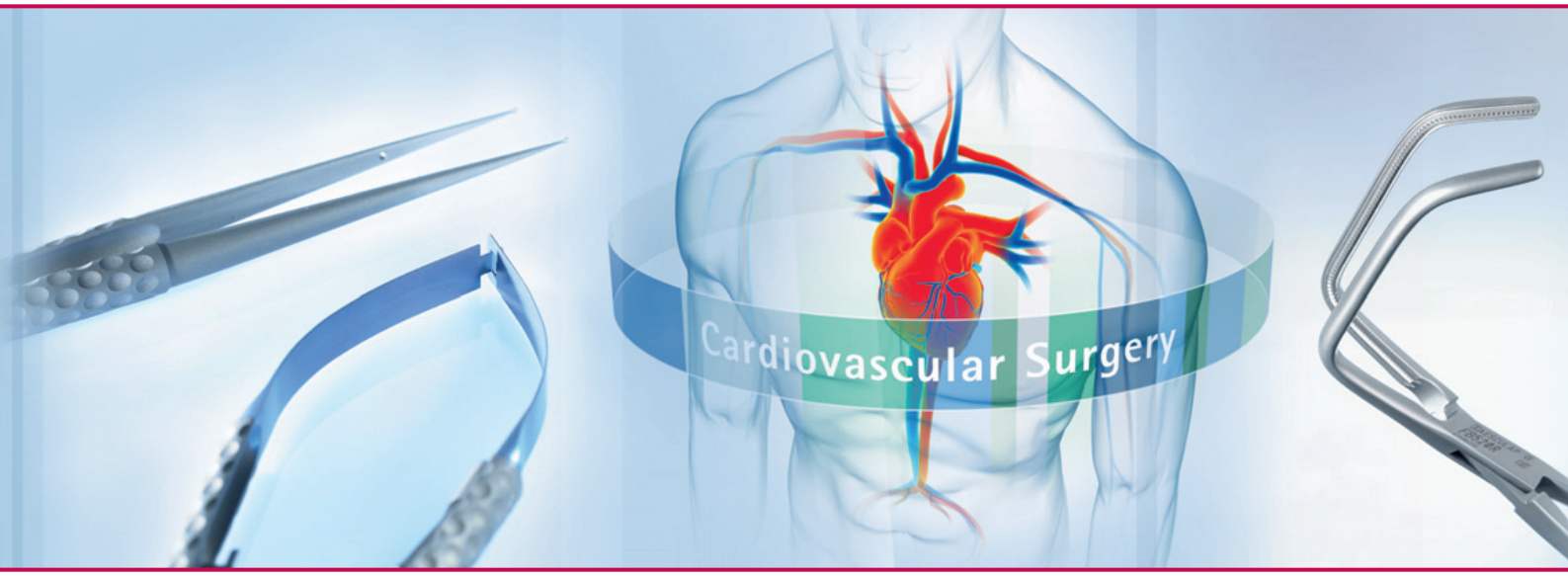
Aesculap Surgical Instruments

Cardiovascular and Thoracic Surgery
Main Catalog



Think Surgical Instruments. Think Aesculap.

B BRAUN
SHARING EXPERTISE

Think Aesculap.

Profound knowledge derives from appreciating the significance of individual pieces of knowledge or experience and fitting them together into a coherent network. A principle B. Braun has been following consistently for more than 160 years, clearly reflected in its corporate claim: "Sharing Expertise". Sharing knowledge across all company divisions creates a broader, sounder knowledge base for everyone involved, resulting in far sighted, detailed solutions and maximum safety. For the benefit of the patient and in the interests of the user.

With over 140 years of experience in the surgical instrument sector, the Aesculap Division is a competent partner for this interdisciplinary knowledge sharing process.

The Aesculap brand represents a varied spectrum that intelligently and economically combines high quality products with process-orientated services. Aesculap is a reliable and accepted partner for the entire surgical process in the hospital.

Aesculap owes its standing among the best in the business to its employees, who, searching for the best possible solution, are never satisfied with their initial idea. Who repeatedly examine, question and optimize every development.

Thus, Aesculap is much more than a supplier of high precision surgical instruments: a partner who listens carefully and contributes ideas, who understands the customers' needs and requirements and provides for them on a high level. From products to services and seminars for all areas of activity within the hospital.



Think Quality

Think Partnership



I treat contracts like a partnership: based on mutual trust and respect.

Think Partnership. Think Aesculap.

Think Competence



The Aesculap Information Center in Tuttlingen is unique. Nowhere else in the world could I advise my customers so competently and offer such choice.

Think Competence. Think Aesculap.



Our instruments are held in high esteem by surgeons all over the world. I know why this is and I make sure it stays that way.

Think Quality. Think Aesculap.

People I talk to can be critical at first: high quality, but still an economically sensible solution?
Then I simply let the facts speak for themselves.

Think Economy. Think Aesculap.



Think Economy

Think Service



Sometimes it's the minor details we provide that make the process run smoothly. The main thing is, everything works and everyone is happy.

Think Service. Think Aesculap.

Think Innovation



Each new product is like your own baby. You lovingly take care of it until it grows up and leaves home.

Think Innovation. Think Aesculap.

Think Aesculap.

Profundes Wissen setzt die Vernetzung von Kenntnissen und Erfahrungen sowie deren folgerichtige Bewertung voraus. Ein Prinzip, dem B. Braun seit über 160 Jahren konsequent folgt und welches sich daher auch in der Aussage „Sharing Expertise" ausdrücklich widerspiegelt. Ein Wissensaustausch über alle Sparten des Konzerns hinweg schafft eine breitere und somit fundiertere Wissensbasis für alle Beteiligten. Das Ergebnis sind bis ins Detail durchdachte, weitsichtige Lösungen und ein Höchstmaß an Sicherheit. Zum Wohl des Patienten und im Interesse der Anwender.

Mit über 140 Jahren Erfahrung im Segment der chirurgischen Instrumente ist die Sparte Aesculap kompetenter Partner für den interdisziplinären Wissensaustausch.

Die Produktmarke Aesculap steht für ein vielfältiges Leistungsspektrum, das hochwertige Produkte mit prozessorientierten Dienstleistungen intelligent und im Sinne der Wirtschaftlichkeit verknüpft. Aesculap ist ein verlässlicher und akzeptierter Partner für den gesamten chirurgischen Prozessablauf in der Klinik.

Dass Aesculap zu den Besten der Branche gehört, verdankt das Unternehmen seinen Mitarbeiterinnen und Mitarbeitern, die sich auf der Suche nach der bestmöglichen Lösung nie mit der ersten Idee zufrieden geben. Menschen, die jede Entwicklung immer wieder prüfen, hinterfragen und optimieren.

Deshalb ist Aesculap weit mehr als ein Lieferant hochpräziser chirurgischer Instrumente: ein Partner, der genau zuhört und mitdenkt, die Bedürfnisse und Anforderungen seiner Kunden versteht und sie auf hohem Niveau versorgt. Vom Produkt über Dienstleistungen und Seminare für alle Funktionsbereiche.



Think Quality

Think Partnership



Bei Verträgen halte ich es wie in einer Partnerschaft: gegenseitiges Vertrauen und Wertschätzung sind die Basis.

Think Partnership. Think Aesculap.

Think Competence



Das Informations- und Beratungszentrum in Tuttlingen ist weltweit einmalig. An keinem anderen Ort könnte ich so überzeugend und mit einer solchen Auswahl beraten!

Think Competence. Think Aesculap.



Unsere Instrumente werden von Chirurgen auf der ganzen Welt geschätzt. Ich weiß, warum das so ist und sorge dafür, dass es so bleibt.

Think Quality. Think Aesculap.

Am Anfang sind meine Gesprächspartner manchmal skeptisch: hohe Qualität und trotzdem eine wirtschaftlich sinnvolle Lösung?
Dann lasse ich einfach Fakten sprechen.

Think Economy. Think Aesculap.



Think Economy

Think Service



Manchmal sorgen wir auch mit Kleinigkeiten für einen reibungslosen Prozess. Hauptsache alles läuft und alle sind zufrieden.

Think Service. Think Aesculap.

Think Innovation



Jedes neue Produkt ist wie ein eigenes Baby. Man kümmert sich liebevoll darum, bis es irgendwann das Haus verlässt.

Think Innovation. Think Aesculap.

Table of Contents – Inhaltsübersicht

Pages
Seiten

Content
Inhalt

Acculan 3Ti



Power Systems
Acculan 3Ti Sternum Saw
Motorensystem
Acculan 3Ti Sternumsäge
001 - 004

TITANIUM



TITANIUM Instruments
TITANIUM Micro Instruments, TITANIUM Vascular Clamps
TITANIUM Instrumente
TITANIUM Mikro-Instrumente, TITANIUM Gefäßklemmen
005 - 030

Micro



Micro Instruments
Micro Scissors, Micro Forceps, Micro Needle Holders,
Sutures for Heart Surgery
Mikro-Instrumente
Mikro-Scheren, Mikro-Pinzetten, Mikro-Nadelhalter,
Nahtmaterial für die Herzchirurgie
031 - 096

Vascular Gefäß



Vascular Instruments
Titanium Ligating Clips, Vascular Clips, Bulldog Clamps,
Atraumatic Vascular Clamps, Vascular Prostheses, Dissectors
Gefäßinstrumente
Titan Ligaturclips, Gefäßclips, Bulldogklemmen,
Atraumatische Gefäßklemmen, Gefäßprothesen, Dissektoren
097 - 230

SUSI



SUSI® – Single Use Surgical Instruments
SUSI® Cardiac Pacemaker Set, SUSI® Thorax Drainage Set
SUSI® – Single Use Surgical Instruments
SUSI® Herzschrittmacher-Set, SUSI® Thorax Drainage Set
231 - 236

Endo



Endoscopy
Thoracoscopy, Videoendoscopic Vascular Surgery,
Endoscopic Units
Endoskopie
Thorakoskopie, Videoendoskopische Gefäßchirurgie,
Endoskopie-Geräte
237 - 292

Pages
Seiten

Table of Contents – Inhaltsübersicht

293 - 334

Electrosurgery
Bipolar Instruments, Monopolar Instruments,
Electrosurgical Unit, Accessories
Elektrochirurgie
Bipolare Instrumente, Monopolare Instrumente,
Elektrochirurgie-Gerät, Zubehör



HF

335 - 380

Bone Instruments
Raspatories, Bone Curettes, Bone Cutting Forceps,
Bone Rongeurs, Wire Instruments
Knocheninstrumente
Raspatorien, Scharfe Löffel, Knochensplitterzangen,
Hohlmeißelzangen, Draht-Instrumente



Bone
Knochen

381 - 462

Retraction Systems, Retractors, Hooks
Rib Retractors, Sternum Retractors,
Aorta, Valve and Atrium Retractors,
Self Retaining Retractors, Abdominal Retractors
Sperrersysteme, Spreizer und Wundhaken
Rippensperrer, Sternum Sperrer, Aorta-, Klappen- und
Atriumhaken, Wundspreizer, Bauchdeckenhaken



Retractors
Sperrer

463 - 654

General Surgical Instruments
Patient Preparation, Scalpels, Scissors, Forceps,
Clamps, Needle Holders, Sutures, Suction
Klassisches Chirurgisches Instrumentarium
Patienten-Vorbereitung, Skalpelle, Scheren, Pinzetten,
Klemmen, Nadelhalter, Nahtmaterial, Sauger



General
Allgemein

655 - 668

Reprocessing, Care & Maintenance
Container
Aufbereitung, Pflege & Reinigungshinweise
Container



Reprocessing
Aufbereitung

669 - 685
686 - 701
702 - 717

Alphabetical Index
Alphabetischer Index
Numerical Index
Nummerischer Index

A - Z
0 - 9

Acculan 3Ti



Power Systems
Motorensysteme

Sterility – as simple as slipping in and out of gloves
Sterilität – so einfach wie Handschuhe an- und ausziehen



The principle: a non-sterile battery

Aesculap pioneered the use of non-sterile rechargeable batteries that never get into contact with the sterile external surfaces of the machine. Non-sterilizable batteries offer the advantages of a longer service life and maximum reliability.

Consequently this design concept has now been widely accepted and emulated.

Das Prinzip: ein Akku, der nicht sterilisiert werden muss

Aesculap war Pionier bei der Einführung eines unsterilen Akkus, der nicht mit dem sterilen Äußeren der Maschine in Kontakt kommt. Durch den Wegfall der Sterilisation errreichen die Akkus eine höhere Lebensdauer bei maximaler Zuverlässigkeit.

Ein Konzept, das sich heute aufgrund seiner Vorteile durchgesetzt hat.

For further details see brochure No. **031002**

Weitere Informationen finden Sie in unserem Prospekt **031001**



The Difference is in the detail

Acculan® 3Ti avoids sterilization not only of the temperature-sensitive battery cells, but also of the equally vulnerable control electronics by integrating it in the battery unit.

The new Acculan® 3Ti represents the consistent development of our philosophy.

Der Unterschied liegt im Detail

Acculan® 3Ti vermeidet nicht nur die Sterilisation der temperaturempfindlichen Akkuzellen, sondern auch die der kompletten Steuerelektronik, da diese ebenfalls in den Akku integriert ist.

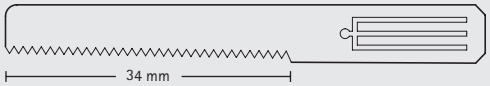
Mit den neuen Acculan® 3Ti wird unsere Philosopie konsequent weiterverfolgt.



GA674
Acculan® 3Ti Reciprocating saw
supplied with battery, lid and sterile funnel
Acculan® 3Ti Stichsäge
Lieferung inkl. Akku, Verschlussdeckel und Steriltrichter



GB436R
Protection guide for use with GA674 and saw blade GC761R
Stützfuß zur Verwendung mit GA674 und Sägeblatt GC761R



GC761R
Sternotomy saw blade for GA674
Sternumsägeblatt für GA674



GA677
Acculan® 3Ti charger
Acculan® 3Ti Ladegerät



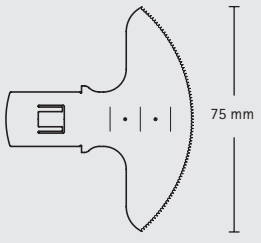
GA673
Acculan® 3Ti Oscillating saw
supplied with battery, lid and sterile funnel
Acculan® 3Ti Oszillierende Säge
Lieferung inkl. Akku, Verschlussdeckel und Steriltrichter



GA676
Acculan® 3Ti NiMH battery
Acculan® 3Ti NiMH Akku



GA675
Acculan® 3Ti lid
Acculan® 3Ti Verschlussdeckel

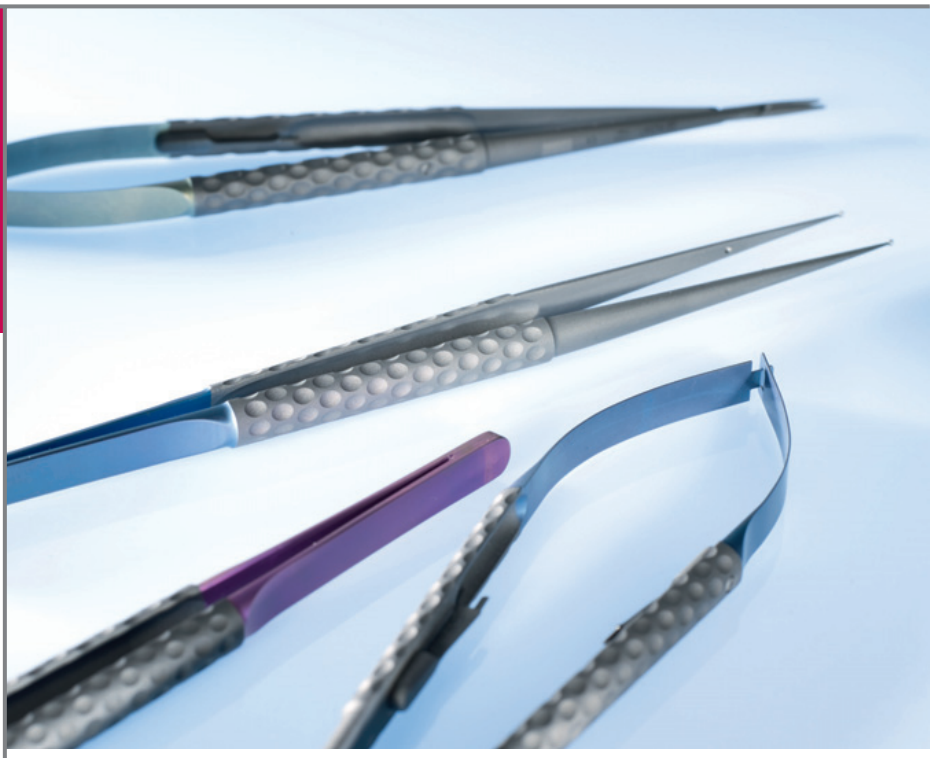


GC671R
Saw blade for GA673
Sägeblatt für GA673



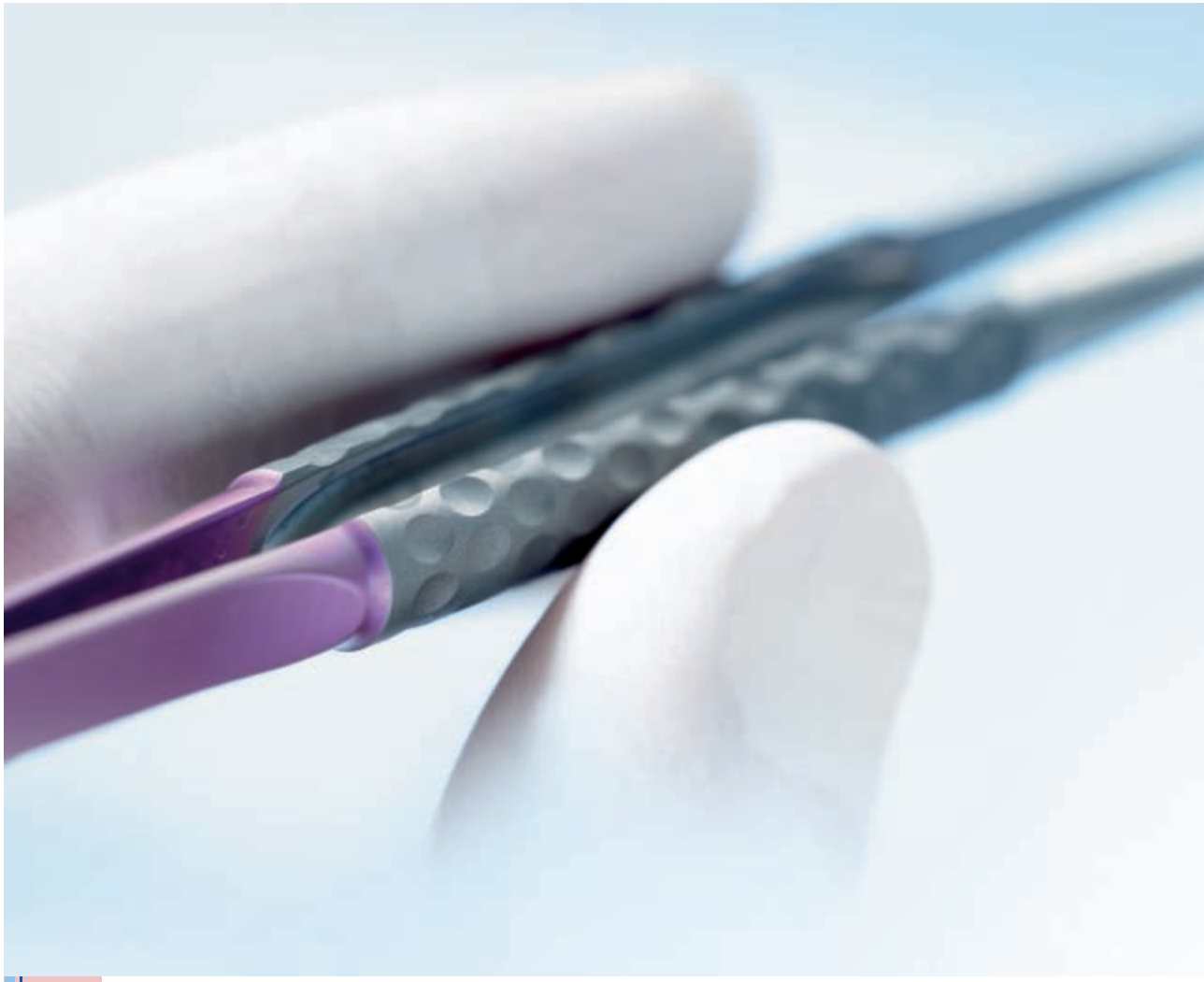
GA678
Acculan® 3Ti sterile funnel
Acculan® 3Ti Steriltrichter

TITANIUM



TITANIUM Instruments
TITANIUM Instrumente

Developed from the best of our ideas: TITANIUM Micro Instruments
Entwickelt aus unseren besten Ideen: TITANIUM Mikro-Instrumente



Fatigue-free lightness:
Aesculap TITANIUM micro instruments.

- The extremely light TITANIUM material is an advantage for lengthy cardiac and vascular operations. This helps to carry on operating over longer time periods with minimum fatigue.
- The non-magnetic material makes working with particularly fine needles easier for you.

Ermüdungsfreie Leichtigkeit:
Aesculap TITANIUM Mikro-Instrumente.

- Das extrem leichte Titan kommt Ihnen vor allem bei lang andauernde Herz- und Gefäßoperationen entgegen. Wir unterstützen Sie dabei, möglichst ermüdungsfrei über längere Zeiträume hinweg zu arbeiten.
- Im Umgang mit besonders feinen Nadeln erleichtert Ihnen der nicht-magnetische Werkstoff das Arbeiten.



For further details see
brochure No. **C23911**

Weitere Informationen finden
Sie in unserem Prospekt **C23911**

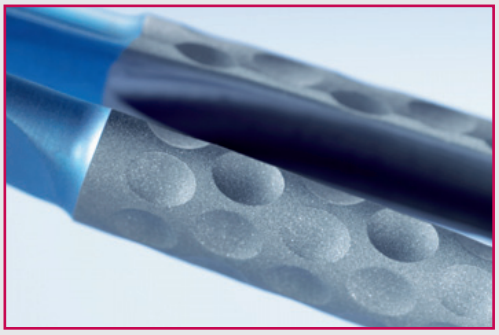


Non-reflecting surface finish.

The non-reflecting surface finish provides optimal glare reduction for the end user.

Reflektionsarmes Oberflächendesign.

Die speziell verarbeitete Instrumentenoberfläche absorbiert das Operationslicht und sorgt so für ein angenehmes Operieren ohne Lichtreflektion.



Incomparable operating sensitivity: the Aesculap golfball design.

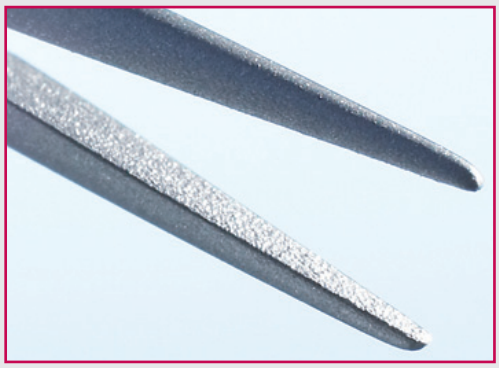
With its unique handling properties, the exclusive Aesculap golfball design is becoming more and more popular among surgeons.

Feel the difference. Ergonomic and stable, the handle design helps to combat fatigue. The unique geometry of the handle grants a previously unattainable degree of freedom in instrument handling.

Unvergleichliches Operationsgefühl: Aesculap Golfball-Design.

Das exklusive Aesculap Golfball-Design findet dank des angenehmen Handlings immer mehr Freunde unter Chirurgen.

Achten Sie auf Ihr Gefühl. Der Griff ist nicht nur ergonomisch und sicher, sondern er unterstützt Sie auch im ermüdungsfreien Arbeiten. Mit der ausgewogenen Griff-Geometrie des Instruments eröffnen Sie sich beim Handling einen nie dagewesenen Freiheitsgrad.

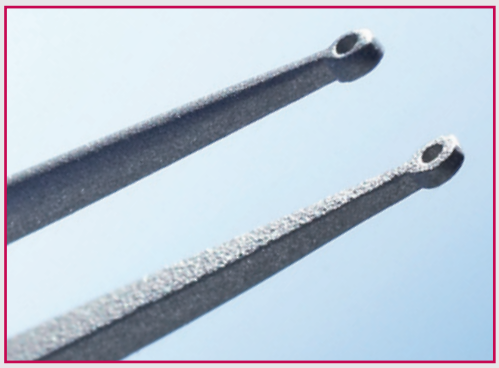


DIA DUST®

Exceptional grasping qualities: Aesculap DIA DUST®

All needle holder and forcep jaws are coated with Aesculap **DIA DUST®**. This coating ensures that the inner surfaces provide the best possible performance in hardness and wear resistance.

The texture of the jaws greatly increases its surface area, allowing you to grasp fine needles, sutures and soft tissue safely and securely. The needle quickly aligns itself in an ideal position in the rough surface. This results in a perfect grip that quite simply prevents any needle slippage.



DIA DUST®

Außergewöhnlicher Grip: Aesculap DIA DUST®

Im Arbeitsende sind alle Nadelhalter und Pinzetten mit Aesculap **DIA DUST®** beschichtet. Diese Beschichtung bringt für die Maulinnenflächen beste Ergebnisse in Härte und Verschleißfestigkeit.

Die ungleichmäßige Oberflächenbeschaffenheit führt zu einer starken Oberflächenvergrößerung. Damit können Sie feine Nadeln, Nahtmaterialien und Weichgewebe sicher fassen. Zudem findet die Nadel in der rauen Oberfläche schnell ihre ideale Position. Dies führt zu einem perfektem Grip, der ein Wegrutschen oder Kippen der Nadel ganz einfach verhindert.



Unmistakable identification: the Aesculap color code.

The unique color coding means that you automatically pick up the right instrument.

Unverwechselbare Kennzeichnung: Aesculap Color Code.

Mit der intelligenten Farbcodierung greifen Sie automatisch und sicher zum richtigen Instrument.

Micro Forceps

The color coding enables you to identify the fine working end rapidly and reliably at a glance.

Mikro-Pinzetten

Mit Hilfe der Farbcodierung identifizieren Sie das feine Arbeitsende rasch und sicher auf einen Blick.

Aquamarine: Micro forceps with ring jaw		**Aquamarin:** Mikro-Pinzetten mit Ring
Citrine: Micro forceps with plateau jaw		**Citrin:** Mikro-Pinzetten mit Plateau
Purpurite: Micro forceps with DeBakey jaw		**Purpurit:** Mikro-Pinzetten DeBakey

Micro Needle Holders

Using the color coding found on the spring, you quickly find the right needle holder for the suture you are using.

Mikro-Nadelhalter

Über die Farbcodierung auf der Feder finden Sie schnell den richtigen Nadelhalter für das jeweilige Nahtmaterial.

Aquamarine: For suture size 5/0 and smaller		**Aquamarin:** Für Nahtmaterial 5/0 und kleiner
Citrine: For suture size 7/0 and smaller		**Citrin:** Für Nahtmaterial 7/0 und kleiner

In addition to color coding, all needle holders are also labeled with their recommended suture size.

Zusätzlich zur Farbcodierung sind alle Nadelhalter mit der empfohlenen Nahtmaterialgröße beschriftet.



1/1

FM317T-FM337T

185 mm, 7 1/4"



1/1

FM318T-FM338T

210 mm, 8 1/4"

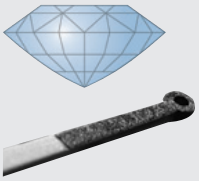


1/1

FM319T-FM339T

230 mm, 9"

DIA DUST®



All needle holder and forceps jaws are coated with Aesculap DIA DUST®. This coating ensures that the inner surfaces provide the best possible performance in hardness and wear resistance. The texture of the jaws greatly increases its surface area, allowing you to grasp fine needles, sutures and soft tissue safely and securely. The needle quickly aligns itself in an ideal position in the rough surface. This results in a perfect grip that quite simply prevents any needle slippage.

Die Beschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus unterstützt die Struktur der DIA DUST® Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.

Jaw type Maulform	Diam. of ring: 1 mm, straight Ring-Ø: 1 mm, gerade	Platform tips, straight Fadenplatte, gerade	DeBakey tip, 1 mm DeBakey Zahnung, 1 mm
Total length Gesamtlänge			
185 mm 7 1/4"	FM317T	FM327T	FM337T
210 mm 8 1/4"	FM318T	FM328T	FM338T
230 mm 9"	FM319T	FM329T	FM339T



FM232T-FM258T
185 mm, 7 1/4"

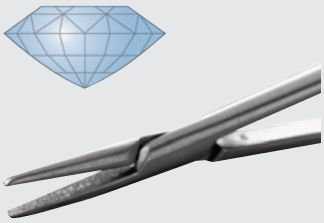


FM233T-FM259T
210 mm, 8 1/4"



FM234T-FM260T
230 mm, 9"

DIA DUST®



All needle holder and forceps jaws are coated with Aesculap DIA DUST®. This coating ensures that the inner surfaces provide the best possible performance in hardness and wear resistance. The texture of the jaws greatly increases its surface area, allowing you to grasp fine needles, sutures and soft tissue safely and securely. The needle quickly aligns itself in an ideal position in the rough surface. This results in a perfect grip that quite simply prevents any needle slippage.

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with catch
mit Sperre

Total length Gesamtlänge	1/1 Suture size Nahtmaterialgröße 7/0 and smaller 7/0 und kleiner	1/1 5/0 and smaller 5/0 und kleiner
185 mm 7 1/4"	FM258T	FM238T
210 mm 8 1/4"	FM259T	FM239T
230 mm 9"	FM260T	FM240T



without catch
ohne Sperre

Total length Gesamtlänge	1/1 Suture size Nahtmaterialgröße 7/0 and smaller 7/0 und kleiner	1/1 5/0 and smaller 5/0 und kleiner
185 mm 7 1/4"	FM252T	FM232T
210 mm 8 1/4"	FM253T	FM233T
230 mm 9"	FM254T	FM234T

Non-reflecting surface finish

The non-reflecting surface finish provides optimal glare reduction for the end user.

Reflektionsarmes Oberflächendesign

Die speziell verarbeitete Instrumentenoberfläche absorbiert das Operationslicht und sorgt so für ein angenehmes Operieren ohne Lichtreflektion.



Blue rings

Blue rings for definite identification of an Aesculap Titanium Instrument.

Blaue Ringe

Blaue Ringe zur eindeutigen Identifikation eines Aesculap Titanium-Instruments.

Fatigue-free lightness

The extremely light TITANIUM material is an advantage for lengthy cardiac and vascular operations. This helps to carry on operating over longer time periods with minimum fatigue.

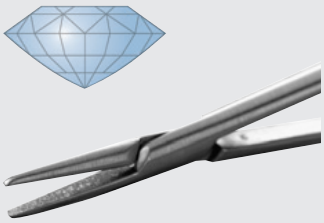
The low weight of these instruments supports an atraumatic operation and prevents the vessels from getting damaged.

Ermüdungsfreie Leichtigkeit

Das extrem leichte Titan kommt dem Chirurgen vor allem bei lang andauernden Herz- und Gefäßoperationen entgegen. Diese Instrumente unterstützen ihn dabei, möglichst ermüdungsfrei über längere Zeiträume hinweg zu arbeiten.

Das geringe Eigengewicht dieser Instrumente unterstützen ein atraumatisches Operieren und verhindern so das Beschädigen feiner Gefäßstrukturen.

DIA DUST®



All needle holder and forceps jaws are coated with Aesculap DIA DUST®. This coating ensures that the inner surfaces provide the best possible performance in hardness and wear resistance. The texture of the jaws greatly increases its surface area, allowing you to grasp fine needles, sutures and soft tissue safely and securely. The needle quickly aligns itself in an ideal position in the rough surface. This results in a perfect grip that quite simply prevents any needle slippage.

Die Beschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus unterstützt die Struktur der DIA DUST® Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.





BM385T	BM386T	BM387T
160 mm	180 mm	210 mm
6 1/4"	7"	8 1/4"

1/1

RYDER

BM385T–BM387T

Recommended for suture size 5/0 and smaller

Empfohlen für Nahtmaterial 5/0 und kleiner

MILLIMETERS

TITANIUM

ATRAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung

1.5 mm

1/1

FB387T
145 mm
1/1 5 3/4"

1.5 mm

1/1

FB388T
195 mm
1/1 7 3/4"

1.5 mm

1/1

FB389T
240 mm
1/1 9 1/2"

2.5 mm

1/1

FB390T
145 mm
1/1 5 3/4"

2.5 mm

1/1

FB391T
195 mm
1/1 7 3/4"

2.5 mm

1/1

FB392T
240 mm
1/1 9 1/2"



MICRO-ADSON

BD221T

Dissecting forceps

Anatomische Pinzette

120 mm, 4 3/4"



MICRO-ADSON

BD514T

Tissue forceps, delicate

Chirurgische Pinzette, fein

120 mm, 4 3/4"



ADSON

BD516T

Tissue forceps

Chirurgische Pinzette

120 mm, 4 3/4"



GERALD

BD227T

Dissecting forceps

Anatomische Pinzette

170 mm, 6 3/4"



GERALD

BD657T

Tissue forceps

Chirurgische Pinzette

170 mm, 6 3/4"



RESANO

BD715T

Grasping forceps

Fasspinzette

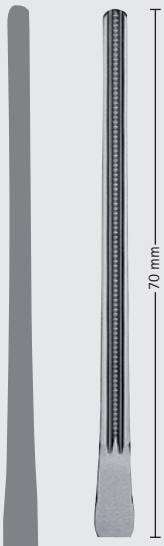
230 mm, 9"

AESCULAP TRAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung





1/1

DE BAKEY

FC320T

230 mm, 9"

ATRAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung



DE BAKEY

FC321T

215 mm, 8 1/2"

ARAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung





FC322T	FC323T
225 mm	245 mm
9"	9 3/4"

DE BAKEY

FC322T–FC323T

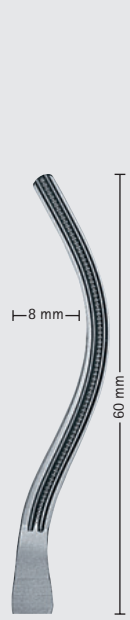
ATRAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung



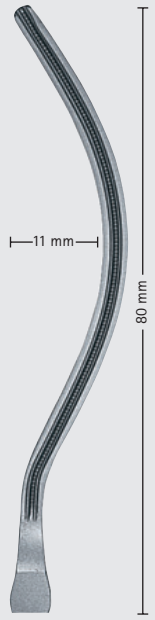




FC324T

220 mm

8 3/4"



FC325T

270 mm

10 3/4"

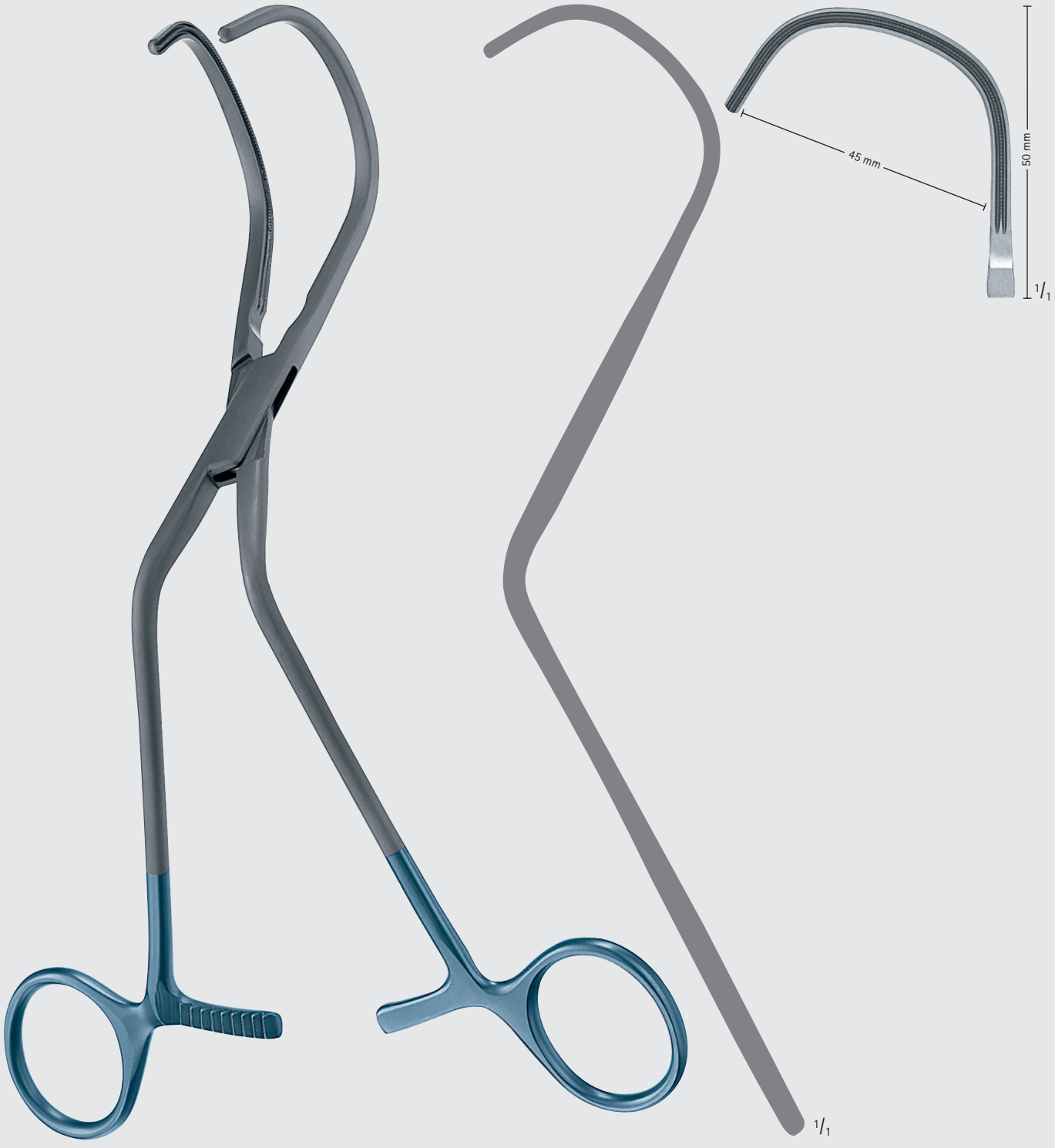
GLOVER

FC324T-FC325T

ATRAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung



LAMBERT-KAY

FC326T

195 mm, 7 3/4"

ATRAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung



DE BAKEY

FC327T–FC328T

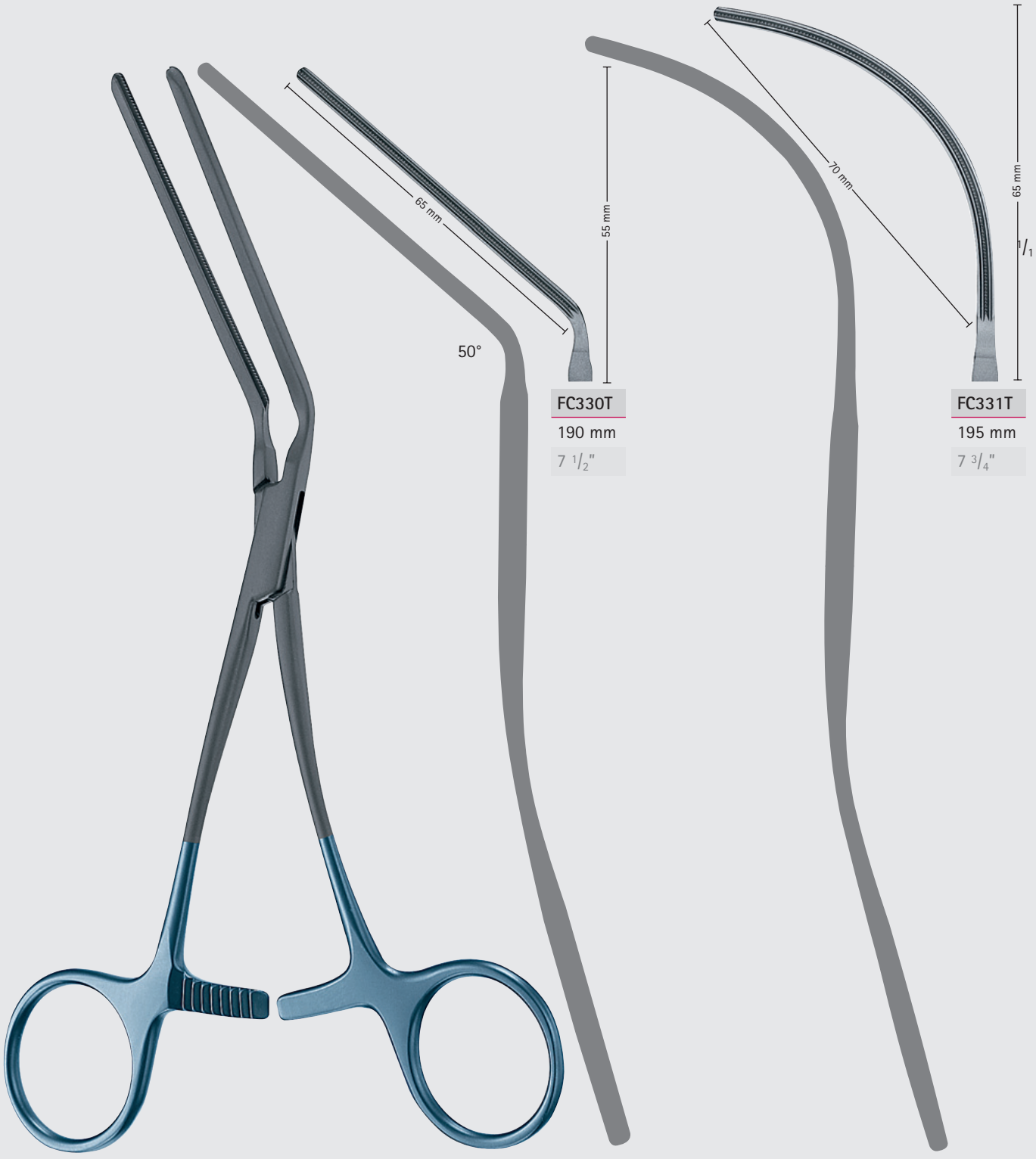


FC327T	FC328T
310 mm	320 mm
12 1/4"	13 1/8"

ARAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung



FC330T
190 mm
7 1/2"

FC331T
195 mm
7 3/4"

DE BAKEY

FC330T–FC331T

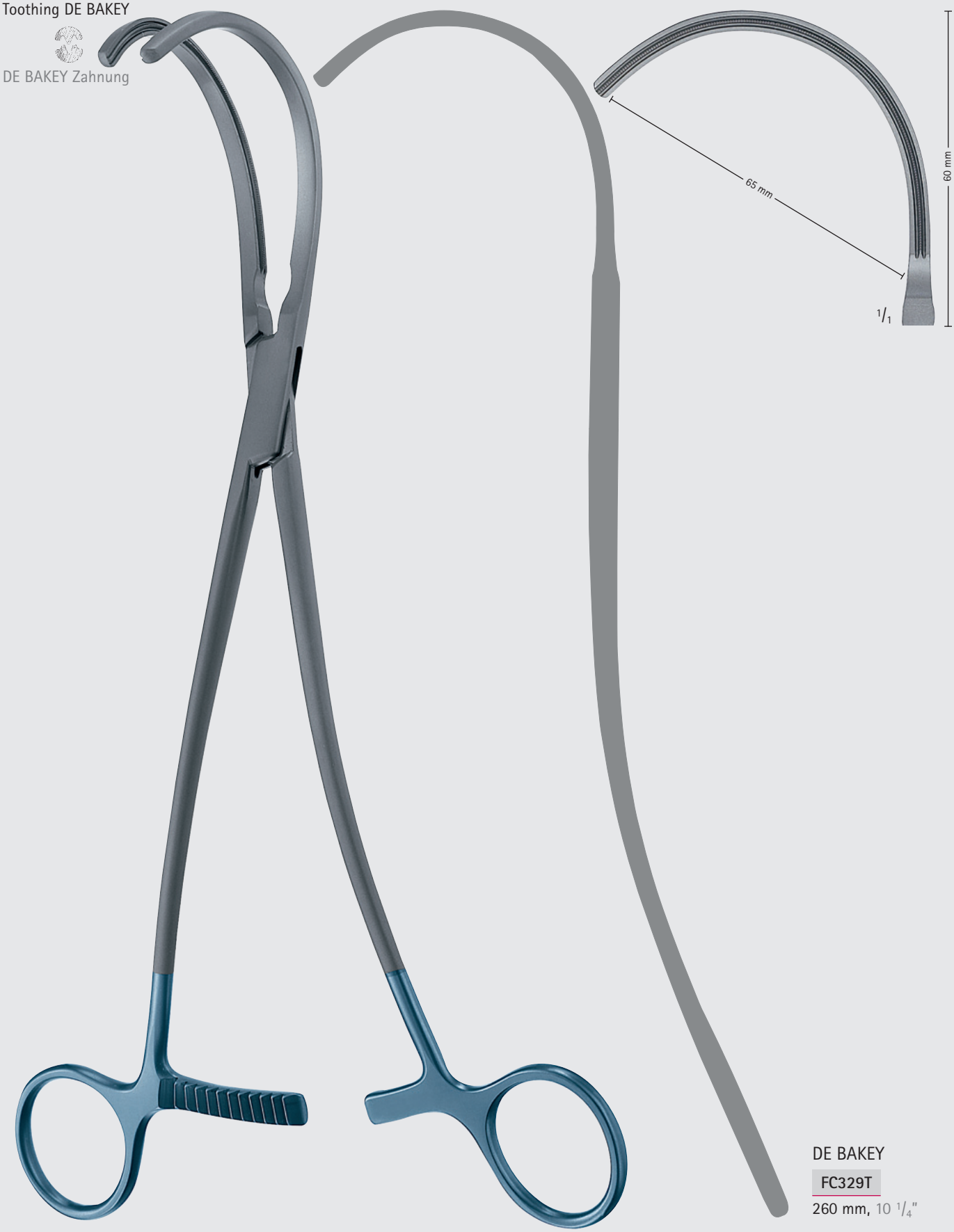
MILLIMETERS

TITANIUM

ATRAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung



DE BAKEY

FC329T

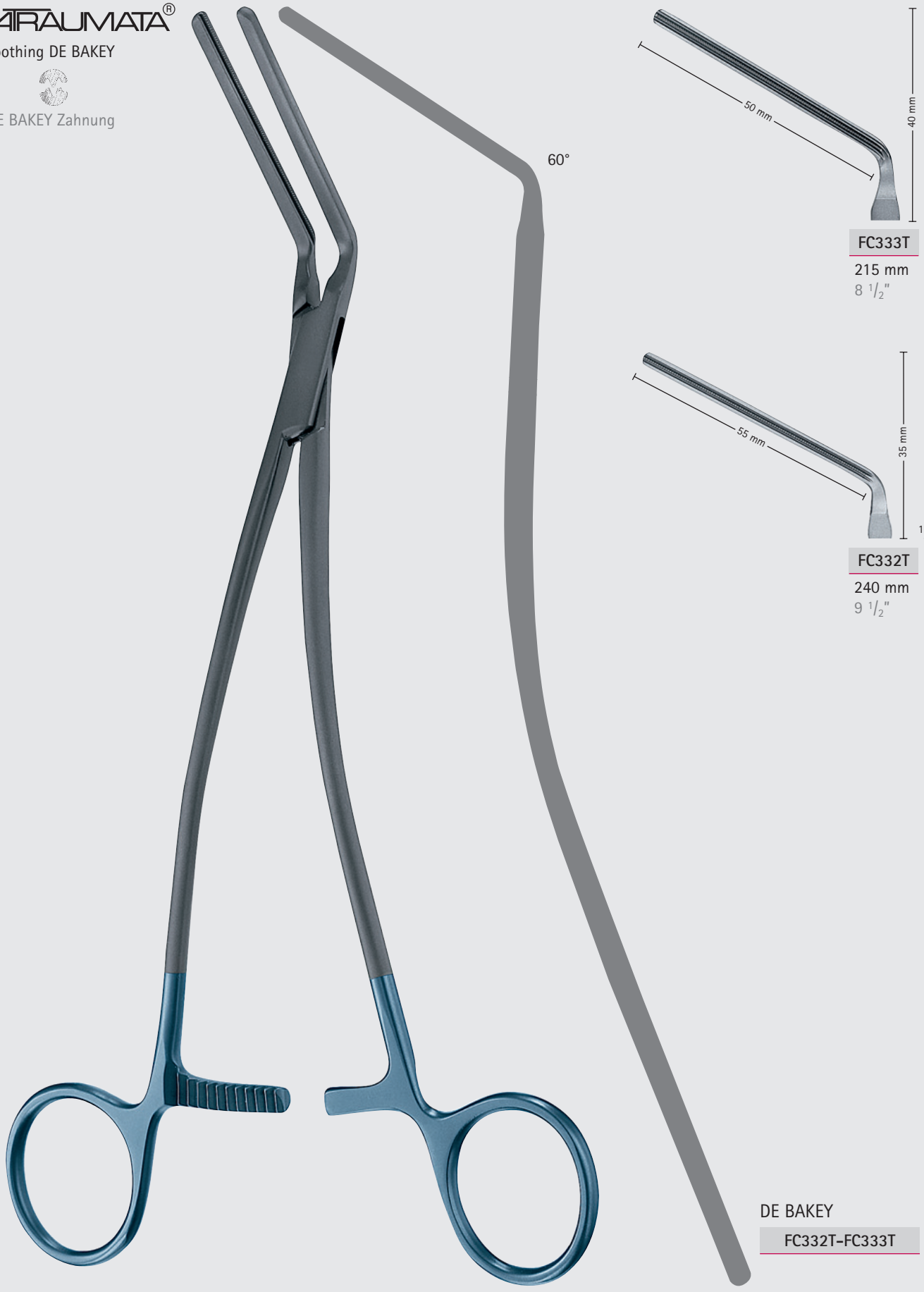
260 mm, 10 1/4"

INCHES

ARAUMATA®

Toothing DE BAKEY

DE BAKEY Zahnung



FC333T

215 mm

8 1/2"

FC332T

240 mm

9 1/2"

DE BAKEY

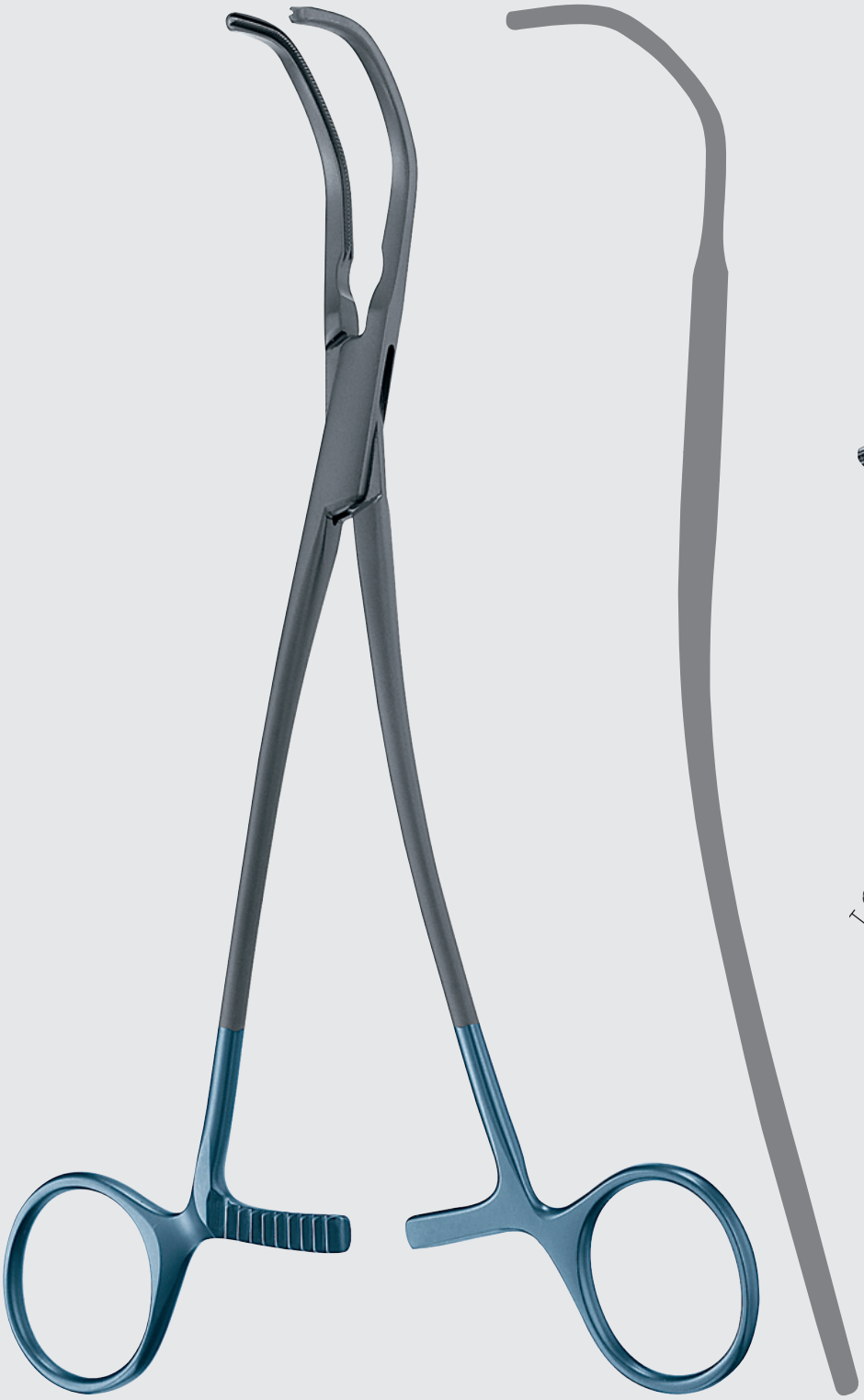
FC332T–FC333T

TITANIUM

ATRAUMATA®

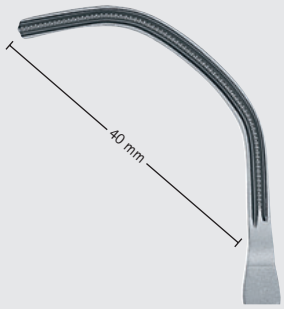
Toothing DE BAKEY

DE BAKEY Zahnung



DE BAKEY-SATINSKY

FC334T-FC336T



FC336T
200 mm
8"



FC335T
245 mm
9 3/4"

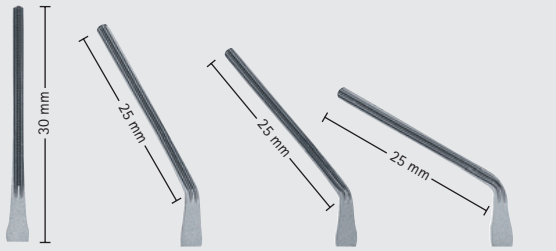


FC334T
250 mm
10"

ATRAUMATA®

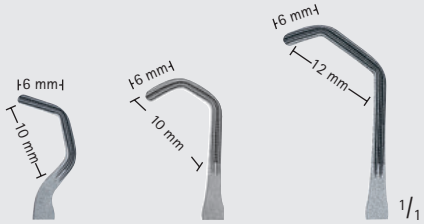
Toothing DE BAKEY

DE BAKEY Zahnung



FC337T	FC338T	FC339T	FC340T
straight gerade	30°	45°	60°
110 mm	110 mm	110 mm	110 mm
4 3/8"	4 3/8"	4 3/8"	4 3/8"



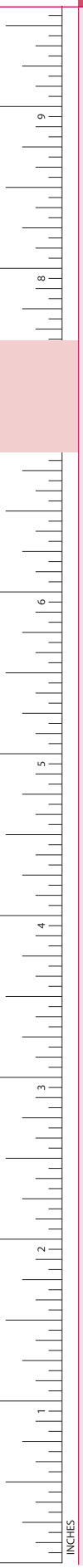


1/1

FC341T	FC342T	FC343T
95 mm	100 mm	100 mm
3 3/4"	4"	4"

DE BAKEY

FC337T-FC343T

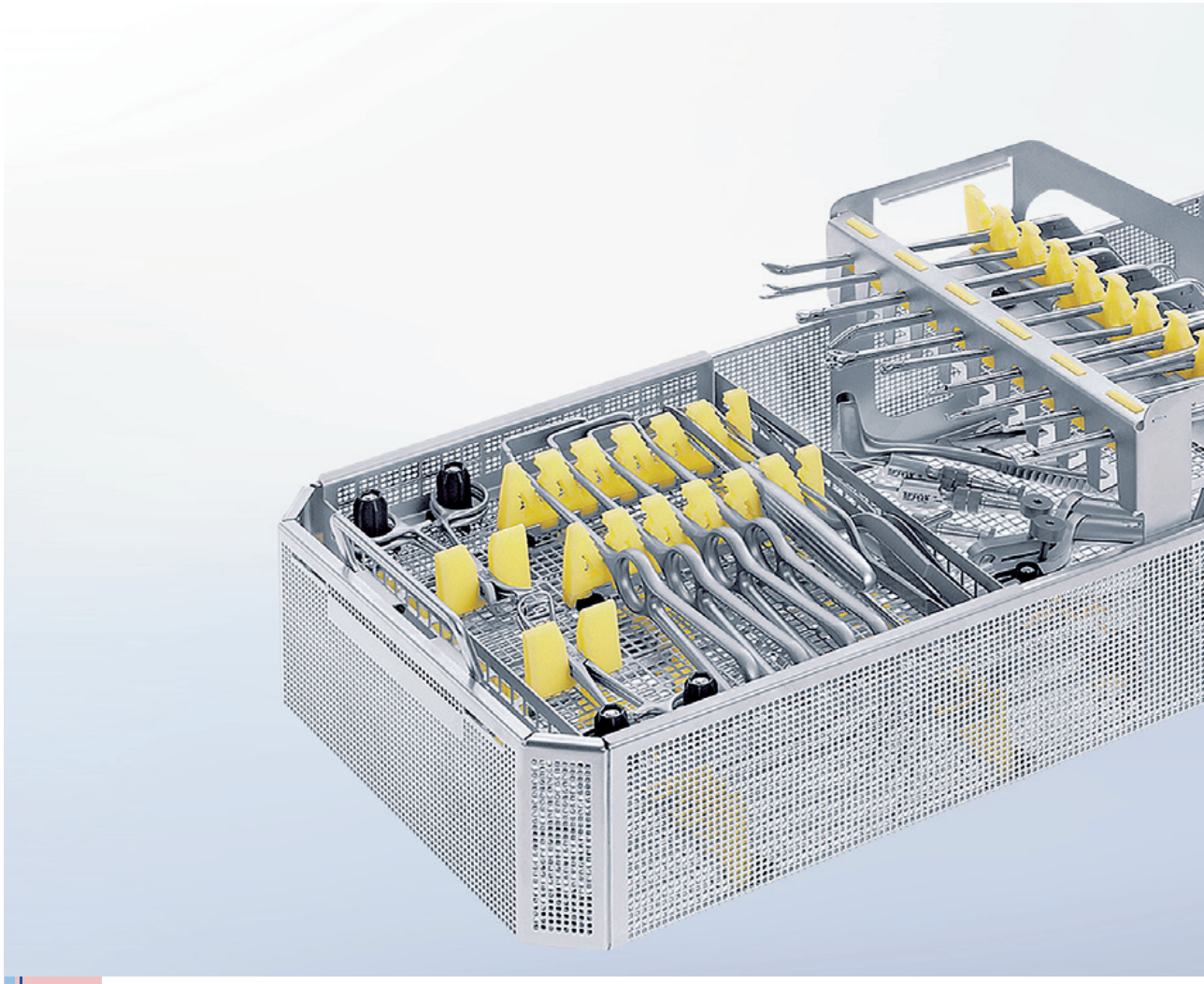

INCHES
1
2
3
4
5
6
8
9

Micro



Micro Instruments
Mikro-Instrumente

Aesculap Instrument Organisation System
Aesculap Instrumenten Organisationssystem

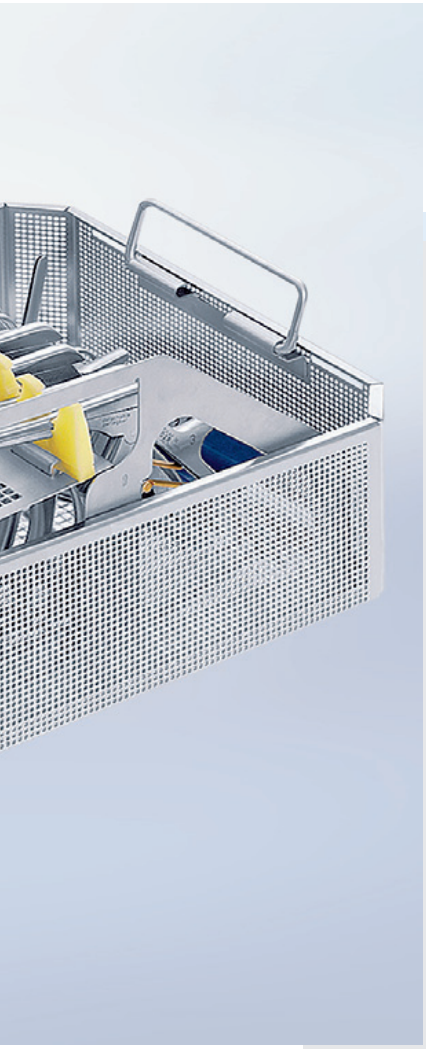


Organisation and Protection of Surgical Instruments

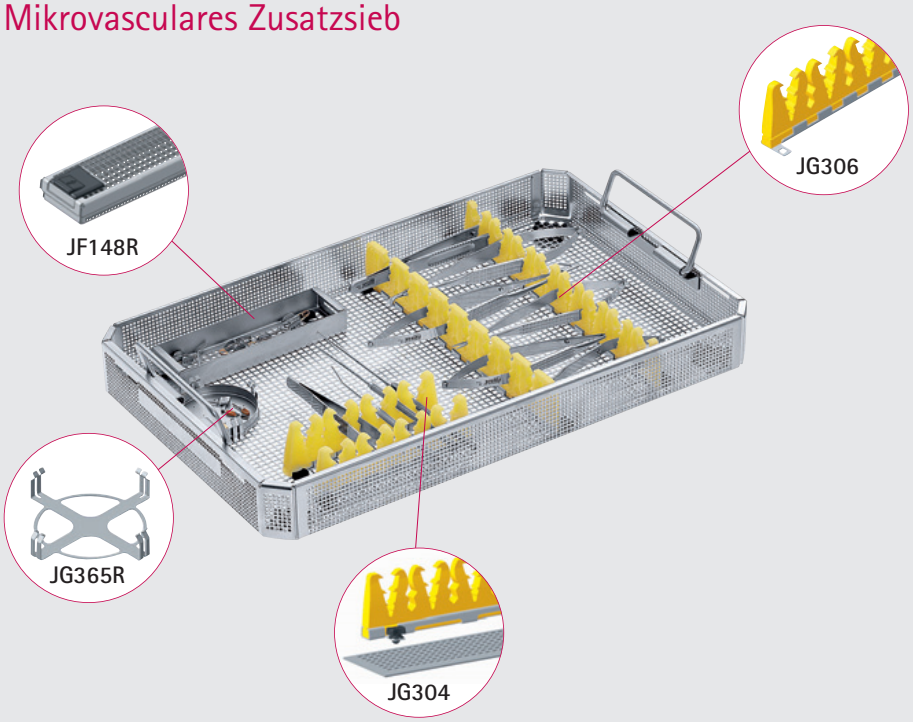
- Surgical instruments are valuable assets for every hospital, which is why they should be processed as efficiently and gently as possible.
- Therefore, protecting the instruments during sterilisation, as well as in transport to sterile supply stores and to the operating room, is of crucial importance.
- The Aesculap Organisation System for instrument trays facilitates the safe storage especially of delicate instruments and small items.

Organisation und Schutz chirurgischer Instrumente

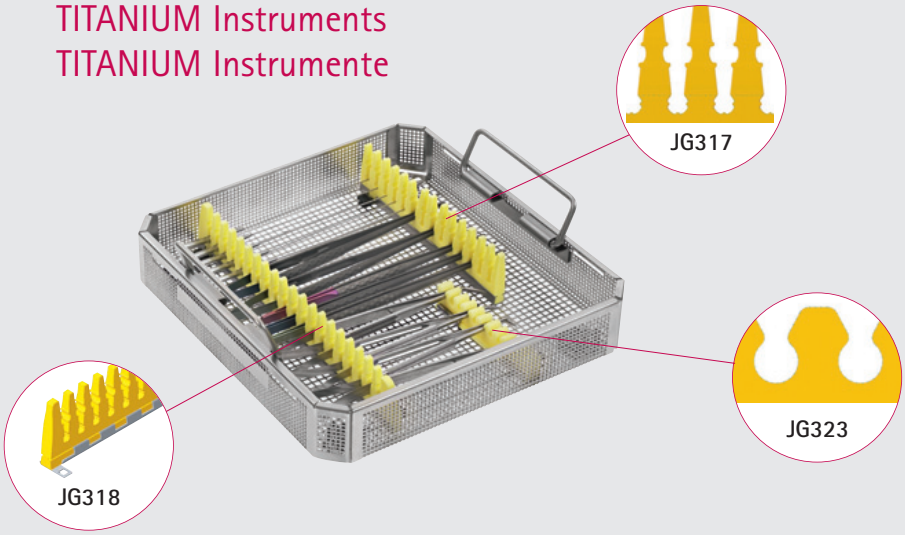
- Chirurgische Instrumente stellen ein wertvolles Kapital für jedes Krankenhaus dar und sollen daher auch so effizient und schonend wie möglich aufbereitet werden.
- Der Schutz der Instrumente während der Sterilisation und beim Transport in das Sterilgutlager und in den OP sind dabei von zentraler Bedeutung.
- Das Aesculap Organisationssystem für Instrumentensiebe erleichtert die sichere Lagerung insbesondere von empfindlichen Instrumenten und Kleinteilen.



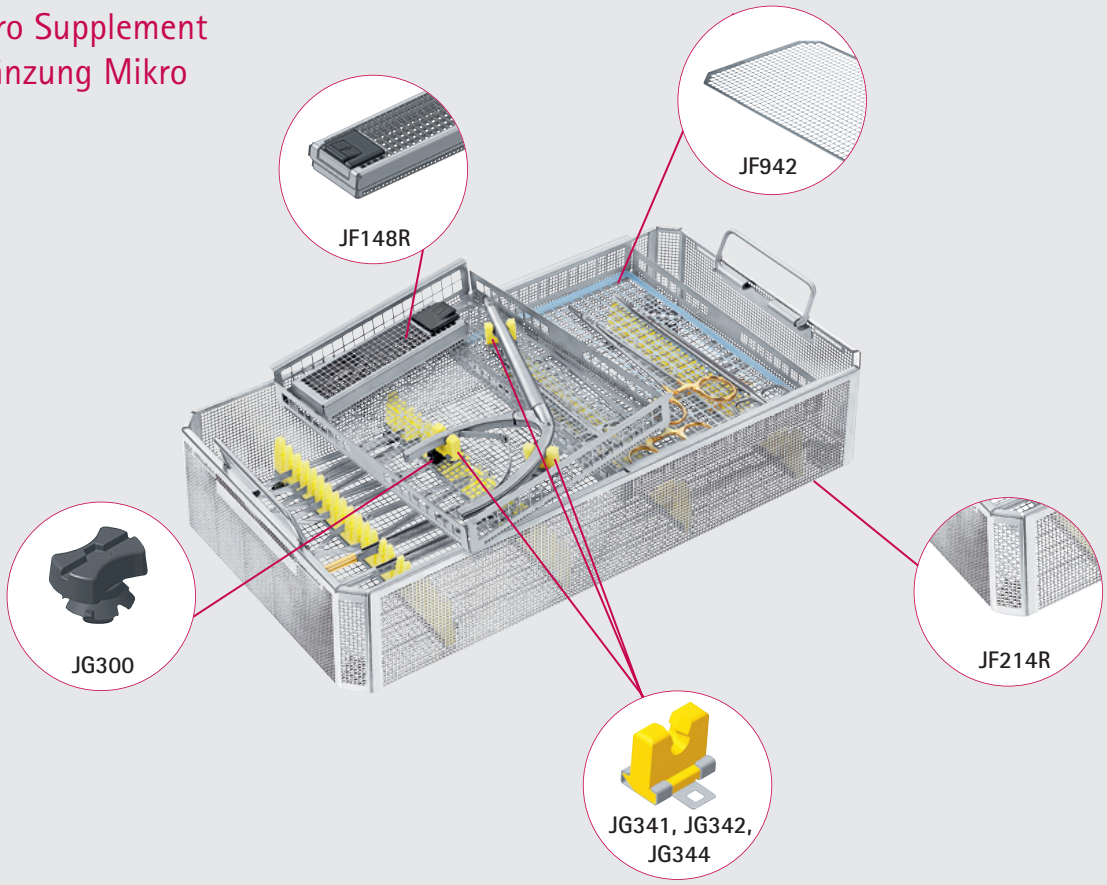
Microvascular Tray Accessory
Mikrovasculares Zusatzsieb



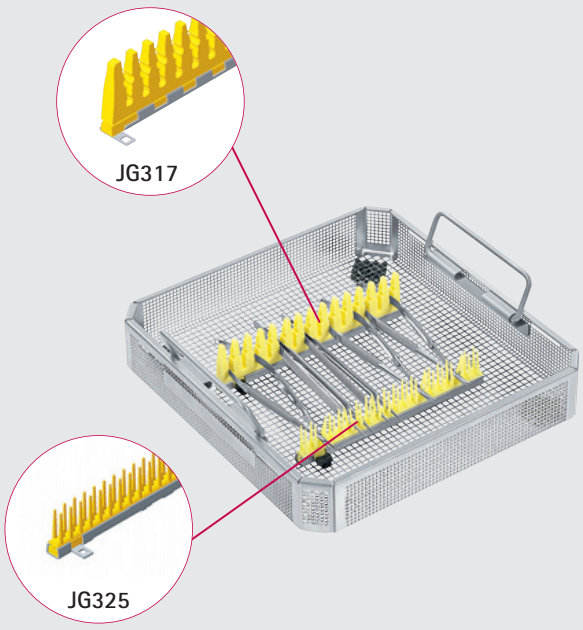
TITANIUM Instruments
TITANIUM Instrumente



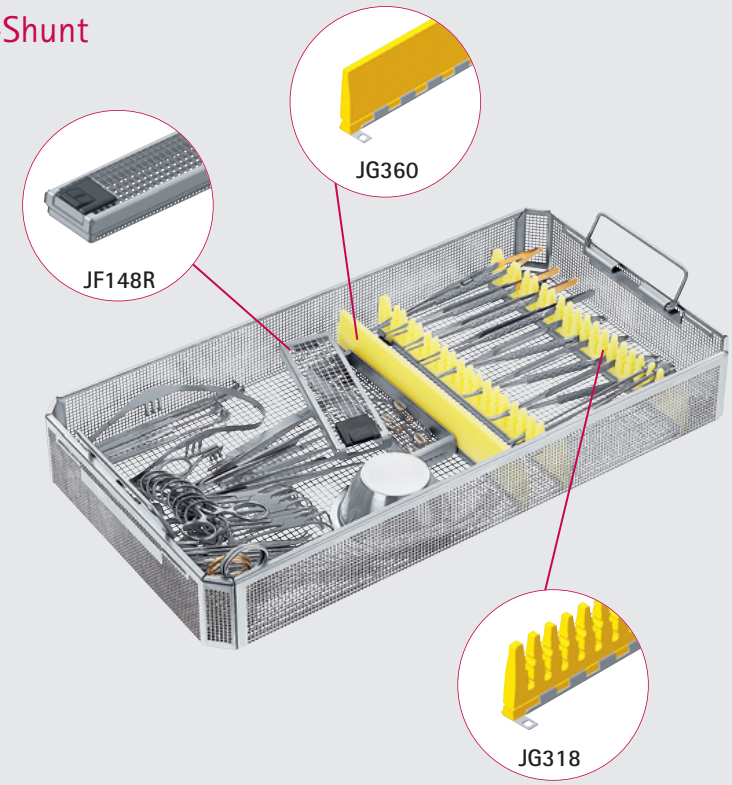
CABG Micro Supplement
CABG Ergänzung Mikro



Micro Instruments
Mikro-Instrumente



AV-Shunt
AV-Shunt



The trick is: Individual storage devices can be fastened from above or from the base of the tray using a simple clamp, without any laborious fastening procedure involving screws and nuts.

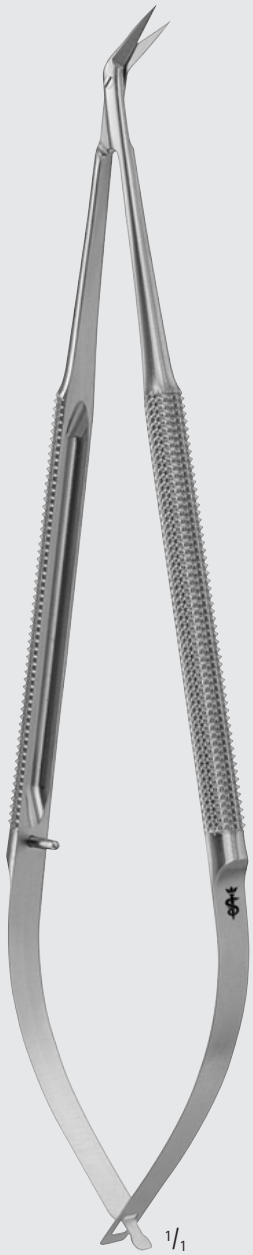
Der besondere Kniff: Die Befestigung der einzelnen Lagerungen ist entweder von oben möglich oder mit Hilfe einer einfachen Klammer von der Unterseite des Siebkorbs. Die umständliche Fixierung mit Schrauben und Muttern entfällt.



For further details see brochure **C81902.**

Weitere Informationen finden Sie in unserem Prospekt **C81901.**

- Instrument length depends on the blade length or angle
- Die Instrumentenlänge variiert in Abhängigkeit der Blattlänge oder des Blattwinkels.

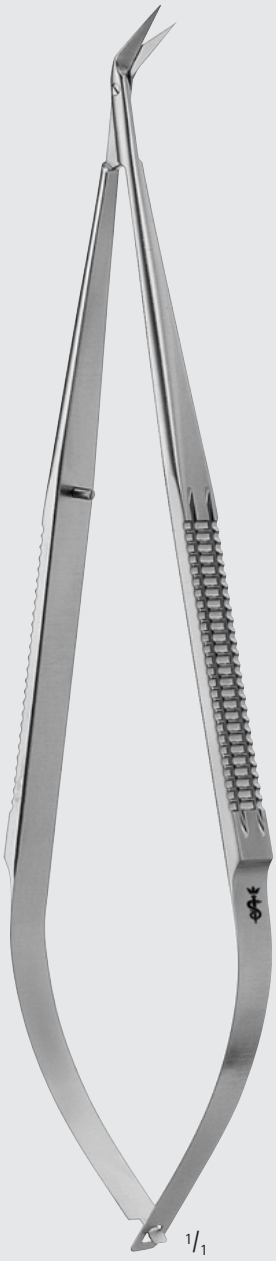


FM476R-FM508R

165 mm, 6 1/2"

	25°	45°	60°	90°	125°	straight gerade	curved on flat aufgebogen
Fine blade 15 mm Feines Blatt 15 mm	 FM476R	 FM477R	 FM478R	 FM479R	 1/1 FM480R		
Delicate blade 10 mm Sehr feines Blatt 10 mm	 FM482R	 FM483R	 FM484R	 FM485R	 FM486R	 FM488R	 1/1 FM481R
Delicate blade 10 mm 1 probe pointed blade Sehr feines Blatt 10 mm 1 Blatt mit Knopf	 FM489R	 FM490R	 FM491R	 FM492R	 1/1 FM493R		
Ultra delicate blade 7 mm Extrem feines Blatt 7 mm	 FM504R	 FM505R	 FM506R	 FM507R	 FM508R		 1/1 FM503R

- Instrument length depends on the blade length or angle
- Die Instrumentenlänge variiert in Abhängigkeit der Blattlänge oder des Blattwinkels.

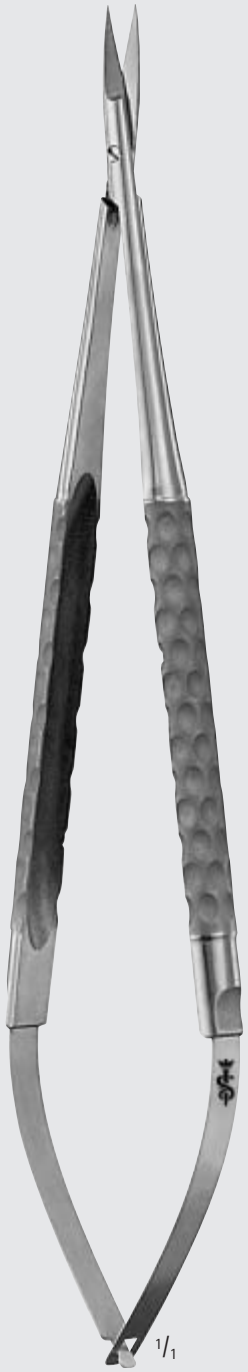


1/1

FM430R-FM474R

165 mm, 6 1/2"

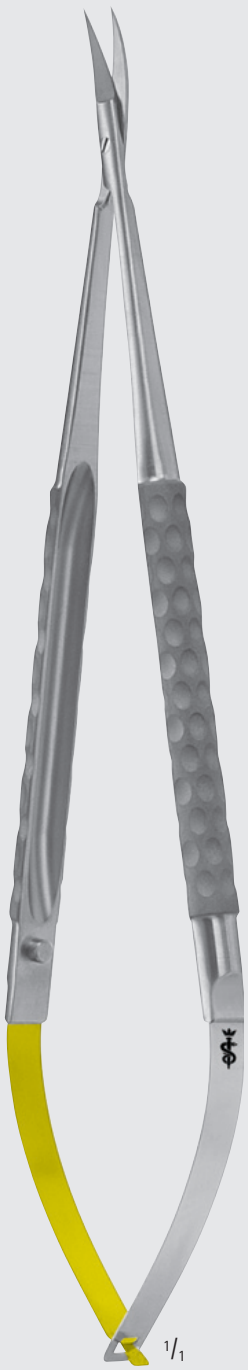
	25°	45°	60°	90°	125°	straight gerade	curved on flat aufgebogen
Fine blade 15 mm Feines Blatt 15 mm	 FM470R	 FM471R	 FM472R	 FM473R	 1/1 FM474R		
Fine blade 15 mm 1 probe pointed blade Feines Blatt 15 mm 1 Blatt mit Knopf	 FM451R	 FM452R	 FM453R	 FM454R	 1/1 FM455R		
Delicate blade 10 mm Sehr feines Blatt 10 mm	 FM437R	 FM438R	 FM439R	 FM440R	 FM441R	 FM442R	 1/1 FM436R
Ultra delicate blade 7 mm Extrem feines Blatt 7 mm	 FM431R	 FM432R	 FM433R	 FM434R	 FM435R	 FM444R	 1/1 FM430R



FM042R
straight
sharp/sharp
gerade
spitz/spitz
180 mm, 7"



FD251R
curved
sharp/sharp
gebogen
spitz/spitz
180 mm, 7"

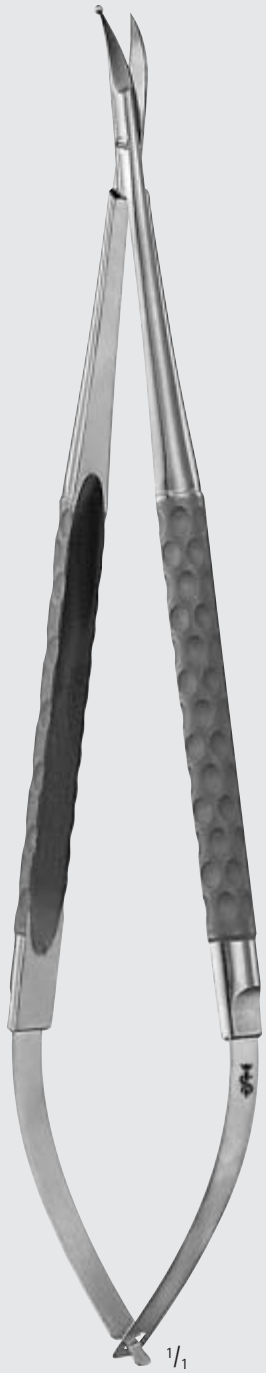


FD252R

Micro ligature scissors, curved
sharp/sharp, 1 blade serrated
for suture material 6/0 - 8/0

Mikro-Fadenschere, gebogen
spitz/spitz, 1 Blatt gezahnt
für Nahtmaterial von 6/0 - 8/0

180 mm, 7"

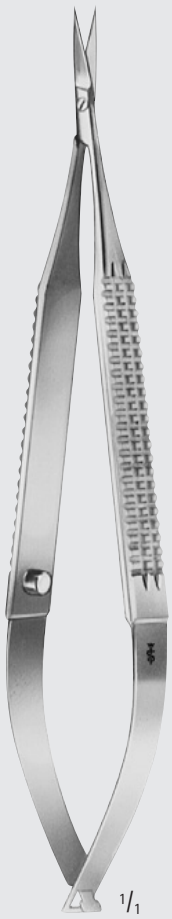


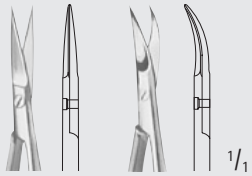
FM043R

curved
1 blade probe
pointed

gebogen
1 Blatt mit Knopf

180 mm, 7"

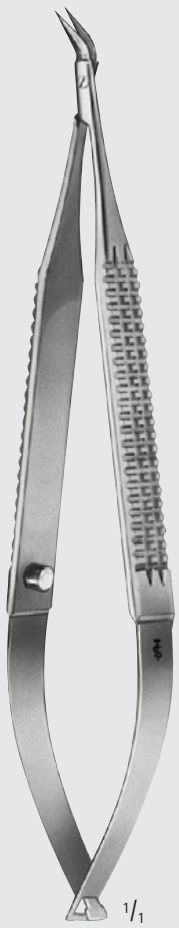


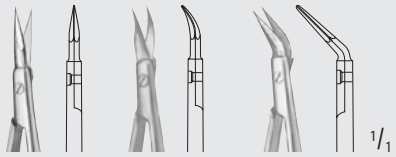


FD012R FD013R

FD012R-FD013R

120 mm, 4 3/4"





FD014R FD015R FD011R

angled on flat

abgewinkelt

VANNAS

FD011R-FD015R

120 mm, 4 3/4"



Vein scissors FD028R
for roughening vessel ends
- vessel cannot slip off
- clean, smooth cut

Venenschere FD028R
zum Auffrischen von Gefäßstümpfen
- kein Abgleiten des Gefäßes
- glatte, saubere Durchtrennung



FD028R
Vein scissors
Venenschere
130 mm, 5 1/8"



FD016R **FD017R**

FD016R-FD017R
160 mm, 6 1/4"



FD018R FD019R

VANNAS

FD018R-FD019R

160 mm, 6 1/4"



FD020R FD021R

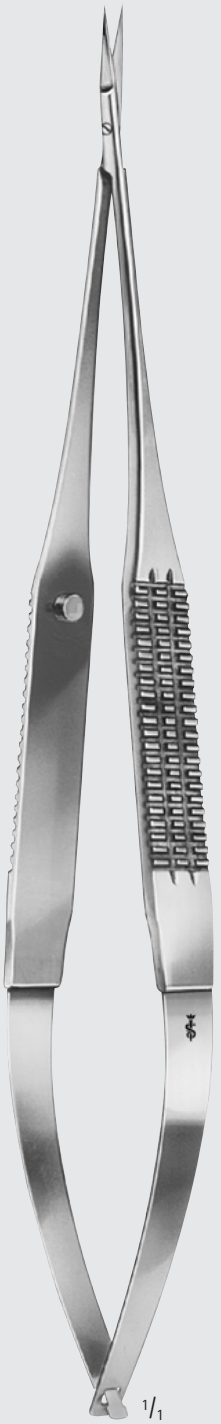
MILLESI

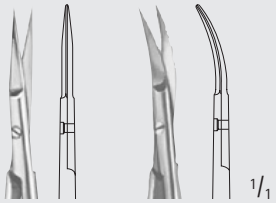
FD020R-FD021R

Blades serrrated

Schneiden gezahnt

160 mm, 6 1/4"



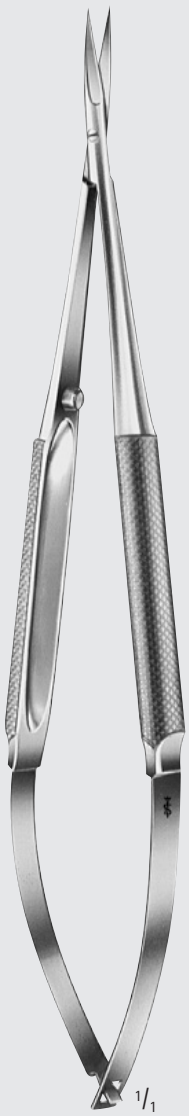


YASARGIL
FD022R

JACOBSON
FD023R

1/1

FD022R–FD023R
185 mm, 7 1/4"





FD100R

FD101R

FD103R
Micro dissecting scissors
Mikro-Präparierschere

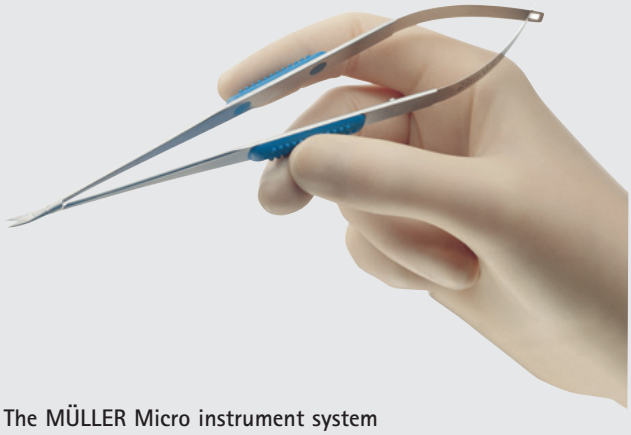
1/1

FD100R–FD103R
145 mm, 5 3/4"

Micro Instruments – Mikro-Instrumente

Micro Scissors

Mikro-Scheren



The MÜLLER Micro instrument system

- A top quality set for peripheral microsurgery.
  Numerous details tried and tested in practice mean increased efficiency and safety.
- Natural holding position = increased sensitivity
  The light plastic profile increases the grip surface, thus guaranteeing a natural hand position without cramping and providing enhanced sensitivity.
- Easier rotation = extended working area
  The round grip cross section permits easy and uniform rotation of the instrument. This extends the application and working areas.
- Safe grip
  The easy grip studded profile guarantees a secure hold for all movements.
- Optimum handling
  Development in accordance with ergonomic criteria and the low weight of the new plastic grips provide fatiguefree working and optimum handling.

Das MÜLLER Mikro-Instrumentarium

- Ein hochwertiges Set für die periphere Mikrochirurgie.
  Zahlreiche praxisbewährte Details führen zu mehr Effektivität und Sicherheit.
- Unverkrampfte Haltung = mehr Feingefühl
  Das leichte Kunststoffprofil vergrößert die Griffoberfläche, gewährleistet dadurch eine unverkrampfte Handhaltung und verleiht mehr Feingefühl.
- Leichteres Drehen = erweiterter Arbeitsbereich
  Der runde Griffquerschnitt ermöglicht leichtes, gleichmäßiges Drehen des Instrumentes. Verwendungs- bzw. Arbeitsbereich wird dadurch erweitert.
- Sicherer Halt
  Das griffige Noppenprofil gewährleistet einen durchweg sicheren Halt bei sämtlichen Bewegungsabläufen.
- Optimales Handling
  Eine Entwicklung nach ergonomischen Gesichtspunkten, verbunden mit dem geringen Gewicht der neuen Kunststoffgriffe schaffen die Voraussetzung zu ermüdungsfreiem Arbeiten und optimalem Handling.





FM010R
sharp/sharp
spitz/spitz



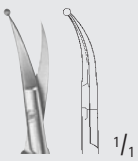
FM011R
sharp/sharp
spitz/spitz



FM012R
sharp/blunt
spitz/stumpf



FM013R
blunt/blunt
stumpf/stumpf



FM014R
probe pointed/sharp
Kugel/spitz

MÜLLER

FM010R–FM014R

120 mm, 4 3/4"





FM040R
sharp/sharp
spitz/spitz



FM041R
sharp/sharp
spitz/spitz

MÜLLER

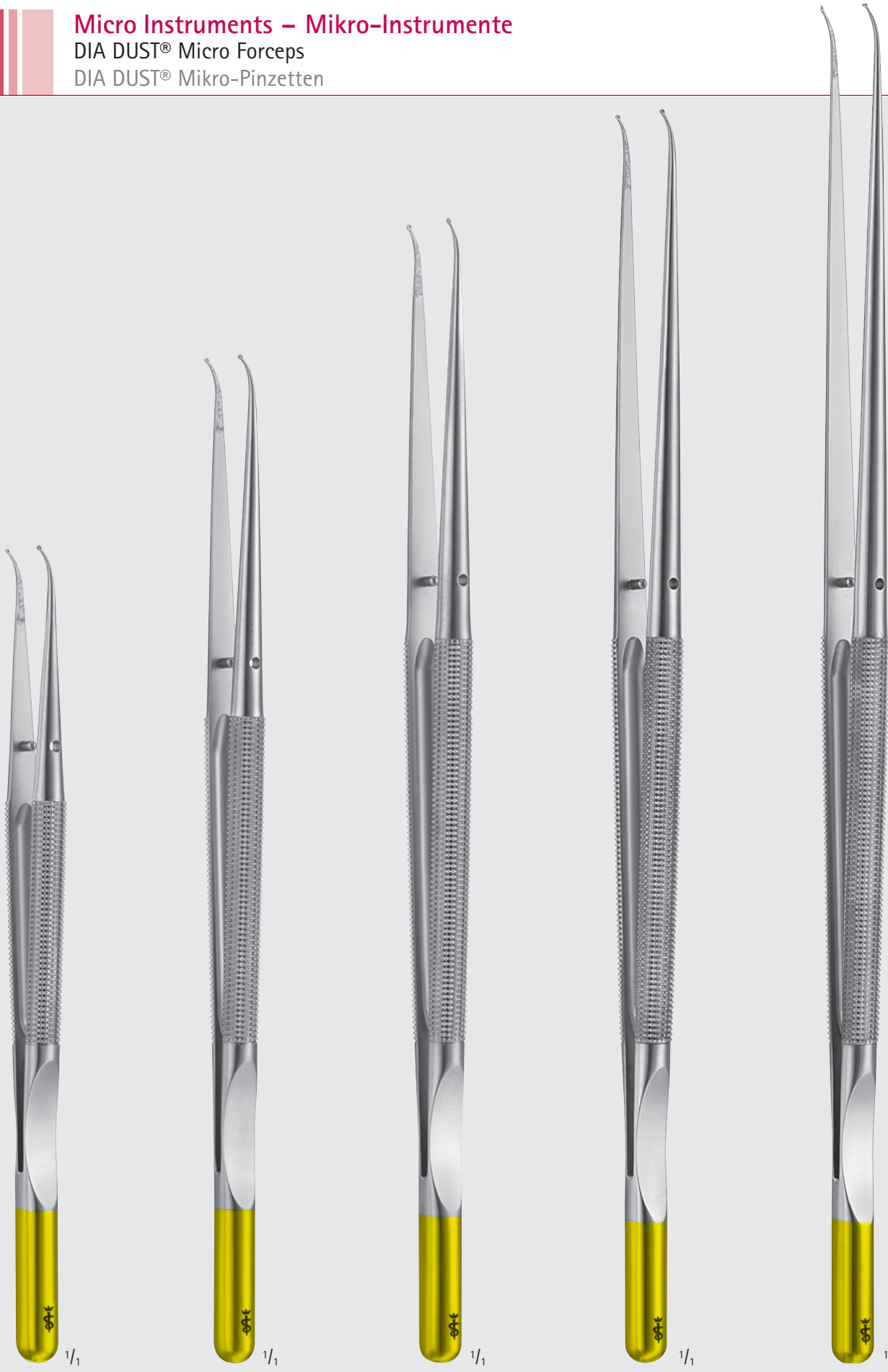
FM040R–FM041R

170 mm, 6 3/4"

Micro Instruments – Mikro-Instrumente

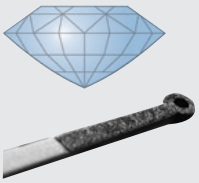
DIA DUST® Micro Forceps

DIA DUST® Mikro-Pinzetten



FM570R-FM581R	FM572R-FM592R	FM574R-FM600R	FM576R-FM577R	FM593R-FM596R
150 mm, 6"	185 mm, 7 1/4"	210 mm, 8 1/4"	230 mm, 9"	250 mm, 10"

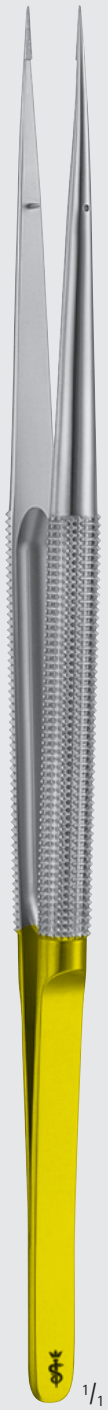
DIA DUST®



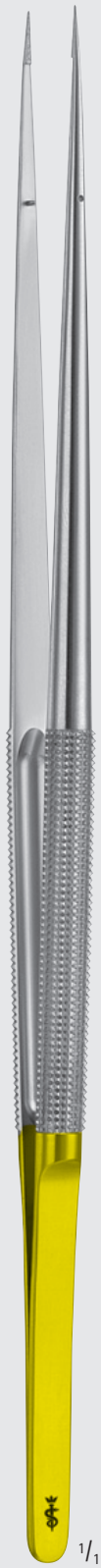
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.

Jaw type Maulform	Diam. of ring: 1 mm, straight Ring-Ø: 1 mm, gerade	Diam. of ring: 1 mm, curved Ring-Ø: 1 mm, gebogen	Diam. of ring: 2 mm, straight Ring-Ø: 2 mm, gerade	Platform tips, straight Fadenplatte, gerade	Platform tips, curved Fadenplatte, gebogen	DeBakey tip, 1 mm DeBakey Zahnung, 1 mm,
Total length Gesamtlänge						
150 mm 6"	FM570R	FM571R		FM578R	FM581R	
185 mm 7 1/4"	FM572R	FM573R	FM579R	FM580R	FM583R	FM592R
210 mm 8 1/4"	FM574R	FM575R		FM599R	FM585R	FM600R
230 mm 9"	FM576R	FM577R				
250 mm 10"	FM596R	FM595R		FM594R	FM593R	

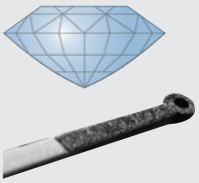


FM582R-FM597R
185 mm, 7 1/4"



FM584R-FM598R
210 mm, 8 1/4"

DIA DUST®



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.

Jaw type Maulform	Diam. of ring: 1 mm, straight Ring-Ø: 1 mm, gerade	Diam. of ring: 1 mm, curved Ring-Ø: 1 mm, gebogen	Diam. of ring: 1 mm with platform tip Ring-Ø: 1 mm mit Fadenplatte	Platform tip, straight Fadenplatte, gerade	DeBakey tip, 1 mm DeBakey Zahnung, 1 mm
Total length Gesamtlänge					 1/1
185 mm 7 1/4"	FM597R	FM587R	FM582R	FM586R	FM590R
210 mm 8 1/4"	FM598R	FM589R	FM584R	FM588R	FM591R



1/1

BD190R–BD194R
180 mm, 7″



1/1

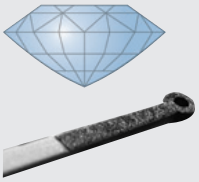
BD195R–BD196R
200 mm, 8″



1/1

BD197R
250 mm, 10″

DIA DUST®



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.

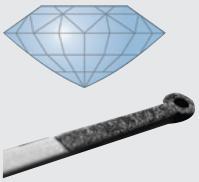
Jaw type Maulform	cross serrated, 1 mm Karoprofil, 1 mm	DeBakey tip, 1 mm DeBakey Zahnung, 1 mm	Diam. of ring: 1 mm, straight Ring-Ø: 1 mm, gerade	Diam. of ring: 1 mm, curved Ring-Ø: 1 mm, gebogen	1 mm, straight 1 mm, gerade
Total length Gesamtlänge					 1/1
180 mm 7"	BD190R	BD191R	BD192R	BD193R	BD194R
200 mm 8"		BD195R			BD196R
250 mm 10"	BD197R				

Micro Instruments – Mikro-Instrumente

DIA DUST® Micro Forceps

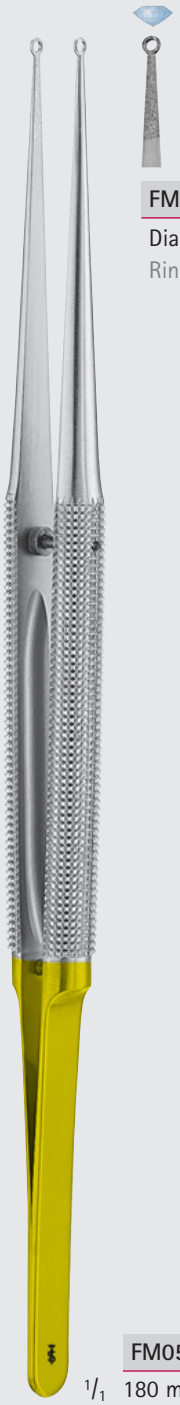
DIA DUST® Mikro-Pinzetten

DIA DUST®



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.



