischer Index
Alphabetical Index
Indice alfabetico
Index alphabétique
Indice alfabetico

STRAIGHT Crochet pour peau	173
STRULLY Ciseaux pour trijumeau	29
Système de neuro-fixation	233-249
Systèmes de maintien crânien	131-138
T	
TAYLOR CUSHING HM	
Pince en forme baïonnette	51
TAYLOR CUSHING	
Pinces en forme baïonnette	51
TAYLOR SCHMIEDEN	
Ciseaux pour dure-mère	29
Titane micro pinces	44, 46
Titane micro porte-aiguilles	77
TOENNIS Crochet	174
TOENNIS Dissecteurs	180
TOENNIS HM Porte-aiguilles	72
TOENNIS Pinces à saisir pour tumeurs	53
Tray de nettoyage	276
Tréphine	151
Tréphines crâniennes	147
TUOHY Canules à ponction	81
Tuyaux d'irrigation	271
Tuyaux muraux	275
Tuyaux moteur	275
U	
UNIVERSAL Ciseaux	
coupe-fil et coupe-plaques Mesh	30
UNIVERSAL HM Ciseaux	
coupe-fil et coupe-plaques Mesh	30, 246
V	
VIPAIR - Système	
de moteur à air comprimé	143-145, 265-276
Vis en titane	240, 244, 250
W	
WAGNER Rugines	117
WEITLANER Ecarteurs autostatiques	101-102
WEITLANER-BECKMANN	
Ecarteurs autostatiques	104
WILLIGER Rugines	108
WOOD CRILE BABY HM Porte-aiguille	70
WOOD CRILE BABY Porte-aiguille	69
WOOD CRILE HM (DEBAKEY HM)	
Porte-aiguilles	69
WOOD CRILE Porte-aiguilles	69
Y	
YASARGIL Clips vasculaires cérébraux	207-220
YASARGIL Clips	
vasculaires cérébraux "Mini"	219-220
YASARGIL Clips	
vasculaires cérébraux "Standard"	209-218
YASARGIL Couteaux pour vaisseaux	193
YASARGIL Crochets de galea	142
YASARGIL Dissecteurs	181
YASARGIL Griffes tissulaires	195
YASARGIL Guides-fils	196
YASARGIL Micro ciseaux	24, 26-28
YASARGIL Micro pinces	47, 49-50
YASARGIL Micro porte-aiguilles	74, 78
YASARGIL Pinces à appliquer clips	
vasculaires cérébraux	221-228
YASARGIL Pinces à retirer clips	
vasculaires cérébraux	229
YASARGIL Pinces à saisir	260
YASARGIL Pinces mors cuillère	258
YASARGIL Pinces pour saisir des tumeurs	53
YASARGIL POTTS Micro ciseaux	24
YASARGIL Rugines	191-192
YASARGIL Tubes à aspiration	82
Z	
ZAUFAL-JANSEN Pince-gouge	123

**A**

Approssimatori	97
Micro clip vascolari	93, 97
Pinza per applicare per micro clip	93, 97
Adattatore per spray	276
ADSON-ANDERSON Divaricatore autostatico	103
ADSON Divaricatori autostatici	103
ADSON Elevatore	107
ADSON HM Pinze delicate	32
ADSON JACOBSON Micro pinze	40
ADSON MICRO Pinze delicate	32
ADSON Periostotomi	110
ADSON Pinze delicate	32
ADSON Pinze guida-perforatore	147
ADSON Uncini	172
Ago	197
ANDERSON ADSON Divaricatore autostatico	103
Approssimatore	94-98
Artiglie per tessuti	195
AUSTIN Pinza per sutura	56

B

BABY-CRILE-WOOD HM Portaghi	70
BABY-CRILE-WOOD Portaghi	69
BABY DANDY Pinza emostatica	88
BABY-METZENBAUM	
Forbici delicate per dissezione	15
BACON Pinza sgorbia	120
BAILEY DE MARTEL Strumento introduttore	148
BARRAQUER Micro portaghi	73
BAUMGARTNER HM Portaghi	67
BECKMANN WEITLANER	
Divaricatori autostatici	104
BEYER Pinze sgorbie	119, 123
BIEMER Approssimatori	94, 98
BIEMER Chiave di ricambio	98
BIEMER Micro clip vascolari	94
BIEMER Micro forbice	23
BIEMER Pinze per applicare	94-96
BIEMER-MÜLLER Approssimatori	95-96
BIER Cannule per puntura	81
Bisturi	3-6
Bisturi diamantati	185-187

C

Cannule per aspirazione	80, 82-83
Cannula per aspirazione a forma di baionetta	83
Cannule per aspirazione con dispositivo a forma di "goccia"	83
Cannule per puntura	81
CASPAR Dissettori	183-184
CASPAR PAPAVERO Specoli	264
CASPAR Periostotomi	108
CASPAR Uncini per esplorazione	176

Cassetta per punte	276
Cassetta per strumenti	187
Cassetta per il neuro-fissaggio	248
Cassette per clip cerebrovascolari	230-232
CASTROVIEJO HM Micro portaghi	72-73
CASTROVIEJO Micro portaghi	72
CASTROVIEJO-MICRO Micro portaghi	73
Cavi di connessione bipolari	64
Cestello	249
Clamp Bulldog	85-87
Clamp Bulldog atraumatiche	85, 87
Clamp Bulldog titanio	85
Clamps atraumatiche	85, 87
CLINIC LAHEY Uncino per pelle	173
Clip cerebrovascolari	207-220
Clip cerebrovascolari "Mini"	219-220
Clip cerebrovascolari "Standard"	209-218
Clip emostatiche per cuoio capelluto	139-142
Clip in titanio	90
Clip vascolari	89-98
COBB Periostotomi	116
CONE Pinza per craniotomia	146
Contenitore doppio	276
Contenitore per sterilizzazione	249
CONTOUR Divaricatore autostatico	103
Coltelli lanceolati	195
Coltelli per tumori	194
Coltelli per vasi	192-193
Craniotomi	145
CRILE Uncino	172
CRILE-WOOD-BABY HM Portaghi	70
CRILE-WOOD-BABY Portaghi	69
CRILE-WOOD HM (DEBAKEY HM) Portaghi	69
CRILE-WOOD Portaghi	69
CRUTCHFIELD Perforatore	151
CRUTCHFIELD Pinze di trazione per cranio	149
Cucchiai taglienti	197-198
Cucchiaio	254
Curette	198, 252-254
CUSHING HM Pinze anatomiche/chirurgiche	35
CUSHING-LANDOLT Specoli	263
CUSHING Perforatore piatto	150
CUSHING Periostotomi	112
CUSHING Pinze anatomiche/chirurgiche	35
CUSHING (TAYLOR) HM	
Pinza a forma di baionetta	51
CUSHING (TAYLOR)	
Pinze a forma di baionetta	51
CUSHING Uncini per nervi	167

D

DAHLGREN Pinza per craniotomia	146
DANDY Pinze emostatiche	88

**Alphabetischer Index****Alphabetical Index****Indice alfabetico****Index alphabétique****Indice alfabetico**

DANDY-BABY Pinza emostatica	88
DAVIS Dissettore	177
DAVIS Separatore	175
DAVIS Spatole cerebrali	200
DEBAKEY AT Pinze atraumatiche	38-39
DEBAKEY AT Pinze Bulldog	87
DEBAKEY AT Pinze vascolari atraumatiche	36-37
DEBAKEY HM Portagli	69
DE MARTEL (BAILEY) Strumento introduttore	148
DENNIS Micro pinze	45
D'ERRICO Perforatore elicoidale	150
DEVILBISS Pinza per craniotomia	146
DIEFFENBACH Pinze Bulldog	86
DIETHRICH HEGEMANN Forbici vascolari	19
DIETHRICH Pinze Bulldog	86
Dilatatori vascolari	189
Dispositivo di denuta	64
Dissettori	177-184, 255, 261
Dissettori per dura-madre	177
Divaricatore per il cuoio capelluto	103
Divaricatore per specoli	264
Divaricatori autostatici	101-104
Divaricatori delicati	100
Divaricatori per spatole cerebrali	202-206
E	
ECHLIN Pinze sgorbie	127
EIF Uncino	169
Elevatore per il setto nasale	107
Elevatori	106-107
Enucleatori	256, 262
F	
FARABEUF Periostotomi	110
FERGUSSON-FRAZIER Strumenti per aspirazione	82
FERRIS-SMITH KERRISON Laminotomi	164
FISCH Uncino	170
FIXIT sistema di fissazione cranica	131-138
Forbice per fili d'acciaio e placche Mesh HM	246
Forbici	7-30
Forbici chirurgiche	10-13
Forbici delicate	10, 14-15
Forbici delicate per dissezione	14-15
Forbici MICRO 2000	21, 26
Forbici per dura-madre	29
Forbici per fili d'acciaio e placche Mesh	30
Forbici per legatura	30
Forbici per dissezione	14-18
Forbici per trigemino	29
Forbici per tumori	22
Forbici vascolari	19-20
Forbici micro	20-28, 260
Forchetta da sutura	196