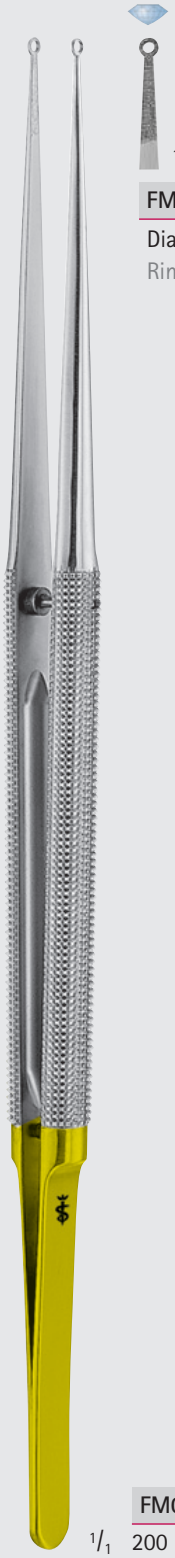
FM053R

Diam. of ring: 2.5 mm

Ring-Ø: 2,5 mm

FM053R

1/1 180 mm, 7"



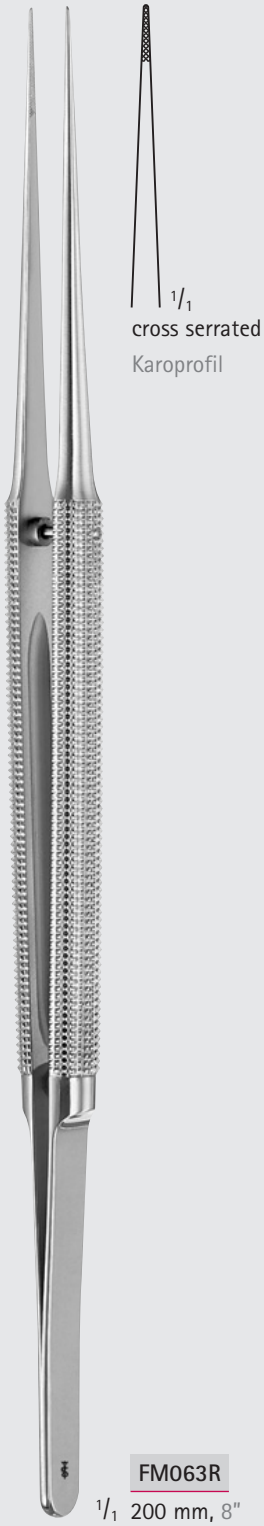
FM054R

Diam. of ring: 2.5 mm

Ring-Ø: 2,5 mm

FM054R

1/1 200 mm, 8"



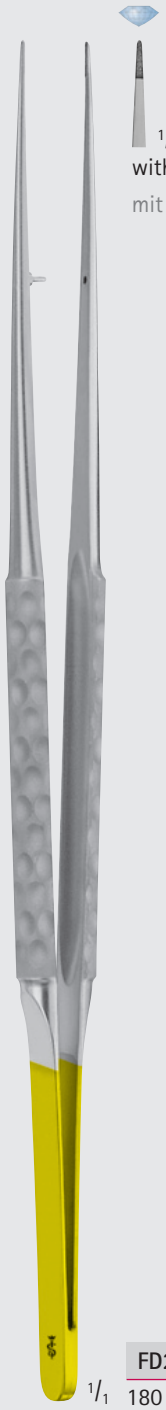
1/1

cross serrated

Karoprofil

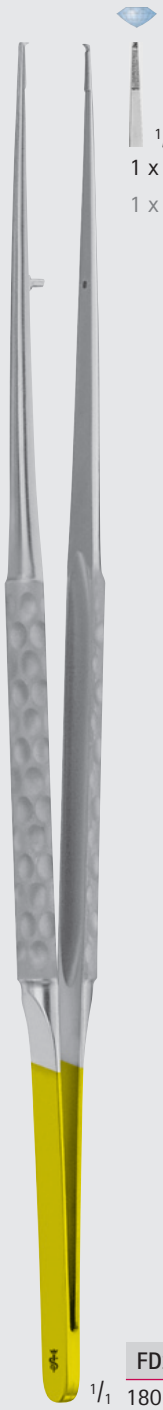
FM063R

1/1 200 mm, 8"



1/1
with platform tip
mit Plateau

FD253R
1/1 180 mm, 7"



1/1
1 x 2 teeth
1 x 2 Zähne

FD255R
1/1 180 mm, 7"



1/1
Diam. of ring: 2 mm
Ring-Ø: 2 mm

FM047R
1/1 180 mm, 7"

Micro Instruments – Mikro-Instrumente

Micro Forceps

Mikro-Pinzetten

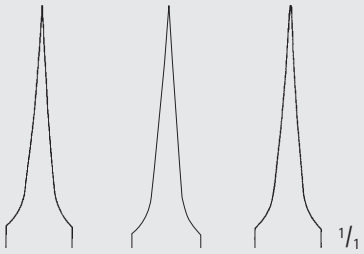


The MÜLLER Micro instrument system

- A top quality set for peripheral microsurgery.
  Numerous details tried and tested in practice mean increased efficiency and safety.
- Natural holding position = increased sensitivity
  The light plastic profile increases the grip surface, thus guaranteeing a natural hand position without cramping and providing enhanced sensitivity.
- Easier rotation = extended working area
  The round grip cross section permits easy and uniform rotation of the instrument. This extends the application and working areas.
- Safe grip
  The easy grip studded profile guarantees a secure hold for all movements.
- Optimum handling
  Development in accordance with ergonomic criteria and the low weight of the new plastic grips provide fatiguefree working and optimum handling.



0.15 mm | 0.2 mm | 0.3 mm



FM001R | FM002R | FM003R

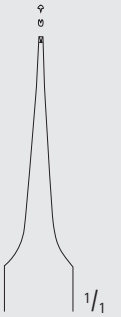
MÜLLER

FM001R-FM003R

110 mm, 4 3/8"



0.5 mm



1 x 2 teeth
1 x 2 Zähne

MÜLLER

FM004R

110 mm, 4 3/8"





FM005R

Diam. of ring:
1.2 mm

Ring-Ø:
1,2 mm



FM006R

triangular,
1.2 mm wide

3-kant,
1,2 mm breit

MÜLLER

FM005R-FM006R

110 mm, 4 3/8"

Das MÜLLER Mikro-Instrumentarium

- Ein hochwertiges Set für die periphere Mikrochirurgie. Zahlreiche praxisbewährte Details führen zu mehr Effektivität und Sicherheit.
- Unverkrampfte Haltung = mehr Feingefühl
  Das leichte Kunststoffprofil vergrößert die Griffoberfläche, gewährleistet dadurch eine unverkrampfte Handhaltung und verleiht mehr Feingefühl.
- Leichteres Drehen = erweiterter Arbeitsbereich
  Der runde Griffquerschnitt ermöglicht leichtes, gleichmäßiges Drehen des Instrumentes. Verwendungs- bzw. Arbeitsbereich wird dadurch erweitert.
- Sicherer Halt
  Das griffige Noppenprofil gewährleistet einen durchweg sicheren Halt bei sämtlichen Bewegungsabläufen.
- Optimales Handling
  Eine Entwicklung nach ergonomischen Gesichtspunkten, verbunden mit dem geringen Gewicht der neuen Kunststoffgriffe schaffen die Voraussetzung zu ermüdungsfreiem Arbeiten und optimalem Handling.



0.3 mm
1/1
FM033R

0.4 mm
1/1
FM036R
with plateau
mit Plateau

MÜLLER
FM033R-FM036R
1/1 160 mm, 6 1/4"



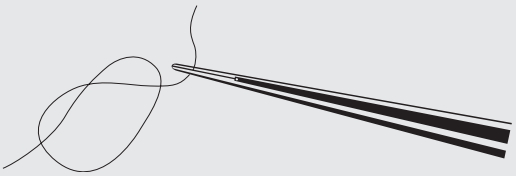
0.5 mm
1/1
1 x 2 teeth
1 x 2 Zähne

MÜLLER
FM034R
1/1 160 mm, 6 1/4"

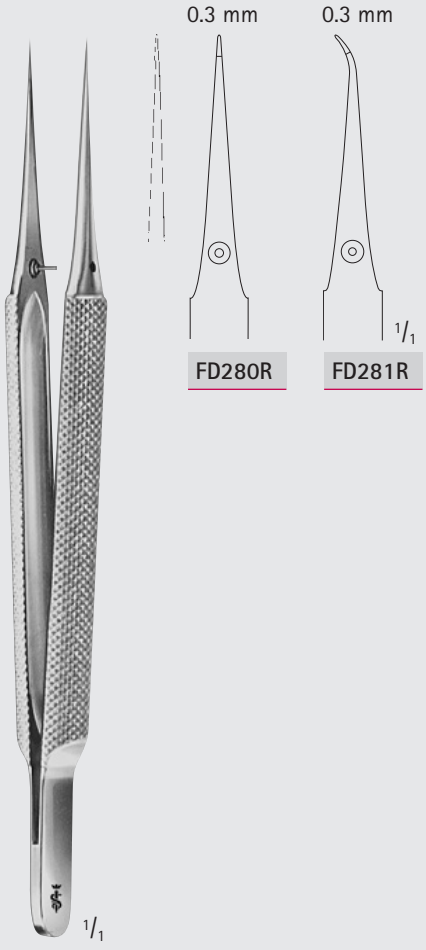


1/1
Diam. of ring:
1.2 mm
Ring-Ø: 1,2 mm

MÜLLER
FM035R
1/1 160 mm, 6 1/4"



with plateau at the tips
mit Plateau an den Spitzen



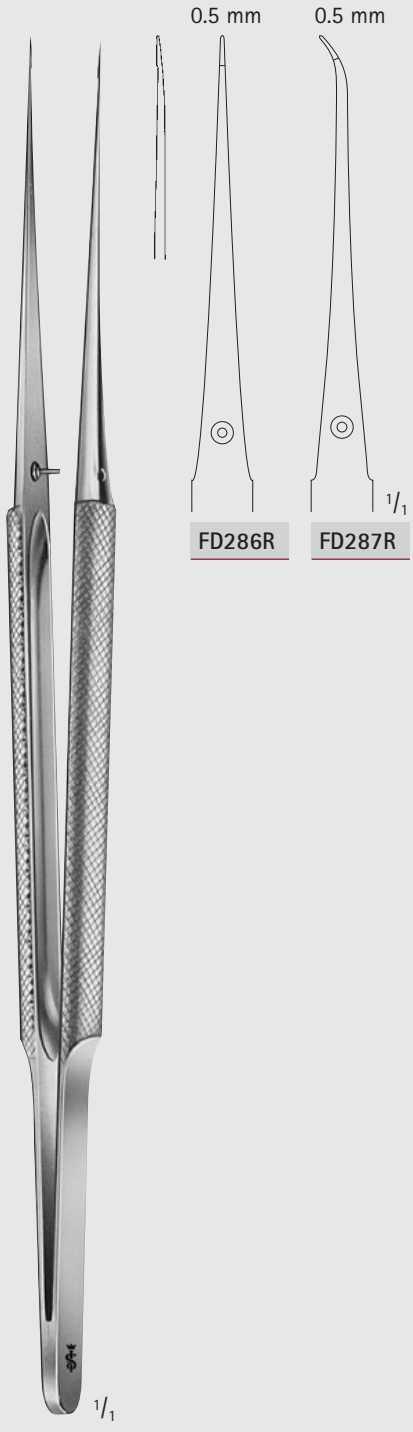
FD280R
FD281R

FD280R–FD281R
120 mm, 4 3/4"



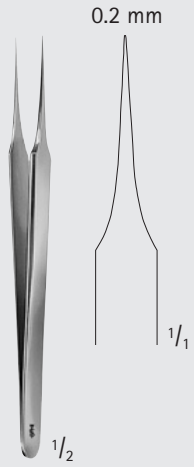
FD284R
FD285R

FD284R–FD285R
150 mm, 6"

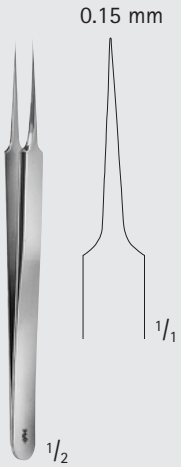


FD286R
FD287R

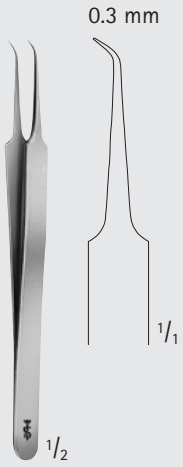
FD286R–FD287R
180 mm, 7"



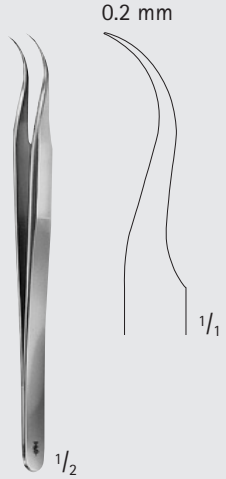
BD330R
110 mm, 4 3/8"



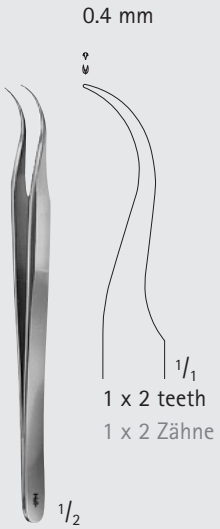
BD331R
110 mm, 4 3/8"



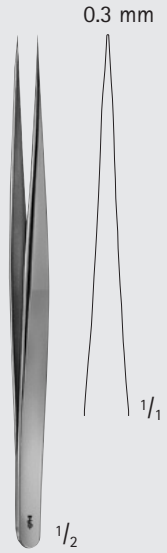
BD329R
110 mm, 4 3/8"



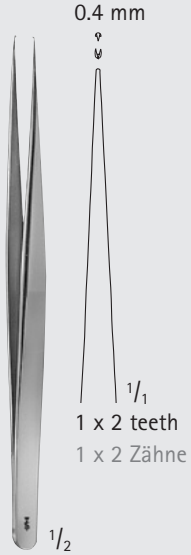
BD333R
115 mm, 4 1/2"



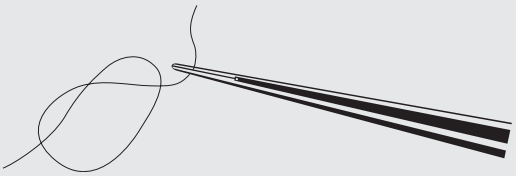
BD343R
115 mm, 4 1/2"



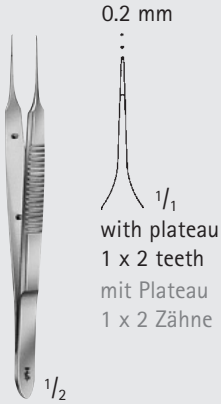
BD335R
135 mm, 5 1/4"



BD345R
135 mm, 5 1/4"



with plateau at the tips
mit Plateau an den Spitzen



with plateau
1 x 2 teeth
mit Plateau
1 x 2 Zähne

BONNER MODELL

BD505R

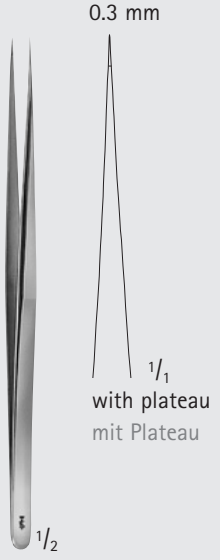
95 mm, 3 3/4"



with plateau
mit Plateau

BD338R

120 mm, 4 3/4"

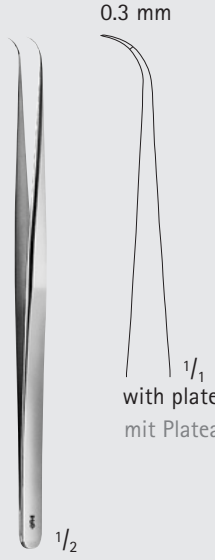


with plateau
mit Plateau

VISE

BD336R

135 mm, 5 1/4"

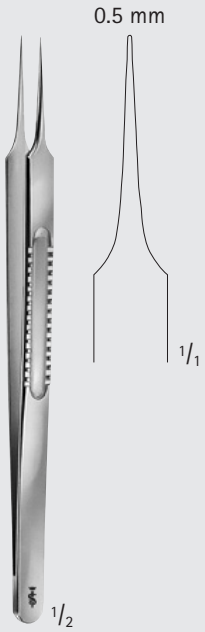


with plateau
mit Plateau

VISE

BD337R

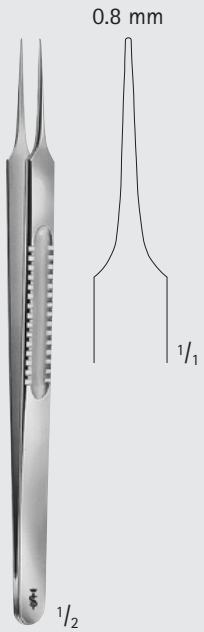
135 mm, 5 1/4"



LAZAR

BD260R

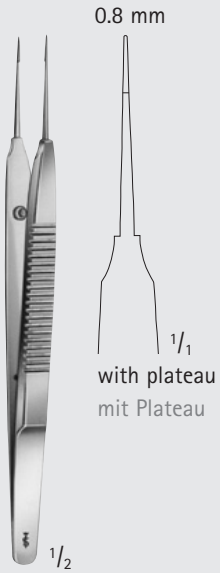
155 mm, 6"



LAZAR

BD261R

155 mm, 6"

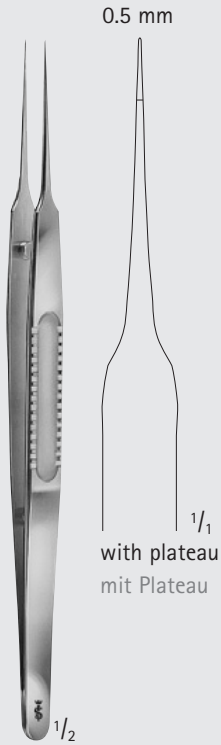


with plateau
mit Plateau

AUSTIN

BD340R

140 mm, 5 1/2"



with plateau
mit Plateau

BD264R

185 mm, 7 1/4"

Braided and coated, non-absorbable suture made of polyester

Unique structure

Central core covered by several small compact braids and an outermost silicone coating, conferring PremiCron® with all required features for heart valve prosthetic rings implantation.

- Smooth surface and knot run down
- Improved knot adjustability and lockdown
- Tight seal at the prosthetic ring

Geflochten und beschichtet, nicht absorbierbare Fäden aus Polyester

Einzigartiger Fadenaufbau

Der Kern ist von einer geflochtenen Struktur umgeben und mit Silikon beschichtet. Durch diese Fadenstruktur erfüllt PremiCron® die hohen Ansprüche zum Einsatz bei der Implantation von Herzklappen.

- Glatte Oberfläche und exzellente Knotengleitfähigkeit
- Vorgelegte Knoten lassen sich leicht an ihre endgültige Position schieben
- Perfekter Faden- und Knotensitz am Herzklappenring

The most extended needle tip range:

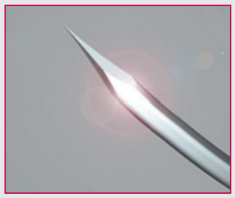
Das breiteste Nadelprogramm:



HRC ⊛
Short cutting tip
Schneidende Rundkörpernadel mit Kurzschliff



HR ●
Taper point
Rundkörpernadel mit schlanker Nadelspitze



HRT ⊕
Trocar point
Rundkörpernadel mit Trokarspitze

The ultimate needle generation for CV surgery

- Specifically developed to meet the high standards required during cardiovascular surgery.
- CV pass needles are manufactured employing top quality stainless steel alloy (300 stainless steel series acc. ASTM F899).

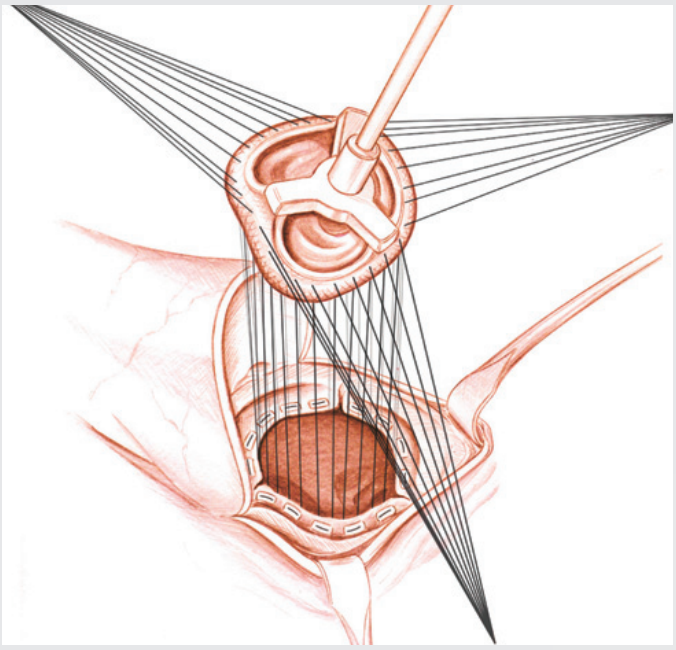
Die neue Nadelgeneration für die Herz- und Gefäßchirurgie

- Speziell für die hohen Ansprüche in der Herz- und Gefäßchirurgie entwickelt.
- CV-Pass-Nadeln sind aus einer rostfreien Stahllegierung höchster Qualität gefertigt (Serie 300 rostfreier Edelstahl entsprechend ASTM F899).



CV Pass NEEDLES

CV Pass Easyblack



PTFE Pledgets: complete range; unique design

As an extension to the cardiac sutures product line, B. Braun offers a complete PTFE Pledgets range including Soft and Firm versions, available either as stand-alone presentation or armed to PremiCron® and Premilene® sutures.

Main features

- Unique adaptation to heart valve anatomical contours (annulus)
- Fraying-free laser-cut design
- Enhanced protection of friable annulus tissue
- Optimal buttress of suture material

PTFE-Pledgets: Komplettes Portfolio, einzigartiges Design

Zusatzlich zum Nahtmaterial im Bereich Herzchirurgie, bietet B. Braun ein vollständiges Portfolio an PTFE-Pledgets. Die Pledgets sind als 'Firm'- oder 'Soft'-Version sowie in unterschiedlichen Abmessungen erhältlich. Sie sind entweder einzeln verpackt oder bereits mit PremiCron® bzw. Premilene® Nahtmaterial armiert.

Eigenschaften:

- Optimale Anpassung an die anatomischen Strukturen der Herzklappe (Annulus)
- Fransenfrei durch Laserschnitt
- Besserer Schutz des fragilen Gewebes und Organparenchymen
- Optimales Widerlager für den Faden





For further details see brochure No. BBSE127-02.
Weitere Einzelheiten siehe Broschüre Nr. BBSE-127-02.

Premilene® with CV Pass needles: the best option for calcified coronary arteries and blood vessels

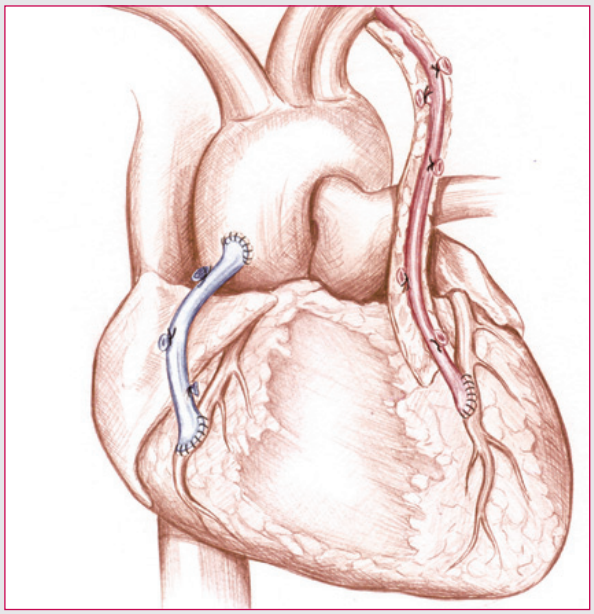
Premilene® mit CV Pass Nadeln: Die beste Option für kalzifizierte Koronarien und andere Gefäße

Premilene® is a synthetic non-absorbable monofilament composed of an isotactic polypropylene, presenting an absolutely regular and longitudinal molecular structure. This composition together with its special extrusion process provide Premilene® with:

- Permanent initial tensile strength
- Outstanding surface smoothless to ensure minimal tissue drag
- Adequate elasticity and elongation values which guarantee a stable and secure knot
- Optimal pliability for easy knot tying and comfortable continuous suturing. Available in long pack presentations; specific memory free packaging

Premilene® ist ein nicht resorbierbares, monofiles synthetisches Nahtmaterial aus isotaktischem Polypropylen, das eine absolut gleichmäßige, längs angeordnete Molekularstruktur aufweist. Im Zusammenspiel mit dem speziellen Extrusionsverfahren gibt dies Premilene® folgende Eigenschaften:

- hohe Reissfestigkeit
- hervorragende Handhabung, sanftes Gleiten
- optimale Elastizität und Dehnung: dies garantiert stabilen und sicheren Knotensitz
- ideale Flexibilität zum leichteren Knoten und einfachem Gewebedurchzug
- verfügbar als Long Pack zur Vermeidung von Memory Effekten



The ultimate needle generation for CV surgery

- Specifically developed to meet the high standards required during cardiovascular surgery.
- CV pass needles are manufactured employing top quality stainless steel alloy (300 stainless steel series acc. ASTM F899). The needle range includes:

CV Pass NEEDLES | CV Pass Easyblack

Die neue Nadelgeneration für die Herz- und Gefäßchirurgie

- Speziell für die hohen Ansprüche in der Herz- und Gefäßchirurgie entwickelt.
- CV Pass Nadeln sind aus einer rostfreien Stahllegierung höchster Qualität gefertigt (Serie 300 rostfreier Edelstahl entsprechend ASTM F899). Das Nadelspektrum umfasst:

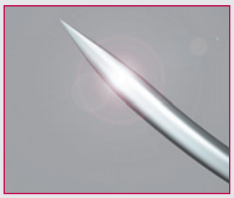
CV Pass NEEDLES | CV Pass Easyblack



CV Pass needles – Ultimate body design

An innovative semi-squared body with round edges provides CV Pass needles with:

- Superior resistance to bending and breakage
- Optimal penetration even after multiple stitches
- Atraumatic passage through tissue
- Excellent stability in the needle holder
- Improved needle visibility with CV Pass Easyblack
- The most extended needle tip range



HRC ⋎
Short cutting tip
Schneidende Rundkörpernadel mit Kurzschliff



HR ●
Taper point
Rundkörpernadel mit schlanker Nadelspitze



CV Pass Nadeln: Spezielle Nadelgeometrie

Ein quadratischer Querschnitt der Nadelkörper mit abgerundeten Kanten gibt den CV Pass-Nadeln:

- höchste Widerstandsfähigkeit gegen Verformung und Brechen
- optimale Penetrationsfähigkeit selbst nach mehreren Stichen
- atraumatische Gewebepassage
- stabiler Halt im Nadelhalter
- bessere Sichtbarkeit durch CV Pass Easyblack Nadeln
- das breiteste Nadelprogramm



For further details see brochure No. BBSE126-02.
Weitere Einzelheiten siehe Broschüre Nr. BBSE-126-02.

Micro Instruments – Mikro-Instrumente

Surgical Loop Retraction Tape

Surgical Loop Retraktionsband

Surgical retraction tape made of radiopaque silicone, cotton or polyester

- for intraoperative isolation, marking, giving mechanical support and looping of organs, blood vessels, tendons and nerves
- gives better access to the operation field



Surgical Loop provides:

- Flexibility and resistance
- Smooth surface with no tissue adherence
- Attractive colour presentation to ease differentiation
- Different product dimensions to suit all purposes
- Radiopaque to ensure pacient safety



Chirurgisches Retraktionsband aus röntgendichtem Silikon, Baumwolle oder Polyester

- für intraoperative Kennzeichnung und Retraktion von Organen, Arterien, Venen, Sehnen und Nerven
- erleichtert den Zugang zum Operationsfeld

Das Surgical Loop Retraktionsband bietet:

- Flexibilität und Widerstandsfähigkeit
- Glatte Oberfläche ohne Gewebehaftungstendenz
- Ansprechende farbliche Aufmachung zur besseren Unterscheidung
- Unterschiedliche Abmessungen zur Abdeckung aller Einsatzbereiche
- Röntgendichte zur Erhöhung der Patientensicherheit



For further details see brochure No. BBSE-026-02.
Weitere Einzelheiten siehe Broschüre Nr. BBSE-026-02.

Micro Instruments – Mikro-Instrumente

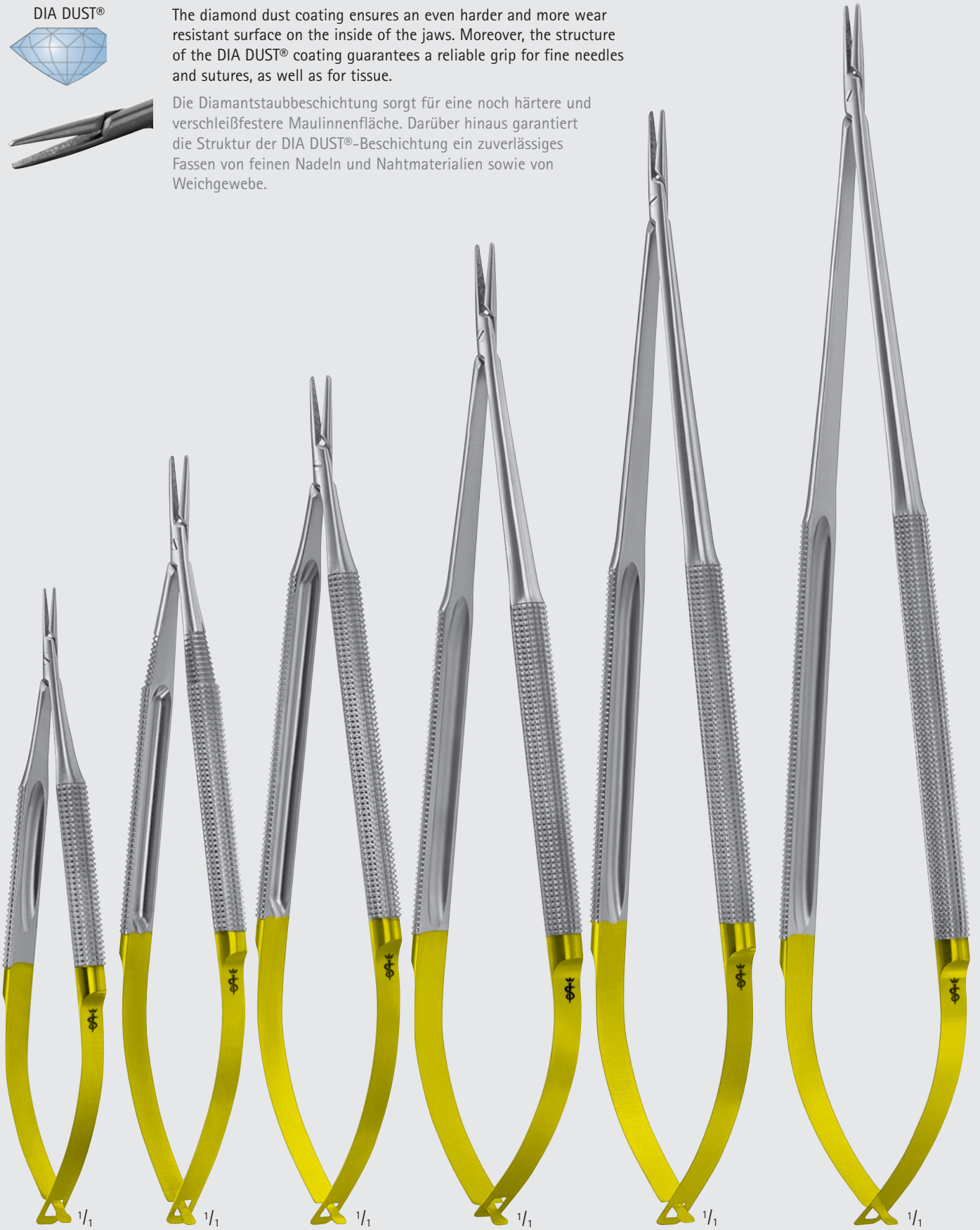
DIA DUST® Micro Needle Holders

DIA DUST® Mikro-Nadelhalter

DIA DUST®

The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.

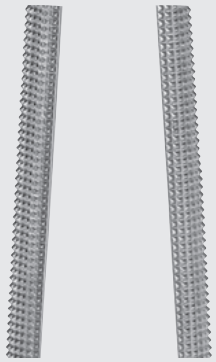


FM520R-FM524R	FM522R-FM528R	FM521R-FM529R	FM218R-FM564R	FM221R-FM566R	FM223R-FM568R
120 mm, 4 3/4"	145 mm, 5 3/4"	160 mm, 6 1/4"	185 mm, 7 1/4"	210 mm, 8 1/4"	230 mm, 9"



with catch
mit Sperre

Total length Gesamtlänge	1/1 Suture size Nahtmaterialgröße 7/0 and smaller 7/0 und kleiner	1/1 5/0 and smaller 5/0 und kleiner	1/1 4/0 and smaller 4/0 und kleiner	1/1 4/0 and smaller 4/0 und kleiner
120 mm 4 3/4"	FM520R			
145 mm 5 3/4"		FM522R		
160 mm 6 1/4"	FM521R	FM523R		
185 mm 7 1/4"	FM563R	FM564R	FM218R	
210 mm 8 1/4"	FM565R	FM566R	FM228R	FM221R
230 mm 9"	FM567R	FM568R	FM230R	FM223R



without catch
ohne Sperre

Total length Gesamtlänge	1/1 Suture size Nahtmaterialgröße 7/0 and smaller 7/0 und kleiner	1/1 5/0 and smaller 5/0 und kleiner
120 mm 4 3/4"	FM524R	
145 mm 5 3/4"		FM528R
160 mm 6 1/4"	FM525R	FM529R
185 mm 7 1/4"	FM526R	FM530R
210 mm 8 1/4"	FM527R	FM531R
230 mm 9"	FM532R	FM533R

Micro Instruments – Mikro-Instrumente

DIA DUST® Micro Needle Holders

DIA DUST® Mikro-Nadelhalter

DIA DUST®

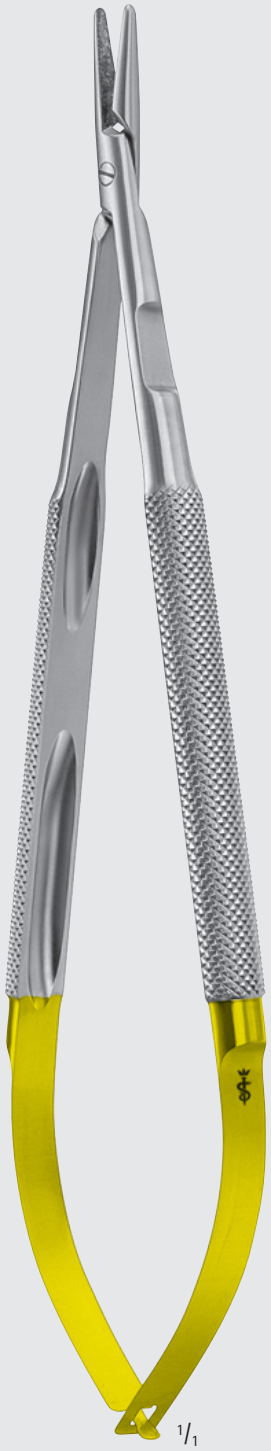




The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.

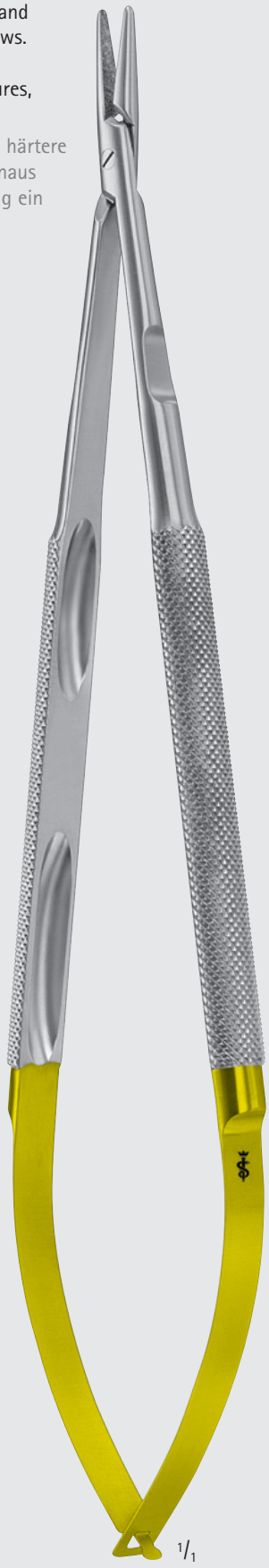
DIA DUST®



1/1

FM535R-FM538R

190 mm, 7 1/2"



1/1

FM536R-FM539R

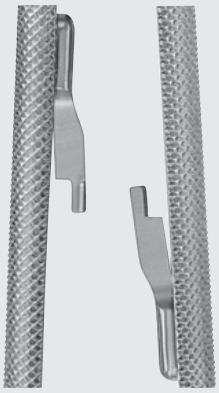
230 mm, 9 "



1/1

FM534R-FM537R

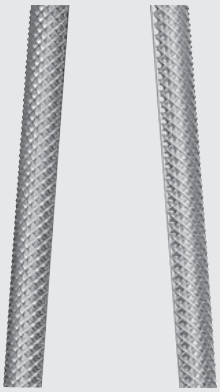
250 mm, 10 "



with catch, heavy style

mit Sperre, kräftige Ausführung

Total length Gesamtlänge	 1/1 Suture size Nahtmaterialgröße 2/0 and smaller 2/0 und kleiner
190 mm 7 1/2"	FM538R
230 mm 9"	FM539R
250 mm 10"	FM534R



without catch, heavy style

ohne Sperre, kräftige Ausführung

Total length Gesamtlänge	 1/1 Suture size Nahtmaterialgröße 2/0 and smaller 2/0 und kleiner
190 mm 7 1/2"	FM535R
230 mm 9"	FM536R
250 mm 10"	FM537R

Micro Instruments – Mikro-Instrumente

DIA DUST® Micro Needle Holders

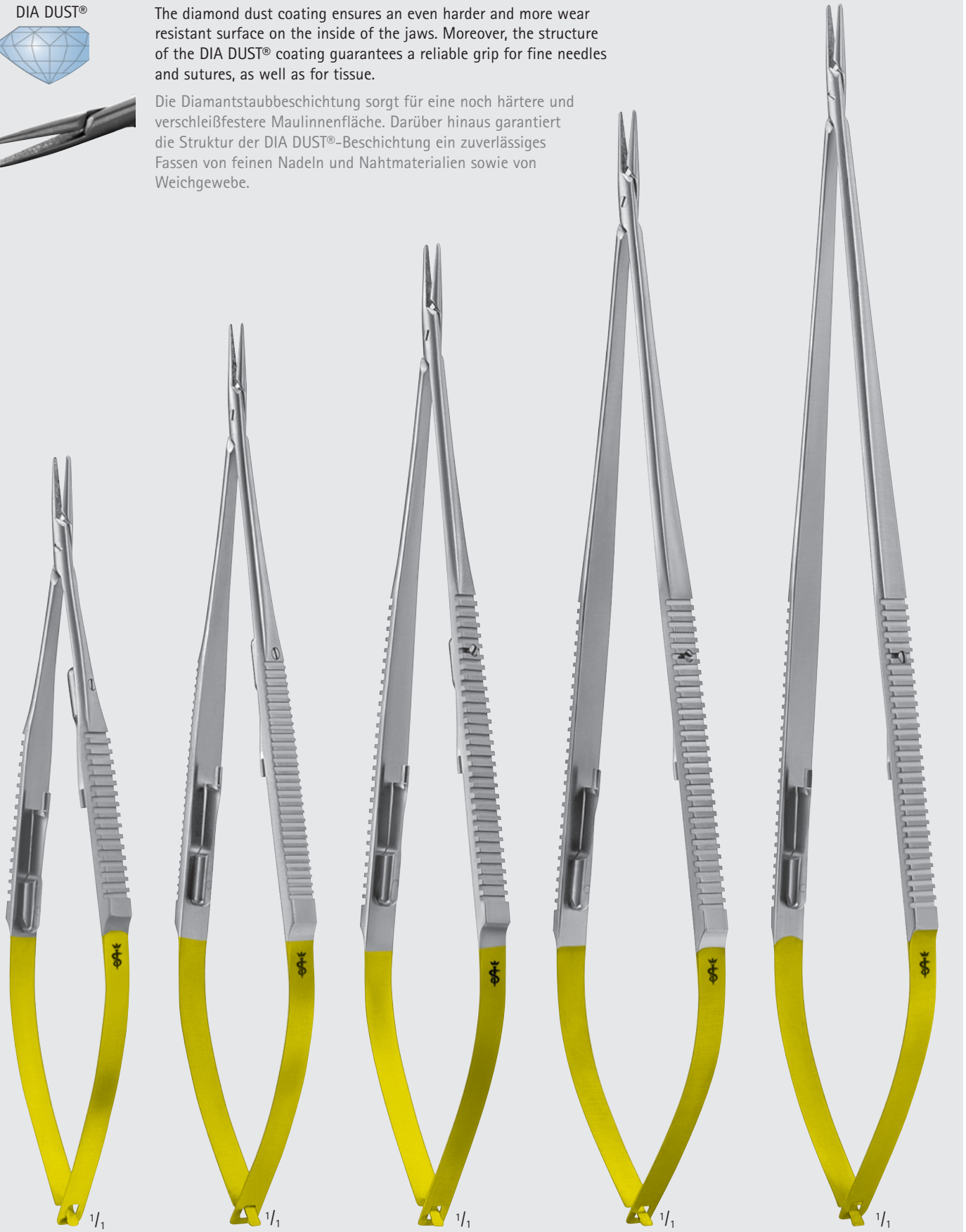
DIA DUST® Mikro-Nadelhalter

DIA DUST®

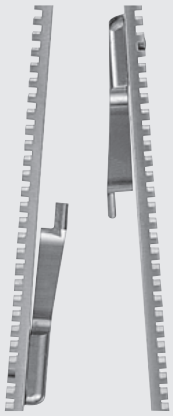


The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

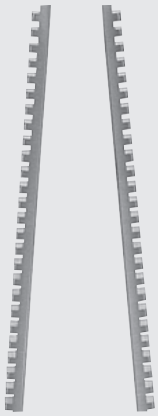
Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.



FM541R–FM546R	FM540R–FM545R	FM542R–FM547R	FM543R–FM548R	FM544R–FM549R
145 mm, 5 3/4"	170 mm, 6 3/4"	185 mm, 7 1/4"	210 mm, 8 1/4"	230 mm, 9"



with catch mit Sperre	Total length Gesamtlänge	 1/1 Suture size Nahtmaterialgröße 7/0 and smaller 7/0 und kleiner	 1/1 5/0 and smaller 5/0 und kleiner
	145 mm 5 3/4"		FM541R
	170 mm 6 3/4"	FM540R	
	185 mm 7 1/4"		FM542R
	210 mm 8 1/4"		FM543R
	230 mm 9"		FM544R



without catch ohne Sperre	Total length Gesamtlänge	 1/1 Suture size Nahtmaterialgröße 7/0 and smaller 7/0 und kleiner	 1/1 5/0 and smaller 5/0 und kleiner
	145 mm 5 3/4"		FM546R
	170 mm 6 3/4"	FM545R	
	185 mm 7 1/4"		FM547R
	210 mm 8 1/4"		FM548R
	230 mm 9"		FM549R

Micro Instruments – Mikro-Instrumente

DIA DUST® Micro Needle Holders

DIA DUST® Mikro-Nadelhalter

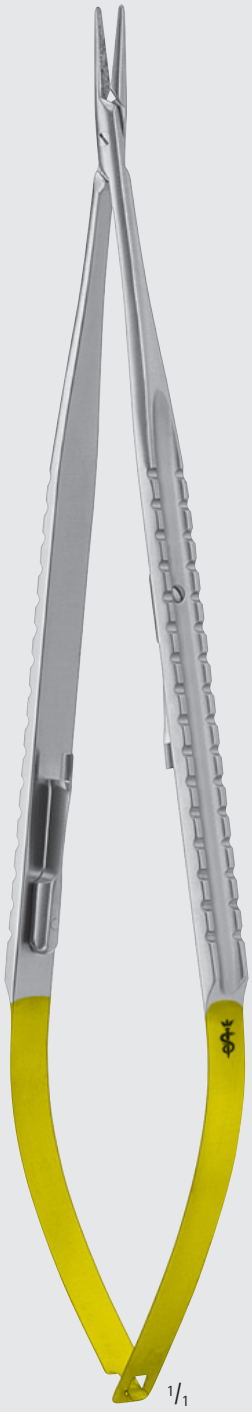
DIA DUST®





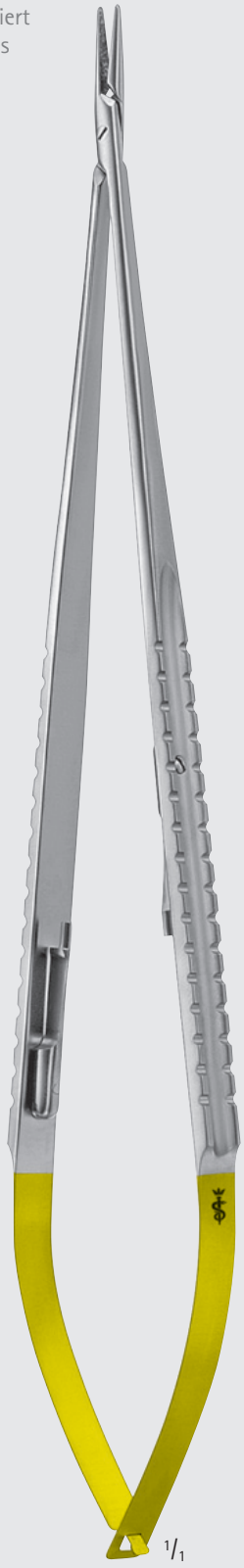
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.



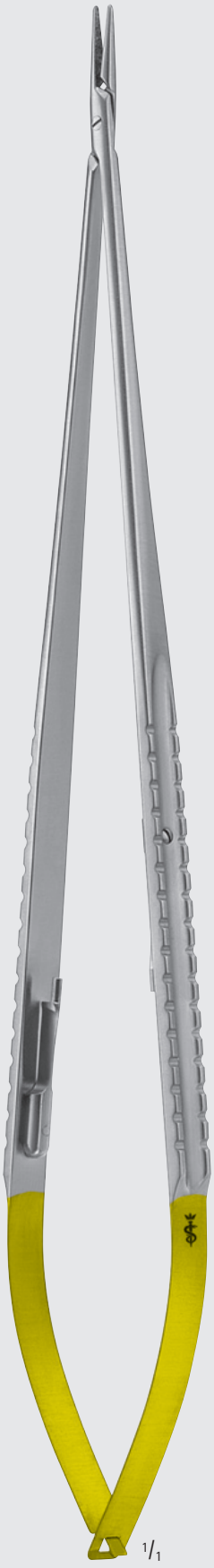
FM550R–FM553R

185 mm, 7 1/4"



FM551R–FM554R

210 mm, 8 1/4"



FM552R–FM555R

230 mm, 9 "



		1/1
		Suture size Nahtmaterialgröße
with catch mit Sperre	Total length Gesamtlänge	5/0 and smaller 5/0 und kleiner
	185 mm 7 1/4"	FM550R
	210 mm 8 1/4"	FM551R
	230 mm 9"	FM552R



		1/1
		Suture size Nahtmaterialgröße
without catch ohne Sperre	Total length Gesamtlänge	5/0 and smaller 5/0 und kleiner
	185 mm 7 1/4"	FM553R
	210 mm 8 1/4"	FM554R
	230 mm 9"	FM555R

Micro Instruments – Mikro-Instrumente

DIA DUST® Micro Needle Holders

DIA DUST® Mikro-Nadelhalter

DIA DUST®





The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.



GLASSER

FM560R

Suture size: 5/0 and smaller

Nahtmaterialgröße: 5/0 und kleiner

125 mm, 5"



GLASSER

FM561R

Suture size: 5/0 and smaller

Nahtmaterialgröße: 5/0 und kleiner

180 mm, 7"



FD258R FD259R

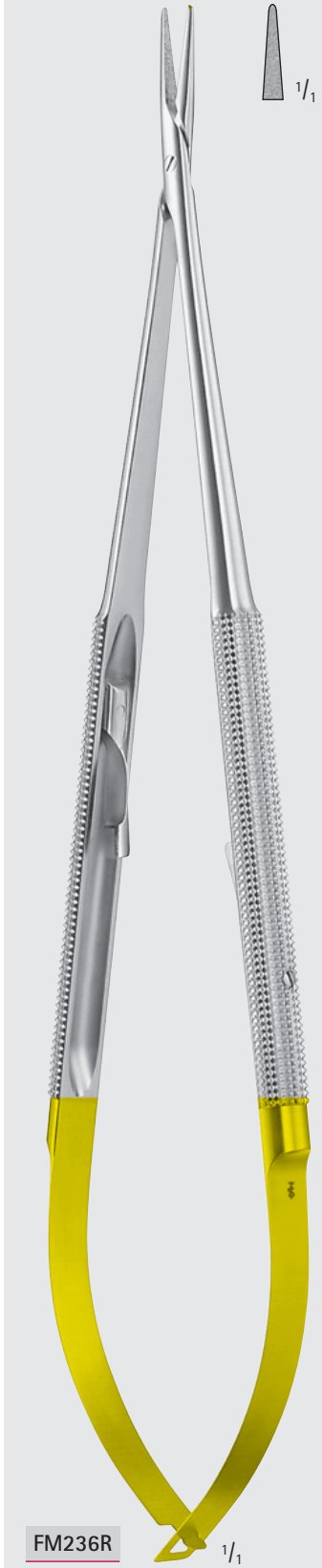
1/1

FD258R–FD259R

with catch
Suture size: 7/0 and smaller

mit Sperre
Nahtmaterialgröße: 7/0 und kleiner

180 mm, 7"



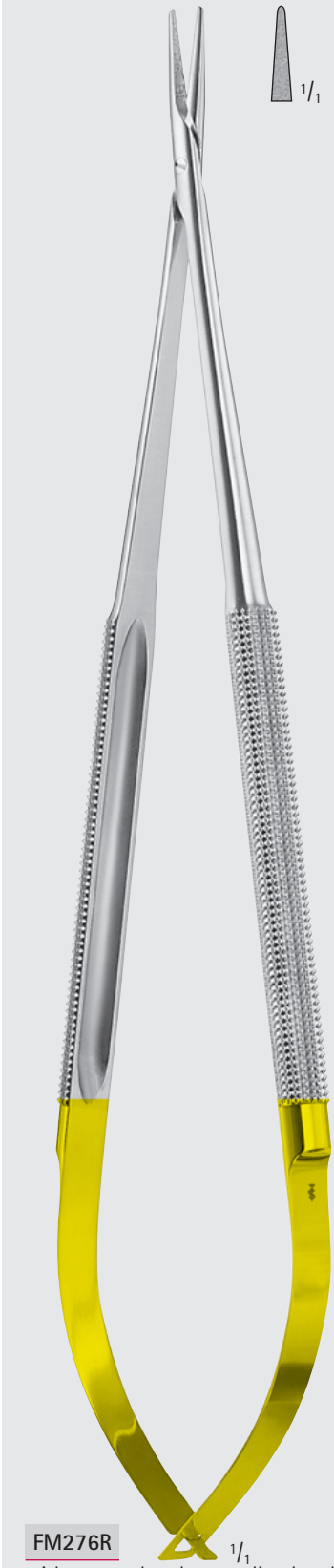
1/1

FM236R

with catch and streamline box lock
Suture size: 5/0 and smaller

mit Sperre und verdrehtem Schluss
Nahtmaterialgröße: 5/0 und kleiner

210 mm, 8 1/4"



1/1

FM276R

without catchand streamline box lock
Suture size: 5/0 and smaller

ohne Sperre und verdrehtem Schluss
Nahtmaterialgröße: 5/0 und kleiner

210 mm, 8 1/4"

DIA DUST®

DIA DUST®



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Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.





1/1

BM301R	BM325R	BM302R	BM327R	BM328R
140 mm	160 mm	180 mm	220 mm	250 mm
5 1/2"	6 1/4"	7"	8 3/4"	10"

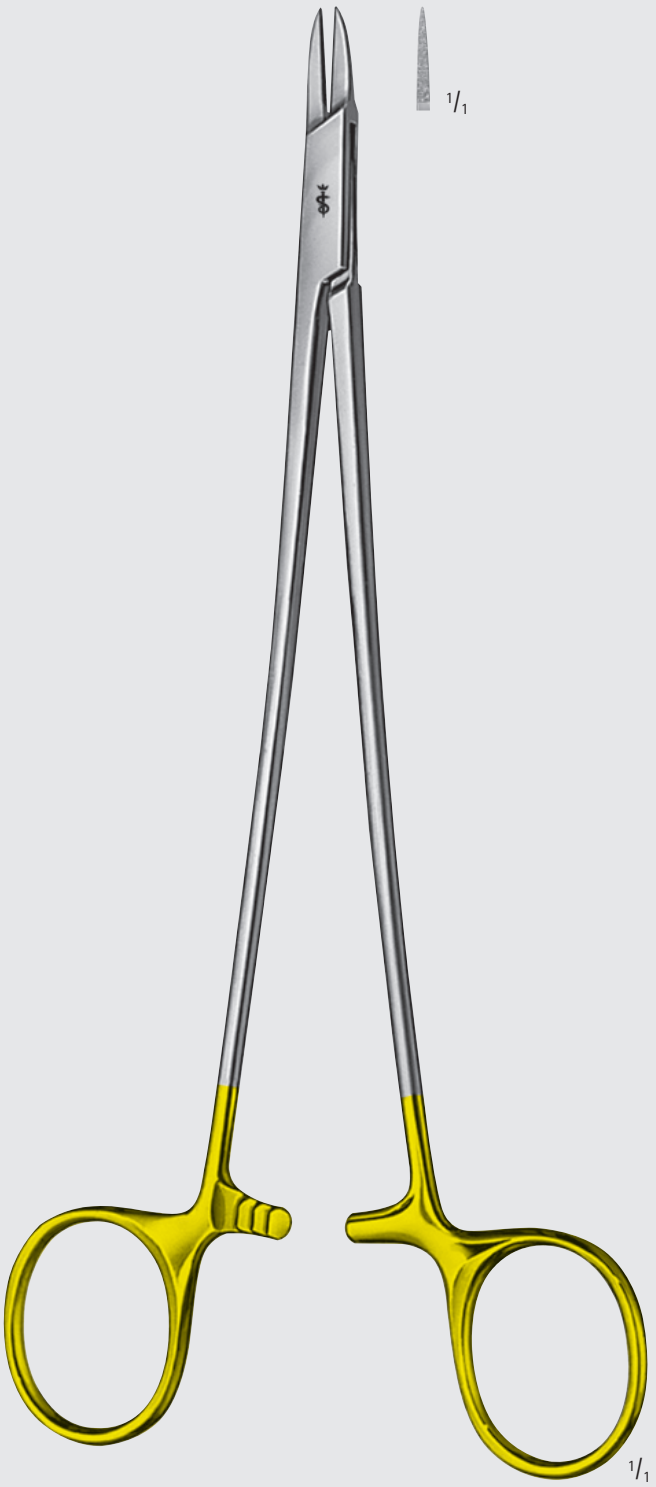
RYDER

BM301R–BM328R

Suture size: 5/0 and smaller

Nahtmaterialgröße: 5/0 und kleiner

- The broad back of the jaw exerts greater force on the needle, facilitating a secure hold.
- Der breite Maul-Rücken bringt mehr Kraft auf die Nadel und ermöglicht somit ein sicheres Fassen der Nadel.



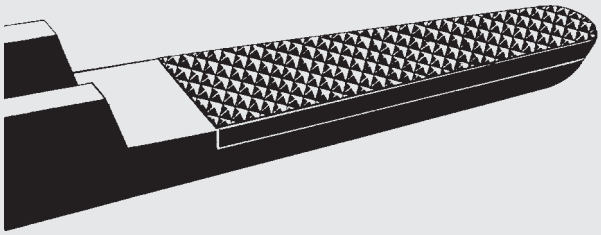
BM300R

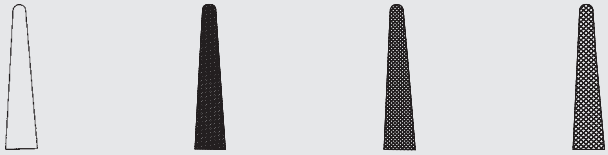
195 mm, 7 3/4"

Micro Instruments – Mikro-Instrumente

DUROGRIP® Micro Needle Holders with Tungsten Carbide Inserts

DUROGRIP® Mikro-Nadelhalter mit Hartmetalleinlagen





smooth
glatt

0.2

0.4

0.5

Aesculap needle holders have jaws with carbide inserts and according to the use required the resp. structure can be chosen. A smooth jaw surface as well as 3 different serrations guarantee a safe „grip" of the resp. needle.

Aesculap Nadelhalter sind durch die Struktur der Hartmetall-Maulteile auf das jeweilige, indikationsbezogene Nahtmaterial abgestimmt. Eine glatte Maulfläche sowie 3 verschiedene Haftprofile garantieren den sicheren „Grip" der jeweiligen Nadel.

We recommend carbide inserts

with smooth jaw surface for suture material	9/0 – 11/0
with 0.2 mm pitch of serration for suture material	6/0 – 10/0
0.4 mm	4/0 – 6/0
0.5 mm	up to 3/0

Wir empfehlen Hartmetall-Maulteile

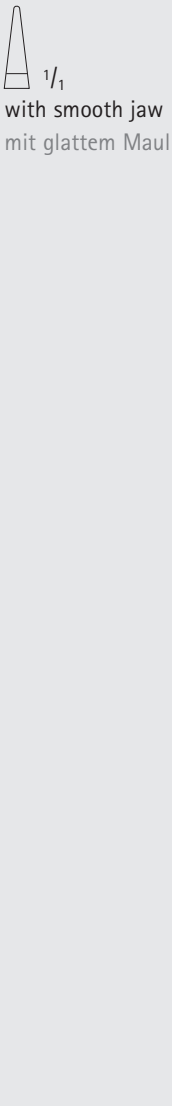
mit glatter Fläche für Nahtmaterial	9/0 – 11/0
mit Teilung 0,2 mm für Nahtmaterial	6/0 – 10/0
0,4 mm	4/0 – 6/0
0,5 mm	bis 3/0

DUROGRIP® Needle holders with carbide inserts
Identification:

- **gold-plated rings, handle ends and ratchets**

DUROGRIP® Nadelhalter mit Hartmetall-Plättchen
Kennzeichnung:

- Vergoldete Ringe, Branchenenden und Sperren



1/1

with smooth jaw
mit glattem Maul

1/1

CASTROVIEJO

BM001R

with catch
mit Sperre
145 mm, 5 3/4"



1/1

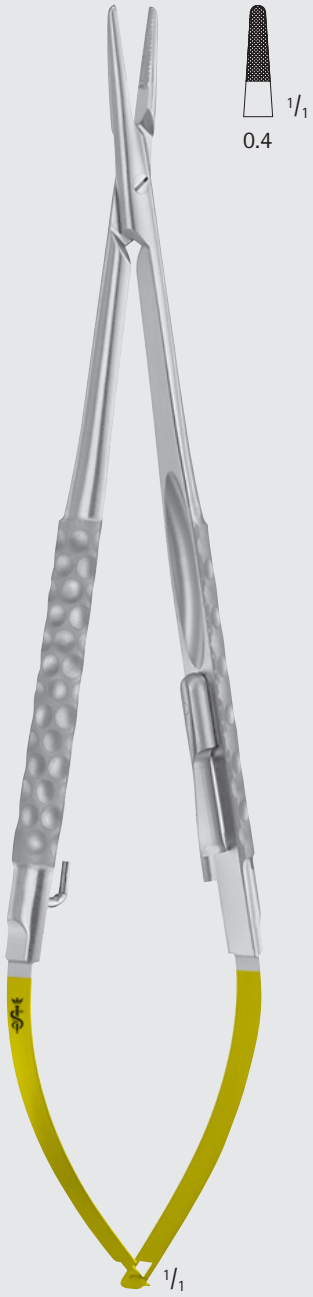
0.2

1/1

CASTROVIEJO

BM002R

with catch
mit Sperre
145 mm, 5 3/4"



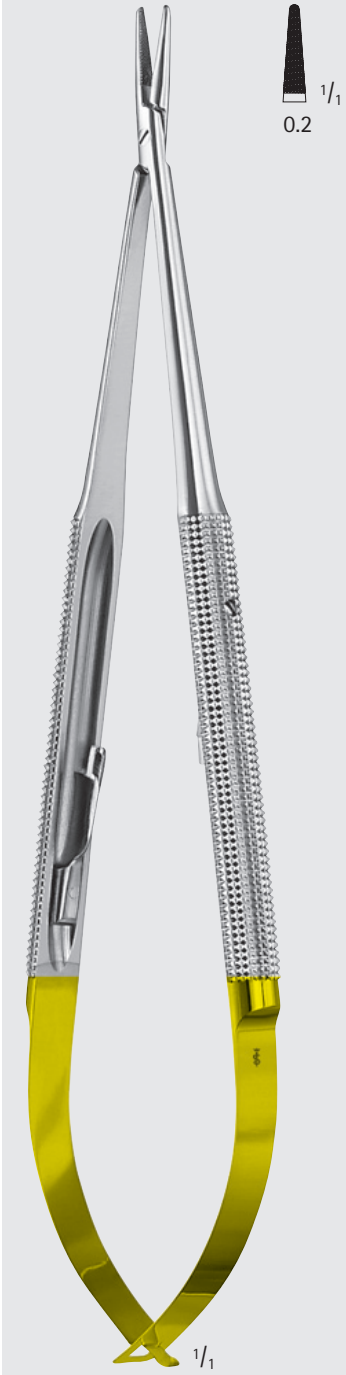
BM003R
with catch
mit Sperre
170 mm, 6 3/4"



CASTROVIEJO
BM004R
with catch
mit Sperre
180 mm, 7"



CASTROVIEJO
BM005R
with catch
mit Sperre
215 mm, 8 1/2"



FM388R
with catch
mit Sperre
180 mm, 7"

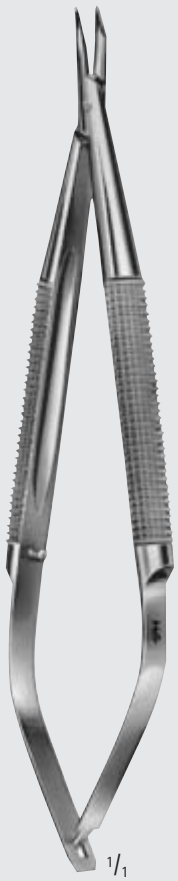


FM390R
with catch
mit Sperre
200 mm, 8"

Micro Instruments – Mikro-Instrumente

Micro Needle Holders with Smooth Jaws

Mikro-Nadelhalter mit glattem Maul



BM560R
115 mm
4 1/2"

1/1
BM562R
120 mm
4 3/4"

1/1

BARRAQUER

BM560R–BM562R

without catch

ohne Sperre



FD230R

1/1
FD231R

1/1

BARRAQUER

FD230R–FD231R

without catch

ohne Sperre

120 mm, 4 3/4"



FD232R

1/1
FD233R

1/1

BARRAQUER

FD232R–FD233R

with catch

mit Sperre

120 mm, 4 3/4"



FD240R FD241R

REILL

FD240R-FD241R

without catch

ohne Sperre

150 mm, 6"



FD242R FD243R

FD242R-FD243R

with catch

mit Sperre

150 mm, 6"

Micro Instruments – Mikro-Instrumente

Micro Needle Holders with Smooth Jaws

Mikro-Nadelhalter mit glattem Maul



FD244R

FD245R 1/1

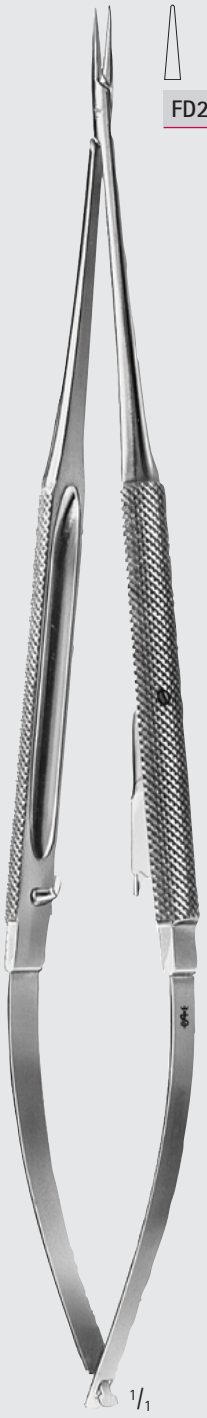
1/1

FD244R-FD245R

without catch

ohne Sperre

185 mm, 7 1/4"



FD246R

FD247R 1/1

1/1

FD246R-FD247R

with catch

mit Sperre

185 mm, 7 1/4"



FM398R

without catch

ohne Sperre

200 mm

8"

FM392R 1/1

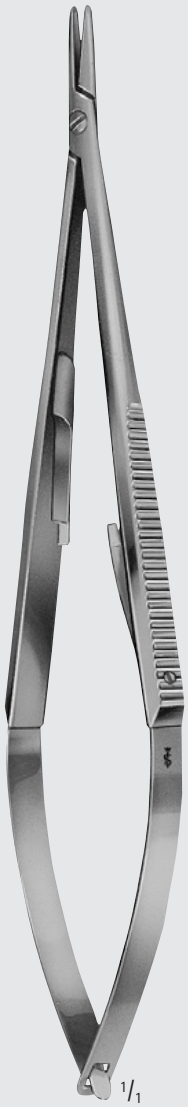
with catch

mit Sperre

230 mm

9"

FM392R-FM398R



BM563R



BM564R

CASTROVIEJO

BM563R-BM564R

with catch

mit Sperre

145 mm, 5 3/4"



FD076R



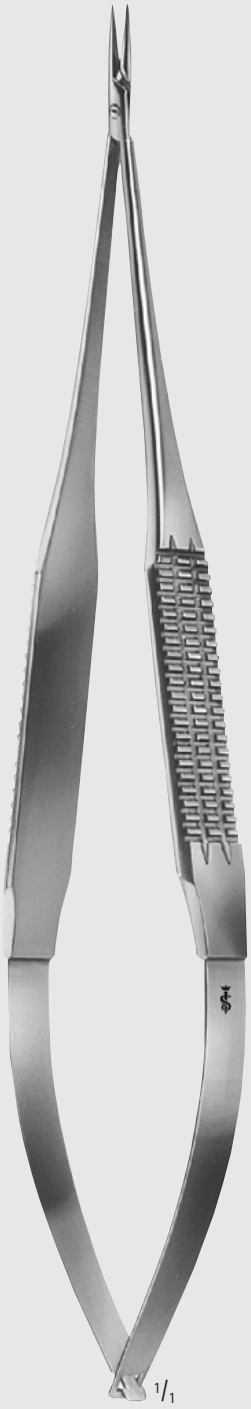
FD079R

FD076R-FD079R

without catch

ohne Sperre

160 mm, 6 1/4"





FD080R FD081R

FD080R-FD081R
without catch
ohne Sperre
185 mm, 7 1/4"



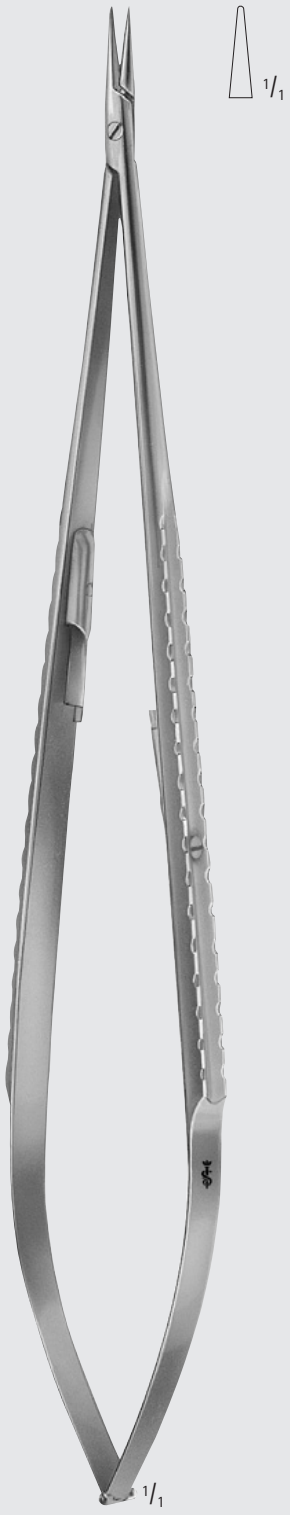




FD045R without catch ohne Sperre
FD046R with catch mit Sperre

JACOBSON

FD045R-FD046R
185 mm, 7 1/4"



FD048R
with catch
mit Sperre
200 mm, 8"

MILLIMETERS

Micro Instruments – Mikro-Instrumente

Micro Needle Holders with Smooth Jaws

Mikro-Nadelhalter mit glattem Maul



The MÜLLER Micro instrument system

- A top quality set for peripheral microsurgery.
  Numerous details tried and tested in practice mean increased efficiency and safety.
- Natural holding position = increased sensitivity
  The light plastic profile increases the grip surface, thus guaranteeing a natural hand position without cramping and providing enhanced sensitivity.
- Easier rotation = extended working area
  The round grip cross section permits easy and uniform rotation of the instrument. This extends the application and working areas.
- Safe grip
  The easy grip studded profile guarantees a secure hold for all movements.
- Optimum handling
  Development in accordance with ergonomic criteria and the low weight of the new plastic grips provide fatiguefree working and optimum handling.

Das MÜLLER Mikro-Instrumentarium

- Ein hochwertiges Set für die periphere Mikrochirurgie.
  Zahlreiche praxisbewährte Details führen zu mehr Effektivität und Sicherheit.
- Unverkrampfte Haltung = mehr Feingefühl
  Das leichte Kunststoffprofil vergrößert die Griffoberfläche, gewährleistet dadurch eine unverkrampfte Handhaltung und verleiht mehr Feingefühl.
- Leichteres Drehen = erweiterter Arbeitsbereich
  Der runde Griffquerschnitt ermöglicht leichtes, gleichmäßiges Drehen des Instrumentes. Verwendungs- bzw. Arbeitsbereich wird dadurch erweitert.
- Sicherer Halt
  Das griffige Noppenprofil gewährleistet einen durchweg sicheren Halt bei sämtlichen Bewegungsabläufen.
- Optimales Handling
  Eine Entwicklung nach ergonomischen Gesichtspunkten, verbunden mit dem geringen Gewicht der neuen Kunststoffgriffe schaffen die Voraussetzung zu ermüdungsfreiem Arbeiten und optimalem Handling.



MÜLLER

FM021R

145 mm, 5 3/4"

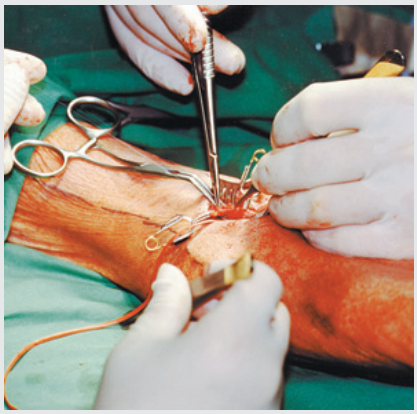


MÜLLER

FM061R

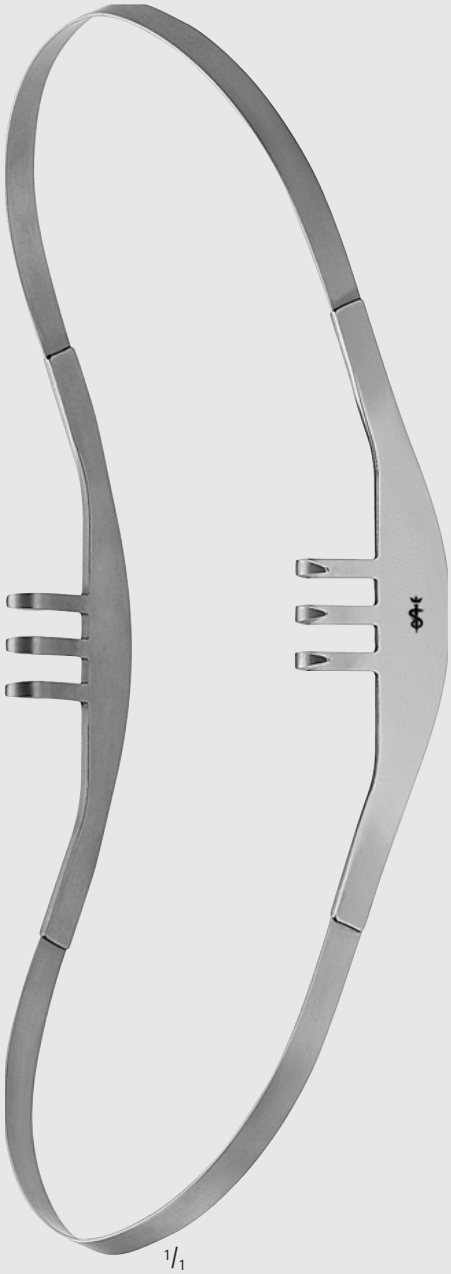
180 mm, 7"





The shunt instruments were developed especially for operations on vessels that are between 4 and 6 mm in diameter.
This width is frequently found in dialysis shunt operations and re-operations. These instruments combine the features of conventional instruments and micro instruments. The working tips are larger than usual for instruments of this type, and the micro instrument style handles make the instruments better to use.

Die Shunt Instrumente wurden speziell für Operationen an Gefäßen mit einem Durchmesser zwischen 4 und 6 mm entwickelt.
Besonders häufig tritt dieser Gefäßdurchmesser bei der Anlage oder Revision von Dialyseshunts auf. Bei den vorliegenden Instrumenten handelt es sich um eine Synthese von konventionellen Instrumenten und Mikroinstrumenten. Die Arbeitsenden wurden entsprechend dem Gefäßdurchmesser etwas größer gewählt, das Griffdesign entspricht einem Mikroinstrument um eine bessere Handhabung zu ermöglichen.

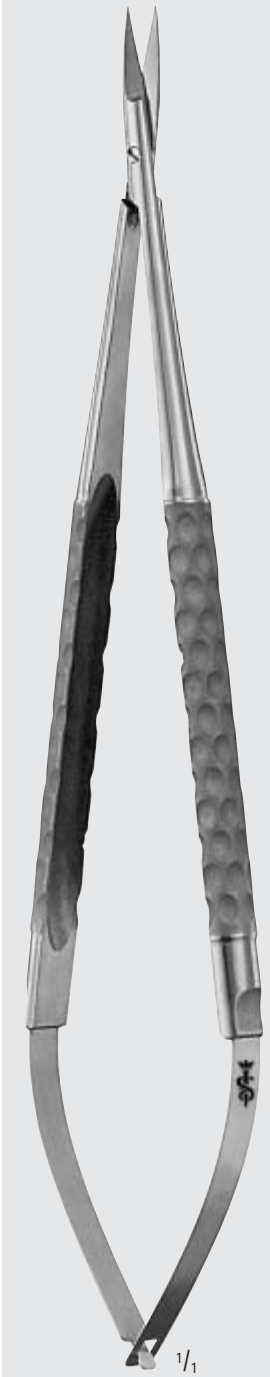


1/1

BV059R
Self-retaining retractor
Wundspreizer
160 mm, 6 1/4"

The shunt set was developed in cooperation with
Prof. Dr. med. Gottfried Müller, M.D.
Caritas Krankenhaus Bad Mergentheim
Uhlandstrasse 7
97980 Bad Mergentheim

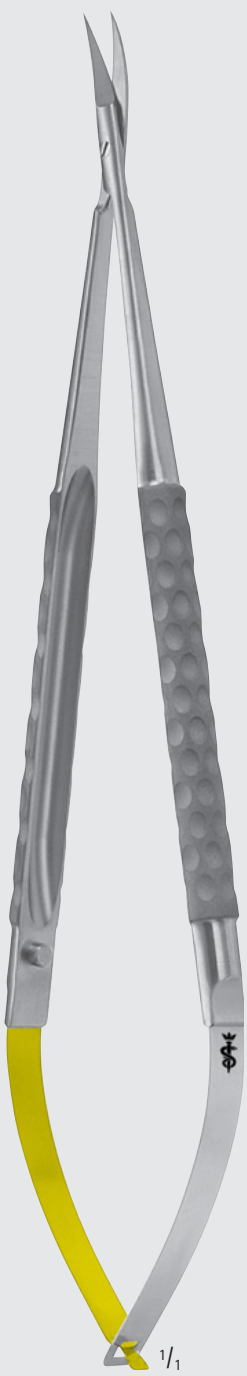
Entwickelt in Zusammenarbeit mit
Prof. Dr. med. Gottfried Müller
Caritas Krankenhaus Bad Mergentheim
Uhlandstraße 7
97980 Bad Mergentheim



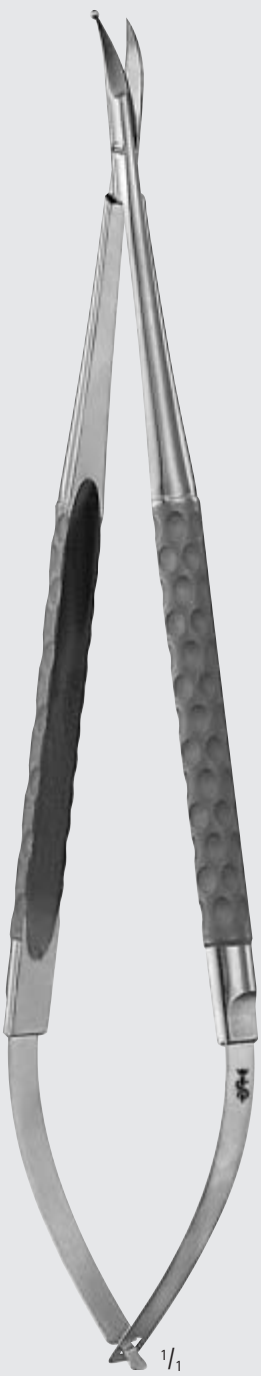
FM042R
Micro scissors
straight, sharp/sharp
Mikro-Schere
gerade, spitz/spitz
180 mm, 7"



FD251R
Micro scissors
curved, sharp/sharp
Mikro-Schere
gebogen, spitz/spitz
180 mm, 7"



FD252R
Micro ligature scissors
for suture material 6/0 - 8/0
curved, sharp/sharp,
1 blade serrated
Mikro-Fadenschere
für Nahtmaterial von 6/0 - 8/0
gebogen, spitz/spitz,
1 Blatt gezahnt
180 mm, 7"



FM043R
Micro scissors
curved, 1 blade
probe pointed
Mikro-Schere
gebogen, 1 Blatt
mit Knopf
180 mm, 7"

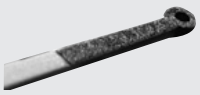
Micro Instruments – Mikro-Instrumente

Instruments for Shunt Operations

Spezialinstrumentarium für die Anlage von AV-Shunts

DIA DUST®





The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.





1/1

Diam. of ring: 2 mm

Ring-Ø: 2 mm

FM047R

Micro ring forceps

Mikro-Ringpinzette

180 mm, 7"

1/1





1/1

Diam. of ring: 1 mm

Ring-Ø: 1 mm

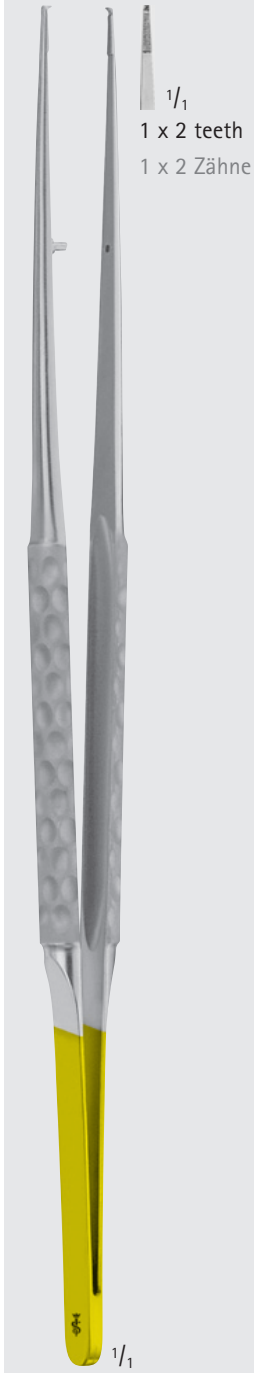
FM572R

Micro ring forceps

Mikro-Ringpinzette

185 mm, 7 1/4"

1/1

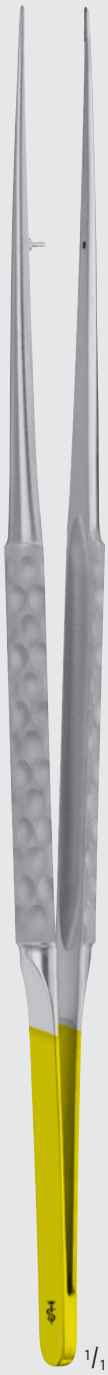


1/1

1 x 2 teeth
1 x 2 Zähne

1/1

FD255R
Micro tissue forceps
Chirurgische Mikro-Pinzette
180 mm, 7"

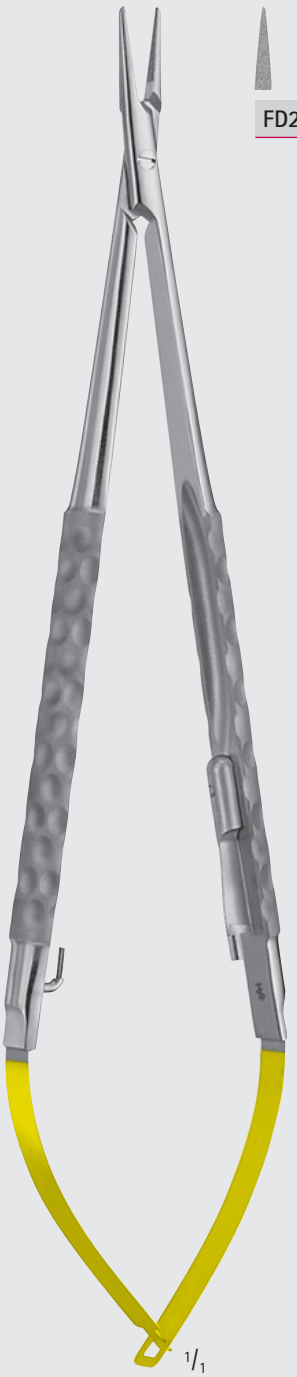


1/1

with platform tip
mit Plateau

1/1

FD253R
Micro dissecting forceps
Anatomische Mikro-Pinzette
180 mm, 7"

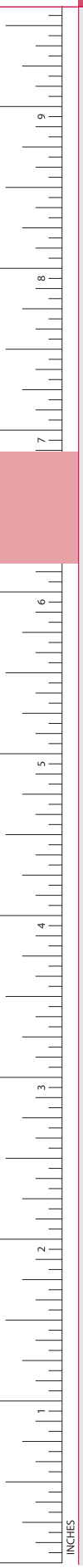


FD258R FD259R

1/1

1/1

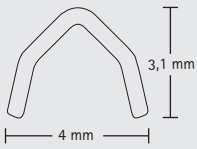
FD258R–FD259R
Micro needle holder with catch
Suture size: 7/0 and smaller
Mikro-Nadelhalter mit Sperre
Nahtmaterialgröße: 7/0 und kleiner
180 mm, 7"

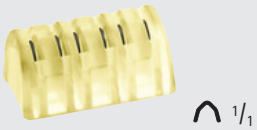

INCHES
1
2
3
4
5
6
7
8
9

Vascular
Gefäß



Vascular Instruments
Gefäßinstrumente





PL565T

Titanium ligating clips
small (yellow)
Sales unit:
PAK = 30 cartridges with 6 clips = 180 clips

Titan-Ligatur-Clips
small (gelb)
Bestelleinheit:
PAK = 30 Magazine à 6 Clips = 180 Clips

PL566T

Cardiopack
Titanium ligating clips
small (yellow)
Sales unit:
PAK = 8 cartridges with 24 clips = 192 clips

Cardiopack
Titan-Ligatur-Clips
small (gelb)
Bestelleinheit:
PAK = 8 Magazine à 24 Clips = 192 Clips





FB222R

Clip applier
small (yellow)

Clipanlegezange
small (gelb)

150 mm, 6"





FB223R
25°

FB226R
65°

1/1

1/2

FB223R–FB226R

Clip appliers
small (yellow)

Clipanlegezangen
small (gelb)

203 mm, 8"





FB224R
25°

FB227R
65°

1/1

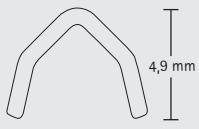
1/2

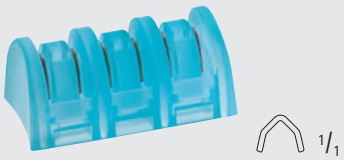
FB224R–FB227R

Clip appliers
small (yellow)

Clipanlegezangen
small (gelb)

280 mm, 11"





PL567T

Titanium ligating clips
medium (blue)
Sales unit:
PAK = 30 cartridges with 6 clips = 180 clips

Titan-Ligatur-Clips
medium (blau)
Bestelleinheit:
PAK = 30 Magazine à 6 Clips = 180 Clips



FB234R

Clip applier
medium (blue)

Clipanlegezange
medium (blau)

150 mm, 6"

MEDIUM



1/2



1/1

FB235R
25°

FB238R
65°

FB235R–FB238R

Clip appliers
medium (blue)

Clipanlegezangen
medium (blau)

203 mm, 8"



1/2



1/1

FB236R
25°

FB239R
65°

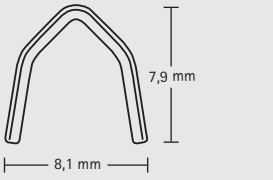
FB236R–FB239R

Clip appliers
medium (blue)

Clipanlegezangen
medium (blau)

280 mm, 11"

MILLIMETERS





PL568T

Titanium ligating clips
medium-large (green)
Sales unit:
PAK = 20 cartridges with 6 clips = 120 clips

Titan-Ligatur-Clips
medium-large (grün)
Bestelleinheit:
PAK = 20 Magazine à 6 Clips = 120 Clips





FB240R
25°

FB243R
65°

FB254R
90°

FB240R–FB254R

Clip appliers
medium-large (green)

Clipanlegezangen
medium-large (grün)

203 mm, 8"

MEDIUM-LARGE





FB242R
25°

FB245R
65°

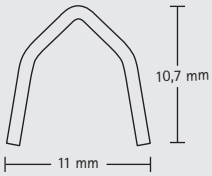
FB255R
90°

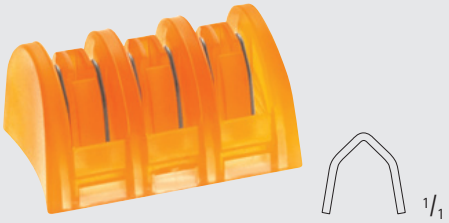
FB242R–FB255R

Clip appliers
medium-large (green)

Clipanlegezangen
medium-large (grün)

280 mm, 11"





PL561T

Titanium ligating clips
large (orange)
Sales unit:
PAK = 20 cartridges with 6 clips = 120 clips

Titan-Ligatur-Clips
large (orange)
Bestelleinheit:
PAK = 20 Magazine à 6 Clips = 120 Clips





FB246R
25°

FB249R
65°

FB252R
90°

FB246R–FB252R

Clip appliers
large (orange)

Clipanlegezangen
large (orange)

203 mm, 8"

LARGE



1/2



1/1

FB248R
25°

FB251R
65°

FB253R
90°

FB248R–FB253R

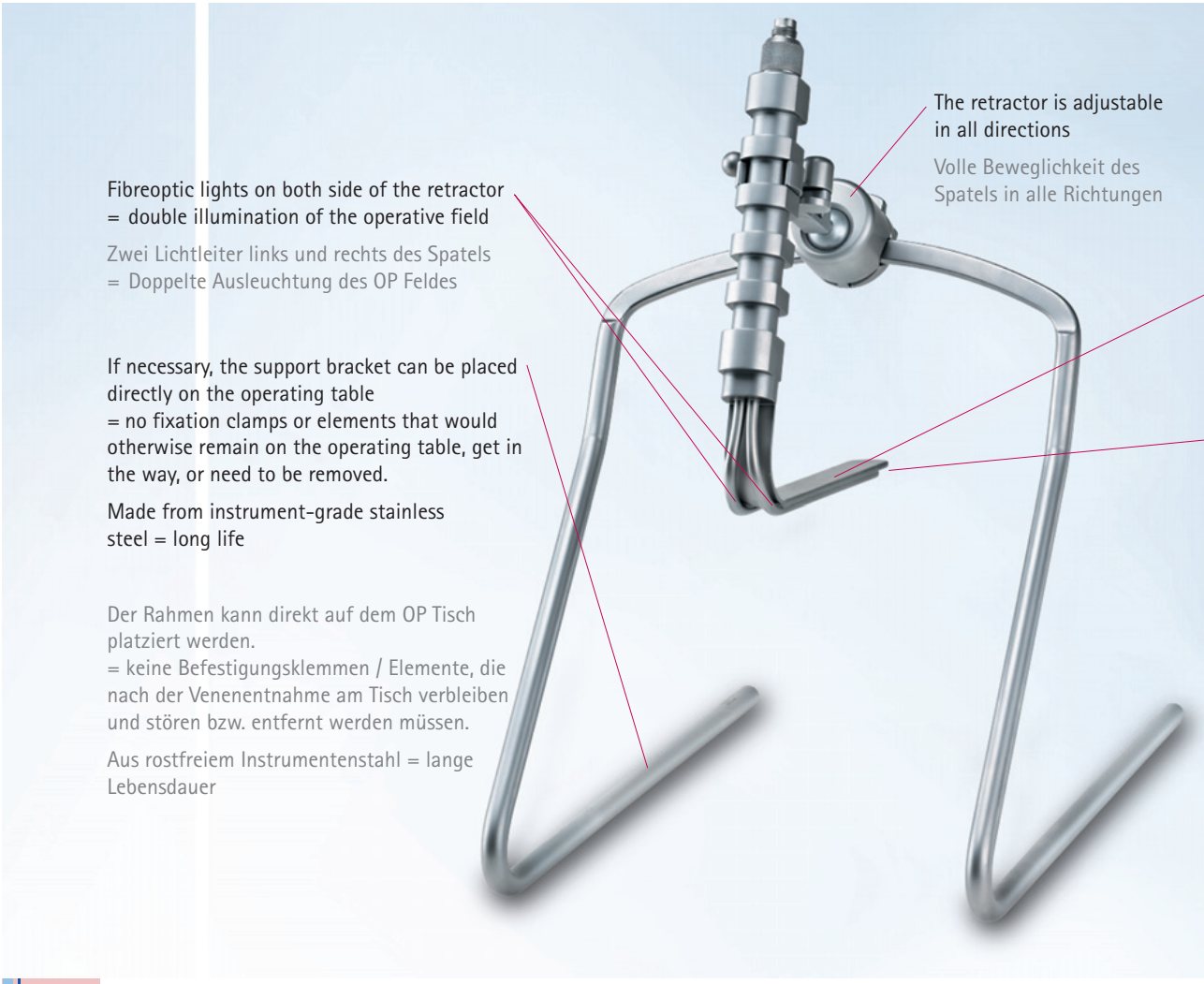
Clip appliers
large (orange)

Clipanlegezangen
large (orange)

280 mm, 11"

MILLIMETERS

Vega System for Minimal Invasive Vein Harvesting
Vega System zur minimalinvasiven Venenentnahme



The VEGA system is used for minimally invasive harvesting of veins, particularly of the greater saphenous vein. A semi-open operating technique ensures that the quality of the dissected vein is unimpaired and that the harvesting procedure is safe for the patient. The quality of the dissected vein is comparable with that obtained using a conventional (open) harvesting technique.

Advantages of the VEGA system:

- Good cosmetic results (2 or 3 small incisions only).
- Simple operative technique because it can be carried out under direct view with conventional instruments.
- Thanks to a special support bracket for the fibre-optic retractor, the operator can harvest the vein unassisted.
- The operator's hands remain free to operate.
- Completely reusable system; no disposable elements.

Das VEGA System dient zur minimalinvasiven Venenentnahme, speziell der Vena Saphena Magna. Durch eine halboffene Technik ist es möglich die Vene mit uneingeschränkter Qualität und dennoch patientenschonend zu entnehmen. Die Venenqualität ist mit der einer konventionellen (offenen) Entnahme vergleichbar.

Die Vorteile des VEGA Systems:

- Gutes kosmetisches Ergebnis (2-3 kleine Inzisionen).
- Einfache OP Technik, da unter direkter Sicht mit konventionellen Instrumenten gearbeitet wird.
- Dank eines speziellen Haltebügels für den Leuchtspatel kann die Venenentnahme von einem Operateur alleine durchgeführt werden.
- Die Hände bleiben frei zum Operieren.
- Vollkommen wiederverwendbares System ohne Einmalelemente.

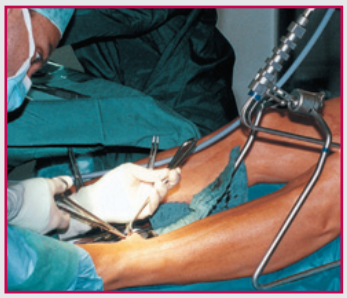
Retractor with fibreoptic light on the side = optimized use at available space

Spatel mit außen liegendem Lichtleiter = Optimierte Raumausnutzung

Fibreoptic light comes out close to the retractor tip = full illumination where it's needed without the encumbrance of diffuse light

Lichtleiteraustritt in der Nähe der Spatelspitze = volle Beleuchtung dort wo sie benötigt wird, kein irritierendes Streulicht

Operative procedure – Operationsablauf



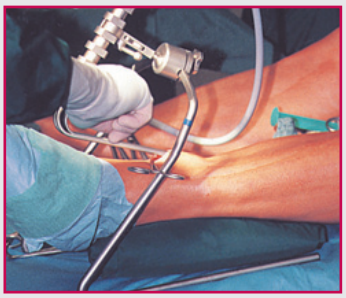
1) Perform small incision in ankle/lower leg. Insert fibreoptic retractor

Kleine Inzision am Unterschenkel/-knöchel. Einführen des Leuchtspatels.



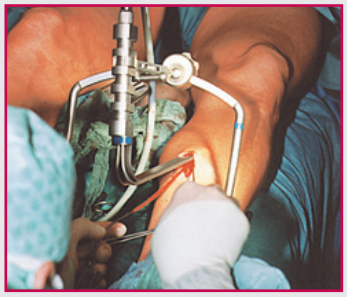
2) Dissect first vein segment

Präparieren des ersten Venenabschnitts.



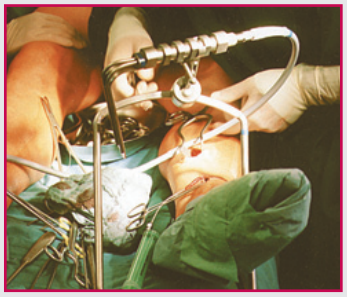
3) Attach retractor to support bracket

Verbinden des Retraktors mit der Haltevorrichtung.



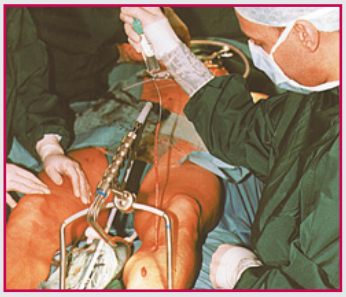
4) Dissect along the vein subcutaneously using the vein dissectors

Präparieren entlang der Vene mit dem Venendissektor, unterhalb der Haut.



5) Perform a second incision in the knee region. Repeat steps 1-5 from the knee downwards

Zweiter Einschnitt in der Kniegegend. Durchführen der oben beschriebenen Schritte kniewärts.



6) Examine dissected vein

Die freipräparierte Vene wird überprüft.



7) Close small incisions

Die kleinen Einschnitte werden verschlossen.



FC090R

Tunneler complete,
consisting of:
FC091R Support bracket
FC092R Fibreoptic retractor, 140 x 160 mm

Tunneler komplett,
bestehend aus:
FC091R Spatel Fixierrahmen
FC092R Leuchtspatel, 140 x 160 mm





	Diam. Ø	Length Länge
OP906	4.8 mm	1.8 m
OP913	4.8 mm	2.5 m
OP914	4.8 mm	3.5 m

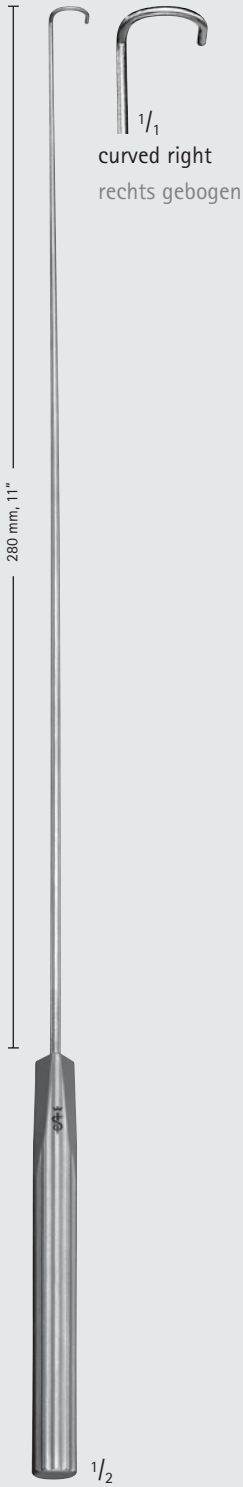
Fibre optic light cable,
steam-sterilizable up to 2 bar (134° C)

Fiberglas-Lichtkabel,
dampfsterilisierbar bis 2 bar (134° C)



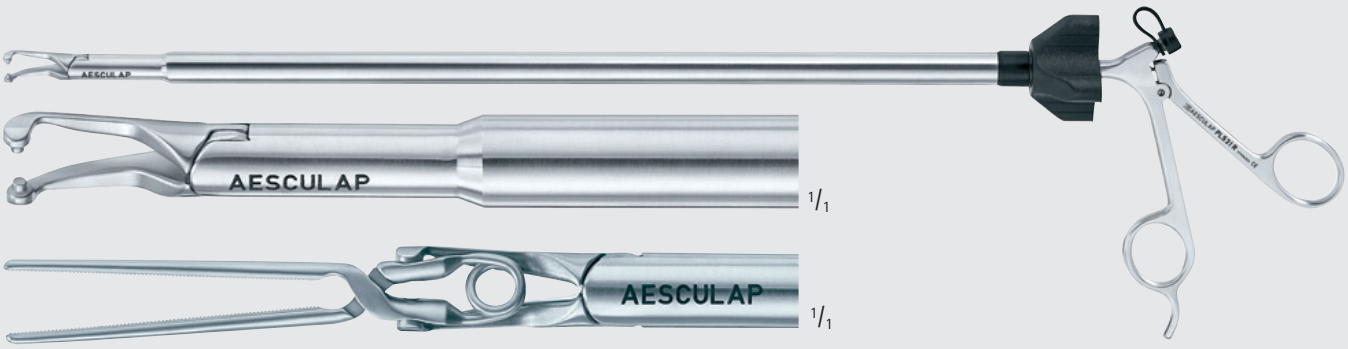
FC093R

Vein dissector
Venen-Dissektor
280 mm, 11 "



FC094R

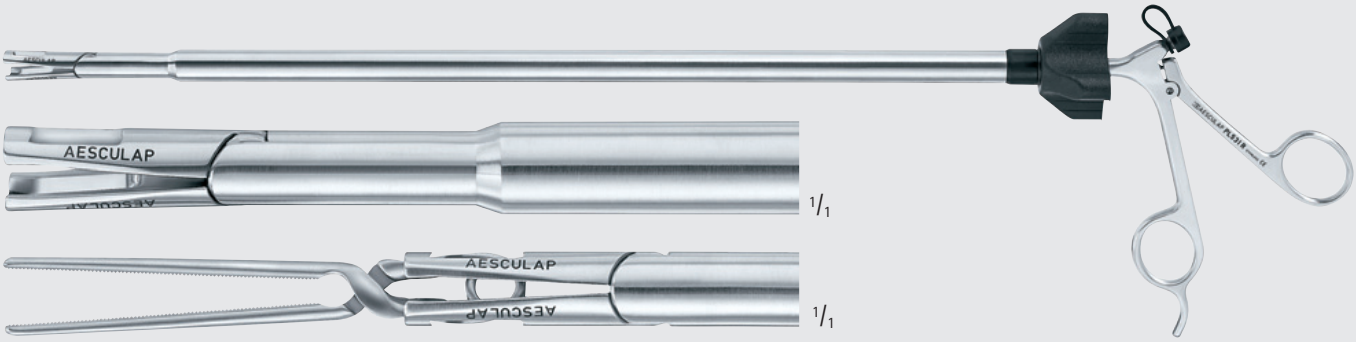
Vein dissector
Venen-Dissektor
280 mm, 11"



	Diam. Ø	Shaft length Schaftlänge
PL530R	12.5 mm	350 mm

Applier/Remover
for endo vessel clip,
clip can be at an angle

Anlege- / Abnehmezange
für Endo-Gefäßclip,
Clip abwinkelbar



	Diam. Ø	Shaft length Schaftlänge
PL531R	12.5 mm	350 mm

Applier/Remover
for endo vessel clip,
aligned clip only

Anlege- / Abnehmezange
für Endo-Gefäßclip,
Clip nicht abwinkelbar

Atraumatic endo vessel clips (temporary) with toothing DeBakey

- Venous endoscopic vessel clips with reduced closing force are especially marked at the end (gold).

Atraumatische Endo-Gefäßclips (temporär) mit DeBakey-Zahnung

- Venöse endoskopische Gefäßclips mit reduzierten Schließkräften sind über ein farbkodiertes Ende (gold) besonders gekennzeichnet.



	Jaw length Maullänge	Closing force Schließkraft	Jaw type Maulform	Color coding Farbcodierung
PL542S	25 mm	2.45 N	straight/gerade	gold/gold
PL543S	45 mm	2.94 N	straight/gerade	gold/gold
PL544S	25 mm	3.43 N	straight/gerade	-
PL545S	45 mm	4.41 N	straight/gerade	-



	Jaw length Maullänge	Closing force Schließkraft	Jaw type Maulform	Color coding Farbcodierung
PL546S	25 mm	2.45 N	curved/gebogen	gold/gold
PL547S	45 mm	2.94 N	curved/gebogen	gold/gold
PL548S	25 mm	3.43 N	curved/gebogen	-
PL549S	45 mm	4.41 N	curved/gebogen	-

Vascular Instruments – Gefäßinstrumente

Mini Vascular Clips and Approximators

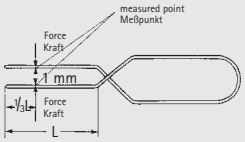
Mini-Gefäßclips und Approximatoren

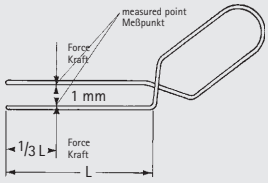
for temporary occlusion

- Blade gripping surface with oblique serrations for safe but careful gripping of vessels.
- No risk due to rigidly fixed pressure measure guarantees application without any risk.
- Closing force is measured at $^1/_3$ of the blades at 1 mm opening (see illustration).

für temporären Gebrauch

- Maulinnenflächen schräg gerieft, für schonendes, sicheres Festhalten der Gefäße.
- Der fest eingestellte Schließdruck gewährt risikofreie Anwendung.
- Schließkraft-Ermittlung: bei $^1/_3$ der Gesamtmaullänge von vorn und einer Maulöffnung von 1 mm (siehe Zeichnung).





BIEMER

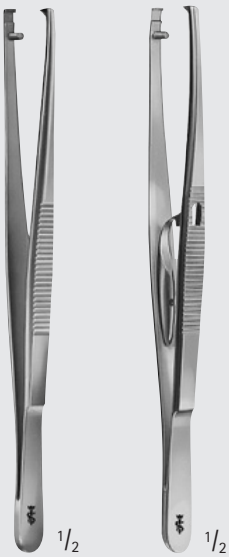
	Jaw opening Maul-öffnung	Jaw length Maul-länge	Closing force Schließkraft	Applying forceps Anlege-pinzette
FD560R	4 mm	6 mm	30 - 40 g (0.29 - 0.39 N)	FD568R
FD561R	5 mm	9 mm	30 - 40 g (0.29 - 0.39 N)	or / oder
FD562R	5 mm	9 mm	20 - 25 g (0.20 - 0.25 N)	FD569R

(identified by yellow colored spring ends)
for vessels diam. 0.5 - 2.0 mm
(gekennzeichnet durch gelb gefärbte Federenden)
für Gefäße mit Ø 0,5 - 2,0 mm

MEHDORN

	Jaw opening Maul-öffnung	Jaw length Maul-länge	Closing force Schließkraft	Applying forceps Anlege-pinzette
FD552R	4 mm	1.0 mm	10 - 15 g (0.10 - 0.15 N)	FD578R
FD554R	4 mm	1.4 mm	15 - 20 g (0.15 - 0.20 N)	
FD556R	6 mm	1.0 mm	10 - 15 g (0.10 - 0.15 N)	
FD558R	6 mm	1.4 mm	15 - 20 g (0.15 - 0.20 N)	

(identified by yellow colored spring ends)
for vessels diam. 0.5 - 1.5 mm
(gekennzeichnet durch gelb eingefärbte Federenden)
für Gefäße mit Ø 0,5 - 1,5 mm



FD568R
without lock
ohne Schloss

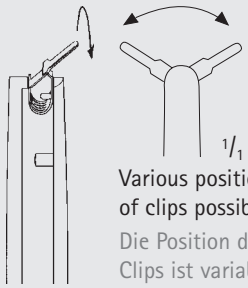
FD569R
with lock
mit Schloss

BIEMER

FD568R–FD569R

Applying forceps for BIEMER vessel clips and BIEMER-MÜLLER and MÜLLER approximators
Anlegepinzetten für Gefäßclips nach BIEMER und Approximatoren nach BIEMER-MÜLLER und MÜLLER
140 mm, 5 $^1/_2$"





Various positions of clips possible
Die Position des Clips ist variabel

MEHDORN

FD578R

Applying forceps for MEHDORN vessel clips
Anlegepinzette für Gefäßclips nach MEHDORN
150 mm, 6"

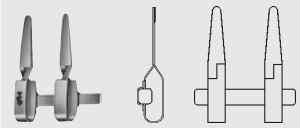
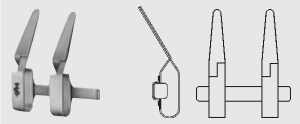
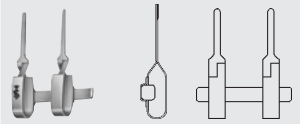
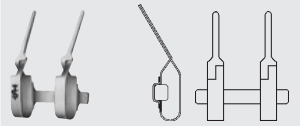
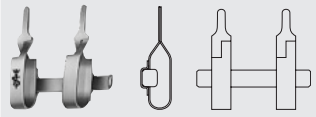
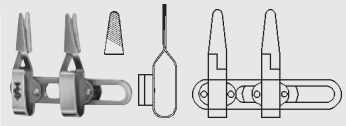
For micro vessel anastomosis in the superficial range

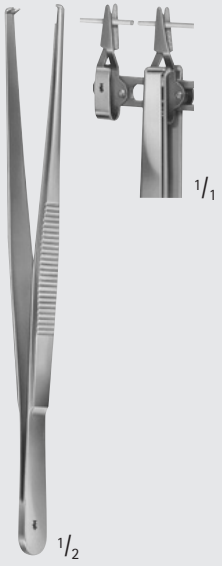
- Blade gripping surface with oblique serrations for careful but safe holding of the vessel ends.
- No risk due to rigidly fixed pressure measure.
- Adjustable distance between the clips and automatic fixation by tilting.
- Even when applied, the lightweight construction allows easy, distortionless turning and makes suturing possible on the other side of the vessel.

Für Mikro-Gefäßanastomosen im oberflächlichen Bereich

- Maulinnenflächen schräg gerieft, für schonendes, sicheres Festhalten der Gefäßenden.
- Der fest eingestellte Schließdruck garantiert risikofreie Anwendung.
- Der Abstand zwischen den Clips ist durch einfaches Verschieben variabel und wird durch Verkantung selbsttätig fixiert.
- Die leichte Konstruktion (geringes Gewicht, kleine Dimension) ermöglicht im angelegten Zustand einfaches, verzerrungsfreies Umdrehen, um auf der unteren Gefäßseite weiterzunähen.

BIEMER-MÜLLER

Micro approximators Mikro-Approximatoren		Jaw opening Maul-öffnung	Jaw length Maul-länge	Closing force Schließkraft	Applying forceps Anlege-pinzetten
FD611R		5 mm	9 mm	25 - 30 g (0.25 - 0.29 N)	
FD612R		5 mm	9 mm	25 - 30 g (0.25 - 0.29 N)	
FD613R		5 mm	9 mm	25 - 30 g (0.25 - 0.29 N)	FD568R or / oder FD569R
FD614R		5 mm	9 mm	25 - 30 g (0.25 - 0.29 N)	
FD615R		3 mm	4,5 mm	25 - 30 g (0.25 - 0.29 N)	
BIEMER FD571R		4 mm	6 mm	30 - 40 g (0.29 - 0.39 N)	FD572R



BIEMER

FD572R

Applying forceps for BIEMER vessel approximator

Anlegepinzette für Gefäß-Approximator nach BIEMER

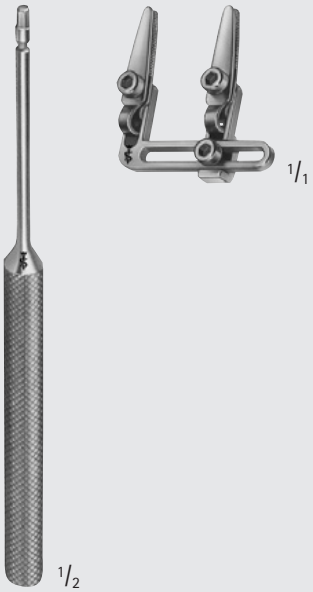
145 mm, 5 3/4"

For micro vessel anastomosis in the deeper range, also for experimental surgery

- Blade gripping surface with oblique serrations for careful but safe holding of the vessel ends.
- The pressure measure is adjusted with key FD576R.
- The distance between the clips is variable and fixed with key FD576R.

Für Mikro-Gefäßanastomosen im tieferen Bereich, außerdem für die experimentelle Chirurgie

- Maulinnenflächen schräg gerieft, für schonendes, sicheres Festhalten der Gefäßenden.
- Der Schließdruck wird mit dem Schlüssel FD576R eingestellt.
- Der Abstand zwischen den Clips ist variabel und wird mit dem Schlüssel FD576R fixiert.



1/1

1/2

FD575R

Approximator complete, with key FD576R

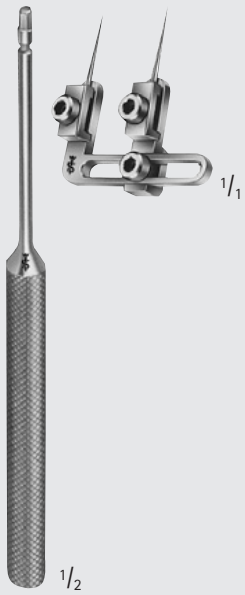
Approximator komplett, mit Schlüssel FD576R

For safe adaption of nerve anastomoses

- Piercing the nerve centre **with fine needles** prevents strong pathological changes.
- Needles can be exchanged with key FD576R.
- Distance between the needles is variable and can be fixed with key FD576R.

Zur sicheren Adaption bei Nervanastomosen

- Das Durchstrecken des Nervenzentrum **mit feinen Nadeln** verhindert stärkere pathologische Veränderungen.
- Nadeln mit Schlüssel FD576R auswechselbar.
- Abstand zwischen den Nadeln variabel und mit Schlüssel FD576R fixierbar.



1/1

1/2

BIEMER

FD635R

Approximator for nerves complete, with key FD576R

Nerv-Approximator komplett, mit Schlüssel FD576R

FD636R

1 pair of spare needles

1 Paar Ersatznadeln



SCHWARTZ

FD628R

Applying forceps
for SCHWARTZ vessel clips

Anlegezange
für Gefäßclips nach SCHWARTZ

190 mm, 7 1/2"

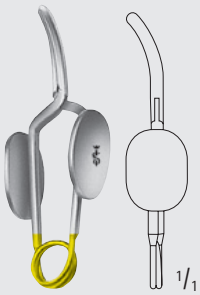
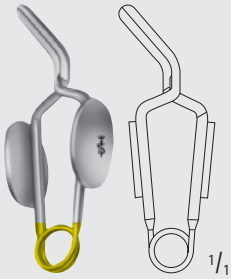
	Total length Gesamtlänge	Jaw length Maullänge	Jaw width Maulbreite	Jaw type Maulform	Closing force Schließkraft
 1/1 **FD622R**	25 mm, 1"	8 mm	2 mm	0°	4.0 N
 1/1 **FD623R**	25 mm, 1"	8 mm	2mm	25°	4.0 N
 1/1 **FD624R**	25 mm, 1"	8 mm	2 mm	45°	4.0 N

SCHWARTZ

FD622R–FD624R

Temporary vessel clips

Temporäre Gefäßclips

Closing force Schließdruck	 straight gerade	 curved gebogen	 curved tips Spitze gebogen	 angled to side zur Seite abgewinkelt	 knee-bent kniegebogen
50 g	FE010K	FE011K	FE012K	FE013K	FE014K
80 g	FE020K	FE021K	FE022K	FE023K	FE024K

MÜLLER

FE010K–FE024K

Atraumatic vessel clips, temporary

Temporäre Gefäßclips mit atraumatischem Maulprofil





jaw profiles,
cross-serrated

Maulprofil fein
kariert

MÜLLER

FE005K

Ligature forceps

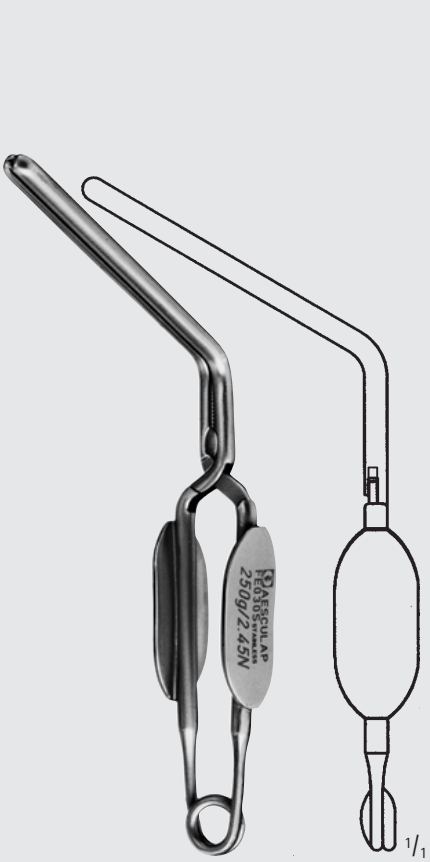
Fadenklemme

MÜLLER Vascular Clips

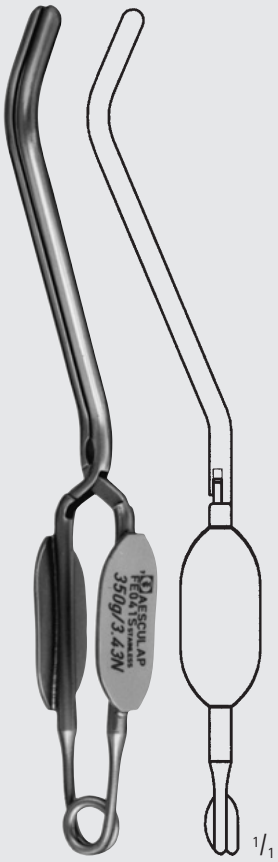
Features:
- Atraumatic jaw profile
- Handle plateau mounted on both sides for secure application and removal of the clip.
- Exactly defined closing pressure for arterial and venous vessels.
- Vascular clips are clearly marked with closing pressure.
- Closed jaw box guarantees precise guidance of the working tips. No risk of threads getting tangled up in the clip.

Gefäßclips nach MÜLLER

Merkmale:
- Atraumatisches Maulprofil
- Beidseitig angebrachte Griffplateaus zum sicheren Anlegen und Abnehmen des Clips.
- Exakt definierter Schließdruck für arterielle und venöse Gefäße.
- Gefäßclips eindeutig mit Schließdruck gekennzeichnet.
- Geschlossener Maulkasten zur sicheren Maulführung. Kein ungewolltes Verfangen des Fadens möglich.



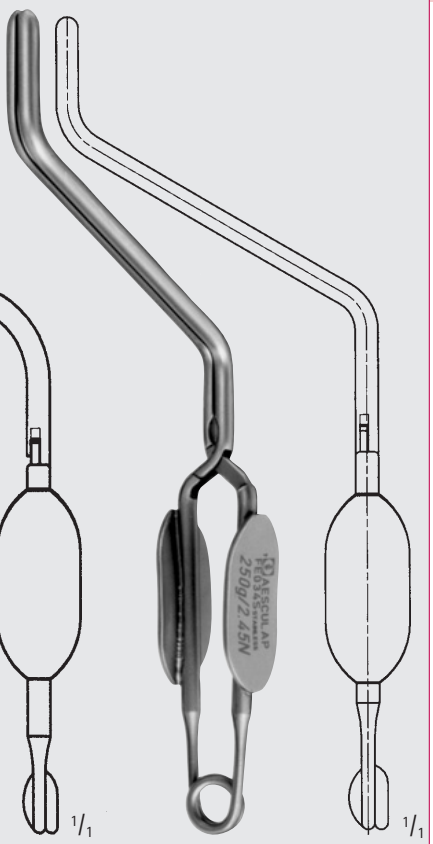
1/1



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1/1



1/1

Closing force Schließkraft	MÜLLER	MÜLLER	MÜLLER	MÜLLER
250 g	FE030S	FE031S	FE032S	FE034S
350 g	FE040S	FE041S	FE042S	FE044S
	straight gerade	curved gebogen	curved tips Spitze gebogen	knee-bent kniegebogen



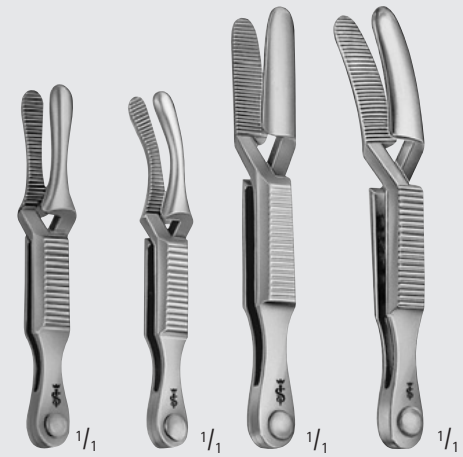
JOHNS-HOPKINS

BH018R

Forceps for applying and removing bulldog clamps BH011R-BH031R and FB420R-FB427R

Zange zum Anlegen und Abnehmen der Bulldogklemmen BH011R-BH031R und FB420R-FB427R

240 mm, 9 3/4"



BH020R **BH021R** **BH026R** **BH027R**
BH022R **BH023R**

DIEFFENBACH

	Total length: / Gesamtlänge:	Length of jaw serration: / Länge der Zahnung:
BH020R	38 mm, 1 1/2"	12 mm, 1/2"
BH022R	48 mm, 2"	16 mm, 5/8"
BH021R	38 mm, 1 1/2"	12 mm, 1/2"
BH023R	48 mm, 2"	16 mm, 5/8"
BH026R	58 mm, 2 1/8"	16 mm, 5/8"
BH027R	58 mm, 2 1/8"	16 mm, 5/8"



BH011R-BH017R

JOHNS-HOPKINS

	Total length: / Gesamtlänge:	Length of jaw serration: / Länge der Zahnung:
BH011R	38 mm, 1 1/2"	12 mm, 1/2"
BH012R	48 mm, 2"	17 mm, 5/8"
BH013R	56 mm, 2 1/8"	25 mm, 1"
BH014R	63 mm, 2 1/2"	30 mm, 1 3/16"
BH015R	70 mm, 2 3/4"	33 mm, 1 1/4"
BH016R	80 mm, 3 1/8"	42 mm, 1 3/4"
BH017R	91 mm,3 1/2"	52 mm, 2"



DE BAKEY-HESS

	BH030R
Jaw length:	20 mm
Maullänge:	3/4"
Total length:	35 mm
Gesamtlänge:	1 3/8"

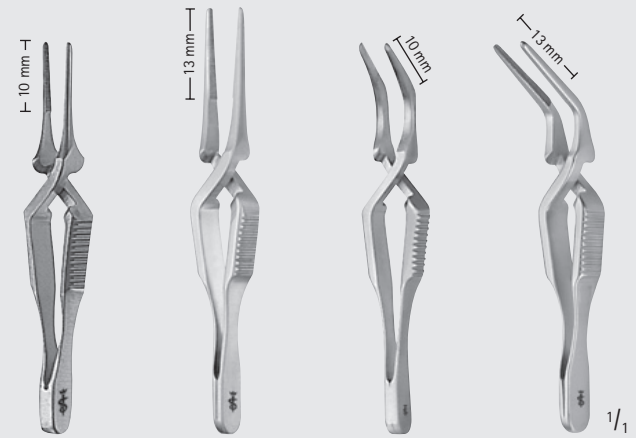


	FB328R	FB329R	FB330R	FB331R
Length of jaw serration:	14 mm	14 mm	19 mm	19 mm
Länge der Zahnung:	1/2"	1/2"	3/4"	3/4"
Total length:	35 mm	35 mm	45 mm	45 mm
Gesamtlänge:	1 3/8"	1 3/8"	1 3/4"	1 3/4"



DE BAKEY-HESS

	BH031R
Jaw length:	30 mm
Maullänge:	1 1/8"
Total length:	40 mm
Gesamtlänge:	1 1/2"

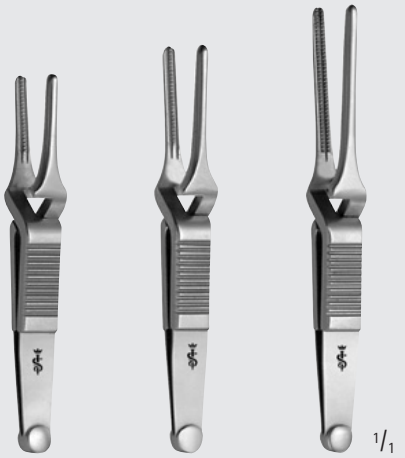


	DIETHRICH MB741R	DIETHRICH MB285R	DIETHRICH BH032R	DIETHRICH BH034R
Jaw length:	16 mm	20 mm	10 mm	13 mm
Maullänge:	5/8"	3/4"	3/8"	1/2"
Total length:	52 mm	55 mm	48 mm	48 mm
Gesamtlänge:	2"	2 1/8"	1 7/8"	1 7/8"

MILLIMETERS

Mini-bulldog clamps
Closing force 180 g
Mini-Bulldogklemmen
Schließdruck 180 g

straight
gerade



	FB362R	FB364R	FB366R
Length of jaw serration:	10 mm	14 mm	20 mm
Länge der Zahnung:	3/8"	1/2"	3/4"
Total length:	50 mm	55 mm	60 mm
Gesamtlänge:	2"	2 1/8"	2 3/8"

Mini-bulldog clamps
Closing force 180 g
Mini-Bulldogklemmen
Schließdruck 180 g

angled, 55°
gewinkelt, 55°

curved
gebogen



	FB363R	FB365R	FB367R	FB369R
Length of jaw serration:	10 mm	14 mm	20 mm	20 mm
Länge der Zahnung:	3/8"	1/2"	3/4"	3/4"
Total length:	45 mm	50 mm	55 mm	55 mm
Gesamtlänge:	1 3/4"	2"	2 1/8"	2 1/8"



	DE BAKEY	DE BAKEY	GLOVER
	FB352R	FB353R	FB431R
Length of jaw serration:	20 mm	20 mm	20 mm
Länge der Zahnung:	3/4"	3/4"	3/4"
Total length:	50 mm	48 mm	52 mm
Gesamtlänge:	2"	1 7/8"	2"



	DE BAKEY	DE BAKEY	DE BAKEY
	FB357R	FB358R	FB359R
Length of jaw serration:	21 mm	42 mm	38 mm
Länge der Zahnung:	3/4"	1 5/8"	1 1/2"
Total length:	75 mm	100 mm	95 mm
Gesamtlänge:	3"	4"	3 1/2"

Vascular Instruments – Gefäßinstrumente

Vascular Clips and Bulldog Clamps
Gefäßclips und Bulldogklemmen

straight
gerade



1/1

curved
gebogen



1/1

	DE BAKEY FB420R	DE BAKEY FB422R	DE BAKEY FB424R	DE BAKEY FB426R	DE BAKEY FB421R	DE BAKEY FB423R	DE BAKEY FB425R	DE BAKEY FB427R
Length of jaw serration:	20 mm	30 mm	45 mm	65 mm	20 mm	30 mm	45 mm	65 mm
Länge der Zahnung:	3/4"	1 1/8"	1 3/4"	2 1/2"	3/4"	1 1/8"	1 3/4"	2 1/2"
Total length:	80 mm	90 mm	105 mm	125 mm	78 mm	86 mm	97 mm	115 mm
Gesamtlänge:	3 1/8"	3 1/2"	4 1/8"	5"	3 1/8"	3 3/8"	3 3/4"	4 1/2"

straight
gerade



1/1

curved
gebogen



1/1

	GLOVER FB432R	GLOVER FB434R	GLOVER FB436R	GLOVER FB433R	GLOVER FB435R	GLOVER FB437R
Length of jaw serration:	25 mm	40 mm	60 mm	25 mm	40 mm	60 mm
Länge der Zahnung:	1"	1 1/2"	2 3/8"	1"	1 1/2"	2 3/8"
Total length:	68 mm	97 mm	116 mm	65 mm	90 mm	107 mm
Gesamtlänge:	2 5/8"	3 3/4"	4 3/4"	2 1/2"	3 1/2"	4 1/8"

INCHES



1/1

	Fig. A GREGORY FB380R	Fig. B GREGORY FB381R	Fig. C GREGORY FB382R	Fig. D GREGORY FB383R
Length of jaw serration:	35 mm	55 mm	50 mm	65 mm
Länge der Zahnung:	1 3/8"	2 1/8"	2"	2 1/2"
Total length:	90 mm	110 mm	105 mm	120 mm
Gesamtlänge:	3 1/2"	4 1/4"	4 1/8"	4 3/4"

MILLIMETERS



GREGORY MODIF.

FB384R–FB385R

Length of jaw serration:	70 mm
Länge der Zahnung:	2 3/4"
Total length:	120 mm
Gesamtlänge:	4 3/4"

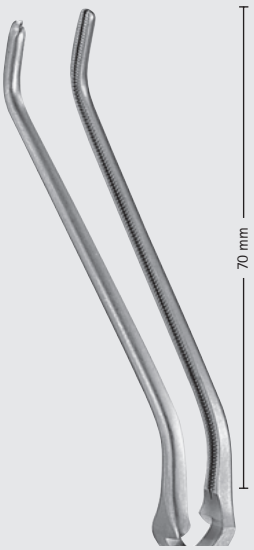


Fig. A

FB384R

left curved

links gebogen

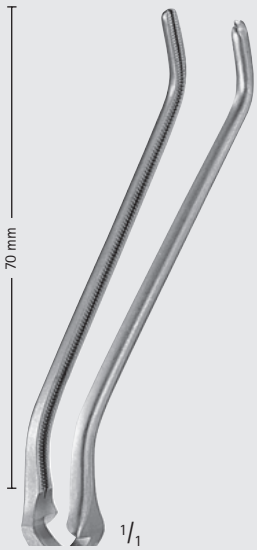


Fig. B

FB385R

right curved

rechts gebogen

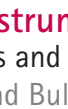


1/1

	GLOVER FB370R	GLOVER FB374R	GLOVER FB375R	GLOVER FB376R	GLOVER FB377R
Length of jaw serration:	25 mm	20 mm	30 mm	45 mm	55 mm
Länge der Zahnung:	1"	3/4"	1 1/8"	1 3/4"	2 1/8"
Total length:	50 mm	40 mm	60 mm	75 mm	120 mm
Gesamtlänge:	2"	1 1/2"	2 3/8"	3"	4 3/4"

MILLIMETERS

Toothing COOLEY



COOLEY Zahnung



1/1

	COOLEY MB737R	COOLEY MB738R	COOLEY MB739R	COOLEY MB740R
Length of jaw serration:	20 mm	30 mm	45 mm	60 mm
Länge der Zahnung:	3/4"	1 1/8"	1 3/4"	2 3/8"
Total length:	50 mm	65 mm	85 mm	125 mm
Gesamtlänge:	2"	2 1/2"	3 3/8"	5"

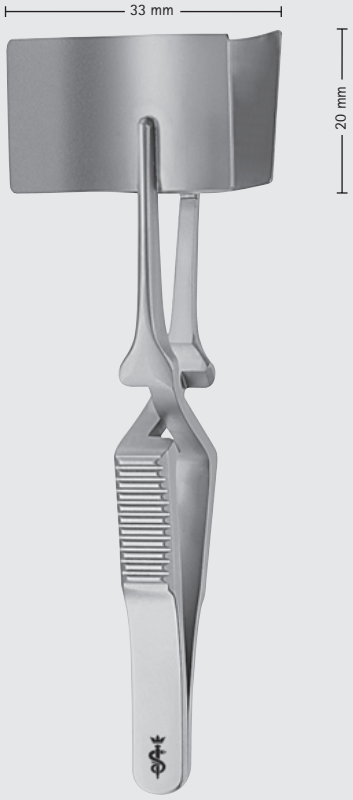
INCHES

Glue application bulldog clamps

- Used for application of gelatine glue during aortic dissection and fixation of the layers

Fixier-Bulldogklemmen

- für die Verwendung mit Gelatine-Kleber während der Aortendissektion zur Fixierung der verschiedenen Schichten der Gefäßwand

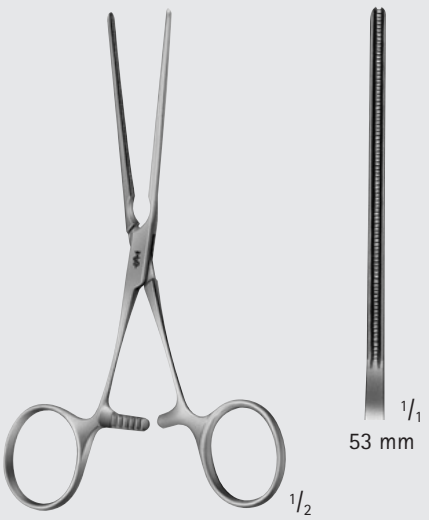


FB941R	FB942R
smooth cup	smooth cup
glatt	glatt
95 mm	130 mm
3 3/4"	5"

FB941R–FB942R

Glue application bulldog clamps

Fixier-Bulldogklemmen



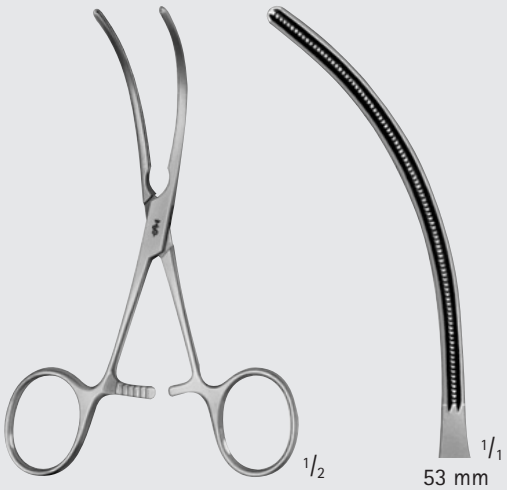
DE BAKEY

FB540R

straight

gerade

130 mm, 5 1/8"



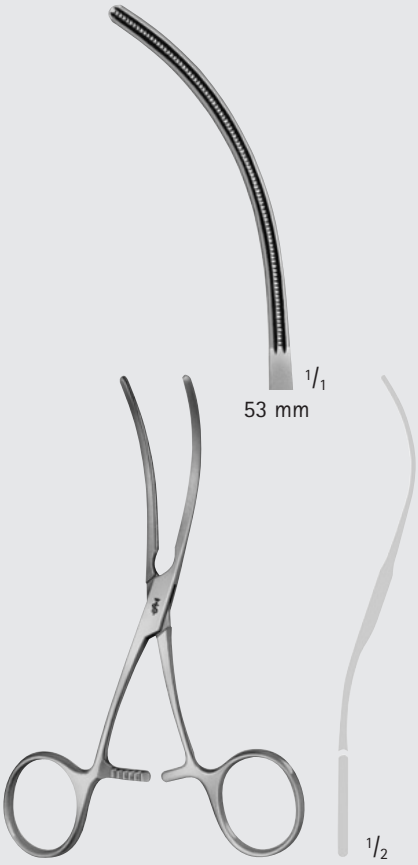
DE BAKEY

FB541R

curved jaws

Maul gebogen

125 mm, 5"



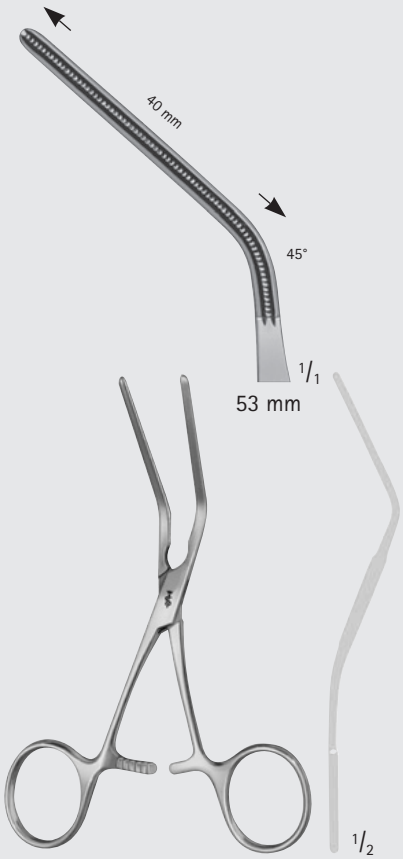
DE BAKEY

FB542R

S-shaped

S-förmig

125 mm, 5"



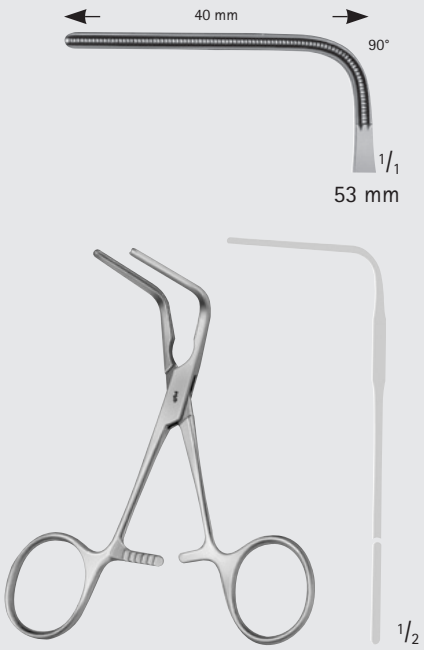
DE BAKEY

FB543R

angled 45°

45° winklig gebogen

125 mm, 5"



DE BAKEY

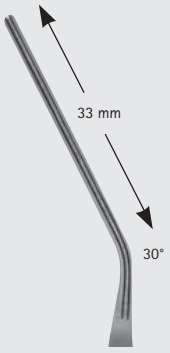
FB544R

angled 90°

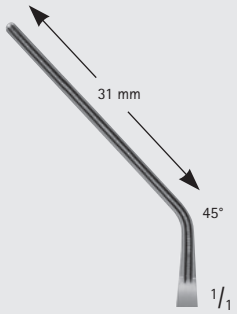
90° winklig gebogen

105 mm, 4 1/8"





FB581R



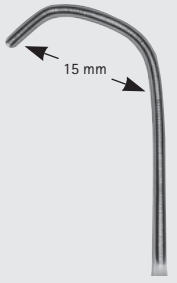
FB582R

CASTANEDA

FB581R–FB582R

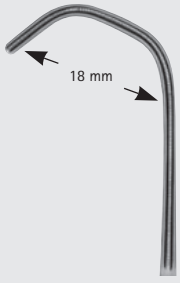
120 mm, 4 3/4"





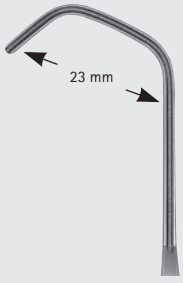
48 mm

FB590R



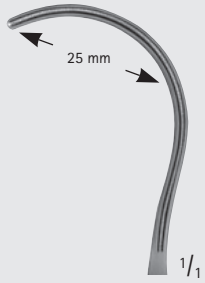
52 mm

FB591R



56 mm

FB592R



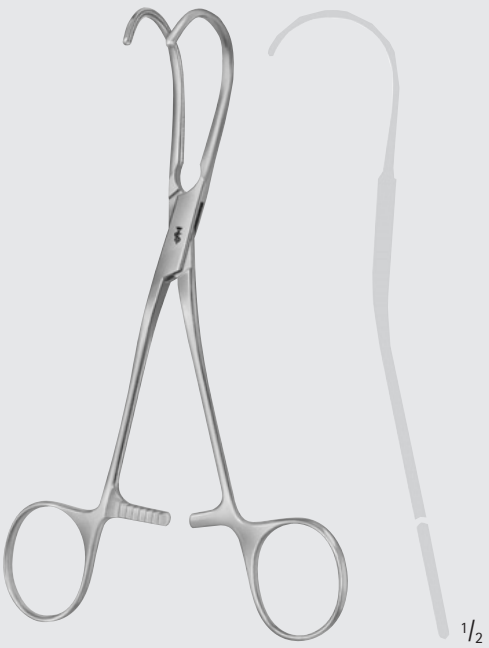
50 mm

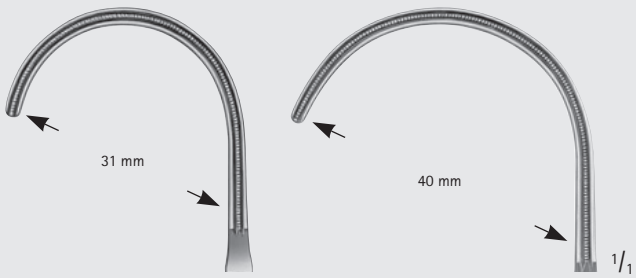
FB593R

CASTANEDA

FB590R–FB593R

155 mm, 6"

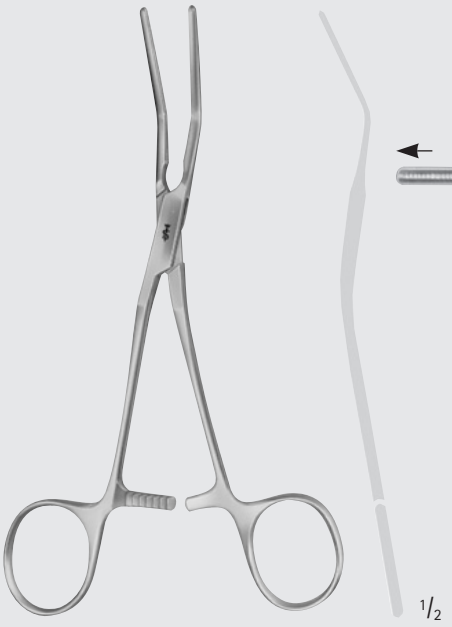


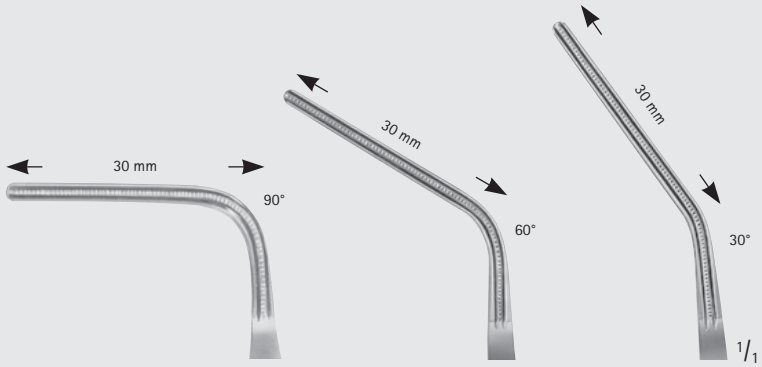


FB557R	FB558R
160 mm	170 mm
6 1/2"	6 3/4"

DE BAKEY

FB557R–FB558R

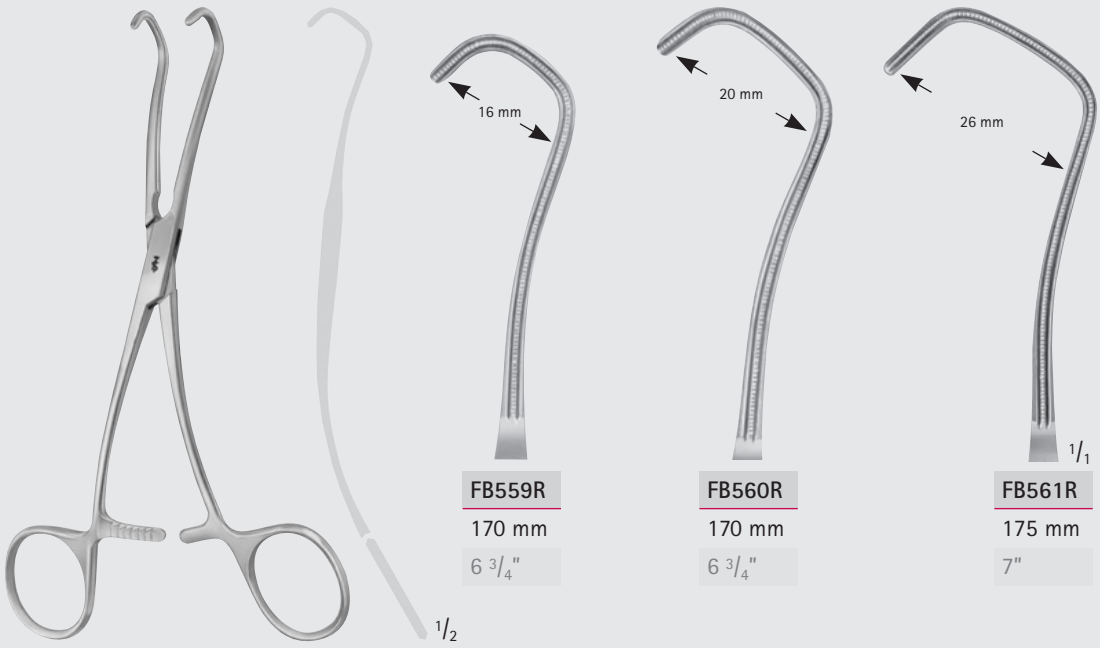




FB569R	FB568R	FB567R
150 mm	160 mm	165 mm
6"	6 1/4"	6 1/2"

COOLEY

FB567R–FB569R

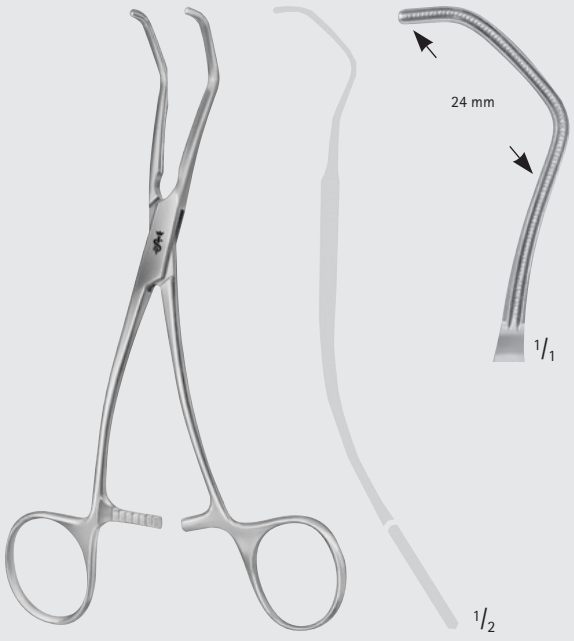


FB559R
170 mm
6 3/4"

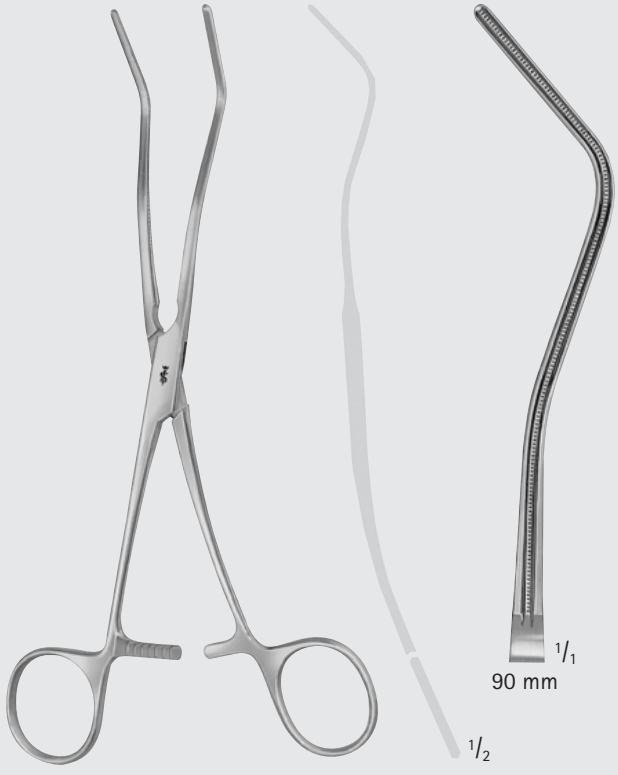
FB560R
170 mm
6 3/4"

FB561R
175 mm
7"

DERRA
FB559R–FB561R



COOLEY
FB563R
160 mm, 6 1/4"



COOLEY
FB570R
200 mm, 8"



20 mm
FB440R

20 mm
FB441R

1/1

1/2

FB440R-FB441R
Mosquito Forceps
Mosquitoklemmen
125 mm, 5"



27 mm
FB442R

27 mm
FB443R

1/1

1/2

FB442R-FB443R
Mosquito forceps
Mosquitoklemmen
165 mm, 6 1/2"



40 mm
FB446R

40 mm
FB447R

1/1

1/2

DE BAKEY-BAINBRIDGE
FB446R-FB447R
155 mm, 6"



65 mm
FB448R

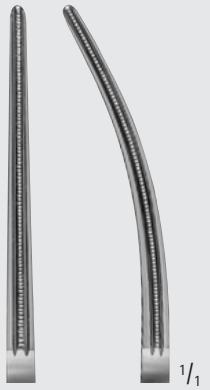
65 mm
FB449R

1/1

1/2

DE BAKEY-BAINBRIDGE
FB448R-FB449R
180 mm, 7"





50 mm	50 mm
FB444R	FB445R

PEAN

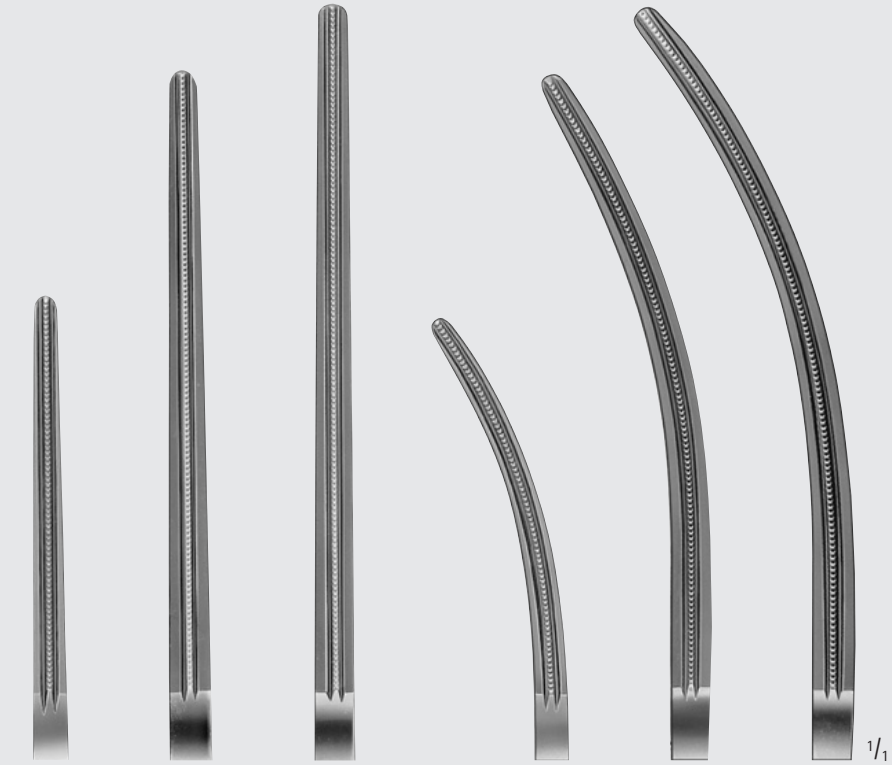
FB444R–FB445R

155 mm, 6"

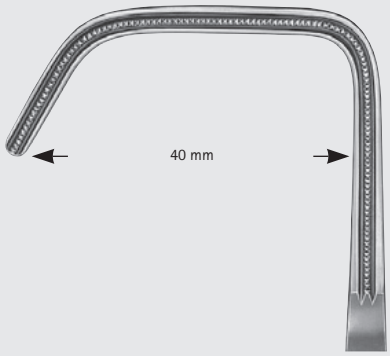


DE BAKEY-PEAN

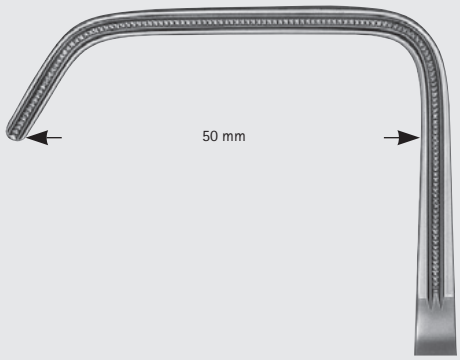
FB526R–FB535R



60 mm	89 mm	99 mm	60 mm	89 mm	99 mm
FB526R	FB532R	FB534R	FB527R	FB533R	FB535R
200 mm	265 mm	280 mm	200 mm	260 mm	275 mm
8"	10 1/2"	11"	8"	10 1/4"	10 3/4"



FB528R
230 mm
9"



FB529R
235 mm
9 1/4"



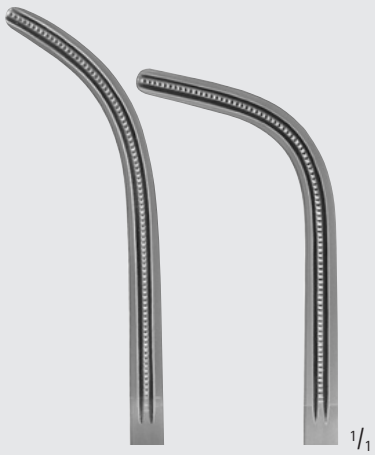
1/1

FB530R
245 mm
9 3/4"



HOPT

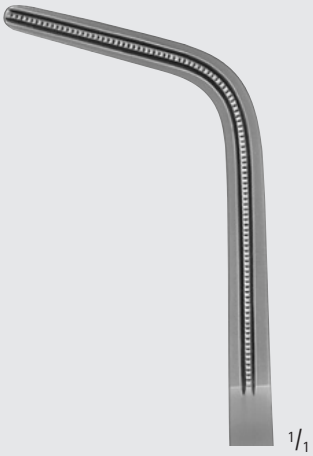
FB528R–FB530R



81 mm
FB486R
250 mm
10"

81 mm
FB487R
245 mm
9 3/4"

1/1



80 mm

1/1



70 mm



DE BAKEY-RUMEL
FB486R-FB487R



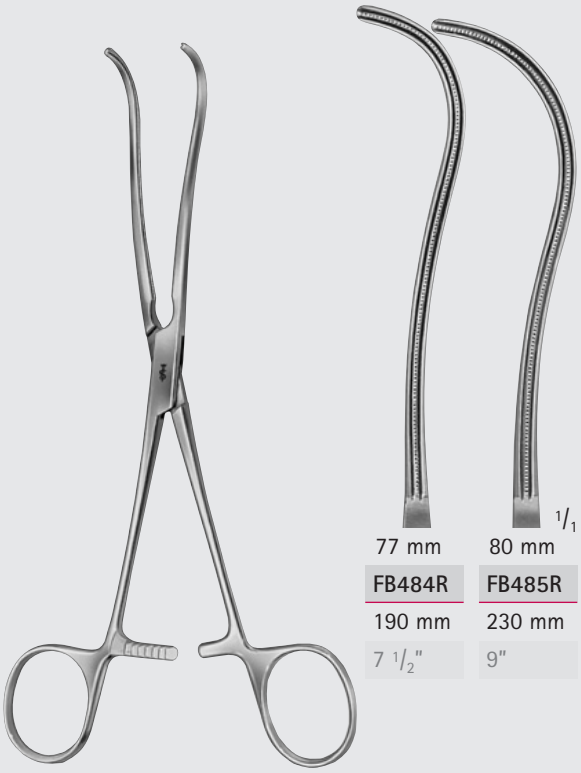
1/2

DE BAKEY-MIXTER
FB497R
285 mm, 11 1/4"



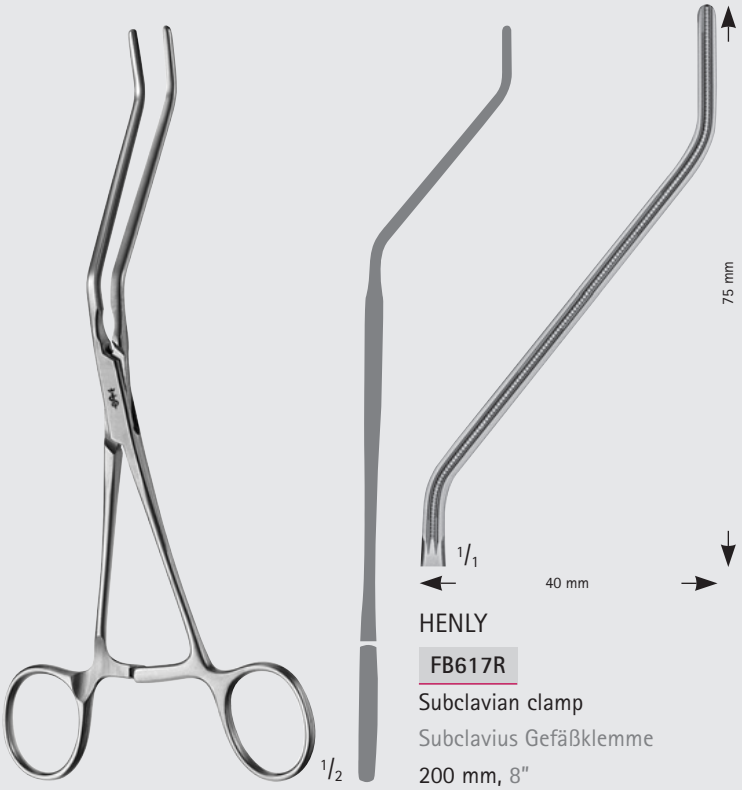
1/2

DE BAKEY - MC QUIGG-MIXTER
FB496R
210 mm, 8 1/4"



DE BAKEY

FB484R–FB485R



HENLY

FB617R

Subclavian clamp

Subclavius Gefäßklemme

200 mm, 8"



DE BAKEY

FB483R

240 mm, 9 1/2"



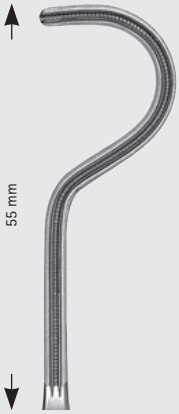
DE BAKEY

FB498R–FB499R

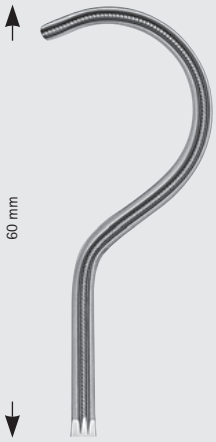


DALE

FB546R–FB549R



FB546R
Spoon size: S (small)
Löffelgröße: S (small)
175 mm
7"



FB547R
Spoon size: M (medium)
Löffelgröße: M (medium)
180 mm
7"



FB548R
Spoon size: L (large)
Löffelgröße: L (large)
180 mm
7"



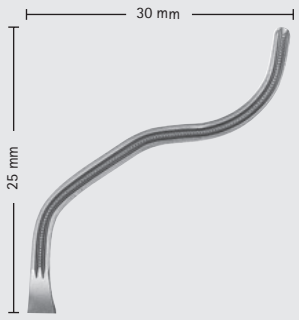
FB549R
180 mm
7"



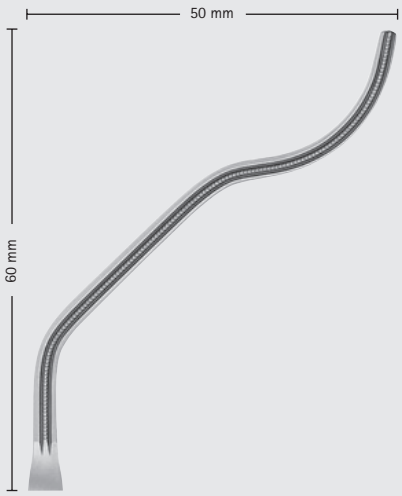
GREGORY

MB750R–MB752R

Profunda clamps
Profundaklemmen



MB750R
small
klein
145 mm
5 3/4"



MB751R
medium
mittel
180 mm
7"

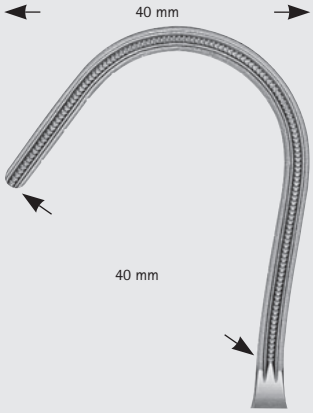


MB752R
large
groß
195 mm
7 3/4"



WYLIE

FB669R-FB670R



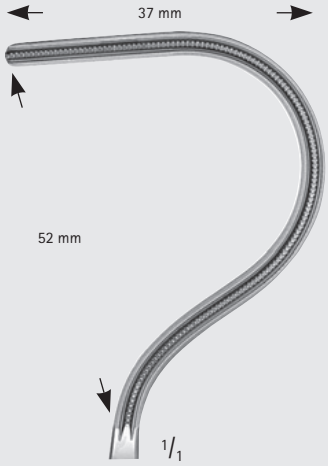
FB669R

strong curved

stark gebogen

220 mm

8 3/4"



FB670R

curved back

nach hinten gebogen

230 mm

9"

Vascular Instruments – Gefäßinstrumente

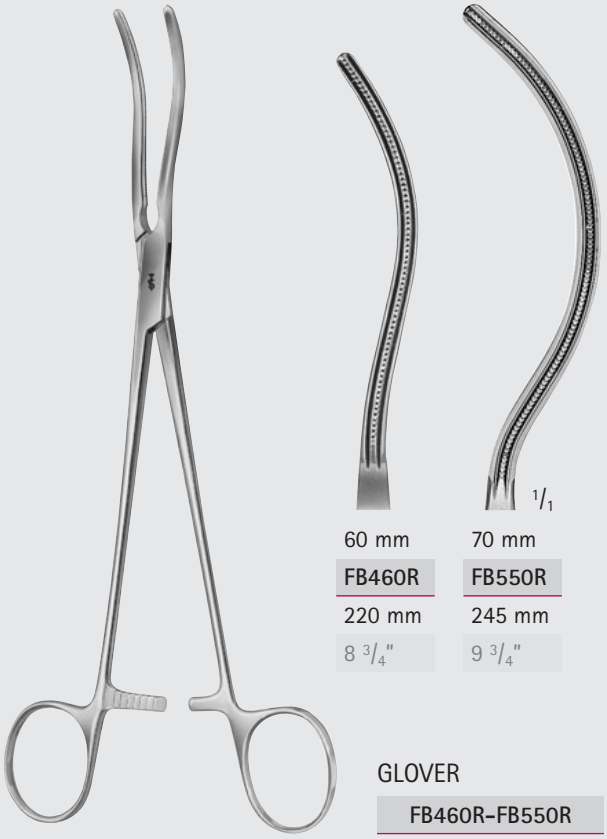
Atraumatic Vascular Clamps
Atraumatische Gefäßklemmen



95 mm
FB462R
210 mm
8 1/4"

70 mm
FB461R
195 mm
7 3/4"

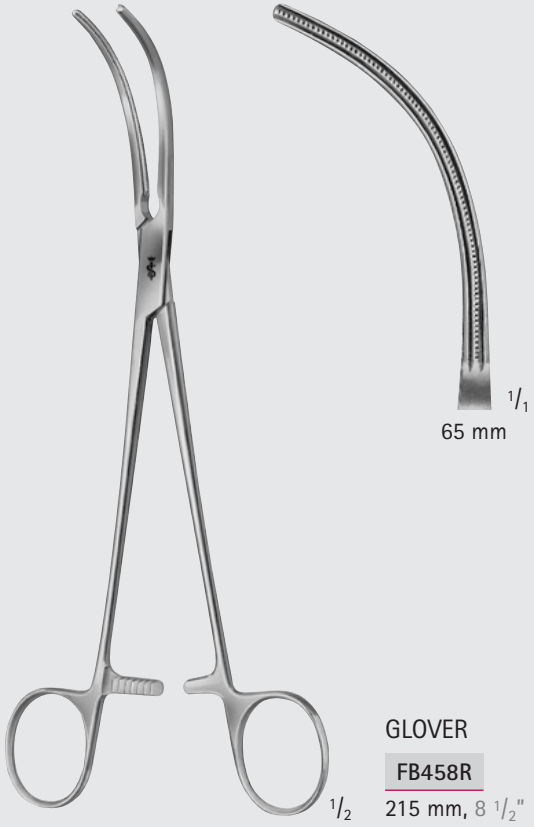
GLOVER
FB461R-FB462R



60 mm
FB460R
220 mm
8 3/4"

70 mm
FB550R
245 mm
9 3/4"

GLOVER
FB460R-FB550R

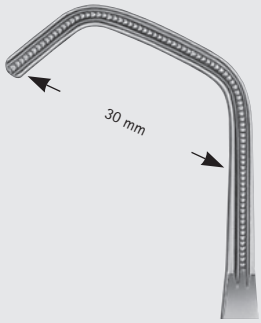


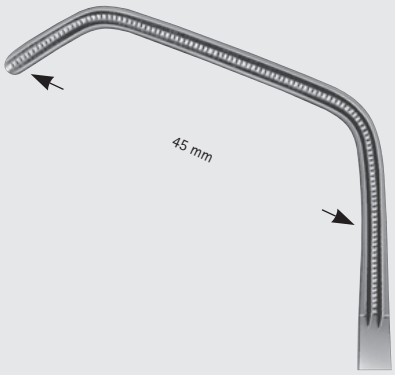
GLOVER
FB458R
215 mm, 8 1/2"



GLOVER
FB459R
245 mm, 9 3/4"







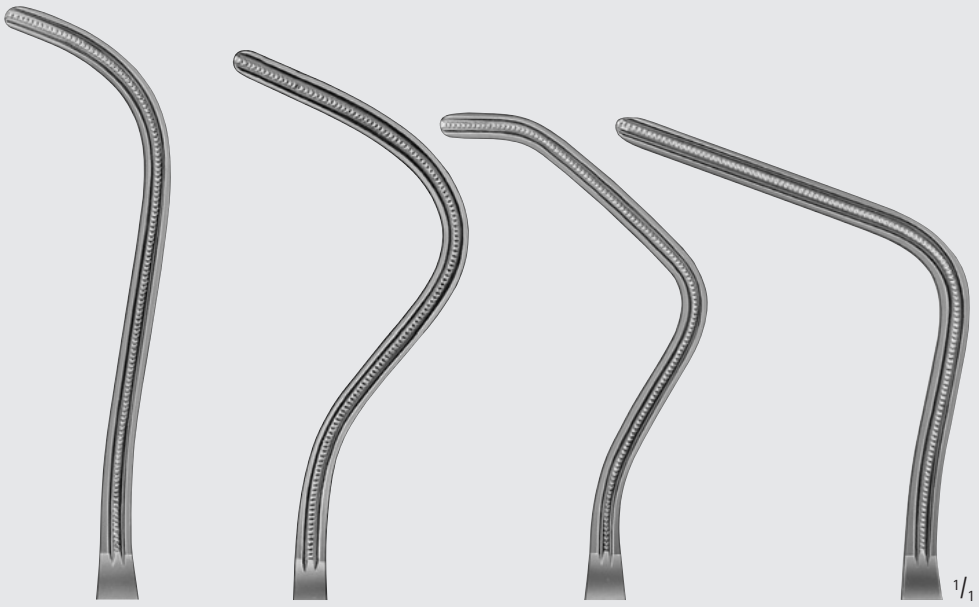
1/1

65 mm
FB519R
205 mm
8"

80 mm
FB520R
210 mm
8 1/4"

DE BAKEY-BECK
FB519R-FB520R





1/1

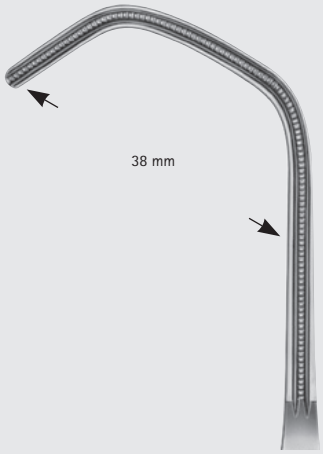
86 mm
FB521R
255 mm
10"

86 mm
FB522R
245 mm
9 3/4"

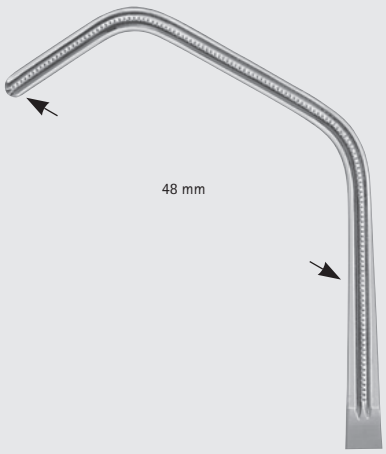
86 mm
FB523R
245 mm
9 3/4"

86 mm
FB524R
245 mm
9 3/4"

DE BAKEY-HARKEN
FB521R-FB524R



85 mm
FB500R
220 mm
7 3/4"

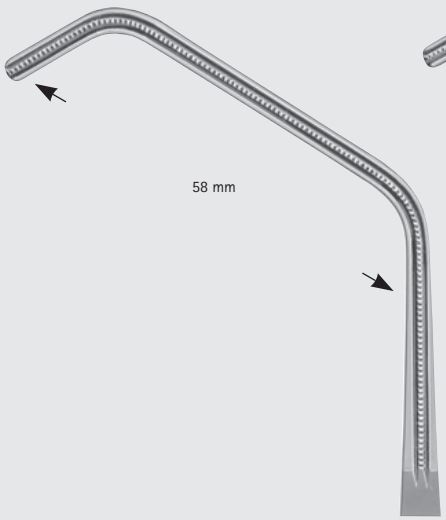


95 mm
FB501R
265 mm
10 1/4"

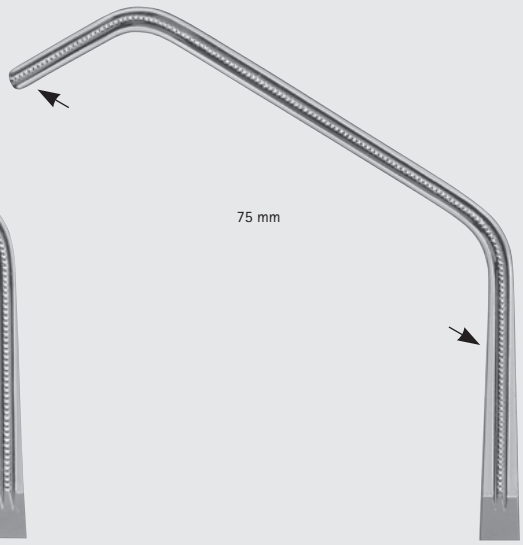


99 mm
FB502R
270 mm
10 3/4"



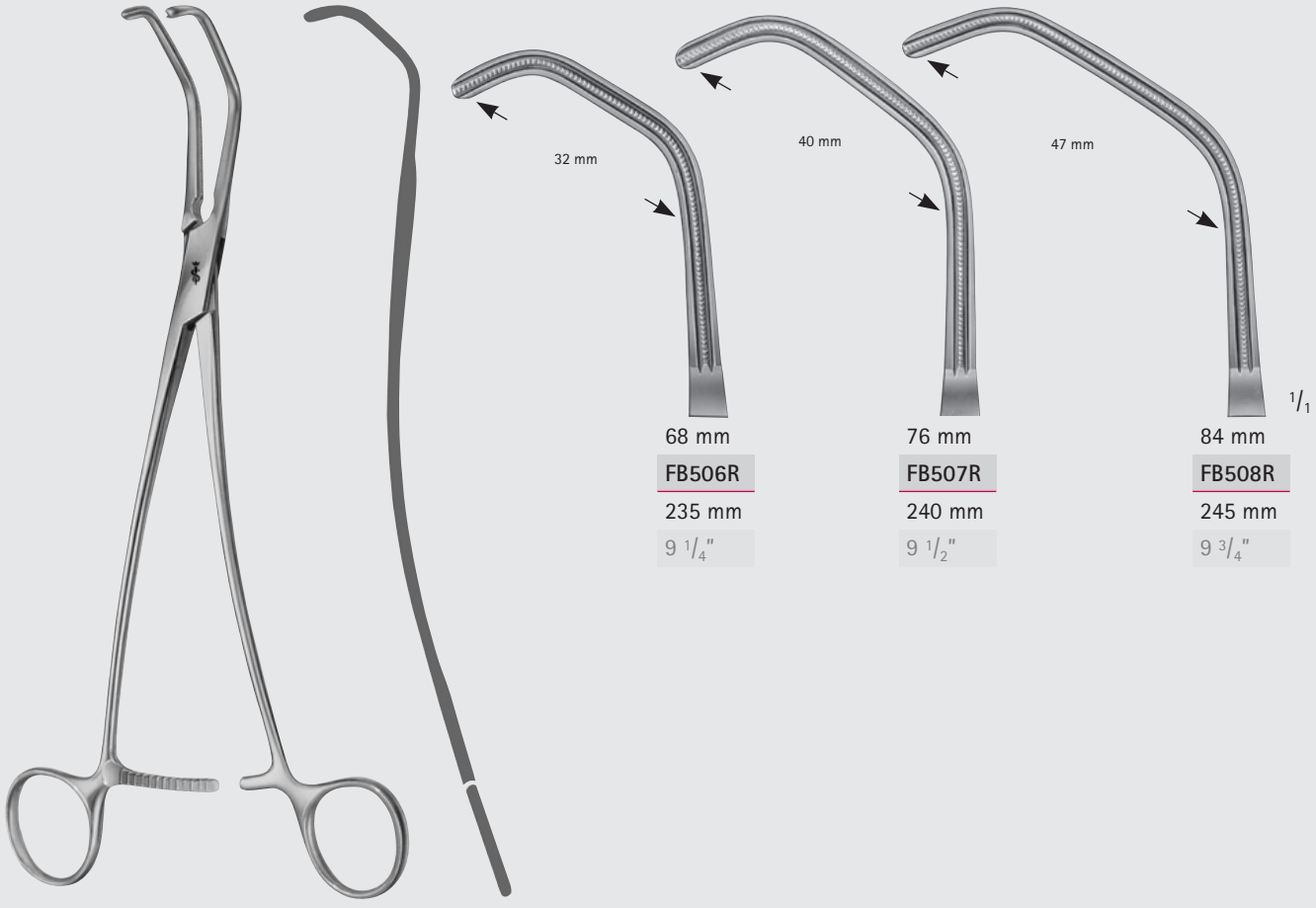


103 mm
FB503R
270 mm
10 3/4"



119 mm
FB504R
280 mm
11"

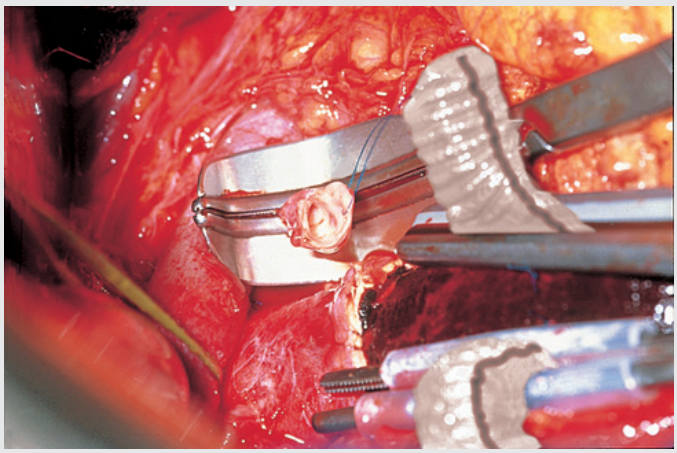
DE BAKEY
FB500R–FB504R



68 mm	76 mm	84 mm
FB506R	FB507R	FB508R
235 mm	240 mm	245 mm
9 1/4"	9 1/2"	9 3/4"

DE BAKEY-SATINSKY

FB506R–FB508R







FB587R
235 mm
9 1/4"

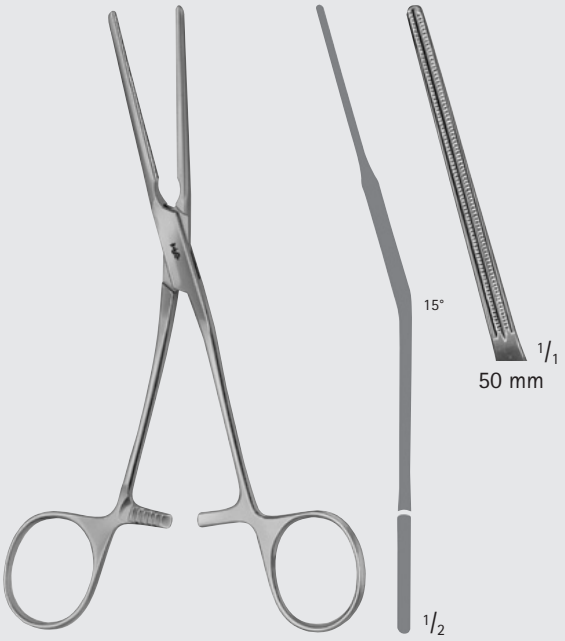
FB588R
245 mm
9 3/4"

ALLENBERG

FB587R–FB588R

with lateral blades for retraction of soft tissue during the anastomosis

mit seitlichen Blättern zum Weghalten von Weichteilen während der Anastomose



DE BAKEY

FB553R

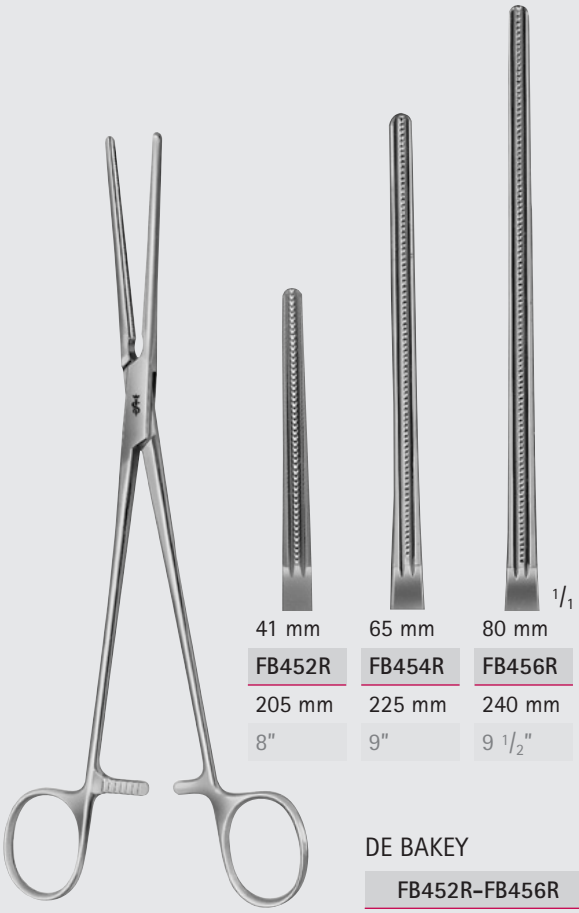
165 mm, 6 1/2"



FB552R	FB554R
170 mm	165 mm
6 3/4"	6 1/2"

DE BAKEY

FB552R–FB554R



41 mm	65 mm	80 mm
FB452R	FB454R	FB456R
205 mm	225 mm	240 mm
8"	9"	9 1/2"

DE BAKEY

FB452R–FB456R



41 mm	65 mm	80 mm
FB453R	FB455R	FB457R
200 mm	225 mm	240 mm
8"	9"	9 1/2"

DE BAKEY

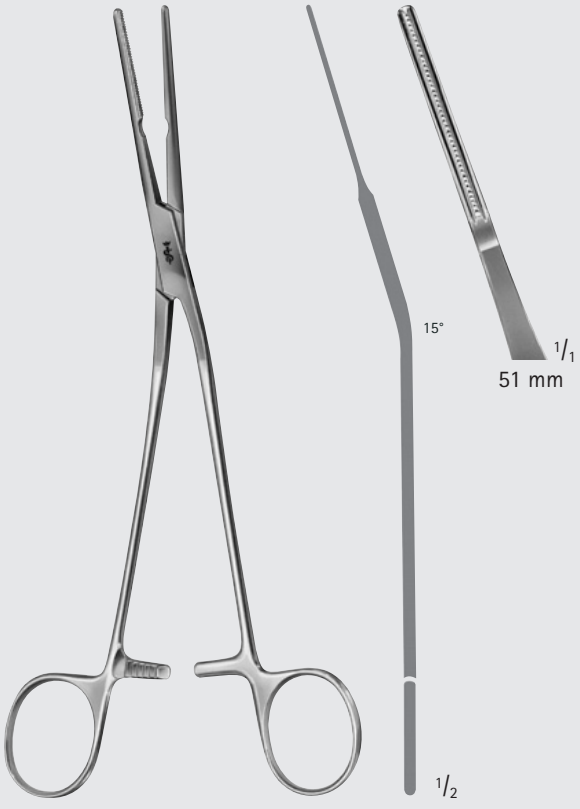
FB453R–FB457R



DE BAKEY

FB450R

210 mm, 8 1/4"



DE BAKEY

FB451R

210 mm, 8 1/4"



DE BAKEY

FB463R

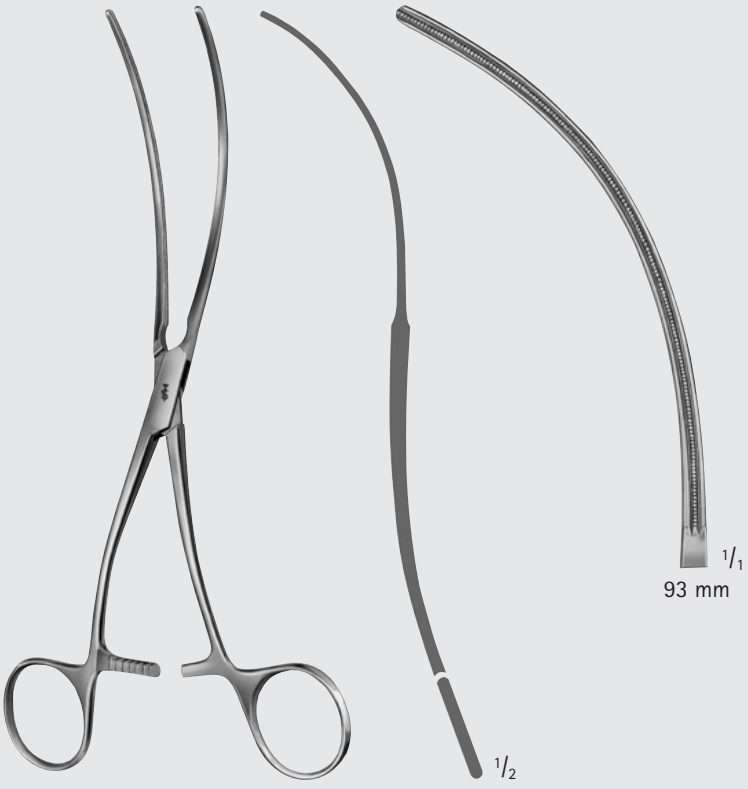
160 mm, 6 1/4"



DE BAKEY

FB464R

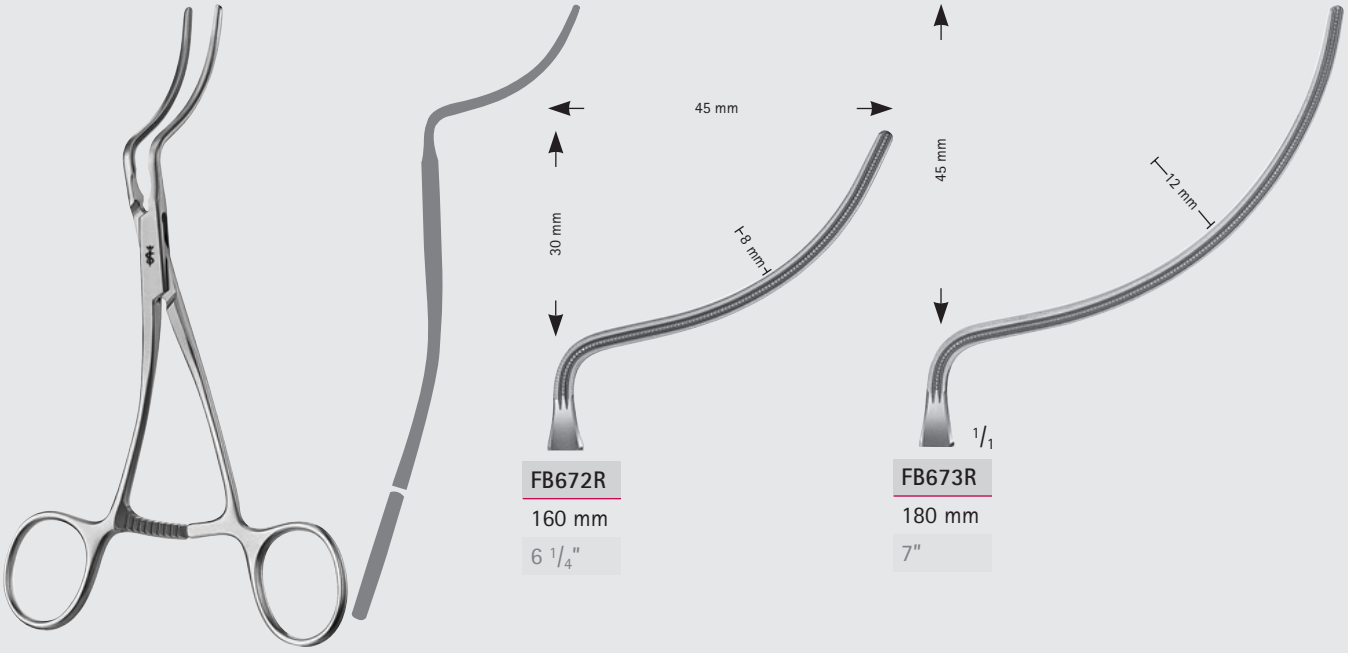
190 mm, 7 1/4"



DE BAKEY

FB465R

200 mm, 8"



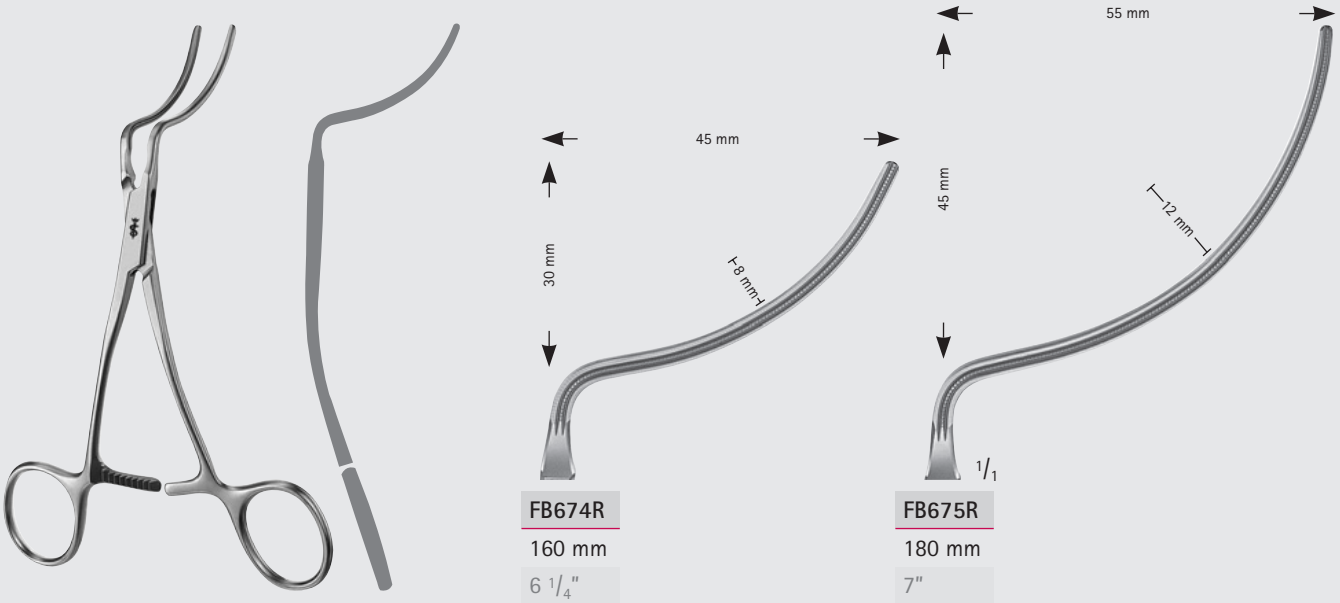
FB672R
160 mm
6 1/4"

FB673R
180 mm
7"

WYLIE

FB672R–FB673R

Shanks curved up
Stangen nach oben gebogen



FB674R
160 mm
6 1/4"

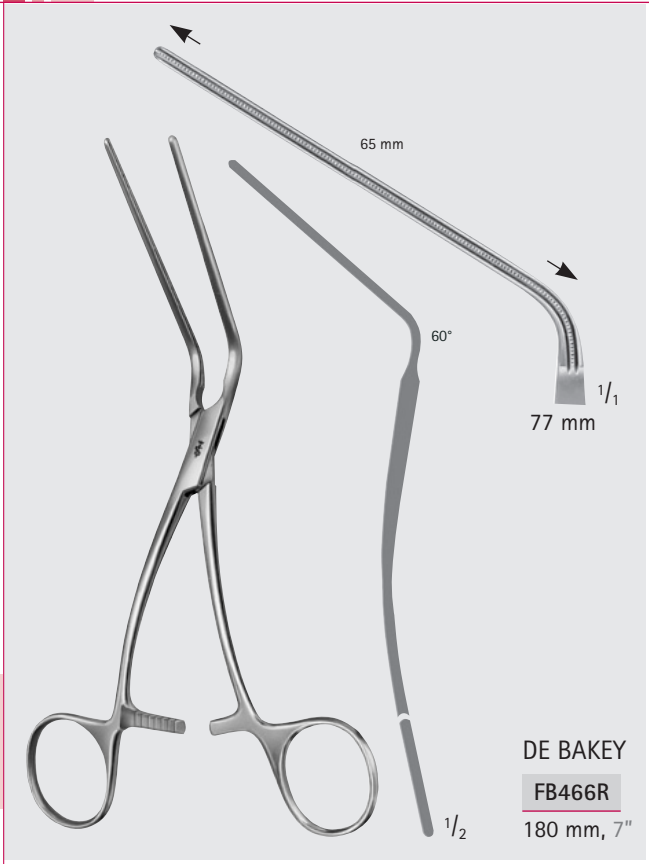
FB675R
180 mm
7"

WYLIE

FB674R–FB675R

Shanks curved down
Stangen nach unten gebogen

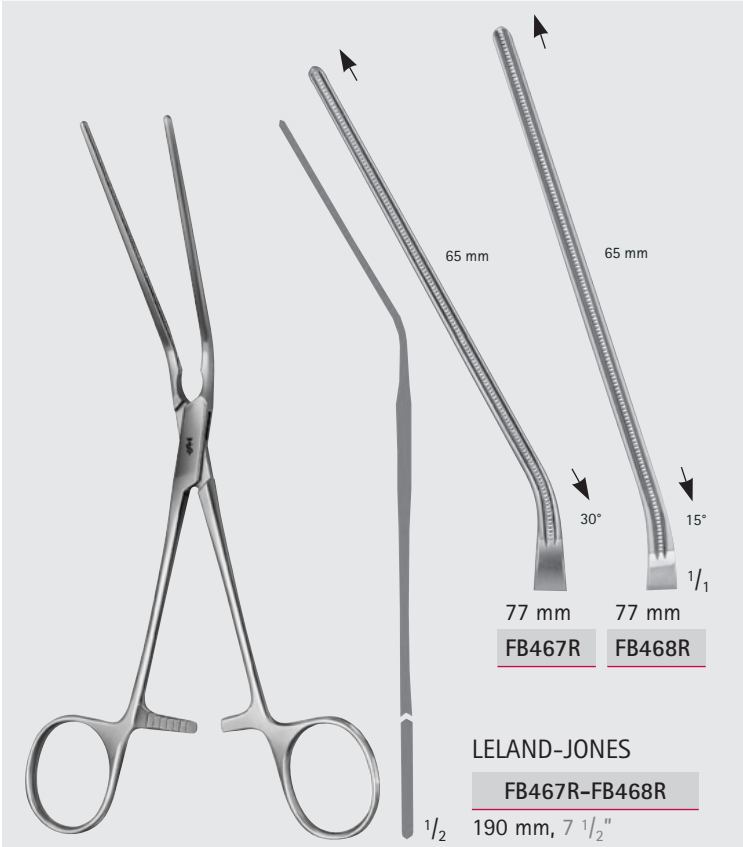
MILLIMETERS



DE BAKEY

FB466R

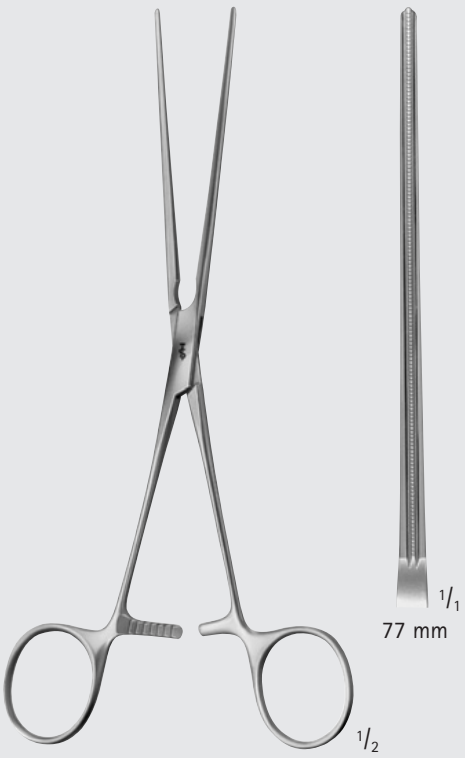
180 mm, 7"



LELAND-JONES

FB467R-FB468R

190 mm, 7 1/2"



LELAND-JONES

FB469R

195 mm, 7 3/4"



DE BAKEY

FB470R

Iliac clamp

Iliaca-Klemme

200 mm, 8"



WERTHEIM

BJ581R

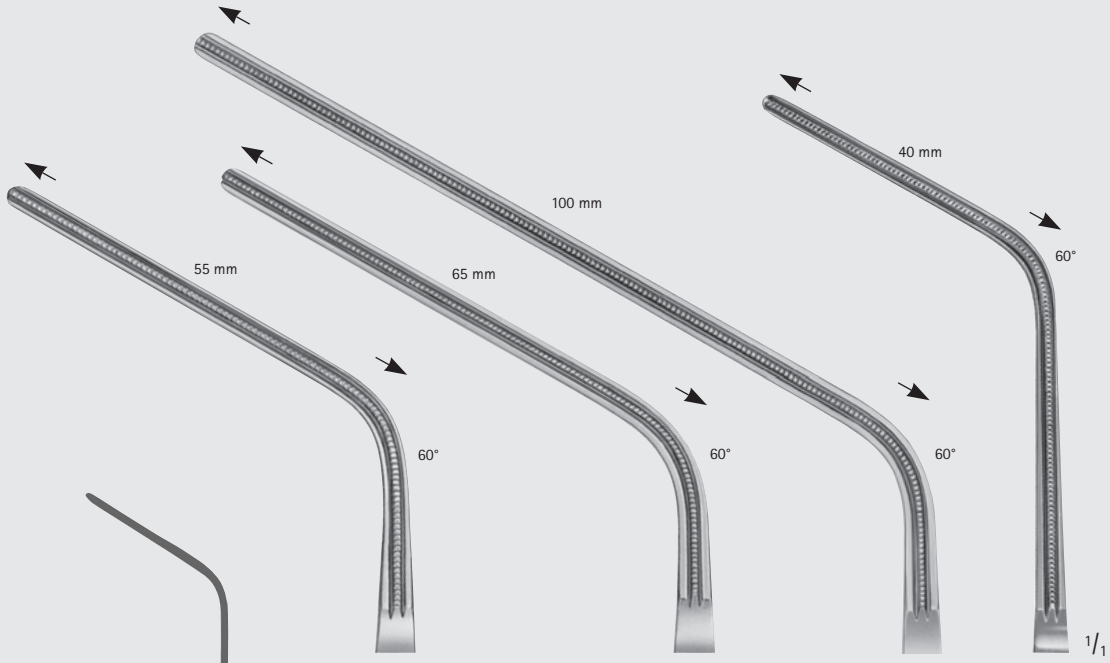
250 mm, 10"



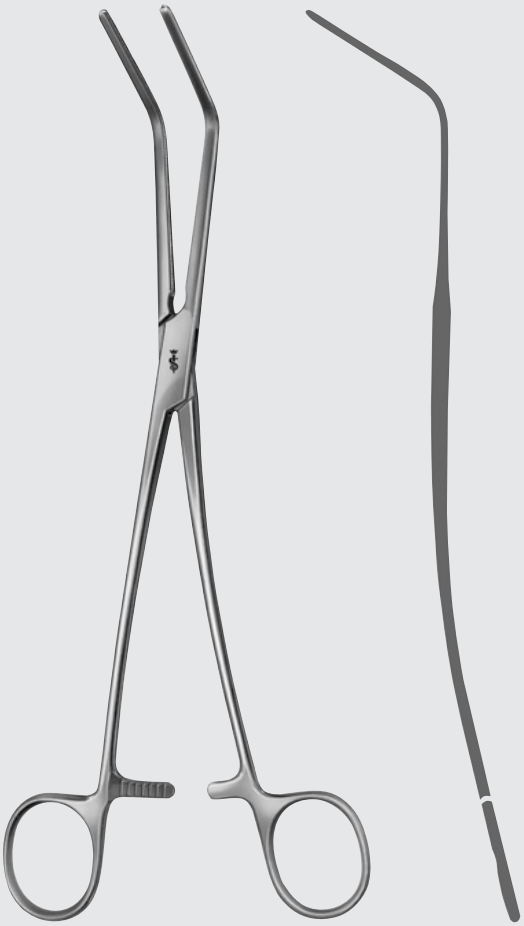
78 mm	88 mm	98 mm
FB956R	FB957R	FB958R
255 mm	265 mm	275 mm
10"	10 1/2"	10 3/4"

DICK

FB956R–FB958R



85 mm	100 mm	135 mm	93 mm
FB511R	FB512R	FB513R	FB510R
230 mm	280 mm	305 mm	240 mm
9"	11"	12"	9 1/2"

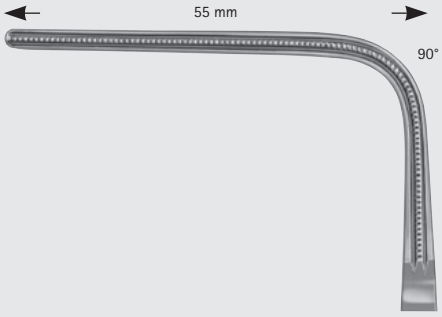


DE BAKEY

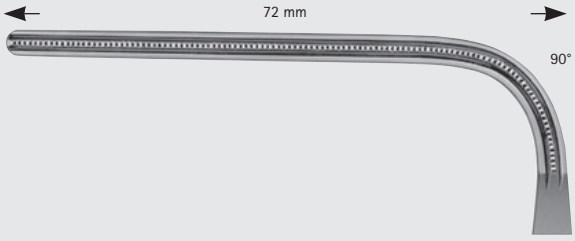
FB510R–FB513R



93 mm
FB515R
225 mm
9"

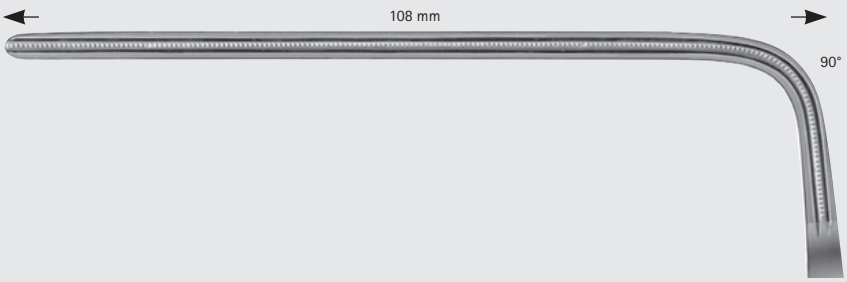


85 mm
FB516R
210 mm
8 1/4"



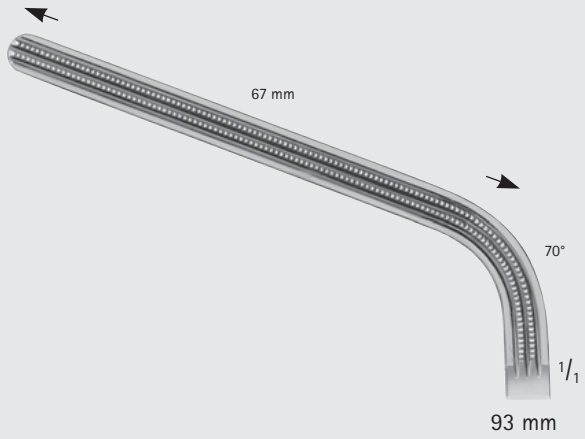
92 mm
FB517R
255 mm
10"





1/1
134 mm
FB518R
275 mm
10 3/4"

DE BAKEY
FB515R–FB518R

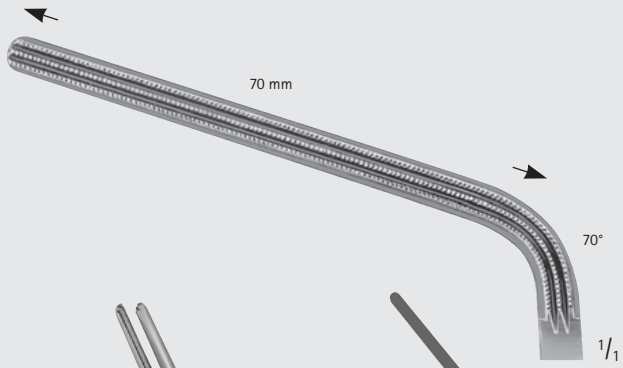




MORRIS

FB493R

175 mm, 7"





DE BAKEY (MORRIS MODIF.)