Forchetta per trapianto	262
FRAZIER (FERGUSSON) Strumenti per aspirazione	82
FRAZIER Separatore	174
FRAZIER Strumenti per aspirazione	81-82
FRAZIER Uncino per dura-madre e pelle	173
FREER Elevatori	107
FREER Periostotomio	108
Frese	150-151, 272-274
Frese "Flameshape"	273
Frese a pallina	150
Frese a pallina diamantate	272
Frese cilindriche	273
Frese cilindriche diamantate	272
Frese neuro	273
Frese per craniotomo	145
Frese per la dermoabrasione	274
Frese per vertebre	273
FRIEDMANN Pinza sgorbia	119
G	
GALT Trepani cranici	147
GIGLI (OLIVECRONA) Seghe di filo d'acciaio	148
GIGLI Manici	148
GILLIES Pinza chirurgica	34
GILLIES Uncini	173
GREENBERG PAR Forbici delicate per dissezione	14
GRUENWALD Pinze a forma di baionetta	51
H	
HALSEY HM Portagli	67
HARDY Curette	253
HARDY Dissettori	261
HARDY Enucleatori	262
HARDY Forchetta per trapianto	262
HARTMANN PAPAVERO Divaricatore per specoli	264
HEGAR MAYO HM Portagli	68
HEGEMANN-DIETHRICH Forbici vascolari	19
HM Forbice per fili d'acciaio e placche Mesh	246
HM Forbici per legatura	30
HM Pinze	32, 35, 52
HM Pinze per tagliare fili e placche	246
HOEN Elevatori	106
HOEN Pinza per il cuoio capelluto	88
HOEN Separatori	174
HOPKINS JOHNS Pinze Bulldog	87
HOPKINS JOHNS Pinza per applicare e togliere	87
HORSLEY Separatore	175
HUDSON Trapano a mano	150
HUNT Pinze da presa per tumori	52

**I**

- Inserti lavorativi 145, 271
Interruttore a pedale 275

J

- JACOBSON Coltello per vasi 192
JACOBSON Forchetta da sutura 196
JACOBSON HM Micro portaghi 74
JACOBSON Micro forbice 24
JACOBSON Micro pinze 43
JACOBSON Micro portaghi 74
JACOBSON Sonda buttonuta 189
JACOBSON Uncino 170
JACOBSON-ADSON Micro pinze 40
JAMESON REYNOLDS
Forbici per dissezione 18
JANSEN ZAUFAL Pinza sgorbie 123
JOHNS-HOPKINS Pinze Bulldog 87
JOHNS-HOPKINS
Pinza per applicare e togliere 87
JULIAN HM Portaghi 70
JULIAN Portaghi 70

K

- KERRISON "DieBlauen" Laminotomi 153-157
KERRISON (FERRIS-SMITH) Laminotomi 164
KERRISON (MICRO) Laminotomi 160-163
KERRISON (SCHLESINGER) Laminotomi 159
KERRISON (SPURLING) Laminotomi 158
KERRISON Laminotomi smontabili 155-157
KEY Periostotomi 111
KEY LISTON Pinza ossivora 127
KILLIAN Elevatore per il setto nasale 107
KLEINERT-KUTZ Pinze sgorbie 119
KLIMA-ROSEGGER
Cannule per puntura sternale 81
KOCHER MATHIEU HM Portaghi 71
KOOS Coltelli per vasi 193
KRÄMER Periostotomi 109
KRAYENBÜHL Uncini 169
KUTZ KLEINERT Pinze sgorbie 119

L

- LAHEY-CLINIC Uncino per pelle 173
LAMBOTTE Periostotomi 111
Lame per bisturi 4-6
Lame per cacciavite 241, 245, 250
Laminotomi 153-164
Laminotomi smontabili 155-157
LANDOLT Cucchiaio 254
LANDOLT Curetta 254
LANDOLT CUSHING Specoli 263
LANDOLT Enucleatori 256
LANDOLT Manici per bisturi 6
LANDOLT Pinza divaricatrice per specoli 263

LANDOLT Pinza per afferrare tumori 257

- LANDOLT-REULEN Dissettore 255
LANDOLT-REULEN Periostotomo 256
LANDOLT-REULEN Uncino 255
LANDOLT Uncini 255
LANGENBECK Elevatori 106
LANGENBECK HM Portaghi 72
LANGENBECK Periostotomi 112
LEKSELL Pinze sgorbie 125-126
LEMPERT Pinze sgorbie 120
LEYLA Braccio tenditore flessibile 204
LEYLA Divaricatori per spatole cerebrali 202-203
LISTON-KEY Pinza ossivora 127
LISTON LITTAUER Pinza ossivora 128
LISTON RUSKIN Pinze ossivore 128
LITTAUER-LISTON Pinza ossivora 128
Lubrificante per motore 276
LUCAE Uncini per nervi 166
LUER Pinze sgorbie 120
LUER STILLE Pinze sgorbie 124

M

- Manici 148
Manici per bisturi 4-6
Manici per cacciavite 241, 245, 250
MARQUARDT Pinza sgorbia 123
MASEL Placche di copertura per fori 243
MATHIEU HM Portaghi 71
MATHIEU-KOCHER HM Portaghi 71
MATHIEU Portaghi 71
MAYO Forbici chirurgiche 13
MAYO HEGAR HM Portaghi 68
MCINDOE Pinza anatomica 34
MCINDOE Pinze ossivore 128
MCKENZIE Perforatore elicoidale 150
MEHDORN Micro clip vascolari 92
MEHDORN Pinza per applicare 92
METZENBAUM Forbici per dissezione 16
METZENBAUM BABY
Forbici delicate per dissezione 15
METZENBAUM-SLIM Forbici per dissezione 17
MICHELE Trepani cranici 147
MICRO 2000 Forbici 21, 26
MICRO 2000 Portaghi 76, 78
MICRO 2000 Pinze 40-42, 48, 54-56
MICRO 2000 pinze per sutura 54-56
MICRO ADSON Pinze delicate 32
Micro ago 197
Micro artigli per tessuti 195
MICRO CASTROVIEJO Micro portaghi 73
Micro clip vascolari 92-98
Micro coltelli lanceolato 195
Micro coltelli per tumori 194



Micro coltelli per vasi	192-193	Perforatori a spirale	151-152, 274
Micro cucchiali	197-198	Perforatori di Rosen	272
Micro curette	198	Perforatori per cemento	273
Micro dilatatori vascolari	189	Periostotomi	108-117, 190-191, 256
Micro forbici	20-28, 260	PETERSEN-SMITH Pinze sgorbie	122
Micro forbici MICRO 2000	21, 26	Pinza divaricatrice	263
Micro forchetta da sutura	196	Pinza per applicare	92-97
MICRO KERRISON Laminotomi	160-163	Pinze	31-63
Micro passafilo	196	Pinze a forma di baionetta	47-53, 60-63
Micro periostotomi	191-192	Pinze anatomiche/chiururgiche	32-35
Micro pinze	39-50	Pinze antiaderenti	57-61
Micro pinze con morso a cucchiaio	259	Pinze atraumatiche	36-39
Micro pinze titanio	44, 46	Pinze bipolari	58-63
Micro portaghi	72-78	Pinze bipolari antiaderenti	57-61
Micro portaghi in titanio	77	Pinze Bulldog	85-87
Micro sonde bottonute	189	Pinze Bulldog atraumatiche	85, 87
Micro strumenti	189-198	Pinze Bulldog titanio	85
Micro uncini	174	Pinze di trazione per cranio	149
MILLESI Micro forbice	24	Pinze da presa	53
MINI RUSKIN Pinze sgorbie	121	Pinze da presa per placche	247
MINI-RYDER HM Portaghi	70	Pinze da presa per viti	247
MISKIMON Divaricatore autostatico	102	Pinze delicate, anatomiche e chirurgiche	32-33
MOD. AACHEN Spatole cerebrali	200	Pinze emostatiche	88
MOD. KÖLN		Pinze guida-perforatore	147
Clip emostatica per cuoio capelluto	142	Pinze HM	32, 35, 52
Motore angolato	144, 270	Pinze micro	39-50
Motore con accoppiamento INTRA	269	Pinze MICRO 2000	40-42, 48, 54-56
Motore trapano	144	Pinze micro titanio	44, 46
Motori pneumatici	144, 269-270	Pinze con morso a cucchiaio	258-259
MÜHLING Periostotomi	108	Pinze ossivore	127-128
MÜLLER BIEMER Approssimatori	95-96	Pinze per afferrare	53, 260, 257
N		Pinze per afferrare tumori	53, 257
NEIVERT HM Portaghi	67	Pinze per applicare	92-97
NICOLA Curette	253-254	Pinze per applicare clamps Bulldog	87
NICOLA Micro forbice	260	Pinze per applicare clip cerebrovascolari	221-228
NICOLA Pinza con morso a cucchiaio	258	Pinze per applicare e togliere	140-141
O		Pinze per applicare per clip in titanio	91
OLIVECRONA Dissettori	177	Pinze per craniotomia	146
OLIVECRONA Forbice per trigemino	29	Pinze per gioielliere/orologiaio	39, 58-59
OLIVECRONA GIGLI Seghe di filo d'acciaio	148	Pinze per il cuoio capelluto	88
OLIVECRONA Periostotomo	110	Pinze per sutura	54-56
OLIVECRONA Spatole cerebrali	201	Pinze per tagliare fili e placche	246
P		Pinze per togliere	87
PAPAVERO-CASPAR Specoli	264	Pinze per togliere clip cerebrovascolari	229
PAPAVERO Scalpello per lamina	257	Pinze piegoplacche	247
PAPAVERO-HARTMANN		Pinze sgorbie	119-127
Divaricatore per specoli	264	Pinze vascolari atraumatiche	36-37
Passafilo	196	Pinze forbice	260
PEN Cannule per aspirazione	79-80	Placche di copertura per fori	235, 243
PENFIELD Dissettori	178-179	Placche in titanio	234-239, 242-243, 250
Perforatore piatto	150	Portaghi	65-78
Perforatori elicoidali	150, 241, 245, 250	Portaghi MICRO 2000	76, 78