FB494R

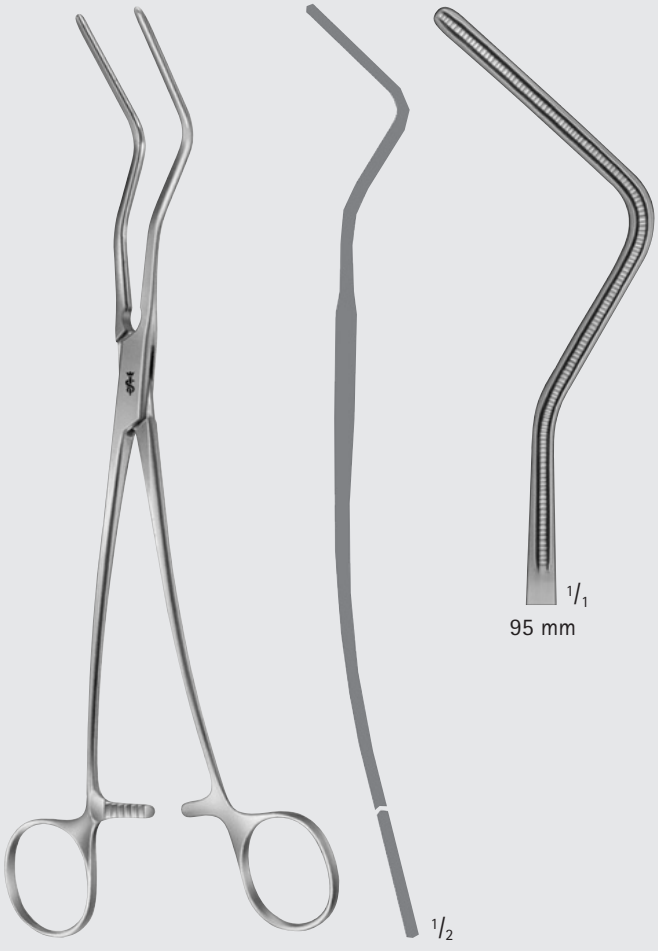
240 mm, 9"



LEES

FB573R

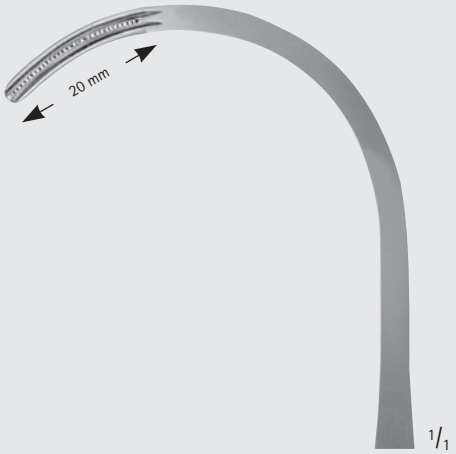
220 mm, 8 3/4"



LEES

FB574R

245 mm, 9 3/4"



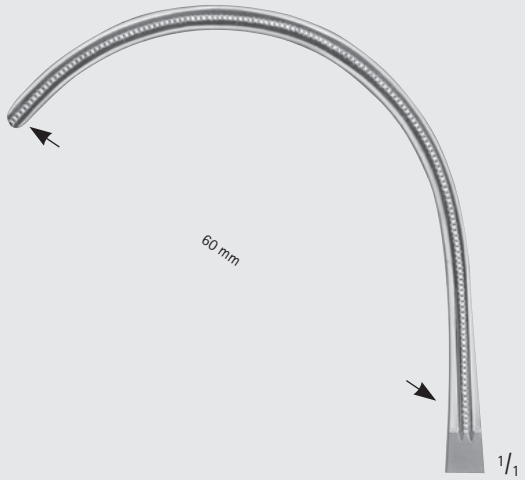
100 mm



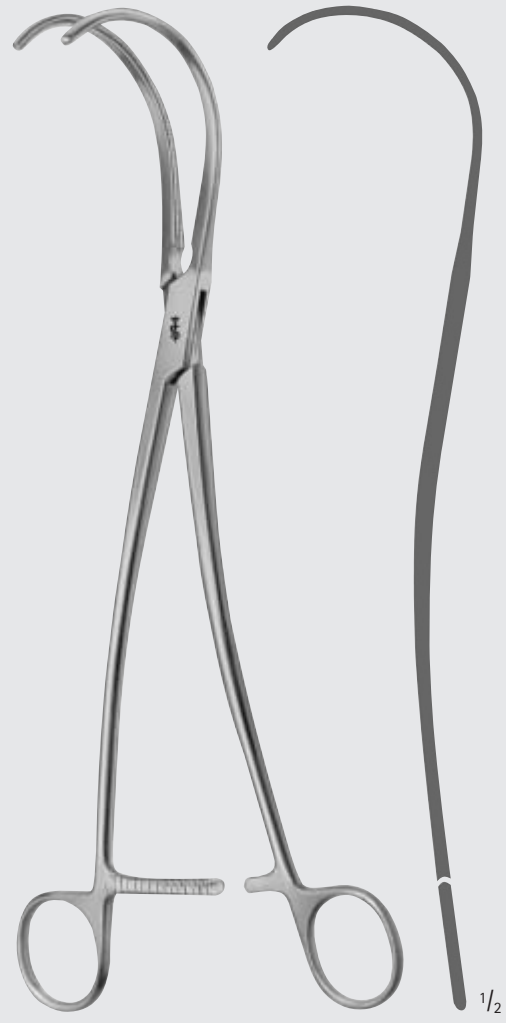
DE BAKEY (SEMB MODIF.)

FB482R

265 mm, 10 1/2"



111 mm



DE BAKEY

FB481R

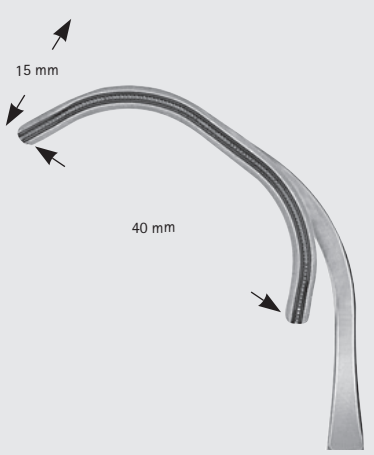
270 mm, 10 3/4"



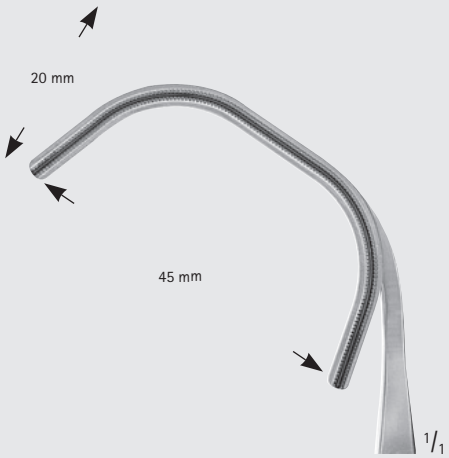
LEMOLE-STRONG

FB618R–FB619R

200 mm, 8"



FB618R



FB619R



1/2



1/1

70 mm	75 mm	85 mm
FB476R	FB477R	FB478R
255 mm	265 mm	280 mm
10"	10 1/2"	11"

DE BAKEY

FB476R–FB478R

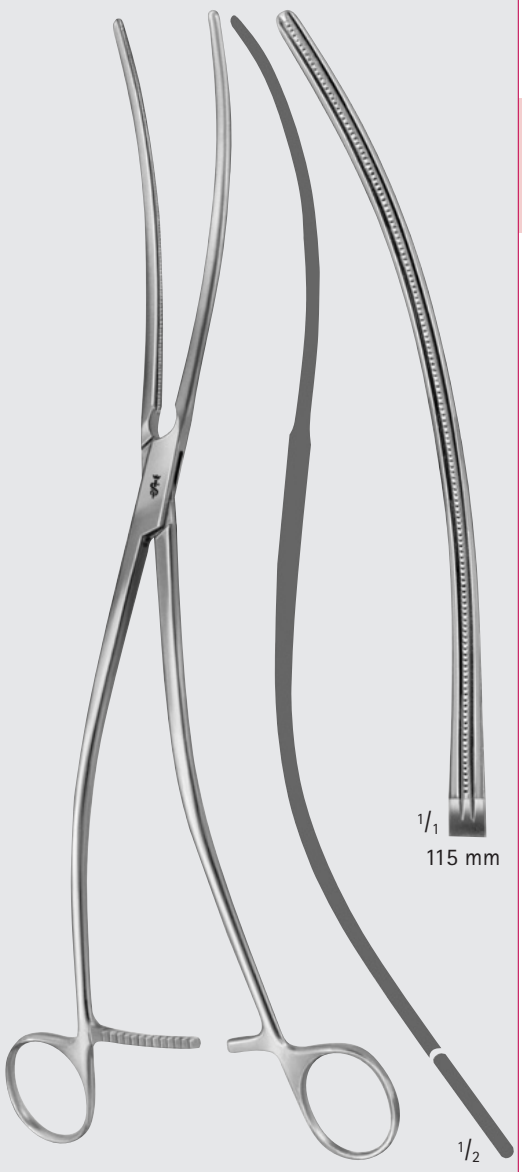


2:3 Teeth rows
2:3 Zahnreihen



95 mm	110 mm	130 mm	140 mm
FB471R	FB472R	FB473R	FB480R
250 mm	300 mm	315 mm	330 mm
10"	12"	12 1/2"	13"

DE BAKEY
FB471R–FB480R



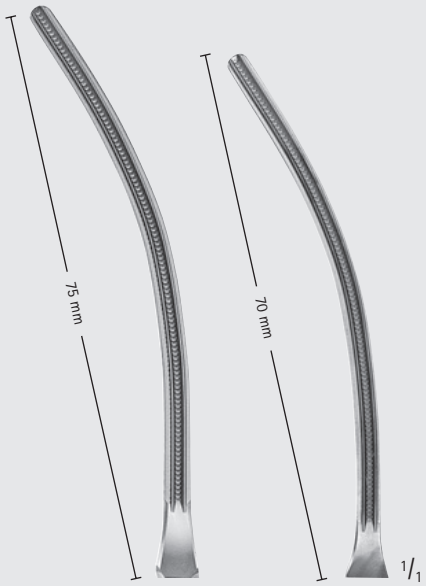
115 mm

DE BAKEY
FB475R
300 mm, 12"



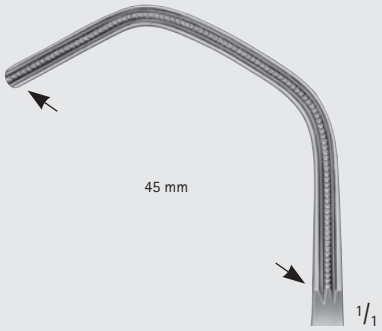
WYLIE

MB240-MB241

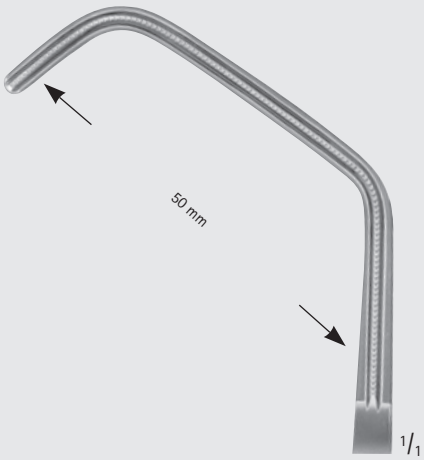


1/1

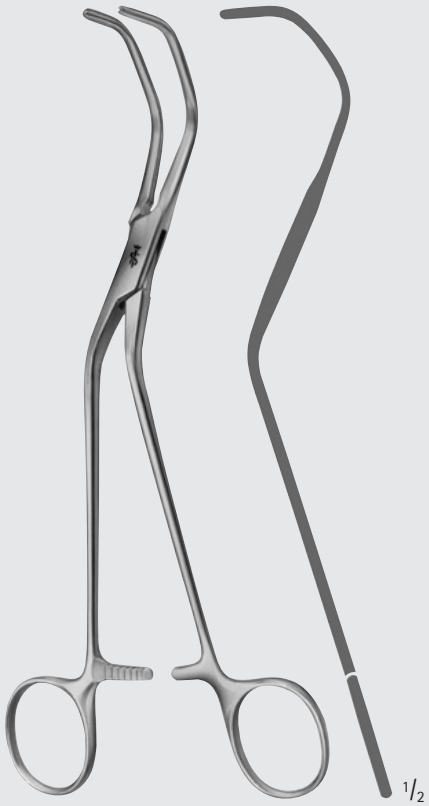
75 mm	70 mm
MB240	MB241
250 mm	215 mm
10"	8 1/2"



1/1
75 mm



1/1
93 mm



1/2

DIETHRICH

FB525R

210 mm, 8 1/4"

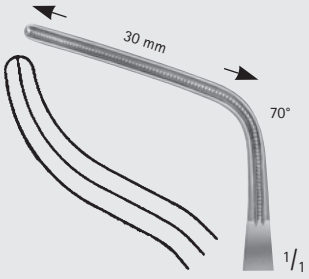


1/2

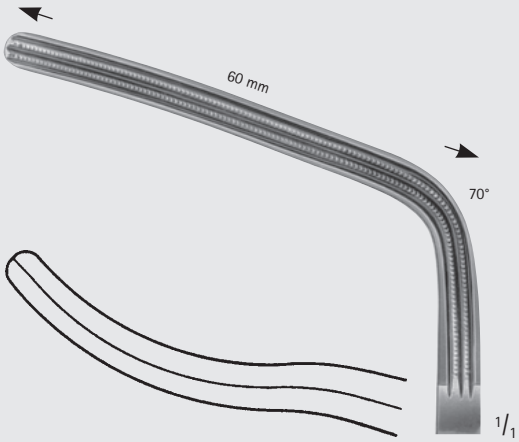
OCHSNER

FB495R

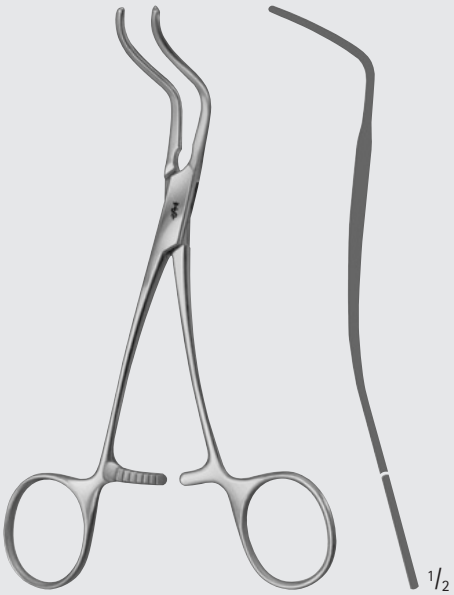
260 mm, 10 1/4"



53 mm



95 mm



SUBRAMANIAN (MODIF.)

FB578R

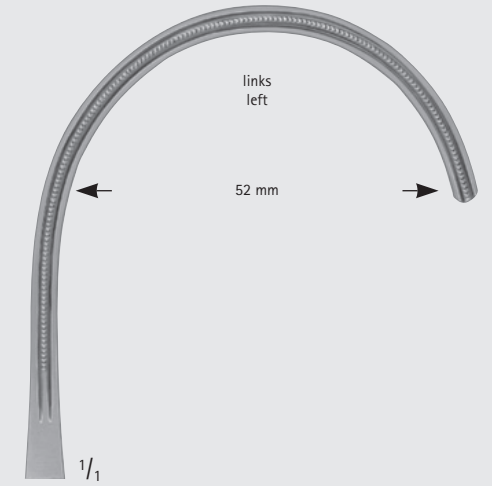
155 mm, 6"



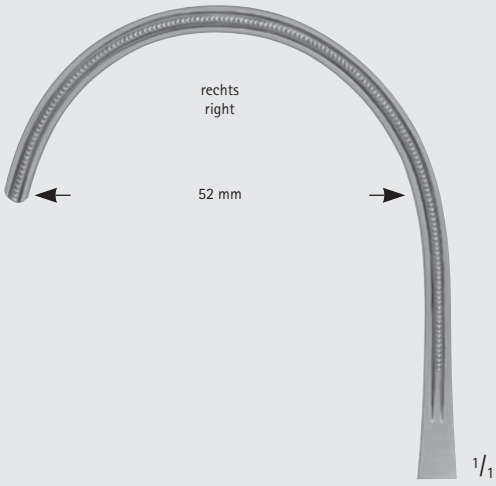
DE BAKEY

FB576R

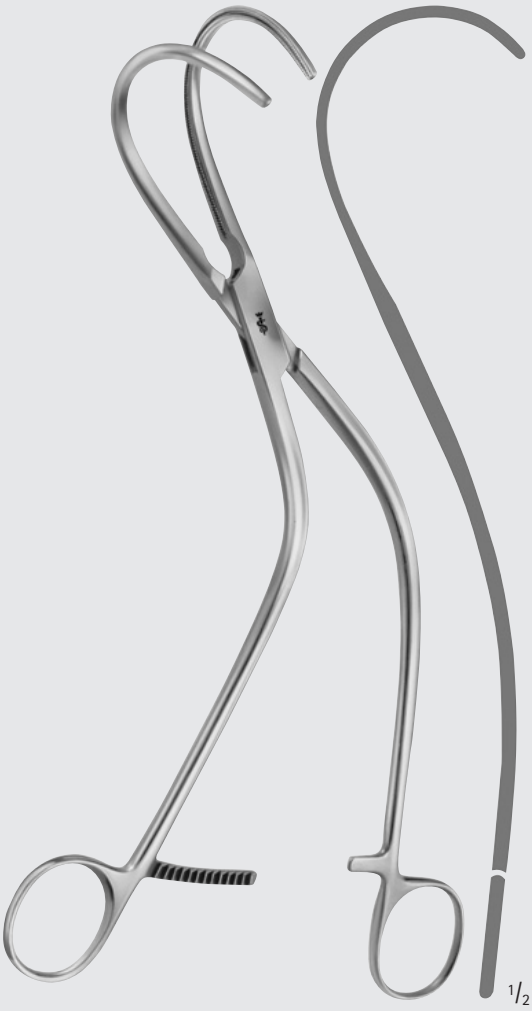
265 mm, 10 1/2"



1/1
113 mm



1/1
113 mm



1/2

WEBER

FB488R

260 mm, 10 1/4"

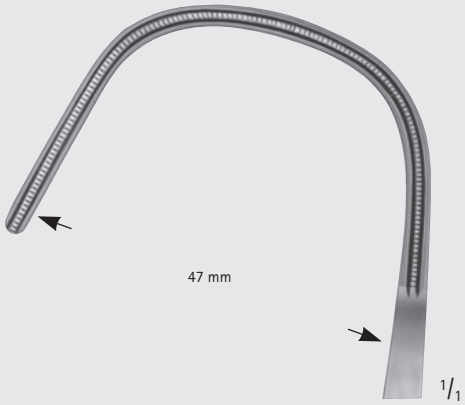


1/2

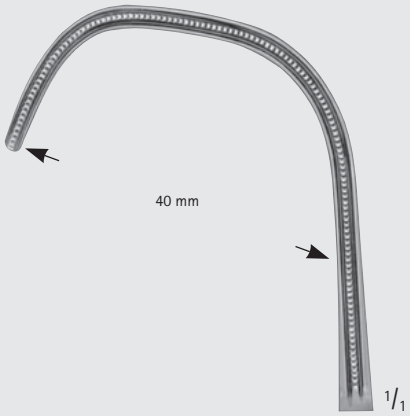
WEBER

FB489R

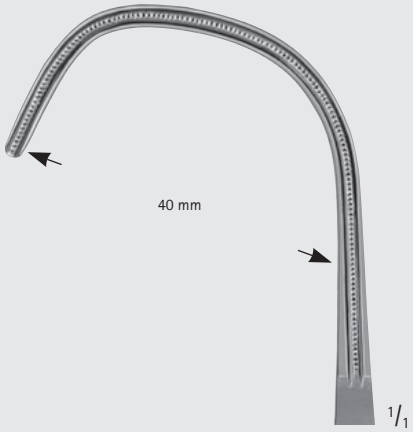
260 mm, 10 1/4"



100 mm



93 mm



97 mm



LAMBERT-KAY

FB492R

210 mm, 8 1/4"



LAMBERT-KAY

FB490R

215 mm, 8 1/2"

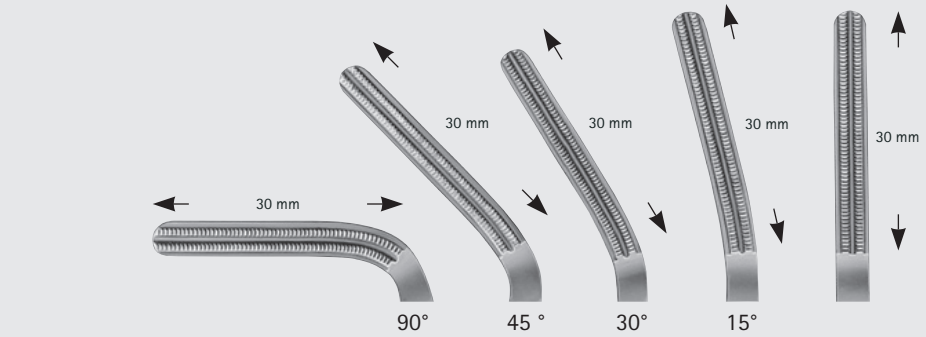


DE BAKEY (MOD. LAMBERT)

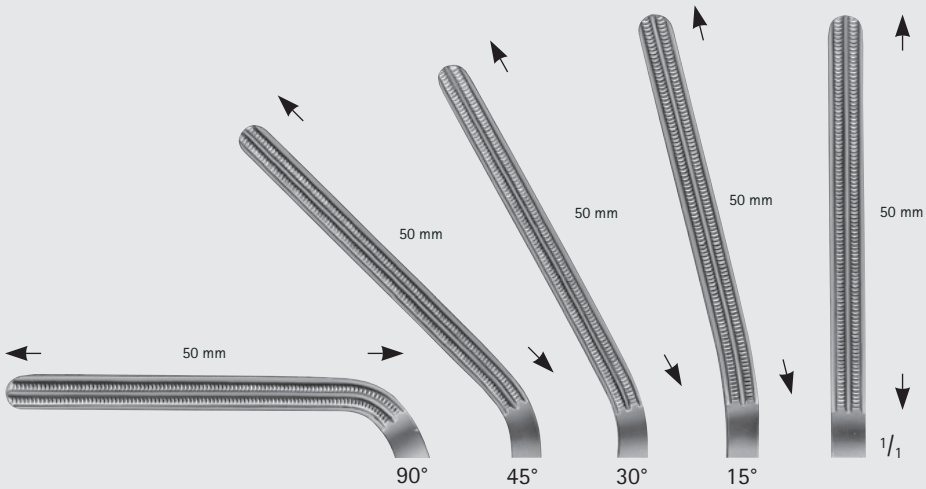
FB491R

255 mm, 10"





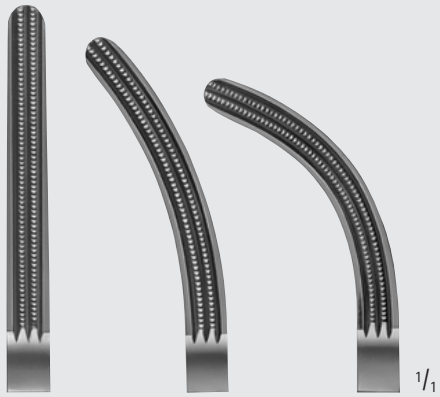
FC304R	FC303R	FC302R	FC301R	FC300R
130 mm	145 mm	150 mm	150 mm	150 mm
5 1/8"	5 3/4"	6"	6"	6"



FC314R	FC313R	FC312R	FC311R	FC310R
135 mm	160 mm	170 mm	170 mm	170 mm
5 1/4"	6 1/4"	6 3/4"	6 3/4"	6 3/4"

FC300R-FC314R





1/1

BJ530R	BJ531R	BJ532R
225 mm	220 mm	215 mm
9"	8 3/4"	8 1/2"

HEANEY

BJ530R–BJ532R



BJ550R	BJ551R	BJ552R	BJ553R
250 mm	245 mm	240 mm	220 mm
10"	9 3/4"	9 1/2"	8 3/4"

1/1

WERTHEIM

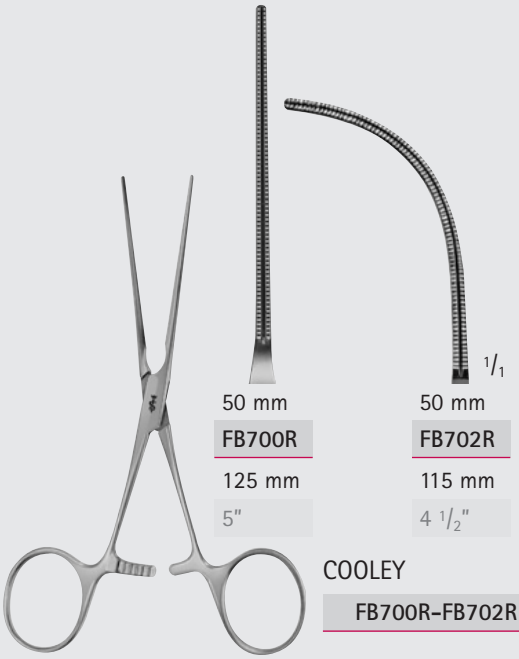
BJ550R–BJ553R

Vascular Instruments – Gefäßinstrumente

Atraumatic Vascular Clamps

Atraumatische Gefäßklemmen

ATRAUMATA®



COOLEY

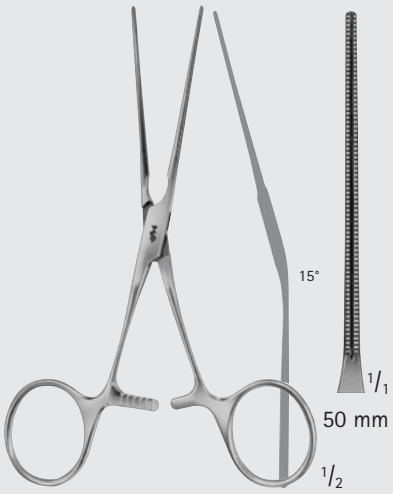
FB700R–FB702R



COOLEY

FB707R

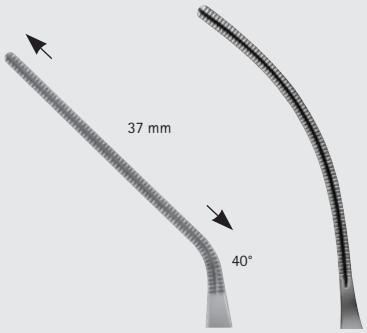
100 mm, 4"



COOLEY

FB701R

125 mm, 5"

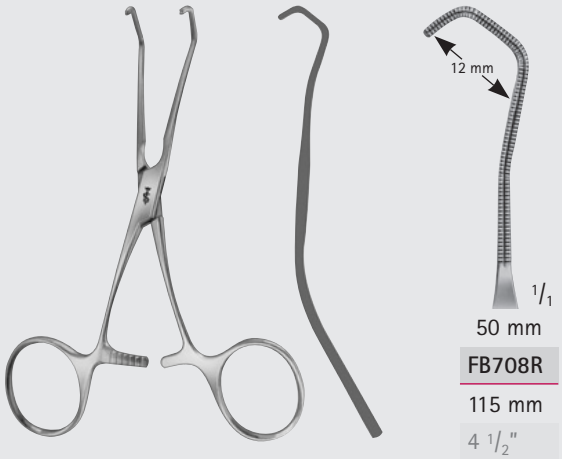






COOLEY

FB704R–FB706R



COOLEY

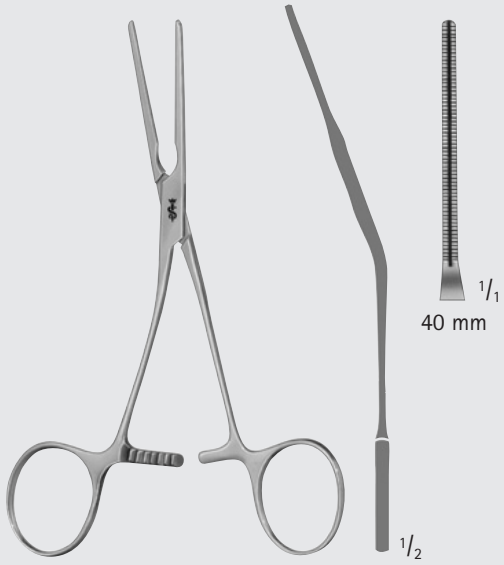
FB705R–FB708R



COOLEY

FB741R

145 mm, 5 3/4"



COOLEY

FB742R

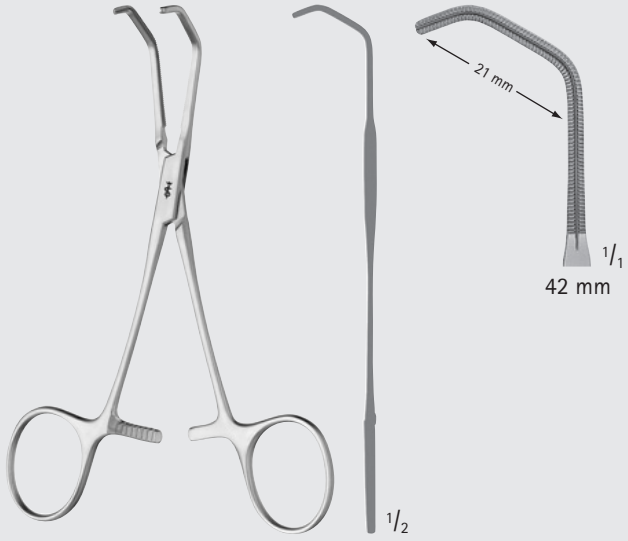
140 mm, 5 1/2"



COOLEY

FB743R

145 mm, 5 3/4"

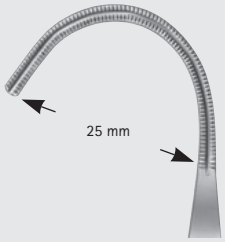


SATINSKY

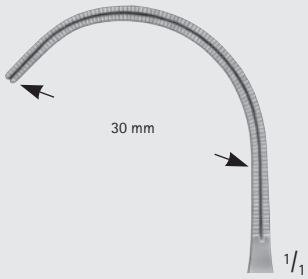
MB613R

140 mm, 5 1/2"





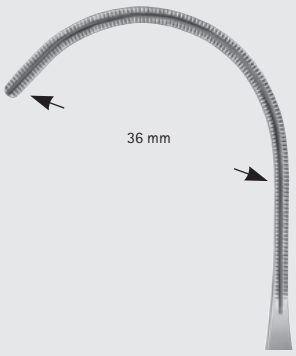
56 mm
FB731R
150 mm
6″



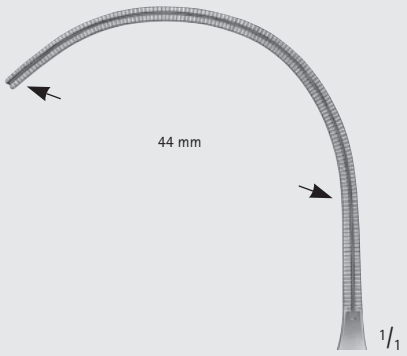
63 mm
FB732R
155 mm
6″

COOLEY-BECK
FB731R–FB732R





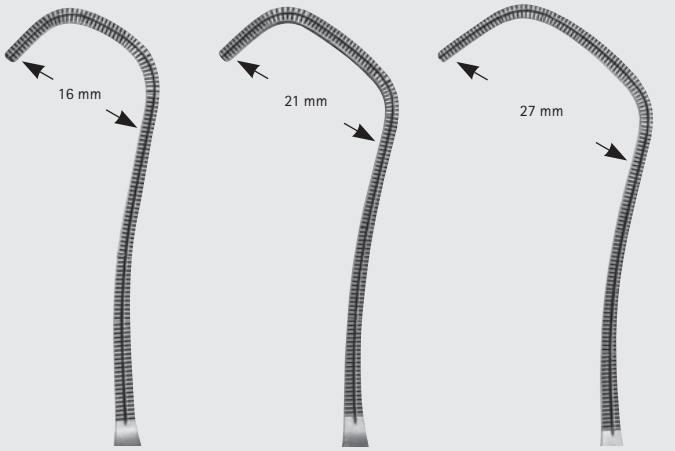
82 mm
FB734R



82 mm
FB735R

COOLEY
FB734R–FB735R
170 mm, 6 3/4″



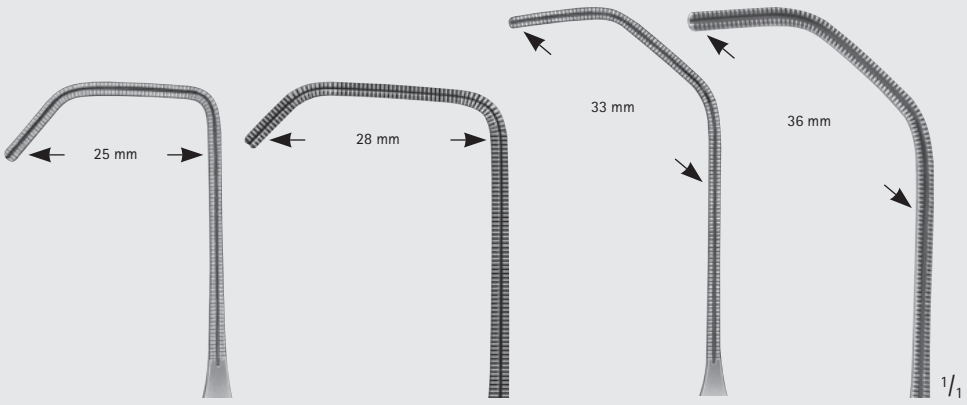


71 mm	76 mm	80 mm
FB725R	FB726R	FB727R
170 mm	175 mm	175 mm
6 3/4"	7"	7"

DERRA-COOLEY

FB725R–FB727R

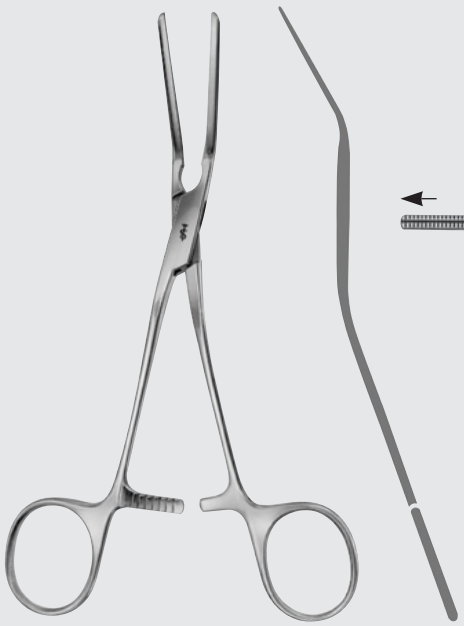


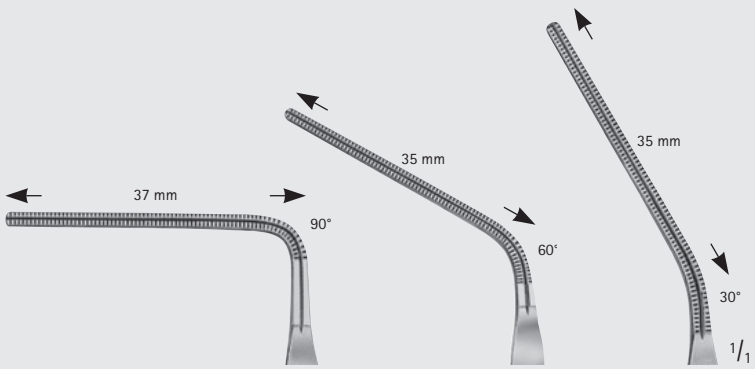


72 mm	76 mm	72 mm	76 mm
FB721R	FB722R	FB723R	FB724R
165 mm	165 mm	175 mm	180 mm
6 1/2"	6 1/2"	7"	7"

COOLEY

FB721R–FB724R





FB719R	FB718R	FB717R
150 mm	160 mm	165 mm
6"	6 1/4"	6 1/2"

COOLEY

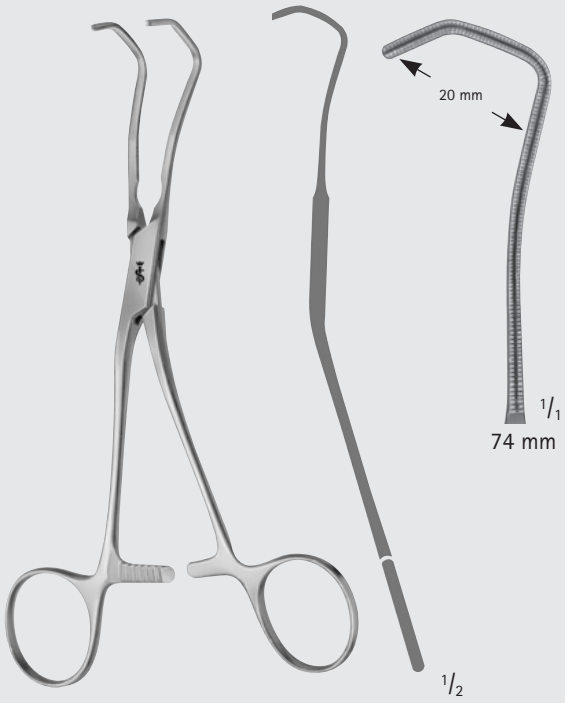
FB717R–FB719R



COOLEY

FB729R

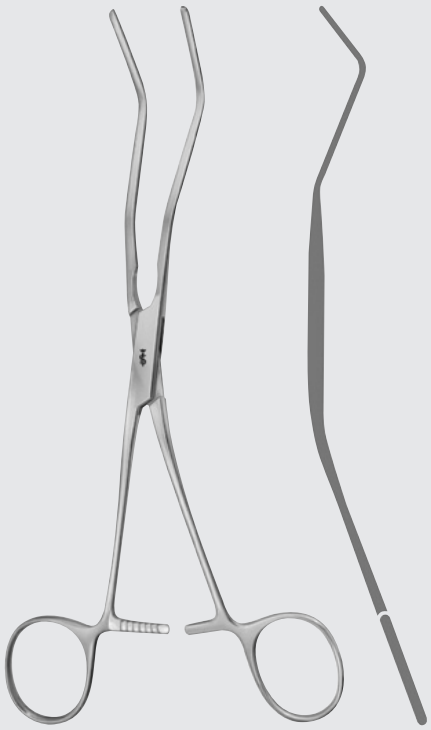
170 mm, 6 3/4"

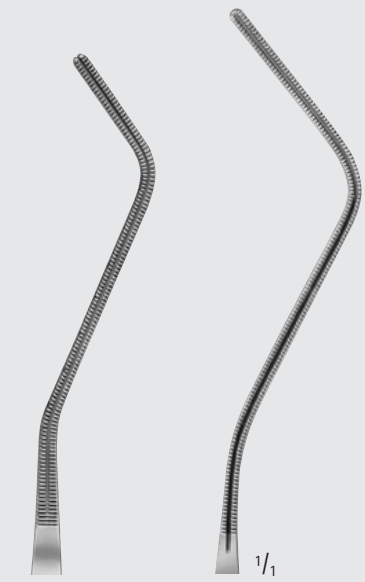


COOLEY

FB730R

175 mm, 7"





74 mm

FB736R

185 mm

7 1/4"

86 mm

FB737R

195 mm

7 3/4"

COOLEY

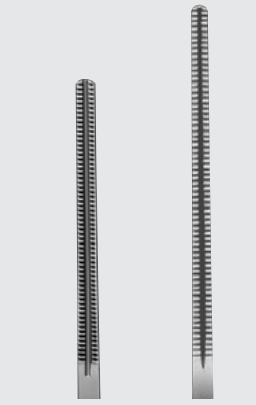
FB736R–FB737R

Toothing COOLEY

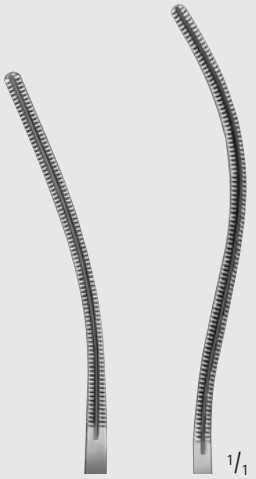
ATRAUMATA®

COOLEY Zahnung





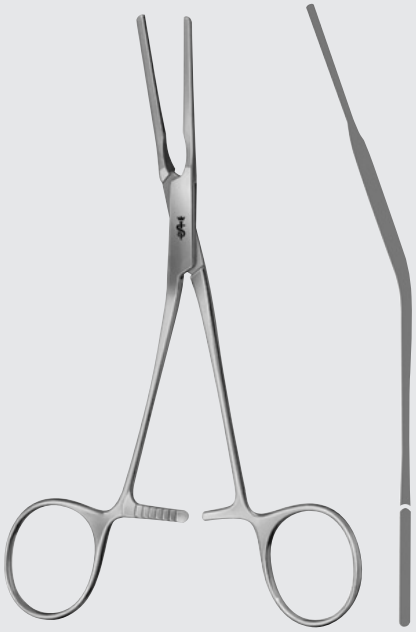
41 mm	52 mm
FB710R	FB712R
160 mm	170 mm
6 1/4"	6 3/4"



52 mm	63 mm
FB713R	FB715R
180 mm	180 mm
7"	7"

COOLEY

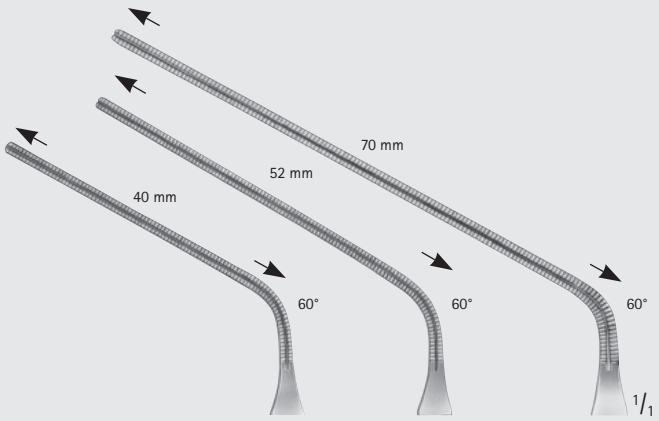
FB710R–FB715R



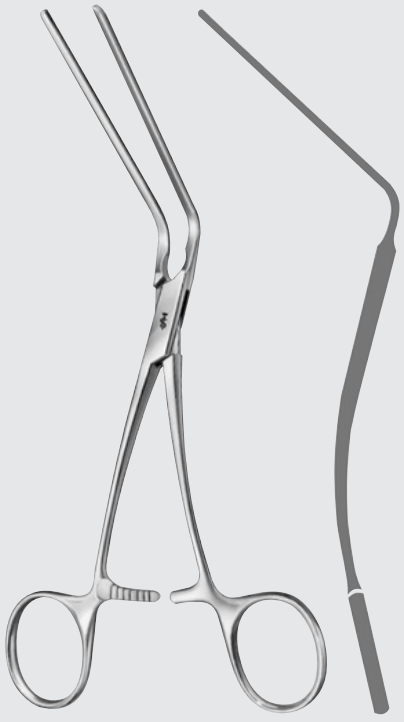
41 mm	52 mm
FB711R	FB714R
160 mm	170 mm
6 1/4"	6 3/4"

COOLEY

FB711R–FB714R

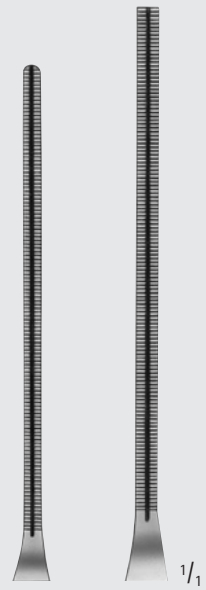


57 mm	67 mm	82 mm
FB754R	FB755R	FB756R
165 mm	170 mm	185 mm
6 1/2"	6 3/4"	7 1/4"

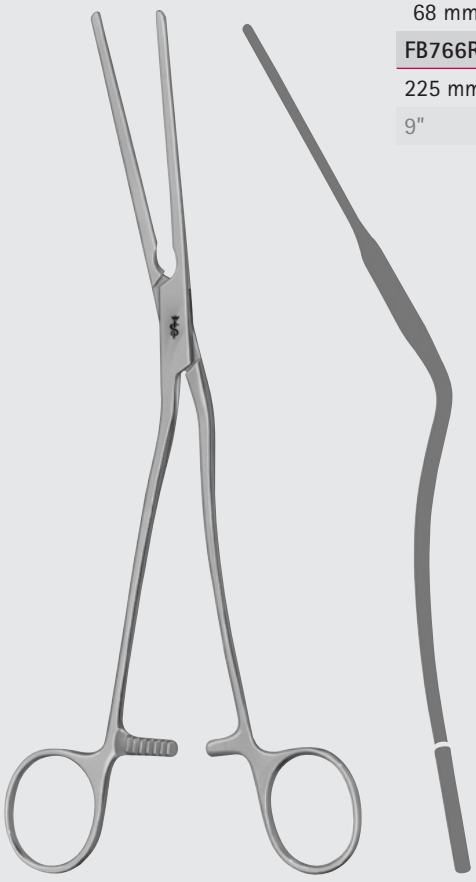


COOLEY

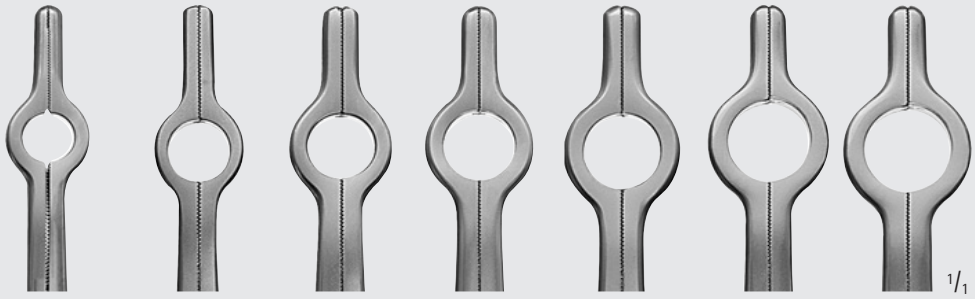
FB754R–FB756R



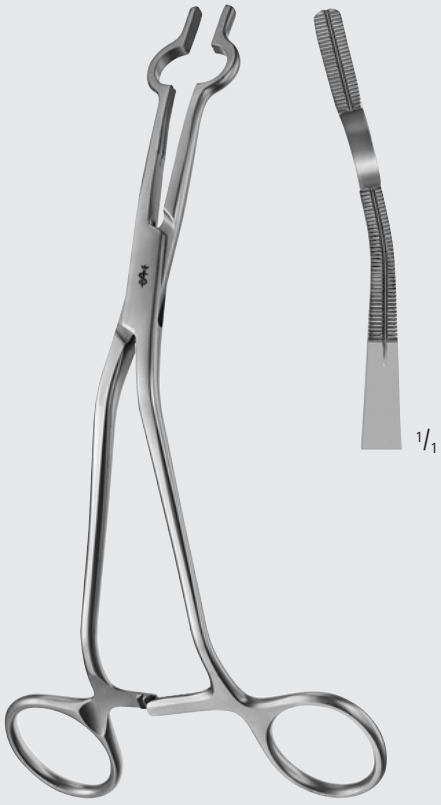
68 mm	75 mm
FB766R	FB767R
225 mm	270 mm
9"	10 3/4"

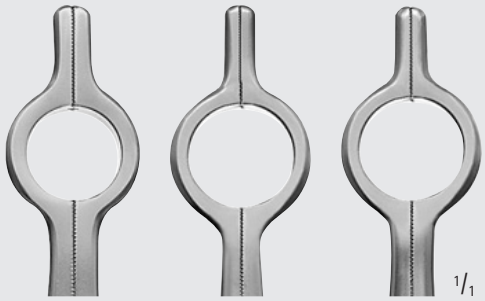


FB766R–FB767R



	FB640R	FB641R	FB642R	MB580R	FB644R	MB581R	MB582R
Charr.	20	24	26	28	30	32	34
	160 mm	160 mm	190 mm	190 mm	190 mm	190 mm	190 mm
	6 1/4"	6 1/4"	7 1/2"	7 1/2"	7 1/2"	7 1/2"	7 1/2"





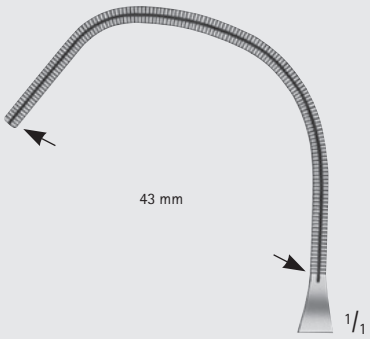
	FB647R	FB648R	FB649R
Charr.	36	38	40
	190 mm	190 mm	190 mm
	7 1/2"	7 1/2"	7 1/2"

COOLEY

FB640R–MB582R

Cava occlusion clamps

Cava Verschlussklemmen

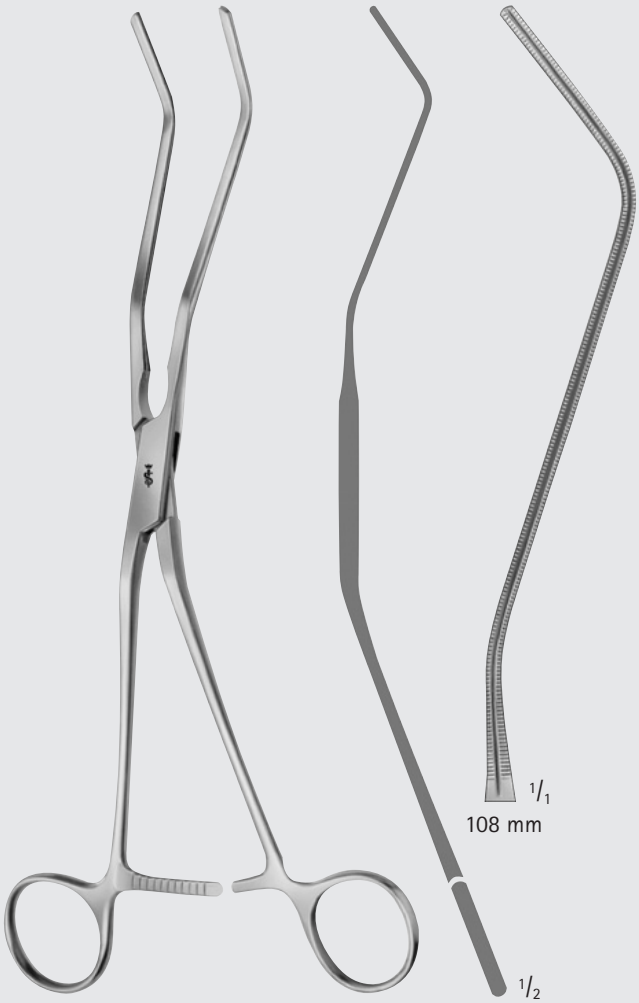




LEITZ

FB795R

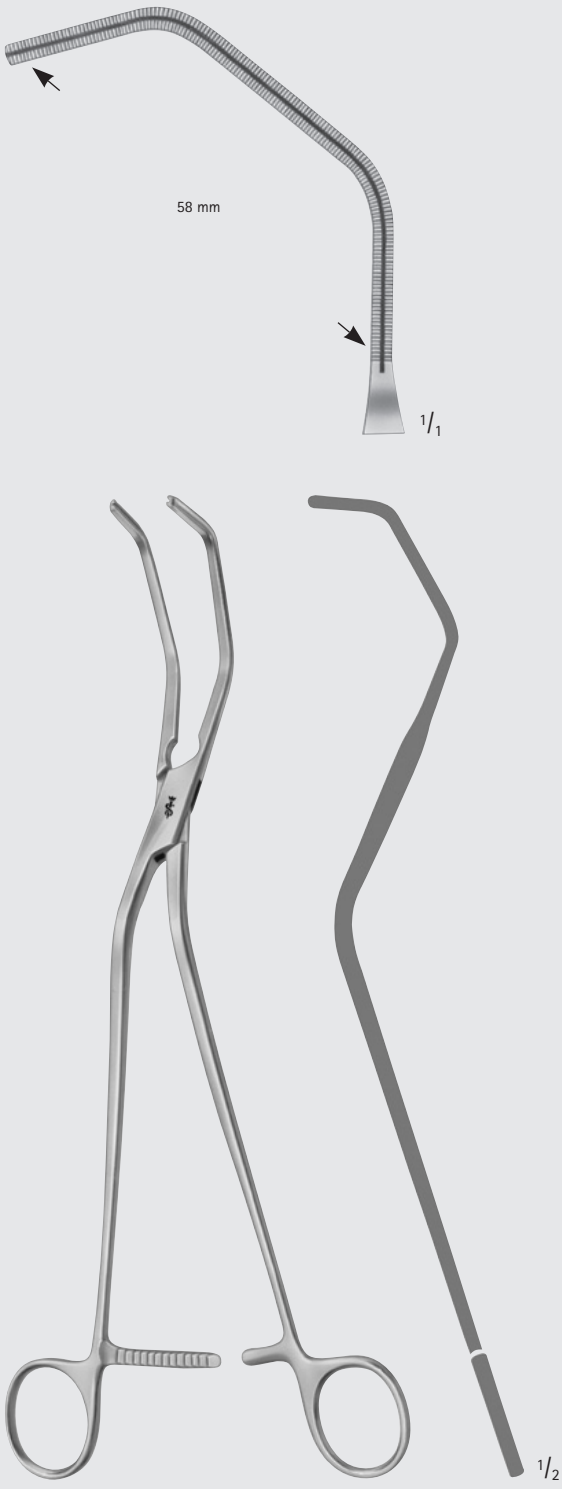
205 mm, 8"



COOLEY

FB738R

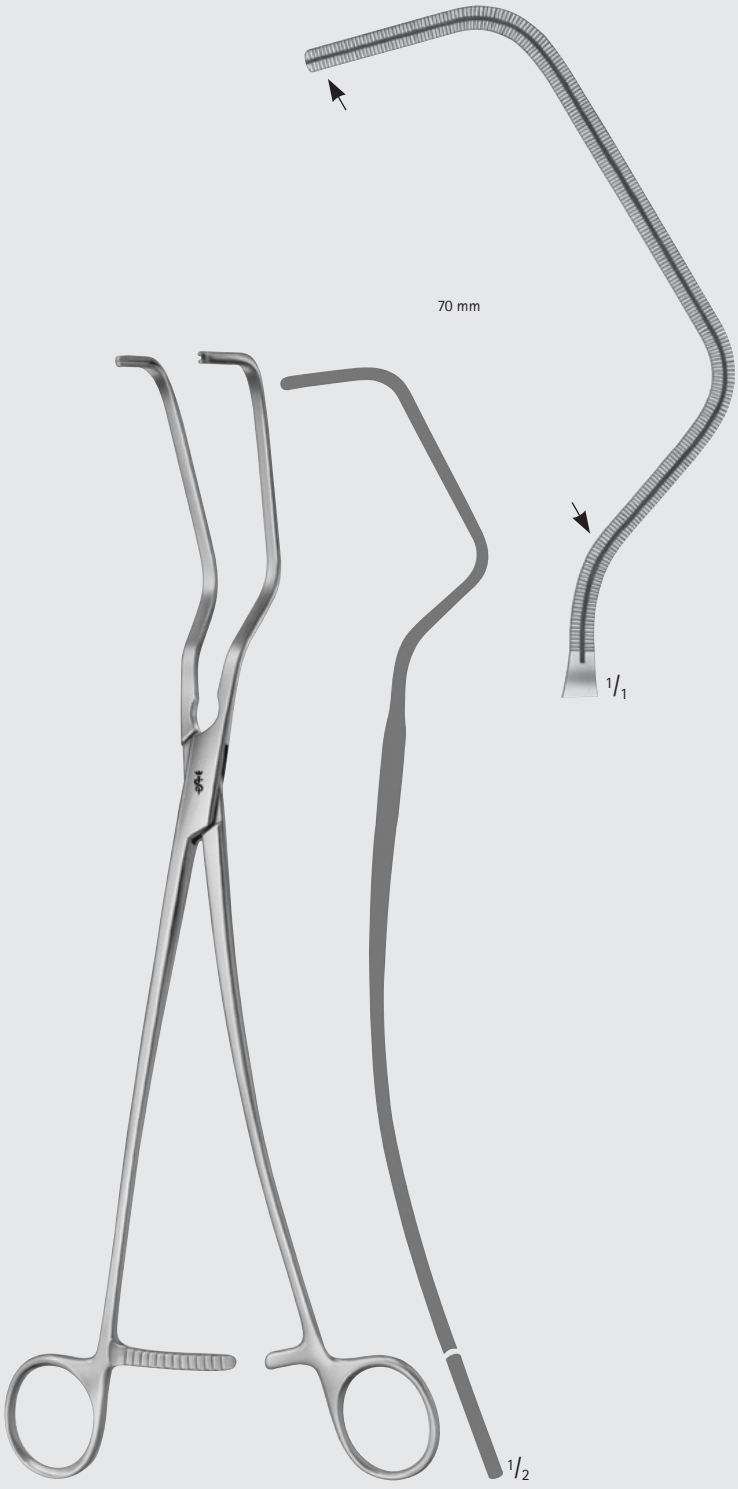
260 mm, 10 3/4"



COOLEY

FB773R

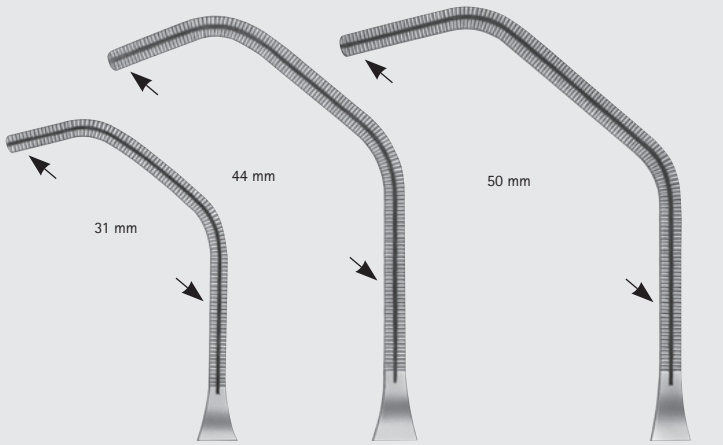
260 mm, 10 1/4"



PARRY-COOLEY

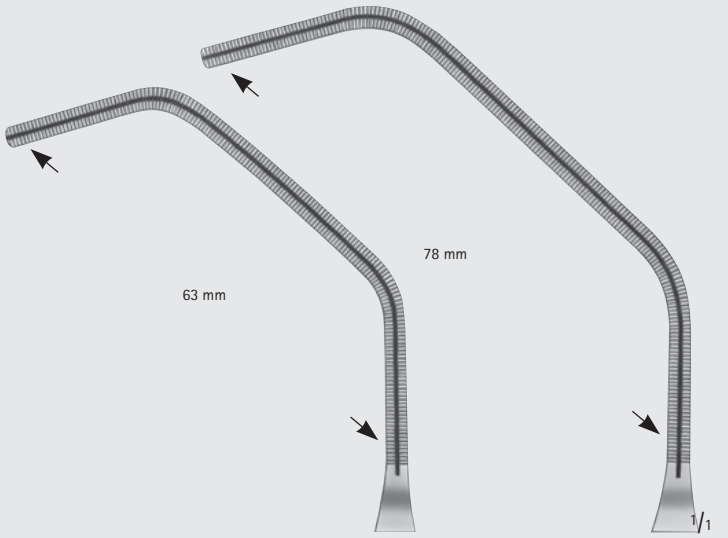
FB775R

295 mm, 11 3/4"



FB776R	FB777R	FB778R
205 mm	260 mm	265 mm
8"	10 1/4"	10 1/2"





FB779R	FB780R
265 mm	275 mm
10 1/2"	10 3/4"

COOLEY

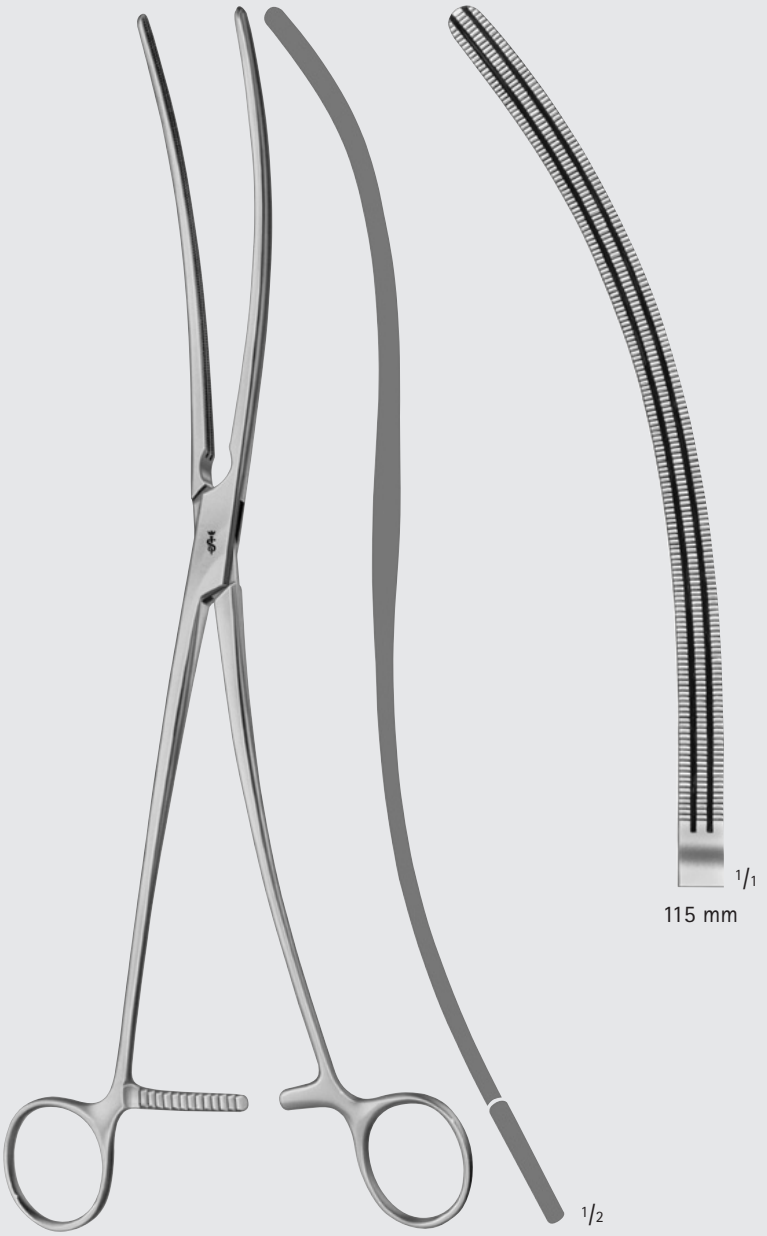
FB776R–FB780R

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Toothing COOLEY



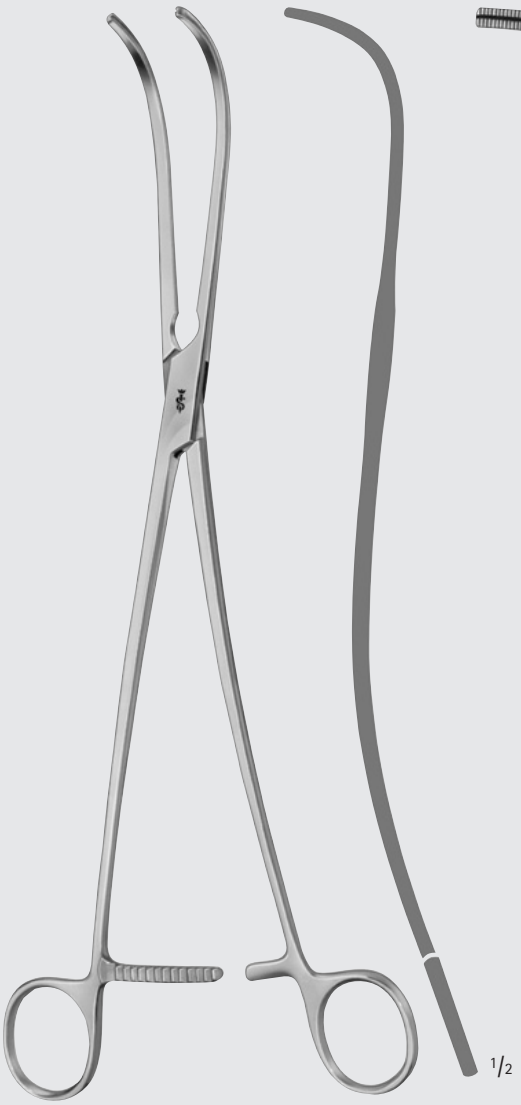
COOLEY Zahnung



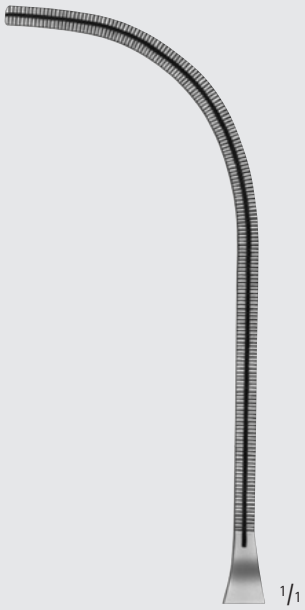
COOLEY

FB764R

320 mm, 12 3/4"



1/2



1/1

82 mm

COOLEY

FB765R

285 mm, 11 1/4"

MILLIMETERS



CRAFOORD-SELLORS

FB633R

elastic

federnd

240 mm, 9 1/2"



CRAFOORD

FB634R–FB635R

240 mm, 9 1/2"

FB634R

elastic

federnd

FB635R



BABY-SATINSKY

FB600R

Anastomosis clamp

Anastomosen-Klemme

150 mm, 6"



SATINSKY

FB602R

Anastomosis clamp

Anastomosen-Klemme

265 mm, 10 1/2"



SATINSKY

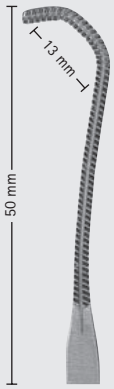
FB604R-FB605R

Anastomosis clamps

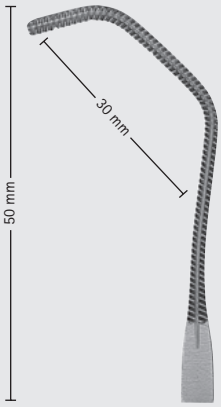
Anastomosen-Klemmen

265 mm, 10 1/2"

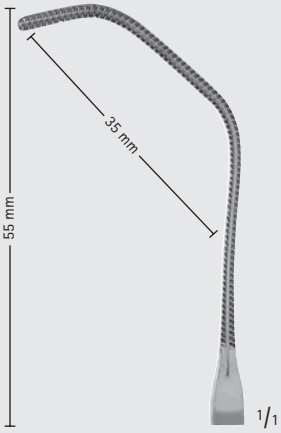
MILLIMETERS



MB743R
210 mm
8 1/4"



MB744R
215 mm
8 1/2"

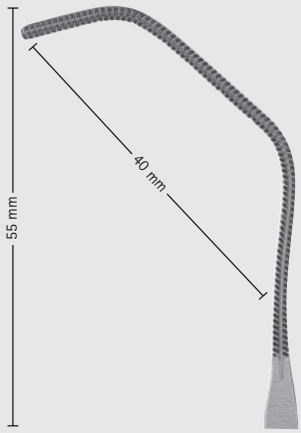


MB745R
215 mm
8 1/2"

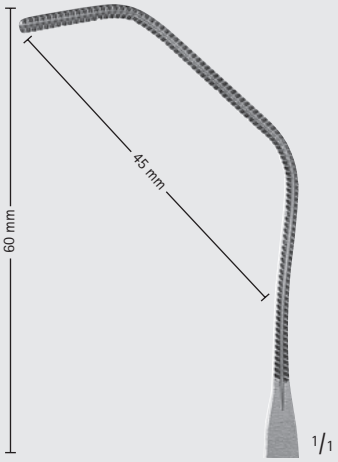


HENDREN

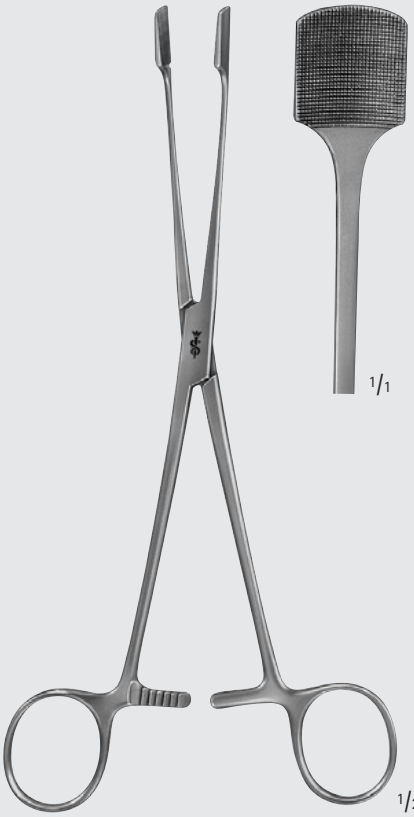
MB743R–MB747R



MB746R
220 mm
8 3/4"



MB747R
220 mm
8 3/4"



BORST

FB940R

Forceps for efficient tissue gluing in aortic dissection

Klemme für eine effiziente Verklebung von Gewebeschichten bei der Aortendissektion

215 mm, 8 1/2"

Inner diam: 4 mm
Innen-Ø: 4 mm



MB238R

168 mm

6 5/8"

Inner diam: 6 mm
Innen-Ø: 6 mm



MB239R

180 mm

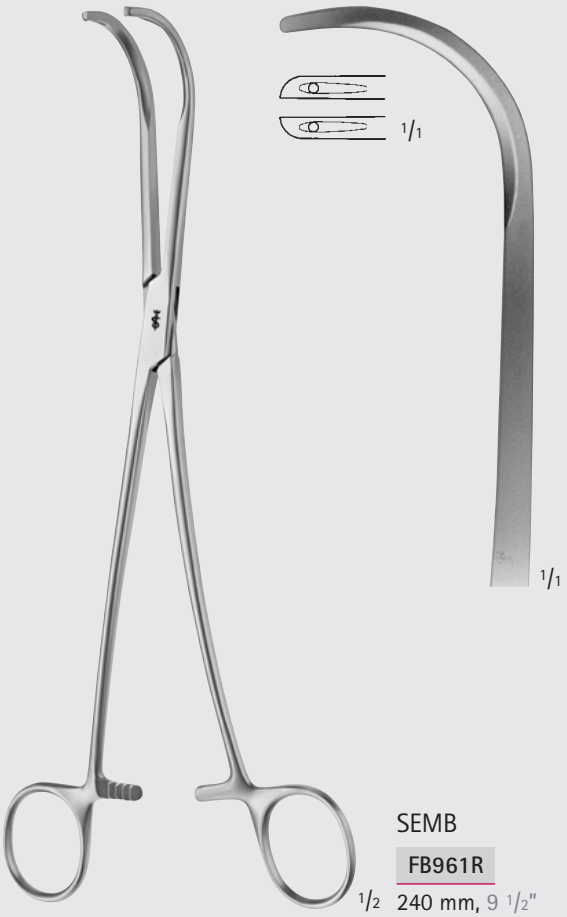
7"

JAVID

MB238R-MB239R

Carotid shunt clamps

Carotis Shunt Klemmen



SEMB

FB961R

240 mm, 9 1/2"



80 mm

FB955R



60 mm

FB954R



PRICE-THOMAS

FB950R

225 mm, 9"

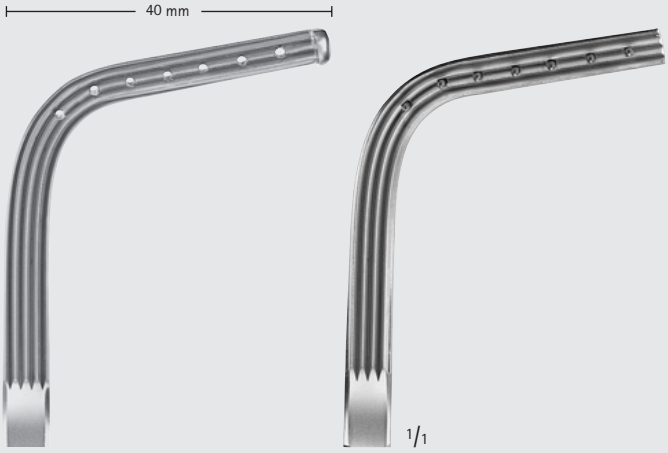


FB954R–FB955R

230 mm, 9"



1/2



1/1

right curved
rechts gebogen

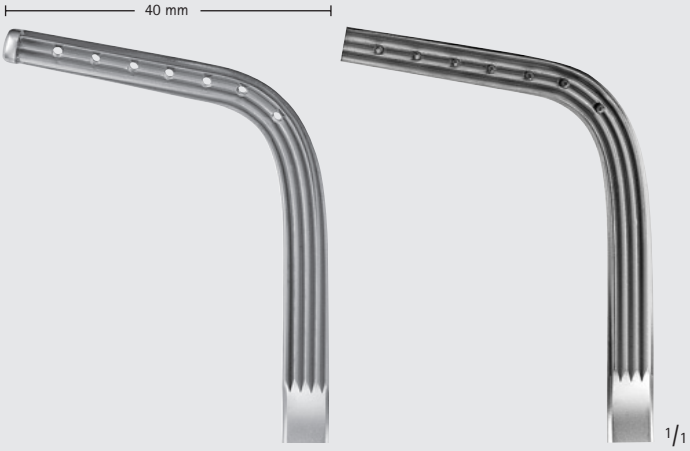
SAROT

MB610R

230 mm, 9"



1/2



1/1

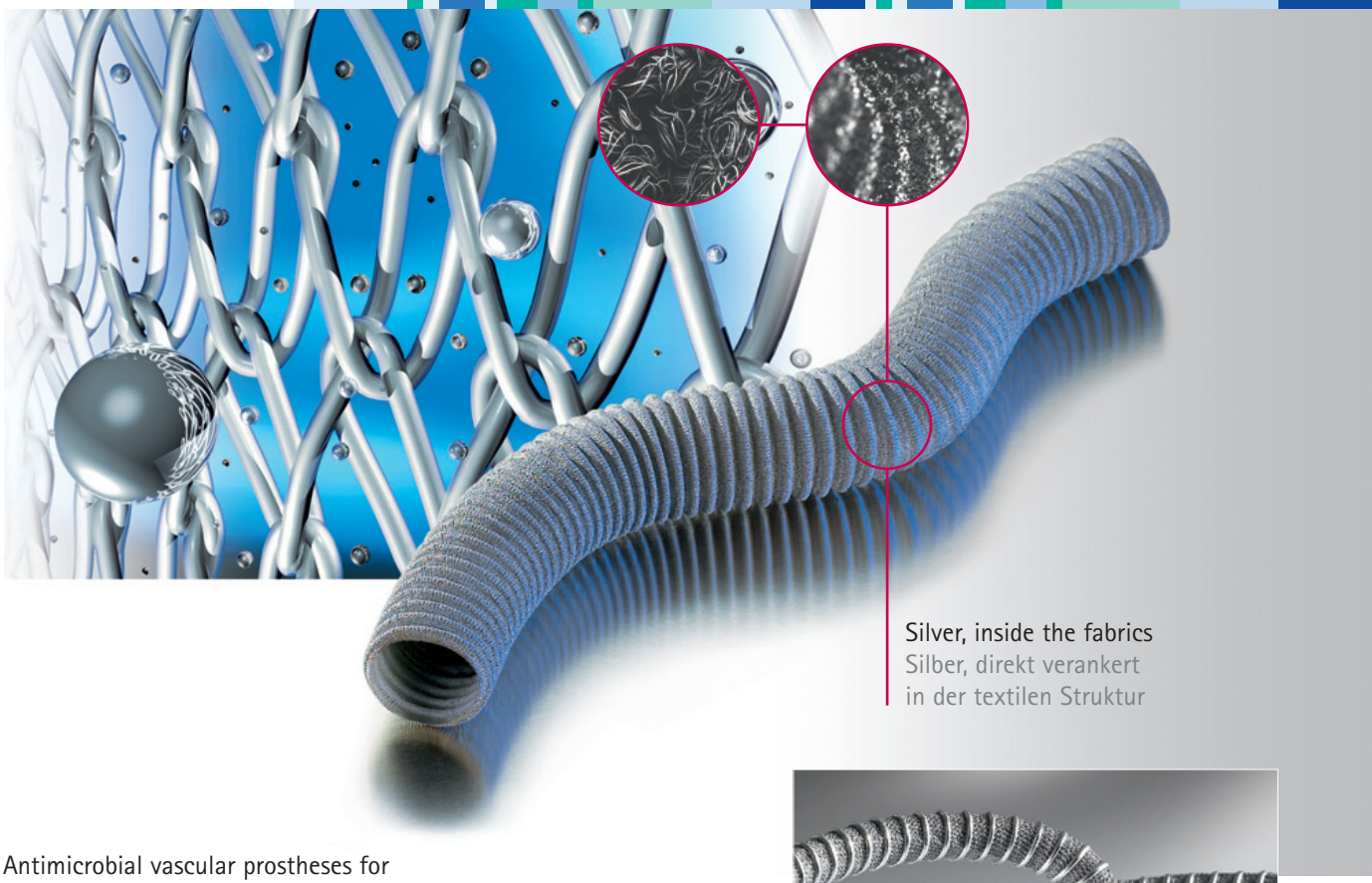
left curved
links gebogen

SAROT

MB608R

230 mm, 9"

Silver Graft



Silver, inside the fabrics
Silber, direkt verankert in der textilen Struktur



Silver Graft helix supported
Silver Graft spiralverstärkt

Antimicrobial vascular prostheses for prophylactic long-term prevention

- patented antimicrobial graft surface
- inhibits long-term graft infection
- reduces the adhesion of bacteria
- protects against microorganisms
- demonstrates high biocompatibility
- supports complication-free healing

Prophylaktischer Langzeitschutz gegen Gefäßprotheseninfektionen

- Patentierte antimikrobielle Prothesenoberfläche
- Signifikante Verringerung der Anhaftung von Bakterien
- Langzeitschutz durch direkte Silbereinlagerung in die Textilfasern
- Komplikationsloses, reizarmes Einheilungsverhalten
- Sanfter und natürlicher Einheilungsprozess

Uni-Graft® K DV



Warp-knitted, double velour polyester prostheses, impregnated with gelatin

- true zero-porosity
- biocompatible aldehyde free impregnation technology
- double velour structure
- no preclotting

Gewirkt, Doppelvelourstruktur, Gelatineimprägnierung

- Null-Porosität
- Aldehydfreie Imprägnierung
- Doppelvelourstruktur
- Kein Preclotting

Uni-Graft® W Aortic Arch



Woven, impregnated with gelatin

- P.A.S.S. Technology
  (Permanent Arch Stabilizing System)
- adapted anatomical shape, which reduces surgery time
- different guidelines (1 and 3 lines) on different sides

Gewebt, Gelatineimprägnierung

- P.A.S.S. Technology
  (Permanentes Aortenbogen Stabilisierungssytem)
- Reduktion der Operationszeit dank guter anatomischer Form
- unterschiedliche Führungslinien (1- bzw. 3-fach) zur besseren Orientierung

Uni-Graft® W



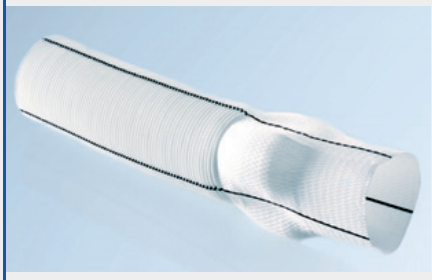
Woven, impregnated vascular prostheses

- true zero-porosity
- biocompatible aldehyde free impregnation technology
- two different guidelines for better orientation

Gewebt, Gelatineimprägnierung

- Null-Porosität
- Biokompatible, aldehydfreie Imprägnierung
- Zwei unterschiedliche Führungslinien zu besseren Orientierung

Uni-Graft® W Sinus



- seemless woven in one piece with integrated aortic sinus
- three guidelines
- no pleats in the annulus area
- outer velour for better tissue integration
- aerodynamic smooth surface inside

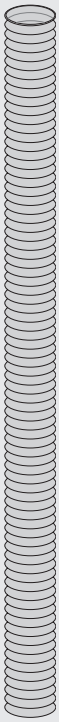
- Nahtlos in einem Stück gewebt mit integriertem Aortensinus
- Drei eingewebte Orientierungslinien
- Keine Plissierfalten im Anulus Bereich
- Äußere Velourschicht zur besseren Protheseneinheilung
- Strömungsgünstige, glatte Oberfläche auf der Protheseninnenseite

Silver Graft

Antimicrobial vascular prostheses for prophylactic long-term prevention

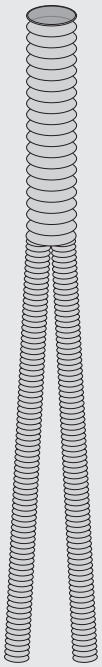
Prophylaktischer Langzeitschutz gegen Gefäßprotheseninfektionen

Silver Graft – straight tubes
Silver Graft – Gerade Röhren



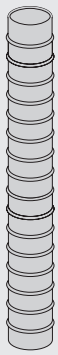
Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1108000	15 cm	8 mm	1
1108001		16 mm	1
1108002		18 mm	1
1108003		20 mm	1
1108004	30 cm	8 mm	1
1108005		14 mm	1
1108006		16 mm	1
1108007		18 mm	1
1108008		20 mm	1
1108009	40 cm	6 mm	1
1108010		7 mm	1
1108011		8 mm	1
1108012	60 cm	6 mm	1
1108013		7 mm	1
1108014		8 mm	1

Silver Graft – bifurcations
Silver Graft – Bifurkationen



Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1108021	40 cm	12 x 6 mm	1
1108017		14 x 7 mm	1
1108015		16 x 8 mm	1
1108016		18 x 9 mm	1
1108018		20 x 10 mm	1
1108019		22 x 11 mm	1
1108020		24 x 12 mm	1

Silver Graft – helix supported
Silver Graft – Spiralverstärkt



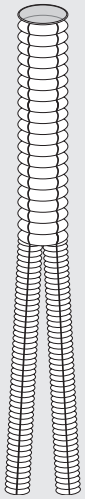
Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1108022	60 cm	6 mm	1
1108023		8 mm	1
1108024	90 cm	6 mm	1
1108025		8 mm	1

Uni-Graft® K DV

Warp-knitted, impregnated vascular prostheses

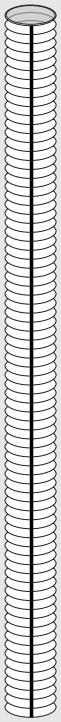
Gewirkt, Doppelvelourstruktur, Gelatineimprägnierung

Uni-Graft® K DV – bifurcations
Uni-Graft® K DV – Bifurkationen



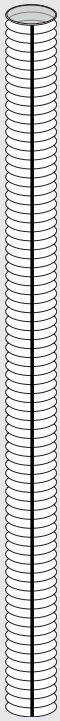
Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1104535	40 cm	12 x 6 mm	1
1104519		12 x 7 mm	1
1104527		14 x 7 mm	1
1104551		14 x 8 mm	1
1104560		16 x 8 mm	1
1104578		16 x 9 mm	1
1104586		18 x 9 mm	1
1104594		18 x 10 mm	1
1104608		20 x 10 mm	1
1104616		20 x 11 mm	1
1104624		22 x 11 mm	1
1104640		24 x 12 mm	1

Uni-Graft® K DV – straight tubes
Uni-Graft® K DV – Gerade Röhren



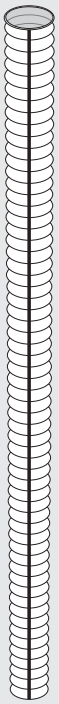
Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1101030	10 cm	6 mm	1
1101803		10 mm	1
1101021	15 mm	6 mm	1
1101048		7 mm	1
1101013		8 mm	1
1101102		10 mm	1
1101129		12 mm	1
1101145		14 mm	1
1101161		16 mm	1
1101188		18 mm	1
1101200		20 mm	1
1101226		22 mm	1
1101242		24 mm	1
1101265		26 mm	1
1101281		28 mm	1
1101303		30 mm	1
1101320		32 mm	1
1101346		34 mm	1

Uni-Graft® K DV – straight tubes
Uni-Graft® K DV – Gerade Röhren



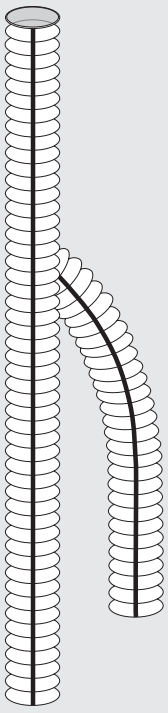
Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1102060	30 cm	6 mm	1
1102079		7 mm	1
1102087		8 mm	1
1102109		10 mm	1
1101137		12 mm	1
1104144		14 mm	1
1104160		16 mm	1
1104187		18 mm	1
1104209		20 mm	1
1104225		22 mm	1
1104241		24 mm	1
1102192		26 mm	1
1102206		28 mm	1
1102214		30 mm	1
1102222		32 mm	1
1102230		34 mm	1
1102249		36 mm	1
1101269	40 cm	6 mm	1
1101277		7 mm	1
1101285		8 mm	1
1101307		10 mm	1
1101684		18 mm	1
1104063	60 cm	6 mm	1
1104071		7 mm	1
1104080		8 mm	1
1104101		10 mm	1
1104128		12 mm	1
1104421	70 cm	6 mm	1
1104422		7 mm	1
1104423		8 mm	1
1104403	100 cm	6 mm	1
1104411		8 mm	1
1104420		10 mm	1

Uni-Graft® K DV – tapered
Uni-Graft® K DV – Konisch



Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1102869	60 cm	6 - 8 mm	1

Uni-Graft® K DV – axillo bifemoral
Uni-Graft® K DV – Axillo Bifemoral



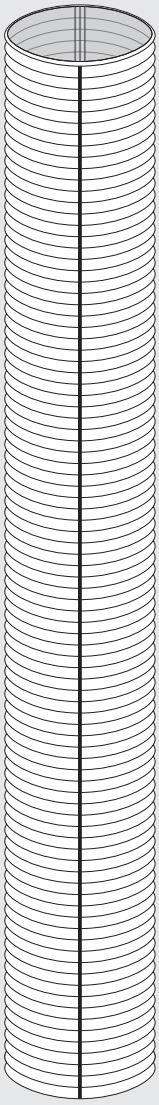
Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser		Sales unit: pcs. Stück per PAK
1104705	100/60 cm	8 mm,	right side-branch Seitenarm rechts	1
1104713		8 mm,	left side-branch Seitenarm links	1
1104730		10 mm,	left side-branch Seitenarm links	1

Uni-Graft® W

Woven, impregnated vascular prostheses

Gewebt, Gelatineimprägnierung

Uni-Graft® W – straight tubes
Uni-Graft® W – Gerade Röhren



Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1106392	15 cm	24 mm	1
1106406		26 mm	1
1106414		28 mm	1
1106422		30 mm	1
1106430		32 mm	1
1106449		34 mm	1
1106457		36 mm	1
1106465		38 mm	1
1106635	30 cm	24 mm	1
1106643		26 mm	1
1106651		28 mm	1
1106660		30 mm	1
1106678		32 mm	1
1106686		34 mm	1
1106694		36 mm	1
1106708		38 mm	1

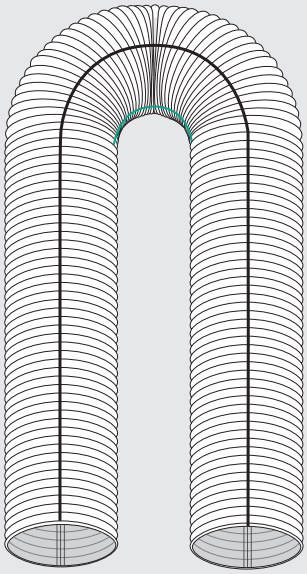
Uni-Graft® W Aortic Arch

Woven, impregnated vascular prostheses

Gewebt, Gelatineimprägnierung

Uni-Graft® W – Aortic Arch

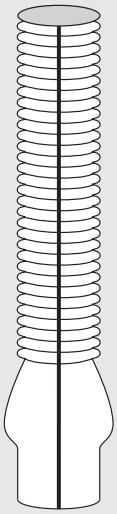
Uni-Graft® W – Aortenbogen



Cat. No. Art. Nr.	Diameter Durchmesser	Angle Winkel	Sales unit: pcs. Stück per PAK
1106801	26 mm	90°	1
1106802		180°	1
1106803	28 mm	90°	1
1106804		180°	1
1106806	30 mm	90°	1
1106807		180°	1
1106808	32 mm	90°	1
1106809		180°	1

Uni-Graft® W – Sinus

Uni-Graft® W – Sinus



Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
1106826	20 cm	26 mm	1
1106828		28 mm	1
1106830		30 mm	1
1106832		32 mm	1



For further details see
brochure No. **6050129.**

Weitere Informationen finden Sie
in unserem Prospekt Nr. **XP0009.**



For further details see
brochure No. **6050152.**

Weitere Informationen finden Sie
in unserem Prospekt Nr. **6050152.**



For further details see
brochure No. **6050151.**

Weitere Informationen finden Sie
in unserem Prospekt Nr. **XP0097.**

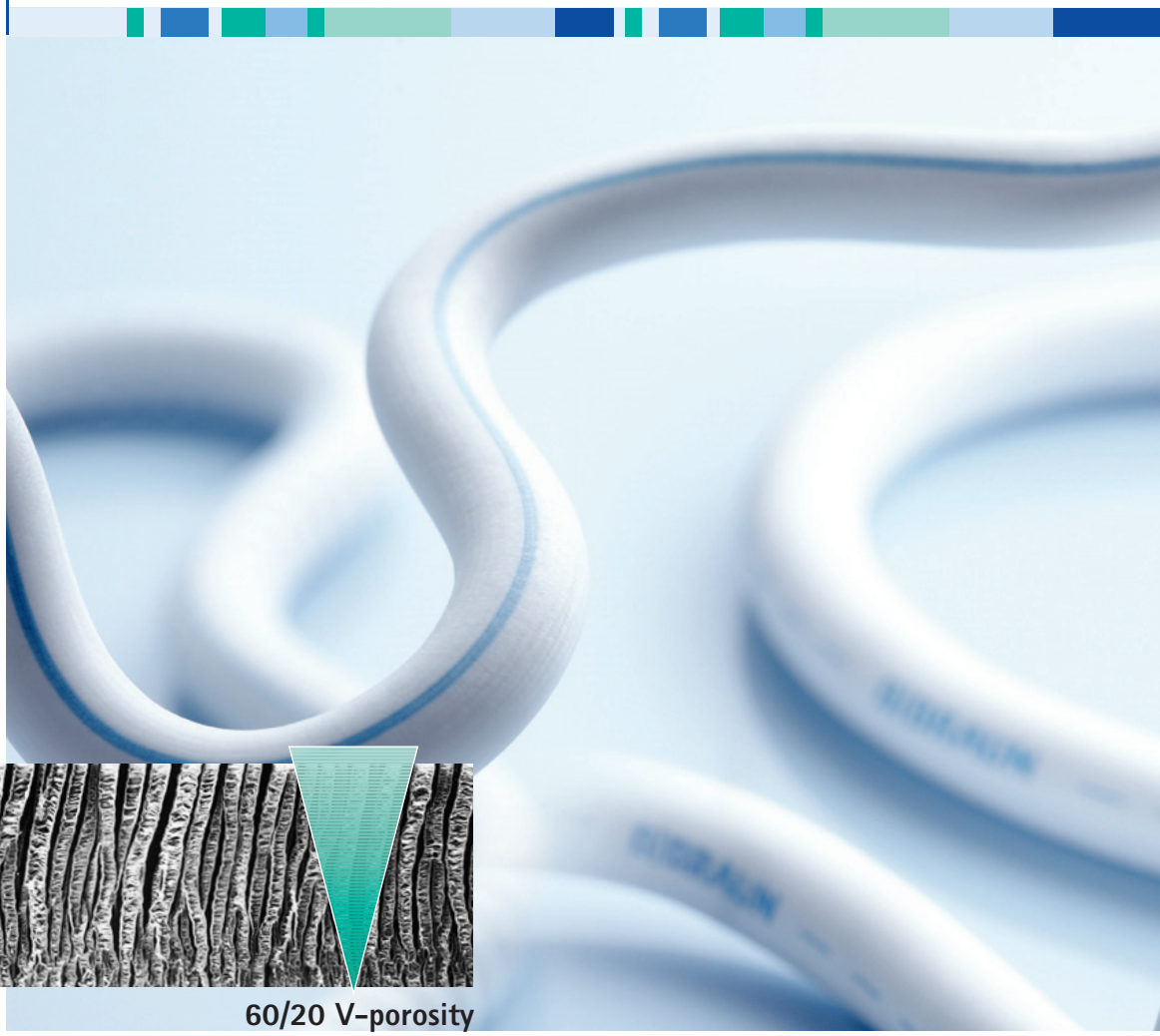


For further details see
brochure No. **6050151.**

Weitere Informationen finden Sie
in unserem Prospekt Nr. **XP0180.**

VascuGraft PTFE

Expanded PTFE vascular prostheses
Expandierte PTFE Gefäßprothesen



Outside
Aussenseite



Inside
Innenseite

60/20 V-porosity
60/20 V-Porosität

Vascular prostheses in one layer design with an advanced structure:

- radial nodes provide a unique flexibility and kink-resistance.
- V-porosity (60 µm pores outside, 20 µm pores inside) improves healing
- provides maximum protection against kinking or twisting
- removable helix support
- tapered, short taper and stepped taper configurations are available for use in special hemodynamic conditions

Einschichtige Gefäßprothese mit optimierter Wandstruktur

- Radiale Nodien ermöglichen ein einzigartiges, flexibles und knickstabiles Design
- V-förmige Poren (60 µm Porengröße außenseitig, 20 µm Porengröße innenseitig) beschleunigen die Protheseneinheilung
- Hohe Knick- und Kompressionsstabilität
- Abnehmbare Spiralverstärkung
- Verschiedene konische Konfigurationen für unterschiedliche hämodynamische Bedingungen verfügbar

VascuGraft SOFT

Expanded PTFE vascular prostheses
Expandierte PTFE Gefäßprothesen



Optimized material properties

- reinforced two layer design reduces risk of unzipping
- higher burst strength
- increased tensile strength
- superior suture retention force
- easy to suture

Optimierte Materialeigenschaften

- Verstärktes Zwei-Komponenten-Wanddesign
- Verbesserte Geschmeidigkeit
- Hohes Nahtrückhaltevermögen
- Einfaches Einnähen

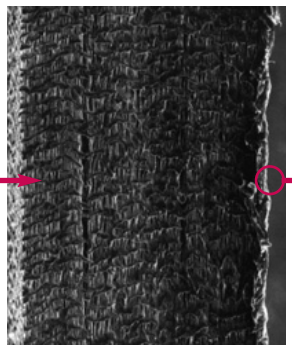
Unique wrap design

- 60 µm wrap designed to promote better tissue attachment
- highly porous outer wrap for a "vein like feeling" (extremely soft surface integrity)

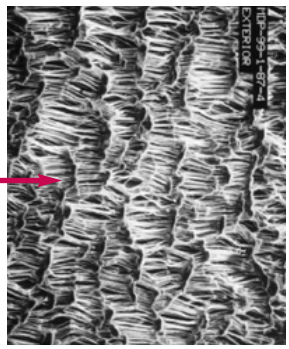
Einzigartiges Wanddesign

- Hochporöse Außenummantelung für venenähnliche Strukturen
- Bessere Zellanlagerung bei 60 µm Porengröße der Ummantelung

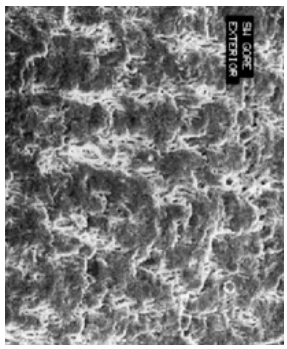




Inside Innenseite **Outside** Aussenseite



Reinforced SOFT wrap
Verstärkte SOFT Ummantelung



Conventional wrap
Herkömmliche Ummantelung

VascuGraft PTFE

Expanded PTFE vascular prostheses

Expandierte PTFE Gefäßprothesen



VascuGraft PTFE – standard wall

VascuGraft PTFE – Standard Wand

Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
V1103004	20 cm	6 mm	1
V1103006		8 mm	1
V1103007	30 cm	6 mm	1
V1103010	40 cm	4 mm	1
V1103011		5 mm	1
V1103012		6 mm	1
V1103013		8 mm	1
V1103015	50 cm	5 mm	1
V1103017		6 mm	1
V1103018		7 mm	1
V1103019		8 mm	1
V1103020		10 mm	1
V1103021	60 cm	6 mm	1
V1103025	70 cm	4 mm	1
V1103026		5 mm	1
V1103027		6 mm	1
V1103028		7 mm	1
V1103029		8 mm	1
V1103030		10 mm	1
V1103033	80 cm	6 mm	1
V1103039	90 cm	8 mm	1



VascuGraft PTFE – standard wall – helix supported
VascuGraft PTFE – Standard Wand – spiralverstärkt

Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
V1103051	40 cm	6 mm	1
V1103052		8 mm	1
V1103053	50 cm	6 mm	1
V1103054		7 mm	1
V1103055		8 mm	1
V1103056		10 mm	1
V1103057	60 cm	6 mm	1
V1103058		8 mm	1
V1103061	70 cm	5 mm	1
V1103062		6 mm	1
V1103063		7 mm	1
V1103064		8 mm	1
V1103068	80 cm	6 mm	1
V1103069		7 mm	1
V1103070		8 mm	1
V1103074	90 cm	8 mm	1



VascuGraft PTFE – standard wall – centre helix
VascuGraft PTFE – Standard Wand – zentral spiralisiert

V1103076	45 cm	6 mm	1

VascuGraft PTFE – standard wall – taper
VascuGraft PTFE – Standard Wand – konisch



V1103100	40 cm	4 – 6 mm	1
V1103101		4 – 7 mm	1
V1103104	50 cm	4 – 7 mm	1
V1103108	70 cm	5 - 8 mm	1

VascuGraft PTFE – standard wall – taper – helix supported
VascuGraft PTFE – Standard Wand – konisch – spiralverstärkt



V1103114	70 cm	4 – 7 mm	1
V1103115		5 - 8 mm	1
V1103116		6 - 8 mm	1



VascuGraft PTFE – standard wall – short taper
VascuGraft PTFE – Standard Wand – kurz-konisch

Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
V1103086	30 cm	4 - 7 mm	1
V1103087	45 cm	4 – 6 mm	1
V1103088		4 – 7 mm	1
V1103089		5 - 8 mm	1



VascuGraft PTFE – standard wall – short taper - centre helix
VascuGraft PTFE – Standard Wand – kurz-konisch - zentral spiralisiert

V1103097	45 cm	4 – 6 mm	1



VascuGraft PTFE – standard wall – step taper
VascuGraft PTFE – Standard Wand – abgestuft konisch

V1103078	30 cm	4 - 7 mm	1



VascuGraft PTFE – thin wall
VascuGraft PTFE – Dünnwand

V1103250	10 cm	3 mm	1
V1103251		3.5 mm	1
V1103252		4 mm	1
V1103129	20 cm	6 mm	1
V1103135	40 cm	4 mm	1
V1103136		5 mm	1
V1103137		6 mm	1
V1103138		8 mm	1
V1103142	50 cm	6 mm	1
V1103144		8 mm	1
V1103146	60 cm	6 mm	1
V1103149		8 mm	1
V1103151	70 cm	4 mm	1
V1103153		6 mm	1
V1103154		7 mm	1
V1103155		8 mm	1
V1103159	80 cm	6 mm	1
V1103160		7 mm	1
V1103161		8 mm	1

VascuGraft PTFE – thin wall – helix supported
VascuGraft PTFE – Dünnwand – spiralverstärkt



Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
V1103171	20 cm	6 mm	1
V1103177	40 cm	6 mm	1
V1103178		8 mm	1
V1103182	50 cm	6 mm	1
V1103183		7 mm	1
V1103184		8 mm	1
V1103186	60 cm	6 mm	1
V1103187		8 mm	1
V1103189	70 cm	5 mm	1
V1103190		6 mm	1
V1103191		7 mm	1
V1103192		8 mm	1
V1103194	80 cm	5 mm	1
V1103195		6 mm	1
V1103197		8 mm	1

VascuGraft PTFE – thin wall – taper
VascuGraft PTFE – Dünnwand – konisch



V1103216	40 cm	4 – 7 mm	1
V1103217		5 - 8 mm	1
V1103221	70 cm	4 - 6 mm	1
V1103222		4 - 7 mm	1

VascuGraft PTFE – thin wall – taper – helix supported
VascuGraft PTFE – Dünnwand – konisch – spiralverstärkt



V1103206	70 cm	4 – 7 mm	1
V1103207		5 - 8 mm	1
V1103208		6 - 8 mm	1

VascuGraft SOFT

Second generation of reinforced ePTFE-grafts with two layer design

Zweite Generation verstärkter ePTFE Prothesen mit Zwei-Komponenten-Wand-Design

VascuGraft SOFT – standard wall
VascuGraft SOFT – Standard Wand



Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
V1101312	40 cm	6 mm	1
V1101317	50 cm	6 mm	1
V1101331	80 cm	7 mm	1

VascuGraft SOFT – standard wall – helix supported
VascuGraft SOFT – Standard Wand – spiralverstärkt



V1101362	50 cm	6 mm	1
V1101375	80 cm	6 mm	1

VascuGraft SOFT – standard wall – centre helix
VascuGraft SOFT – Standard Wand – zentral spiralisiert



V1101392	45 cm	6 mm	1

VascuGraft SOFT – thin wall
VascuGraft SOFT – Dünnwand



Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
V1101469	40 cm	6 mm	1
V1101470		8 mm	1
V1101475	50 cm	6 mm	1
V1101486	70 cm	7 mm	1
V1101487		8 mm	1
V1101490	80 cm	6 mm	
V1101492		8 mm	1

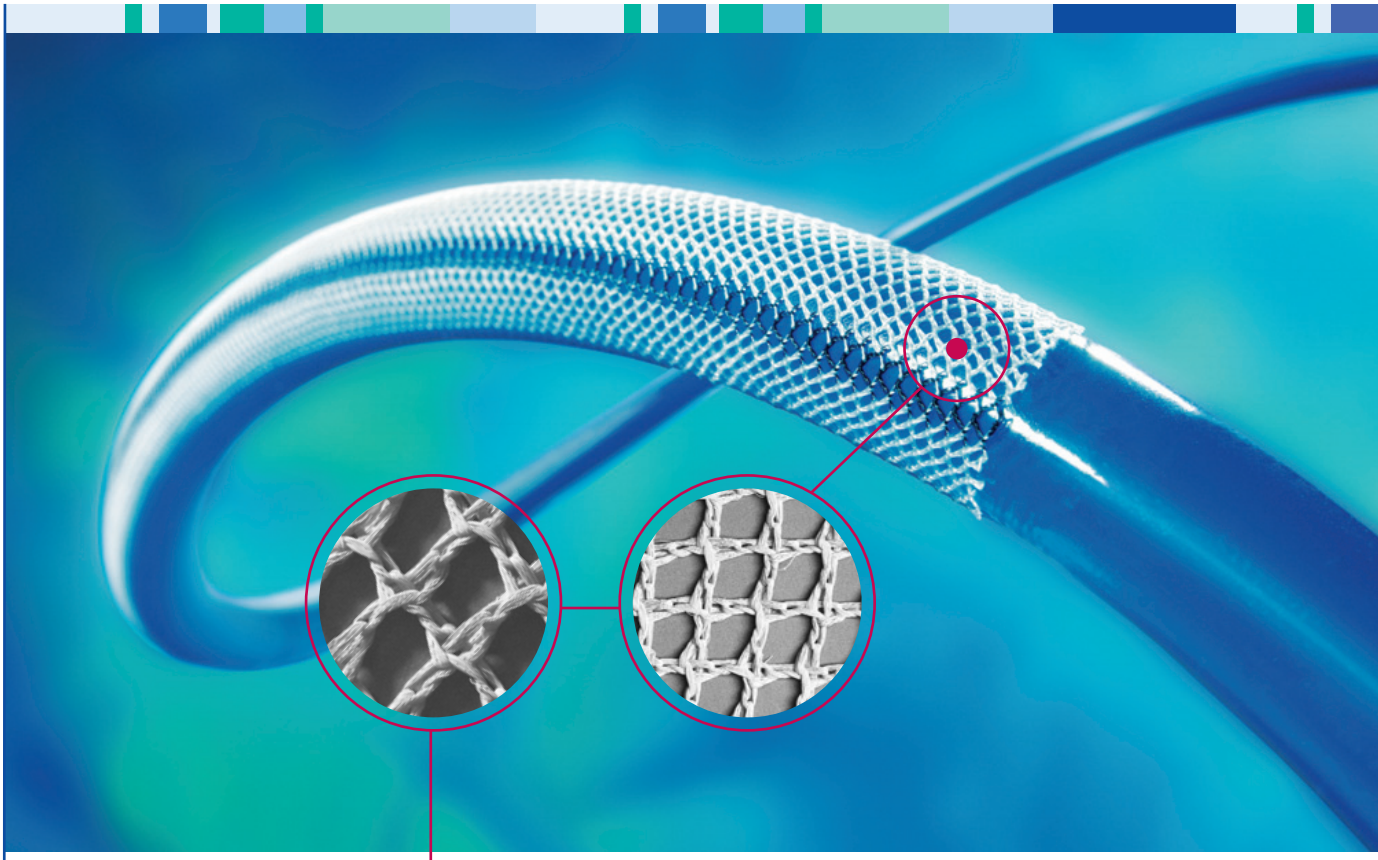
VascuGraft SOFT – thin wall – helix support
VascuGraft SOFT – Dünnwand – spiralverstärkt



V1101512	50 cm	6 mm	1
V1101514		8 mm	1
V1101520	70 cm	6 mm	1
V1101521		7 mm	1
V1101522		8 mm	1
V1101527	80 cm	8 mm	1

ProVena

Open-porous external scaffolding prostheses for autologous veins
Offenporige Polyesterprothese zur Venenummantelung



ProVena's external scaffolding properties enhance patency of autologous veins. The easy to use applicator set saves additional procedure time.

Durch die Ummantelung der Vene mit ProVena wird die Offenheitsrate autologer Venen erhöht. Das Applikator-Set ist einfach in der Handhabung und spart Operationszeit.

ProVena is an open-porous prosthesis with "honeycomb-like" structure for intra-operative external scaffolding of autologous veins.

- unique product technology to stabilize autologous veins
- better patency-rates
- reduces arterial stress and intimal hyperplasia
- homogenous adaptation of ProVena to external surface of the vein
- improved vein lumen
- easy to use application set to save procedure time

ProVena ist eine großporige Gefäßprothese mit wabenartiger Struktur zur intraoperativen Ummantelung autologer Venen.

- Reduktion des arteriellen Stresses und der intimalen Hyperplasie
- Bessere Offenheitsrate
- Stabilisierung autologer Venen
- Gleichförmige Anlagerung der Vene an die ProVena Oberfläche
- Verbessertes Venenlumen
- Leichte Applikation spart Operationszeit

ProVena

Open-porous external scaffolding prostheses for autologous veins

Offenporige Polyesterprothese zur Venenummantelung



Provena
Provena

Cat. No. Art. Nr.	Length Länge	Diameter Durchmesser	Sales unit: pcs. Stück per PAK
110 5010	40 cm	4 mm	1
110 5011		5 mm	1
110 5012		6 mm	1
110 5013		7 mm	1
110 5014		8 mm	1
110 5016	80 cm	4 mm	1
110 5017		5 mm	1
110 5018		6 mm	1
110 5019		7 mm	1
110 5020		8 mm	1
110 5021		10 mm	1

ProVena applicator
ProVena Applikator

1105026	13 cm	5 mm	1
1105027		6 mm	1
1105028		7 mm	1
1105029		8 mm	1

ProVena cannula
ProVena Kanüle

1105030	14 cm	2 mm	1

ProVena application set
ProVena Applikations-Set

1105031			1

contains:

Applicator, length 13 cm, ø 5 mm
Applikator, Länge 13 cm, ø 5 mm

Applicator, length 13 cm, ø 6 mm
Applikator, Länge 13 cm, ø 6 mm

Applicator, length 13 cm, ø 7 mm
Applikator, Länge 13 cm, ø 7 mm

Applicator, length 13 cm, ø 8 mm
Applikator, Länge 13 cm, ø 8 mm

Cannula, length 14 cm, ø 2 mm
Kanüle, Länge 14 cm, ø 2 mm

Vascular Patch

Veno Patch



Microporous patch for vascular reconstructions

- high compliance
- no suture hole bleeding due to the high elasticity of the polymer fibres
- blood tight
- excellent handling properties
- good tissue incorporation

Mikroporöses Polyesterurethan-Patch

- Hohe Nahtausrissfestigkeit
- Keine Stichkanalblutungen
- Blutdicht
- Ausgezeichnete Modellierbarkeit durch hohe Materialflexibilität
- sehr gute Einheilung

Valve reconstruction with extraluminal valvuloplasty for venous insufficiency

- extremly thin (thickness 0,2 mm)
- excellent handling properties

Klappenrekonstruktion mittels extraluminaler Valvuloplastie bei Stamminsuffizienz der Vena saphena magna

- Extrem dünne Wandstärke von 0,2 mm
- Ausgezeichnete Verarbeitungsmöglichkeiten

Vascular Patch

Microporous, elastic polyesterurethane material for vascular patch procedures.

Mikroporöses, elastisches Polyesterurethan für vaskuläre Patch Plastiken



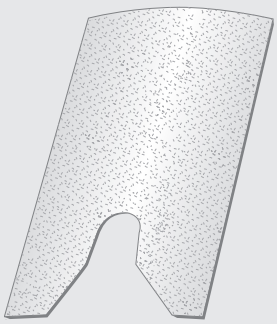
Vascular Patch

Cat. No. Art. Nr.	Size Größe	Sales unit: pcs. Stück per PAK
1107348	1 x 7 cm	1
1107283	1 x 7 cm	2
1107291	1 x 7 cm	5
1107330	2 x 9 cm	1
1107267	2 x 9 cm	2
1107275	2 x 9 cm	5
1107356	3 x 4 cm	1
1107321	3 x 4 cm	2
1107305	3 x 4 cm	5

Veno Patch

Microporous, elastic polyesterurethane for extraluminal valvuloplasty

Mikroporöses, elastisches Polyesterurethan zur extraluminalen Valvuloplastie



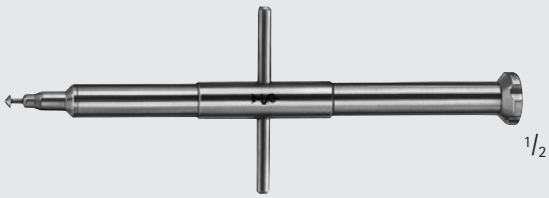
Veno Patch

1107500	2 x 4 cm	1

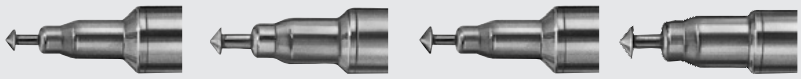
Vascular Instruments – Gefäßinstrumente

Vascular Instruments, Aorta Punches, Irrigating Cannulae, Vascular Dilators, Tunnelling, Vein Strippers

Gefäßinstrumente, Aortenstanzen, Spülkanülen, Gefäßdilatatoren, Tunnelierung, Venen-Stripper



1/2



FB201R	FB202R	FB194R	FB203R
Diam. / Ø 3 mm	3.5 mm	4 mm	4.5 mm



1/1

FB195R	FB204R	FB196R
Diam. / Ø 5 mm	5.5 mm	6 mm

FB194R–FB204R

Aorta punches

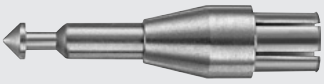
Aortenstanzen

140 mm, 5 1/2"



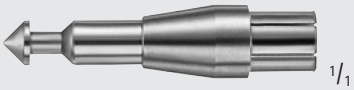
FB184R

Diam. / Ø 4 mm



FB185R

Diam. / Ø 5 mm



1/1

FB186R

Diam. / Ø 6 mm

FB184R–FB186R

VASCUCUT Punch heads

Sales unit:

PAK = Package of 5 pieces

VASCUCUT Stanzenköpfe

Bestelleinheit:

PAK = Packung à 5 Stück

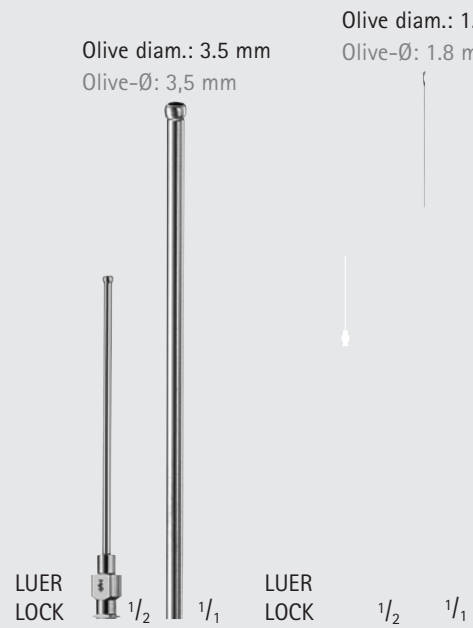


1/2

FB180R

VASCUCUT Handle only

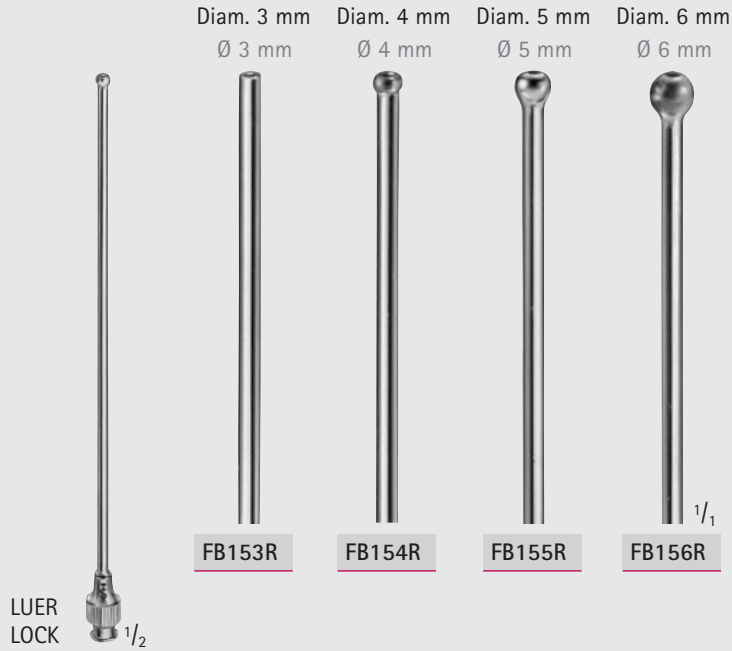
VASCUCUT Handgriff allein



MD610 MD611

	Outer diam. Außen-Ø	Gauge Gauge	Length Länge
MD610	2.4 mm	13	90 mm, 3 1/2"
MD611	1.2 mm	18	95 mm, 3 3/4"

Heparin needles
Heparin-Nadeln



FB153R FB154R FB155R FB156R

SCHMID

FB153R–FB156R

Vessel irrigating cannulae, malleable, silver plated
Gefäß-Spülkanülen, biegsam, versilbert
150 mm, 6"



GF793R

Suction handle with LUER LOCK
Sauggriff mit LUER Ansatz
155 mm, 6"



BLAKE

EB220R

Embolus grasping forceps
Embolusfasszange
205 mm, 8"





	FB160R	FB161R	FB162R	FB163R	FB164R	FB165R
Diam. / Ø	0.5 mm	1.0 mm	1.5 mm	2.0 mm	2.5 mm	3.0 mm
	FB166R	FB167R	FB168R	FB169R	FB170R	FB172R
Diam. / Ø	3.5 mm	4.0 mm	4.5 mm	5.0 mm	7.0 mm	9.0 mm

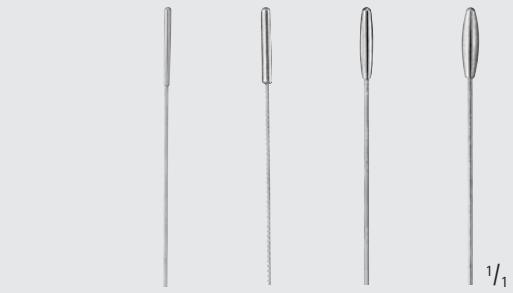
DE BAKEY

FB160R–FB172R

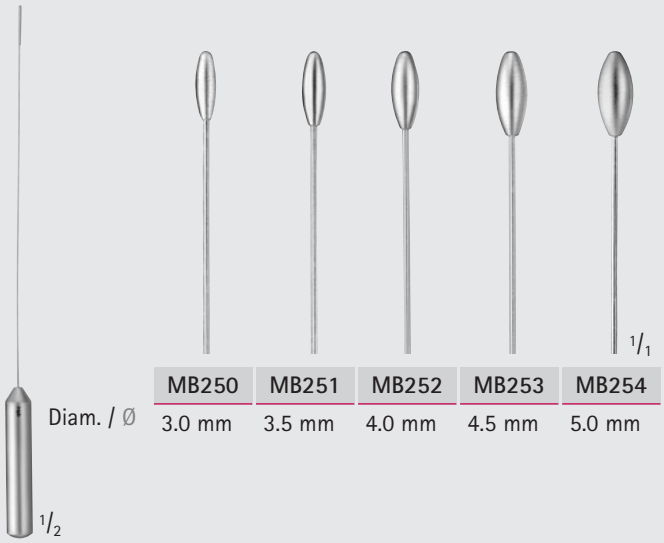
Vascular dilators, malleable

Gefäßdilatatoren, biegsam

190 mm, 7 1/2"



	MB246	MB247	MB248	MB249
Diam. / Ø	1.0 mm	1.5 mm	2.0 mm	2.5 mm



	MB250	MB251	MB252	MB253	MB254
Diam. / Ø	3.0 mm	3.5 mm	4.0 mm	4.5 mm	5.0 mm

GARRETT

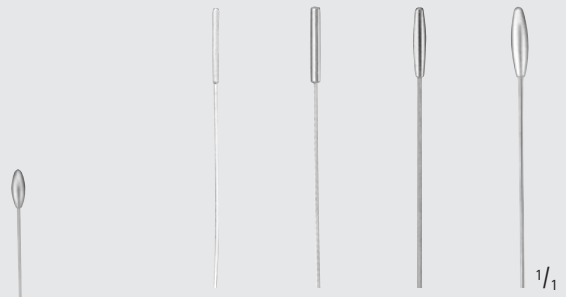
MB246 - MB254

Vascular dilators, malleable
Gefäßdilatatoren, biegsam
140 mm, 5 1/2"

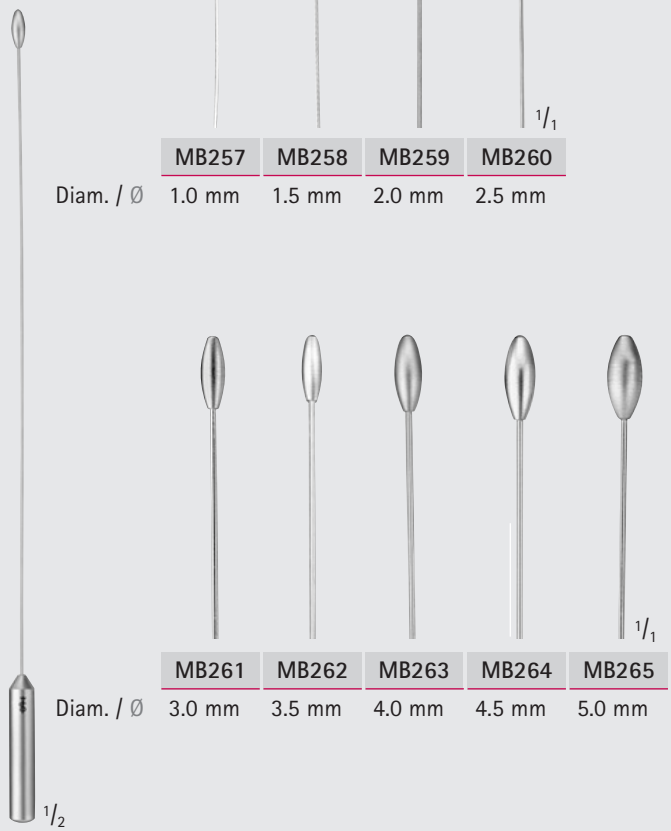
GARRETT

MB245

Set complete, consisting of:
MB246-MB254, 1 dilator of each
Set komplett, bestehend aus:
MB246-MB254, jeweils 1 Dilatator



	MB257	MB258	MB259	MB260
Diam. / Ø	1.0 mm	1.5 mm	2.0 mm	2.5 mm



	MB261	MB262	MB263	MB264	MB265
Diam. / Ø	3.0 mm	3.5 mm	4.0 mm	4.5 mm	5.0 mm

GARRETT

MB257 - MB265

Vascular dilators, malleable
Gefäßdilatatoren, biegsam
215 mm, 8 1/2"

GARRETT

MB256

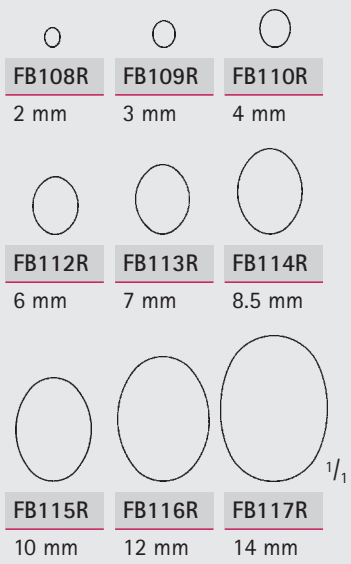
Set complete, consisting of:
MB257-MB265, 1 dilator of each
Set komplett, bestehend aus:
MB257-MB265, jeweils 1 Dilatator

MILLIMETERS

Vascular Instruments – Gefäßinstrumente

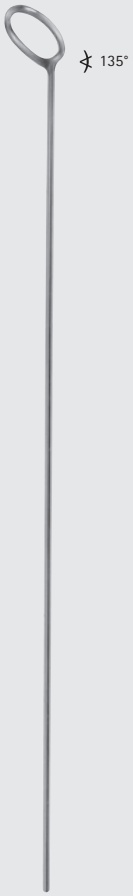
Vascular Instruments, Aorta Punches, Irrigating Cannulae, Vascular Dilators, Tunnelling, Vein Strippers

Gefäßinstrumente, Aortenstanzen, Spülkanülen, Gefäßdilatatoren, Tunnelierung, Venen-Stripper



FB108R 2 mm
FB109R 3 mm
FB110R 4 mm
FB112R 6 mm
FB113R 7 mm
FB114R 8.5 mm
FB115R 10 mm
FB116R 12 mm
FB117R 14 mm

1/1



FB108R–FB117R
Endarterectomy strippers
Endarterektomiestripper
550 mm, 22"



1/2

FB119R
Handle for FB108R–FB117R
Griff für FB108R–FB117R
110 mm, 4 3/8"



1/2

RUMEL–BELMONT
FB651R
325 mm, 13"
Diam. / Ø 4 mm



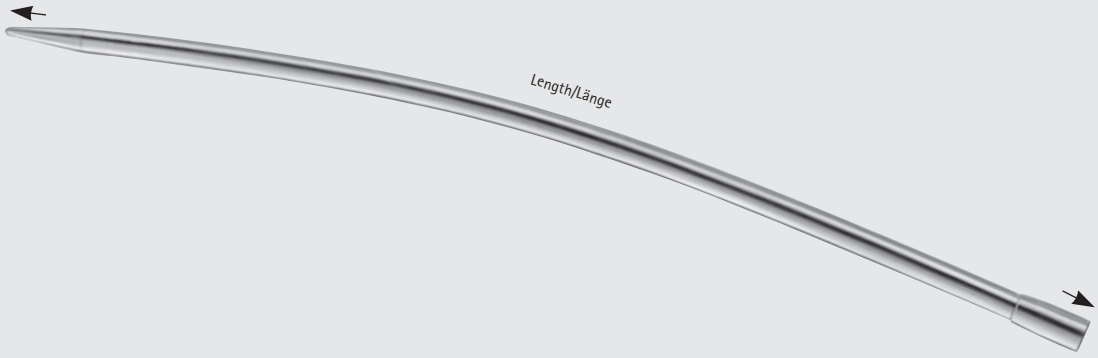
1/1 1/2

FB653R
Guide only
Mandrin allein



1/1 1/2

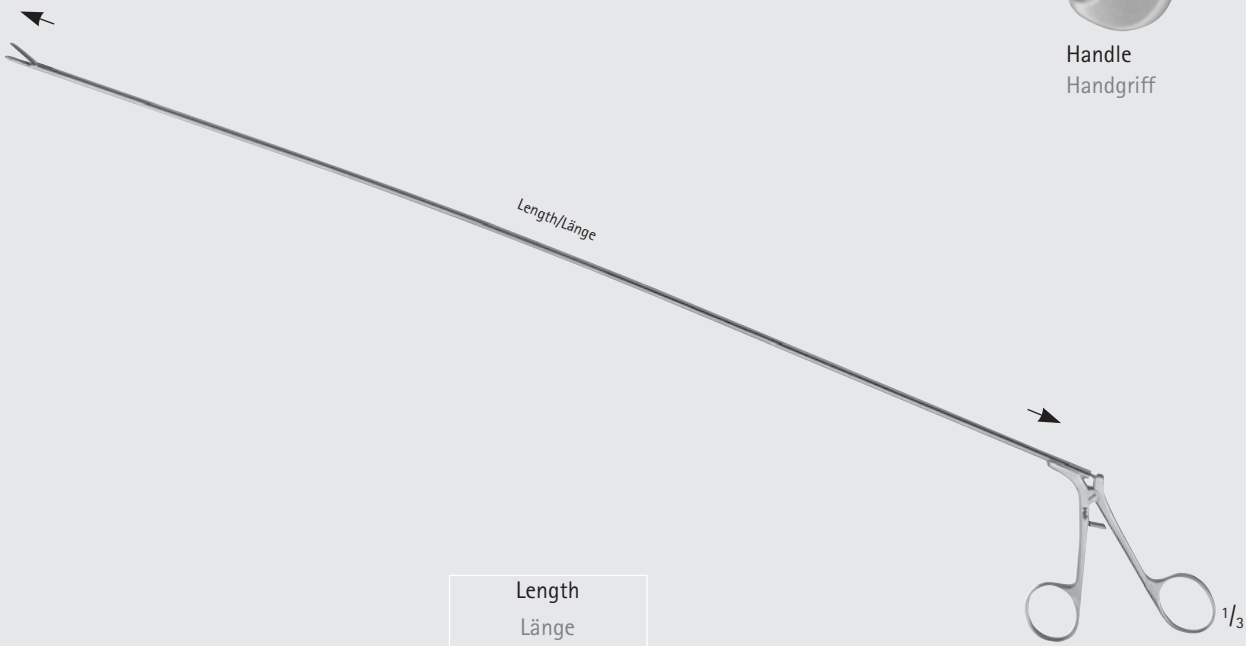
FB654R
Guide only
Mandrin allein



Tunneling tubes with conical tip
Tunnelierrohre mit Konus



Handle
Handgriff



Forceps
Durchziehzange

JENKNER	Diam. Ø	Length Länge 400 mm 16"	500 mm 20"
Tunneling tubes with conical tip Tunnelierrohre mit Konus	12 mm	FC004R	FC005R
	14 mm	FC014R	FC015R
	17 mm		FC025R
Handle Handgriff		FC030	
Forceps Durchziehzange		FC034R	FC035R

Information about the operative procedure see leaflet C06011
Informationen über das operative Vorgehen siehe Prospekt C06011

MILLIMETERS

Vascular Instruments – Gefäßinstrumente

Vascular Instruments, Aorta Punches, Irrigating Cannulae, Vascular Dilators, Tunnelling, Vein Strippers

Gefäßinstrumente, Aortenstanzen, Spülkanülen, Gefäßdilatatoren, Tunnelierung, Venen-Stripper

- The slight curvature of the introducer forceps permits handling during tunneling. Here the prosthesis can be drawn in by applying the introducer forceps directly to the prosthesis (alloplastic prosthesis) or can be drawn in by means of the bulldog clamp (autologous/homologous prosthesis). Thanks to the interlocking fit, the bulldog clamp rests non-displaceable and securely in the jaw of the introducer forceps.

- Die leichte Krümmung der Zange ermöglicht ein Handling beim Tunnelieren. Zum Durchziehen der Prothese kann die Zange entweder direkt angelegt werden (alloplastische Prothesen) oder mittels der Bulldogklemme (autologe/homologe Prothesen). Die Bulldogklemme sitzt dank Formschluss unverrückbar und sicher im Maul der Einzugszange.



ALLENBERG

FC048R

curved

gebogen

540 mm, 21 1/2"



FC049R

Bulldog clamp

Bulldog-Klemme

40 mm, 1 1/2"



NABATOFF

FB030R

Vein stripper set, consisting of:

FB031R	Metal case
FB032R	Flexible cable, 36" long
FB033	Flexible plastic probe tip
FB034R	Metal probe tip
FB035R	Metal olive, diam. 6 mm
FB036R	Metal olive, diam. 9 mm
FB037R	Metal olive, diam. 12 mm
FB038R	Metal olive, diam. 15 mm
FB040R	Handle for flexible cable

Venenstripper-Besteck, bestehend aus:

FB031R	Metalletui
FB032R	Zugseil, 900 mm lang
FB033	Kunststoff-Sondenspitze
FB034R	Metall-Sondenspitze
FB035R	Metallolive, Ø 6 mm
FB036R	Metallolive, Ø 9 mm
FB037R	Metallolive, Ø 12 mm
FB038R	Metallolive, Ø 15 mm
FB040R	Griff für Zugseil

Spare parts for FB030R

Ersatzteile für FB030R



NABATOFF

FB033

Flexible plastic probe tip

Kunststoff-Sondenspitze



1/1

NABATOFF

	Diam. Ø
FB034R	3 mm

Probe tip, metal

Metall-Sondenspitze

NABATOFF

	Diam. Ø
FB035R	6 mm
FB036R	9 mm
FB037R	12 mm
FB038R	15 mm

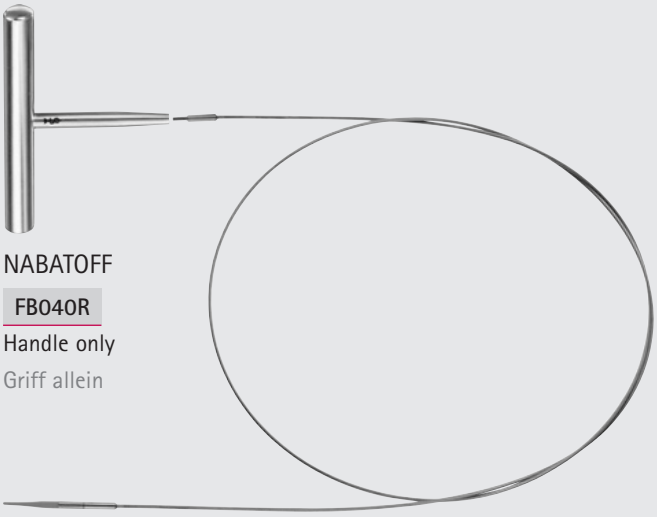
Olives only

Oliven allein



FB035R **FB036R** **FB037R** **FB038R**

1/1



NABATOFF

FB040R

Handle only

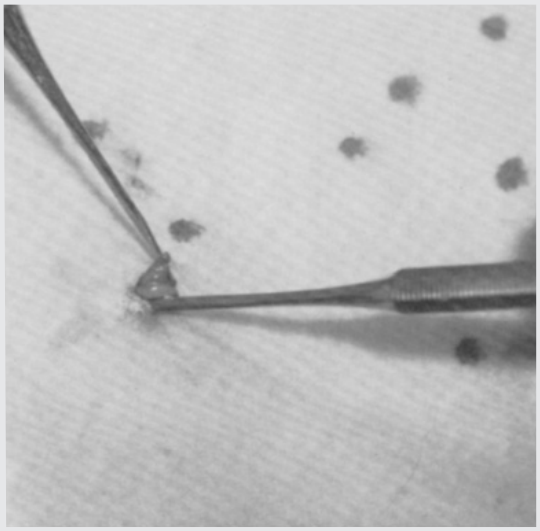
Griff allein

FB032R

Flexible cable

Zugseil

900 mm, 36"





VARADY

FB050R

Mini vein stripper set, consisting of:

FB031R Metal case
FB051R Flexible cable, 17 $^1/_2$" long, polyethylene coating
FB053R Metal olive, diam. 3 mm
FB054R Metal olive, diam. 4 mm
FB055R Metal olive, diam. 5 mm

Mini-Venenstripper-Set, bestehend aus:

FB031R Metalletui
FB051R Zugseil, 450 mm lang, kunststoffummantelt
FB053R Metallolive, Ø 3 mm
FB054R Metallolive, Ø 4 mm
FB055R Metallolive, Ø 5 mm

Spare parts for FB050R

Ersatzteile für FB050R

VARADY

	Diam. Ø
FB053R	3 mm
FB054R	4 mm
FB055R	5 mm

Olives only

Oliven allein



FB053R



FB054R



$^1/_1$

FB055R



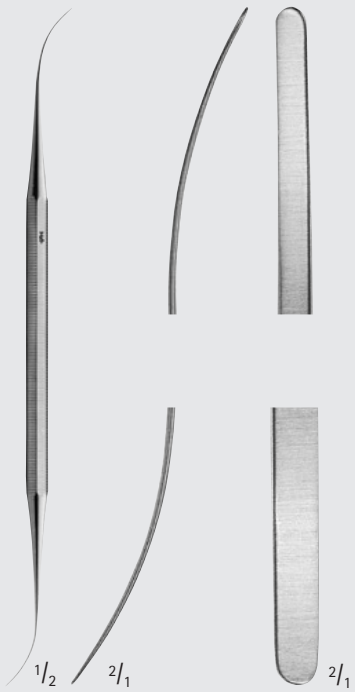
VARADY

FB051R

Cable, flexible, polyethylene coating

Zugseil, kunststoffummantelt

450 mm, 17 $^1/_2$"



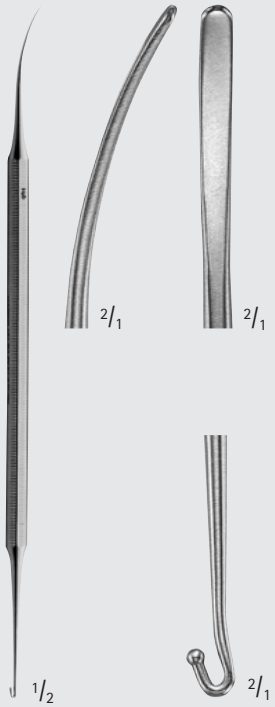
VARADY

FB120R

Phlebodissector

Phlebodissektor

180 mm, 7"



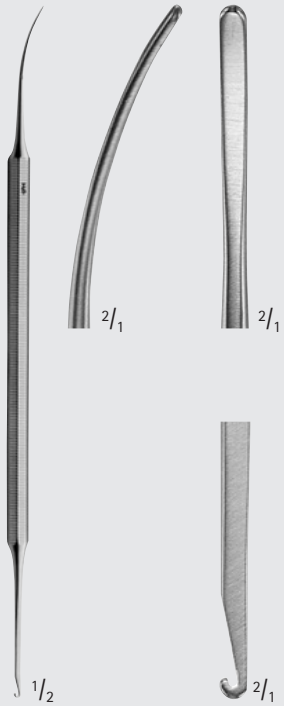
VARADY

FB121R

Phlebextractor

Phlebextraktor

180 mm, 7"



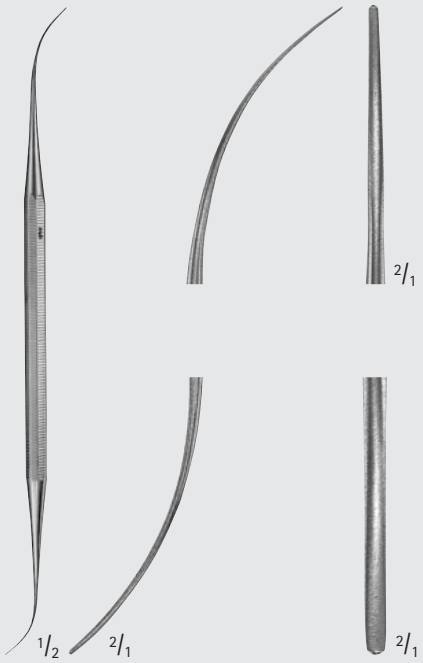
VARADY

FB122R

Phlebextractor

Phlebextraktor

180 mm, 7"



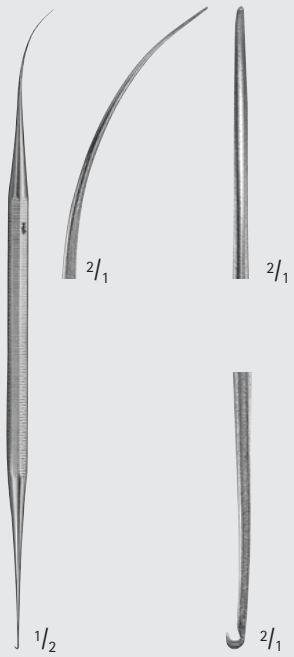
VARADY

FB124R

Micro spatula, double ended

Mikro-Doppelspatel

175 mm, 7"



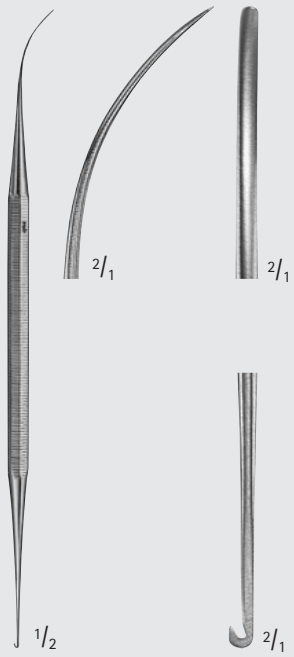
VARADY

FB125R

Micro phlebextractor

Mikro-Phlebextraktor

170 mm, 6 3/4"



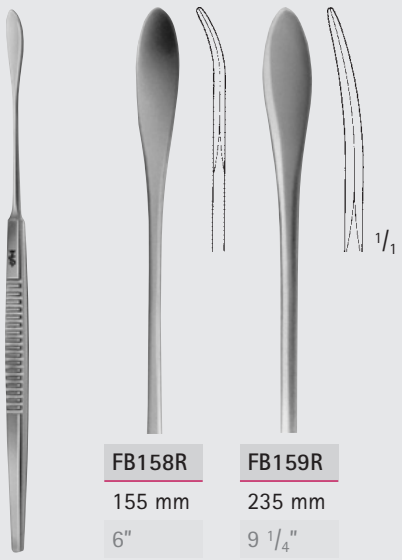
VARADY

FB126R

Mini phlebextractor

Mini-Phlebextraktor

170 mm, 6 3/4"



FB158R
155 mm
6"

FB159R
235 mm
9 1/4"

SCHMID

FB158R–FB159R

blunt

stumpf



DAVIS

FF300R

245 mm, 9 3/4"



FF301R

FF302R

TÖNNIS

FF301R–FF302R

240 mm, 9 1/2"



FB150R	185 mm	7 1/4"
FB151R	215 mm	8 1/2"

blunt
stumpf



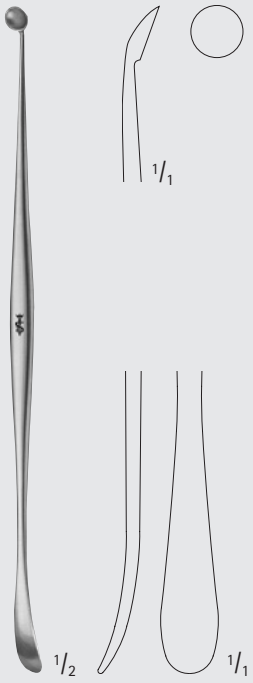
FD333R
230 mm, 9"



HALLE
OL160R
blunt
stumpf
180 mm, 7"



FREER
OL165R
blunt/sharp
stumpf/scharf
185 mm, 7 1/4"

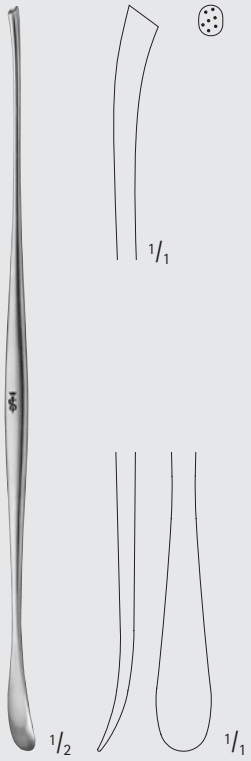


PENFIELD

FF291R

Fig. 1

175 mm, 7"

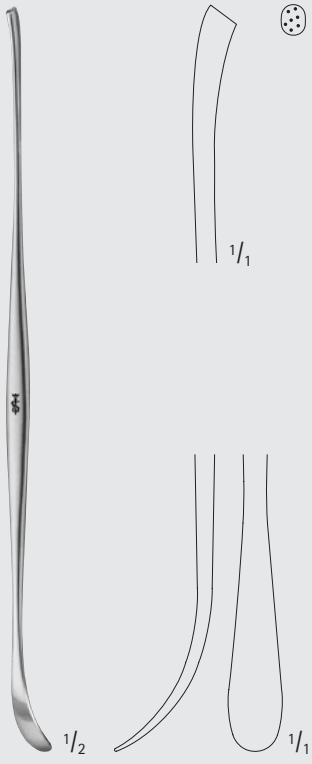


PENFIELD

FF292R

Fig. 2

195 mm, 7 3/4"



PENFIELD

FF293R

Fig. 3

195 mm, 7 3/4"

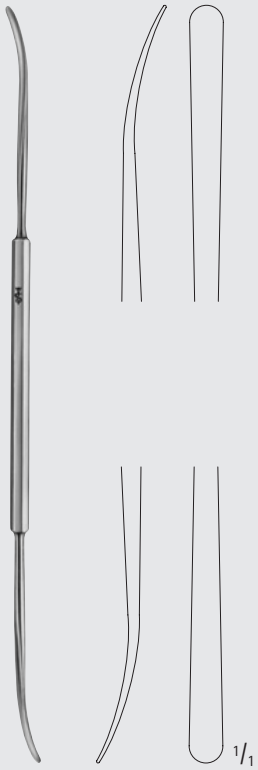


PENFIELD

FF294R

Fig. 4

205 mm, 8"



SWEDISH

FF347R 180 mm, 7"
light pattern
leichtes Modell

FF348R 200 mm, 8"
heavy pattern
kräftiges Modell



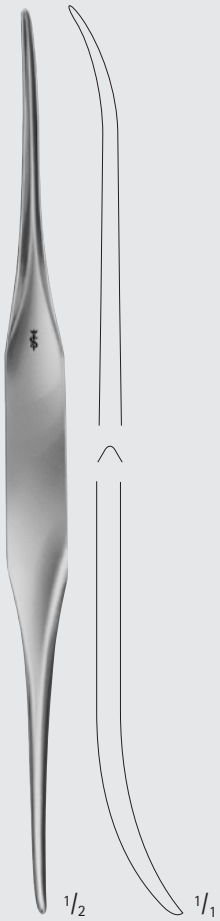
PENNYBACKER

FF349R
Probe dissector
Sonde und Dissektor
230 mm, 9"



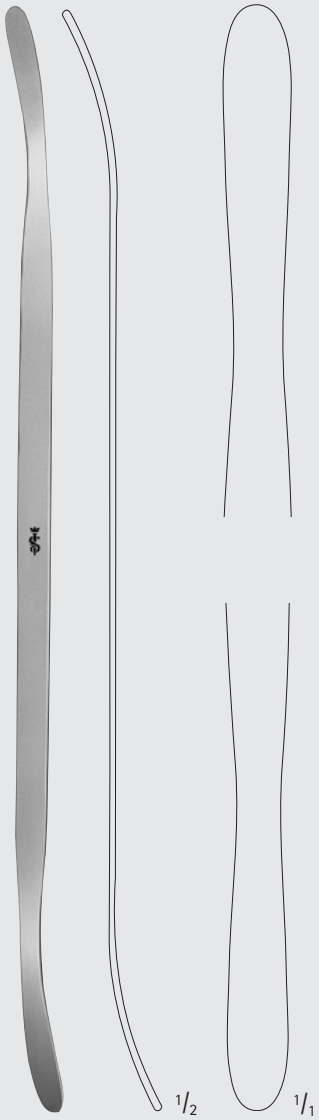
O'CONNELL

FF730R
220 mm, 8 3/4"



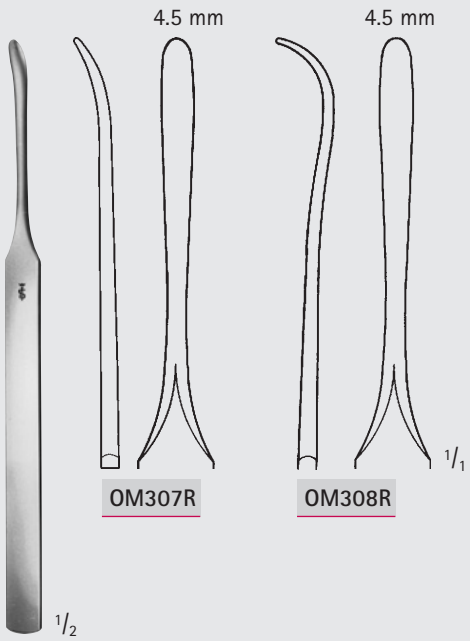
TÖNNIS

FF308R
Grooved director
Hohlsonde
240 mm, 9 1/2"



PENFIELD

FF295R
Fig. 5
slightly curved
leicht gebogen
290 mm, 11 1/2"



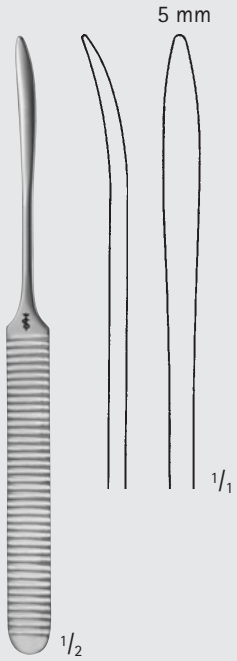
OM307R

OM308R

KÖNIG

OM307R–OM308R

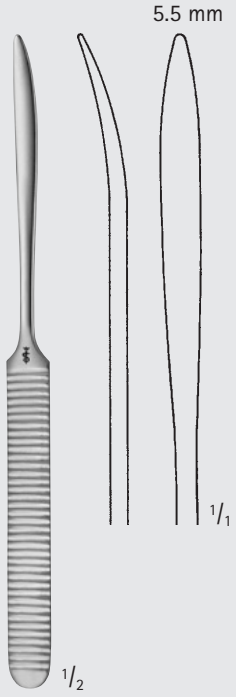
155 mm, 6"



WILLIGER

FK120R

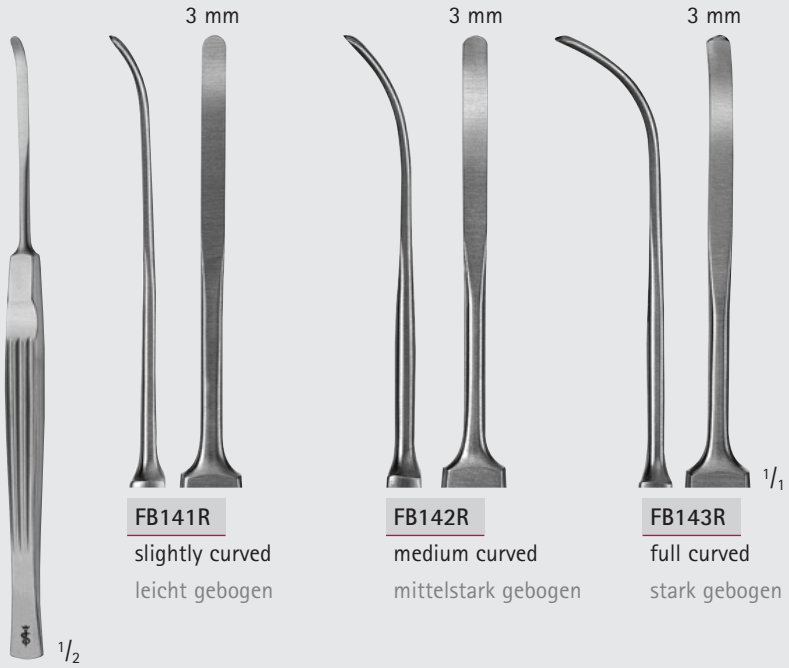
165 mm, 6 1/2"



WILLIGER

FK121R

170 mm, 6 3/4"



FB141R
slightly curved
leicht gebogen

FB142R
medium curved
mittelstark gebogen

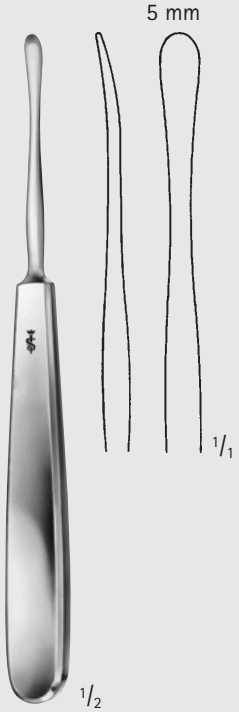
FB143R
full curved
stark gebogen

LEMMON

FB141R–FB143R

Intima dissectors
Intima Dissektoren

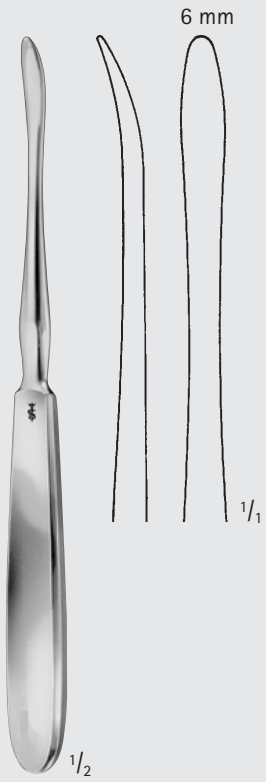
165 mm, 6 1/2"



SEBILEAU

FK124R

175 mm, 7"



QUERVAIN

FK133R

195 mm, 7 3/4"

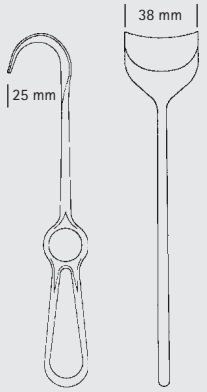
Vascular Instruments – Gefäßinstrumente

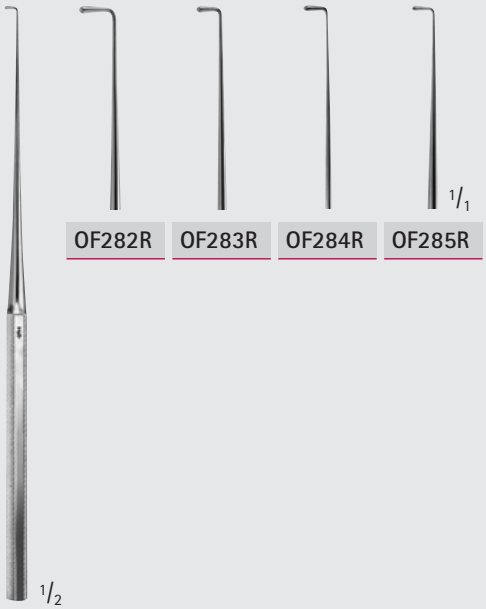
Nerve and Vessel Hooks

Nerv- und Gefäßhäkchen

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite



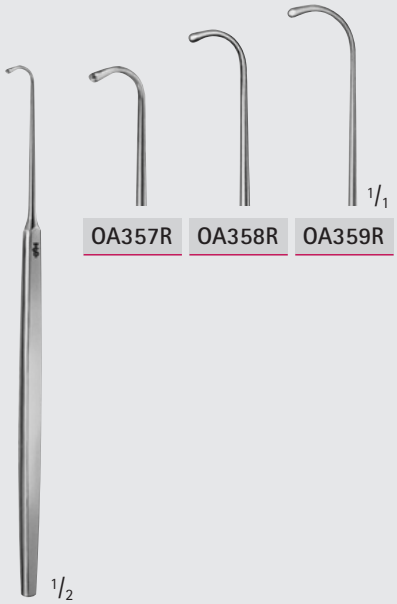


OF282R OF283R OF284R OF285R

WAGENER

OF282R-OF285R

150 mm, 6"



OA357R OA358R OA359R

GRAEFE

OA357R-OA359R

140 mm, 5 1/2"



ST. BARTS

OF288R

180 mm, 7"



BROM

BT075R

Vein hook

Venenhäkchen

170 mm, 6 3/4"



CRILE

BT080R

200 mm, 8"



BT082R BT083R

CUSHING

BT082R–BT083R

190 mm, 7 1/2"

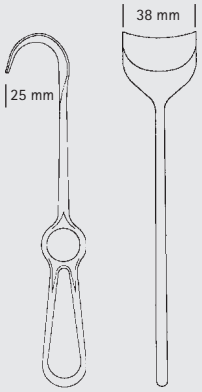
Vascular Instruments – Gefäßinstrumente

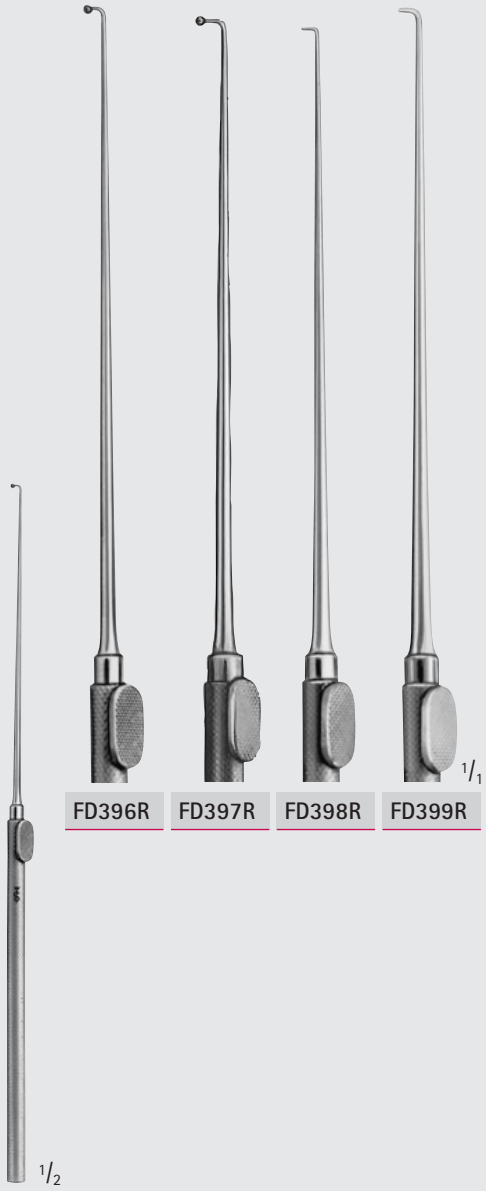
Nerve and Vessel Hooks

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1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





1/1

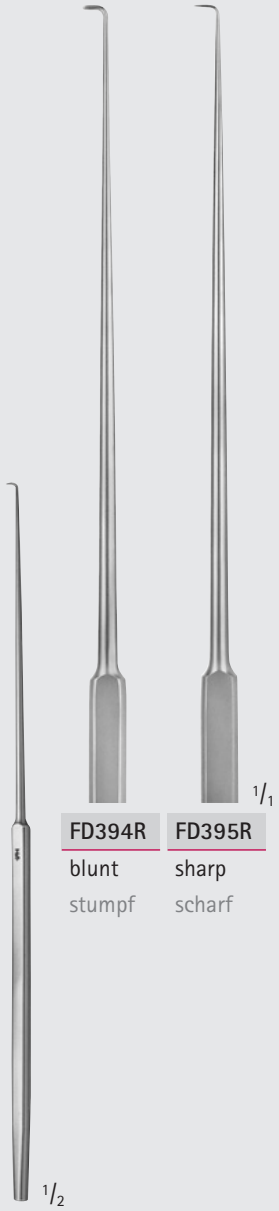
FD396R FD397R FD398R FD399R

1/2

KRAYENBÜHL

FD396R–FD399R

185 mm, 7 1/4"



1/1

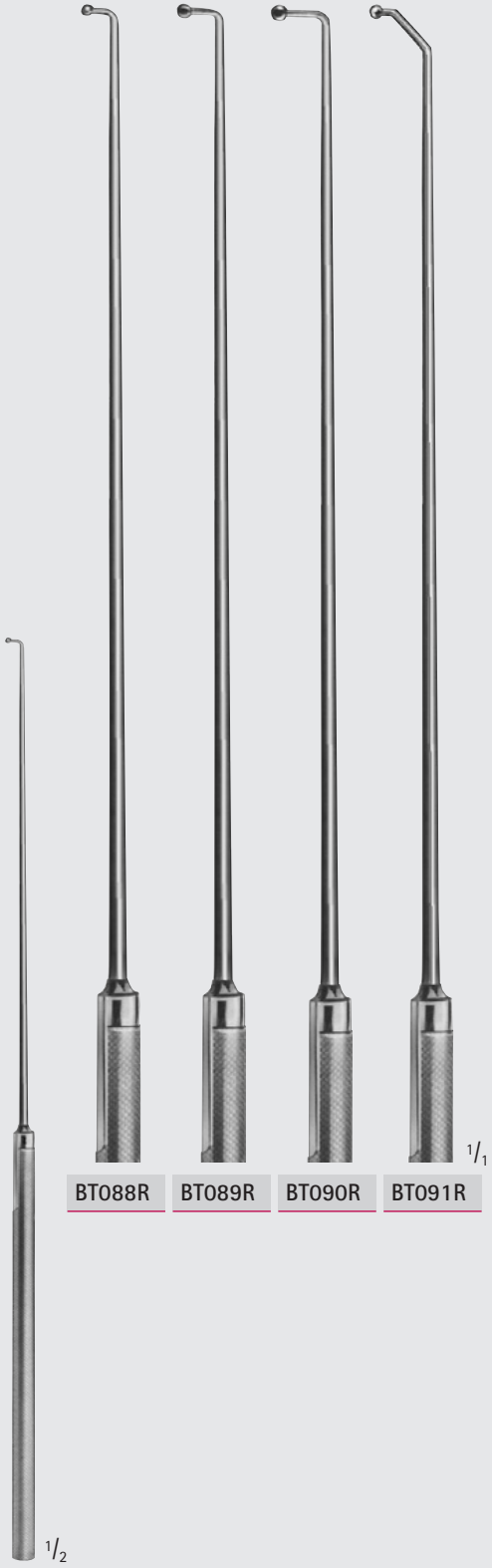
FD394R	FD395R
blunt	sharp
stumpf	scharf

1/2

ADSON

FD394R–FD395R

190 mm, 7 1/2"



BT088R | BT089R | BT090R | BT091R

CASPAR

BT088R–BT091R

Exploration hooks, probe-ended

Explorationshäkchen, geknöpft

245 mm, 9 3/4"



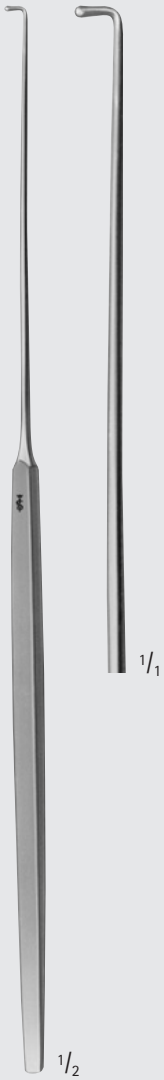
CASPAR

BT081R

Exploration hook, probe-ended

Explorationshäkchen, geknöpft

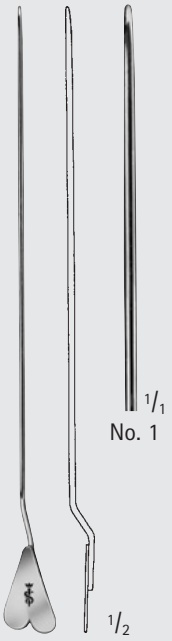
215 mm, 8 1/2"



CUSHING

BT084R

280 mm, 11"



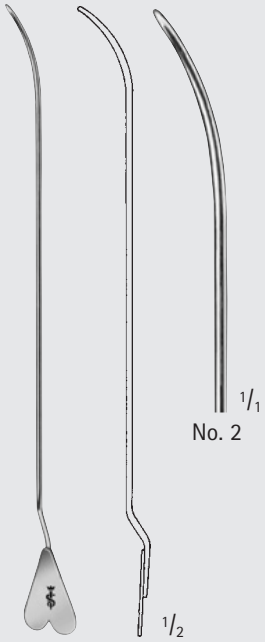
LOCKHART-MUMMERY

BN021R

Fistula probe, straight

Fistelsonde, gerade

165 mm, 6 1/2"



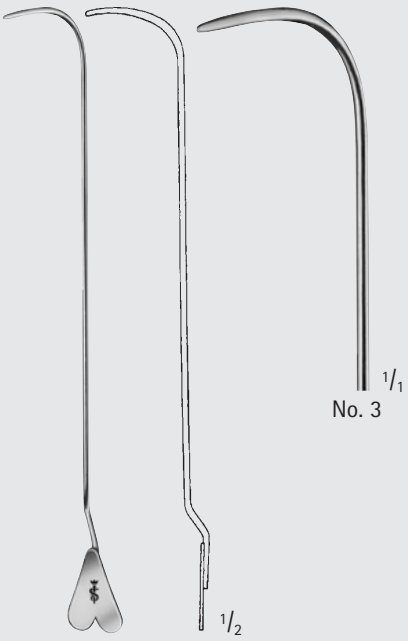
LOCKHART-MUMMERY

BN022R

Fistula probe, 45° curved

Fistelsonde, 45° gebogen

165 mm, 6 1/2"



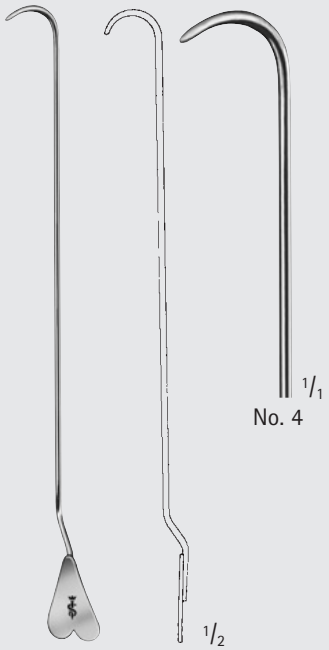
LOCKHART-MUMMERY

BN023R

Fistula probe, 90° curved

Fistelsonde, 90° gebogen

165 mm, 6 1/2"



LOCKHART-MUMMERY

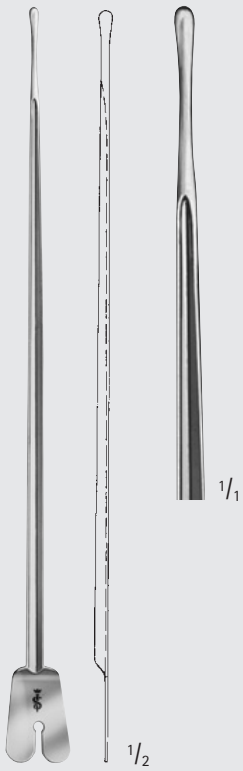
BN024R

Fistula probe, retrograde curved

Fistelsonde, retrograd gebogen

165 mm, 6 1/2"

Diam. of tip: 3.5 mm
Knopf-Ø: 3,5 mm



BRODIE

BN020R

Director with probe

Hohlsonde mit Knopf

200 mm, 8"



1/2

Diam. of tip
Knopf-Ø

BN034R	2,5 mm	145 mm, 5 3/4"
BN036R	2,5 mm	160 mm, 6 1/4"
BN040R	3,0 mm	200 mm, 8"

Probes with eye
Öhrsonden



1/2

MB603R
125 mm, 5"



Diam. of tip: 1.5 mm
Knopf-Ø: 1,5 mm

1/2

BN054R
Myrtle leaf probe
Myrtenblattsonde
145 mm, 5 3/4"



Diam. of tip: 2.0 mm
Knopf-Ø: 2,0 mm

1/2

BN063R	130 mm, 5 1/8"
BN064R	145 mm, 5 3/4"
BN066R	160 mm, 6 1/4"
BN068R	180 mm, 7"
BN070R	200 mm, 8"

Myrtle leaf probes
Myrtenblattsonden



Diam. of tip: 3.5 mm
Knopf-Ø: 3,5 mm

1/2

BN095	250 mm, 10"
BN096	300 mm, 12"

Double ended probes, tin, malleable
Doppelknopfsonden, Zinn, biegsam



Diam. of tip Knopf-Ø			Length Länge
1,0 mm	1,5 mm	2,0 mm	
	BN113R		130 mm, 5 1/8"
BN104R	BN114R	BN134R	145 mm, 5 3/4
	BN116R	BN136R	160 mm, 6 1/4"
	BN118R	BN138R	180 mm, 7"
	BN120R	BN140R	200 mm, 8"
	BN125R		250 mm, 10"
		BN150R	300 mm, 12"

Probes
Knopfsonden



Diam. of tip: 1.2 mm
Knopf-Ø: 1,2 mm

1/2

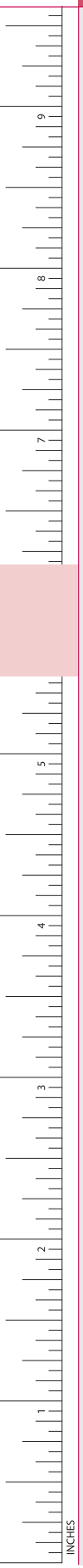
BN110
Probe
Knopfsonde
150 mm, 6"



Diam. of tip: 3.0 mm
Knopf-Ø: 3,0 mm

1/2

BN090R
Double ended probe, malleable, with hole
Doppelknopfsonde, biegsam, mit Loch
190 mm, 7 1/2"


INCHES
1
2
3
4
5
7
8
9

SUSI



SUSI®
Single Use Surgical Instruments

Pack per case – Procedure Sets
Eingriffsgerechte chirurgische Behandlungs-Sets



„All inclusive":
- high quality single use instrumentation
- all required consumables

At your finger tips! Ready for use when required
- instantly available
- always complete
- always sterile (sterilised in acc. to validated sterilisation process)
- 100% reliable
- procedure related cost transparency
- no additional service cost (e.g. repair cost, etc..)
- always up-to-date

„All inclusive":
- hochwertiges Einmalinstrumentarium
- benötigtes Verbrauchsmaterial

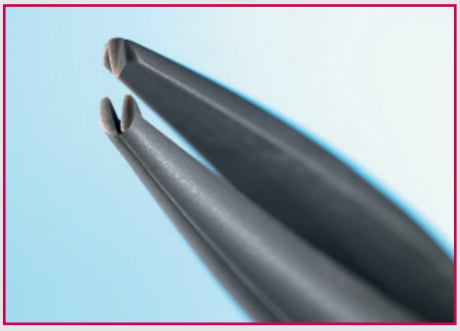
Mit einem Griff
- immer schnell einsetzbar
- immer komplett verfügbar
- immer steril (nach einem validierten Aufbereitungsverfahren)
- immer zu 100% funktionsfähig
- immer mit eindeutiger und fallbezogener Kostentransparenz
- immer ohne Nebenkosten (z.B. Reparatur)
- immer auf dem neuesten Stand



For further details see
brochure No. **C82002**

Weitere Informationen finden
Sie in unserem Prospekt **C82001**





SUSI (Single Use Surgical Instruments) Instrumentation is a completely unique range of single use surgical instruments. Utilising proven established design patterns and the use of light high performance polymers for the production provides you with high precision instruments with excellent mechanical properties. The material used allows simple, secure and environmentally friendly incineration utilising existing disposal systems in hospitals.

SUSI instruments are also available individually sterile packed in a dispenser box.

"Pack per case" procedure sets have proven their suitability on hospital wards, in intensive care units, A&E Departments, Outpatient Departments, Nursing homes, GP surgeries & practices and can also be used by ambulance services. For all these areas of application, SUSI procedure sets not only offer medical advantages but also plenty of saving potentials. Should you have specific needs and requirements (i.e custom made sets or economic analysis) please do not hesitate to contact us.

SUSI (Single Use Surgical Instruments) ist eine völlig einzigartige Linie chirurgischer Einmalinstrumente. Hergestellt aus einem leichten Hochleistungspolymere und unter Beibehaltung des vertrauten und bewährten Designs, werden höchste Präzision sowie ausgezeichnete mechanische Eigenschaften erzielt. Der eingesetzte Werkstoff ermöglicht eine sichere, einfache und umweltfreundliche Entsorgung durch Verbrennung im Rahmen des normalen Entsorgungssystems der Klinik.

SUSI Instrumente sind selbstverständlich auch einzeln steril verpackt im Spenderkarton erhältlich.

„Pack per Case" hat sich besonders für den Einsatz auf den Stationen in den Bereichen Intensiv- und Unfallmedizin, in der Ambulanz sowie Pflegediensten, im niedergelassenen Bereich sowie im externen Rettungswesen bewährt. Dabei bietet das SUSI Konzept eine eindeutige und fallbezogene Kostentransparenz und stellt somit eine sowohl medizinisch wie auch wirtschaftlich optimale Lösung dar. Gerne sprechen wir auch über Ihre speziellen Wünsche und Vorstellungen.

SUSI® – Single Use Surgical Instruments

Procedure Sets

Behandlungs-Sets

5063010	SUSI Cardiac Pacemaker Set



Contents	pieces
Cover drape 236 x 300 cm, with slit 9 x 108 cm	1
Anesthesia drape 152 x 250 cm	1
Cover drape, self-adhesive, 75 x 90 cm	2
C-Bend Cover 70 + 43 x 200 cm	1
Tray, 33 x 30 x 6 cm, white	1
Bowl round, 250 ml, light blue	1
Gauze swabs, round, 40 x 40 cm, X-ray marker	5
Gauze compress, 12-fold (ply), 10 x 10 cm, X-ray marker	20
Disposable scalpel size 22	1
Omnifix injection syringe, Luer, Lock, 20 ml	1
Sterican canulla size 1, G 20 x 1 1/2, Ø 0.90 mm, 40 mm, yellow	1
Sucker bag 33 x 41 cm, 2 chambers, self-adhesive	1
Disposable electrode handle	1
SUSI Mosquito forceps, curved, 125 mm	2
SUSI dissecting scissors Metzenbaum, curved, 180 mm	1
SUSI haemostatic forceps Birkett, curved, 185 mm	2
SUSI needleholder Crile Wood, straight, 200 mm	1
SUSI tissue forceps Waughs, 200 mm	1
SUSI sponge forceps, curved, 265 mm	1
SUSI dissecting forceps Cushing, 200 mm	1
SUSI self-retaining retractor Weitlaner, 3 x 4 teeth, 130 mm	1
SUSI retractor Roux, 170 mm	1
Bowl, round, 120 ml, transparent	2
Askina Soft 9 x 10 cm	1
Suture Monosyn violet 3/0 (2), 70 cm, HR26	1
Suture Monosyn undyed 4/0 (1.5), 70 cm, DSMP24	1
Suture Silkam black 0 (3.5), 75 cm, 1 x HR26	1
Operation gown, 130 cm	2
Table bag, 75 x 141 cm	1
Table cover, 137 x 190 cm	1

Order unit: PAK = Pack of 4 sets

5063010	SUSI Herzschrittmacher-Set

Inhalt	Stück
Schlitztuch 236 x 300cm, Schlitz 9 x 108 cm	1
Anästhesietuch 152 x 250 cm	1
Abdecktuch, selbstklebend, 75 x 90 cm	2
C-Bogenhaube 70 + 43 x 200 cm	1
Tray, rechteckig, 6000 ml, weiß, 33 x 30 x 6 cm	1
Schale rund, 250 ml, hellblau	1
Tupfer, extragroß, Rundform 40 x 40 cm, RK	5
Kompressen, 12-fach, 10 x10 cm, RK	20
Cutfix Einmalskalpell, Fig. 22	1
Omnifix-Spritze, Luer, Lock, 20 ml	1
Sterican Kanüle Größe 1, G20x1 1/2, Ø 0,90 mm, 40 mm, gelb	1
Saugertasche 33 x 41cm, PE, 2 Kammer, selbstklebend	1
Elektrodenhalter mit Fingertaster und Messerelektrode	1
SUSI Mosquitoklemme, gebogen, 125 mm	2
SUSI Prärarierschere Metzenbaum, gebogen, 180 mm	1
SUSI Arterienklemme Birkett, gebogen, 185 mm	2
SUSI Nadelhalter Crile Wood, gerade, 200 mm	1
SUSI chirurgische Pinzette Waughs, 200 mm	1
SUSI Kornzange, gebogen, 265 mm	1
SUSI anatomische Pinzette Cushing, 200 mm	1
SUSI Wundspreizer Weitlaner, 3 x 4 Zähne, halbscharf	1
SUSI Wundhaken Roux, 170 mm	1
Schale, rund, 120 ml, transparent	2
Askina Soft 9 x 10 cm	1
Monosyn Violett 3/0 (2), 70 cm, HR26	1
Monosyn Ungefärbt 4/0 (1,5), 70CM, DSMP24 (M)	1
Silkam Schwarz 0 (3,5), 75 cm, 1 x HR26	1
OP Kittel, Standard, 130 cm	2
Instrumentiertischbezug, 75 x 141cm	1
Tischabdeckung, 137 x 190cm	1

Bestelleinheit: PAK = Packung à 4 Sets

5062010 SUSI Thorax Drainage Set



Contents	pieces
Plastic tray, 38 x 28 x 3 cm	1
Drape, 75 x 90 cm	1
Surgical gloves, size 7.5, powder free	1
Gauze compress, 10 x 10 cm, 12-fold (ply)	8
Slit compress, 10 x 10 cm, 12-fold (ply)	2
Bowl, round, 250 ml	1
SUSI sponge forceps, curved, 265 mm	1
Drape, 75 x 100 cm, self adhesive	2
Injection syringe, Luer, 10 ml	1
Sterican cannula size 1, G 20 x 1 1/2, Ø 0.90 mm, 40 mm, yellow	1
Sterican cannula, LL, G 18 x 1 1/2, Ø 1.20 mm, 40 mm, pink	1
Sterican cannula, LL, G 20 x 2 3/4, Ø 0.90 mm, 70 mm, yellow	1
Sterican Kanüle size 12, G 22 x 1 1/4, Ø 0.70 mm, 30 mm, black	1
Disposable scalpel size 11	1
SUSI tissue forceps, sharp, 145 mm	1
SUSI Metzenbaum dissecting scissors, 180 mm	1
SUSI needle holder Mayo-Hegar, 150 mm	1
SUSI tubing clamp, 135 mm	1
Suture Synthofil green 0 (3.5), 75 cm, 1 x DS 30	1
Suture Dafilon blue 3/0 (2), 75 cm, 1 x DS 19	1
Askina fix fixation plaster, 15 x 20 cm	2

Order unit: PAK = Pack of 5 sets

5062010 SUSI Thorax Drainage Set



Inhalt	Stück
Kunststoff Tray, 38 x 28 x 3 cm	1
Abdecktuch, 75 x 90 cm	1
OP-Handschuhe, Gr. 7,5 o. Puder	1
Mullkompresse, 10 x 10 cm, 12-fach	8
Schlitzkompresse, 10 x 10 cm, 12-fach	2
Schale, rund, 250 ml	1
SUSI Tupferzange, gebogen, 265 mm	1
Abdecktuch, 75 x 100 cm, selbst klebend	2
Injektions-Spritze, Luer, 10 ml	1
Sterican Kanüle Größe 1, G 20 x 1 1/2, Ø 0,90 mm, 40 mm, gelb	1
Sterican Kanüle, LL, G 18 x 1 1/2, Ø 1,20 mm, 40 mm, rosa	1
Sterican Kanüle, LL, G 20 x 2 3/4, Ø 0,90 mm, 70 mm, gelb	1
Sterican Kanüle Größe 12, G 22 x 1 1/4, Ø 0,70 mm, 30 mm, schwarz	1
Einmalskalpell Fig. 11	1
SUSI chirurgische Pinzette, scharf, 145 mm	1
SUSI Schere n. Metzenbaum, gebogen, 180 mm	1
SUSI Nadelhalter n. Mayo-Hegar, 150 mm	1
SUSI Schlauchklemme, 135 mm	1
Synthofil Grün Nahtmaterial 0 (3,5), 75 cm, 1 x DS 30	1
Dafilon Blau Nahtmaterial 3/0 (2), 75 cm, 1 x DS 19	1
Askina Fix Fixierpflaster 15 x 20 cm	2

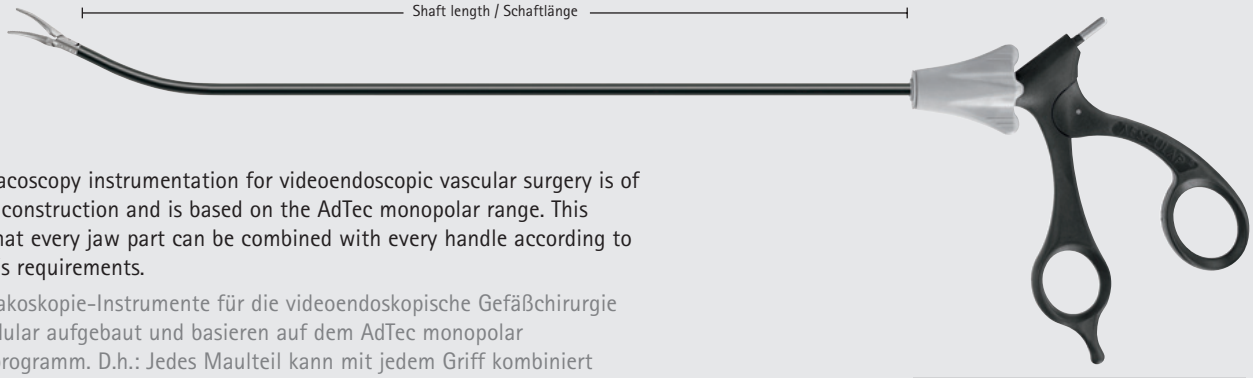
Bestelleinheit: PAK = Packung à 5 Sets


INCHES

Endo



Endoscopy
Endoskopie



- The thoracoscopy instrumentation for videoendoscopic vascular surgery is of modular construction and is based on the AdTec monopolar range. This means that every jaw part can be combined with every handle according to the user´s requirements.
- Die Thorakoskopie-Instrumente für die videoendoskopische Gefäßchirurgie sind modular aufgebaut und basieren auf dem AdTec monopolar Produktprogramm. D.h.: Jedes Maulteil kann mit jedem Griff kombiniert werden - je nach den Bedürfnissen des Anwenders.

Standard instrument - complete
Standardinstrument - komplett

Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
-	5 mm	310 mm



METZENBAUM
Scissors, serrated, tips curved to the left, with carbide inserts, distal shaft bent
For use with flexible 7 or 13 mm trocars only
Schere gezahnt, Blätter nach links gebogen, mit Hartmetalleinlage, Schaft gebogen
Zur Verwendung mit flexiblen 7 oder 13 mm Trokaren



-	5 mm	310 mm

Peritoneal scissors, serrated, distal shaft bent
For use with flexible 7 or 13 mm trocars only
Peritonealschere, gezahnt, Schaft gebogen
Zur Verwendung mit flexiblen 7 oder 13 mm Trokaren



-	5 mm	310 mm

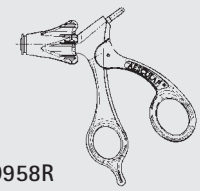
MARYLAND
Fixation and dissecting forceps, curved, distal shaft bent
For use with flexible 7 or 13 mm trocars only
Fass- und Präparierzange, aufgebogen, Schaft gebogen
Zur Verwendung mit flexiblen 7 oder 13 mm Trokaren

Single parts
Einzelkomponenten

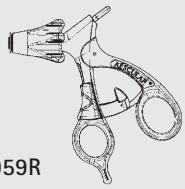
Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff
PO636R + PM940R	PM983P	PM955R
PM637R + PM940R	PM983P	PM955R
PO669R + PM940R	PM983P	PM955R

Individual components
Individuelle Komponenten

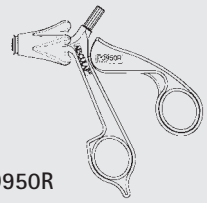
PO958R



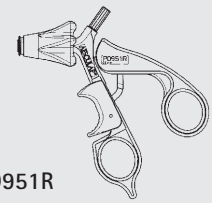
PO959R



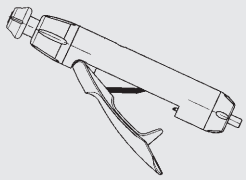
PO950R



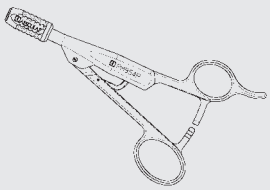
PO951R



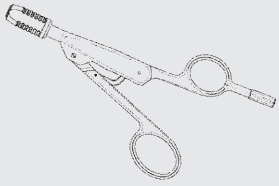
PM953R



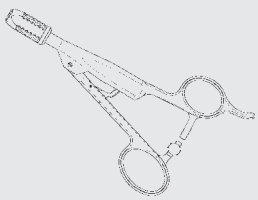
PM954R



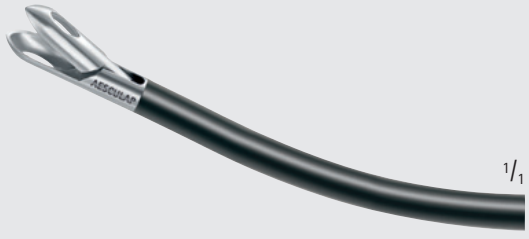
PM955R



PM957R





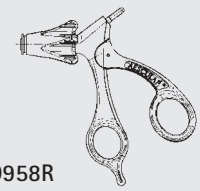
		Standard instrument - complete Standardinstrument - komplett		
		Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
 1/1	HEYWOOD-SMITH Tissue and swab forceps, distal shaft bent For use with flexible 13 mm trocars only Organ- und Tupferzange, Schaft gebogen Zur Verwendung mit flexiblen 13 mm Trokaren	-	5 mm	310 mm
 1/1	Pike-mouth forceps with reservoir in the jaw, distal shaft gebogen For use with flexible 7 or 13 mm trocars only Hechtmaulzange mit Reservoir im Maul, Schaft gebogen Zur Verwendung mit flexiblen 7 oder 13 mm Trokaren	-	5 mm	310 mm
 1/1	NELSON Grasping forceps sharp, distal shaft bent For use with flexible 7 or 13 mm trocars only Fasszange scharf, Schaft gebogen Zur Verwendung mit flexiblen 7 oder 13 mm Trokaren	-	5 mm	310 mm
 1/1	Sample excision forceps, distal shaft bent For use with flexible 7 or 13 mm trocars only Probeexzisionszange, Schaft gebogen Zur Verwendung mit flexiblen 7 oder 13 mm Trokaren	-	5 mm	310 mm

Single parts
Einzelkomponenten

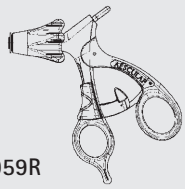
Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff
PO641R + PM940R	PM983P	PM954R
PO642R + PM940R	PM983P	PM954R
PO638R + PM940R	PM983P	PM954R
PM643R + PM940R	PM983P	PM954R

Individual components
Individuelle Komponenten

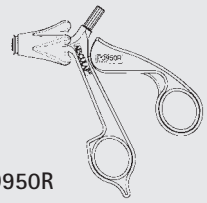
PO958R



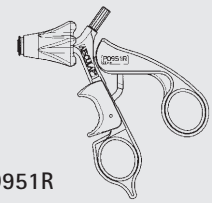
PO959R



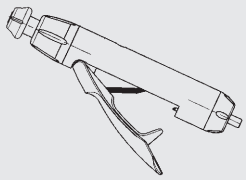
PO950R



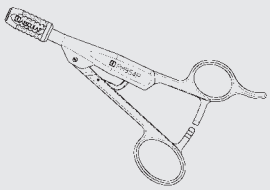
PO951R



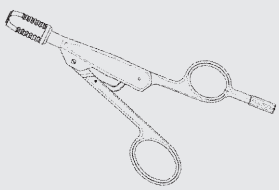
PM953R



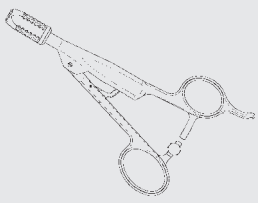
PM954R

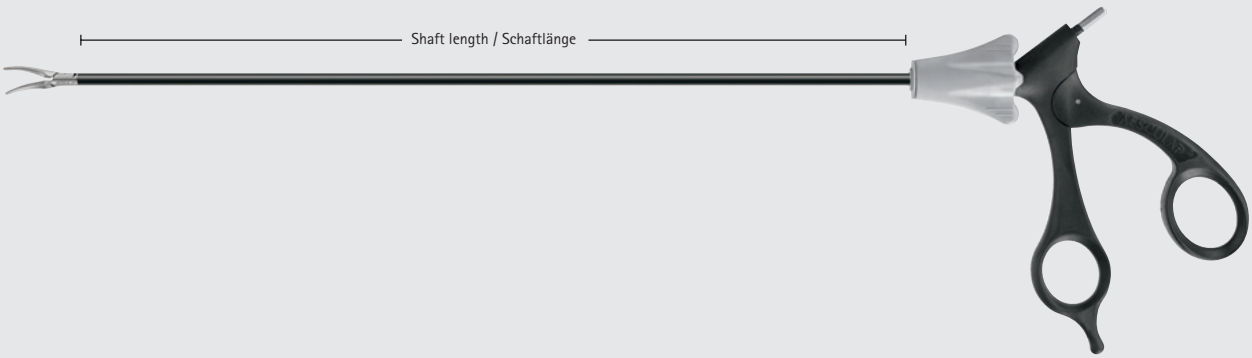


PM955R



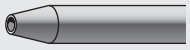
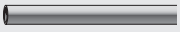
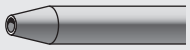
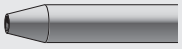
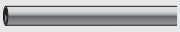
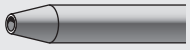
PM957R

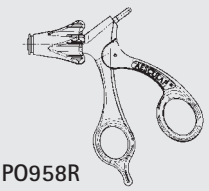
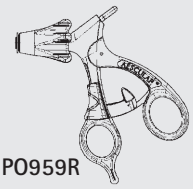


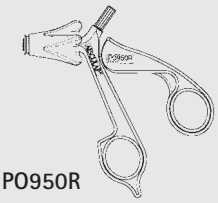
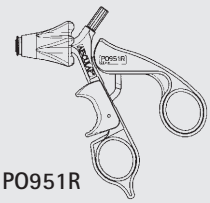


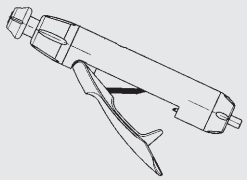
		Standard instrument - complete Standardinstrument - komplett		
		Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
 1/1	BABCOCK Tissue grasping forceps For use with flexible 13 mm trocars only Organfasszange Zur Verwendung mit flexiblen 13 mm Trokaren	-	5 mm	310 mm
 1/1	ALLIS Atraumatic tissue grasping forceps For use with flexible 13 mm trocars only Atraumatische Organfasszange Zur Verwendung mit flexiblen 13 mm Trokaren	-	5 mm	310 mm
 1/1	LINDER Endo lung grasping forceps For use with flexible 13 mm trocars only Endo-Lungenfasszange Zur Verwendung mit flexiblen 13 mm Trokaren	-	5 mm	220 mm
 1/1	LINDER Endo lung grasping forceps For use with flexible 13 mm trocars only Endo-Lungenfasszange Zur Verwendung mit flexiblen 13 mm Trokaren	-	5 mm	310 mm

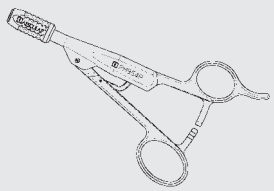
Single parts
Einzelkomponenten

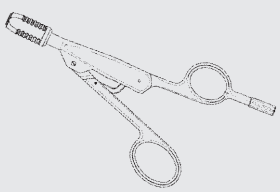
Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff	Individual components Individuelle Komponenten
PM640R 	PM973R 	PO959R 	PM975R  Ø 5/10 mm
PM670R 	PM973R 	PO959R 	PM975R  Ø 5/10 mm
PM696R 	PM970R 	PM955R 	PM971R  Ø 5/10 mm
PM687R 	PM973R 	PM955R 	PM975R  Ø 5/10 mm

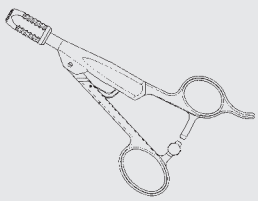
PO958R 
PO959R 

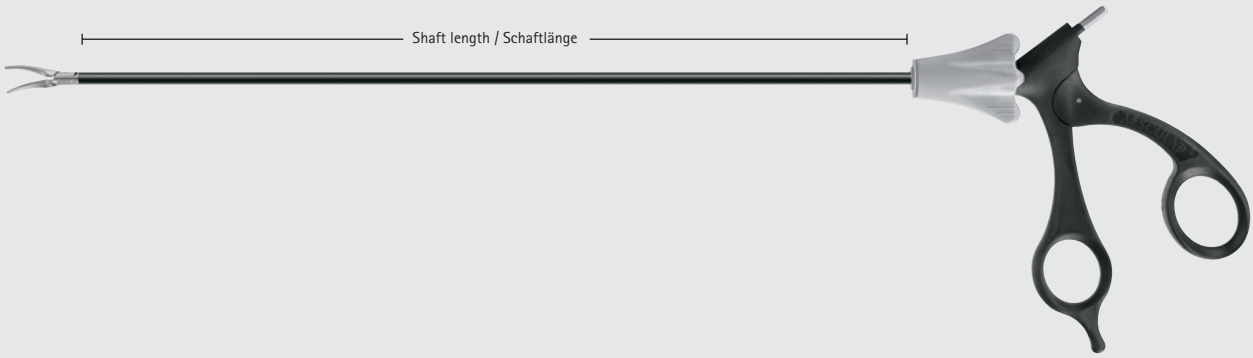
PO950R 
PO951R 

PM953R 

PM954R 

PM955R 

PM957R 



Standard instrument - complete
Standardinstrument - komplett

Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
PO188R	10 mm	310 mm



1/1

KIEFER
Atraumatic universal and lung forceps
Atraumatische Lungenfasszange

PO189R	5 mm	310 mm



1/1

MASSOUD
Delicate forceps for lateral fixation of structures and vascular grafts during dissecting and anastomosis
For use with flexible 13 mm trocars only
Zange zum seitlichen Fassen von Strukturen und Gefäßprothesen beim Präparieren und während der Anastomose
Zur Verwendung mit flexiblen 13 mm Trokaren

Single parts
Einzelkomponenten

Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff
PO731R	PM975R	PO959R
PO734R	PM973R	PO958R

Individual components
Individuelle Komponenten

PM973R

PM975R

Ø 5/10 mm

PO958R

PO959R

PO950R

PO951R

PM953R

PM954R

PM955R

PM957R

Curved and special instruments for thoracoscopy
- Adapted to the special anatomical situation in the thorax
- Curved instruments for increasing the degree of freedom
- For used with flexible trocars

Aufgebogenes bzw. spezielles Instrumentarium für die Thorakoskopie
- angepaßt an die besonderen anatomischen Gegebenheiten im Thorax
- aufgebogene Instrumente, um den Freiheitsgrad zu erhöhen
- zum Einsatz mit flexiblen Trokaren



	Diam. Ø	Length Länge
SR554R	5 mm	370 mm

Injection cannula, straight, distal tip diam. 0.8 mm
Injektionskanüle, gerade, distales Ende Ø 0,8 mm



	Diam. Ø	Length Länge
PL657R	5 mm	330 mm

Endo vessel spatula
Endo-Gefäßspatel



	Diam. Ø	Length Länge
PL659R	5 mm	330 mm

Dissection spatula, semi-sharp
Dissektionsspatel, halbscharf



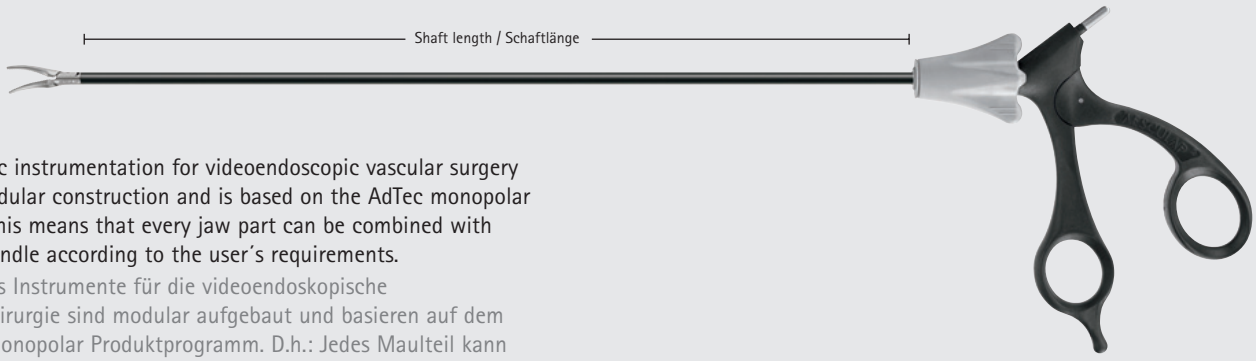
	Diam. Ø	Length Länge
PL663R	5 mm	310 mm

Endo pleural elevator (acc. to LINDER)
Endo-Pleuraelevator (nach LINDER)



	Diam. Ø	Length Länge
GF327R	5 mm	310 mm

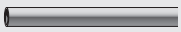
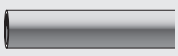
Curved suction and irrigation tube
with trumpet valve and large suction device
Aufgebogenes Saug-Spül-Rohr
mit Trompetenventil und großer Absaugung



- The basic instrumentation for videoendoscopic vascular surgery is of modular construction and is based on the AdTec monopolar range. This means that every jaw part can be combined with every handle according to the user's requirements.
- Die Basis Instrumente für die videoendoskopische Gefäßchirurgie sind modular aufgebaut und basieren auf dem AdTec monopolar Produktprogramm. D.h.: Jedes Maulteil kann mit jedem Griff kombiniert werden - je nach den Bedürfnissen des Anwenders.