Portaghi micro	72-78
Portaghi titanio	77
POTTS-SMITH Forbici vascolari	19-20
POTTS-SMITH	
Pinze anatomiche/chirurgiche	34
POTTS-YASARGIL Micro forbice	24
Protezione antispruzzo per la dermoabrasione	274
Punte per perforatore	145
Q	
QUINCKE Cannule per puntura	81
R	
RAIMONDI Pinza per il cuoio capelluto	88
RALK Trapano a mano	152
RANEY	
Clip emostatiche per cuoio capelluto	140-141
RAY Curette	252
REULEN LANDOLT Dissettore	255
REULEN LANDOLT Periostotomo	256
REULEN LANDOLT Uncino	255
REYNOLDS (JAMESON)	
Forbici per dissezione	18
RHOTON Ago	197
RHOTON Cucchiai taglienti	197
RHOTON Dissettori	182
RHOTON Periostotomi	191
RHOTON Sonda buttonuta	189
RHOTON Uncini	171
RIECHERT Fissagi	204
RIECHERT	
Sostegno per spatole cerebrali piatte	204
ROSEGGER KLIMA Cannule per puntura	81
RUSKIN Pinze sgorbie	121-122
RUSKIN-LISTON Pinze ossivore	128
RUSKIN-MINI Pinze sgorbie	121
RYDER MINI HM Portaghi	70
S	
SACHS Separatore	175
SAMII Coltelli lanceolati	195
SAMII Coltelli per tumori	194
Scalpello per lamina	257
SCHLESINGER KERRISON Laminotomi	159
SCHMIEDEN (TAYLOR)	
Forbice per dura-madre	29
SEDILOT Periostotomi	109
Seghe di filo d'acciaio	148
SELECT Pinze delicate	33
SEMB-STILLE Pinze sgorbie	124
SEMKEN Pinze delicate	33
Separatori per dura-madre	174-175
Separatori per nervi	174-175
SHEA Forbici delicate per dissezione	14
SHERMAN STILLE Trapano a mano	151

Sistema di neuro-fissaggio	233-249
Sisteme di fissazione cranica	131-138
SLIM Forbici delicate per dissezione	15
SLIM METZENBAUM Forbici per dissezione	17
SMITH FERRIS KERRISON Laminotomi	164
SMITH POTTS Forbici vascolari	19-20
SMITH POTTS Pinze anatomiche/chirurgiche	34
SMITH-PETERSEN Pinze sgorbie	122
SMITHWICK Uncino simpatectomia	176
Sonde buttonute	189
SÖRENSEN Testieras	134-137
Spatole cerebrali	200-201
Specoli	263-264
SPURLING KERRISON Laminotomi	158
STELLBRINK Pinze sgorbie	119
STILLE Pinza sgorbia	126
STILLE Trapano a mano	151
STILLE-LUER Pinze sgorbie	124
STILLE SEMB Pinze sgorbie	124
STILLE-SHERMAN Trapano a mano	151
STRAIGHT Uncino per pelle	173
STRULLY Forbice per trigemino	29
Strumenti di micro	189-198
Strumenti introduttori	148
Strumenti per adattamento	248
Strumenti per aspirazione e lavaggio	80-83
Strumenti per la trapanazione e craniotomia	143-152
Strumenti per misurare la profondità	248
Supporto di pulizia	276
T	
TAYLOR CUSHING HM	
Pinza a forma di baionetta	51
TAYLOR CUSHING	
Pinza a forma di baionetta	51
TAYLOR SCHMIEDEN	
Forbici per dura-madre	29
Testieras	134-137
Titanio micro pinze	44, 46
Titanio micro portaghi	77
Titanio clips	90
Titanio pinze Bulldog	85
TOENNIS Dissettori	180
TOENNIS HM Portaghi	72
TOENNIS Pinze per afferrare tumori	53
TOENNIS Uncino	174
Trapani	151
Trapani a mano	150-152
Trepano cranico	147
Tubi d'irrigazione	271
Tubi da parete	275
Tubo d'alimentazione	275
TUOHY Cannule per puntura	81

**Alphabetischer Index****Alphabetical Index****Indice alfabetico****Index alphabétique****Indice alfabetico****U**

Uncini 166-176, 255

Uncini e dissettori 165-184, 255

Uncini per dura-madre 172-173

Uncini per esplorazione 176

Uncini per nervi 166-169

Uncini per pelle 172-173

Uncini per vasi 169

Uncini per galea 142

Uncino simpectectomy 176

UNIVERSAL

Forbice per fili d'acciaio e placche Mesh 30

UNIVERSAL HM

Forbice per fili d'acciaio e placche Mesh 30, 246

V

Viti in titanio 240, 244, 250

VPAIR - Sistema

di motore pneumatico 143-145, 265-276

W

WAGNER Peristotomi 117

WEITLANER Divaricatori autostatici 101-102

WEITLANER-BECKMANN

Divaricatori autostatici 104

WILLIGER Peristotomi 108

WOOD CRILE BABY HM Portagli 70

WOOD CRILE BABY Portagli 69

WOOD CRILE HM (DEBAKEY HM) Portagli 69

WOOD CRILE Portagli 69

Y

YASARGIL Artiglie per tessuti 195

YASARGIL Cannule per aspirazione 82

YASARGIL Clip cerebrovascolari 207-220

YASARGIL Clip cerebrovascolare "Mini" 219-220

YASARGIL Clip cerebrovascolare "Standard" 209-218

YASARGIL Coltelli per vasi 193

YASARGIL Dissettore 181

YASARGIL Passafilo 196

YASARGIL Micro forbice 24, 26-28

YASARGIL Micro pinze 47, 49-50

YASARGIL Micro portagli 74, 78

YASARGIL Peristotomi 191-192

YASARGIL Pinze da presa per tumori 53

YASARGIL Pinze con morso a cucchiaio 258

YASARGIL Pinze per afferrare 260

YASARGIL Pinze per applicare clip cerebrovascolari 221-228

YASARGIL Pinze per togliere clip cerebrovascolari 229

YASARGIL POTTS Micro forbice 24

YASARGIL Uncini per galea 142

Z

ZUFAL-JANSEN Pinza sgorbia 123

MEDICONAINER CONTAINER System



**Numerischer Index****Numerical Index****Indice numérico****Index numérique****Indice numerico**

01.22.10	4	03.50.14	13	05.15.70	21	06.20.62	32
01.22.11	4	03.50.17	13	05.15.71	21	06.20.65	32
01.22.12	4	03.50.64	13	05.15.72	21	06.21.12	32
01.22.15	4	03.50.67	13	05.15.73	21	06.21.13	32
01.22.20	5	03.51.14	13	05.15.74	20	06.21.62	32
01.22.21	5	03.51.17	13	05.15.75	20	06.21.65	32
01.22.25	5	03.51.64	13	05.15.76	20	06.22.12	32
01.22.32	4	03.51.67	13	05.15.77	20	06.22.15	32
01.22.35	4	04.13.12	14	05.15.81	21	06.23.12	32
01.27.03	4	04.24.14	15	05.15.83	21	06.23.15	32
01.27.07	4	04.24.64	15	05.16.68	22	06.30.12	33
01.27.21	6	04.25.14	15	05.16.69	22	06.30.15	33
01.27.25	6	04.25.64	15	05.16.74	22	06.30.22	33
01.27.40	4	04.32.11	15	05.16.75	22	06.30.25	33
01.28.04	5	04.32.14	16	05.18.68	22	06.31.12	33
01.28.14	5	04.32.18	16	05.18.69	22	06.31.15	33
01.28.45	5	04.32.20	16	05.18.70	21	06.31.22	33
01.30.36	6	04.32.61	15	05.18.71	21	06.31.25	33
01.30.37	6	04.32.64	16	05.18.72	21	06.31.32	33
01.30.62	6	04.32.68	16	05.18.73	21	06.34.55	33
01.30.64	6	04.32.70	16	05.18.74	22	06.34.58	33
01.30.65	6	04.33.11	15	05.18.75	22	06.34.60	33
01.30.67	6	04.33.14	16	05.18.81	21	06.35.55	33
01.30.69	6	04.33.18	16	05.18.83	21	06.35.58	33
02.50.45	10	04.33.20	16	05.18.84	23	06.35.60	33
03.02.14	10	04.33.61	15	05.18.85	23	06.40.15	34
03.02.16	10	04.33.64	16	05.18.86	23	06.40.85	34
03.02.64	10	04.33.68	16	05.18.87	23	06.46.18	34
03.02.84	13	04.33.70	16	05.18.89	23	06.46.20	34
03.03.14	10	04.34.14	17	05.18.90	23	06.46.25	34
03.03.16	10	04.34.18	17	05.18.92	23	06.48.18	34
03.03.64	10	04.34.20	17	05.18.93	23	06.48.20	34
03.03.84	13	04.34.64	17	05.18.94	23	06.48.25	34
03.04.14	11	04.34.68	17	05.18.95	23	06.50.15	36
03.04.16	11	04.34.70	17	05.18.96	24	06.50.19	36
03.04.64	11	04.35.14	17	05.18.97	24	06.50.24	36
03.04.84	12	04.35.18	17	05.18.98	24	06.50.30	36
03.05.14	11	04.35.20	17	05.18.99	24	06.51.15	37
03.05.16	11	04.35.64	17	05.19.01	24	06.51.20	37
03.05.64	11	04.35.68	17	05.19.02	25	06.52.15	36
03.05.84	12	04.35.70	17	05.19.10	25	06.52.19	36
03.06.14	11	04.66.12	18	05.19.25	25	06.52.24	36
03.06.16	11	04.66.14	18	05.19.45	25	06.52.30	36
03.06.64	11	04.66.16	18	05.19.60	25	06.54.15	36
03.06.84	12	04.66.18	18	05.21.68	22	06.54.19	36
03.07.14	11	04.67.12	18	05.21.69	22	06.54.24	36
03.07.16	11	04.67.14	18	05.21.74	22	06.54.30	36
03.07.64	11	04.67.16	18	05.21.75	22	06.55.15	36
03.07.84	12	04.67.18	18	06.20.12	32	06.55.19	36



06.55.24	36	07.64.03	41	09.83.76	82	10.20.68	69
06.55.30	36	07.64.04	41	09.83.78	82	10.20.70	69
06.60.17	35	07.64.13	41	09.83.80	82	10.20.73	69
06.60.18	35	07.64.14	41	09.83.82	82	10.20.75	69
06.60.68	35	07.64.63	42	09.83.99	83	10.20.76	69
06.60.69	35	07.64.64	42	09.84.13	82	10.20.80	69
06.60.87	35	07.64.73	42	09.84.15	82	10.21.20	70
06.60.88	35	07.64.74	42	09.84.18	82	10.21.23	70
06.62.15	37	07.64.83	42	09.84.22	82	10.21.70	70
06.62.19	37	07.64.84	42	09.84.23	82	10.21.73	70
06.62.24	37	07.64.93	42	09.84.25	82	10.28.63	70
06.64.15	37	07.64.94	42	09.84.28	82	10.28.65	70
06.64.19	37	07.66.12	40	09.84.32	82	10.28.68	70
06.64.24	37	07.66.15	40	09.84.33	82	10.28.70	70
06.70.15	38	07.70.11	43	09.84.35	82	10.28.73	70
06.70.20	38	07.70.15	43	09.84.38	82	11.18.64	71
06.70.24	38	07.70.18	43	09.84.42	82	11.18.67	71
06.72.15	38	07.72.19	41	09.84.43	82	11.18.70	71
06.72.20	38	07.74.15	44	09.84.45	82	11.20.14	71
06.72.24	38	07.74.18	44	09.84.48	82	11.20.17	71
06.74.15	38	07.74.21	44	09.84.52	82	11.20.20	71
06.74.20	38	07.75.20	47	09.99.01	80	11.20.64	71
06.74.24	38	07.75.30	43	09.99.07	80	11.20.67	71
06.90.15	39	07.75.31	43	09.99.08	80	11.20.70	71
06.90.18	39	07.75.32	43	09.99.09	80	11.20.74	71
06.90.21	39	07.75.40	48	09.99.11	80	11.34.66	72
06.92.15	39	07.75.42	48	09.99.12	80	11.34.68	72
06.92.18	39	07.75.43	48	09.99.13	80	11.34.70	72
06.92.21	39	07.76.15	44	10.08.62	67	11.36.66	72
07.26.18	51	07.76.18	44	10.10.63	67	11.36.68	72
07.26.19	51	07.76.21	44	10.14.64	67	11.36.70	72
07.26.68	51	09.70.18	81	10.18.65	68	11.62.14	72
07.27.18	51	09.72.07	81	10.18.68	68	11.62.15	72
07.30.16	51	09.72.08	81	10.18.70	68	11.62.17	72
07.30.19	51	09.72.10	81	10.18.73	68	11.62.18	72
07.31.16	51	09.72.11	81	10.18.74	68	11.62.63	72
07.31.19	51	09.72.12	81	10.18.76	68	11.62.64	73
07.60.03	39	09.72.13	81	10.18.80	68	11.62.67	73
07.60.04	39	09.72.14	81	10.18.85	68	11.62.84	73
07.60.05	39	09.73.12	81	10.18.88	68	11.62.87	73
07.60.07	39	09.73.14	81	10.18.90	68	11.70.22	73
07.60.10	40	09.73.16	81	10.18.93	68	11.70.23	73
07.61.05	40	09.73.92	81	10.20.14	69	11.70.24	73
07.61.06	40	09.73.93	81	10.20.15	69	11.70.25	73
07.61.11	41	09.83.56	82	10.20.18	69	11.74.13	73
07.61.12	41	09.83.58	82	10.20.20	69	11.74.15	73
07.61.14	41	09.83.60	82	10.20.23	69	11.74.23	73
07.63.31	40	09.83.62	82	10.20.64	70	11.74.25	73
07.63.32	40	09.83.73	82	10.20.65	69	11.80.68	74



Numerischer Index
Numerical Index
Indice numérico
Index numérique
Indice numerico