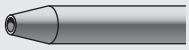
		Standard instrument - complete Standardinstrument - komplett		
		Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
 1/1	METZENBAUM Scissors, serrated, tips curved to the left, with carbide inserts Schere gezahnt, Blätter nach links gebogen, mit Hartmetalleinlagen	PO004R	5 mm	310 mm
 1/1	MINI-METZENBAUM Scissors, serrated, tips curved to the left, with carbide inserts, PEEK insulation of the distal shaft Schere gezahnt, Blätter nach links gebogen mit Hartmetalleinlagen, PEEK Isolation des Schaftes	-	5 mm	310 mm
 1/1	POTTS-DE MARTELL acc. SAID Endo vessel scissors Endo-Gefäßschere	PO014R	10 mm	310 mm
	Protection sleeve in combination with PO014R for a safe introduction of the POTTS-DE MARTELL scissors For use with 13 mm trocars only Schutzhülse zur Verwendung mit PO014R für das sichere Einbringen der POTTS DE MARTELL Schere Zur Verwendung mit 13 mm Trokaren	PM941R	12.5 mm	220 mm

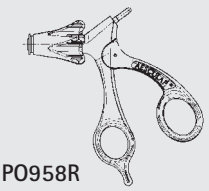
Single parts
Einzelkomponenten

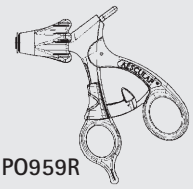
Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff
PO603R 	PM973R 	PO958R 
PM710R 	PM973R 	PO958R 
PO682R 	PM992R 	PO958R 

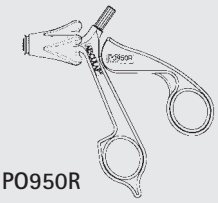
Individual components
Individuelle Komponenten

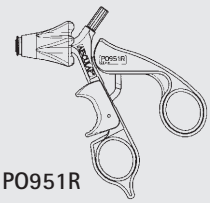
PM975R 
Ø 5/10 mm

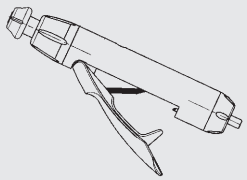
PM975R 
Ø 5/10 mm

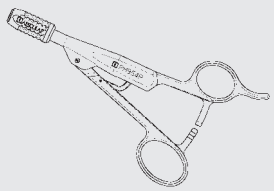

PO958R

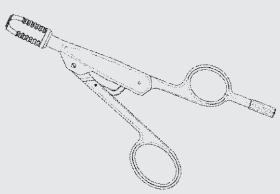

PO959R

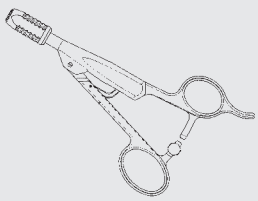

PO950R

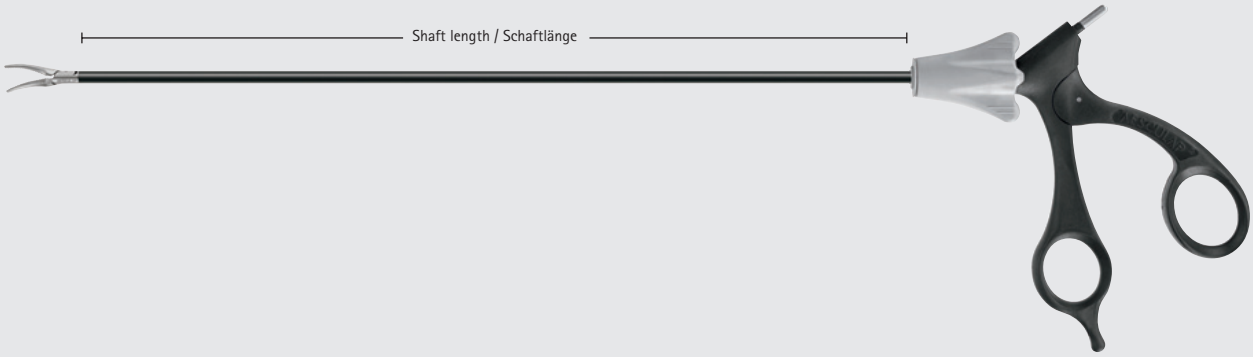

PO951R

PM953R 

PM954R 

PM955R 

PM957R 



Standard instrument - complete
Standardinstrument - komplett

Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
PO102R	5 mm	310 mm



1/1

MARYLAND
Fixation and dissecting forceps, curved
Fass- und Präparierzange, aufgebogen



1/1

PO141R	10 mm	310 mm

OVERHOLT
Dissecting clamp, 60°
Präparierzange, 60°

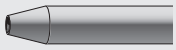


1/1

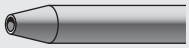
PO103R	10 mm	310 mm

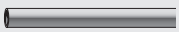
OVERHOLT
Dissecting clamp, 90°
Präparierzange, 90°

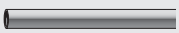
Single parts
Einzelkomponenten

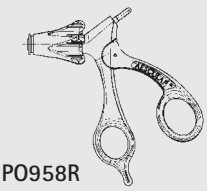
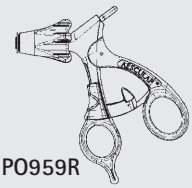
Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff
PO608R 	PM973R 	PO958R 
PO661R 	PM975R 	PO958R 
PO606R 	PM975R 	PO958R 

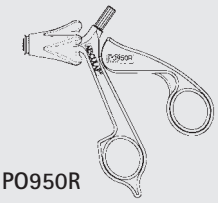
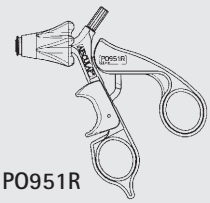
Individual components
Individuelle Komponenten

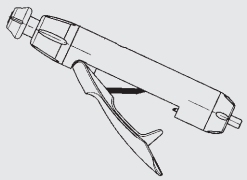
PM975R 
Ø 5/10 mm

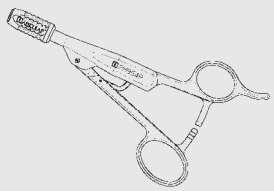
PM973R 
Ø 5 mm

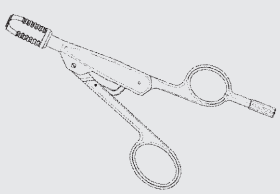
PM973R 
Ø 5 mm

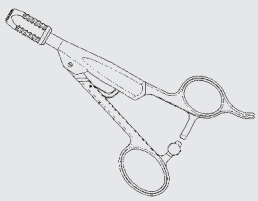
PO958R 
PO959R 

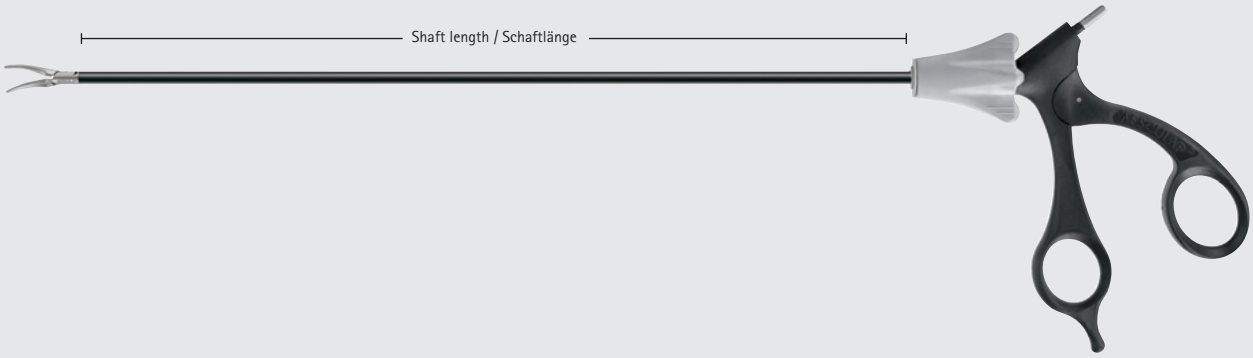
PO950R 
PO951R 

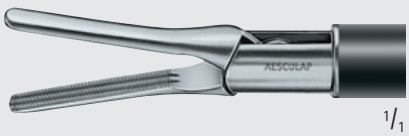
PM953R 

PM954R 

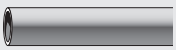
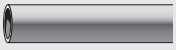
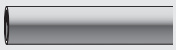
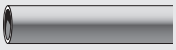
PM955R 

PM957R 

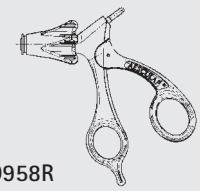


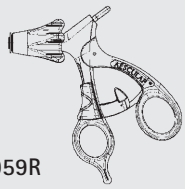
		Standard instrument - complete Standardinstrument - komplett		
		Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
 1/1	BABCOCK Tissue grasping forceps Organfasszange	PO196R	10 mm	370 mm
Toothing DE BAKEY ATRAUMATA® DE BAKEY Zahnung  1/1	DE BAKEY Atraumatic clamp Jaw length: 30 mm Atraumatische Klemme Maullänge: 30 mm	-	10 mm	370 mm
Toothing DE BAKEY ATRAUMATA® DE BAKEY Zahnung  1/1	DE BAKEY Atraumatic clamp Jaw length: 50 mm Atraumatische Klemme Maullänge: 50 mm	-	10 mm	220 mm
Toothing DE BAKEY ATRAUMATA® DE BAKEY Zahnung  1/1	DE BAKEY Atraumatic clamp Jaw length: 50 mm Atraumatische Klemme Maullänge: 50 mm	PO118R	10 mm	370 mm

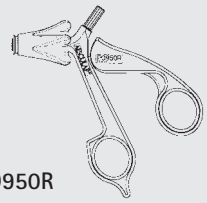
Single parts
Einzelkomponenten

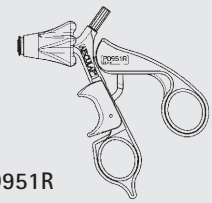
Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff
PO741R 	PM977R 	PO959R 
PM651R 	PM977R 	PO959R 
PM712R 	PM992R 	PM957R 
PO624R 	PM977R 	PO959R 

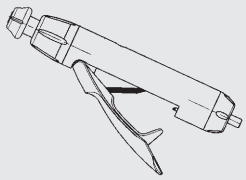
Individual components
Individuelle Komponenten

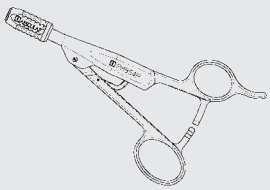
PO958R 

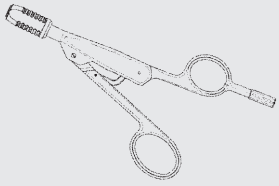
PO959R 

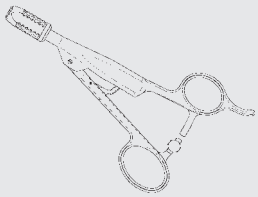
PO950R 

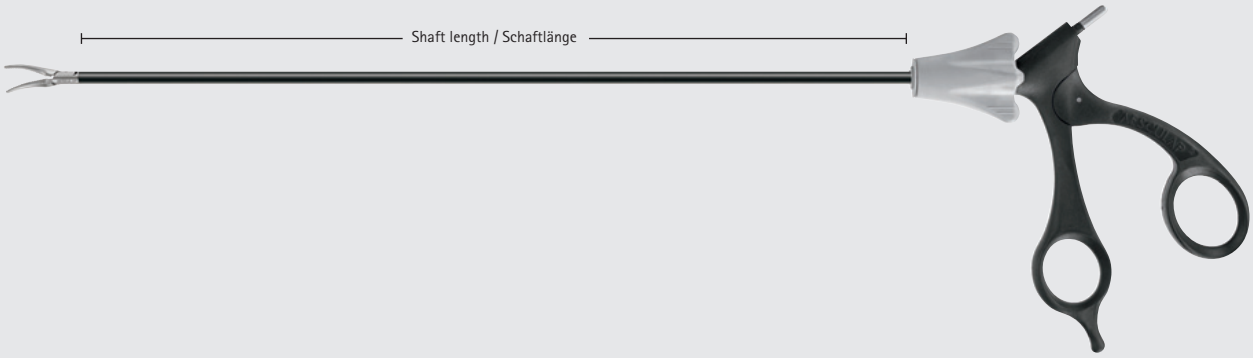
PO951R 

PM953R 

PM954R 

PM955R 

PM957R 



Standard instrument - complete
Standardinstrument - komplett

Toothing DE BAKEY

ATRAUMATA® DE BAKEY Zahnung



DE BAKEY

Atraumatic fixation forceps acc. to LINDER, s-shaped

For use with flexible 13 mm trocars only

Atraumatische Fasszange nach LINDER, s-förmig gebogen

Zur Anwendung mit flexiblen 13 mm Trokaren

Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
PM176R	5 mm	310 mm

Toothing DE BAKEY

ATRAUMATA® DE BAKEY Zahnung



1/1

CRAFOORD

Endo vascular clamp

For use with 10 mm trocars

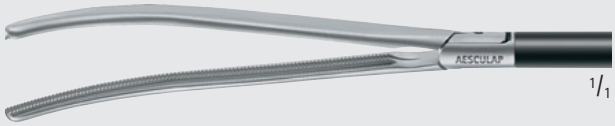
Endo-Gefäßklemme

Zur Verwendung mit 10 mm Trokaren

PM173R	5 mm	310 mm

Toothing DE BAKEY

ATRAUMATA® DE BAKEY Zahnung



1/1

CRAFOORD

Endo vascular clamp

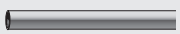
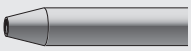
For use with 10 mm trocars

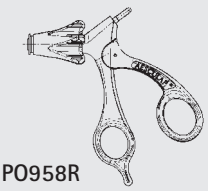
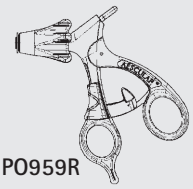
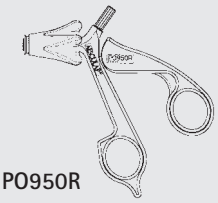
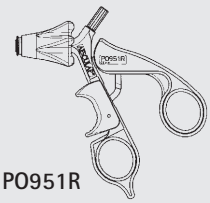
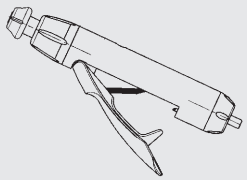
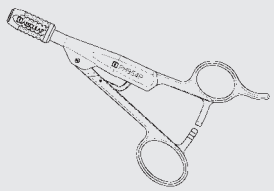
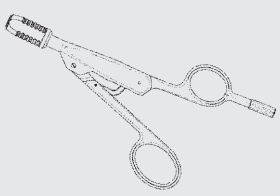
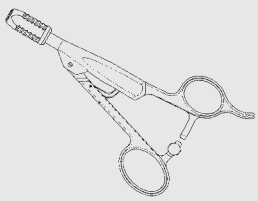
Endo-Gefäßklemme

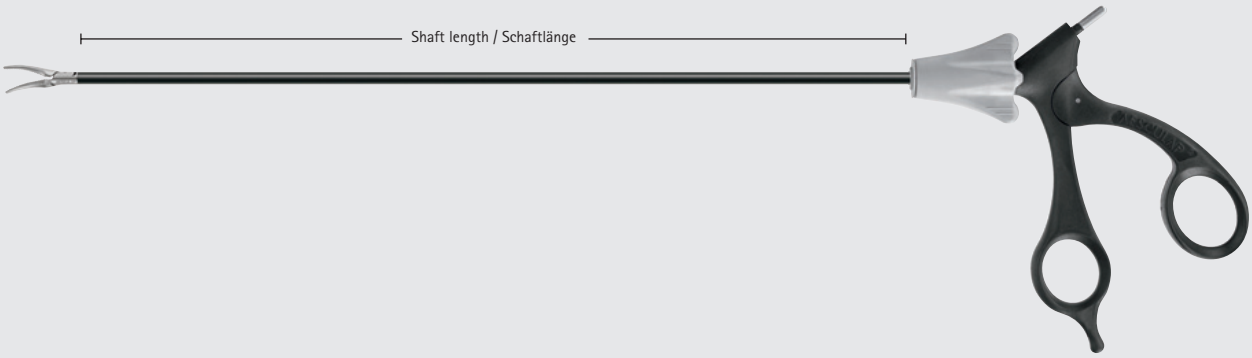
Zur Verwendung mit 10 mm Trokaren

PO152R	5 mm	370 mm

Single parts
Einzelkomponenten

Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff	Individual components Individuelle Komponenten
PM689R 	PM973R 	PM957R 	PM975R  Ø 5/10 mm
PM713R 	PM973R 	PM957R 	PM975R  Ø 5/10 mm
PO684R 	PM976R 	PO959R 	PM978R  Ø 5/10 mm

PO958R 
PO959R 
PO950R 
PO951R 
PM953R 
PM954R 
PM955R 
PM957R 

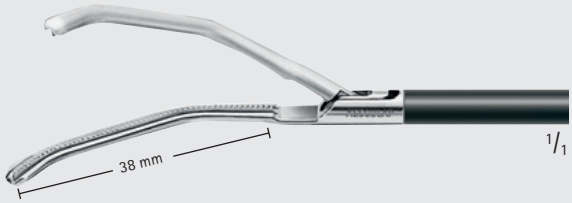


Standard instrument - complete
Standardinstrument - komplett

Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
PM171R	5 mm	310 mm

Toothing DE BAKEY

ATRAUMATA® DE BAKEY Zahnung

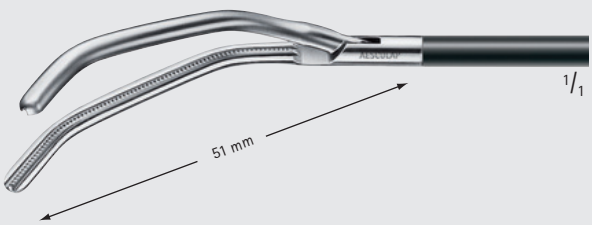


SATINSKY
Atraumatic clamp
For use with flexible 13 mm trocars only
Atraumatische Klemme
Zur Verwendung mit flexiblen 13 mm Trokaren

Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
PM177R	5 mm	310 mm

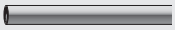
Toothing DE BAKEY

ATRAUMATA® DE BAKEY Zahnung

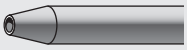


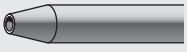
SATINSKY
Atraumatic clamp
For use with flexible 13 mm trocars only
Atraumatische Klemme
Zur Verwendung mit flexiblen 13 mm Trokaren

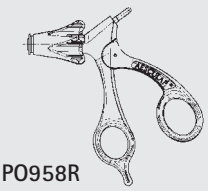
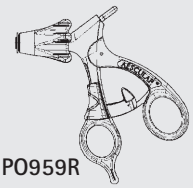
Single parts
Einzelkomponenten

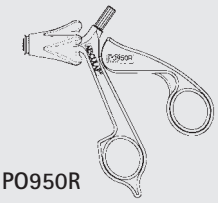
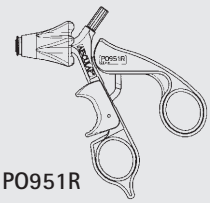
Jaw inserts Mauleinsatz	Insulated outer tube Isoliertes Außenrohr	Handle Griff
PM711R 	PM973R 	PM957R 
PM616R 	PM973R 	PM957R 

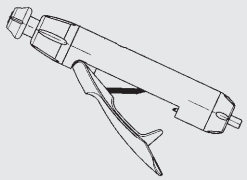
Individual components
Individuelle Komponenten

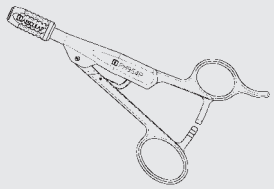
PM975R 
Ø 5/10 mm

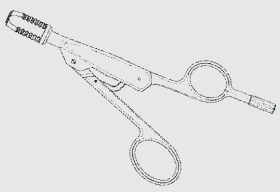
PM975R 
Ø 5/10 mm

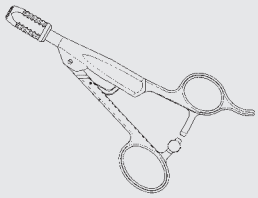
PO958R 
PO959R 

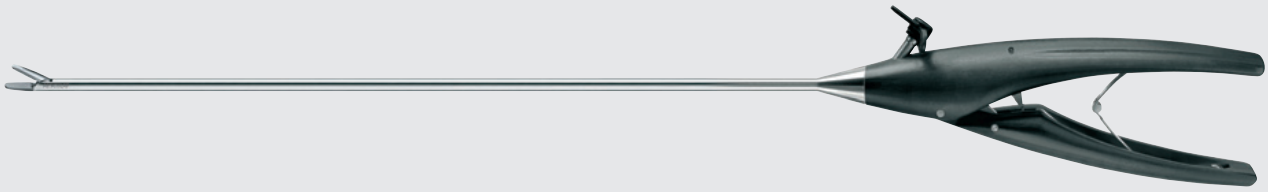
PO950R 
PO951R 

PM953R 

PM954R 

PM955R 

PM957R 



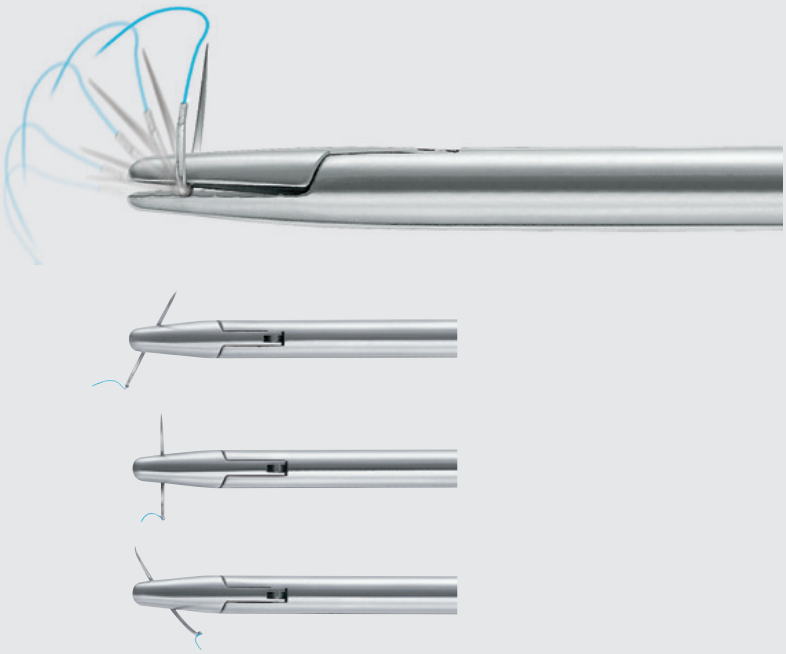
		Standard instrument - complete Standardinstrument - komplett		
		Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
 1/1	DUROGRIP needle holder, straight DUROGRIP Nadelhalter, gerade	PL407R	5 mm	310 mm
 1/1	DUROGRIP needle holder, curved left DUROGRIP Nadelhalter, links gebogen	PL408R	5 mm	310 mm
 1/1	DUROGRIP needle holder, curved right DUROGRIP Nadelhalter, rechts gebogen	PL413R	5 mm	310 mm

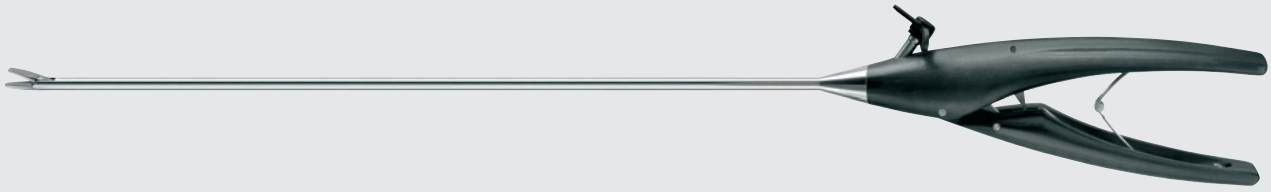
SUPER-righting needle holder

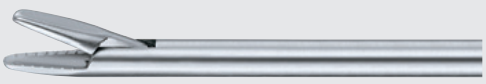
- Allow automatic upright positioning of the needle at different angles to the instrument shaft

Selbstaufrichtender Nadelhalter

- Ermöglicht das selbsttätige Aufrichten der Nadel in unterschiedlichen Winkelstellungen zum Instrumentenschaft







1/1

SUPER-righting needle holder
Selbstaufrichtender Nadelhalter

Standard instrument - complete
Standardinstrument - komplett

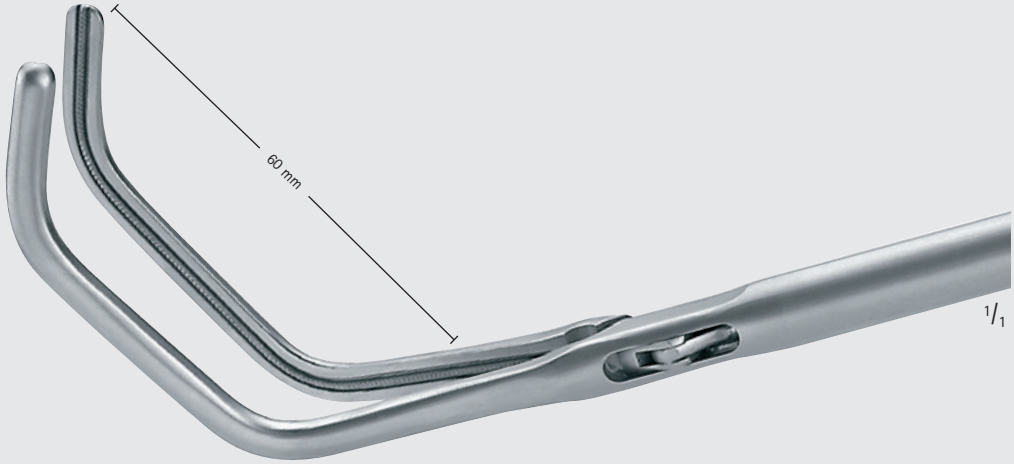
Complete Cat. No. Komplett Art. Nr.	Diam. Ø	Shaft length Schaft-länge
PL414R	5 mm	310 mm

- For improved force transfer, the vascular clamps of the supplementary instruments are of non-modular construction. The instruments have a rinsing port for cleaning. Since the instruments are practically never exchanged during surgery, they can be used directly transcutaneously.

- Für verbesserte Kraftübertragung sind die Gefäßklemmen nicht modular konstruiert. Zur Reinigung sind die Instrumente mit einem Spülanschluss ausgestattet. Da die Instrumente intraoperativ praktisch nicht ausgetauscht werden müssen, können sie direkt transkutan eingebracht werden.

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DE BAKEY Zahnung



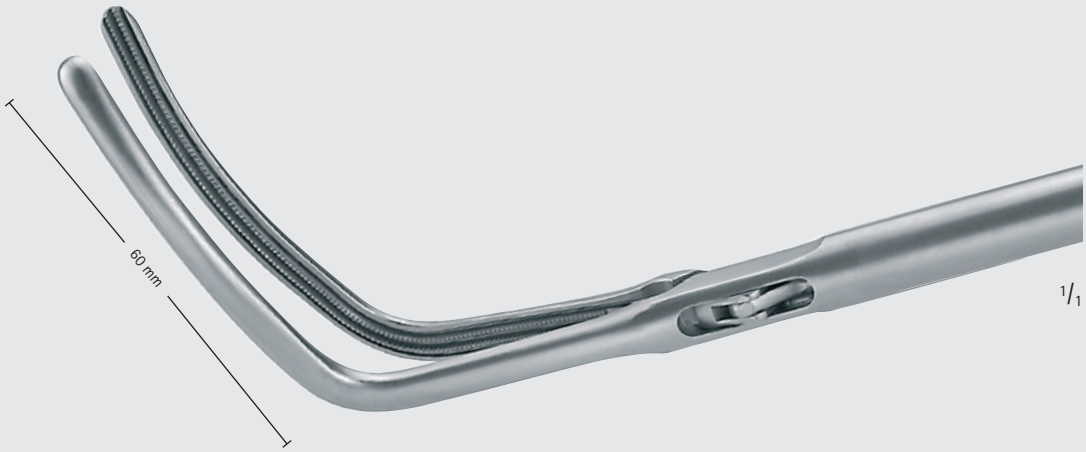
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DE BAKEY Zahnung



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DE BAKEY Zahnung



- The design of the curved jaw fulfils the requirements while clamping the calcified aorta
- Das gebogene Maulteil erfüllt die Anforderungen beim Klemmen einer kalzifizierten Aorta

Cat. No. Art. Nr.	Diam. Ø	Working length Arbeitslänge	Total length Gesamtlänge
PL210R	10 mm	360 mm	516 mm

SATINSKY mod. ALIMI
Atraumatic distal and proximal clamp, for clamping the area of the anastomosis
Atraumatische distale und proximale Klemme zum Ausklemmen des Anastomosenbereichs



PL211R	10 mm	375 mm	531 mm

SATINSKY mod. ALIMI
Atraumatic distal and proximal clamp, for clamping the area of the anastomosis
Atraumatische distale und proximale Klemme zum Ausklemmen des Anastomosenbereichs

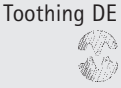


PL212R	10 mm	365 mm	521 mm

DE BAKEY mod. EDOGA
Atraumatic proximal clamp
Atraumatische proximale Klemme



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DE BAKEY Zahnung

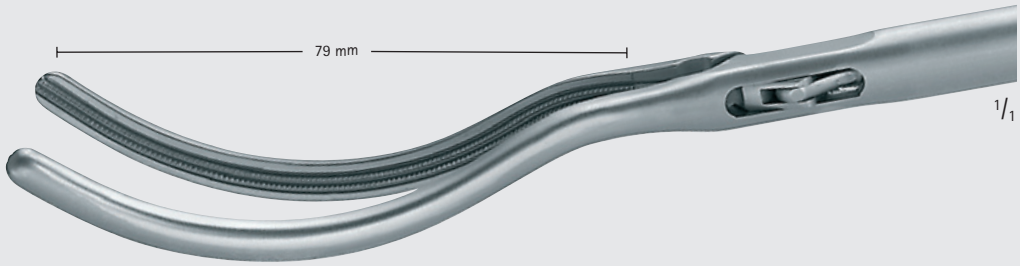


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DE BAKEY Zahnung

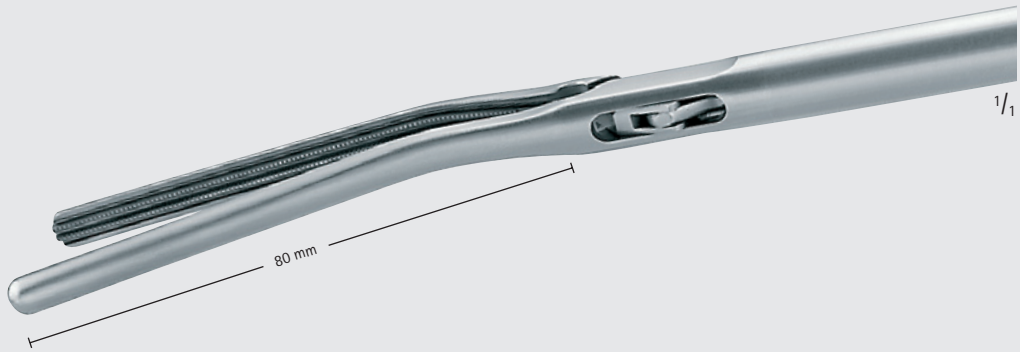
- The curvature allows extended space for the anastomosis of the graft
- Die Biegung ermöglicht Raum für Prothesenanastomosen



TRAUMATA®
Toothing DE BAKEY

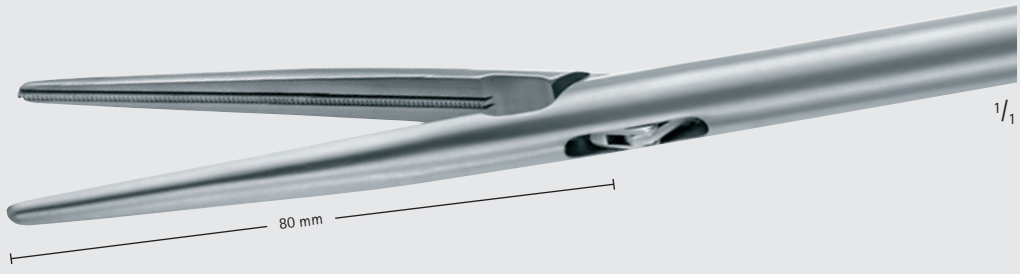


DE BAKEY Zahnung



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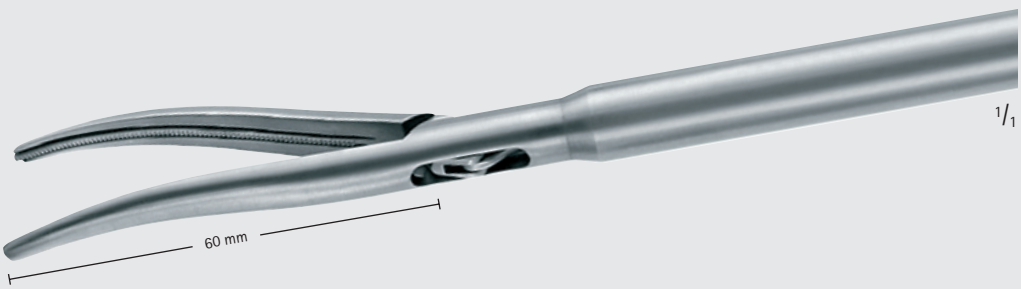
DE BAKEY Zahnung



TRAUMATA®
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DE BAKEY Zahnung



	Cat. No. Art. Nr.	Diam. Ø	Working length Arbeitslänge	Total length Gesamtlänge
DE BAKEY mod. ALIMI Atraumatic distal clamp, for parallel clamping of the aorta and lumbal vessel Atraumatische distale Klemme zum gleichzeitigen Abklemmen der Aorta und den abgehenden Lumbalgefäßen	PL213R	10 mm	335 mm	491 mm



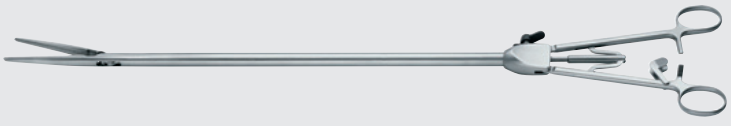
DE BAKEY mod. ALIMI Atraumatic proximal and distal clamp Atraumatische distale und proximale Klemme	PL214R	10 mm	355 mm	508 mm



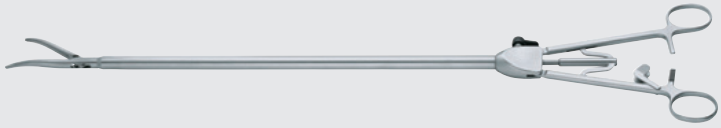
DE BAKEY mod. ALIMI Atraumatic proximal and distal clamp, jaws 10° angled Atraumatische distale und proximale Klemme, Maul 10° abgewinkelt	PL215R	10 mm	335 mm	496 mm

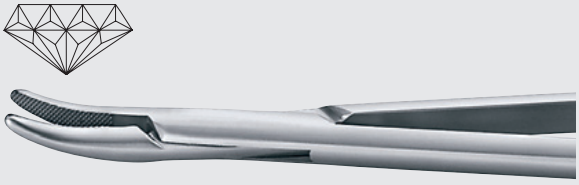


DE BAKEY Atraumatic vascular clamp, straight shaft with straight jaw Atraumatische Gefäßklemme mit geradem Schaft, Maul gerade	PL216R	10 mm	363 mm	530 mm



DE BAKEY Atraumatic vascular clamp, straight shaft with curved jaw Atraumatische Gefäßklemme mit geradem Schaft, Maul gebogen	PL217R	10 mm	340 mm	504 mm





1/1



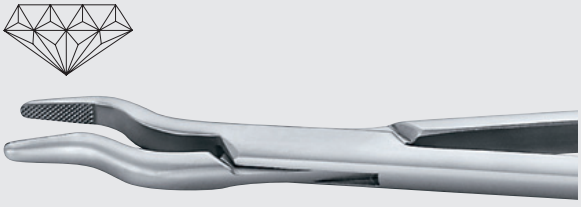
MÜLLER

BM089R

DUROGRIP needle holder

DUROGRIP Nadelhalter

360 mm, 14"



1/1



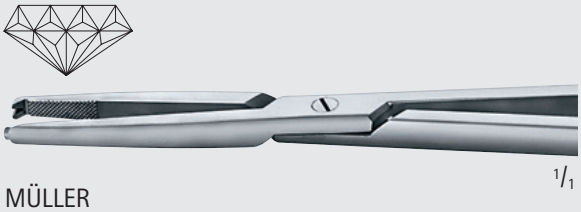
MÜLLER

BM106R

DUROGRIP needle holder

DUROGRIP Nadelhalter

350 mm, 14"



1/1



MÜLLER

BD185R

DUROGRIP suture forceps

DUROGRIP Nahtpinzette

300 mm, 12"

Toothing DE BAKEY
DE BAKEY Zahnung

ATRAUMATA®



1/1



DE BAKEY

FB409R

Atraumatic forceps
Atraumatische Pinzette
350 mm, 14"



Wavecut
prevents tissue
from slipping out
Wellenschliff
verhindert das Herausgleiten
des Gewebes



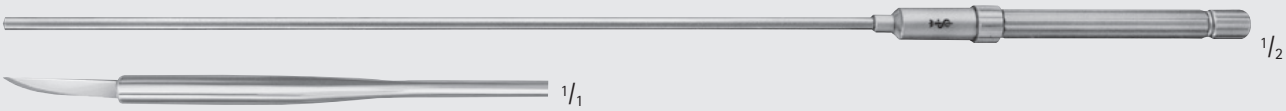


1/1



BC298W

DUROTIP ligature scissors with Wavecut
DUROTIP Fadenschere mit Wellenschliff
350 mm, 14"



	Diam. Ø	Total length Gesamtlänge
BB060R	5 mm	330 mm

Scalpel handle for knife blades, blade retractable

Skalpellgriff für Skalpellklingen, Klinge versenkbar

sterile
steril

Scalpel blades must be ordered separately

Skalpellklingen bitte separat bestellen



BB361R

PAK = Package of 10 pieces

PAK = Packung à 10 Stück



BB362R

PAK = Package of 10 pieces

PAK = Packung à 10 Stück



BB363R

ST = Package of 1 piece

ST = Packung à 1 Stück



BB364R

PAK = Package of 10 pieces

PAK = Packung à 10 Stück



BB365R

PAK = Package of 10 pieces

PAK = Packung à 10 Stück



BB367R

PAK = Package of 10 pieces

PAK = Packung à 10 Stück



BB369R

ST = Package of 1 piece

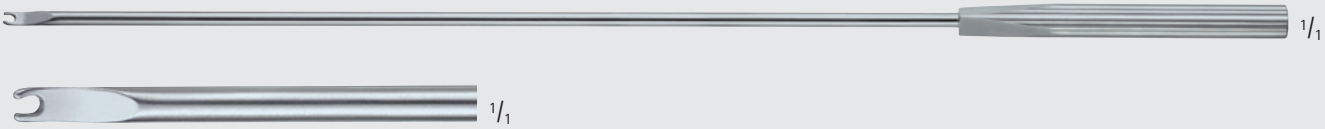
ST = Packung à 1 Stück



	Diam. Ø	Shaft length Schaftlänge
PO193R	5 mm	330 mm

Suture hook

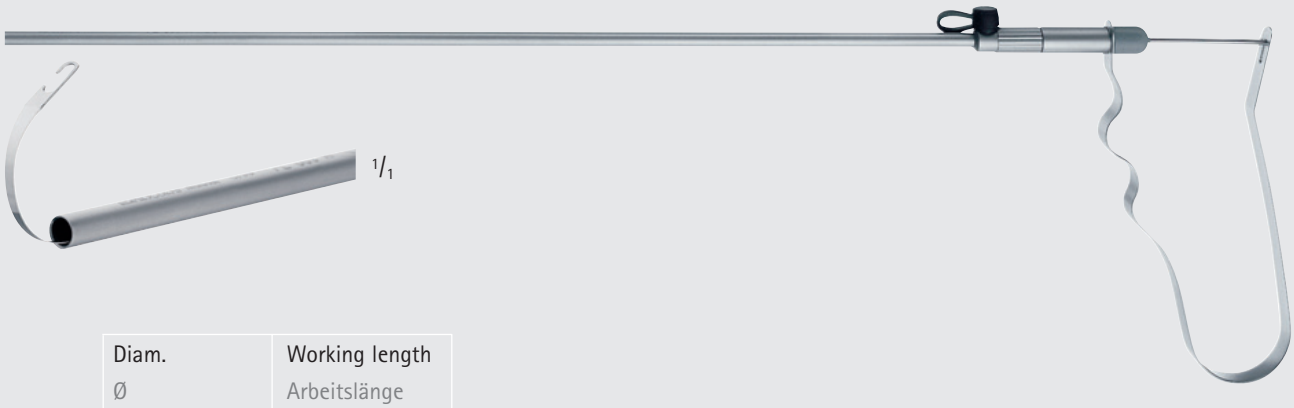
Nahthäkchen



	Diam. Ø	Shaft length Schaftlänge
PL432R	5 mm	310 mm

Knot guide instrument for extracorporal knots acc. to KUTHE

Knotenführungsinstrument für extrakorporale Knoten nach KUTHE



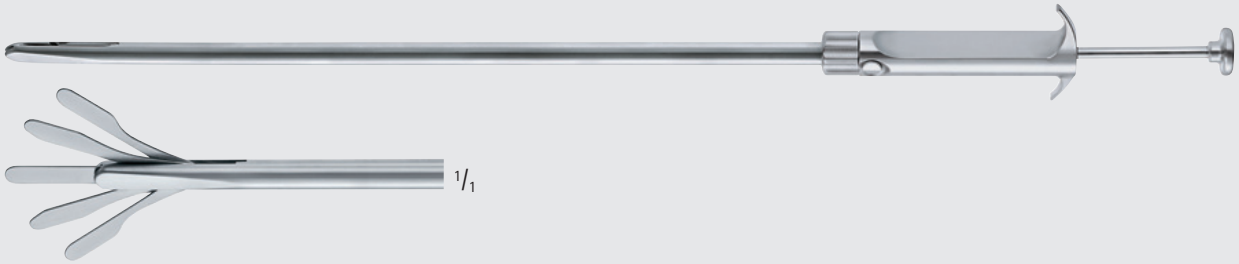
	Diam. Ø	Working length Arbeitslänge
PL669R	5 mm	310 mm

Endo ligature needle
Endo-Unterbindungsnadel



	Diam. Ø	Working length Arbeitslänge
PL661R	5 mm	400 mm
PL662R	10 mm	400 mm

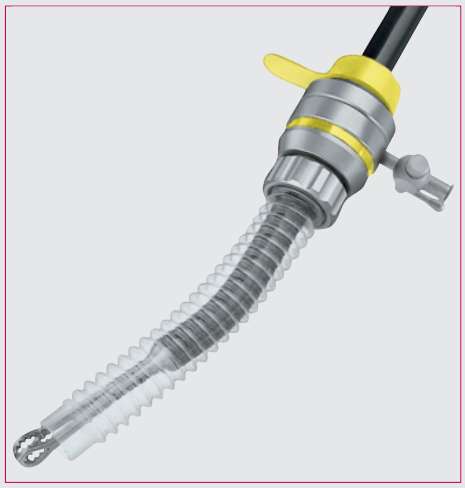
Retraction instruments for fine structures
Proximal instrument end can be manually angled (30°, 45°, 75°, 90°)
Retraktionsinstrumente für feine Strukturen
Proximales Instrumentenende manuell abwinkelbar (30°, 45°, 75°, 90°)



	Diam. Ø	Working length Arbeitslänge
PL680R	10 mm	400 mm

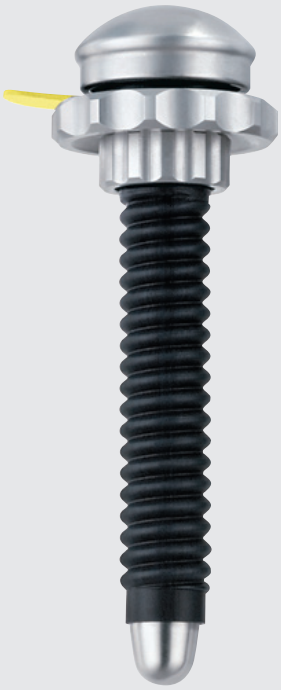
Fan retractor
Fächerretraktor

- **Flexible thoracoscopy trocars, complete**
  - Length: 75 mm
  - Without valve
  - With obturator
- **Flexible Thorakoskopie Trokare, komplett**
  - Länge: 75 mm
  - Ohne Ventilfunktion
  - Mit Obturator



Ø 7 mm	Ø 13 mm





EJ830R

EJ595R



	Diam. Ø	Length Länge
EJ804P	7 mm	75 mm

Trocar shaft
(spare part)
Sales unit:
PAK = Package of 3 pieces

Trokarschaft
(Ersatzteil)
Bestelleinheit:
PAK = Packung à 3 Stück

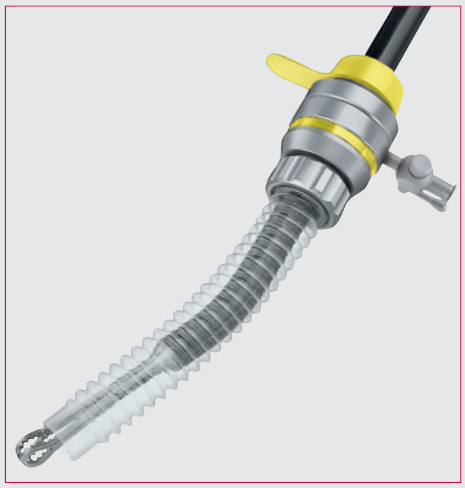


	Diam. Ø	Length Länge
EJ824P	13 mm	75 mm

Trocar shaft
(spare part)
Sales unit:
PAK = Package of 3 pieces

Trokarschaft
(Ersatzteil)
Bestelleinheit:
PAK = Packung à 3 Stück

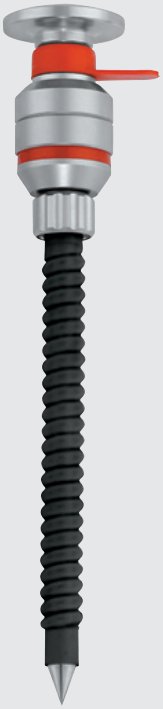
- **Flexible laparoscopy trocars, complete**
  - Length: 100 mm
  - With valve
  - With obturator
- **Flexible Laparoskopie Trokare, komplett**
  - Länge: 100 mm
  - Mit Ventilfunktion
  - Mit Obturator



Ø 7 mm	Ø 13 mm

including sealing cap
EJ642P

inklusive Dichtkappen-Set
EJ642P





EJ800R

for curved instruments
with diam. 5 mm

für gebogene Instrumente
mit Ø 5 mm

EJ590R

for curved instruments
with diam. 10 mm

für gebogene Instrumente
mit Ø 10 mm



	Diam. Ø	Length Länge
EJ806P	7 mm	100 mm

Trocar shaft
(spare part)
Sales unit:
PAK = Package of 3 pieces

Trokarschaft
(Ersatzteil)
Bestelleinheit:
PAK = Packung à 3 Stück



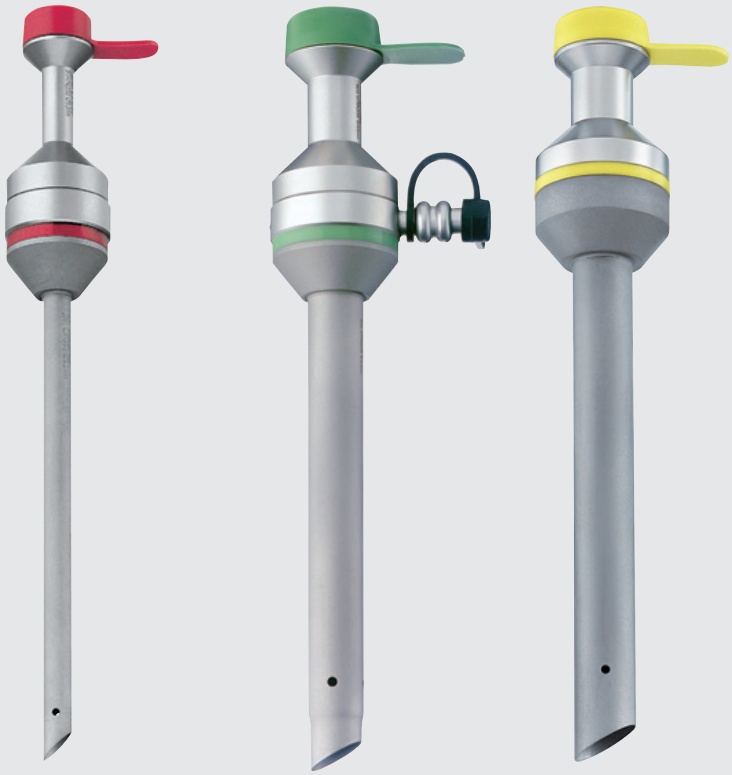
	Diam. Ø	Length Länge
EJ826P	13 mm	100 mm

Trocar shaft
(spare part)
Sales unit:
PAK = Package of 3 pieces

Trokarschaft
(Ersatzteil)
Bestelleinheit:
PAK = Packung à 3 Stück

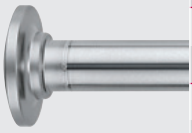
- **Rigid MIT Trocar system**
  - Length: 110 mm
  - With valve
  - Without obturator
- **Starres MIT Trokar System**
  - Länge: 110 mm
  - Mit Ventilfunktion
  - Ohne Obturator

Ø 5.5 mm	Ø 10 mm	Ø 13 mm
	with insufflation connection mit Insufflations-Anschluss	



EJ701R EJ751R EJ580R

Diam. / Ø	5.5 mm	10 mm	13 mm	
	EJ715R	EJ755R	EJ586R	triangular Dreikant
	EJ716R	EJ756R	EJ587R	conical sharp keglig-spitz
	EJ718R	EJ558R	EJ588R	conical blunt keglig-stumpf



EJ558R–EJ756R

Obturators

Trokar-Dorne


www.endoskopie-katalog.de
www.endoscopy-catalog.com
Aesculap Endoscopic Technology
Instruments
Visual Systems
Insufflation
Suction Irrigation
Electrosurgery
Clip Applicators
Special Instruments
Endoscope Retention System
Laparoscopy Electrodes
Gastric Tube Introducer



Full HD 3 Chip camera system with 1080p60 technology

- Full HD image quality (1920 x 1080 pixel) provides a crystal-clear image of unprecedented quality
- Full HD camera provides 16:9 widescreen images for increased lateral image viewing
- Up to 6 times higher image resolution compared to standard cameras
- Full HD camera with advanced High-Definition-3-Chip technology produces 3-D lifelike images with outstanding depth perception
- Progressive scan technology provides a lag-free image
- Speciality modes produce best possible images in every situation
- Multi-speciality HD camera works with any standard endoscope
- Integrated optical parfocal zoom (2.5x) and digital zoom (2x) for maximum detail enhancement
- Easy operation of camera functions via integrated control buttons in the camera head
- Ergonomic camera head for fatigue-free working
- Present camera settings are displayed on the LCD monitor
- Detachable replacement camera cable for easy and quick exchange - locally

Accessories (to be ordered separately)

PV441	Replacement camera cable, 3 m
PV442	Camera head with cable and zoom coupler

Full HD Camera System, complete

PV440

CCD (Inch)	3 x 1/3"
Camera Resolution	1920 x 1080 Pixel
Scan mode	Progressive Scan
Modes	5 Presettings 3 User Settings
Video Signal Outputs	DVI-D 1080p HD-SDI 1080i 720 p HD-RGB 1080i 720 p S-Video Video (composite)
Buttons on Camera Head	2 (6 functions)
Shutter Speed	1/50 – 1/10 000 s
Zoom	Optical (18-45 mm) & digital (2 x)
Color Bars	Yes
Dimensions camera head w/o zoom coupler (w x h x d)	40 x 53 x 75 mm
Dimensions CCU (w x h x d)	305 x 89 x 305 mm
Weight CCU	4.5 kg
Weight camerahead w/o zoom	140 g
Length Camera Cable	3 m
On-screen Display	Yes
Power Supply	100-240 VAC, 50-60 Hz
Maximum Power Consumption	45 VA
Tested acc. to norm	EN 60601-1, EN 60601-1-2
Safety Class acc. to EN 60601-1	I
Protection level acc. to EN 60601-1	CF
Classification acc. to directive 93/42/EEC	I



Full HD 3 Chip Kamerasystem mit 1080p60 Technologie

- Full HD Bildqualität (1920x1080 Pixel) liefert kristallklare Bilder in höchster Qualität
- Das 16:9 Bildformat erweitert das Blickfeld und ermöglicht das frühere Erkennen der Instrumente
- Die Kamera bietet eine bis zu 6-fach höhere Auflösung im Vergleich zu konventionellen Standardkameras
- Wegweisende 3-Chip Full HD Technologie liefert 3D-ähnliche Bilder
- Progressive-Scan-Technologie garantiert ein verzögerungsfreies Bild auf dem Monitor
- Spezielle Modi optimieren die Kameraeinstellungen bestmöglichst auf das jeweilige Einsatzgebiet
- Für gestochen scharfe Bilder bis ins kleinste Detail empfehlen wir den Einsatz der neuen Aesculap Full HD Endoskope
- Das weltweit erste 5-fach Zoom bei einer Endoskopiekamera zeigt kleinste Details in perfekter Full HD Qualität
- Alle wichtigen Kamerafunktionen können über die integrierten Bedientasten aktiviert werden
- Ergonomischer Kamerakopf für ermüdungsfreies Arbeiten
- Aktuelle Kameraeinstellungen werden am Monitor wiedergegeben
- Das Kameraersatzkabel PV441 ermöglicht den schnellen Austausch vor Ort

Zubehör (extra zu bestellen)

PV441	Kameraersatzkabel, 3 m
PV442	HD Kamerakopf mit Zoom und Kabel

Full HD Kamera System, komplett

PV440

CCD (Zoll)	3 x 1/3"
Kamera Auflösung	1920 x 1080 Pixel
Scan Modus	Progressive Scan
Modi	5 Voreinstellungen 3 frei wählbare Einstellungen
Videosignalausgänge	DVI-D 1080p HD-SDI 1080i 720 p HD-RGB 1080i 720 p S-Video Video (BNC)
Knöpfe am Kamerakopf	2 (6 Funktionen)
Shuttergeschwindigkeit	1/50 – 1/10 000 s
Zoom	Optisch (18-45 mm) & digital (2 x)
Farbbalken	Ja
Abmessung Kamerakopf ohne Endoobjektiv (B x H x T)	40 x 53 x 75 mm
Abmessungen CCU (B x H x T)	305 x 89 x 305 mm
Gewicht CCU	4.5 kg
Gewicht Kamerakopf ohne Endoobjektiv	140 g
Länge Kamerakabel	3 m
On-screen Display	Ja
Netzspannung	100-240 VAC, 50-60 Hz
Maximale Leistungsaufnahme	45 VA
Norm	EN 60601-1, EN 60601-1-2
Schutzklasse nach EN 60601-1	I
Anwendungsteil EN 60601-1	CF
Klassifikation nach 93/42/EEC	I



Exceptional High Definition medical monitor

- Image lag reduction for super fast video imaging (10 - 16 ms response time)
- Wide viewing angle (178°)
- VESA 100 Standard for adaptation to monitor stand, wall or ceiling mounting
- Multilingual user menu (language, color, brightness...)
- Low power consumption
- Lightweight construction
- Space-saving design
- Automatic selection of video signal
- Multi-Modality (PIP)

Accessories (to be ordered separately)

PV909 Stand for flat panel display (100 mm VESA mounting)

23" Full HD flat panel display

PV944

Panel Quality	With anti-reflection safety glass
Viewable Diagonal (Inches)	23.0
Brightness (cd/m²)	500
Resolution (Pixel)	1920 x 1200 (Full-HD)
Viewing Angle Horizontal/Vertical	178°/178°
Aspect Ratio	16:10
Contrast Ratio	700:1
Video signal inputs	DVI (DVI-D) SDI/HD-SDI (BNC) RGB/HD-RGB (4 x BNC or HD-15) S-VHS (DIN-4 and 2x BNC) Composite (BNC) VGA (HD-15)
Video signal outputs	DVI (DVI-D) SDI/HD-SDI (BNC) RGB/HD-RGB (4 x BNC or HD-15) S-VHS (DIN-4) Composite (BNC)
Control Inputs	RS-232 (DB-9)
Suitable stand	PV909 (optional)
Menu Control	7 languages
VESA-Standard Mounting System	100 mm
Maximum Power Consumption	80 VA
Dimensions (w x h x d)	597 x 401 x 100 mm
Weight	7.1 kg
Power Supply	Input 100-240 V AC, 50-60 Hz Output 24 V DC
Tested acc. to norm	EN 60601-1, EN 60601-1-2
Safety Class acc. to EN 60601-1	I
Classification acc. to directive 93/42/EEC	I



Die „Königsklasse" der medizinischen Monitore

- Verzögerungsfreier Bildaufbau (10-16 ms Reaktionszeit)
- Großer Bildbetrachtungswinkel (178°)
- VESA Standard Montagebohrungen 100 mm
- Mehrsprachiges Benutzermenu (Sprache, Farb- und Helligkeits-Einstellungen)
- Geringer Stromverbrauch
- Geringes Gewicht
- Platzsparendes Design
- Automatische Videosignal-Auswahl
- Bild-in-Bild Modus (PiP)

Zubehör (extra zu bestellen)

PV909 Standfuß für Flachbildschirmmonitor (100 mm VESA Standard)

23" Full HD Flachbildschirm

PV944

Bildschirmqualität	Mit antireflektierendem Schutzglas
Sichtbare Diagonale (Zoll)	23.0
Helligkeit (cd/m²)	500
Auflösung (Bildpunkte)	1920 x 1200 (Full-HD)
Betrachtungswinkel horizontal/vertikal	178°/178°
Bildformat	16:10
Kontrastverhältnis	700:1
Videosignaleingänge	DVI (DVI-D) SDI/HD-SDI (BNC) RGB/HD-RGB (4 x BNC oder HD-15) S-VHS (DIN-4 und 2x BNC) Composite (BNC) VGA (HD-15)
Videosignalausgänge	DVI (DVI-D) SDI/HD-SDI (BNC) RGB/HD-RGB (4 x BNC oder HD-15) S-VHS (DIN-4) Composite (BNC)
Schnittstelle	RS-232 (DB-9)
Passender Standfuß	PV909 (optional)
Menüsteuerung	7 Sprachen
VESA-Standard Montage-bohrungen	100 mm
Maximale Leitungsaufnahme	80 VA
Abmessungen (B x H x T)	597 x 401 x 100 mm
Gewicht	7,1 kg
Netzspannung	Input 100-240 V AC, 50-60 Hz Output 24 V DC
Norm	EN 60601-1, EN 60601-1-2
Schutzklasse nach EN 60601-1	I
Klassifikation nach 93/42/EEC	I



Xenon Light Source

AXeL 180

OP930

System	Xenon
Integrated light cable connection	Aesculap / Storz
Integrated Spare lamp	No
Lamp Output	180 W
Lamp Voltage	15 V/12 A
Lamp life time	> 500 hrs
Lamp Intensity Increase	Continuously
Color Temperature	6000 K
Power Supply	100-240 VAC, 50-60Hz
Maximum Power Consumption	240 VA
Dimensions (w x h x d)	305 x 125 x 305 mm
Weight	6.4 kg
Tested acc. to norm	EN 60601-1, EN 60601-1-2
Safety Class acc. to EN 60601-1	I
Protection level acc. to EN 60601-1	BF
Classification acc. to directive 93/42/EEC	II a

Special features

- Xenon technology provides a very high light intensity and ensures an optimum color reproduction of the camera due to the Xenon color temperature of 6.000 K (daylight)
- Our light source sets new standards regarding the operating noise due to the integrated special "whisper ventilators"
- The light source is extremely easy to use
- The light source design is compact and light
- The light intensity is continuously adjustable
- The life time of Xenon lamps is much longer compared to halogen lamps – guaranteed
- The light source is fully compatible to light guide cables of other make by using suitable adapters



Xenon Lichtquelle

AXeL 180

OP930

System	Xenon
Integrierter Lichtleitkabel-Anschluss	Aesculap / Storz
Integrierte Ersatzlampe	Nein
Lampenleistung	180 W
Lampenspannung	15 V / 12 A
Lampenlebensdauer	> 500 Stunden
Lichtintensität regelbar	Stufenlos
Farbtemperatur	6000 K
Netzspannung	100-240 V AC, 50/60Hz
Maximale Leistungsaufnahme	240 VA
Abmessungen (B x H x T)	305 x 125 x 305 mm
Gewicht	6,4 kg
Norm	EN 60601-1, EN 60601-1-2
Schutzklasse nach EN 60601-1	I
Anwendungsteil nach EN 60601-1	BF
Klassifikation nach 93/42/EEC	II a

Besondere Merkmale

- Die Xenon-Technologie liefert eine sehr hohe Lichtintensität und garantiert eine natürliche Farbwiedergabe der Kamera aufgrund der Xenon Farbtemperatur von 6.000 K (Tageslicht)
- Die Lichtquelle setzt neue Maßstäbe beim Arbeitsgeräusch dank der speziell integrierten „Flüsterlüfter"
- Die Lichtquelle ist extrem einfach zu bedienen
- Die Lichtquelle weist sich durch eine kompakte und leichte Bauweise aus
- Die Lichtintensität ist manuell stufenlos regelbar
- Die Lebensdauer von Xenon Lampen ist um ein vielfaches länger als die von Halogen Lampen – garantiert
- Die Lichtquelle ist voll kompatibel zu Lichtleitern anderer Hersteller durch Verwendung bestimmter Adapter

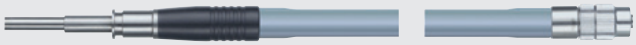


OP931	Xenon replacement bulb 15 V/180 W



Adapter for Xenon light source OP930

OP936	Wolf
OP937	Olympus (Xenon)
OP938	ACMI



Light guide cables, autoclavable, diam. 4.8 mm

OP906	Length: 180 cm
OP913	Length: 250 cm
OP914	Length: 350 cm



Light guide cables tester

OP917	Measures the light transmission of Aesculap/Storz/Olympus light guide cables up to diam. 6 mm



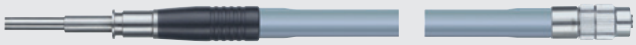
OP931	Xenon Ersatzlampe 15 V / 180 W

Adapter für Xenon Lichtquelle OP930



OP936	Wolf
OP937	Olympus (Xenon)
OP938	ACMI

Lichtleitkabel, autoklavierbar, Ø 4.8 mm



OP906	Länge: 180 cm
OP913	Länge: 250 cm
OP914	Länge: 350 cm

Lichtleitkabeltester



OP917	Misst die Lichttransmission aller Aesculap/ Storz/Olympus Lichtleitkabel bis Ø 6 mm.



Easy-to-use patient documentation system

- Archiving of still images, video sequences and audio data
- Very easy operation via camera head, mouse or optional touch screen monitor
- Can be integrated into any existing endoscopy tower
- Image data storage on DVD/CD-ROM, USB, hard drive or network
- Search function for display of existing patient data
- Equipped with common video input and output types
- Fully network-compatible
- Data printout through local printer/ network printer
- Still images can be added with written comments
- Still images can be extracted out of an existing video
- Optional DICOM 3.0 compatibility

Accessories (to be ordered separately)

PV428	Serial connecting cable from Eddy DVD to PV941 Flat Panel Display, 3 m
PV942	DICOM Upgrade Set
PV963	S-VHS-Connecting cable, 2 m
PV968	Remote control cable (for PV440 only), 2.0 m 3.5 mm/3.5 mm Stereo Mini Jack

Digital Documentation System

Eddy DVD

PV820

DVD System	DVD-R/-RW; DVD+R/+RW
Color System	PAL, NTSC
Still image format	JPEG, Bitmap
Video format	MPEG-2
Number of MPEG-2 compression rates	3 (high quality, standard, long play)
Capturing of video sequence	On hard drive, DVD/CD, USB or network
Capturing still images during video recording	Yes
Video Signal Inputs	1 x S-VHS
Video Signal Outputs	1 x DVI-I 1 x S-VHS
Other outputs	1 x RJ45 for Network 1 x Remote function 4 x USB 2 x RS232 (9 pin D-sub)
System	Intel Prozessor 512 MB RAM
Networkable via Ethernet Interface	Yes
Operation via camera head, mouse or touch screen	Yes
Can be integrated into any endoscopy tower	Yes
Hard drive capacity	80 GB
Operating System	Windows XP
Power Supply	100-240V AC, 50-60 Hz
Maximum Power Consumption	80 VA
Dimensions (w x h x d)	305 x 125 x 305 mm
Weight	8 kg
Tested acc. to norm	EN 60601-1, EN 60601-1-2
Safety Class acc. to EN 60601-1	I
Classification acc. to directive 93/42/EEC	I



Extrem einfach zu bedienendes Patienten-dokumentationssystem

- Dokumentation von Einzelbildern, Video-sequenzen und Audiodaten (Video)
- Einfachste Bedienung alternativ über: Kamerakopf, Maus, Tastatur, Touch Screen Monitor
- Integrierbar in jede vorhandene Endoskopie-Einheit
- Bilddatenspeicherung auf DVD/CD-ROM, USB, Festplatte oder Netzwerk
- Suchfunktion zum Anzeigen von vorhandenen Patientendaten
- S-VHS Video Ein- und Ausgänge vorhanden
- Netzwerkfähig
- Ausdruck OP-Bericht über lokalen Farbdrucker/ Netzwerkdrucker
- Einzelbilder können mit Text kommentiert werden
- Aus bestehendem Video können nachträglich Einzelbilder extrahiert werden
- Optionale DICOM 3.0 Kompatibilität

Zubehör (extra zu bestellen)

PV428	Serielles Verbindungskabel von Eddy DVD zu PV941 Touchscreen Monitor, 3 m
PV942	DICOM Upgrade Set
PV963	S-VHS Anschlusskabel, 2 m
PV968	Fernsteuerkabel (nur für PV440), 2 m, 3.5 mm / 3.5 mm Stereo Mini-Anschluss

Digitales Dokumentationssystem

Eddy DVD

PV820

DVD System	DVD-R/-RW; DVD+R/+RW
Farbsystem	PAL/NTSC
Bildformate Standbilder	JPEG, Bitmap
Bildformate Videosequenz	MPEG-2
Anzahl der MPEG-2 Kompressionsraten	3 (high quality, standard, long play)
Speicherung Videosequenz	Auf Netzwerk, Festplatte oder DVD/CD wählbar
Standbildspeicherung während Videoaufzeichnung	Ja
Videosignal Eingänge	1 x S-VHS
Videosignal Ausgänge	1x DVI-I 1x S-VHS
Weitere Ausgänge	1x RJ45 für Netzwerk 1x Remotesteuerung 4x USB 2 x RS232 parallel (9 pin D-sub)
System	Intel Prozessor 512 MB RAM
Netzwerkfähig über Ethernet 100/10 Base-TX-Schnittstelle	Ja
Bedienung über Kamerakopf, Maus, Touchscreen, Tastatur	Ja
Herstellerunabhängig integrierbar	Ja
Festplattenkapazität	80 GB
Betriebssystem	Windows XP
Netzspannung	100-240V AC, 50/60 Hz
Maximale Leistungsaufnahme	80 VA
Abmessung (B x H x T)	305 x 125 x 305 mm
Gewicht	8 kg
Norm	EN 60601-1, EN 60601-1-2
Schutzklasse nach EN 60601-1	I
Klassifikation nach 93/42/EEC	I

PV941 **15" Flat panel display "Touch Screen" PAL/NTSC**



Technical data

Screen size	15" (38 cm)
Resolution (Pixel)	1024 x 768 (XGA)
Weight	4.3 kg
Dimensions (w x h x d)	387 x 301 x 81 mm
Menu control	7 languages
Video Signal inputs/outputs	DVI-I (analog and digital VGA) SDI 1x In/1x Out S-VHS 1x In/1x Out RS 232 (9 pin D-sub) 12 V Power Input

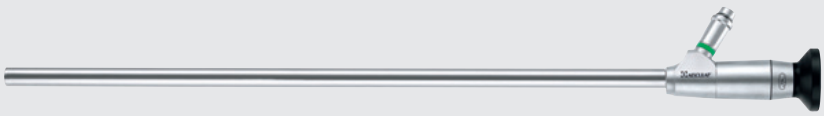
Additional accessories

PV875 Articulating arm for adaptation to Aesculap trolley, small

PV885 Articulating arm for adaptation to Aesculap trolley, large

PV918 Base for flat panel display PV941

Full HD Endoscopes



	Direction of view	Diam.	Length
PE889A	0°	10 mm	33 mm
PE909A	30°	10 mm	33 mm
PE969A	45°	10 mm	33 mm

- autoclavable up to 134°C, 2 bar
- Full screen image
- Integrated rod lens system
- Steris/Sterrad compatible

PV941 15" Flachbild Monitor "Touch Screen" PAL/NTSC



Technische Daten

Größe	15" (38 cm)
Auflösung (Pixel)	1024 x 768 (XGA)
Gewicht	4,3 kg
Maße (B x H x T)	387 x 301 x 81 mm
Menüsteuerung	7-sprachig
Video Signale Eingänge/Ausgänge	DVI-I (analog und digital VGA) SDI 1x In/1x Out S-VHS 1x In/1x Out RS 232 (9 pin D-sub) 12 V Power Input

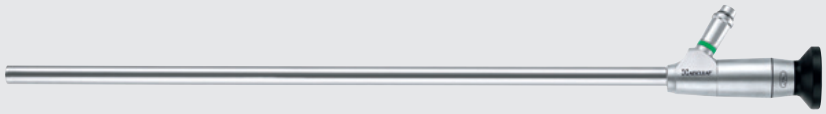
Weiteres Zubehör

PV875 Verlängerungsarm zur Adaption an Aesculap Endoskopiewagen, kurz

PV885 Verlängerungsarm zur Adaption an Aesculap Endoskopiewagen, lang

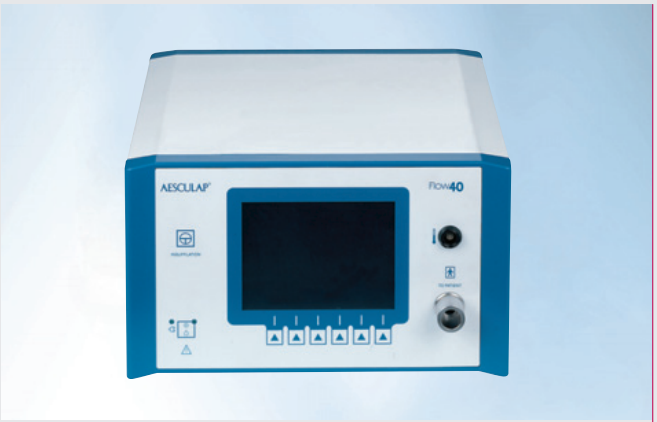
PV918 Standfuß für Flachbildschirm PV941

Full HD Endoskope



	Blickrichtung	Durchmesser	Länge
PE889A	0°	10 mm	33 mm
PE909A	30°	10 mm	33 mm
PE969A	45°	10 mm	33 mm

- Autoklavierbar bis 134°C, 2 bar
- Vollbild-Wiedergabe
- Integriertes Stablinsen-System
- Steris/Sterrad-kompatibel



CO_2 40 litre Insufflator

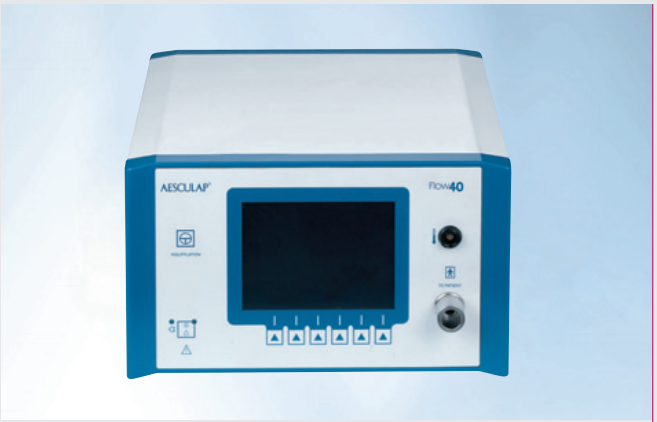
Flow40

PG080

Insufflation medium	Pure medical CO_2 gas
Maximum gas flow	40 l/min.
Pressure range	1 - 30 mm Hg
Integrated gas heating system	Yes
Automatic gas venting system	Yes (optional)
Gas connector	US
User menu	5 languages
Power Supply	100-240V AC, 50-60 Hz
Dimensions (w x h x d)	305 x 185 x 340 mm
Weight	11 kg
Maximum Power Consumption	125 VA
Tested acc. to norm	EN 60601-1, EN 60601-1-2
Safety Class acc. to EN 60601-1	I
Protection level acc. to EN 60601-1	BF
Classification acc. to directive 93/42/EEC	IIa

High-flow insufflator with central info display

- With integrated gas preheating
- Automatic overpressure gas release
- Update-enabled through interface
- Intuitive and simple operation
- Gas connection to gas cylinder or central supply
- Pressure pre-selection in mmHg
- Pre-selectable flow rate
- Display of gas consumption, in litres
- Gas cylinder fill level display
- Info line for error messages
- Paediatric flow rate (from 1 l to 5 l in steps of 0.5 l/min)



CO_2 40 Liter Insufflator

Flow40

PG080

High Flow Insufflator mit zentralem Infodisplay

- Mit integrierter Gasvorwärmung
- Automatischer Gasablass bei Überdruck
- Updatefähig über Schnittstelle
- Intuitive und einfache Bedienung
- Gasanschluß über Flasche oder Zentral-versorgung
- Druckvorwahl in mmHg
- Voreinstellbare Flowrate
- Anzeige des Gasverbrauchs in Liter
- Gasflaschenfüllstandsanzeige
- Infozeile für Fehlermeldungen im Gerätedisplay
- Pädiatrie Flowrate (von 1 l bis 5 l in Schritten von 0,5 l/min)

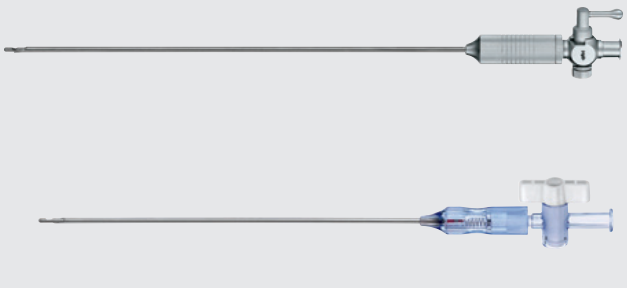
Insufflationsmedium	Medizinisch reines CO_2 Gas
Maximale Gasflussleistung	40 l/min.
Druckbereich	1 - 30 mm Hg
Integrierte Gaserwärmung	Ja
Automatischer Gasablass bei Überdruck	Ja (optional)
Gasanschluss	US
Menüsteuerung	5-sprachig
Netzspannung	100-240V AC, 50/60 Hz
Abmessungen (B x H x T)	305 x 185 x 340 mm
Gewicht	11 kg
Maximale Leistungsaufnahme	125 VA
Norm	EN 60601-1, EN 60601-1-2
Schutzklasse nach EN 60601-1	I
Anwendungsteil nach EN 60601-1	BF
Klassifikation nach 93/42/EEC	II a



Accessories for Flow40 (to be ordered separately)

PG003	VERESS Cannula, length 100 mm, diam. 2.1 mm
PG008	VERESS Cannula, length 120 mm, diam. 2.1 mm
PG011	VERESS Cannula, length 150 mm, diam. 2.1 mm
EJ995	Disposable VERESS Cannula, length 120 mm, pack of 20 pcs.
EJ996	Disposable VERESS Cannula, length 150 mm, pack of 20 pcs.
PG086	High pressure tube, 1 m Unit side US Connector, Bottle side DIN Connector
PG087	High pressure tube, 1 m Unit side US Connector, Bottle side ISO Connector
PG088	High pressure tube, 1 m Unit side US Connector, Bottle side PIN Connector
PG083	NIST Connector for central gas supply
PG084	High pressure tube for central gas supply, 3 m
PG085	High pressure tube for central gas supply, 5 m
PG012	Disposable tube set incl. CO_2 filter, pack of 10 pcs.
PG014	Reusable silicone tube without gas warming (20 x autoclavable)
PG082	Reusable silicone tube with gas warming (100 x autoclavable)
PG019	Disposable CO_2 filter, pack of 25 pcs.

Zubehör für Flow40 (extra zu bestellen)



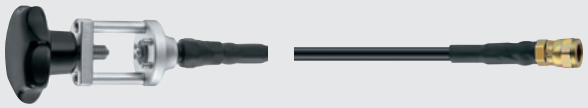
PG003	VERESS-Kanüle, Länge 100 mm, Ø 2,1 mm
PG008	VERESS-Kanüle, Länge 120 mm, Ø 2,1 mm
PG011	VERESS-Kanüle, Länge 150 mm, Ø 2,1 mm
EJ995	VERESS-Kanüle, Länge 120 mm, Einmalgebrauch, Pack à 20 Stk.
EJ996	VERESS-Kanüle, Länge 150 mm, Einmalgebrauch, Pack à 20 Stk.



PG086	Hochdruckschlauch, 1 m Geräteseitig US Anschluss, Flaschenseitig DIN Anschluss



PG087	Hochdruckschlauch, 1 m Geräteseitig US Anschluss, Flaschenseitig ISO Anschluss



PG088	Hochdruckschlauch, 1 m Geräteseitig US Anschluss, Flaschenseitig PIN Anschluss



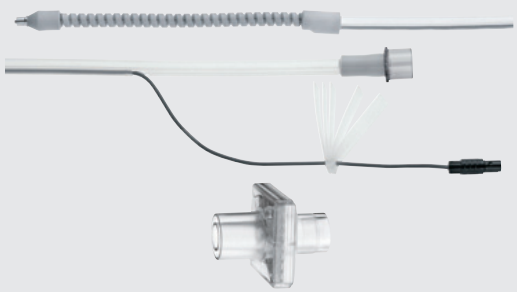
PG083	NIST Anschluß für zentrale Gasversorgung



PG084	NIST Hochdruckschlauch für zentrale Gasversorgung, 3 m
PG085	NIST Hochdruckschlauch für zentrale Gasversorgung, 5 m



PG012	Einmalschlauchset inkl. CO_2 Filter, Pack à 10 Stück
PG014	Wiederverwendbarer Silikonschlauch ohne Gasvorwärmung (20 x autoklavierbar)



PG082	Wiederverwendbarer Silikonschlauch mit Gasvorwärmung (100 x autoklavierbar)
PG019	Einmal CO_2 Filter zum Einmalgebrauch, Pack à 25 Stück



Irrigation Pump for Laparoscopy

Fluid3

PG070

Maximum Irrigation Rate	1.8 l/min.
Maximum Pump Capacity	400 mm Hg
Connection of pneumatic footcontrol	Yes
Dimensions (w x h x d)	143 x 317 x 170 mm
Weight	5.5 kg
Selectable Power Supply	100V AC/115V AC/230V AC, 50-60 Hz
Maximum Power Consumption	36 VA
Tested acc. to norm	EN 60601-1, EN 60601-1-2
Safety Class acc. to EN 60601-1	I
Protection level acc. to EN 60601-1	BF
Classification acc. to directive 93/42/EEC	II a

Powerful irrigation pump

- Very easy to operate system
- Pressure-controlled pump
- Confusion-proof installation of the irrigation tube
- Reusable and single-use tubing sets available
- Aspiration through conventional O.R. suction device
- Round-tube or standard-rail adaptation of the pump to the equipment cart



Accessories (to be ordered separately)

PG052	Reusable tube set (20 x autoclavable)
PG072SU	Disposable inflow tubing set, with Care Lock connection (pack of 10)
PG073SU	Disposable inflow tubing set, with insert pins (pack of 10)
PG071	Foot switch
PG076	Fluid 3 pole clamp
PG078	Fluid 3 holding rail
PG027R	Suction-/Irrigation Instrument, diam. 5 mm, 330 mm long



Spülpumpe für die Laparoskopie

Fluid3

PG070

Maximale Spülleistung	1,8 l/min.
Maximaler Pumpdruck	400 mm Hg
Anschluß für pneumatischen Fußschalter	Ja
Abmessungen (B x H x T)	143 x 317 x 170mm
Gewicht	5,5 kg
Netzspannung wählbar	100V AC/115V AC/230V AC, 50-60 Hz
Maximale Leistungsaufnahme	36 VA
Norm	EN 60601-1, EN 60601-1-2
Schutzklasse nach EN 60601-1	I
Anwendungsteil nach EN 60601-1	BF
Klassifikation nach 93/42/EEC	II a

Leistungsstarke Spülpumpe

- Sehr einfach zu bedienendes System
- Druckgesteuerte Pumpe
- Verwechslungssicheres Einlegen des Spülschlauchs
- Sowohl wiederverwendbare als auch Einmal-Schlauchsets einsetzbar
- Absaugung über konventionellen OP-Sauger
- Adaption der Pumpe am Gerätewagen über Rundrohrhalterung oder Normschiene



Zubehör (extra zu bestellen)

PG052	Wiederverwendbares Schlauchset (20 x autoklavierbar)
PG072SU	Einmalschlauchset mit Druck-kammern, mit Care-Lock (Pack á 10 Stück)
PG073SU	Einmalschlauchset mit Druck-kammern, mit Einstechdorn (Pack á 10 Stück)
PG071	Fußschalter
PG076	Fluid 3 Halterung für Rundrohrhalterung
PG078	Fluid 3 Halterung für Normschiene
PG027R	Saug-/Spülinstrument, Ø 5 mm, 330 mm lang



- Sturdy and non-tilting construction
- Modular trolley design
- Special antistatic castors
- Optimum stability for units
- Rubber bumpers on the base frame
- Easy cleaning and disinfection
- Smart cable management

PV880	**Trolley „Metro Junior“**
PV881	**Trolley „Metro Junior IT“** - with integrated Isolation Transformer (1200 VA) - with integrated system monitoring
PV882	CO_2 gas bottle holder bottle diameter 80-150 mm
PV883	Irrigator stand, one-hand height adjustment, 90 cm total height
PV888	Lateral fixture with round tube
PG077	Standard rail, working length 300 mm
PV884	Camera holder for all Chip cameras
PV893	Power plug Euro
PV894	Power plug UK/Ireland
PV895	Power plug USA/Canada/Japan

Technical data PV880 / PV881

Weight	76 / 89 kg
Dimensions (w x h x d)	835 x 1580 x 750 mm
Max. load capacity of cart	210 kg
Standing Area (w x d)	560 x 440 mm
Max. load capacity of shelf	40 kg
Standard	EN 60601-1 EN 60601-1-1 EN 60601-1-2
Safety Class acc. to EN 60601-1	I
Classification acc. to norm 93/42/EEC	I



- Hohe Stabilität und Kippsicherheit
- Modularer Wagenaufbau
- Spezielle Antistatik-Rollen
- Optimale Standfestigkeit der Geräte
- Gummikanten am Grundgestell
- Einfache Reinigung und Desinfektion
- Cleveres Kabelmanagement

PV880 **Endoskopiewagen „Metro Junior"**

PV881 **Endoskopiewagen „Metro Junior IT"**

- mit integriertem Isolationstransformator (1200 VA)
- mit integriertem System Monitoring (Isolationswächter)

PV882 CO_2 Gasflaschenhalterung
Flaschendurchmesser 80-150 mm

PV883 Infusionsflaschenhalter, Einhandhöhen-Verstellung, 90 cm Gesamthöhe

PV888 Seitliche Halterung mit Rundrohr

PG077 Normschiene, Nutzlänge 300 mm

PV884 Kamerahalterung für alle Kameras

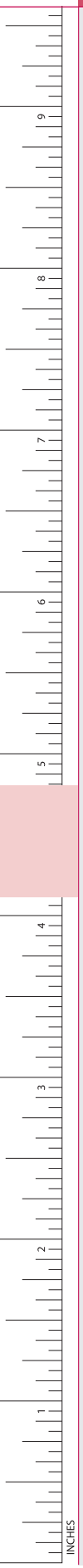
PV893 Netzkabel Euro

PV894 Netzkabel UK/Irland

PV895 Netzkabel USA/Kanada/Japan

Technische Daten PV880 / PV881

Gewicht	76 / 89 kg
Maße (B x H x T)	835 x 1580 x 750 mm
Maximalbeladung Wagen	210 kg
Tischplatte (B x T)	560 x 440 mm
Max.-Beladung Tischplatte	40 kg
Normen	EN 60601-1 EN 60601-1-1 EN 60601-1-2
Sicherheitsklasse nach EN 60601-1	I
Klassifizierung nach Norm 93/42/EEC	I


INCHES
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3
4
5
6
7
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HF



Electrosurgery
Elektrochirurgie

Bipolar instruments for open surgery

Abdominal Aortic Aneurysm

1. Skin incision

The assistant surgeon uses the BipoJet® forceps (Partially insulated tips) for hemostasis. Advantage: saves time, because the monopolar knife can be used in parallel.

2. Dissecting the omentum

Dissection with the BipoJet® scissors, with additional hemostasis using the BipoJet® clamp. Advantage: simultaneous dissection and coagulation with the BipoJet® scissors saves time. Using the BipoJet® clamp to coagulate delicate vessels over a large area provides a clearer overview.

3. Mobilizing the intestine

Dissection with the BipoJet® scissors, with additional hemostasis using the BipoJet® clamp and forceps. Advantage: simultaneous dissection and coagulation with the BipoJet® scissors saves time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet® forceps for small areas or the BipoJet® clamp for large areas.

4. Coagulation of lymphatic vessels

Dissection with the BipoJet® scissors, hemostasis with the BipoJet® forceps and clamp for coagulation of blood and lymph vessels. Advantage: simultaneous dissection and coagulation with the BipoJet® scissors saves time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet® forceps for small areas or the BipoJet® clamp for large areas.

5. Dissecting of the Aneurysma

Dissection with the BipoJet® scissors, hemostasis with the BipoJet® forceps and clamp for coagulation of blood and lymph vessels. Due to the ceramics insulation of the BipoJet® forceps and clamps coagulation is save even close to vessel walls and other sensitive anatomical structures.

Recommended Instruments

BC687R	Bipolar dissecting scissors 230 mm, 9"
BC688R	Bipolar dissecting scissors fine tip 230 mm, 9"
BC689R	Bipolar dissecting scissors 280 mm, 11"
BH687R	Bipolar clamp 230 mm, 9"
BH689R	Bipolar clamp 280 mm, 11"
GN086	Hand switch for bipolar clamp
GK883R	Bipolar forceps fully insulated 230 mm, 9"
GK885R	Bipolar forceps fully insulated 300 mm, 12"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"
GK894R	Bipolar forceps partially insulated 250 mm, 10"









Bipolare Instrumente für die offene Chirurgie

Abdominales Aortenaneurysma

1. Hautschnitt

Koagulation von Blutungen mit der BipoJet® Pinzette (teilisoliert) durch die Assistenz. Vorteil: Zeitersparnis, da das monopolare Messer parallel weiter verwendet werden kann.

2. Präparieren des Netzes

Präparieren mit der BipoJet® Schere, zusätzlich Blutungsstillung mit der BipoJet® Klemme. Vorteil: Zeitersparnis durch gleichzeitiges Schneiden und Koagulieren mit der BipoJet® Schere. Verbesserte Übersicht durch großflächige Koagulation von feinen Gefäßen mit der BipoJet® Klemme.

3. Mobilisation des Darms

Präparieren mit der BipoJet® Schere, zusätzlich Blutungsstillung mit der BipoJet® Klemme und Pinzette. Vorteil: Zeitersparnis durch gleichzeitiges Schneiden und Koagulieren mit der BipoJet® Schere. Präzise Koagulation auch nahe an Gefäßen oder der Darmwand mit der BipoJet® Pinzette (kleinflächig) oder der BipoJet® Klemme (großflächig).

4. Koagulation von Lymphgefäßen

Präparieren mit der BipoJet® Schere, Blutungsstillung mit der BipoJet® Pinzette und –Klemme zur Koagulation von Blut- und Lymphgefäßen. Vorteil: Zeitersparnis durch gleichzeitiges Schneiden und Koagulieren mit der BipoJet® Schere. Präzise Koagulation auch nahe an Gefäßen oder der Darmwand mit der BipoJet® Pinzette (kleinflächig) oder der BipoJet® Klemme (großflächig).

5. Präparieren des Aneurysmas

Präparieren mit der BipoJet® Schere, Blutungsstillung mit der BipoJet® Pinzette und –Klemme zur Koagulation von Blut- und Lymphgefäßen. Dank der Keramikisolation der BipoJet® Pinzetten und Klemmen kann auch nahe an empfindlichen anatomischen Strukturen koaguliert werden.

Empfohlene Instrumente

BC687R	Bipolare Präparierschere 230 mm
BC688R	Bipolare Präparierschere feine Spitze 230 mm
BC689R	Bipolare Präparierschere 280 mm
BH687R	Bipolare Klemme 230 mm
BH689R	Bipolare Klemme 280 mm
GN086	Handschalter zur bipolaren Klemme
GK883R	Bipolare Pinzette vollisoliert 230 mm
GK885R	Bipolare Pinzette vollisoliert 300 mm
GK891R	Bipolare Pinzette teilisoliert 160 mm
GK894R	Bipolare Pinzette teilisoliert 250 mm







Bipolar instruments for open surgery



Carotis operations

1. Skin incision

The assistant surgeon uses the BipoJet® forceps (Partially insulated tips) for hemostasis. Advantage: saves time, because the monopolar knife can be used in parallel.

2. Dissecting

Dissection with the delicate BipoJet® scissors, with additional hemostasis using the BipoJet® forceps and clamp. Advantage: simultaneous dissection and coagulation with the BipoJet® scissors saves time. Using the BipoJet® forceps to coagulate delicate vessels and using the BipoJet® clamp to coagulate lymphatic vessels. Due to the ceramics insulation of the BipoJet® forceps and clamps coagulation is save even close to vessel walls and other sensitive anatomical structures.

Recommended Instruments

BC686R	Bipolar dissecting scissors fine tip 180 mm, 7"
BC693R	Fine bipolar dissecting scissors 160 mm, 6 1/4"
BC696R	STEVENS bipolar dissecting scissors 160 mm, 6 1/4"
BH686R	Bipolar clamp 180 mm, 7"
GN086	Hand switch for bipolar clamp
GK881R	Bipolar forceps fully insulated 160 mm, 6 1/4"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"

Bipolare Instrumente für die offene Chirurgie



Carotis Eingriffe

1. Hautschnitt

Koagulation von Blutungen mit der BipoJet® Pinzette (teilisoliert) durch die Assistenz. Vorteil: Zeitersparnis, da das monopolare Messer parallel weiter verwendet werden kann.

2. Präparieren

Präparieren mit der BipoJet® Schere, zusätzlich Blutungsstillung mit der BipoJet® Klemme. Vorteil: Zeitersparnis durch gleichzeitiges Schneiden und Koagulieren mit der BipoJet® Schere. Koagulation von feinen Gefäßen mit der BipoJet® Pinzette und Koagulation von Lymphgefäßen mit der BipoJet® Klemme. Dank der Keramikisolation der BipoJet® Pinzetten und Klemmen kann auch nahe an empfindlichen anatomischen Strukturen koaguliert werden.

Empfohlene Instrumente

BC686R	Bipolare Präparierschere feine Spitze 180 mm
BC693R	Feine bipolare Präparierschere 160 mm
BC696R	STEVENS bipolare Präparierschere 160 mm
BH686R	Bipolare Klemme 180 mm
GN086	Handschalter zur bipolaren Klemme
GK881R	Bipolare Pinzette vollisoliert 160 mm
GK891R	Bipolare Pinzette teilisoliert 160 mm

Bipolar instruments for open surgery

Operations in the groin

1. Skin incision

The assistant surgeon uses the BipoJet® forceps (Partially insulated tips) for hemostasis. Advantage: saves time, because the monopolar knife can be used in parallel.

2. Dissecting

Dissection with the delicate BipoJet® scissors, with additional hemostasis using the BipoJet® forceps and clamp. Advantage: simultaneous dissection and coagulation with the BipoJet® scissors saves time. Using the BipoJet® forceps to coagulate delicate vessels and using the BipoJet® clamp to coagulate lymphatic vessels. Due to the ceramics insulation of the BipoJet® forceps and clamps coagulation is save even close to vessel walls and other sensitive anatomical structures.

Recommended Instruments

BC686R	Bipolar dissecting scissors fine tip 180 mm, 7"
BH686R	Bipolar clamp 180 mm, 7"
GN086	Hand switch for bipolar clamp
GK881R	Bipolar forceps fully insulated 160 mm, 6 1/4"
GK882R	Bipolar forceps fully insulated 200 mm, 8"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"



Bipolare Instrumente für die offene Chirurgie

Eingriffe in der Leiste

1. Hautschnitt

Koagulation von Blutungen mit der BipoJet® Pinzette (teilisoliert) durch die Assistenz. Vorteil: Zeitersparnis, da das monopolare Messer parallel weiter verwendet werden kann.

2. Präparieren

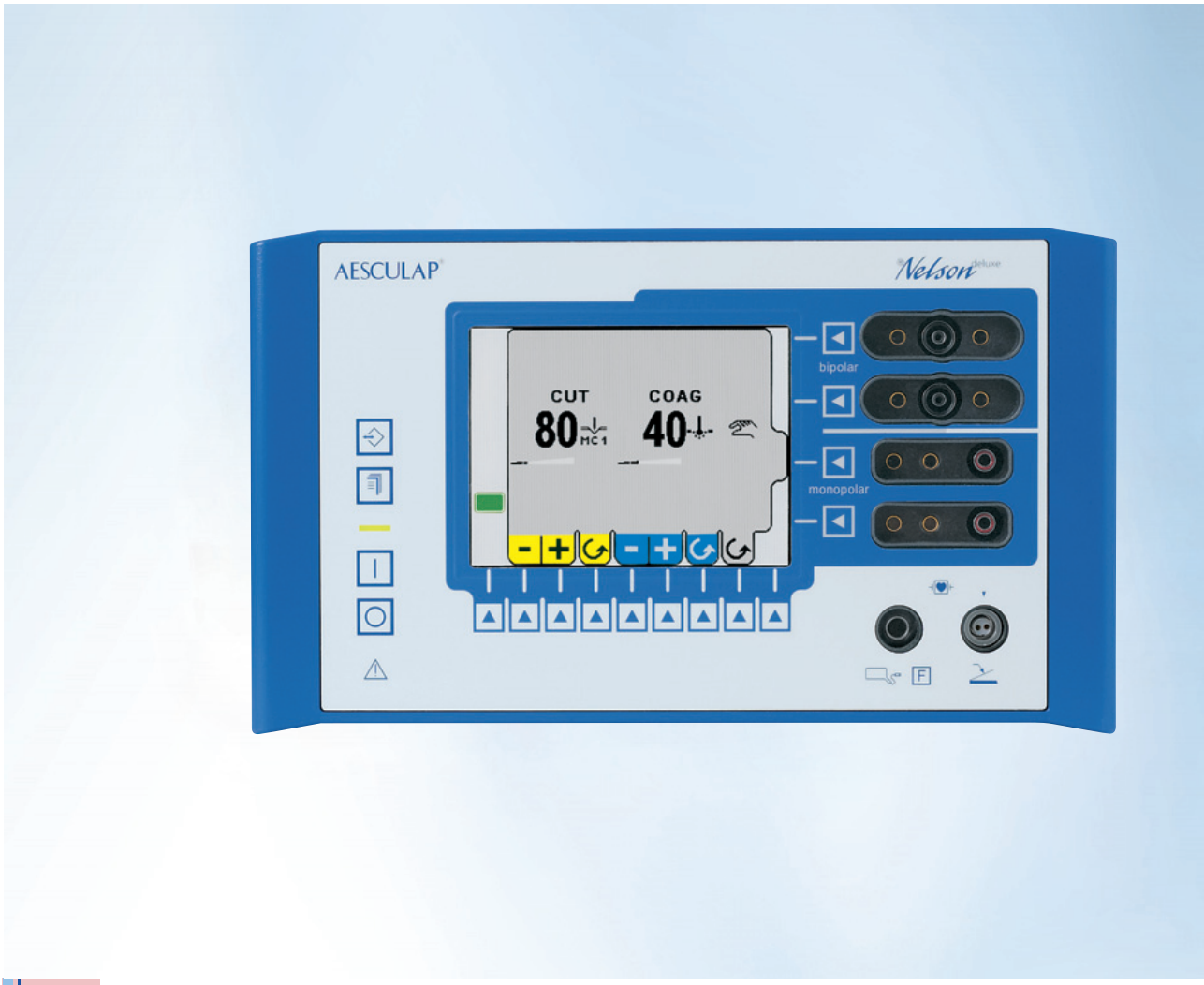
Präparieren mit der BipoJet® Schere, zusätzlich Blutungsstillung mit der BipoJet® Klemme. Vorteil: Zeitersparnis durch gleichzeitiges Schneiden und Koagulieren mit der BipoJet® Schere. Koagulation von feinen Gefäßen mit der BipoJet® Pinzette und Koagulation von Lymphgefäßen mit der BipoJet® Klemme. Dank der Keramikisolation der BipoJet® Pinzetten und Klemmen kann auch nahe an empfindlichen anatomischen Strukturen koaguliert werden.

Empfohlene Instrumente

BC686R	Bipolare Präparierschere feine Spitze 180 mm
BH686R	Bipolare Klemme 180 mm
GN086	Handschalter zur bipolaren Klemme
GK881R	Bipolare Pinzette vollisoliert 160 mm
GK882R	Bipolare Pinzette vollisoliert 200 mm
GK891R	Bipolare Pinzette teilisoliert 160 mm



Nelson deluxe – Electrosurgery the innovative way
Nelson deluxe – Innovative Elektrochirurgie



Feature

- Starts with the push of a button
- Individually programmable (e.g. according to indication or surgeon)
- 14 separate memories
- Innovative clear information display in color
- Monopolar and bipolar cutting and coagulating
- Freely selectable cutting quality
- All the safety features you could expect from a best in class device
- Nelson deluxe automatically recognizes coded instruments

Merkmale

- Auf Knopfdruck startklar
- Individuell programmierbar z. B. nach Indikation oder Chirurgen
- 14 Speicherplätze
- Innovatives übersichtliches Farbinformationsdisplay
- Monopolares und bipolares Schneiden und Koagulieren
- Schnittqualitäten frei wählbar
- Alle Sicherheitsvorkehrungen, die sie von einem Spitzengerät erwarten können
- Codierte Instrumente erkennt Nelson deluxe sofort

®Nelson deluxe

Electrosurgical unit featuring 2 monopolar and 2 bipolar outputs.
Elektrochirurgie-Gerät, 2 monopolare und 2 bipolare Ausgänge.

Mains supply Netzanschluss	100 - 240 V / 50 / 60 Hz

Maximum Output Power
Maximale Ausgangsleistung

Monopolar	**Watt**	**Ohm**
POWERCUT 1	300	500
POWERCUT 2	250	500
POWERCUT 3	200	500
POWERCUT 4	150	500
MICROCUT 1 + 2	300	500
SEALCUT 100	150	
SOFTCOAG	100	300
CONTACTCOAG	120	500
FORCED COAG	120	1000
SPRAYCOAG	120	800

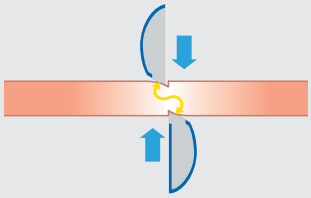
Bipolar	**Watt**	**Ohm**
Bicut 1	100	600
Bicut 2	100	100
Coag	100	100



For further details see brochure **C30481.**

Weitere Informationen finden Sie
in unserem Prospekt **C30481.**

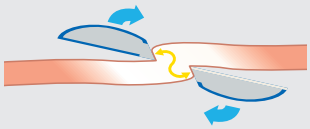
- **Parallel cutting and coagulating**
- Koagulation parallel zum Schneiden



Parallel cutting and coagulation of the incised tissue: The tissue is cut while coagulation mode of the HF generator is activated.

Schneiden und parallele Koagulation des durchtrennten Gewebes. Hierbei wird das Gewebe bei gleichzeitiger Betätigung des Koagulationsmodus durchtrennt.

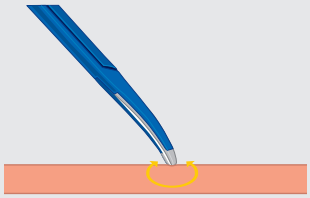
- **Precoagulation**
- Vorkoagulation



Prior to performance of the cut, the scissors are rotated so as to coagulate more robust tissue and larger blood vessels.

Drehen der Schere zur Koagulation stärkerer Gewebestrukturen oder größerer Gefäße vor dem Durchtrennen.

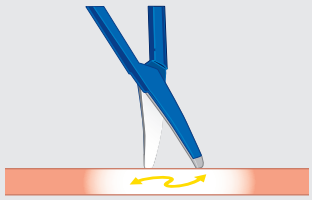
- **Pinpoint coagulation**
- Punktkoagulation



Bleeding can be precisely controlled in localized areas with the scissors tip closed or slightly open.

Mit geschlossenen oder leicht geöffneten Scherenblättern kann eine eng begrenzte punktuelle Koagulation durchgeführt werden.

- **Surface coagulation**
- Flächenkoagulation



Surface coagulation performed between the open blades of the scissors.

Bei größeren oberflächlichen Blutungen kann zwischen den geöffneten Scherenblättern eine größere Fläche koaguliert werden.









METZENBAUM
BC691R
extra fine tip
extra feine Spitze
120 mm, 4 3/4"

METZENBAUM
BC692R
extra fine tip
extra feine Spitze
140 mm, 5 1/2"

METZENBAUM
BC693R
extra fine tip
extra feine Spitze
160 mm, 6 1/4



STEVENS
BC694R
Tenotomy tip
Tenotomie Spitze
120 mm, 4 3/4"

STEVENS
BC695R
Tenotomy tip
Tenotomie Spitze
140 mm, 5 1/2"

STEVENS
BC696R
Tenotomy tip
Tenotomie Spitze
160 mm, 6 1/4"



- **Anti-twist-cable**
  The BipoJet® cable and jack are designed and constructed in such a way that the cable cannot become twisted. This means that the scissors can still be opened even after being rotated repeatedly.
- **Anti-Verdreh-Kabel**
  Kabel und Anschlüsse sind so konstruiert, dass sich das Kabel nicht verdrehen kann. Dadurch ist gewährleistet, dass die Schere auch nach mehrmaligem Rotieren noch geöffnet werden kann.









METZENBAUM
BC685R
Standard tip
Standard-Spitze
180 mm, 7"

METZENBAUM
BC687R
Standard tip
Standard-Spitze
230 mm, 9"

METZENBAUM
BC689R
Standard tip
Standard-Spitze
280 mm, 11"



METZENBAUM
BC686R
fine tip
feine Spitze
180 mm, 7"

METZENBAUM
BC688R
fine tip
feine Spitze
230 mm, 9"

METZENBAUM
BC690R
fine tip
feine Spitze
280 mm,11"



BipoJet® Clamps

- Complete ceramic insulation
  - Coagulation only takes place between the jaws
  - Ceramic teeth improve the grasping properties in the jaw

- FAST
  Coagulation over a large area for each dissection step
- EASY
  Can be used with any HF generator
- PRECISE
  Defined coagulation zone
- SAFE
  Low thermal spread during coagulation

BipoJet® Klemmen

- Vollständige Keramikisolation
  - Die Koagulation findet nur zwischen den Maulteilen statt
  - Keramikzähne im Maul verbessern die Fasseigenschaften

- SCHNELL
  Großflächiges Koagulieren bei jedem Präparierschritt
- EINFACH
  Einsetzbar mit jedem HF-Gerät
- PRÄZISE
  Definierte Koagulationszone
- SICHER
  Enge Begrenzung der thermischen Ausdehnung bei der Koagulation





BH686R
180 mm, 7"



BH687R
230 mm, 9"



BH689R
280 mm, 11"



GN310

Nelson BiBox – Bipolar switch box

- The Nelson BiBox acts as an adapter, control and distributor unit for operating Aesculap bipolar hand switches with HF generators from other manufacturers (e.g. Erbe, Valleylab, Martin). The BiBox converts the Aesculap hand switch signal into a foot switch signal that the different HF generator can recognize. In addition, the single bipolar output on the HF device is distributed across the double bipolar HF connections of the Nelson BiBox, making two bipolar connections available with the Nelson BiBox (e.g. for a BipoJet® clamp and a BipoJet® scissors).
- Using the BipoJet® hand switches with other manufacturers' HF generators avoids having to use a foot pedal and thus reduces stumbling.
- You can double the potential of your HF generator by connecting two bipolar instruments to one bipolar output!

Nelson BiBox – Bipolare Schaltbox

- Die Nelson BiBox fungiert als Adapter-, Steuer- und Verteilergerät um Aesculap bipolare Handschalter mit HF Geräten anderer Hersteller (z.B. Erbe, Valleylab, Martin) zu betreiben. Die BiBox wandelt das Aesculap Handschaltersignal in ein Fußschaltersignal um, das der andere HF Generator erkennen kann. Zusätzlich wird der eine bipolare Ausgang des HF Gerätes auf die zwei bipolaren HF Anschlüsse der Nelson BiBox verteilt. Dadurch stehen mit der Nelson BiBox zwei bipolare Anschlüsse (z.B. für BipoJet® Klemme und BipoJet® Schere) zur Verfügung.
- Verwendung der BipoJet® Handschalter auch mit HF-Geräten anderer Hersteller. Reduzieren Sie "Stolperfallen" durch den Verzicht auf Fußschalter.
- Durch Anschluss von zwei bipolaren Instrumenten an einen bipolaren Ausgang verdoppeln Sie das Potential Ihres HF-Gerätes!



Aesculap
Aesculap GN300, Nelson deluxe
GN640 < SN 2000,

Martin MAXIUM, ME411,
Elektrotom 400

Valleylab Force2, Force FX

ERBE series Erbotom ICC
(z. B. ICC350), VIO*

	HF adapter cable HF Adapterkabel	Pedal adapter cable Pedal-Adapterkabel
Aesculap	GN313	GN314
Erbe	GN311	GN312
Martin	GN313	GN318
Valleylab	GN315	GN316

* Additional adapters necessary, please contact your local Aesculap distributor.
* Zusätzliche Adapter notwendig, bitte kontaktieren Sie Ihren Aesculap Händler.