11.80.71	74	12.18.69	75	13.71.62	54	15.15.38	87
11.82.18	74	12.18.70	76	13.71.70	54	15.15.51	87
11.82.21	74	12.18.71	76	13.71.72	54	15.16.07	87
11.82.68	74	12.18.72	76	13.71.82	55	15.17.07	87
11.82.71	74	12.18.73	76	13.71.83	55	15.19.93	87
11.84.68	74	12.18.74	76	13.71.84	56	16.11.83	88
11.85.68	74	12.18.75	76	13.71.86	56	16.11.84	88
11.86.68	74	12.18.76	75	14.06.84	30	16.11.94	88
11.87.68	74	12.18.77	75	14.06.88	30	16.11.97	88
12.12.40	78	12.18.78	75	14.06.93	30	16.11.98	88
12.12.41	78	12.18.79	75	14.23.12	30	20.20.34	166
12.12.42	78	12.18.80	75	14.23.62	30, 246	20.20.57	166
12.12.43	78	12.18.81	75	14.26.72	246, 248	20.20.59	166
12.12.48	78	12.18.82	75	14.30.13	246	20.22.01	166
12.12.54	75	12.18.83	75	14.30.17	246	20.22.02	166
12.12.55	75	12.18.85	77	15.04.30	85	20.22.03	166
12.12.56	75	12.18.86	77	15.04.31	85	20.22.31	167
12.12.57	75	12.18.87	77	15.04.35	85	20.22.32	167
12.12.59	75	12.18.88	77	15.04.36	85	20.22.36	167
12.12.61	75	12.21.56	75	15.04.40	85	20.22.37	167
12.15.30	78	12.21.57	75	15.04.41	85	20.27.22	172
12.15.31	78	12.21.60	75	15.04.50	85	20.27.23	172
12.15.32	78	12.21.61	75	15.04.51	85	20.27.37	172
12.15.33	78	12.21.66	75	15.05.30	85	20.30.12	173
12.15.50	74	12.21.67	75	15.05.31	85	20.30.19	173
12.15.51	74	12.21.70	75	15.05.35	85	20.30.20	173
12.15.56	75	12.21.71	75	15.05.36	85	20.31.13	173
12.15.57	75	12.21.76	75	15.05.40	85	20.31.15	173
12.15.66	75	12.21.77	75	15.05.41	85	20.64.01	100
12.15.67	75	12.21.78	75	15.05.50	85	20.64.02	100
12.15.70	76	12.21.79	75	15.05.51	85	20.64.03	100
12.15.71	76	12.21.80	75	15.07.30	85	20.64.04	100
12.15.72	76	12.21.81	75	15.07.31	85	20.65.01	100
12.15.73	76	12.21.82	75	15.07.35	85	20.65.02	100
12.15.76	75	12.21.83	75	15.07.36	85	20.65.03	100
12.15.77	75	12.21.95	77	15.07.40	85	20.65.04	100
12.15.78	75	12.21.96	77	15.07.41	85	20.66.01	100
12.15.79	75	12.21.97	77	15.07.50	85	20.66.02	100
12.16.75	77	12.21.98	77	15.07.51	85	20.66.03	100
12.16.76	77	13.70.42	54	15.10.08	86	20.66.04	100
12.16.77	77	13.70.72	56	15.10.12	86	20.67.01	100
12.16.78	77	13.70.74	56	15.10.16	86	20.67.02	100
12.18.56	75	13.71.22	56	15.10.38	86	20.67.03	100
12.18.57	75	13.71.23	56	15.10.51	86	20.67.04	100
12.18.60	75	13.71.42	55	15.11.08	86	24.22.13	101
12.18.61	75	13.71.43	55	15.11.12	86	24.22.14	101
12.18.66	75	13.71.50	54	15.11.16	86	24.22.16	101
12.18.67	75	13.71.52	54	15.11.38	86	24.22.17	101
12.18.68	75	13.71.60	54	15.11.51	86	24.22.20	101



24.22.21	101	26.56.25	111	30.76.29	120	55.15.46	20
24.22.24	101	26.60.35	112	31.04.02	121	55.15.50	19
24.22.25	101	26.62.01	112	31.04.03	121	55.15.51	19
24.22.26	102	26.62.02	112	31.05.02	121	56.50.01	90
24.22.27	102	26.64.06	113	31.05.03	121	56.50.02	90
24.26.70	103	26.64.06P	113	31.06.05	121	56.50.03	90
24.28.01	103	26.64.13	113	31.06.25	122	56.50.04	90
24.28.02	103	26.64.13P	113	31.07.05	121	56.50.11	90
24.28.03	103	26.64.16	113	31.07.25	122	56.50.12	90
24.28.10	102	26.64.16P	113	31.09.03	122	56.50.14	90
24.30.13	104	26.64.26	113	31.09.13	122	56.50.15	91
24.30.14	104	26.64.26P	113	31.09.23	122	56.50.19	91
24.30.16	104	26.64.73	114	31.11.04	123	56.50.25	91
24.30.17	104	26.64.75P	114	31.11.05	123	56.50.29	91
24.30.20	104	26.64.84	115	31.11.13	123	56.50.30	91
24.30.21	104	26.64.86P	115	31.30.23	124	56.50.40	91
26.27.57	106	26.64.94	115	31.30.24	124	56.74.06	95
26.27.65	106	26.64.96P	115	31.31.23	124	56.74.09	95
26.27.70	106	26.65.10	116	31.31.24	124	56.75.09	95
26.29.07	106	26.65.10P	116	31.31.53	124	56.76.09	95
26.29.10	106	26.65.13	116	31.31.57	124	56.77.09	95
26.35.01	108	26.65.13P	116	31.31.83	126	56.78.01	96
26.35.02	107	26.65.19	116	31.51.05	125	56.78.02	96
26.35.03	107	26.65.19P	116	31.51.08	125	56.78.03	96
26.42.03	108	26.65.25	116	31.53.03	125	56.78.04	96
26.42.05	108	26.65.25P	116	31.53.05	125	56.79.00	98
26.42.07	108	26.67.27	117	31.53.08	125	56.79.01	98
26.47.01	108	26.67.27P	117	31.54.03	126	56.80.04	92
26.47.02	108	26.67.33	117	31.54.05	126	56.80.06	92
26.47.11	108	26.67.33P	117	31.54.08	126	56.80.14	92
26.47.12	108	26.67.34	117	31.61.02	127	56.81.04	92
26.47.32	109	26.67.34P	117	31.61.03	127	56.81.06	92
26.47.33	109	26.68.20	114	31.61.04	127	56.85.07	93
26.47.35	109	26.68.20P	114	33.02.15	128	56.85.08	93
26.47.38	109	26.73.09	112	33.56.18	128	56.85.10	93
26.48.01	110	26.73.13	112	33.57.18	128	56.85.11	93
26.48.02	107	26.73.19	112	33.58.18	128	56.85.13	93
26.48.03	110	30.05.14	119	33.59.17	128	56.85.14	93
26.48.04	110	30.52.17	120	33.59.18	128	56.85.16	93
26.50.58	110	30.52.18	120	33.75.27	127	56.85.17	93
26.53.13	110	30.53.18	120	49.50.13	249	56.85.18	93
26.53.23	110	30.54.70	120	49.90.00	276	56.85.19	93
26.54.10	111	30.71.02	119	49.90.04	187	56.85.47	97
26.54.15	111	30.71.03	119	49.97.02	249	56.85.48	97
26.54.20	111	30.76.13	119	55.15.32	19	56.85.50	97
26.54.25	111	30.76.14	119	55.15.34	19	56.85.51	97
26.56.06	111	30.76.17	119	55.15.36	19	56.85.53	97
26.56.12	111	30.76.18	119	55.15.42	20	56.85.54	97
26.56.20	111	30.76.19	120	55.15.44	20	56.85.56	97

**Numerischer Index****Numerical Index****Indice numérico****Index numérique****Indice numerico**

56.85.57	97	57.07.22	161	57.09.62	162	57.28.43	156
56.85.58	97	57.07.23	161	57.09.63	162	57.28.44	156
56.85.59	97	57.07.24	161	57.09.64	162	57.28.45	156
56.85.91	93, 97	57.07.25	161	57.09.65	162	57.28.46	156
56.85.93	93, 97	57.07.26	161	57.09.66	162	57.28.51	156
56.85.98	93, 97	57.07.31	161	57.09.67	162	57.28.52	156
56.86.36	93	57.07.32	161	57.09.68	162	57.28.53	156
56.86.37	93	57.07.33	161	57.09.69	162	57.28.54	156
56.86.58	97	57.07.34	161	57.10.05	164	57.28.55	156
56.86.59	97	57.07.35	161	57.10.15	164	57.28.56	156
56.87.05	94	57.07.36	161	57.11.39	163	57.28.61	156
56.87.08	94	57.07.41	160	57.11.40	163	57.28.62	156
56.87.18	94	57.07.42	160	57.11.41	163	57.28.63	156
56.87.35	94	57.07.43	160	57.11.42	163	57.28.64	156
56.87.38	98	57.07.44	160	57.11.51	163	57.28.65	156
56.87.45	94-96	57.07.45	160	57.11.52	163	57.28.66	156
56.87.46	94-96	57.07.46	160	57.11.53	163	57.28.71	157
56.87.49	98	57.07.51	160	57.11.54	163	57.28.72	157
57.01.20	146	57.07.52	160	57.25.16	29	57.28.73	157
57.01.21	146	57.07.53	160	57.25.20	29	57.28.74	157
57.06.43	159	57.07.54	160	57.25.70	29	57.28.75	157
57.06.45	159	57.07.55	160	57.27.91	155	57.28.76	157
57.06.53	158	57.07.56	160	57.27.92	155	57.28.91	157
57.06.55	158	57.07.61	161	57.28.01	155	57.28.92	157
57.06.57	158	57.07.62	161	57.28.02	155	57.28.93	157
57.06.59	158	57.07.63	161	57.28.03	155	57.28.94	157
57.06.63	158	57.07.64	161	57.28.04	155	57.28.95	157
57.06.65	158	57.07.65	161	57.28.05	155	57.28.96	157
57.06.67	158	57.07.66	161	57.28.06	155	57.29.07	53
57.06.69	158	57.07.71	161	57.28.11	155	57.29.10	53
57.06.73	159	57.07.72	161	57.28.12	155	57.29.12	53
57.06.75	159	57.07.73	161	57.28.13	155	57.29.19	200
57.06.83	159	57.07.74	161	57.28.14	155	57.29.20	200
57.06.85	159	57.07.75	161	57.28.15	155	57.31.09	201
57.06.93	159	57.07.76	161	57.28.16	155	57.31.13	201
57.06.95	159	57.07.77	163	57.28.21	155	57.31.18	201
57.07.01	160	57.07.78	163	57.28.22	155	57.31.22	201
57.07.02	160	57.07.79	163	57.28.23	155	57.31.39	201
57.07.03	160	57.07.80	163	57.28.24	155	57.31.43	201
57.07.04	160	57.07.81	163	57.28.25	155	57.31.48	201
57.07.05	160	57.07.82	163	57.28.26	155	57.31.52	201
57.07.06	160	57.09.50	162	57.28.31	155	57.31.59	201
57.07.11	160	57.09.51	162	57.28.32	155	57.31.63	201
57.07.12	160	57.09.52	162	57.28.33	155	57.31.68	201
57.07.13	160	57.09.53	162	57.28.34	155	57.31.72	201
57.07.14	160	57.09.54	162	57.28.35	155	57.32.14	200
57.07.15	160	57.09.55	162	57.28.36	155	57.32.17	200
57.07.16	160	57.09.56	162	57.28.41	156	57.32.20	200
57.07.21	161	57.09.57	162	57.28.42	156	57.33.07	200



57.33.08	200	57.50.40	176	57.70.14	134	58.30.10	190
57.33.10	200	57.59.01	202	57.70.16	133, 136	58.30.15	181
57.33.11	200	57.59.02	203	57.70.18	136	58.30.16	190
57.33.13	200	57.59.10	202-204	57.70.20	134	58.30.17	190
57.33.14	200	57.59.21	202, 204	57.70.24	134	58.30.18	190
57.33.16	200	57.59.22	203-204	57.70.30	134	58.30.20	189
57.33.17	200	57.59.26	205	57.70.34	134	58.30.23	189
57.33.19	200	57.59.30	202-204	57.70.40	133, 135	58.30.24	189
57.33.22	200	57.59.32	205	57.70.42	135	58.30.25	189
57.34.16	174	57.59.41	206	57.70.44	133, 137	58.30.26	170
57.35.01	174	57.59.42	206	57.70.46	137	58.30.31	169
57.35.02	174	57.59.43	206	57.70.50	133	58.30.32	169
57.35.05	174	57.59.45	206	57.70.60	133	58.30.35	169
57.35.10	175	57.60.00	150	57.70.65	138	58.30.36	169
57.35.19	175	57.60.03	150	57.70.66	138	58.30.41	195
57.35.20	175	57.60.05	150	57.85.01	141	58.30.42	195
57.36.01	177	57.60.09	150	57.85.03A	140	58.30.55	196
57.36.02	177	57.60.14	150	57.85.05	141	58.30.61	196
57.36.03	177	57.60.16	150	57.85.07	140	58.30.62	196
57.36.04	177	57.60.22	150	57.85.10	142	58.30.63	196
57.36.14	177	57.60.34	150	57.85.11	142	58.30.65	196
57.36.25	180	57.60.43	150	57.85.50	142	58.30.91	222
57.36.26	180	57.60.76	150	58.16.45	78	58.30.92	222
57.36.29	180	57.60.95	147	58.16.48	78	58.30.93	222
57.36.51	178	57.61.11	146	58.19.20	26	58.30.94	222
57.36.52	178	57.63.05	147	58.19.21	26	58.31.91	222
57.36.53	178	57.63.08	147	58.19.30	26	58.31.92	222
57.36.54	179	57.63.13	147	58.19.31	26	58.31.93	222
57.36.55	179	57.63.16	147	58.19.40	78	58.31.94	222
57.39.02	81	57.63.19	147	58.19.45	78	58.32.03	170
57.48.03	252	57.64.02	148	58.20.60	48	58.32.04	172
57.48.04	252	57.64.06	148	58.20.64	48	58.32.13	170
57.48.05	252	57.64.30	148	58.20.70	26	58.32.18	170
57.48.13	252	57.64.40	148	58.20.71	26	58.32.21	181
57.48.14	252	57.64.50	148	58.24.15	83	58.32.22	181
57.48.15	252	57.64.60	148	58.24.16	83	58.32.23	181
57.48.23	252	57.64.70	148	58.24.17	83	58.32.32	194
57.48.24	252	57.64.90	148	58.24.18	83	58.32.33	194
57.48.25	252	57.67.01	149	58.24.19	83	58.32.50	198
57.48.33	252	57.67.02	149	58.24.20	83	58.32.51	198
57.48.34	252	57.67.22	151	58.24.21	83	58.32.54	191
57.48.35	252	57.68.02	149	58.24.22	83	58.32.55	191
57.49.10	169	57.68.12	149	58.24.23	83	58.32.56	191
57.49.19	168	57.68.13	149	58.24.24	83	58.32.57	182
57.49.20	168	57.70.00	133-134	58.24.25	83	58.32.58	182
57.49.21	168	57.70.02	133, 136	58.24.26	83	58.32.59	182
57.50.24	168	57.70.06	134, 136	58.24.30	83	58.32.60	182
57.50.25	168	57.70.10	134	58.24.31	83	58.32.61	182
57.50.26	168	57.70.12	133-134	58.30.01	192	58.32.62	197

**Numerischer Index****Numerical Index****Indice numérico****Index numérique****Indice numerico**

58.32.63	171	58.35.03	261	58.41.17	217	58.43.70	220
58.32.64	171	58.35.04	261	58.41.20	217	58.43.71	220
58.32.65	171	58.35.05	261	58.41.25	216	58.43.72	220
58.32.66	189	58.35.06	261	58.41.27	216	58.43.73	220
58.32.67	197	58.35.07	262	58.41.30	216	58.44.05	52
58.32.68	197	58.35.08	262	58.41.35	217	58.45.01	260
58.32.91	222	58.35.16	257	58.41.37	217	58.45.10	258
58.32.92	222	58.35.18	258	58.41.45	217	58.45.15	258
58.32.93	222	58.35.19	262	58.41.47	217	58.45.40	260
58.32.94	222	58.35.44	253	58.41.55	218	58.46.20	259
58.33.01	193	58.35.46	253	58.41.57	218	58.46.25	259
58.33.02	193	58.35.48	253	58.41.65	218	58.46.30	259
58.33.05	193	58.35.49	253	58.41.67	218	58.46.40	22
58.33.06	193	58.35.50	254	58.42.03	219	58.46.42	22
58.33.09	198	58.35.70	263	58.42.04	219	58.46.43	22
58.33.17	191	58.35.86	254	58.42.05	219	58.47.01	176
58.33.18	192	58.35.90	263	58.42.06	219	58.47.02	176
58.33.19	192	58.35.91	263	58.42.07	219	58.47.03	176
58.33.22	183	58.35.92	255	58.42.53	219	58.47.04	176
58.33.23	183	58.35.96	254	58.42.55	219	58.47.05	216
58.33.24	183	58.35.97	256	58.42.58	219	58.47.07	216
58.33.25	184	58.35.98	256	58.42.63	219	58.47.10	216
58.33.26	184	58.35.99	263	58.42.65	219	58.47.15	217
58.33.27	184	58.36.02	184	58.43.03	219	58.47.17	217
58.33.41	194	58.36.03	184	58.43.05	219	58.47.20	217
58.33.42	194	58.36.17	255	58.43.06	219	58.47.25	216
58.33.43	194	58.36.20	255	58.43.07	219	58.47.27	216
58.33.44	194	58.36.32	256	58.43.08	219	58.47.30	216
58.33.48	195	58.36.40	264	58.43.09	220	58.47.35	217
58.33.49	195	58.36.41	264	58.43.10	220	58.47.37	217
58.33.65	186	58.36.42	264	58.43.15	219	58.47.45	217
58.33.66	187	58.36.43	264	58.43.16	220	58.47.47	217
58.33.67	186	58.36.44	257	58.43.17	220	58.47.55	218
58.33.68	187	58.36.91	223	58.43.40	220	58.47.57	218
58.33.70	186	58.36.92	223	58.43.41	220	58.47.65	218
58.33.71	187	58.36.93	223	58.43.42	220	58.47.67	218
58.33.72	186	58.36.94	223	58.43.43	220	58.53.50	214
58.33.73	187	58.37.91	223	58.43.48	220	58.53.51	214
58.33.75	186	58.37.92	223	58.43.53	219	58.53.52	214
58.33.76	187	58.37.93	223	58.43.55	219	58.53.53	214
58.33.80	186	58.37.94	223	58.43.57	219	58.53.54	214
58.33.91	222	58.38.91	223	58.43.58	219	58.53.55	214
58.33.92	222	58.38.92	223	58.43.59	219	58.53.56	214
58.33.93	222	58.38.93	223	58.43.61	220	58.53.57	214
58.33.94	222	58.38.94	223	58.43.63	220	58.53.58	214
58.34.91	223	58.41.05	216	58.43.65	219	58.53.60	215
58.34.92	223	58.41.07	216	58.43.67	220	58.53.61	215
58.34.93	223	58.41.10	216	58.43.68	220	58.53.62	215
58.34.94	223	58.41.15	217	58.43.69	220	58.53.63	215