Bipolar hand switches

- Allow the activation of the HF generator without foot switch
- To be used with GN640 Nelson deluxe or with the bipolar switch box GN310

Bipolare Handschalter

- Ermöglichen die Aktivierung des HF Generators ohne Fußschalter
- Verwendbar mit GN640 Nelson deluxe oder der bipolaren Schaltbox GN310



GN084
for BipoJet® scissors
für BipoJet® Schere

GN086
for BipoJet® clamps
für BipoJet® Klemmen

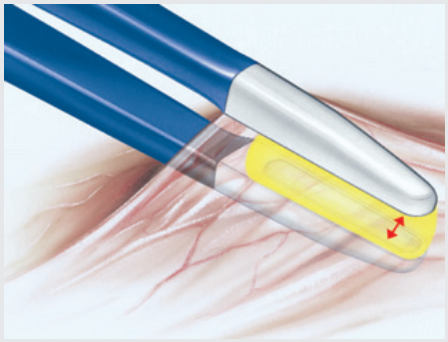
BipoJet® Forceps

- PRECISE
  - Defined coagulation area
    Prevents collateral coagulation.
- SAFE
  - Low temperature range during coagulation
    Coagulation instead of carbonization.
- ANTI-STICKING
  - Reduced tissue adhesion
    Less risk of tearing open coagulated vessels when opening the forceps.

BipoJet® Pinzetten

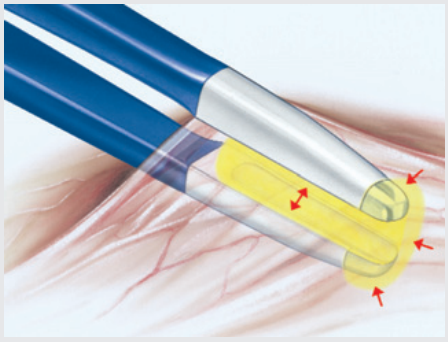
- PRÄZISE
  - Definierte Koagulationsfläche
    Vermeidung von kollateralen Koagulationsschäden.
- SICHER
  - Niedriger Temperaturbereich bei der Koagulation
    Koagulation statt Karbonisation.
- ANTI-STICKING
  - Reduziertes Anhaften von Gewebe
    Reduziertes Riskio, dass Gefäße beim Öffnen der Pinzette wie der aufgerissen werden.

- **Fully insulated tip**
- Vollisolierte Spitze

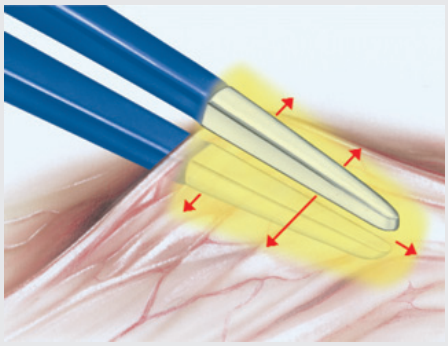


- **BipoJet® forceps with fully insulated tip**
  - Strictly confined coagulation zone.
- BipoJet® Pinzette mit vollisolierter Spitze
  - Eng begrenzte Koagulationszone.

- **Partially insulated tip**
- Teilisolierte Spitze

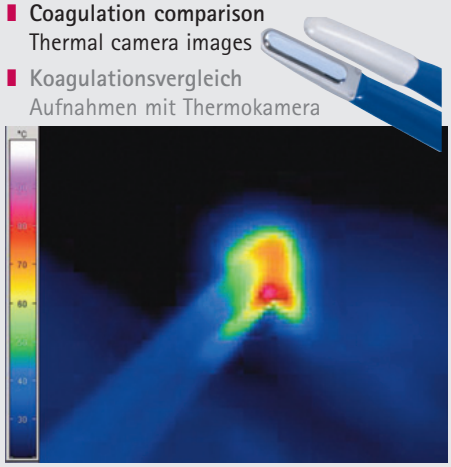


- **BipoJet® forceps with partially insulated tip**
  - Precise and safe, even in cases where the tips of the forceps have to be used for coagulation.
- BipoJet® Pinzette mit teilisolierter Spitze
  - Präzise und sicher, auch in Fällen, in denen mit den Spitzen der Pinzette koaguliert werden soll.

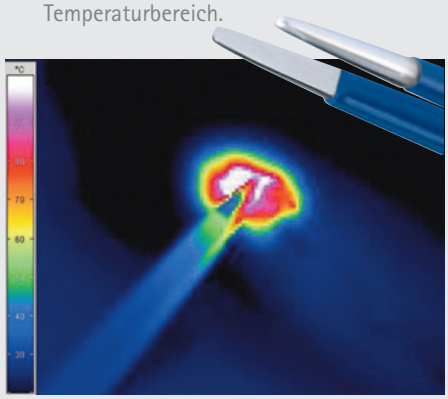


- **Conventional forceps**
  - Extended coagulation zone. Undefined thermal spread.
- Konventionelle Pinzette
  - Ausgedehnte Koagulationszone.

- **Coagulation comparison**
  Thermal camera images
- Koagulationsvergleich
  Aufnahmen mit Thermokamera



- **Ceramic forceps**
  - With its ceramic insulation, the BipoJet® forceps coagulates precisely at low temperature.
- Keramikpinzette
  - Die keramikisolierte BipoJet® Pinzette koaguliert präzise in einem niedrigen Temperaturbereich.



- **Conventional bipolar forceps**
  - Clearly visible are the comparatively high temperatures at the centre, which provoke tissue adhesion, and the coagulation zone, which extends far beyond the forceps.
- Konventionelle bipolare Pinzette
  - Deutlich sichtbar sind die vergleichsweise hohen Temperaturen im Zentrum, welche ein Anhaften von Gewebe begünstigen sowie die sich weit über die Pinzette hinaus ausdehnende Koagulationszone.



Aesculap tab connector
Aesculap Flachstecker



FULLY INSULATED TIP
VOLLISOLIERTE SPITZE



1/2

GK881R
160 mm, 6 1/4"



1/2

GK882R
200 mm, 8"



1/2

GK883R
230 mm, 9"



1/2

GK884R
250 mm, 10"



1/2

GK885R
300 mm, 12"



1/2

GK886R
160 mm, 6 1/4"



1/2

BARRÉ
GK685R
260 mm, 10 1/4"

HF

MILLIMETERS



Aesculap tab connector
Aesculap Flachstecker



PARTIALLY INSULATED TIP
TEILISOLIERTE SPITZE



1/2

GK891R
160 mm, 6 1/4"



1/2

GK892R
200 mm, 8"



1/2

GK893R
230 mm, 9"



1/2

GK894R
250 mm, 10"



1/2

GK895R
300 mm, 12"



1/2

GK896R
160 mm, 6 1/4"

HF



Aesculap round pin connector
Aesculap Rundstecker



GK690R
120 mm, 4 3/4"



GK720R
GK722R
GK720R-GK722R
160 mm, 6 1/4"



GK723R
160 mm, 6 1/4"



GK730R
200 mm, 8"

Wire brush for cleaning coagulation forceps and coagulation electrodes
Drahtbürstchen zum Reinigen von Koagulationspinzetten und Koagulationselektroden



GK299



Euro tab connector
Euro Flachstecker



GK809R
sharp
scharf
125 mm, 5"



GK807R
delicate
fein
175 mm, 7"



GK808R
delicate
fein
220 mm, 8 3/4"



Aesculap tab connector
Aesculap Flachstecker



GK700R
GK701R

GK700R–GK701R
160 mm, 6 1/4"



GK711R
160 mm, 6 1/4"



GK703R
200 mm, 8"



GK713R
200 mm, 8"



Aesculap tab connector
Aesculap Flachstecker



GK595R
120 mm, 4 3/4"



GK596R
145 mm, 5 3/4"



GK597R
110 mm, 4 3/8"



Aesculap tab connector
Aesculap Flachstecker

NON STICKING

Bipolar coagulation forceps with Sintram tips do not stick to coagulated vessels.
Bipolare Koagulationspinzette mit Sintram-Spitzen verhindern das Ankleben der koagulierten Gefäße.



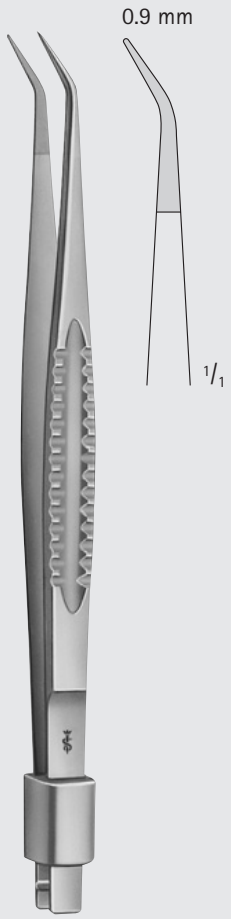
GK604R
160 mm, 6 1/4"



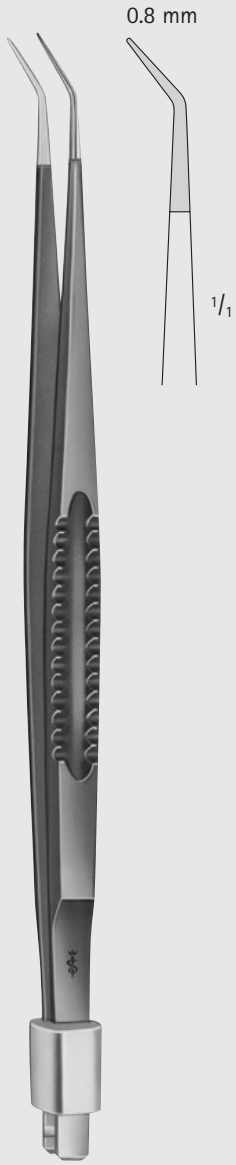
GK605R
185 mm, 7 1/4"



GK606R
200 mm, 8"

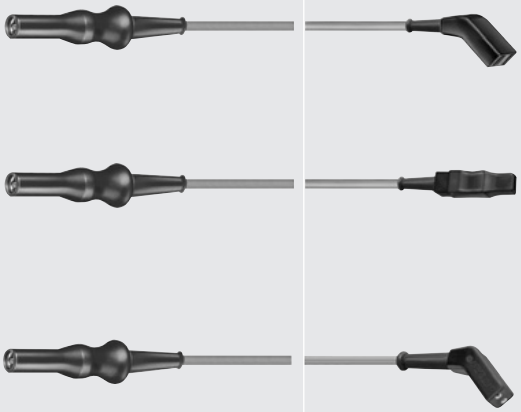
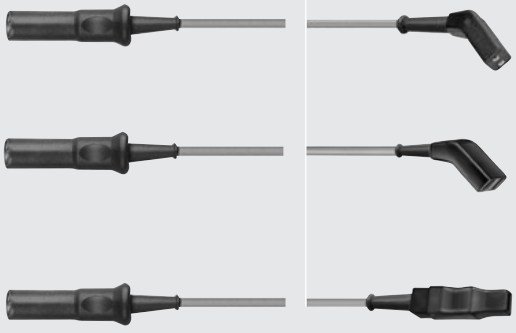


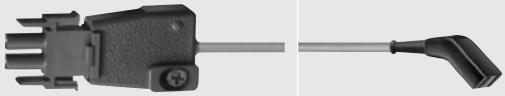
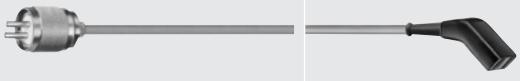
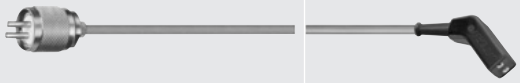
GK624R
160 mm, 6 1/4"

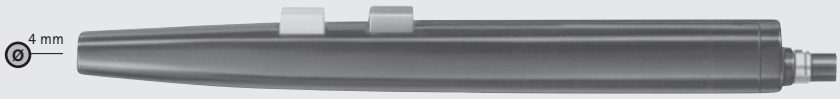


GK625R
200 mm, 8"

	On the equipment side - Manufacturer Geräteseite - Hersteller		On the instrument side Instrumentenseite
GN081 5 m	Aesculap Berchthold Martin R. Wolf		
GN082 5 m	Erbe Storz		
GN083 5 m	For Aesculap generators: Für Aesculap Elektrochirurgie Geräte: GK020 GK021 GK030 GK034 GK050 GK051		
GN085 5 m	Valleylab Erbe VIO	Pin distance 29 mm Pinabstand 29 mm 	

	On the equipment side - Manufacturer Geräteseite - Hersteller		On the instrument side Instrumentenseite
GN073 3.5 m GN077 5.0 m GN076 3.5 m GN078 5.0 m GN074 3.5 m	Aesculap ACMI Berchtold Martin Wolf		Aesculap tab connector Aesculap Flachstecker Euro tab connector Euro-Flachstecker Aesculap Round pin connector Aesculap Rundstiftstecker
XF830 3.5 m GK216 3.5 m GK213 5.0 m GK185 3.5 m GK188 5.0 m	Erbe Storz		Aesculap Round pin connector Aesculap Rundstiftstecker Aesculap tab connector Aesculap Flachstecker Euro tab connector Euro-Flachstecker
GN217	Aesculap	Bipolar adapter Bipolar Adapter 	Erbe, Storz

	On the equipment side - Manufacturer Geräteseite - Hersteller		On the instrument side Instrumentenseite
GK217 3.5 m	Codman		Aesculap tab connector Aesculap Flachstecker
		Pin distance 29 mm Pinabstand 29 mm	
GK193 3.5 m	Aesculap Bowa EMC Lamidey Söring Valleylab		Aesculap tab connector Aesculap Flachstecker
GK194 3.5 m			Euro tab connector Euro-Flachstecker
GK202 3.5 m	For Aesculap Generators: Für Aesculap Elektrochirurgie Geräte: GK020 GK021 GK030 GK034 GK050 GK051		Aesculap tab connector Aesculap Flachstecker
GK212 3.5 m			Aesculap Round pin connector Aesculap Rundstiftstecker



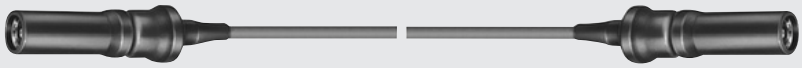
GN209

Electrode handle, with two finger pushbuttons
suitable for devices from Aesculap, ACMI, Berchtold, Martin, Erbe ACC/ICC/VIO
Elektrodenhandgriff, mit Doppelfingertastern
passend für Geräte von Aesculap, ACMI, Berchtold, Martin, Erbe ACC/ICC/VIO



GN207

Electrode handle, without finger pushbuttons
suitable for devices from Aesculap, ACMI, Berchtold, Martin, Erbe ACC/ICC/VIO
Elektrodenhandgriff, ohne Fingertaster
passend für Geräte von Aesculap, ACMI, Berchtold, Martin, Erbe ACC/ICC/VIO



GN203	3.5 m
GN205	5.0 m

Cable for electrode handle
suitable for devices from Aesculap, ACMI, Berchtold, Martin
Kabel für Elektrodenhandgriff
passend für Geräte von Aesculap, ACMI, Berchtold, Martin



GN213	3.0 m
GN215	5.0 m

Cable for electrode handle
suitable for devices from Erbe ACC/ICC/VIO
Kabel für Elektrodenhandgriff
passend für Geräte von Erbe ACC/ICC/VIO



GK252Y

Electrode handle, without finger pushbuttons, plug according to US standard
suitable for devices from Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab

Elektrodenhandgriff ohne Fingertaster, Stecker US-Norm
passend für Geräte von Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab



GK253Y

Electrode handle, with two finger pushbuttons, plug according to US standard
suitable for devices from Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab

Elektrodenhandgriff mit Doppelfingertastern, Stecker US-Norm
passend für Geräte von Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab

Slim Style



GN206

Electrode handle, without finger pushbuttons
suitable for devices from Aesculap, ACMI, Berchtold, Martin

Elektrodenhandgriff, ohne Fingertaster
passend für Geräte von Aesculap, ACMI, Berchtold, Martin

Slim Style



GN218

Electrode handle, without finger pushbuttons
suitable for devices from Aesculap, ACMI, Berchtold, Martin

Elektrodenhandgriff, ohne Fingertaster
passend für Geräte von Aesculap, ACMI, Berchtold, Martin

Slim Style

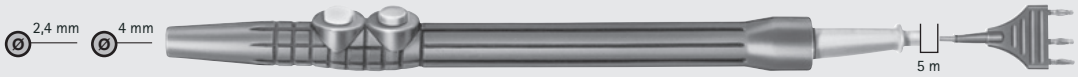


GN208

Electrode handle, without finger pushbuttons
suitable for devices from Aesculap, ACMI, Berchtold, Martin

Elektrodenhandgriff, ohne Fingertaster
passend für Geräte von Aesculap, ACMI, Berchtold, Martin

Slim Style



	Diam. Ø
GN210	2.4 mm
GN212	4.0 mm

Electrode handle, with two finger pushbottons, plug according to US standard
suitable for devices from Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab

Elektrodenhandgriff mit Doppelfingertastern, Stecker US-Norm
passend für Geräte von Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab

Single Use



GN211

Single use electrode handle, with finger pushbuttons, plug according to US standard
suitable for devices from Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab
Sales unit:
PAK = Package of 50 pieces, in single sterile packs

Einmal-Elektrodenhandgriff, mit Fingertastern, Stecker US Norm
passend für Geräte von Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab
Bestelleinheit:
PAK = Packung à 50 Stück, einzeln steril verpackt

Single Use

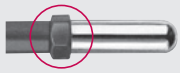


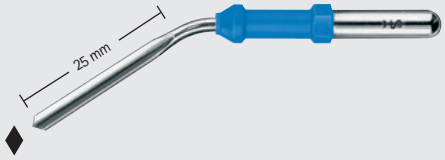
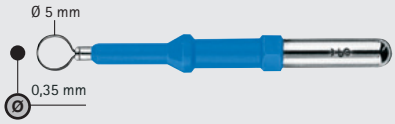
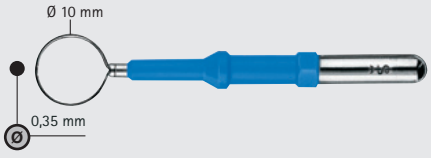
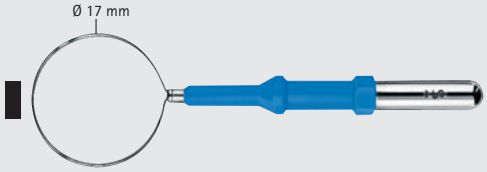
GN221

Single use electrode handle, without finger pushbuttons
suitable for devices from Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab
Sales unit:
PAK = Package of 50 pieces, in single sterile packs

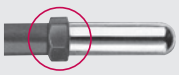
Einmal-Elektrodenhandgriff, ohne Fingertaster
passend für Geräte von Aesculap, ACMI, Berchtold, Conmed, Martin, Valleylab
Bestelleinheit:
PAK = Packung à 50 Stück, einzeln steril verpackt

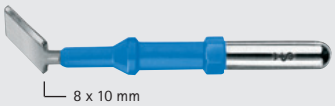
with hexagonal anti-twist protection
mit Sechskantverdrehschutz



		Diam. 4.0 mm Ø 4,0 mm	Diam. 2.4 mm Ø 2,4 mm
			
Knife electrodes Messerelektroden		GK110R	GK140R
Cutting electrodes Lanzettenelektroden		GK111R	GK141R
		GK112R	GK142R
		GK113R	GK143R
Needle electrodes Nadelelektroden		GK114R	GK144R
Loop electrodes Schlingenelektroden		GK115R	GK145R
		GK116R	GK146R
		GK117R	GK147R
		GK118R	GK148R

with hexagonal anti-twist protection
mit Sechskantverdrehschutz



		Diam. 4.0 mm Ø 4,0 mm	Diam. 2.4 mm Ø 2,4 mm
			
Ball electrodes Kugelelektroden		GK121R	GK151R
		GK122R	GK152R
Plate electrodes Plattenelektroden		GK123R	GK153R
Surgical electrodes set consisting of: container, rack and 12 electrodes Chirurgie-Elektroden-Set bestehend aus: Behälter, Ständer und 12 Elektroden		GK174R	

Single Use

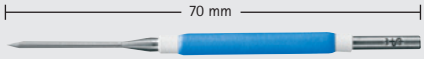
Ball electrode
Sales unit:
PAK = Package of 50 pieces, in single sterile packs
Kugelelektrode
Bestelleinheit:
PAK = Packung à 50 Stück, einzeln steril verpackt



GK164R

Single Use

Needle electrode
Sales unit:
PAK = Package of 50 pieces, in single sterile packs
Nadelelektrode
Bestelleinheit:
PAK = Packung à 50 Stück, einzeln steril verpackt

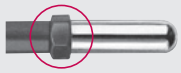


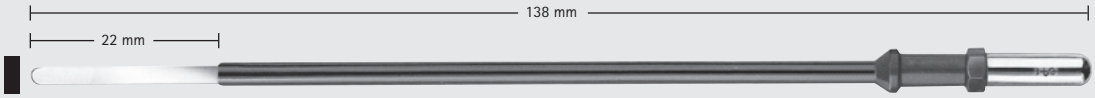
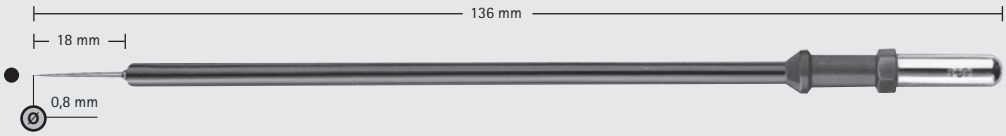
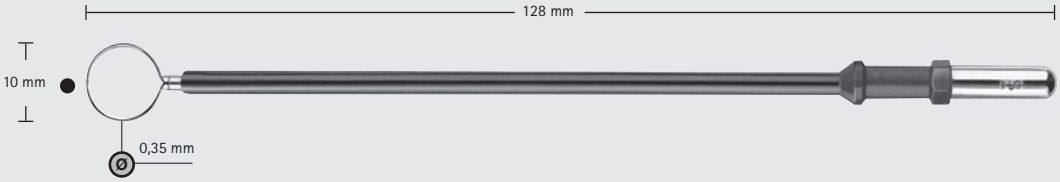
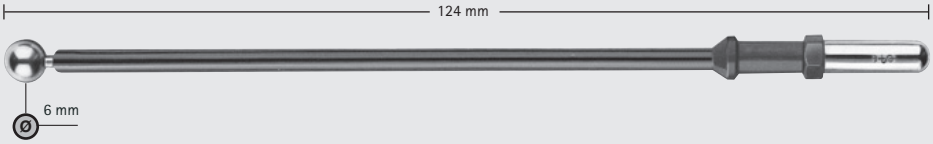
GK165R

HF

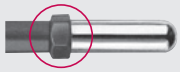
MILLIMETERS

with hexagonal anti-twist protection
mit Sechskantverdrehschutz



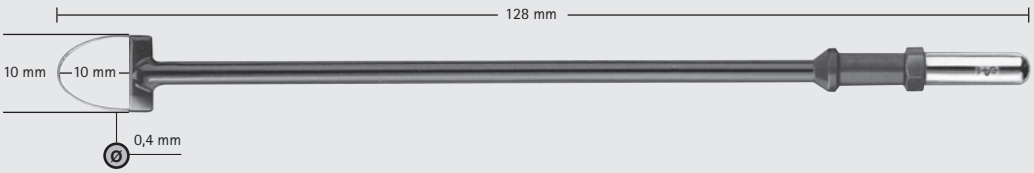
	Diam. 4.0 mm Ø 4,0 mm	Diam. 2.4 mm Ø 2,4 mm
		
 Knife electrodes Messerelektroden	GK125R	GK155R
 Needle electrodes Nadelelektroden	GK127R	GK157R
 Wire loop electrode Drahtschlingenelektrode	GK128R	
 Ball electrode Kugelelektrode	GK129R	

with hexagonal anti-twist protection
mit Sechskantverdrehschutz

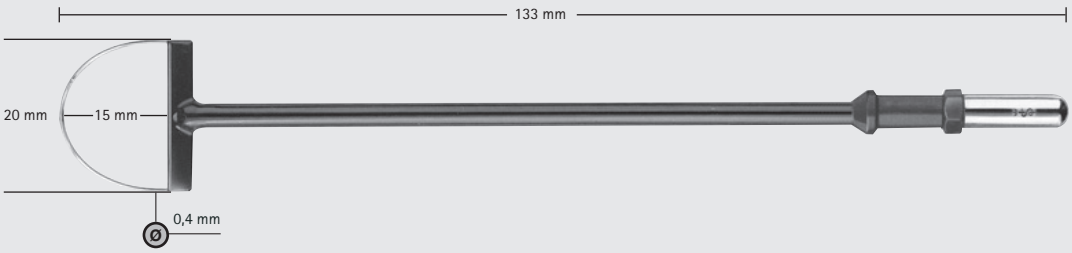


Diam. 4.0 mm
Ø 4,0 mm

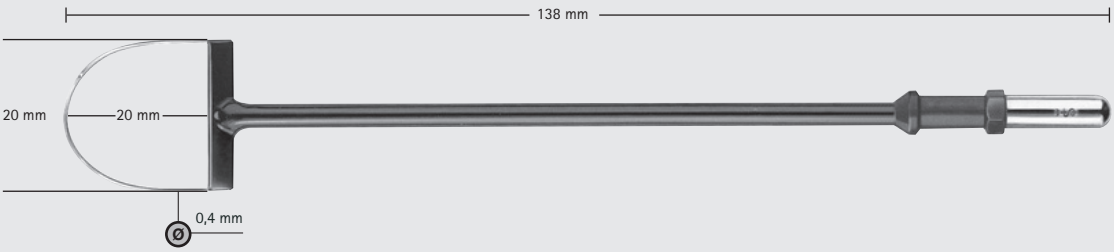




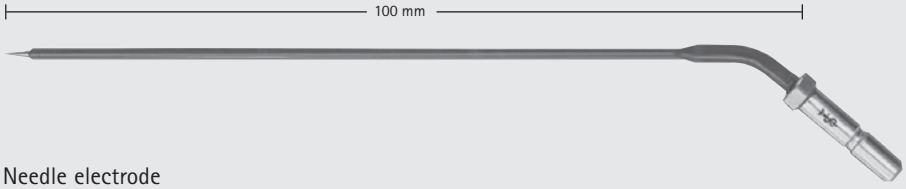
GK131R



GK132R



GK133R



GK424

Needle electrode
Stichkoagulationsnadel

HF

MILLIMETERS



GN227

Electrode handle, without finger pushbuttons

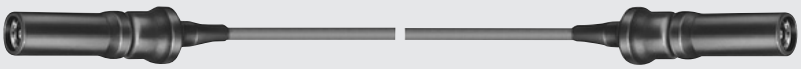
Elektrodenhandgriff, ohne Fingertaster



GN229

Electrode handle, with two finger pushbuttons

Elektrodenhandgriff, mit Doppelfingertastern



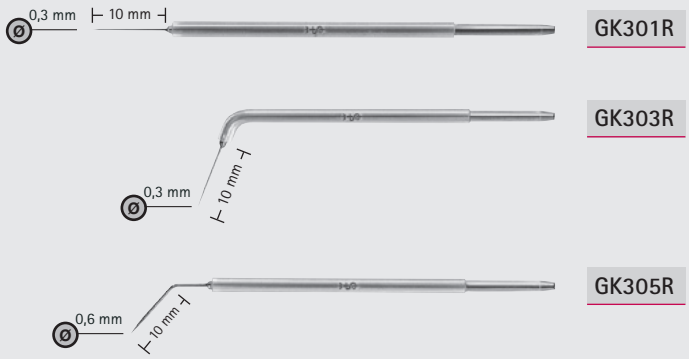
GN203	3.5 m
GN205	5.0 m

Cable for electrode handle
suitable for devices from Aesculap, ACMI, Berchtold, Martin

Kabel für Elektrodenhandgriff
passend für Geräte von Aesculap, ACMI, Berchtold, Martin

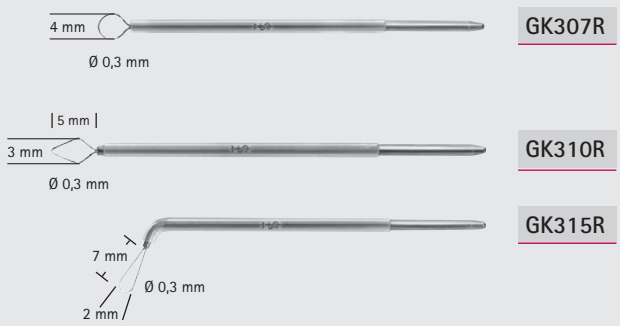
Diam. 1.7 mm
Ø 1,7 mm

GK301R–GK305R
Needle electrodes
Nadelelektroden



GK301R
GK303R
GK305R

GK307R–GK315R
Loop electrodes
Schlingenelektroden



GK307R
GK310R
GK315R

GK320R–GK321R
Ball electrodes
Kugelelektroden



GK320R
GK321R

GK680R
Container with lid
Behälter mit Deckel

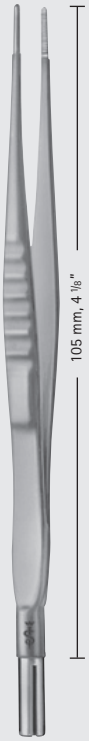


GK683R
Rack for surgery electrodes
Ständer für Chirurgie-Elektroden

HF

MILLIMETERS





GK012R
130 mm, 5 1/8"



GK005R
180 mm, 7"



GK007R
200 mm, 8"





GK010R
230 mm, 9"



GK013R
270 mm, 10 3/4"



GK033R
350 mm, 14"

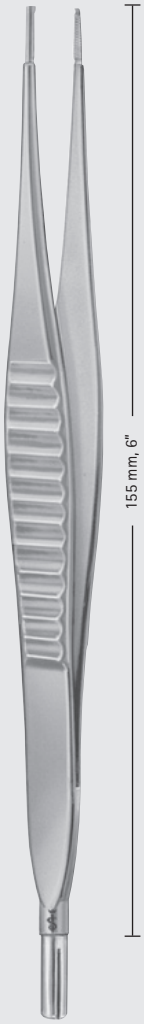




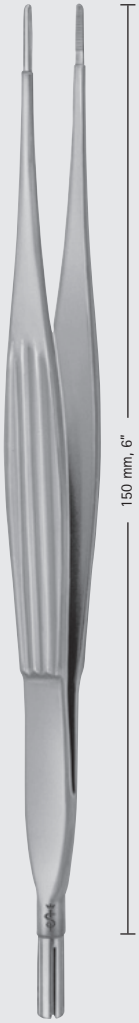
TURNER
GK008R
130 mm, 5 1/8"



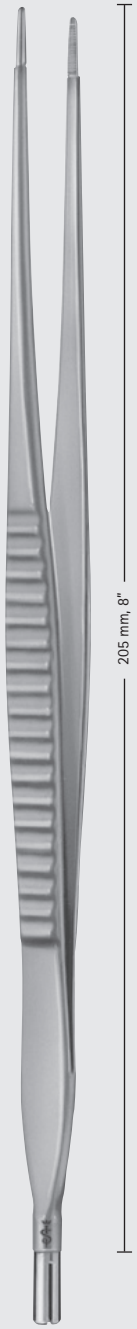
ADSON
GK015R
150 mm, 6"



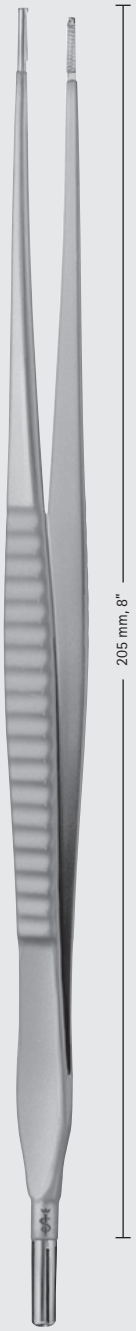
GILLES
GK006R
1 x 2 teeth
1 x 2 Zähne
175 mm, 7"



MC INDOE
GK009R
175 mm, 7"



WAUGH
GK016R
230 mm, 9"



WAUGH
GK017R
1 x 2 teeth
1 x 2 Zähne
230 mm, 9"

HF

INCHES





REMINGTON-HOBB

GK737R

serrated

gerieft

250 mm, 10"



REMINGTON-HOBB

GK738R

1 x 2 teeth

1 x 2 Zähne

270 mm, 10 3/4"



REMINGTON-HOBB

GK739R

serrated

gerieft

250 mm, 10"

1.4 mm



1/1

BD852R	BD853R	BD854R
200 mm	240 mm	300 mm
8"	9 1/2"	12"

Dissecting Forceps
Anatomische Pinzette

1.4 mm



1/1

BD855R	BD856R	BD857R
200 mm	240 mm	300 mm
8"	9 1/2"	12"

1 x 2 teeth
1 x 2 Zähne

ATRAUMATA®

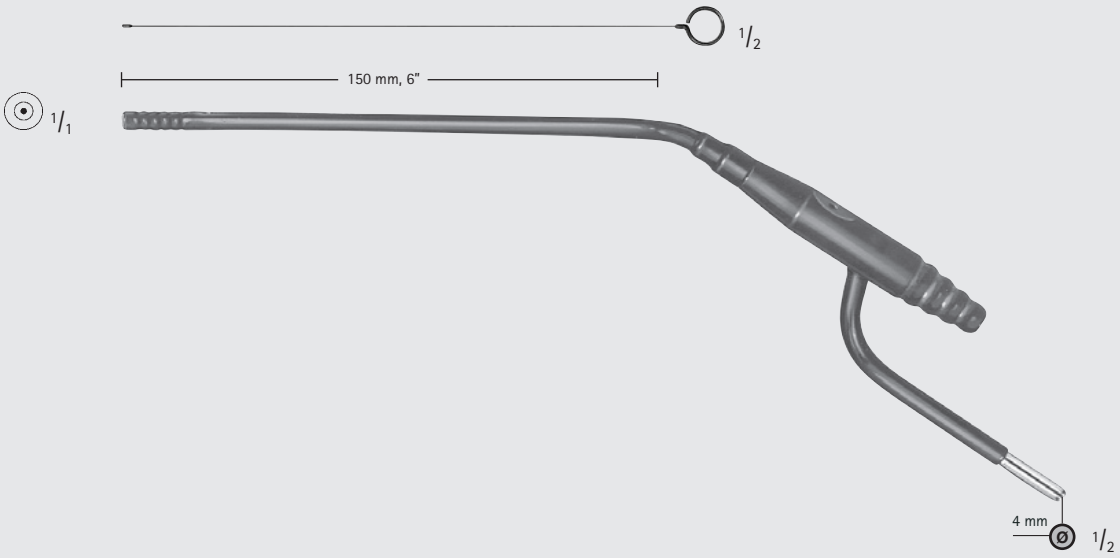
2.0 mm



1/1

BD858R	BD859R	BD860R
200 mm	240 mm	300 mm
8"	9 1/2"	12"





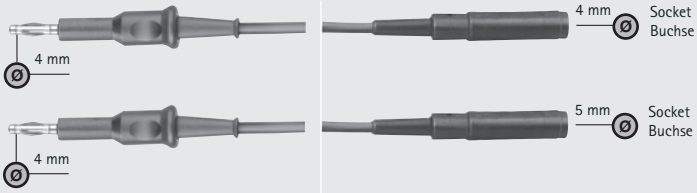
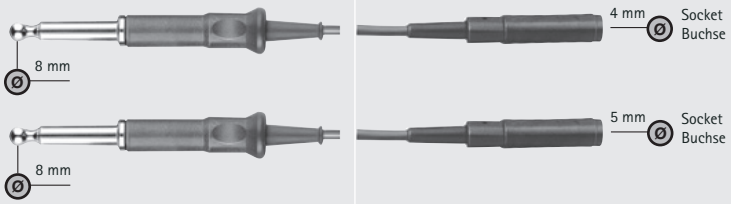
LANDOLT

GK550

Coagulation suction cannula
with finger cut-off and stylet

Koagulations-Absaugkanüle
mit Saugunterbrecher und Mandrin

	On the equipment side - Manufacturer Geräteseite - Hersteller		On the instrument side Instrumentenseite
GN202 3.5 m	Aesculap ACMI Berchtold Martin		
GN204 3.5 m			
GK239 3.5 m	Erbe ACC/ICC/VIO		

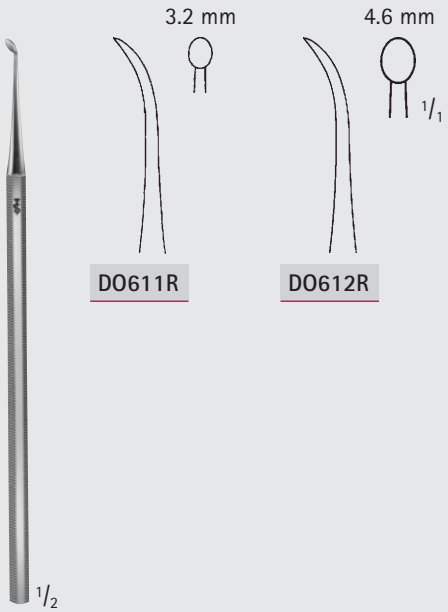
	On the equipment side - Manufacturer Geräteseite - Hersteller	On the instrument side Instrumentenseite
GN216	Aesculap	Monopolar adapter Monopolarer Adapter  Erbe, Storz
GK245 3.5 m **GK180** 3.5 m	Erbe T	
GK246 3.5 m **GK181** 3.5 m	ACMI Conmed Erbe ICC intern. Eschmann Valleylab US-Norm	


INCHES
1
2
3
5
6
7
8
9

Bone
Knochen



Bone Instruments
Knocheninstrumente



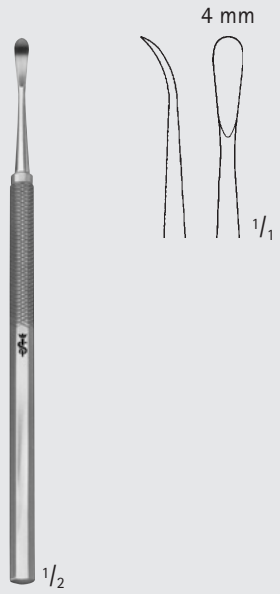
PARTSCH

DO611R–DO612R

sharp

scharf

150 mm, 6"



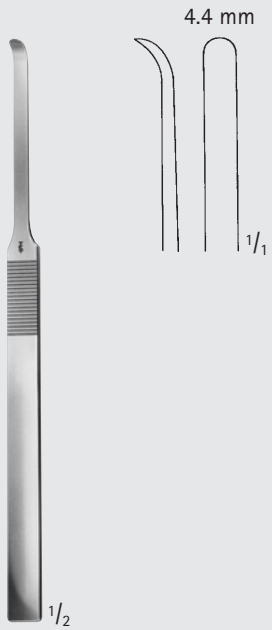
PARTSCH MOD. LANGE

DO642R

sharp

scharf

145 mm, 5 3/4"



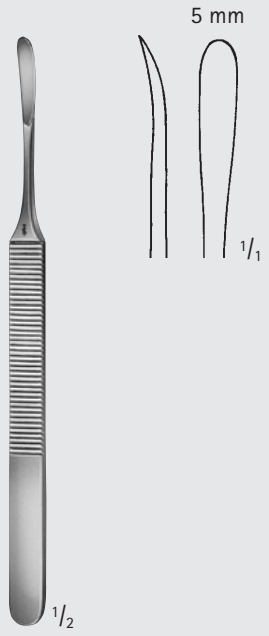
MC KENTY

OL192R

sharp

scharf

155 mm, 6"



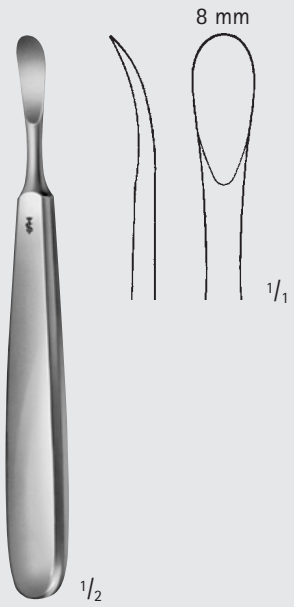
KÖNIG

OM309R

sharp

scharf

155 mm, 6"



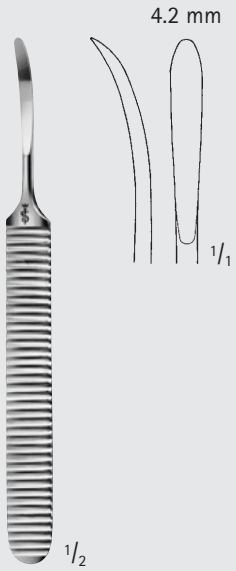
TRELAT

OM311R

sharp

scharf

150 mm, 6"



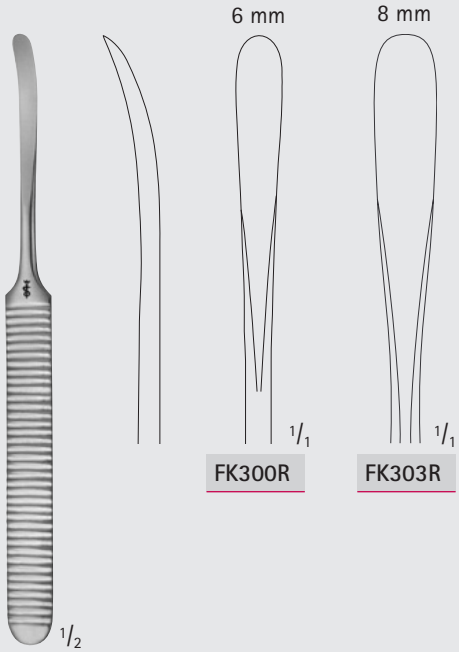
WILLIGER

DO510R

sharp

scharf

140 mm, 5 1/2"



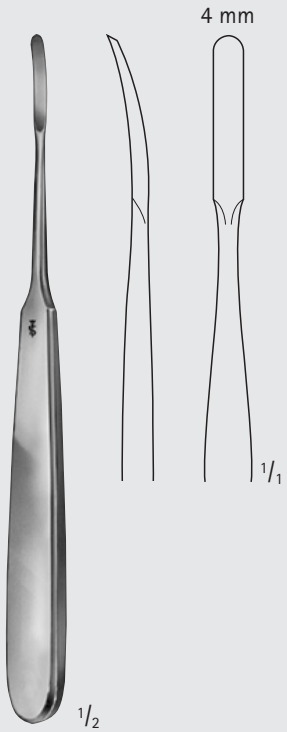
WILLIGER

FK300R–FK303R

sharp

scharf

160 mm, 6 1/4"



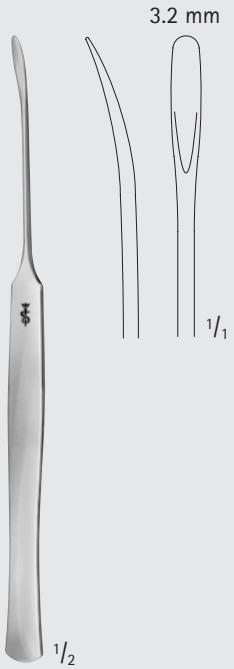
JOSEPH

FK310R

sharp

scharf

180 mm, 7"



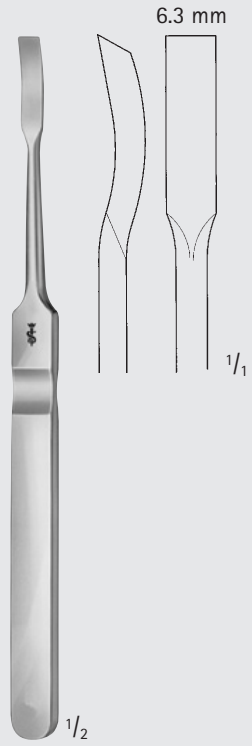
LEMPERT

OG165R

semi-sharp

halbscharf

165 mm, 6 1/2"



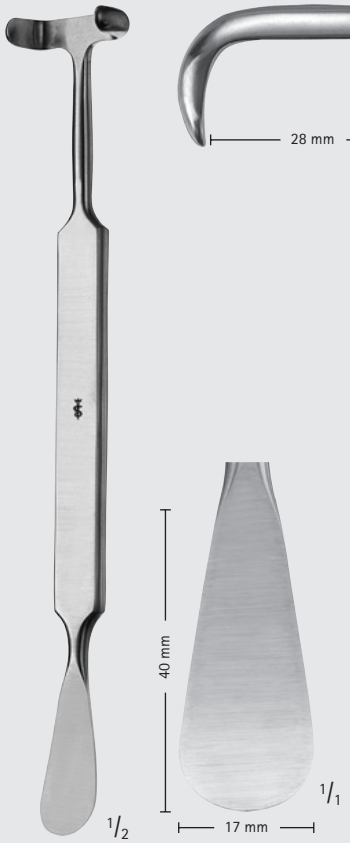
LEMPERT

OG164R

sharp

scharf

185 mm, 7 1/4"



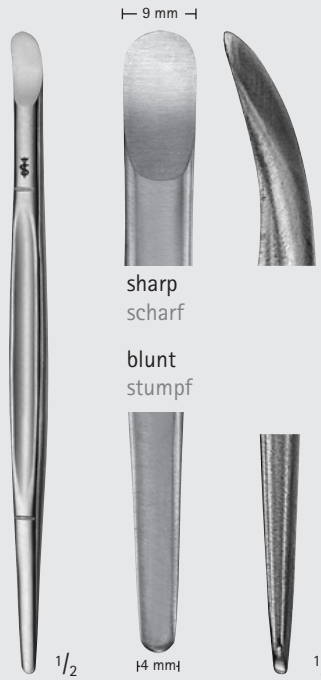
MATSON

MB812R

Rib stripper, sharp/sharp

Rippenstripper, scharf/scharf

220 mm, 8 3/4"



sharp

scharf

blunt

stumpf

SAYRE

MB816R

sharp/blunt

scharf/stumpf

170 mm, 6 3/4"



HALLE
OL160R
blunt
stumpf
180 mm, 7"



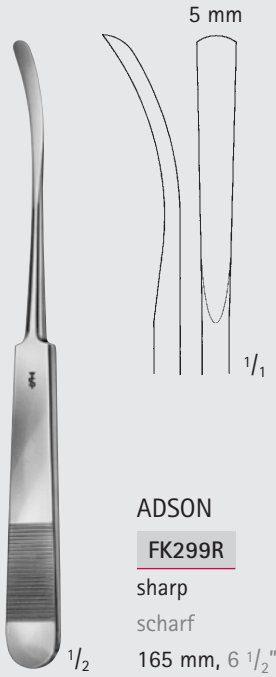
FREER
OL163R
blunt
stumpf
190 mm, 7 1/2"



FREER
OL162R
sharp
scharf
190 mm, 7 1/2"



SEWALL
OL198R
sharp
scharf
200 mm, 8"



ADSON
FK299R
sharp
scharf
165 mm, 6 1/2"

Bone Instruments – Knocheninstrumente

Raspatories, Elevators

Raspatorien, Elevatoren



KILLIAN

OL170R

blunt/sharp

stumpf/scharf

185 mm, 7 1/4"



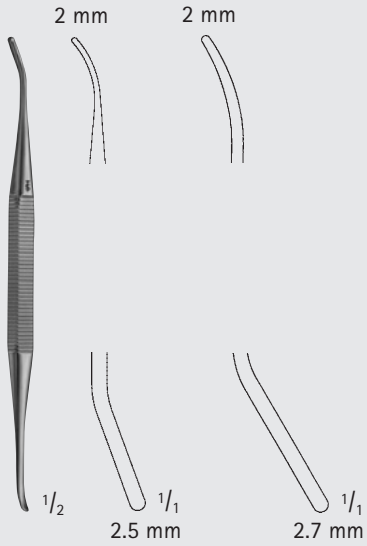
MAC DONALD

FK291R

blunt/blunt

stumpf/stumpf

185 mm, 7 1/4"



WATSON-CHEYNE

FK292R

blunt/blunt

stumpf/stumpf

130 mm, 5 1/8"

FK293R

blunt/blunt

stumpf/stumpf

190 mm, 7 1/2



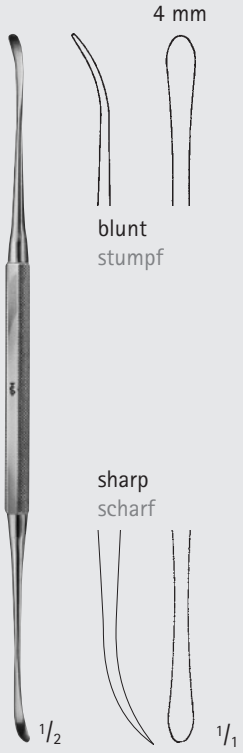
FREER

OL164R

sharp/blunt

scharf/stumpf

180 mm, 7"



FREER

OL165R

blunt/sharp

stumpf/scharf

185 mm, 7 1/4"



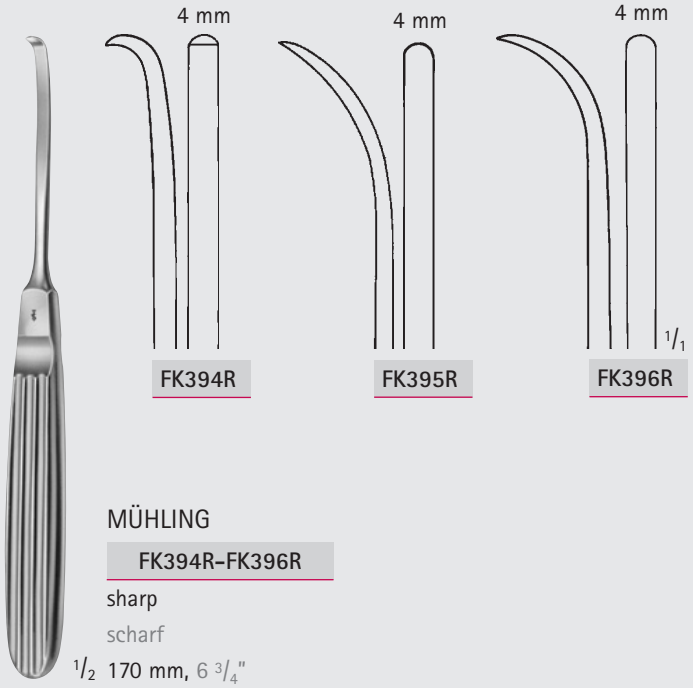
FREER-YASARGIL

OL166R

sharp/sharp

scharf/scharf

185 mm, 7 1/4"



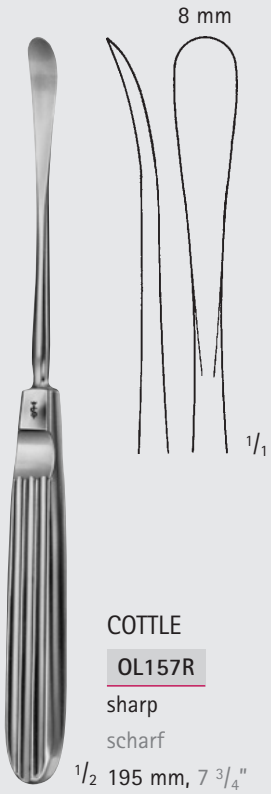
MÜHLING

FK394R–FK396R

sharp

scharf

1/2 170 mm, 6 3/4"



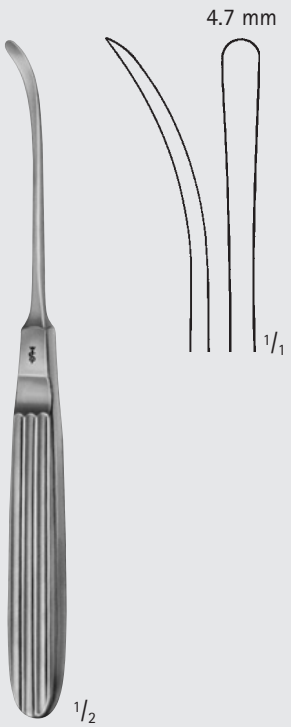
COTTLE

OL157R

sharp

scharf

1/2 195 mm, 7 3/4"



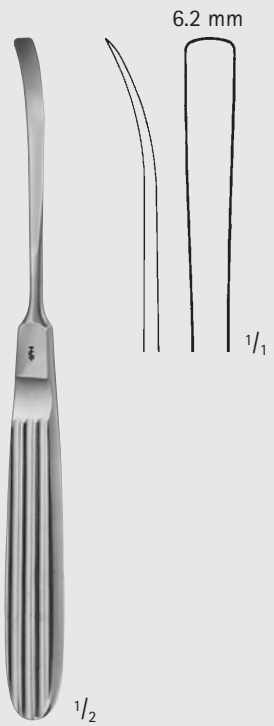
LANDOLT

FK314R

sharp

scharf

175 mm, 7"



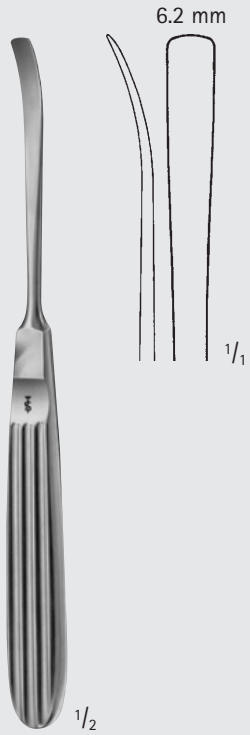
CASPAR

FK328R

sharp

scharf

180 mm, 7"



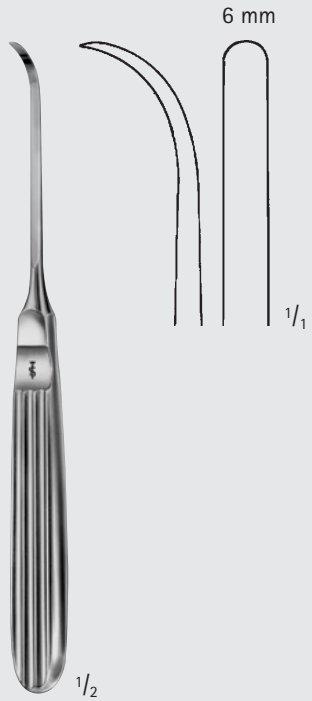
CASPAR

FK329R

semi-sharp

halbscharf

180 mm, 7"



DO523R

sharp

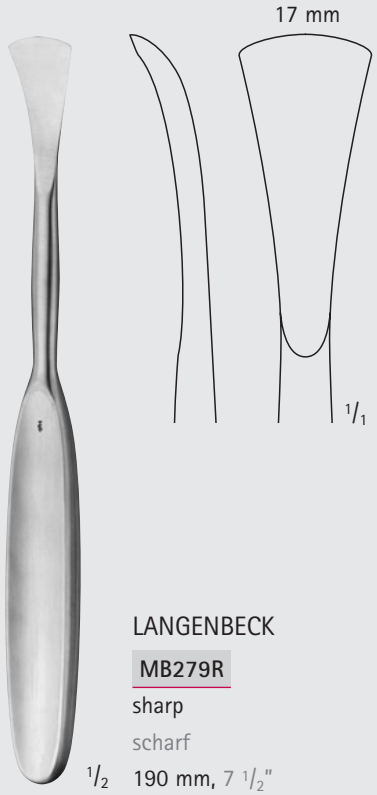
scharf

170 mm, 6 3/4"

Bone Instruments – Knocheninstrumente

Raspatories, Elevators

Raspatorien, Elevatoren



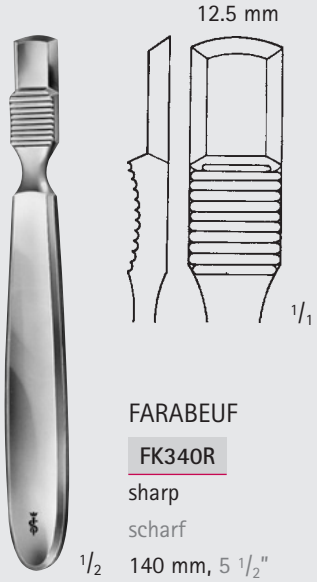
LANGENBECK

MB279R

sharp

scharf

1/2 190 mm, 7 1/2"



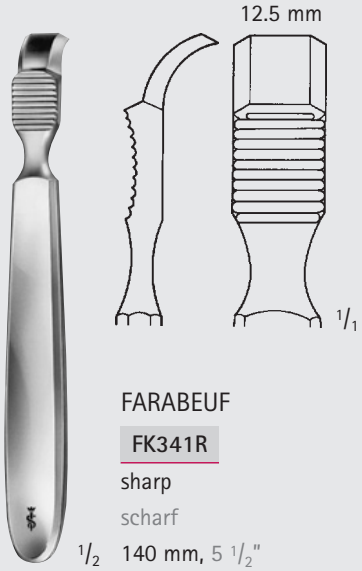
FARABEUF

FK340R

sharp

scharf

1/2 140 mm, 5 1/2"



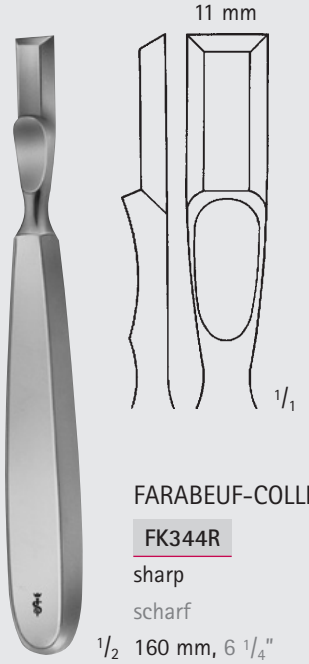
FARABEUF

FK341R

sharp

scharf

1/2 140 mm, 5 1/2"



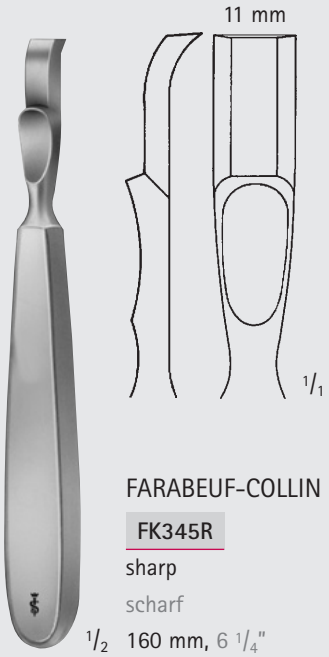
FARABEUF-COLLIN

FK344R

sharp

scharf

1/2 160 mm, 6 1/4"



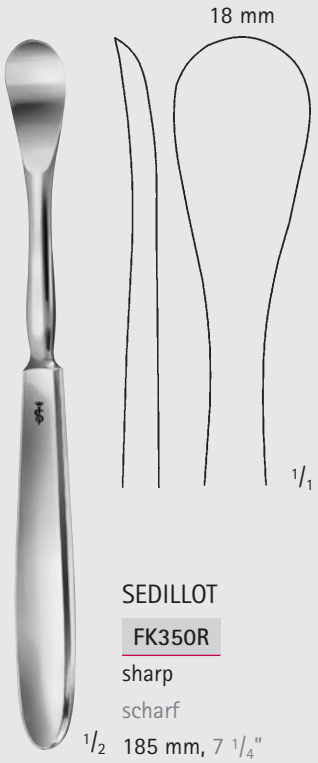
FARABEUF-COLLIN

FK345R

sharp

scharf

1/2 160 mm, 6 1/4"



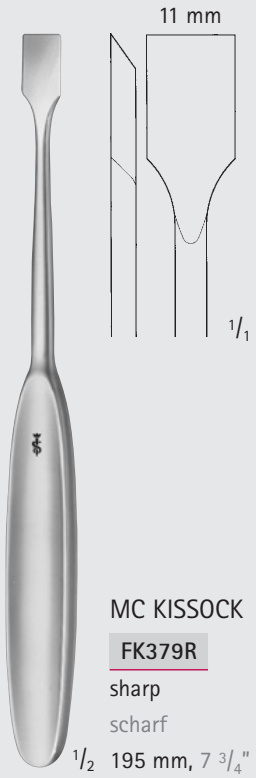
SEDILLOT

FK350R

sharp

scharf

1/2 185 mm, 7 1/4"



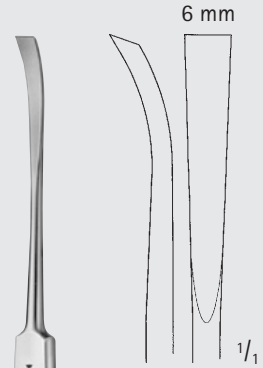
MC KISSOCK
FK379R
sharp
scharf
1/2 195 mm, 7 3/4"



KRÄMER
FK390R
sharp
scharf
1/2 185 mm, 7 1/4"



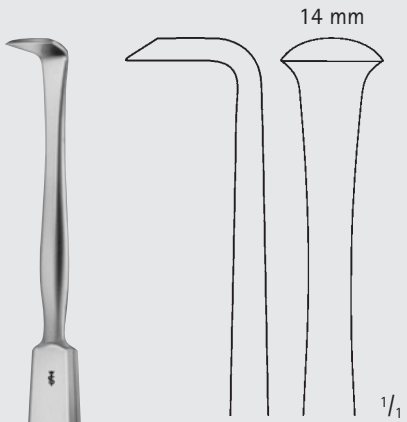
KRÄMER
FK391R
sharp
scharf
1/2 190 mm, 7 1/2"



PENNYBACKER
FK378R
sharp
scharf
1/2 165 mm, 6 1/2"



LANGENBECK
FK360R
sharp
scharf
1/2 190 mm, 7 1/2"



LANGENBECK
FK361R
sharp
scharf
1/2 180 mm, 7"

Bone Instruments – Knocheninstrumente

Raspatories, Elevators

Raspatorien, Elevatoren



KEY	Width Breite	Length Länge
FK410R	6.4 mm	180 mm, 7"
FK411R	9.5 mm	190 mm, 7 1/2"
FK412R	12.7 mm	190 mm, 7 1/2"
FK413R	19.0 mm	200 mm, 8"
FK414R	25.4 mm	210 mm, 8 1/4"

sharp
scharf



1/2



1/1

FK355R	5 mm
FK356R	10 mm
FK357R	15 mm
FK358R	20 mm
FK359R	25 mm

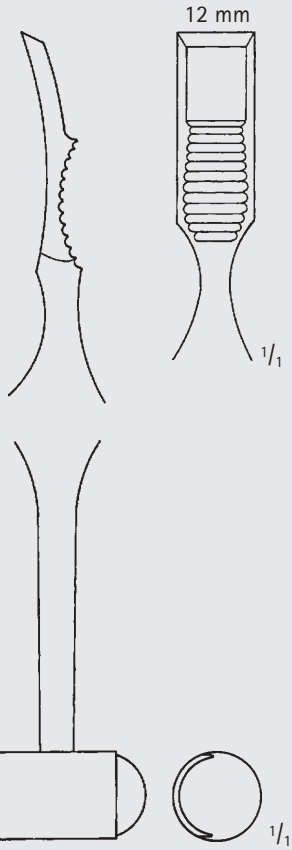
LAMBOTTE

FK355R–FK359R

sharp
scharf
215 mm, 8 1/2"



1/2



ALEXANDER

FK420R

sharp
scharf
210 mm, 8 1/4"



2/3

SEMB

FK381R–FK387R

sharp

scharf

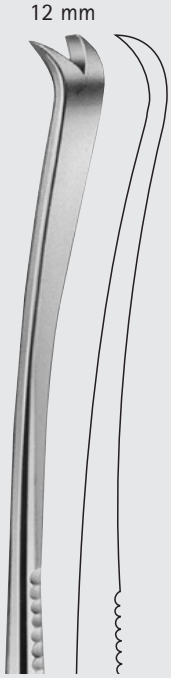


12 mm

FK381R

190 mm

7 1/2"

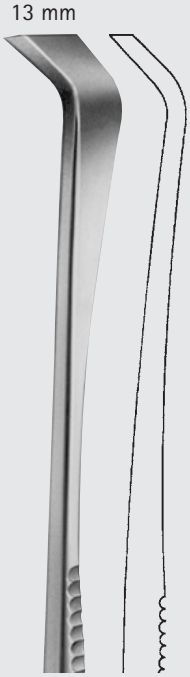


12 mm

FK382R

230 mm

9"

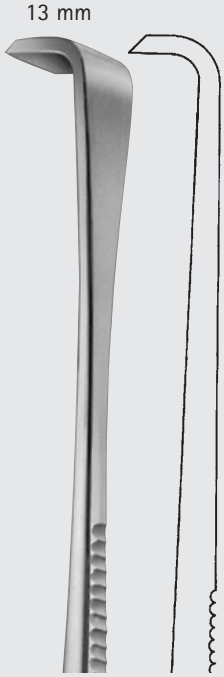


13 mm

FK383R

230 mm

9"

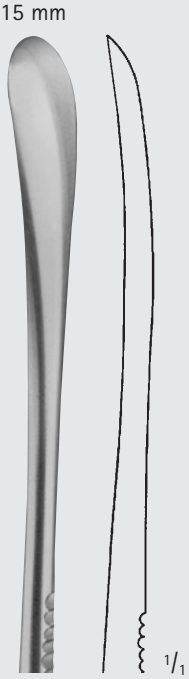


13 mm

FK384R

230 mm

9"



15 mm

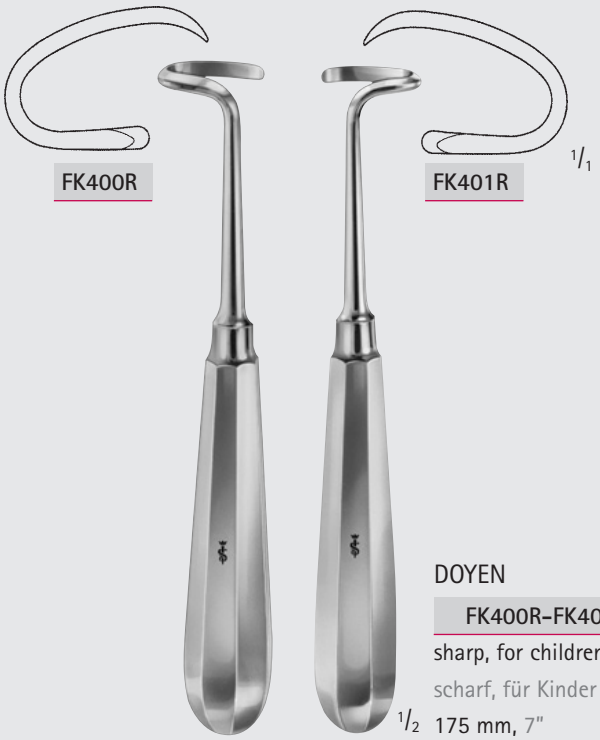
FK387R

230 mm

9"

1/1

MILLIMETERS



DOYEN

FK400R–FK401R

sharp, for children

scharf, für Kinder

175 mm, 7"



DOYEN

FK402R–FK403R

sharp, for adults

scharf, für Erwachsene

175 mm, 7"



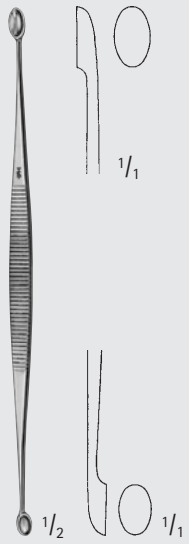
DOYEN

FK408R–FK409R

sharp

scharf

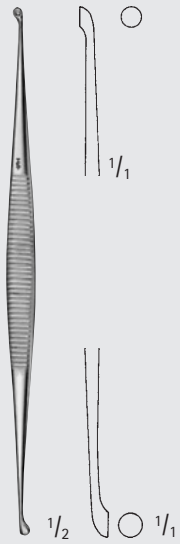
240 mm, 9 1/2"



JACOBSON

FK813R

140 mm, 5 1/2"



MARTINI

FK800R

140 mm, 5 1/2"



MARTINI

FK801R

140 mm, 5 1/2"



WILLIGER

FK814R

145 mm, 5 3/4"



JANSEN

FK803R

160 mm, 6 1/4"



BARTH

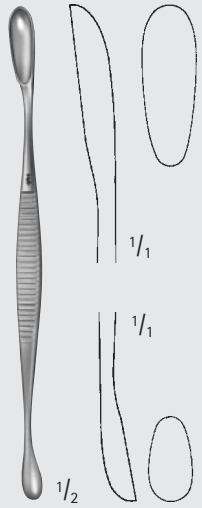
FK817R

180 mm, 7"



FK850R

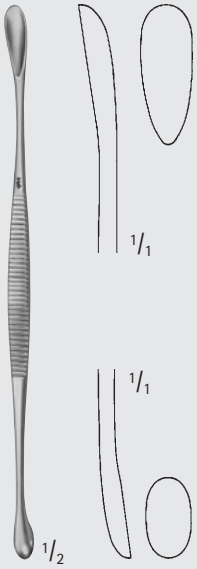
210 mm, 8 1/4"



VOLKMANN

FK840R

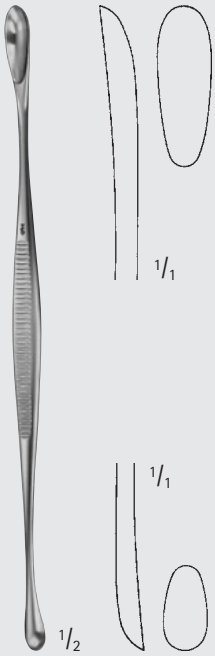
130 mm, 5 1/8"



VOLKMANN

FK841R

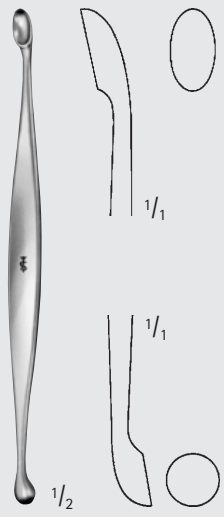
145 mm, 5 3/4"



VOLKMANN

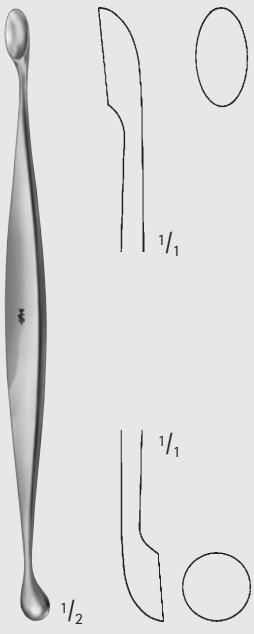
FK842R

170 mm, 6 3/4"



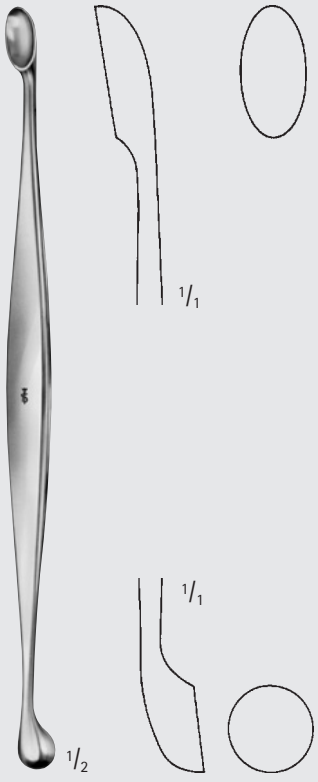
FK845R

130 mm, 5 1/8"



FK846R

160 mm, 6 1/4"



FK848R

200 mm, 8"



3 mm	4 mm	5 mm	6 mm
Fig. 000	Fig. 00	Fig. 0	Fig. 1
FK611R	FK612R	FK613R	FK614R

8 mm	10 mm	12 mm
Fig. 2	Fig. 3	Fig. 4
FK615R	FK616R	FK617R

1/1

1/2

BRUNS

FK611R–FK617R

165 mm, 6 1/2"



2.5 mm	3.4 mm	4.2 mm
Fig. 000	Fig. 00	Fig. 0
FK621R	FK622R	FK623R

5.2 mm	6.3 mm	7.4 mm	8 mm
Fig. 1	Fig. 2	Fig. 3	Fig. 4
FK624R	FK625R	FK626R	FK627R

1/1

1/2

SCHEDE

FK621R–FK627R

170 mm, 6 3/4"



2.8 mm	3.6 mm	4.4 mm	5.2 mm	6.8 mm
Fig. 0000	Fig. 000	Fig. 00	Fig. 0	Fig. 1
FK630R	FK631R	FK632R	FK633R	FK634R

8.5 mm	10 mm	11.5 mm	13 mm	14.5 mm
Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6
FK635R	FK636R	FK637R	FK638R	FK639R

1/1

1/2

VOLKMANN

FK630R–FK639R

170 mm, 6 3/4"



1.8 mm

FK675R

2.0 mm

FK676R

2.4 mm

FK677R

2.6 mm

FK678R

2.8 mm

1/1

FK679R

1/2

LEMPERT

FK675R–FK679R

215 mm, 8 1/2"



3.6 mm

Fig. 000

FK702R

4.4 mm

Fig. 00

FK703R

5.2 mm

Fig. 0

FK704R

6.8 mm

1/1

Fig. 1

FK705R

1/2

FK702R–FK705R

250 mm, 10"



1/2

BRUNS

MB872R–MB880R

230 mm, 9"

2.0 mm	2.5 mm	3.3 mm
Fig. 000	Fig. 00	Fig. 0
MB872R	MB873R	MB874R
3.8 mm	**4.8 mm**	**5.3 mm**
Fig. 1	Fig. 2	Fig. 3
MB875R	MB876R	MB877R
6.0 mm	**6.7 mm**	**7.3 mm**
Fig. 4	Fig. 5	Fig. 6
MB878R	MB879R	MB880R

1/1

MILLIMETERS



1/1

WITT

SR421R 1.4 x 40 mm

Sternal puncture needle with Luer cone

Sternum-Punktionskanüle mit Luer-Ansatz

90 mm, 3 1/2"



1/2

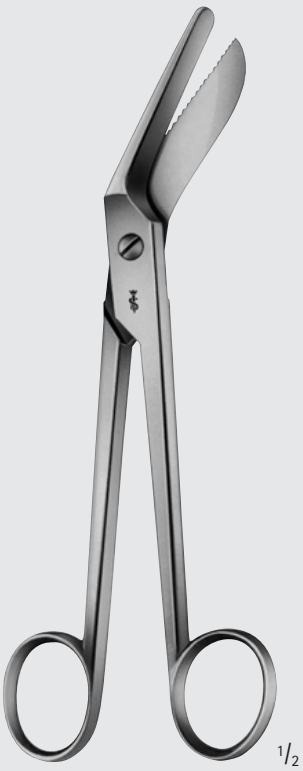
SCHUMACHER

FB911R

Sternum shears

Sternumschere

210 mm, 8 1/4"



BRAUN-STADLER

ET141R

Sternum shears for children

Sternumschere für Kinder

200 mm, 8"



LEBSCHE

FB918R

Sternum chisel

Sternummeißel

200 mm, 8"



1/3

FB870R
230 mm, 9"



1/3

GLUCK

FB873R
190 mm, 7 1/2"



1/3

BETHUNE

FB878R
340 mm, 13 1/2"



1/3

SAUERBRUCH

FB881R	**FB882R**
for children	for adults
für Kinder	für Erwachsene
240 mm, 9 1/2"	270 mm, 10 3/4"



1/3

BRUNNER

FB892R

Universal pattern

Universalmodell

340 mm, 13 1/2"



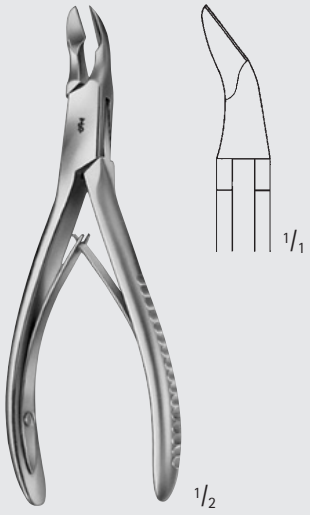
1/3

GIERTZ-STILLE

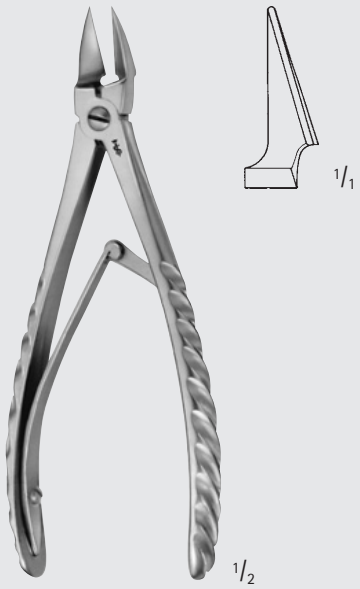
FB890R

250 mm, 10"

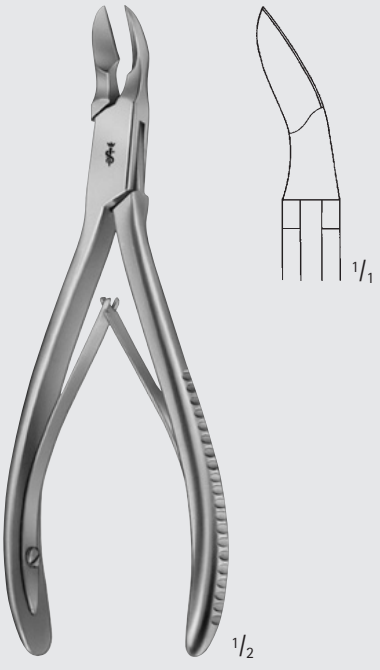
MILLIMETERS



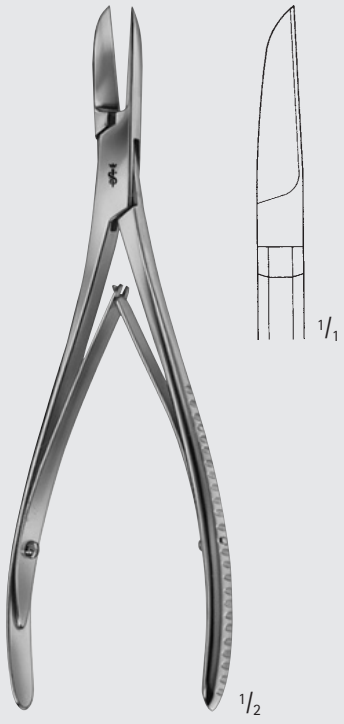
FO601R
130 mm, 5 1/8"



STAMM
FO604R
150 mm, 6"

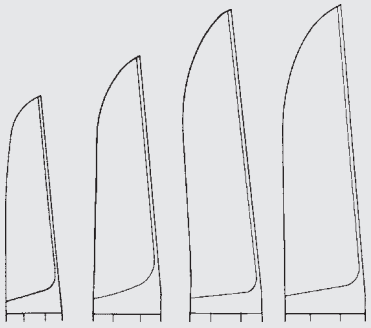


FO602R
170 mm, 6 3/4"



KAZANJIAN
OK378R
185 mm, 7 1/2"





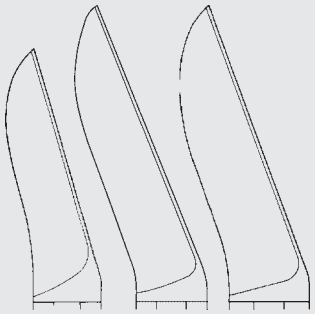
1/1

FO620R	FO622R	FO624R	FO626R
140 mm	170 mm	200 mm	220 mm
5 1/2"	6 3/4"	8"	8 3/4"

LISTON

FO620R–FO626R





1/1

FO632R	FO634R	FO636R
170 mm	200 mm	220 mm
6 3/4"	8"	8 3/4"

LISTON

FO632R–FO636R



BÖHLER

FO610R

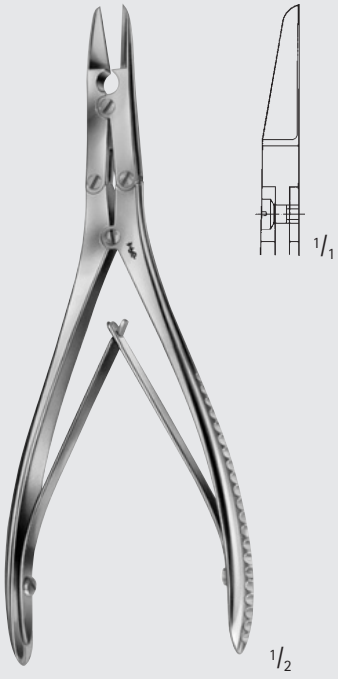
145 mm, 5 3/4"



BÖHLER

FO611R

145 mm, 5 3/4"



FO612R

170 mm, 6 3/4"



MC INDOE

FO614R

175 mm, 7"



RUSKIN-LISTON

FO640R

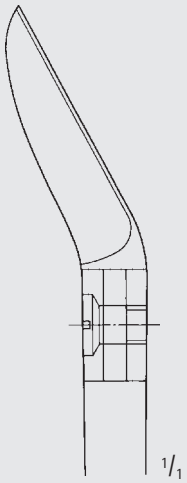
190 mm, 7 1/2"

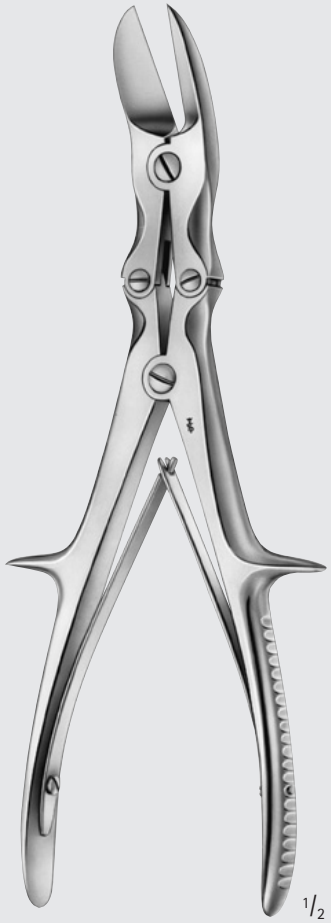


RUSKIN-LISTON

FO641R

190 mm, 7 1/2"

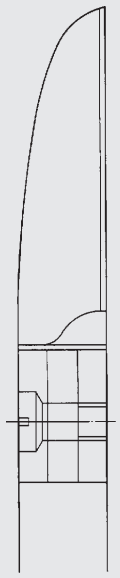




LISTON

FO645R

240 mm, 9 1/2"

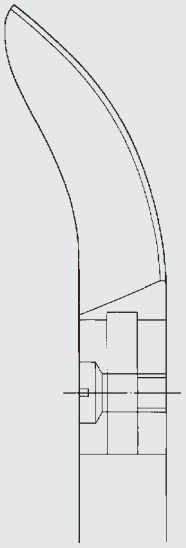




LISTON

FO646R

280 mm, 11"

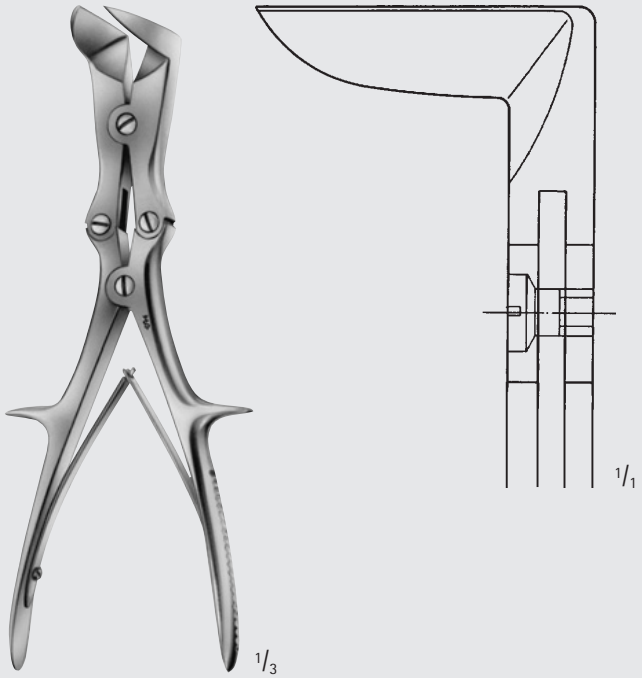




LISTON

FO647R

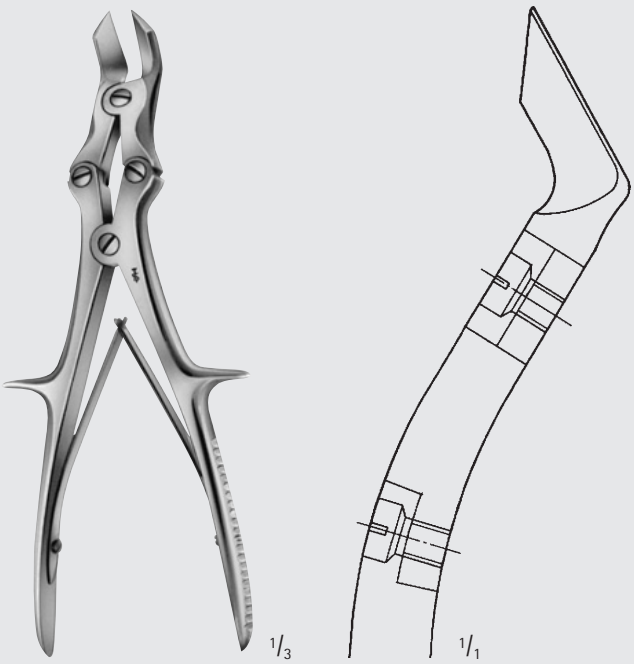
280 mm, 11"



LISTON-STILLE

FO648R

265 mm, 10 1/2"



LISTON-KEY-HORSLEY
(TUDOR EDWARDS)

FO649R

S-shaped for posterior rib ends
doppelt gebogen für hintere Rippenstümpfe
255 mm, 10"



BÖHLER

FO500R–FO502R

155 mm, 6"



MAYFIELD

FO511R

175 mm, 7"



MARQUARDT

FO520R

200 mm, 8"



FO514R–FO515R

180 mm, 7"



RUSKIN

FO518R

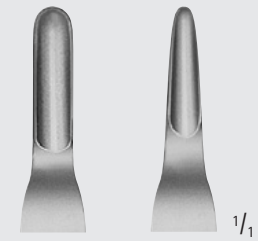
190 mm, 7 1/2"



RÖTTGEN-RUSKIN

FO521R

240 mm, 9 1/2"



1/1

FO526R FO527R



1/2

LEKSELL

FO526R–FO527R

245 mm, 9 3/4"



1/1

FO522R FO523R

1/2

ECHLIN

FO522R–FO523R

230 mm, 9"



1/1

1/2

FRYKHOLM

FO525R

240 mm, 9 1/2"



STILLE

FO530R

230 mm, 9"



LEKSELL-STILLE

FO532R

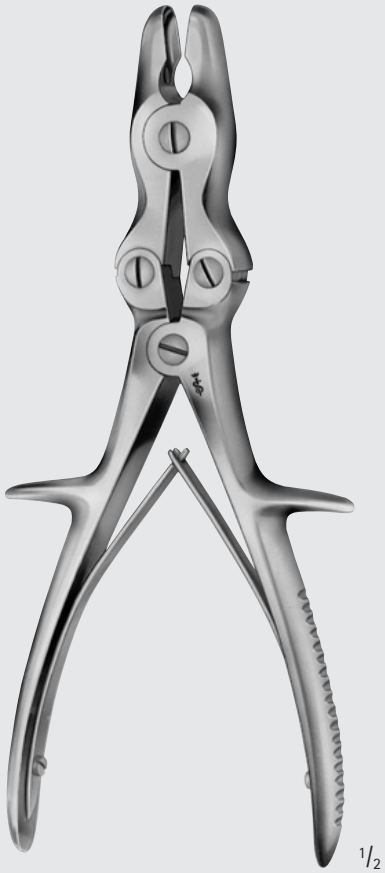
240 mm, 9 1/2"



STILLE-RUSKIN

FO534R

240 mm, 9 1/2"



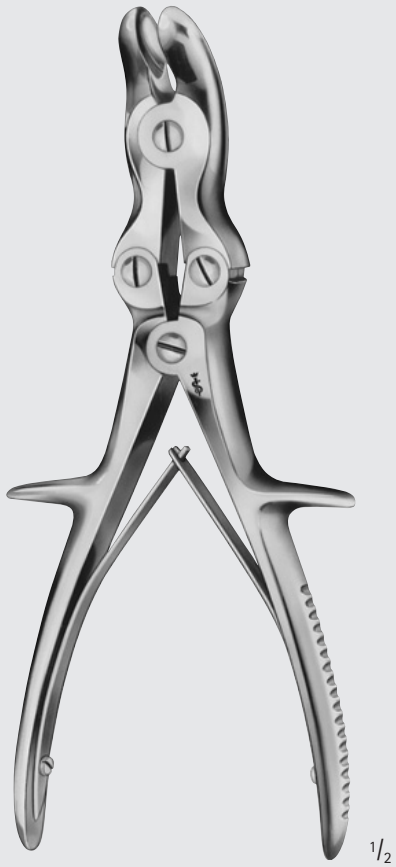
1/1

1/2

LUER-STILLE

FO550R

225 mm, 9"



1/1

1/2

LUER-STILLE

FO551R

225 mm, 9"



LUER-STILLE

FO566R

270 mm, 10 3/4"



SEMB

FO555R

240 mm, 9 1/2"



1/2





1/1

FO570R

FO572R

SAUERBRUCH-CORYLLOS

FO570R–FO572R

310 mm, 12 3/8"



FO120R
200 mm, 8"



LANGENBECK
FO127R
205 mm, 8"



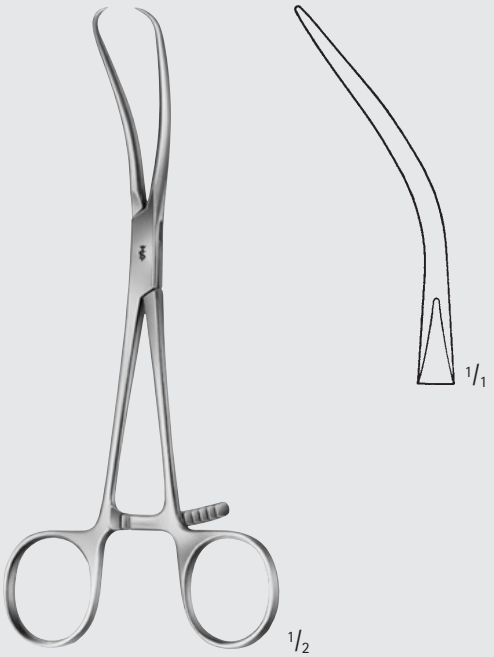
FERGUSSON
FO130R
205 mm, 8"



SEMB
FO135R
190 mm, 7 1/2"



SEMB
FO136R
190 mm, 7 1/2"



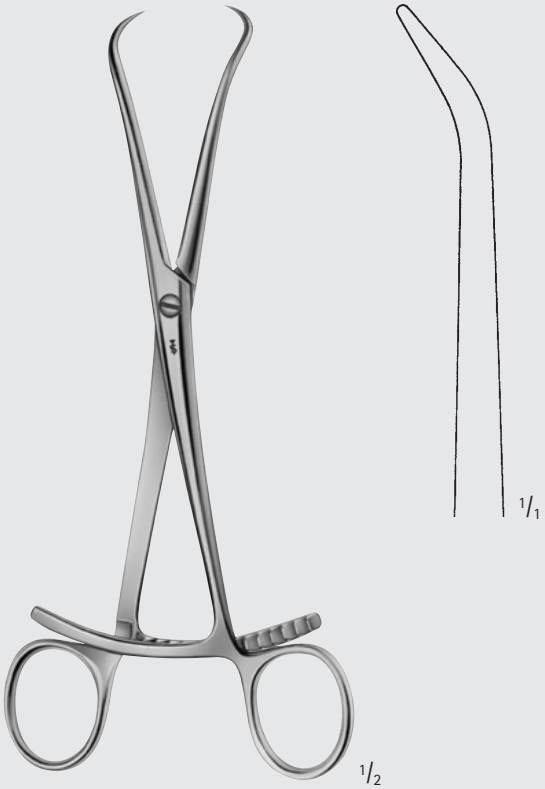
REILL

FO116R

Reposition forceps

Repositionszange

170 mm, 6 3/4"



FO118R

Reposition forceps

Repositionszange

205 mm, 8"



KY002S–KY015S

Wire, soft, tissue compatible, in coils of 10 m
Material used for implants: stainless steel acc. to DIN 17 443 resp. ISO 5832/I grade B (AISI 316 LVM)
Draht, weich, gewebeverträglich, in Ringen zu 10 m
Implantatwerkstoff: Nichtrostender Stahl nach DIN 17 443 bzw. ISO 5832/I grade B (AISI 316 LVM)

Diam. / Ø	0.2 mm	0.3 mm	0.4 mm	0.5 mm	0.6 mm	0.7 mm	0.8 mm	0.9 mm	1.0 mm	1.2 mm	1.5 mm
	KY002S	KY003S	KY004S	KY005S	KY006S	KY007S	KY008S	KY009S	KY010S	KY012S	KY015S
Gauge	35	30	27	25	23	22	21	20	19	18	17


1/1

ORMROD-SCHMITT

KY100S

Ligature disc
Ligaturplättchen
Material used for implants: stainless steel acc. to DIN 17 443 resp. ISO 5832/I grade B (AISI 316 LVM)
Implantatwerkstoff: Nichtrostender Stahl nach DIN 17 443 bzw. ISO 5832/I grade B (AISI 316 LVM)


1/2


1/1

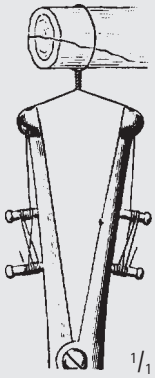
Movable tip made of **material used for implants.** While twisting the movable head remains stable, therefore the wire will not slip off.
Spannbuchse aus **Implantatwerkstoff,** drehbar gelagerte Kopfscheibe.
Die drehbar gelagerte Kopfscheibe dreht sich während des Quirlvorgangs nicht mit.
Dadurch wird ein Abscheren des Cerclage-Drahts vermieden.