58.53.64	215	58.55.20	210	58.56.06	219	58.58.12	214
58.53.65	215	58.55.28	210	58.56.07	219	58.58.15	214
58.53.66	215	58.55.30	210	58.56.53	219	58.58.17	214
58.53.67	215	58.55.32	210	58.56.55	219	58.58.21	214
58.53.68	215	58.55.36	210	58.56.58	219	58.58.25	214
58.53.69	216	58.55.37	211	58.56.63	219	58.58.27	214
58.53.70	216	58.55.38	211	58.56.65	219	58.58.31	214
58.53.71	216	58.55.39	211	58.56.91	228	58.58.37	215
58.53.74	216	58.55.40	213	58.56.92	228	58.58.39	215
58.53.75	216	58.55.41	213	58.56.96	226	58.58.42	215
58.53.76	216	58.55.42	213	58.56.97	227	58.58.45	215
58.53.77	217	58.55.43	211	58.56.98	227	58.58.47	215
58.53.78	217	58.55.44	211	58.56.99	227	58.58.51	215
58.53.79	217	58.55.45	211	58.57.03	219	58.58.55	215
58.53.81	216	58.55.46	211	58.57.05	219	58.58.57	215
58.53.82	216	58.55.47	211	58.57.06	219	58.58.61	215
58.53.83	216	58.55.48	212	58.57.07	219	58.58.65	216
58.53.86	217	58.55.49	212	58.57.08	219	58.58.67	216
58.53.87	217	58.55.50	212	58.57.09	220	58.58.71	216
58.53.88	217	58.55.51	212	58.57.10	220	58.58.98	227
58.53.89	217	58.55.52	212	58.57.15	219	58.58.99	227
58.53.91	218	58.55.55	212	58.57.16	220	58.59.06	211
58.53.92	218	58.55.57	212	58.57.17	220	58.59.09	211
58.53.93	218	58.55.58	209	58.57.40	220	58.59.12	211
58.53.94	218	58.55.60	209	58.57.41	220	58.59.17	211
58.54.08	209	58.55.62	213	58.57.42	220	58.59.20	211
58.54.10	209	58.55.63	213	58.57.43	220	58.59.50	214
58.54.12	209	58.55.64	210	58.57.48	220	58.59.51	214
58.54.16	209	58.55.65	212	58.57.53	219	58.59.52	214
58.54.18	209	58.55.66	210	58.57.55	219	58.59.53	214
58.54.21	209	58.55.67	213	58.57.57	219	58.59.54	214
58.54.26	209	58.55.68	213	58.57.58	219	58.59.55	214
58.54.36	226	58.55.71	210	58.57.59	219	58.59.56	214
58.54.58	209	58.55.72	210	58.57.61	220	58.59.57	214
58.54.60	209	58.55.80	210	58.57.63	220	58.59.58	214
58.54.62	209	58.55.81	210	58.57.65	219	58.59.60	215
58.54.66	209	58.55.86	210	58.57.67	220	58.59.61	215
58.54.67	209	58.55.87	212	58.57.68	220	58.59.62	215
58.54.71	209	58.55.89	212	58.57.69	220	58.59.63	215
58.54.72	209	58.55.90	212	58.57.70	220	58.59.64	215
58.54.96	226	58.55.91	210	58.57.71	220	58.59.65	215
58.54.97	227	58.55.92	211	58.57.72	220	58.59.66	215
58.54.98	227	58.55.93	212	58.57.73	220	58.59.67	215
58.54.99	227	58.55.94	211	58.58.01	225	58.59.68	215
58.55.08	209	58.55.95	211	58.58.02	225	58.59.69	216
58.55.10	209	58.55.96	212	58.58.03	225	58.59.70	216
58.55.12	210	58.56.03	219	58.58.04	225	58.59.71	216
58.55.16	210	58.56.04	219	58.58.07	214	58.59.74	216
58.55.17	210	58.56.05	219	58.58.09	214	58.59.75	216

**Numerischer Index****Numerical Index****Indice numérico****Index numérique****Indice numerico**

58.59.76	216	58.60.67	209	58.61.91	210	58.65.21	213
58.59.77	217	58.60.71	209	58.61.92	211	58.65.25	212
58.59.78	217	58.60.72	209	58.61.93	212	58.65.29	213
58.59.79	217	58.61.08	209	58.61.94	211	58.65.31	213
58.59.81	216	58.61.10	209	58.61.95	211	58.65.37	213
58.59.82	216	58.61.12	210	58.61.96	212	58.65.41	213
58.59.83	216	58.61.16	210	58.61.98	227	58.65.49	213
58.59.85	212	58.61.17	210	58.61.99	227	58.66.00	229
58.59.86	217	58.61.20	210	58.63.05	212	58.66.03	229
58.59.87	217	58.61.28	210	58.63.06	211	58.66.06	229
58.59.88	217	58.61.30	210	58.63.07	212	58.66.09	229
58.59.89	217	58.61.32	210	58.63.08	213	59.16.20	27
58.59.91	218	58.61.36	210	58.63.09	211	59.16.21	27
58.59.92	218	58.61.37	211	58.63.10	212	59.18.10	49
58.59.93	218	58.61.38	211	58.63.12	211	59.18.14	49
58.59.94	218	58.61.39	211	58.63.17	211	59.18.16	47
58.59.98	228	58.61.40	213	58.63.20	211	59.19.10	45
58.59.99	228	58.61.41	213	58.63.21	213	59.19.11	45
58.60.00	232	58.61.42	213	58.63.25	212	59.19.12	45
58.60.01	230	58.61.43	211	58.63.29	213	59.19.13	45
58.60.02	231	58.61.44	211	58.63.31	213	59.19.14	45
58.60.03	231	58.61.45	211	58.63.37	213	59.19.15	45
58.60.04	231	58.61.46	211	58.63.41	213	59.19.16	45
58.60.05	232	58.61.47	211	58.63.49	213	59.19.17	45
58.60.08	209	58.61.48	212	58.64.07	214	59.19.18	45
58.60.10	209	58.61.49	212	58.64.09	214	59.19.19	45
58.60.12	209	58.61.50	212	58.64.12	214	59.20.10	49
58.60.16	209	58.61.51	212	58.64.15	214	59.20.14	49
58.60.18	209	58.61.52	212	58.64.17	214	59.20.16	49
58.60.21	209	58.61.55	212	58.64.21	214	59.20.18	49
58.60.26	209	58.61.57	212	58.64.25	214	59.20.20	27
58.60.31	225	58.61.58	209	58.64.27	214	59.20.21	27
58.60.32	225	58.61.60	209	58.64.31	214	59.20.23	27
58.60.33	225	58.61.62	213	58.64.37	215	59.20.30	27
58.60.34	225	58.61.63	213	58.64.39	215	59.20.31	27
58.60.41	225	58.61.64	210	58.64.42	215	59.20.40	78
58.60.42	225	58.61.65	212	58.64.45	215	59.20.45	78
58.60.43	225	58.61.66	210	58.64.47	215	59.23.10	50
58.60.44	225	58.61.67	213	58.64.51	215	59.23.14	50
58.60.45	221	58.61.68	213	58.64.55	215	59.23.20	28
58.60.46	221	58.61.71	210	58.64.57	215	59.23.21	28
58.60.51	225	58.61.72	210	58.64.61	215	59.23.30	28
58.60.52	225	58.61.80	210	58.64.65	216	59.23.31	28
58.60.53	225	58.61.81	210	58.64.67	216	59.23.40	28
58.60.54	225	58.61.85	212	58.64.71	216	59.23.41	28
58.60.58	209	58.61.86	210	58.65.05	212	59.23.42	78
58.60.60	209	58.61.87	212	58.65.07	212	59.23.45	78
58.60.62	209	58.61.89	212	58.65.08	213	59.24.10	49
58.60.66	209	58.61.90	212	58.65.10	212	59.24.14	49



59.44.03	52	68.85.03A	240	68.87.74	234	76.51.21	152
59.44.05	52	68.85.04A	240	68.87.75	234	76.69.15	152
59.44.13	52	68.85.05A	240	68.87.77	235	76.69.20	152
59.44.15	52	68.85.24A	240	68.93.00A	244	76.69.25	152
59.44.43	53	68.85.26A	240	68.93.05A	244	76.69.30	152
59.44.45	53	68.85.43A	240	68.93.12	242	76.69.32	152
59.44.50	50	68.85.44A	240	68.93.20	242	76.69.35	152
59.44.73	52	68.85.45A	240	68.93.23A	244	76.69.40	152
59.44.75	52	68.85.64A	240	68.93.24A	244	76.69.45	152
59.45.15	46	68.85.66A	240	68.93.34A	244	76.69.50	152
59.45.18	46	68.85.73A	240	68.93.49	242	76.69.60	152
59.45.21	46	68.85.74A	240	68.93.50	242	88.00.20	64
59.46.15	46	68.85.75A	240	68.93.51	243	88.00.21	64
59.46.18	46	68.85.83A	240	68.93.52	242	88.00.22	64
59.46.21	46	68.85.84A	240	68.93.53	243	88.00.23	64
59.47.15	46	68.85.85A	240	68.93.54	243	88.00.24	64
59.47.18	46	68.85.98S	250	68.93.59	242	88.00.27	64
59.47.21	46	68.85.99S	250	68.93.60	243	88.00.40	64
59.48.15	46	68.86.11	235	68.93.62	243	88.07.02	58
59.48.18	46	68.86.12	235	68.93.75	242	88.07.03	58
59.48.21	46	68.86.13	235	69.02.40	248	88.07.07	58
59.49.15	47	68.86.14	235	75.23.16	241, 248	88.07.08	58
59.49.18	47	68.86.60	235	75.23.19	241, 245, 248,	88.07.12	58
59.49.21	47	68.86.61	235		250	88.07.13	58
63.69.96	276	68.86.62	235	75.23.41	241, 245, 248	88.07.14	58
66.54.10	107	68.86.63	235	75.23.49	241, 248	88.07.15	58
68.76.06	247	68.86.88	236	75.23.50	241, 245, 248,	88.07.20	59
68.76.31	241, 245, 248, 250	68.86.89	236		250	88.07.23	59
68.76.32	241, 248	68.86.90	236	75.23.52	241, 245, 248, 250	88.07.56	59
68.76.41	247	68.86.91	237			88.07.57	59
68.76.44	248	68.86.92	237	75.23.78A	241, 245, 248, 250	88.07.58	59
68.76.52	247	68.86.93	237			88.07.81	58
68.76.53	247	68.86.94	237	76.50.00	151	88.07.82	58
68.76.54	247, 248	68.87.00	238	76.50.01	151	88.07.83	58
68.76.56	248	68.87.01	238	76.50.10	151	88.07.91	59
68.83.03A	240	68.87.02	234	76.50.11	151	88.07.92	59
68.83.04A	240	68.87.03	234	76.50.12	151	88.07.93	59
68.83.05A	240	68.87.07	234	76.50.13	151	88.08.01	60
68.83.34A	240	68.87.14	234	76.50.14	151	88.08.02	60
68.83.36A	240	68.87.27	239	76.50.15	151	88.08.03	60
68.83.53A	240	68.87.28	239	76.50.16	151	88.08.04	60
68.83.54A	240	68.87.29	239	76.50.17	151	88.08.05	60
68.83.55A	240	68.87.30	239	76.50.18	151	88.08.06	60
68.83.73A	240	68.87.34	234	76.50.19	151	88.08.07	60
68.83.74A	240	68.87.44	234	76.50.30	151	88.08.08	60
68.83.75A	240	68.87.46	234	76.50.31	151	88.08.09	60
68.83.75A	240	68.87.59	234	76.50.80	152	88.08.10	60
68.83.84A	240	68.87.70	234	76.50.81	152	88.08.11	60
68.83.86A	240	68.87.72	234	76.51.20	152	88.08.12	60

**Numerischer Index****Numerical Index****Indice numérico****Index numérique****Indice numerico**

88.08.13	60	93.00.44	271	93.02.35	273	93.06.01	272
88.08.14	60	93.00.46	271	93.02.37	273	93.06.03	272
88.08.15	60	93.00.48	271	93.02.39	273	93.06.07	272
88.08.71	61	93.00.50	271	93.02.41	273	93.06.08	274
88.08.72	61	93.00.52	271	93.02.43	273	93.06.09	272
88.08.73	61	93.00.54	271	93.02.45	272	93.06.11	272
88.08.76	61	93.00.55	271	93.02.47	274	93.06.13	272
88.08.77	61	93.00.56	271	93.02.49	274	93.06.30	273
88.08.81	61	93.00.60	274	93.02.52	272	93.07.03	272
88.08.82	61	93.00.70	271	93.02.54	272	93.07.05	272
88.08.91	61	93.00.72	271	93.02.66	272	93.07.07	272
88.08.92	61	93.00.74	271	93.02.68	272	93.07.08	272
88.08.93	61	93.00.76	271	93.03.01	272	93.07.09	272
88.12.05	63	93.00.78	271	93.03.03	272	203.02.14	10
88.12.06	63	93.00.80	276	93.03.05	272	203.02.16	10
88.12.07	63	93.00.83	276	93.03.07	272	203.03.14	10
88.12.08	63	93.00.85	276	93.03.08	272	203.03.16	10
88.17.05	62	93.01.01	272	93.03.09	272	203.04.14	11
88.17.06	62	93.01.03	272	93.03.10	272	203.05.14	11
88.17.07	62	93.01.05	272	93.03.11	272	203.06.14	11
88.17.08	62	93.01.07	272	93.03.13	272	203.06.16	11
88.20.05	62	93.01.09	272	93.03.15	272	203.07.14	11
88.20.06	62	93.01.11	272	93.03.17	272	203.50.14	13
88.20.07	62	93.01.13	272	93.03.19	272	203.50.17	13
88.20.08	62	93.01.15	145	93.03.20	272	203.50.64	13
88.23.03	63	93.01.17	274	93.03.21	273	203.50.67	13
88.23.07	63	93.01.19	274	93.03.22	273	203.51.14	13
88.23.12	63	93.01.20	272	93.03.23	273	203.51.17	13
88.24.03	63	93.01.22	272	93.03.35	273	203.51.64	13
88.24.07	63	93.01.23	272	93.03.37	145	203.51.67	13
88.24.12	63	93.02.01	272	93.03.38	145	204.13.12	14
88.70.05	63	93.02.03	272	93.03.40	274	204.13.62	14
88.70.06	63	93.02.05	272	93.03.50	272	204.24.14	15
88.70.16	63	93.02.07	272	93.03.66	272	204.24.64	15
88.70.38	62	93.02.09	272	93.03.68	272	204.25.14	15
88.70.39	62	93.02.11	272	93.04.00	145	204.25.64	15
93.00.00	275	93.02.13	272	93.04.01	272	204.32.11	15
93.00.02	275	93.02.17	272	93.04.03	272	204.32.14	16
93.00.04	275	93.02.19	272	93.04.05	145	204.32.18	16
93.00.10	275	93.02.20	274	93.04.07	272	204.32.20	16
93.00.15	275	93.02.21	272	93.04.09	272	204.32.61	15
93.00.20	144, 270	93.02.22	274	93.04.10	145	204.32.64	16
93.00.22	269	93.02.23	272	93.04.21	272	204.32.68	16
93.00.25	144	93.02.24	274	93.04.23	272	204.32.70	16
93.00.30	145	93.02.25	272	93.05.03	272	204.33.11	15
93.00.32	145	93.02.30	272	93.05.07	272	204.33.14	16
93.00.34	145	93.02.31	273	93.05.09	272	204.33.18	16
93.00.40	271	93.02.32	273	93.05.11	272	204.33.20	16
93.00.42	271	93.02.33	273	93.05.13	272	204.33.61	15



204.33.64	16	224.13.62	14
204.33.68	16	224.67.66	18
204.33.70	16	224.67.68	18
204.34.14	17	225.15.32	19
204.34.18	17	225.15.34	19
204.34.20	17	225.15.36	19
204.34.64	17	225.15.42	20
204.34.68	17	225.15.44	20
204.34.70	17	225.15.46	20
204.35.14	17	225.19.25	25
204.35.18	17	225.19.45	25
204.35.20	17	225.19.60	25
204.35.64	17	255.15.32	19
204.35.68	17	255.15.34	19
204.35.70	17	255.15.36	19
204.67.12	18	255.15.42	20
204.67.16	18	255.15.44	20
204.67.18	18	255.15.46	20
205.15.74	20	909.81.01	80
205.18.70	21		
205.18.71	21		
213.02.14	10		
213.03.14	10		
213.04.14	11		
213.05.14	11		
213.06.14	11		
213.07.14	11		
213.50.14	13		
213.50.17	13		
213.51.14	13		
213.51.17	13		
214.13.12	14		
214.32.11	15		
214.32.14	16		
214.32.18	16		
214.32.20	16		
214.33.11	15		
214.33.14	16		
214.33.18	16		
214.33.20	16		
214.34.14	17		
214.34.18	17		
214.34.20	17		
214.35.14	17		
214.35.18	17		
214.35.20	17		
214.67.12	18		
214.67.16	18		
214.67.18	18		



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