LOUTE

KY220S

Wire tightener, improved pattern, with movable tip, for wires up to 1.0 mm diam.
Drahtspanner, verbessertes Modell, mit an der Spitze eingebauter beweglicher Drahtspannbuchse für Draht bis 1,0 mm Ø
220 mm, 8 3/4"


1/3


1/1

DEMEL

KY225R

Wire tightening and twisting forceps
Drahtspannzange
270 mm, 10 3/4"



ANGLE

DP540R

130 mm, 5 1/8"

for soft wire up to diam.	0.5 mm
für weichen Draht bis Ø	0,5 mm
for hard wire up to diam.	0.3 mm
für harten Draht bis Ø	0,3 mm



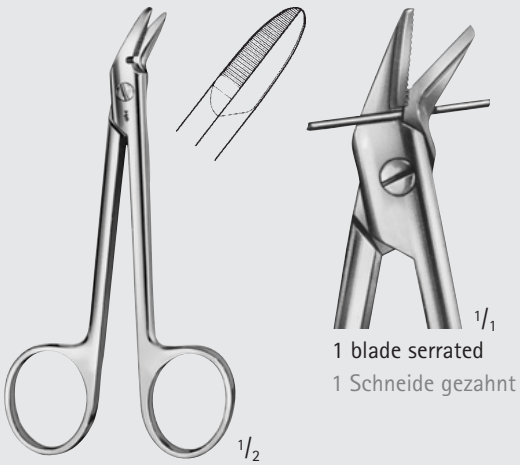
spezialvergütete Schneiden
specially hardened cutting edges

ANGLE

DP541R

130 mm, 5 1/8"

	0.6 mm
	0,6 mm
	0.4 mm
	0,4 mm



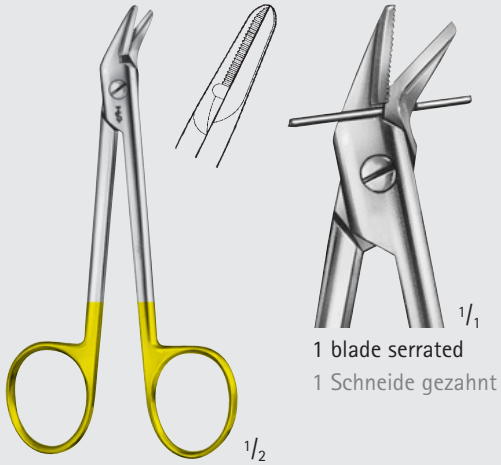
1 blade serrated
1 Schneide gezahnt

DP551R

120 mm, 4 3/4"

for soft wire up to diam.	1.2 mm
für weichen Draht bis Ø	1,2 mm
for hard wire up to diam.	0.6 mm
für harten Draht bis Ø	0,6 mm

spezialvergütete Schneiden
specially hardened cutting edges



1 blade serrated
1 Schneide gezahnt

DP552R

120 mm, 4 3/4"

	1.2 mm
	1,2 mm
	0.8 mm
	0,8 mm





Blades serrated
Schneiden gezahnt

HARVEY

BC815R

125 mm, 5"

for soft wire up to diam.	0.4 mm
für weichen Draht bis Ø	0,4 mm
for hard wire up to diam.	0.3 mm
für harten Draht bis Ø	0,3 mm



DP501R

150 mm, 6"

	1.5 mm
	1,5 mm
	1.0 mm
	1,0 mm



DP505R

160 mm, 6 1/4"

for soft wire up to diam.	1.5 mm
für weichen Draht bis Ø	1,5 mm
for hard wire up to diam.	1.2 mm
für harten Draht bis Ø	1,2 mm



spezialvergütete Schneiden
specially hardened cutting edges

DP530R

140 mm, 5 1/2"

	1.5 mm
	1,5 mm
	1.0 mm
	1,0 mm



1/1

spezialvergütete Schneiden
specially hardened cutting edges

1/2

LX156R
235 mm, 9 1/4"

for soft wire up to diam.	3.0 mm
für weichen Draht bis Ø	3,0 mm
for hard wire up to diam.	2.2 mm
für harten Draht bis Ø	2,2 mm



1/1

spezialvergütete Schneiden
specially hardened cutting edges

1/2

HARVEY

LX157R
235 mm, 9 1/4"

3.0 mm	
3,0 mm	
2.2 mm	
2,2 mm	

INCHES





spezialvergütete Schneiden
specially hardened cutting edges

1/2

LX149R

angled slender pattern for wire removal after sternum suture

abgewinkelte schlanke Form zur Drahtentfernung nach Sternumnaht

170 mm, 6 3/4"

for soft wire up to diam.	0.9 mm
für weichen Draht bis Ø	0,9 mm
for hard wire up to diam.	-
für harten Draht bis Ø	-

MILLIMETERS





1/1

spezialvergütete Schneiden
specially hardened cutting edges

1/2

LX158R

Wire cutters, front- and lateral cutting action
Kopf- und Seitenschneider
180 mm, 7"

for soft wire up to diam.	2.0 mm
für weichen Draht bis Ø	2,0 mm
for hard wire up to diam.	1.5 mm
für harten Draht bis Ø	1,5 mm





1/1

spezialvergütete Schneiden
specially hardened cutting edges

1/2

REILL

LX159R

for cutting off wires close to the bone
Schneiden gebogen, zum Abzwicken direkt am Knochen
175 mm, 7"

2.0 mm	
2,0 mm	
1.5 mm	
1,5 mm	



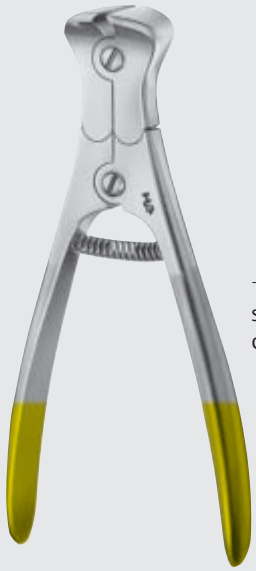


spezialvergütete Schneiden
specially hardened cutting edges

DP520R

1/2 145 mm, 5 3/4"

for soft wire up to diam.	1.5 mm
für weichen Draht bis Ø	1,5 mm
for hard wire up to diam.	1.0 mm
für harten Draht bis Ø	1,0 mm





spezialvergütete Schneiden
specially hardened cutting edges

LX150R

1/2 145 mm, 5 3/4"

2.0 mm	
2,0 mm	
1.5 mm	
1,5 mm	





spezialvergütete Schneiden
specially hardened cutting edges

LX152R

1/2 220 mm, 8 3/4"

for soft wire up to diam.	3.0 mm
für weichen Draht bis Ø	3,0 mm
for hard wire up to diam.	2.0 mm
für harten Draht bis Ø	2,0 mm





spezialvergütete Schneiden
specially hardened cutting edges

LX163R

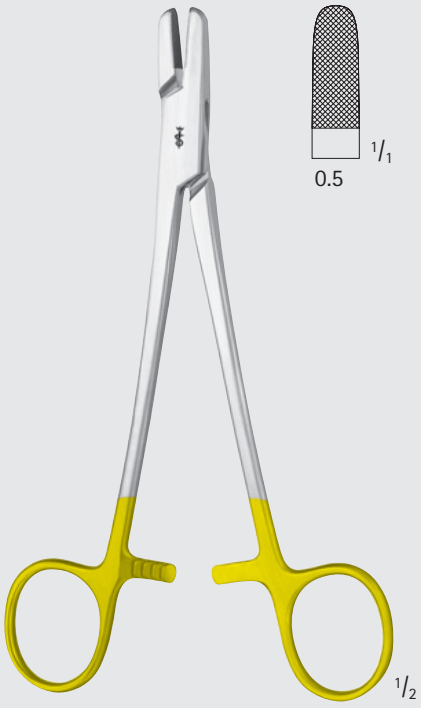
1/2 165 mm, 6 1/2"

3.5 mm	
3,5 mm	
2.5 mm	
2,5 mm	

with hard metal inserts
mit Hartmetallbacken



BM113R
for sternum suture
für die Sternumnaht
175 mm, 7"



BERRY
MD456R
Wire twister, ligature forceps
Drahtspannzange, Ligaturzange
185 mm, 7 1/4"



LX176R
Holding forceps for cerclage wire, with lateral jaws to avoid wire slipping off
Drahtfasszange mit seitlichen Backen gegen Abrutschen des Drahtes
170 mm, 6 3/4"



BM110R
Wire twister, ligature forceps
Drahtspannzange, Ligaturzange
150 mm, 6"



BM111R
Wire twister, ligature forceps
Drahtspannzange, Ligaturzange
150 mm, 6"



BAUMGARTNER

BM112R
Wire twister, ligature forceps
Drahtspannzange, Ligaturzange
200 mm, 8"





1/1

with serrated jaws
beidseitig kariert

1/2

MARBURG MODELL

DP031R

140 mm, 5 1/2"





one jaw smooth
eine Seite glatt



1/1

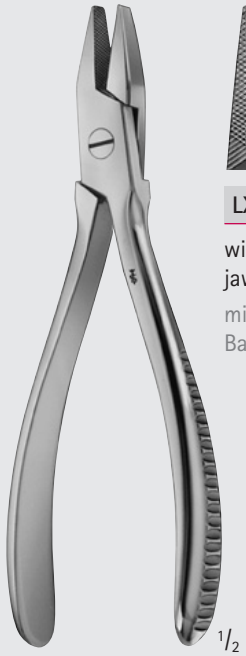
one jaw serrated
eine Seite kariert

1/2

GOSLEE

DP035R

140 mm, 5 1/2"







1/1

LX170R

with serrated jaws
mit gerieften Backen

LX171R

with longitudinal and transversal grooves
mit Längs- und Querrillen

1/2

LX170R–LX171R

170 mm, 6 3/4"





1/1

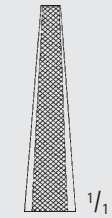
1/2

LX172R

190 mm, 7 1/2"



LX181R–LX183R



1/1

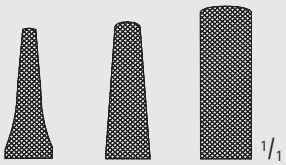
LX181R

Round pliers

Rundzange

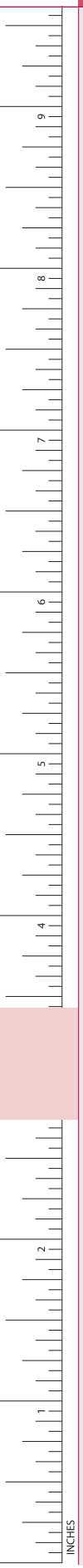
180 mm

7"



1/1

LX185R	LX182R	LX183R
Extraction pliers for wires		
Extraktionszangen für Bohrdrähte		
145 mm	180 mm	180 mm
5 3/4"	7"	7"


INCHES
1
2
4
5
6
7
8
9

Retractors
Sperrer



Retraction Systems, Retractors, Hooks
Sperrersysteme, Spreizer und Wundhaken



SELLORS

FB840R

Rib spreader and contractor with turnable blades

Rippensperrer und -kontraktor mit drehbaren Klauen

200 mm, 8"



BAILEY

FB844R

150 mm, 6"



FB841R

for children

für Kinder



FB842R

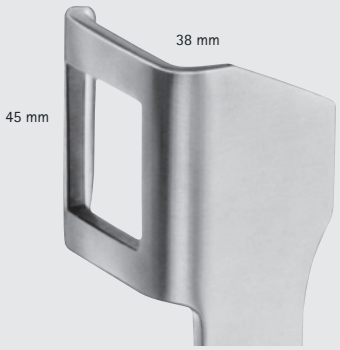
for adults

für Erwachsene

BAILEY

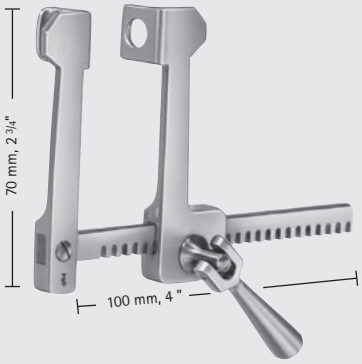
FB841R-FB842R

200 mm, 8"



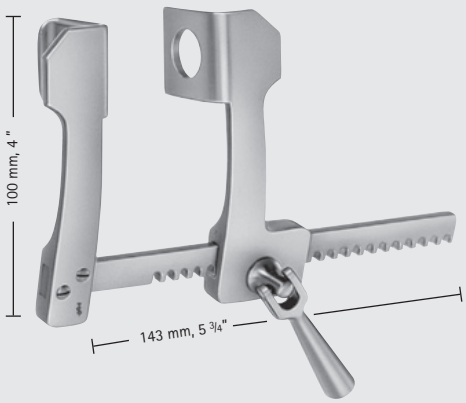
Dimensions for blade size of rib spreaders:
1st number = depth
2nd number = width
Example: 38 x 45 mm

Maßangaben für Blattgrößen der Rippensperrer
1. Zahl = Tiefe
2. Zahl = Breite
Beispiel: 38 x 45 mm



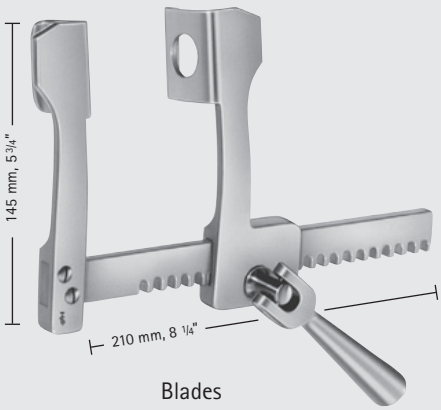
Blades
FINOCHIETTO Blätter

FC040A	12 x 15 mm



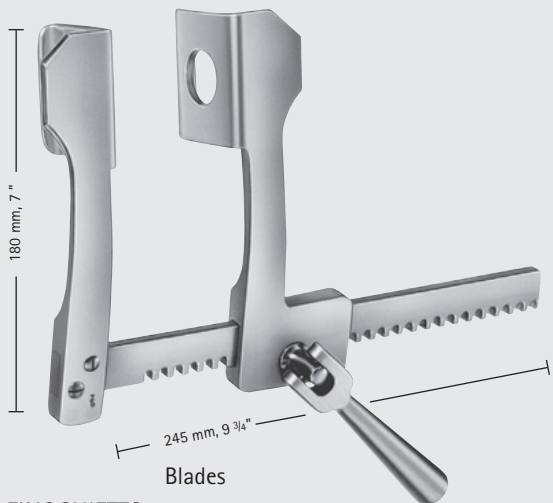
Blades
FINOCHIETTO Blätter

FC041A	28 x 30 mm



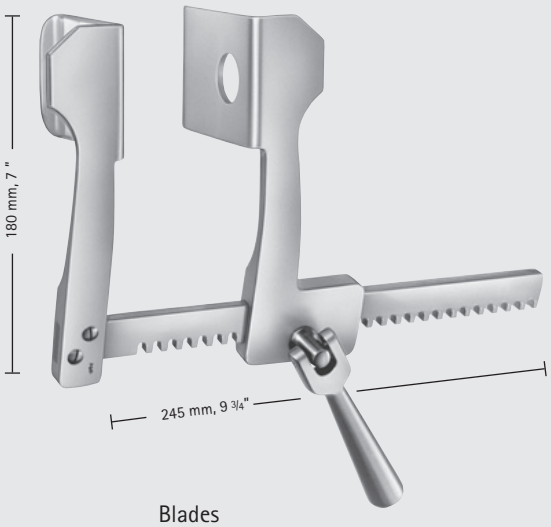
Blades
FINOCHIETTO Blätter

FC042A	31 x 45 mm



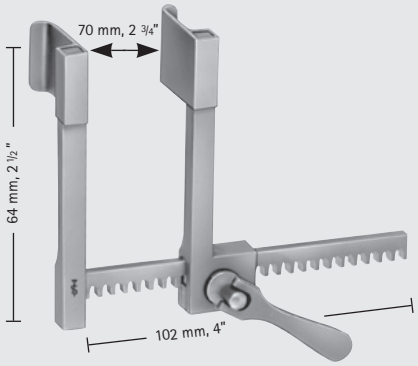
Blades
FINOCHIETTO Blätter

FC043A	42 x 61 mm



Blades
FINOCHIETTO Blätter

FC044A 74 x 64 mm

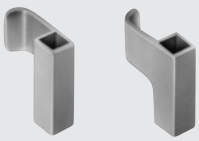


STRUCK

FB852R

Rib spreader for infants complete, consisting of:
FB853R Retractor only
FB857R Blades (pair)
FB858R Blades (pair)

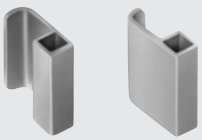
Rippensperrer für Kleinkinder komplett, bestehend aus:
FB853R Sperrer allein
FB857R Blätter (Paar)
FB858R Blätter (Paar)



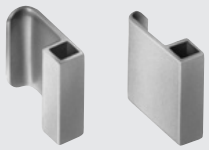
FB854R 10 x 10 mm
Blades
Blätter



FB855R 10 x 15 mm
Blades
Blätter



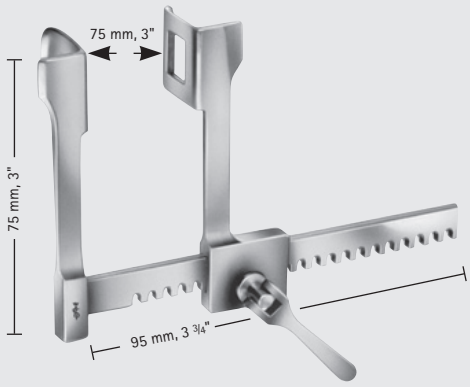
FB856R 10 x 20 mm
Blades
Blätter



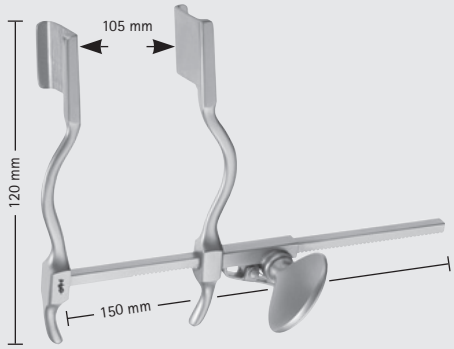
FB857R 15 x 20 mm
Blades
Blätter



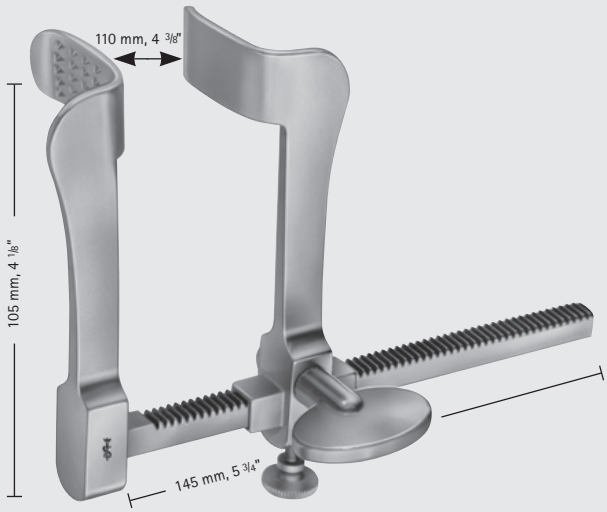
FB858R 20 x 20 mm
Blades
Blätter



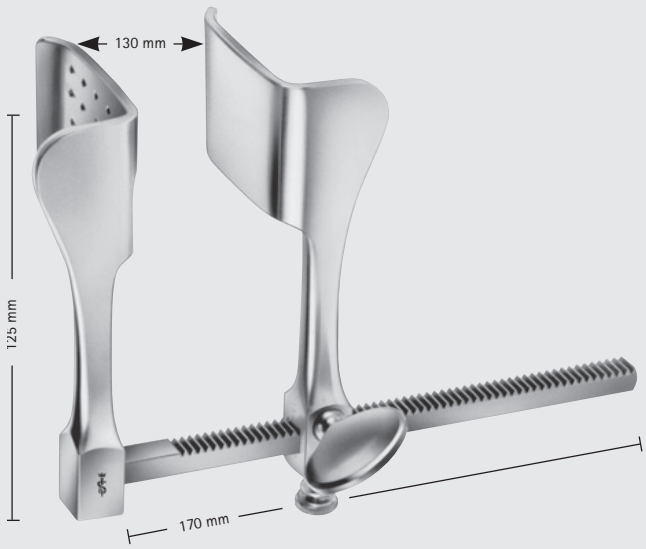
Blades
FINOCHIETTO Blätter
FB830R 18 x 21 mm



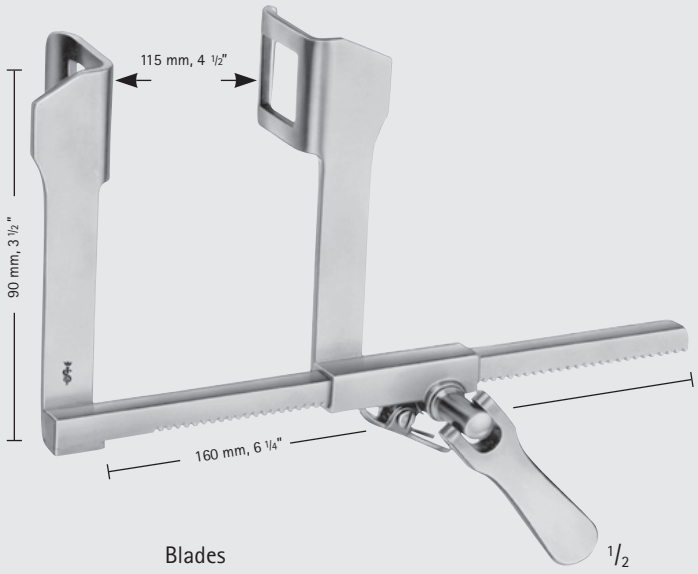
Blades
HERTZLER Blätter
BV512R 20 x 25 mm



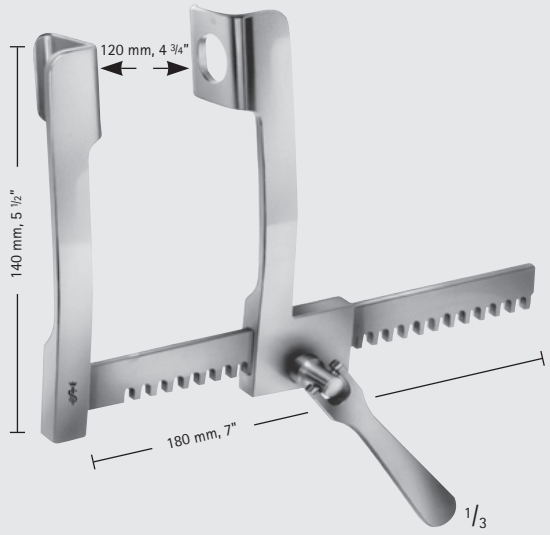
Blades
TUFFIER Blätter
FB847R 32 x 19 mm



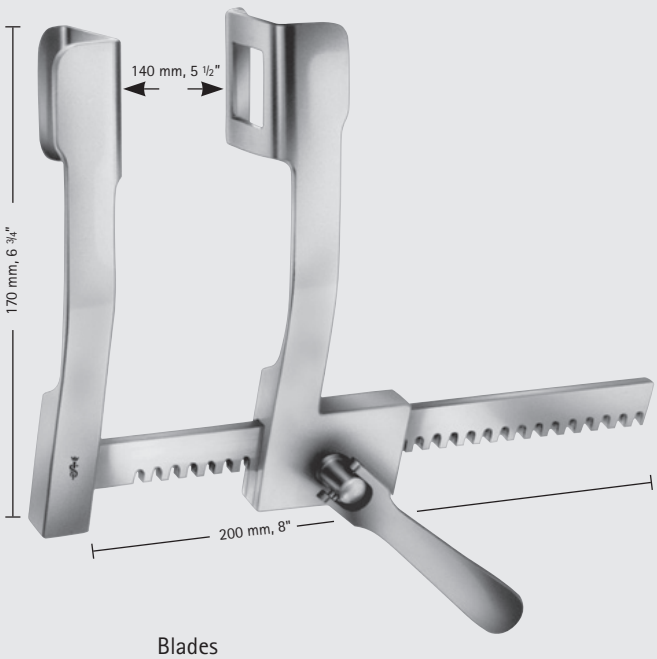
Blades
TUFFIER Blätter
FB800R 43 x 53 mm



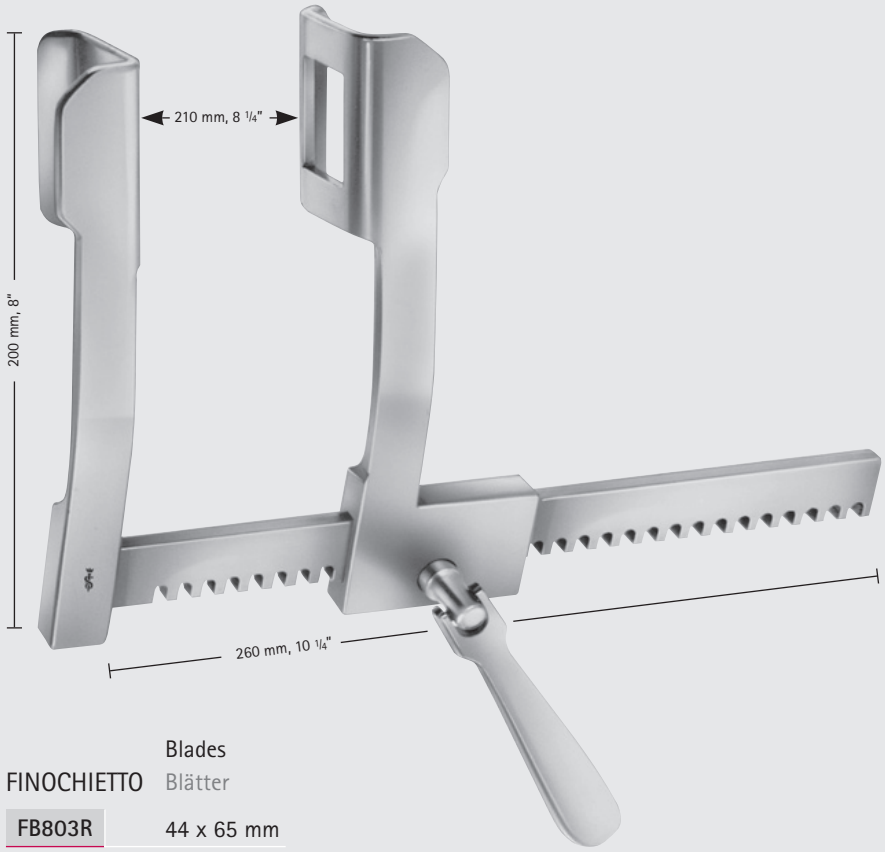
Blades
HAIGHT Blätter
FB835R 30 x 30 mm



Blades
FINOCHIETTO Blätter
FB836R 28 x 32 mm



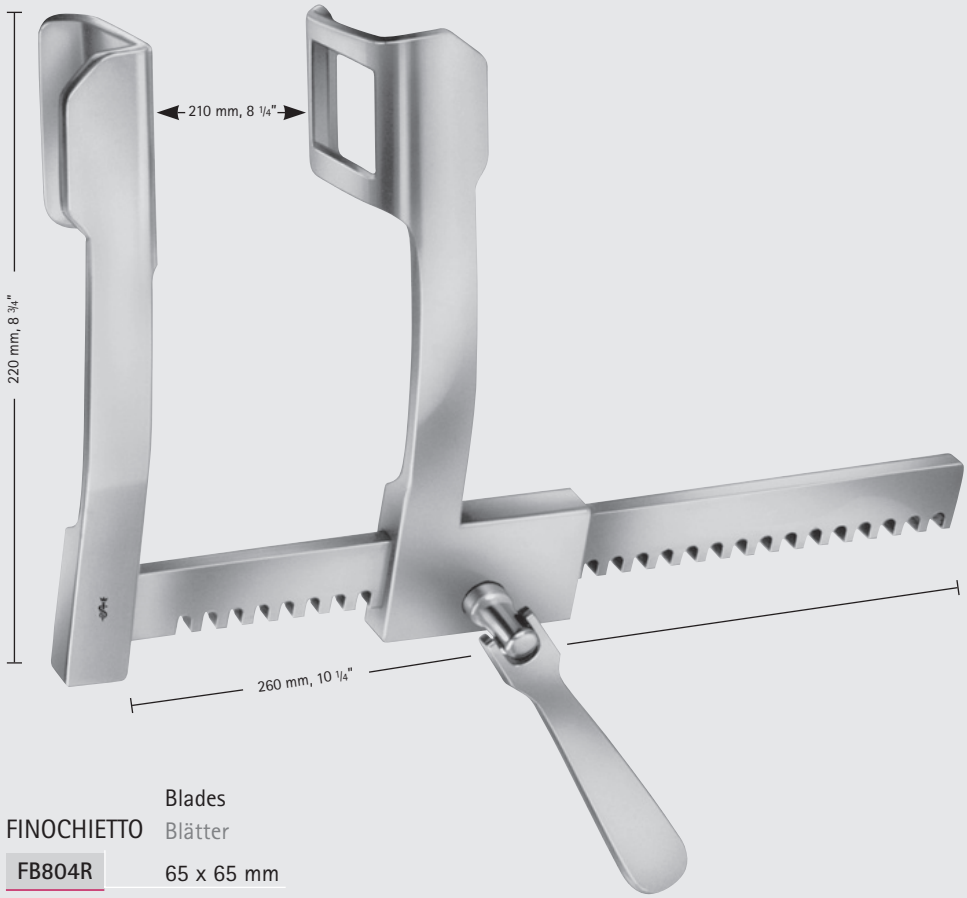
Blades
FINOCHIETTO Blätter
FB802R 36 x 45 mm



FINOCHIETTO

Blades
Blätter

FB803R 44 x 65 mm



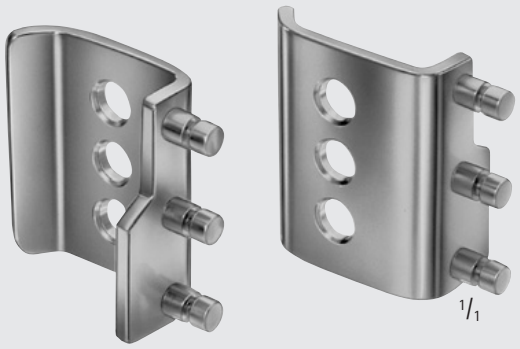
FINOCHIETTO

Blades
Blätter

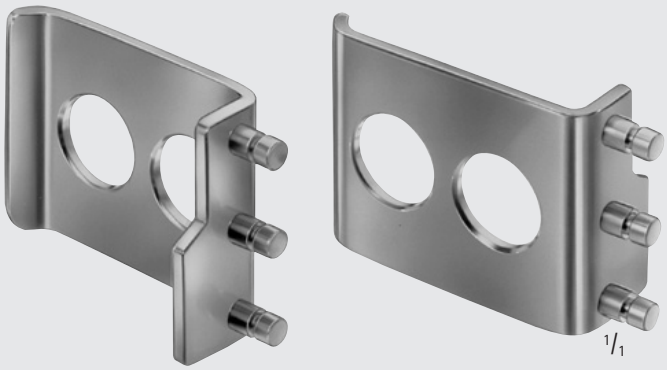
FB804R 65 x 65 mm

MILLIMETERS

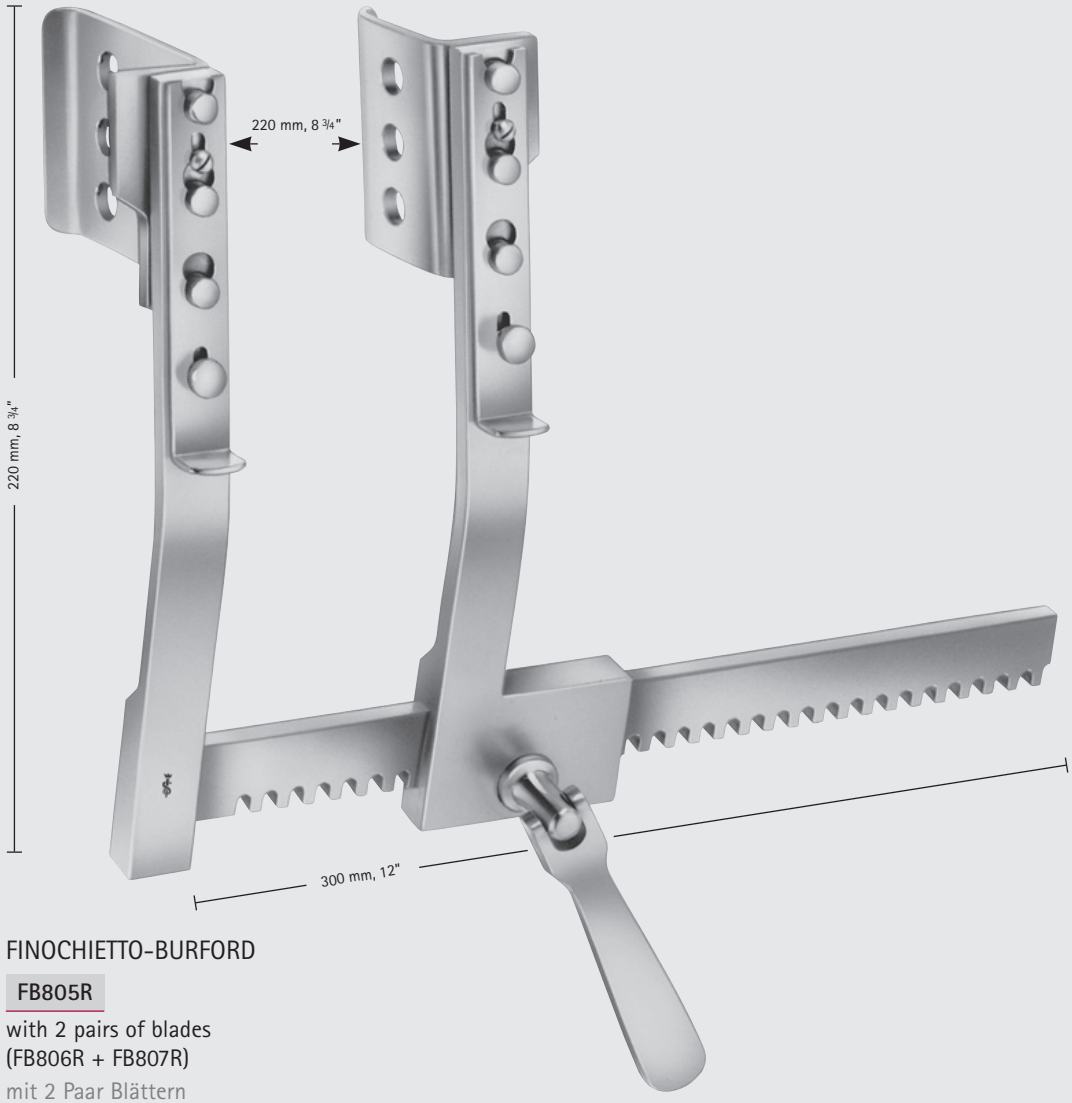
Sales unit of blades:
PAA = pair
Bestelleinheit der Blätter:
PAA = Paar



FB806R 45 x 64 mm
Blades
Blätter



FB807R 75 x 64 mm
Blades
Blätter



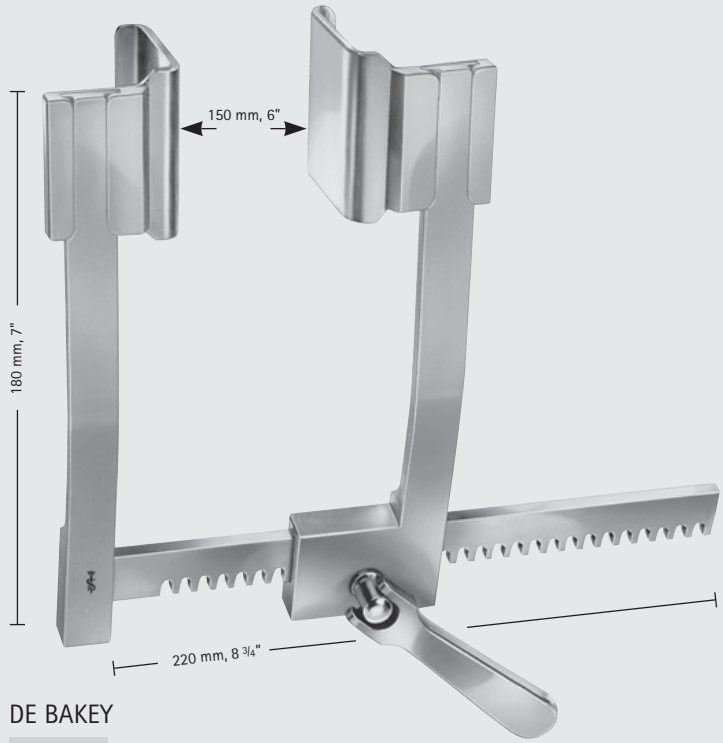
FINOCHIETTO-BURFORD

FB805R
with 2 pairs of blades
(FB806R + FB807R)
mit 2 Paar Blättern
(FB806R + FB807R)

Sales unit of blades:
PAA = pair
Bestelleinheit der Blätter:
PAA = Paar

Special advantages:
- Improved fixing system for interchangeable blades.
- No protruding parts, therefore no risk of catching sutures.

Besondere Vorteile:
- Blätter ohne Schrauben und Hebel austauschbar.
- Keine überstehenden Teile, glatte Flächen, daher kein Hängenbleiben von Ligaturfäden usw.



DE BAKEY

FB808R

Rib spreader complete,
consisting of:
FB809R Spreader only
FB810R Blades (pair)
FB811R Blades (pair)
FB812R Blades (pair)

Rippensperrer komplett,
bestehend aus:
FB809R Sperrer allein
FB810R Blätter (Paar)
FB811R Blätter (Paar)
FB812R Blätter (Paar)



FB810R 30 x 30 mm
Blades
Blätter



FB811R 40 x 40 mm
Blades
Blätter



FB812R 50 x 50 mm
Blades
Blätter

Rib Retractors
Rippensperrer

Special advantages:
- Improved fixing system for interchangeable blades.
- No protruding parts, therefore no risk of catching sutures.

Besondere Vorteile:
- Blätter ohne Schrauben und Hebel austauschbar.
- Keine überstehenden Teile, glatte Flächen, daher kein Hängenbleiben von Ligaturfäden usw.

Sales unit of blades:
PAA = pair

Bestelleinheit der Blätter:
PAA = Paar



1/1

FB813R 50 x 66 mm
Sternotomy blades
Sternotomieblätter



1/1

FB816R 60 x 60 mm
Blades
Blätter



1/1

FB817R 50 x 80 mm
Blades
Blätter



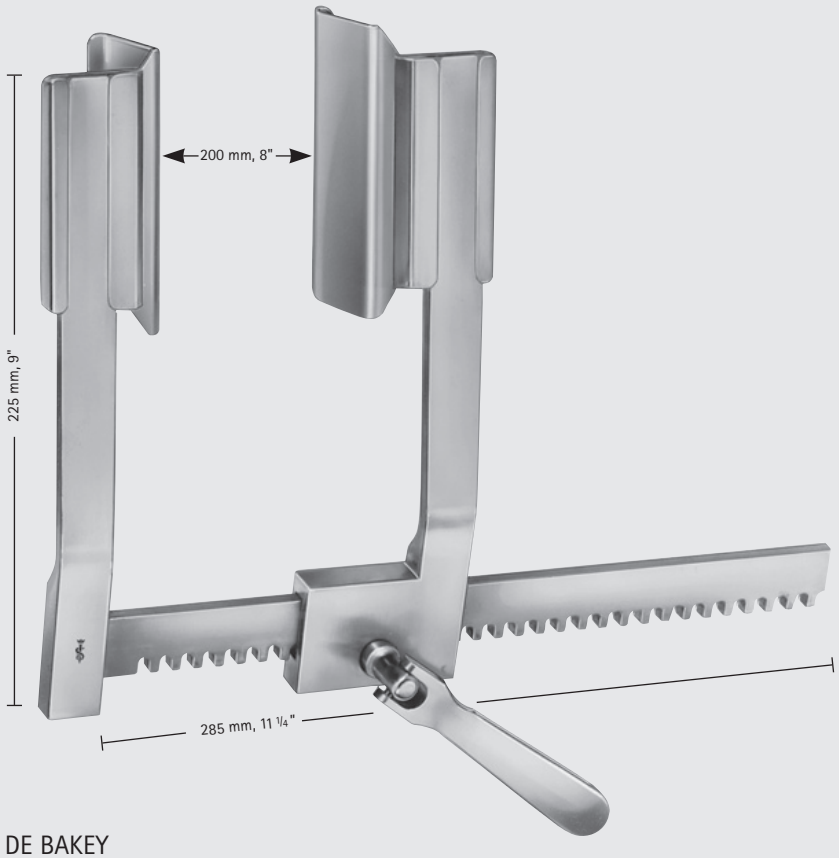
1/1

FB818R 40 x 100 mm
Blades
Blätter



1/1

FB819R 80 x 60 mm
Blades
Blätter

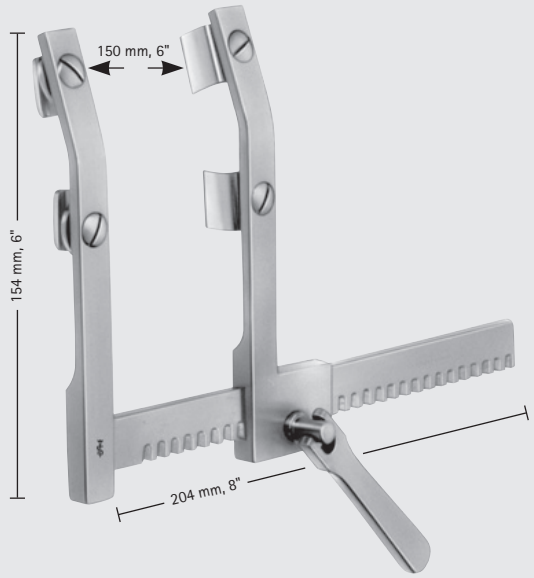


DE BAKEY

FB814R

Spreader complete, consisting of:
FB815R Spreader only
FB816R Blades (pair)
FB817R Blades (pair)
FB818R Blades (pair)

Rippensperrer komplett, bestehend aus:
FB815R Sperrer allein
FB816R Blätter (Paar)
FB817R Blätter (Paar)
FB818R Blätter (Paar)

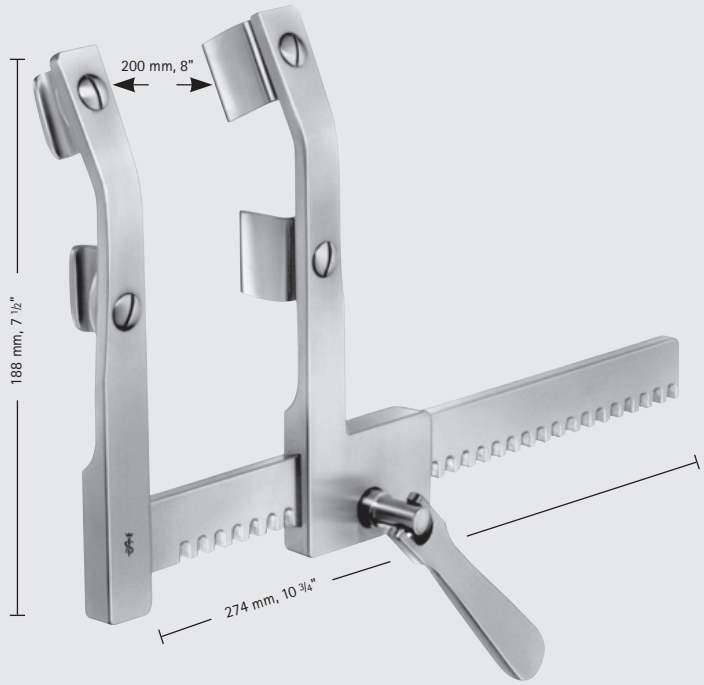


MORSE

FB845R

for children
with movable double blades
each blade 12 x 20 mm

für Kinder
mit beweglichen Doppelblättern
Blätter jeweils 12 x 20 mm

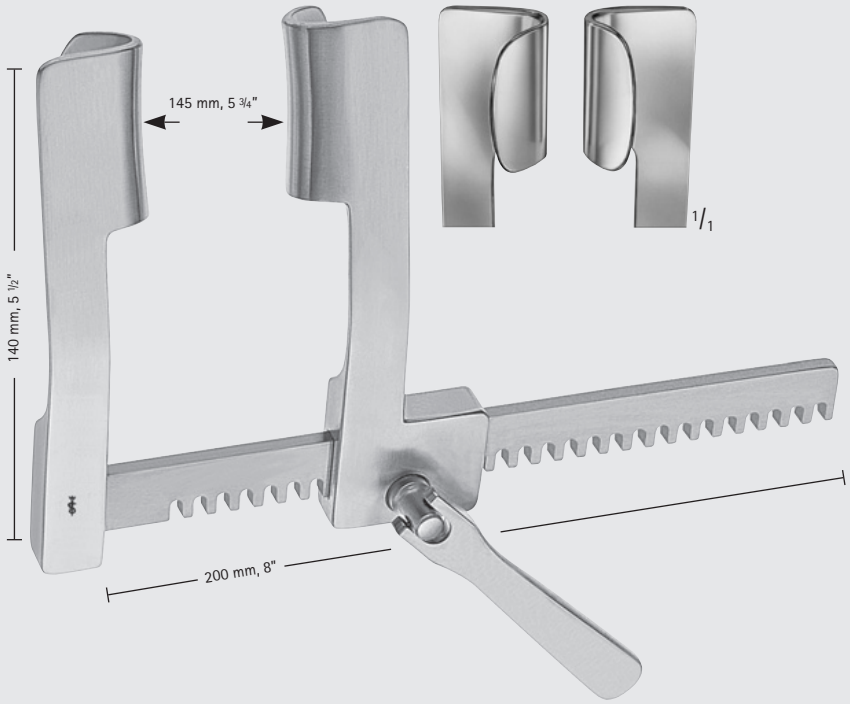


MORSE

FB846R

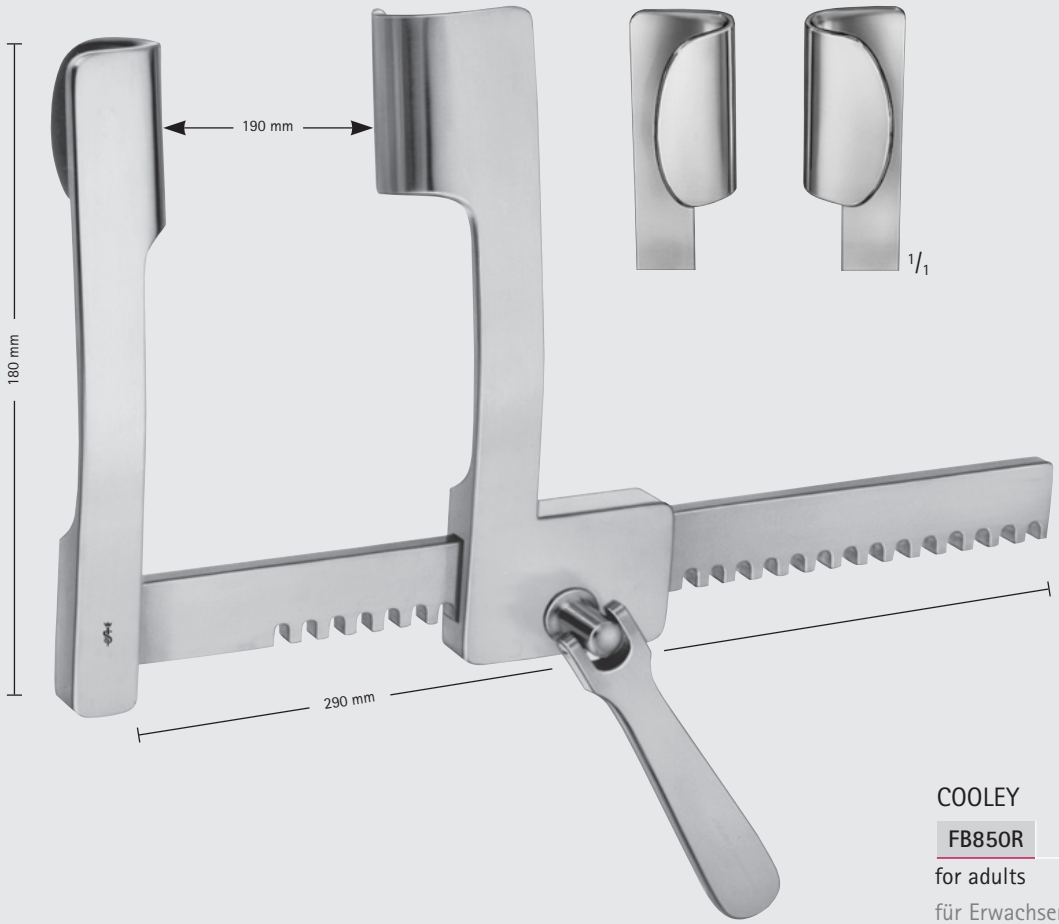
for adults
with movable double blades
each blade 19 x 29 mm

für Erwachsene
mit beweglichen Doppelblättern
Blätter jeweils 19 x 29 mm



	Blades
COOLEY	Blätter
FB851R	21 x 45 mm

for children
für Kinder



	Blades
COOLEY	Blätter
FB850R	32 x 50 mm

for adults
für Erwachsene

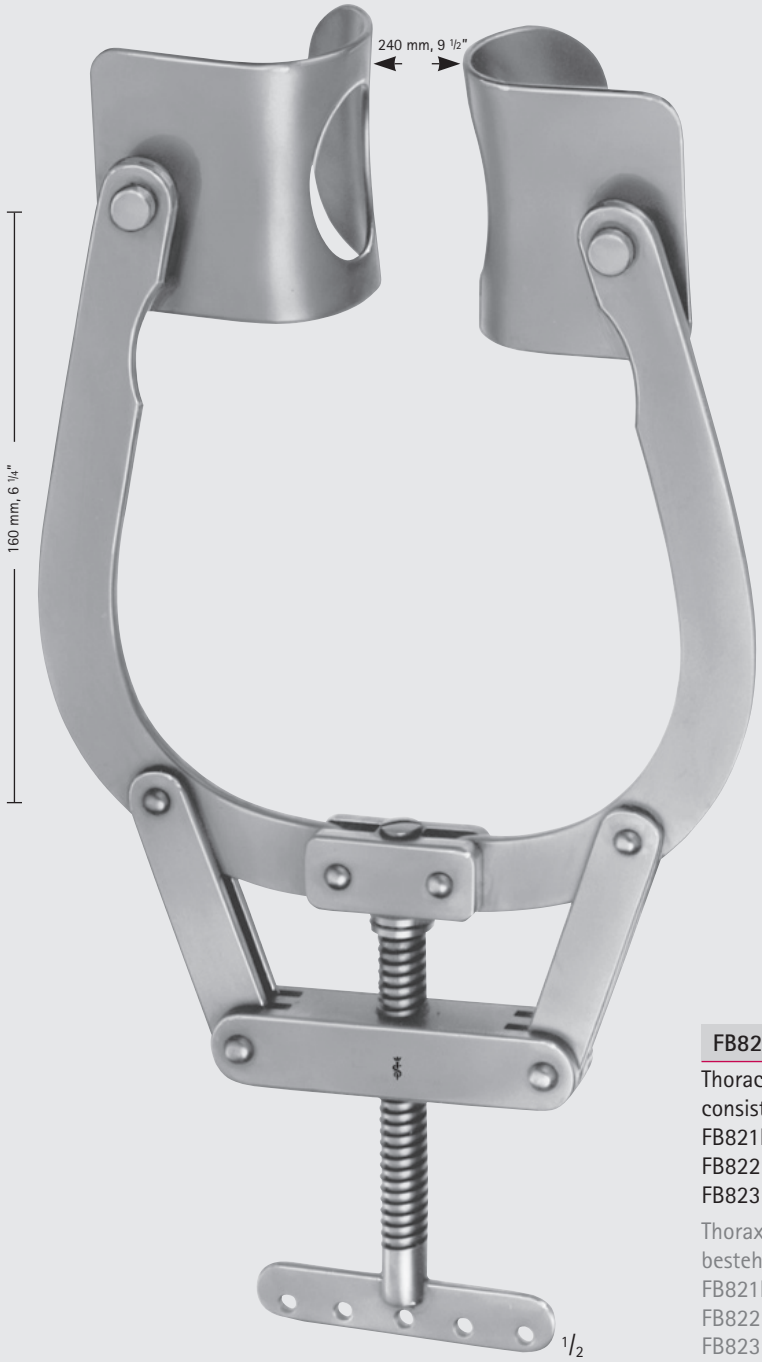
Sales unit of blades:
PAA = pair
Bestelleinheit der Blätter:
PAA = Paar



FB823R 75 x 75 mm
Blades
Blätter



FB822R 42 x 65 mm
Blades
Blätter



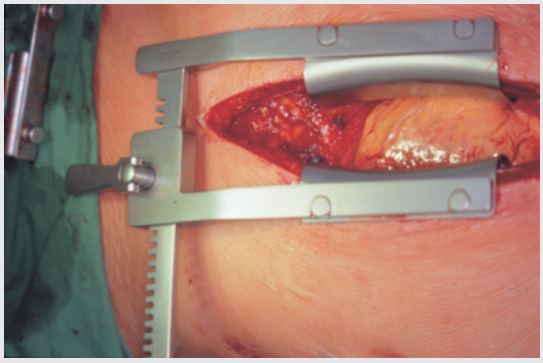
FB820R

Thoracic retractor (Mercedes-Retractor) complete, consisting of:
FB821R Retractor only
FB822R Blades (pair)
FB823R Blades (pair)

Thoraxsperrer (Mercedes-Sperrer) komplett, bestehend aus:
FB821R Sperrer allein
FB822R Blätter (Paar)
FB823R Blätter (Paar)

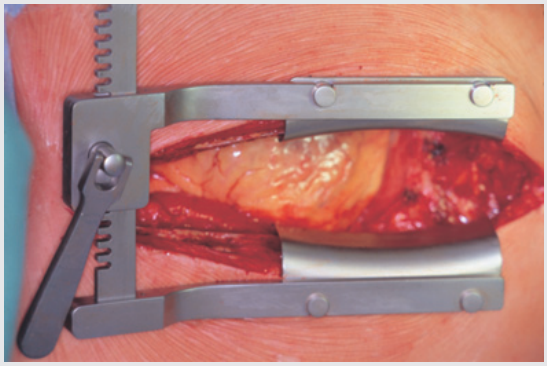
The spreader can be used optionally in cranial (picture 2, 2a) or caudal (picture 1, 1a) position. As the retractor is used in cranial position the bend up arms show away from the patient in order to protect the neck from pressure.

Der Sperrer kann optional nach kranial (Bild 2, 2a) und kaudal (Bild 1, 1a) eingesetzt werden, wobei beim Einsatz nach kranial die Aufbiegung der Arme nach oben, vom Patienten weg zeigt, um Druck auf den Hals zu vermeiden.



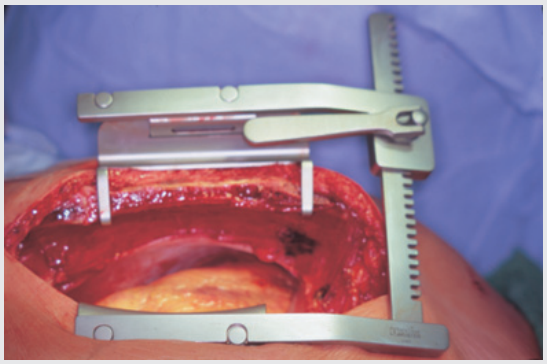
1

Used as sternum retractor (picture 1, 2)



2

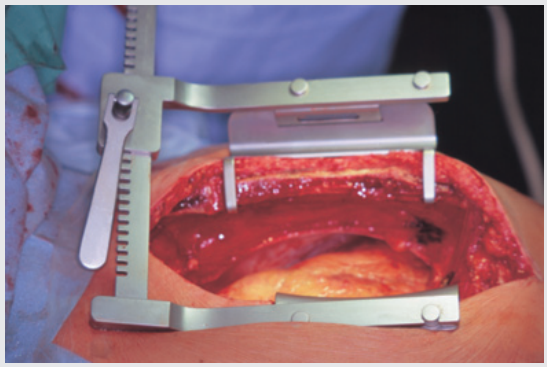
Einsatz als Sternumsperrer (Bild 1, 2)



1a

Used for preparation of the arteria mammaria interna (picture 1a, 2a).

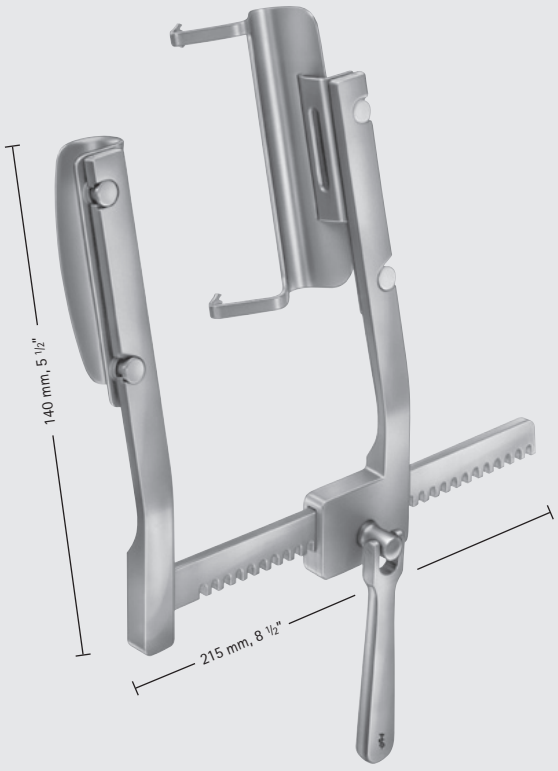
The side of the sternum, where the arteria mammaria interna shall be dissected is lifted up automatically due to the spreading effect of the retractor. The result is an easier preparation of the arteria mammaria interna.



2a

Einsatz zur Darstellung der Arteria mammaria interna (Bild 1a, 2a).

Die Seite des Sternums, auf der die Arteria mammaria interna präpariert werden soll, wird durch die Spreizwirkung des Sperrers automatisch angehoben. Das Ergebnis ist eine einfachere Präparation der Arteria mammaria interna.



FC060R

Mammaria spreader complete, consisting of:

FC061R Retractor only
FC062R Mammaria blade complete with holding blades left and right
FC063R Sternum blades (pair)
FC064R Sternum blades (pair)

Mammaria Sperrer komplett, bestehend aus:

FC061R Sperrer allein
FC062R Mammariablatt, komplett mit Aufnahmeblatt links und rechts
FC063R Sternumblätter (Paar)
FC064R Sternumblätter (Paar)



FC062R

Mammaria blade, complete

Mammariablatt, komplett



FC063R 30 x 100 mm

Sternum blades

Sternumblätter



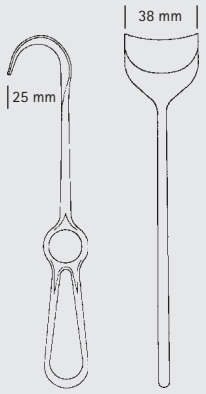
FC064R 40 x 100 mm

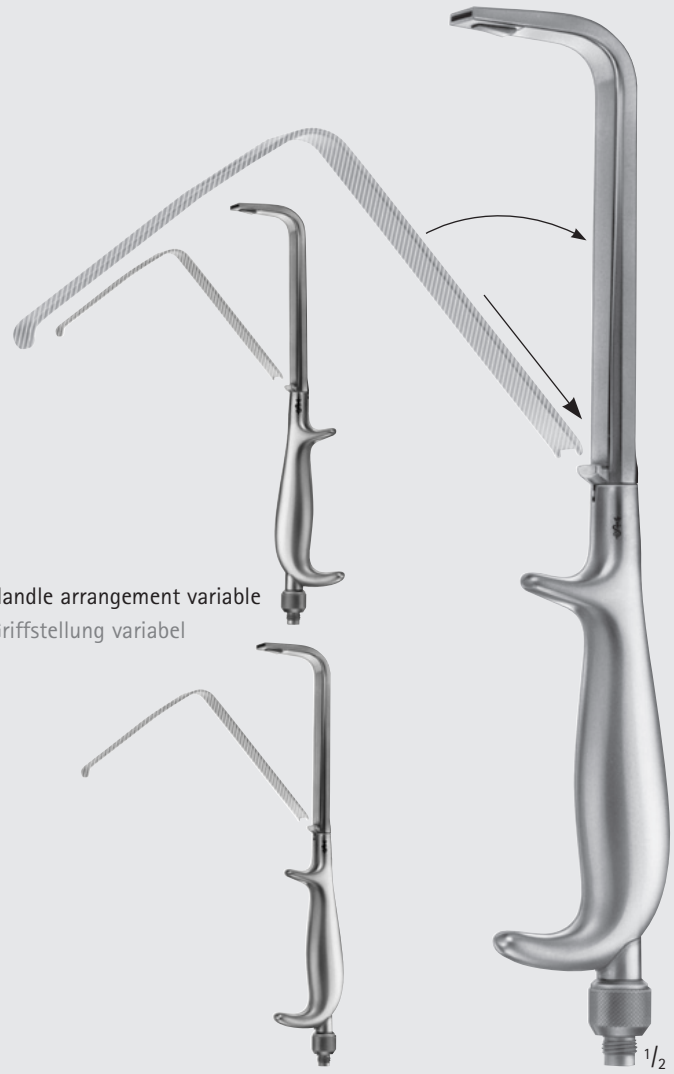
Sternum blades

Sternumblätter

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





Handle arrangement variable
Griffstellung variabel

Vario retractor system with integrated cold light, for additional intensive illumination of deep and complicated operation fields.

- **To be used with Aesculap light source,** see page 276 - 279

Vario-Wundhaken-System mit integriertem Kaltlicht, zur zusätzlichen, intensiven Ausleuchtung des Operationsfeldes, speziell bei komplizierten, in die Tiefe gehenden Eingriffen.

- **Zu verwenden mit Aesculap Lichtquelle,** siehe Seite 276 - 279



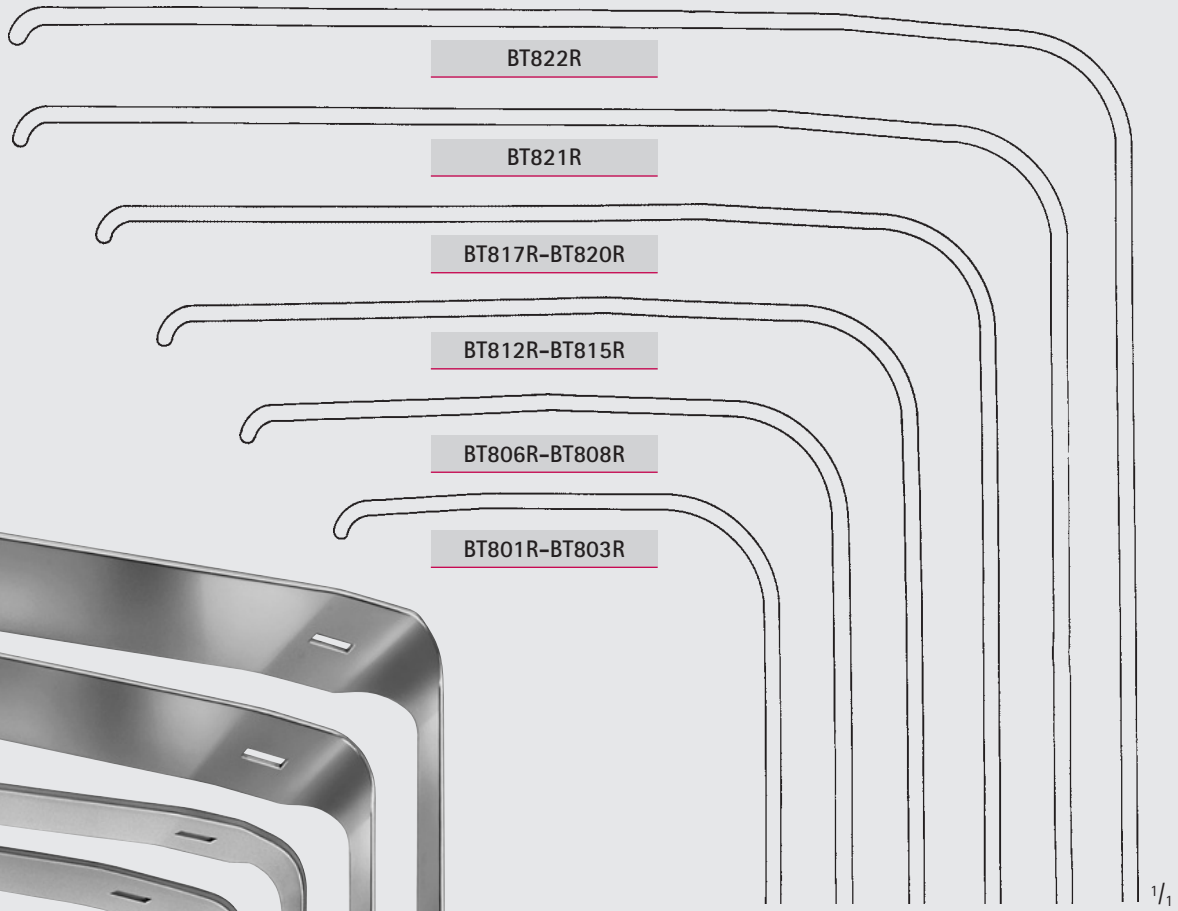
1/2

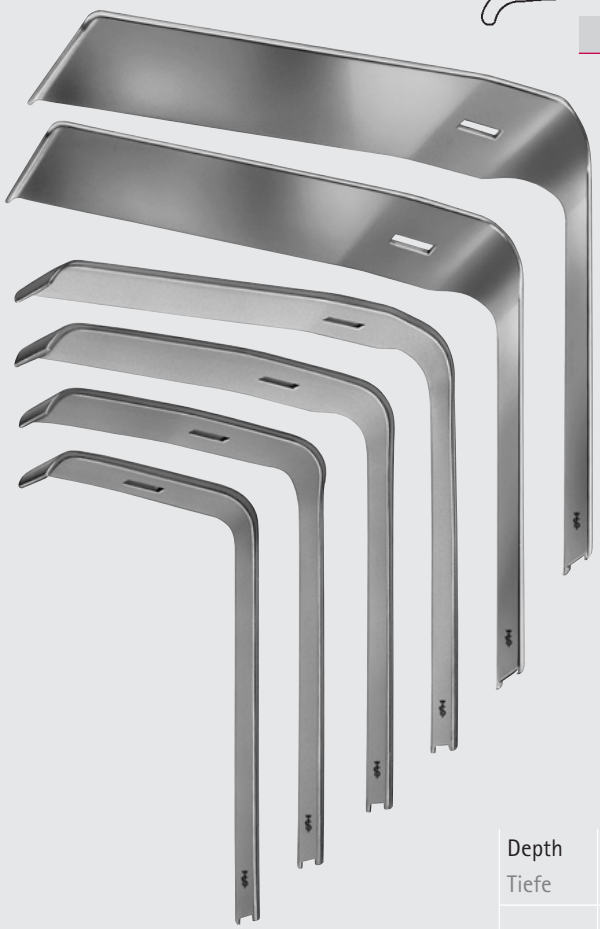
BT800R

Handle with cold light carrier for retractor blades
Handgriff mit Kaltlichtleiter, zur Aufnahme von Wundhakenblätter
280 mm, 11"

BT799R

Handle with cold light carrier for retractor blades
Handgriff mit Kaltlichtleiter, zur Aufnahme von Wundhakenblättern
180 mm, 7"





Vario retractor system
Vario-Wundhaken-System

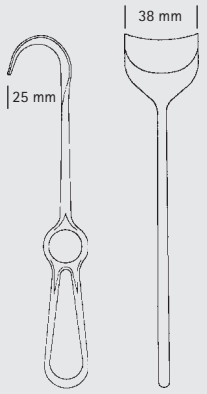
BT801R–BT822R

Retractor blades for handles BT799R and BT800R
Wundhakenblätter
passend auf die Handgriffe BT799R und BT800R

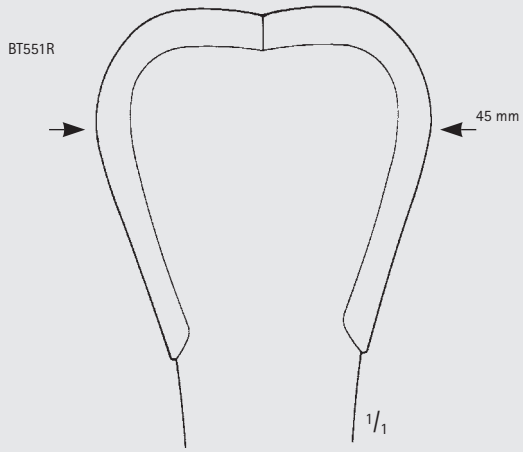
Depth / Tiefe	Width / Breite						
	14 mm	18 mm	22 mm	26 mm	30 mm	40 mm	50 mm
55 mm	BT801R	BT802R	BT803R				
75 mm	BT806R	BT807R	BT808R				
95 mm		BT812R	BT813R	BT814R	BT815R		
115 mm		BT817R	BT818R	BT819R	BT820R		
135 mm						BT821R	
145 mm							BT822R

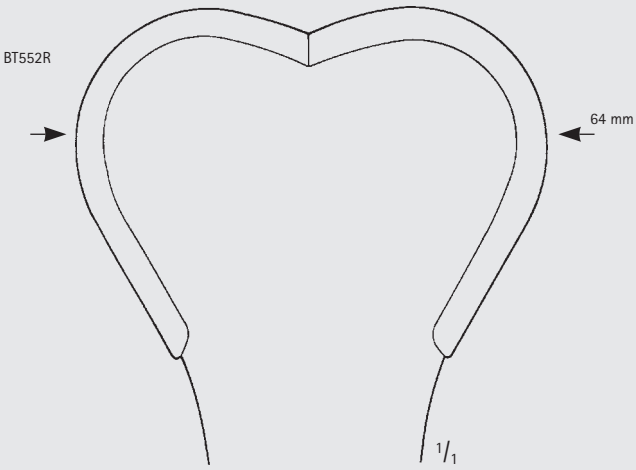
Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





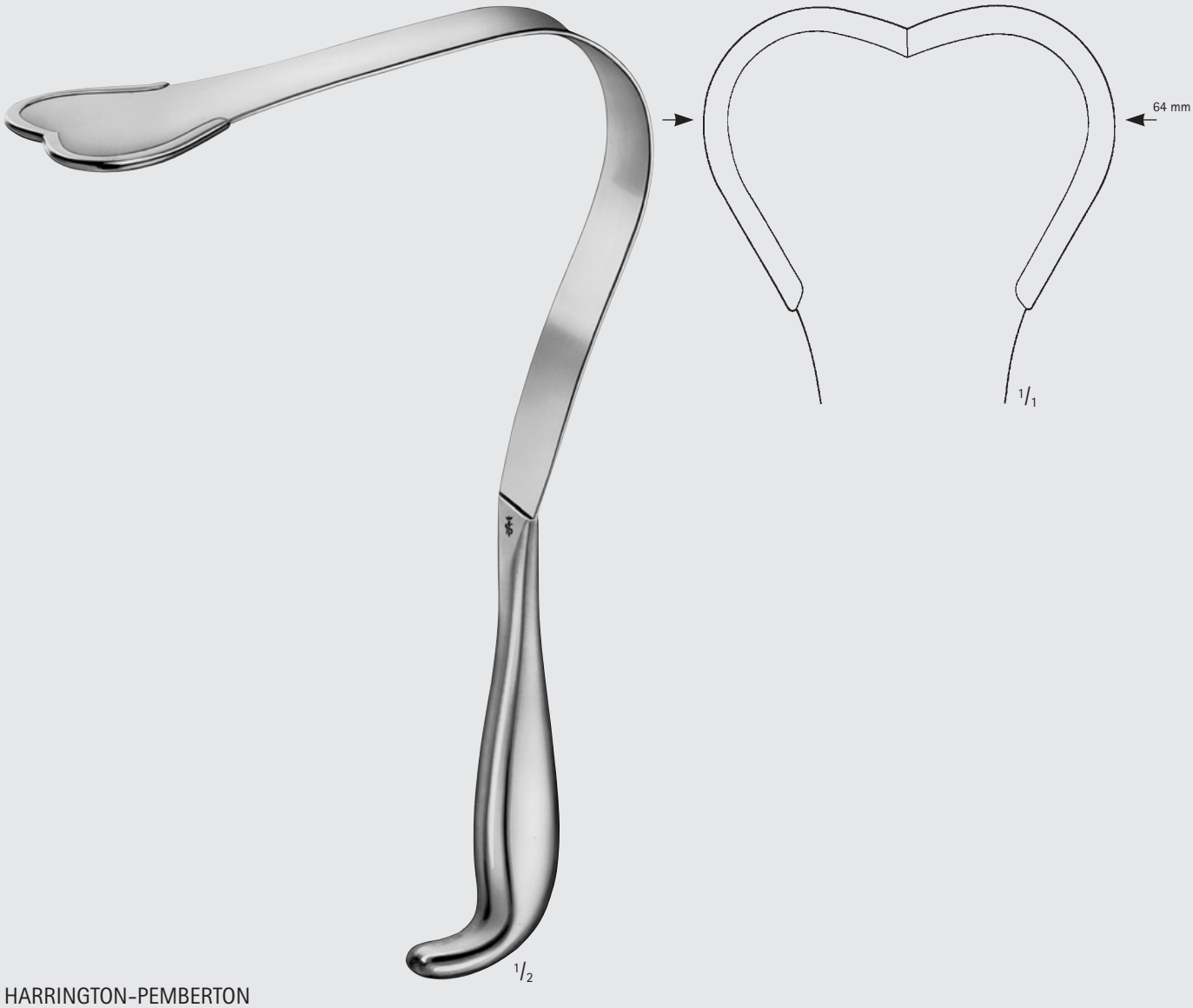




HARRINGTON

BT551R	123 x 45 mm
BT552R	123 x 64 mm

flexible
federnd
295 mm, 11 3/4"



HARRINGTON-PEMBERTON

BT553R 175 x 64 mm

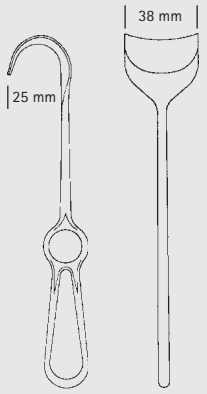
flexible

federnd

295 mm, 11 3/4"

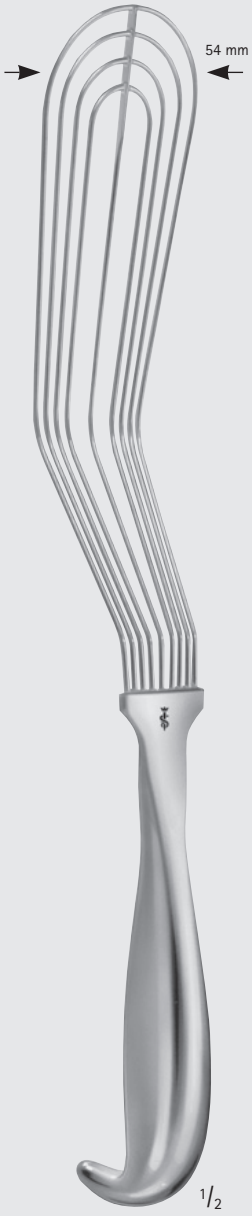
Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite

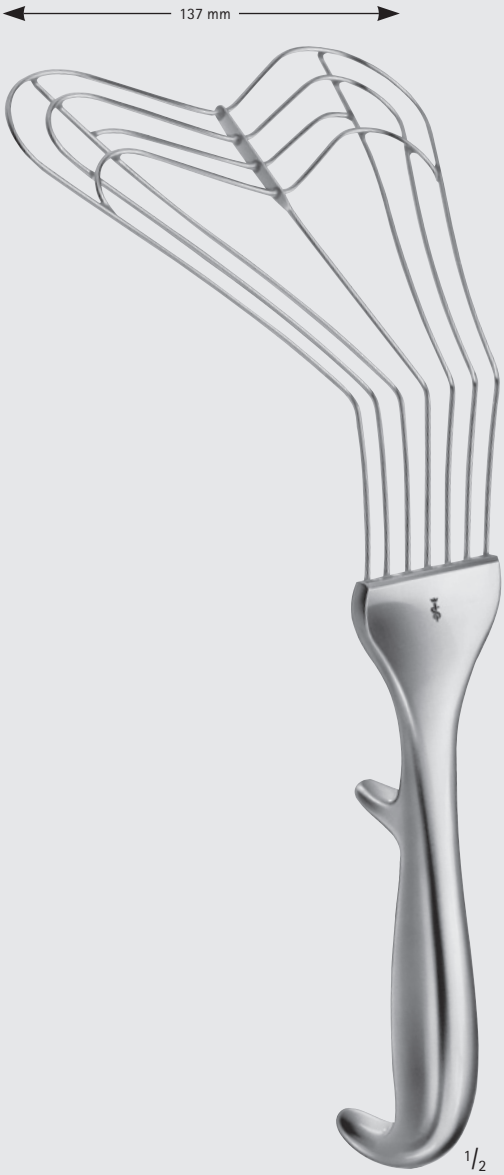




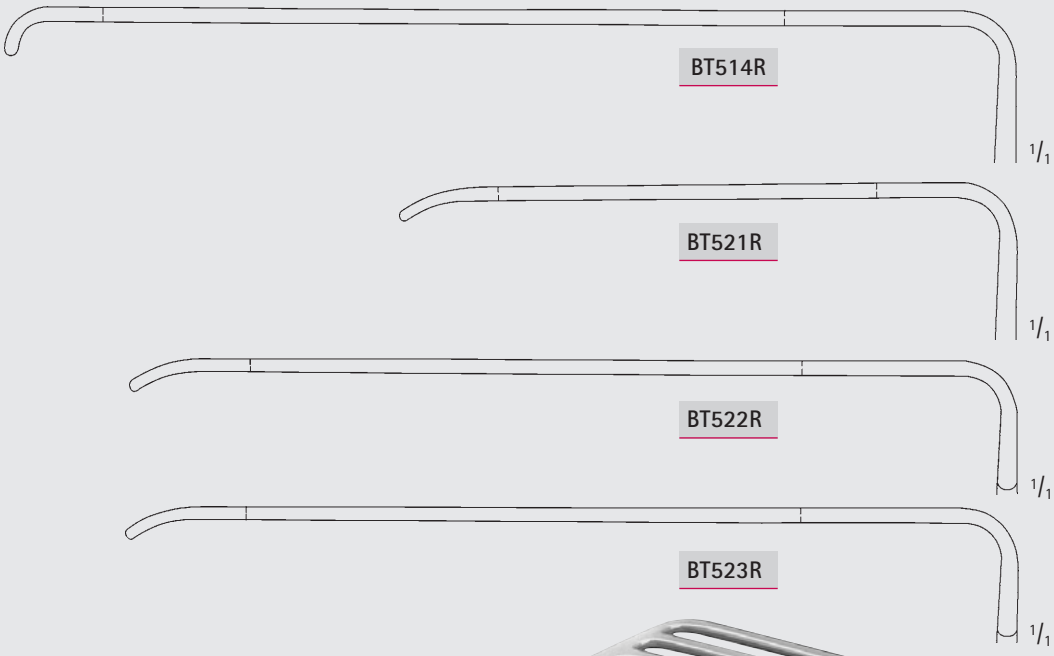
ALLISON
BT559R
255 mm, 10"



ALLISON
BT560R
320 mm, 12 3/4"



ALLISON
BT561R
300 mm, 12"





SAUERBRUCH

BT514R

260 mm, 10 1/4"



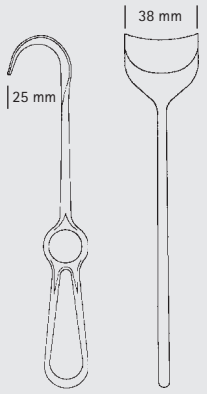
CORYLLOS

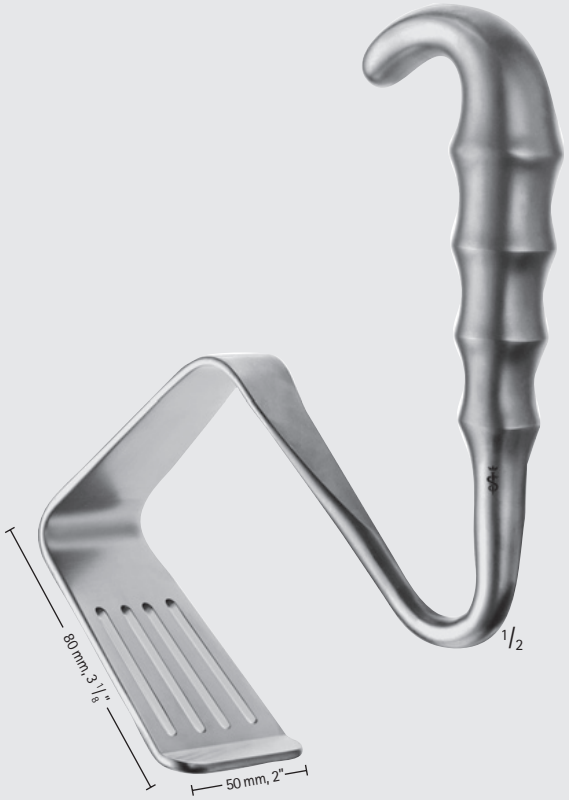
BT521R–BT523R

255 mm, 10"

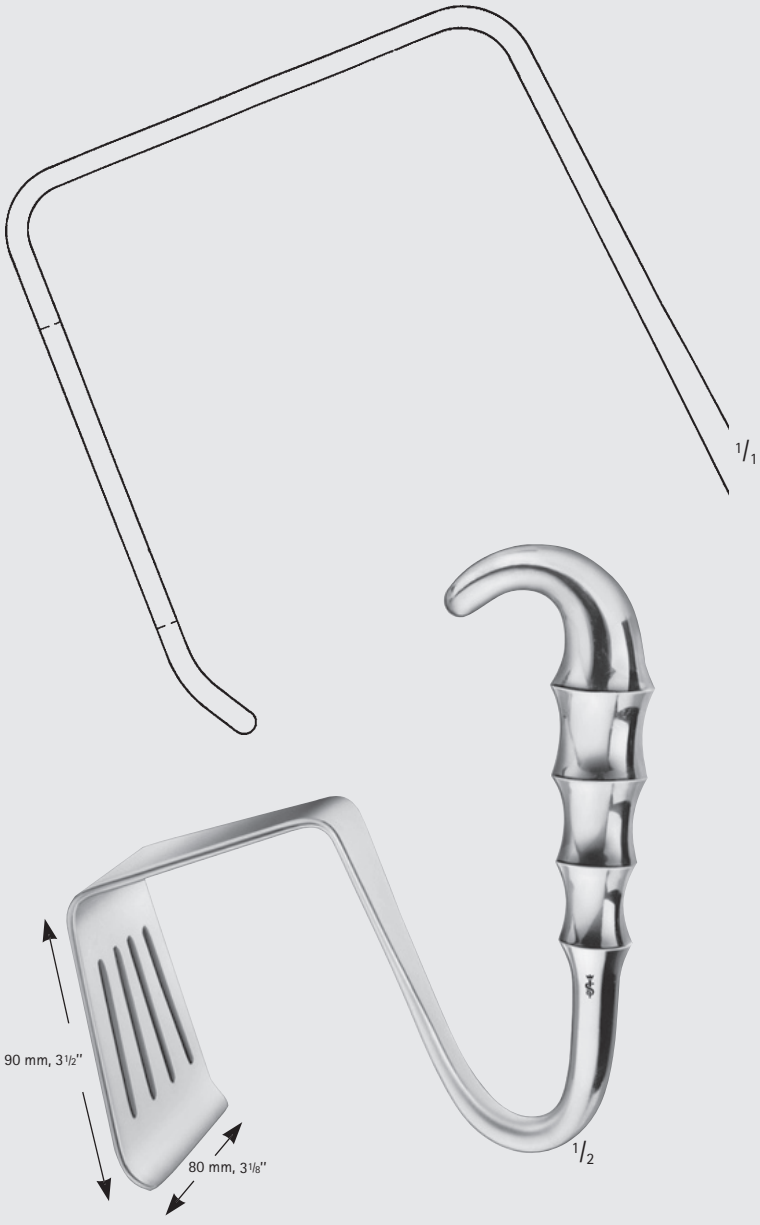
Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





DAVIDSON
MB758R
195 mm, 7 3/4"



DAVIDSON
BT531R
195 mm, 7 3/4"



ZENKER
BT594R
240 mm, 9 1/2"

ZENKER
BT595R
255 mm, 10"

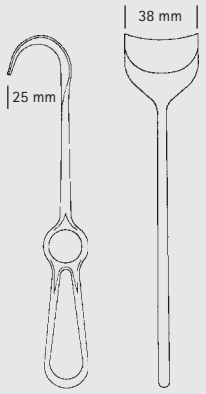
ZENKER
BT596R
270 mm, 10 3/4"

ZENKER
BT597R
290 mm, 11 1/2"

MILLIMETERS

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





MD076
10 mm
160 mm
6 1/4"

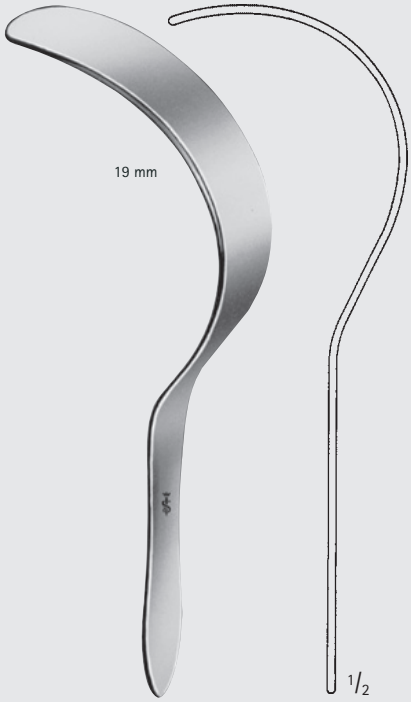
MD077
13 mm
180 mm
7"

HASSON

MD076-MD077

Set, consisting of:
2 retractors

Set, bestehend aus
2 Wundhaken



DEAVER

BT600R

Fig. 000

180 mm, 7"



DEAVER

BT601R

Fig. 00

215 mm, 8 1/2"



DEAVER

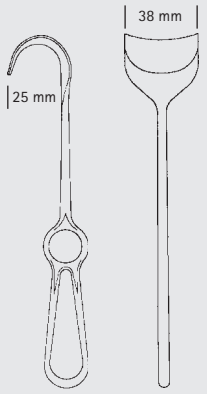
BT606R

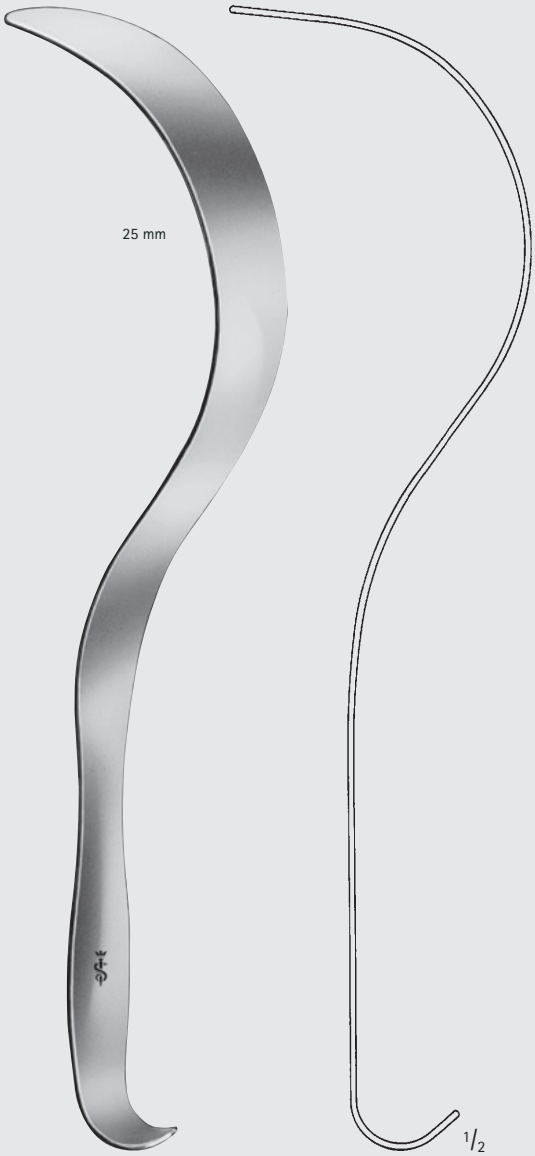
Fig. 0

235 mm, 9 1/4"

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





DEAVER

BT602R

Fig. 1

300 mm, 12"



DEAVER

BT603R

Fig. 2

315 mm, 12 1/2"

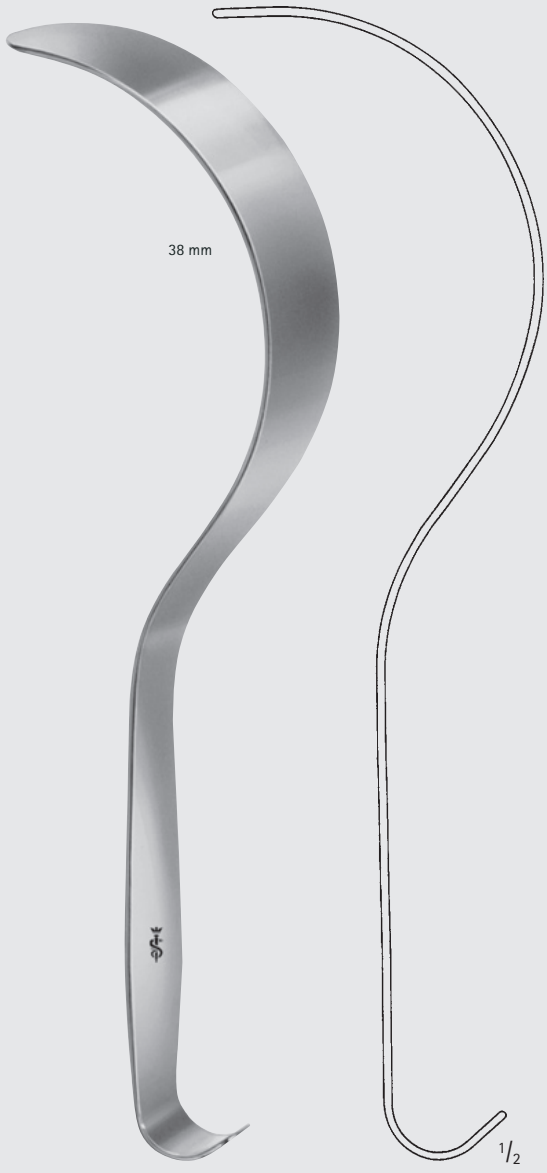


DEAVER

BT607R

Fig. 2 1/2

365 mm, 14 1/2"



DEAVER

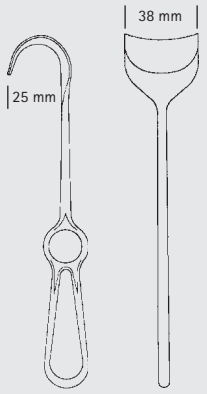
BT604R

Fig. 3

300 mm, 12"

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite

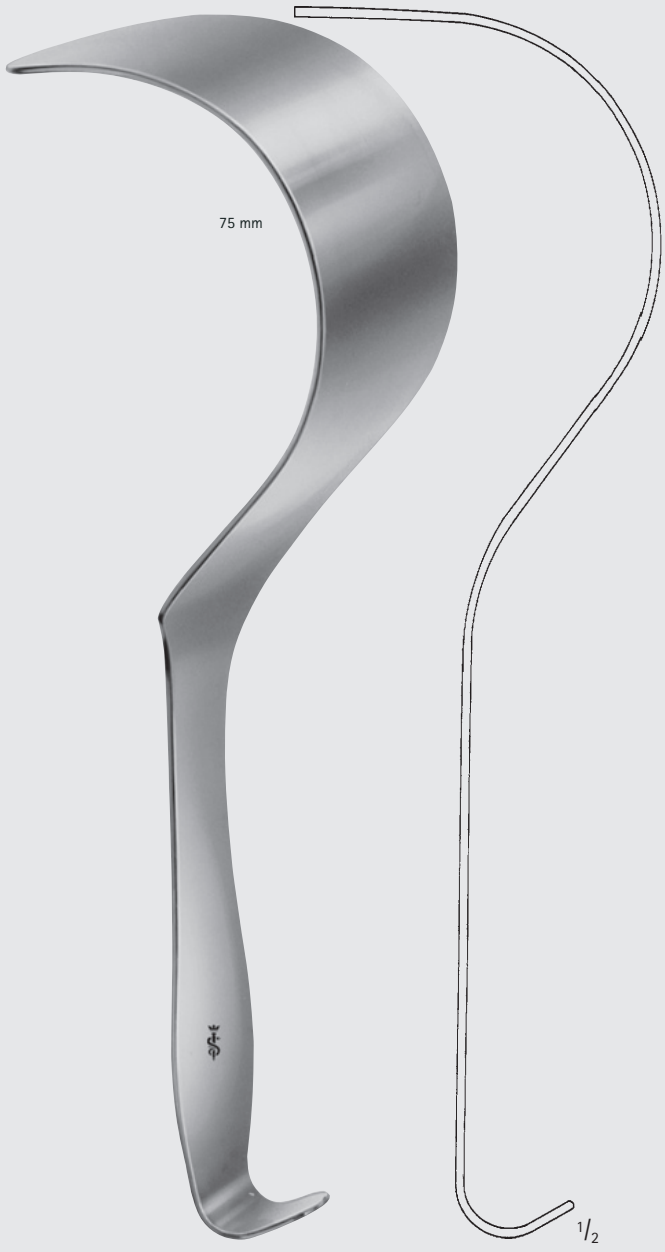




DEAVER

BT605R

Fig. 4
310 mm, 12 1/4"



DEAVER

BT608R

Fig. 5
320 mm, 12 3/4"



DEAVER

BT611R

Fig. 1

310 mm, 12 1/4"



DEAVER

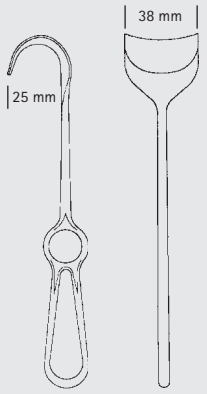
BT613R

Fig. 3

310 mm, 12 1/4"

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





DEAVER
BT614R
Fig. 4
305 mm, 12"



DEAVER
BT615R
Fig. 5
310 mm, 12 1/4"



LERICHE

BT730R

255 mm, 10"



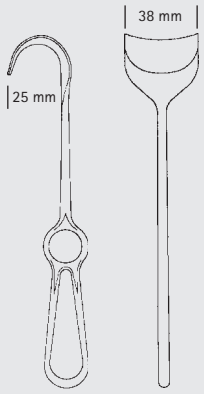
LERICHE

BT732R

275 mm, 10 3/4"

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





ROSS

MB047R-MB703R

Aortic hooks
Aortahaken
255 mm, 10"



MB047R
Fig. 1



MB048R
Fig. 2



MB700R
Fig. 3



MB701R
Fig. 4



MB702R
Fig. 5



MB703R
Fig. 6



BOROWSKI

FB971R–FB976R

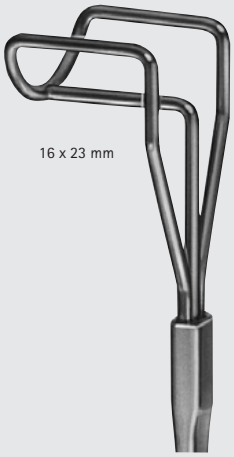
Shaft malleable

Schaft biegsam

270 mm, 10 3/4"



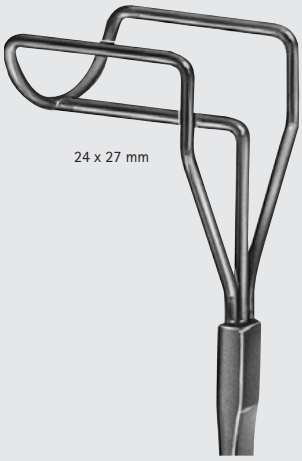
FB971R



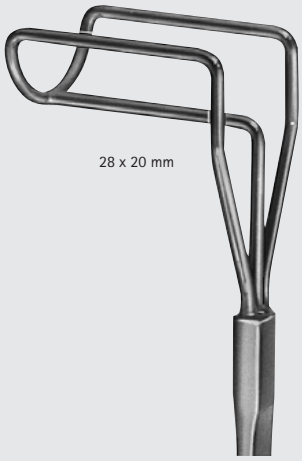
FB972R



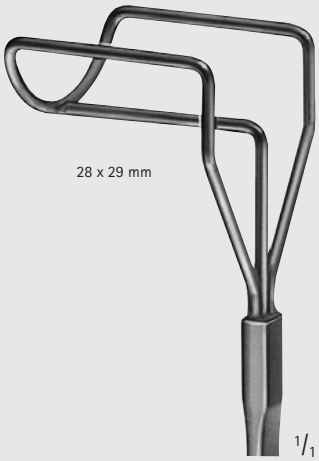
FB973R



FB974R



FB975R

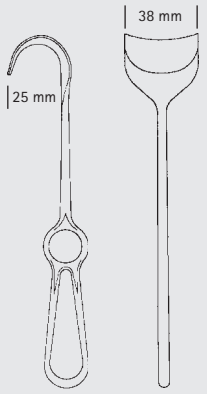


FB976R

Aorta, Valve and Atrium Retractors
Aorta-, Klappen- und Atriumhaken

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





$^{1}/_{2}$

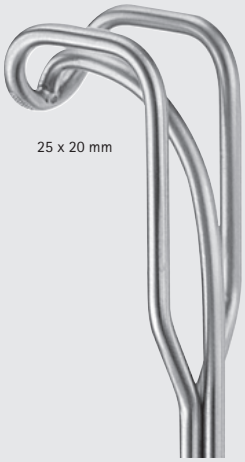
COOLEY

FB923R–FB927R

left

links

245 mm, 9 $^{3}/_{4}$"



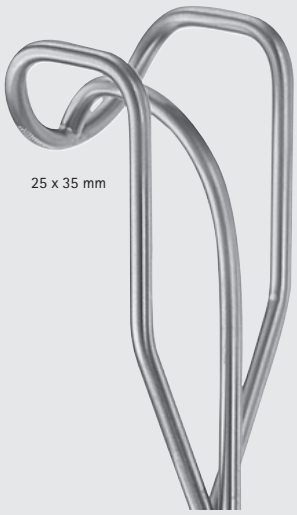
FB923R



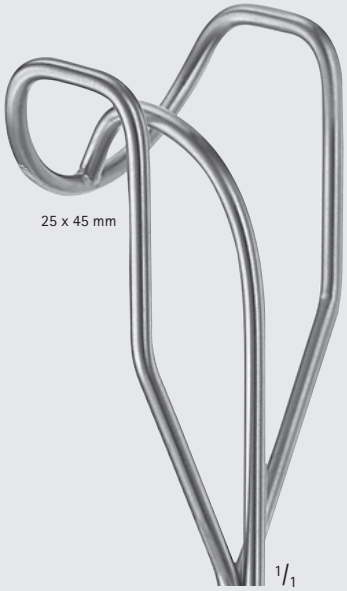
FB924R



FB925R

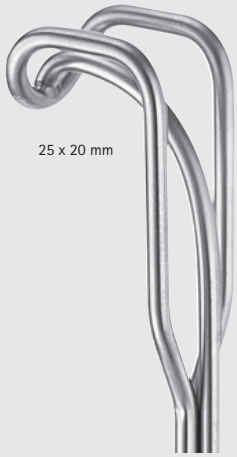


FB926R

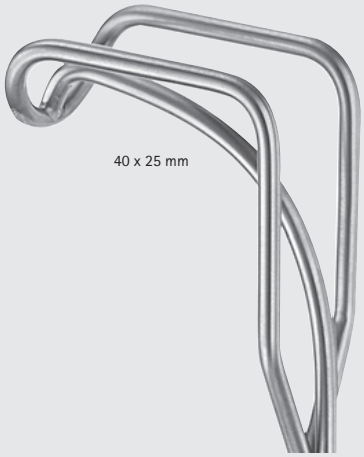


$^{1}/_{1}$

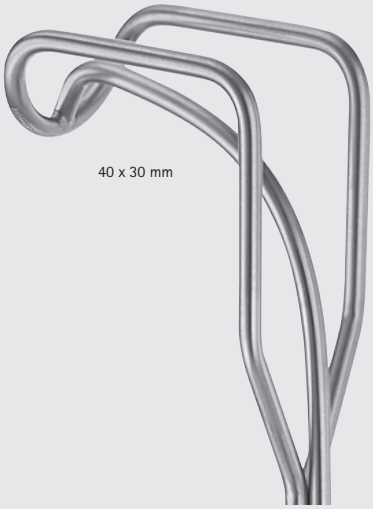
FB927R



FB963R



FB964R



FB965R



FB966R



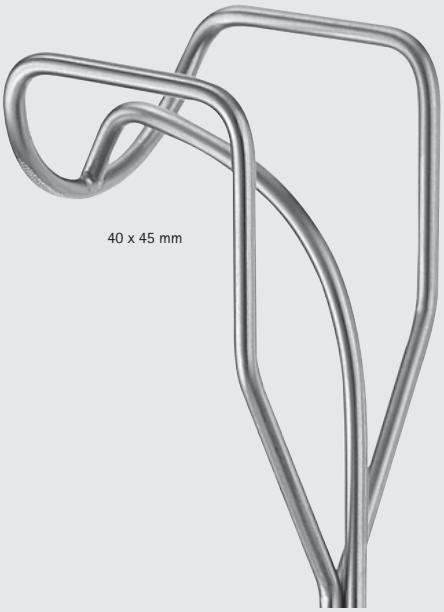
COOLEY

FB963R–FB968R

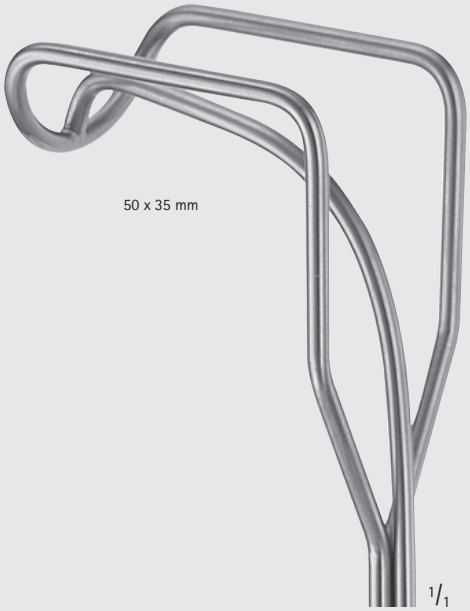
right

rechts

235 mm, 9 1/4"



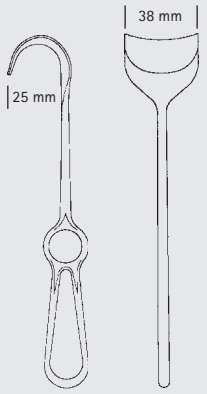
FB967R



FB968R

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





COOLEY
FB860R
right
rechts
270 mm, 10 3/4"



COOLEY
FB861R
right, slightly serrated
rechts, leicht gezahnt
270 mm, 10 3/4"



COOLEY
FB862R
left
links
280 mm, 11"

45 x 30 mm



1/2

COOLEY MODIF. STRUCK

FB865R

slightly serrated

leicht gezahnt

265 mm, 10 1/2"

45 x 35 mm



1/2

COOLEY MODIF. STRUCK

FB866R

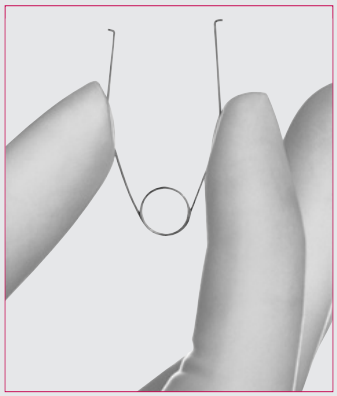
slightly serrated

leicht gezahnt

265 mm, 10 1/2"

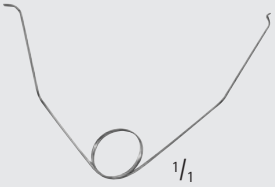
MILLIMETERS

Self-Retaining Retractors, Small
Wundspreizer, klein

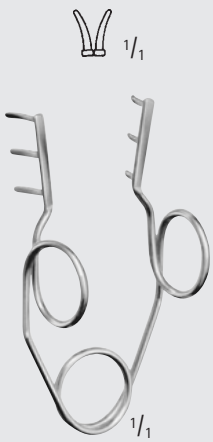


Extremely small coronary retractor
- No handle, therefore:
  - Occupies a minimal amount of space
  - No risk of suture getting cought
- Indications:
  - Coronary surgery in cases of minimized access
  - Standard coronary surgery

Extrem kleiner Fettspreizer
- Keine Griffe, dadurch:
  - Extrem geringer Platzbedarf
  - Kein Risiko des Verfangens von Nahtmaterial
- Indikationen:
  - Koronarchirurgie bei minimiertem Zugang
  - Standard Koronarchirurgie



BV009R
Coronary retractor
Koronar Fettspreizer



BV006R
45 mm, 1 3/4"



BV007R
55 mm, 2 1/8"

I.M.A. Epicardial retractors
for Coronary Artery Bypass Grafting

I.M.A. Epikard-Retraktor
für die Koronararterien-Bypass-Chirurgie

Mini



BV021R
25 mm, 1"

Small



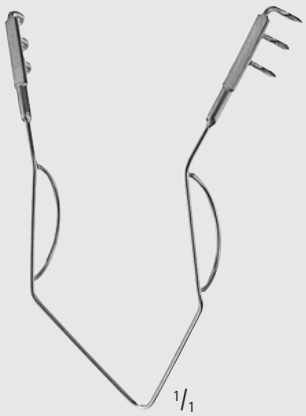
BV022R
32 mm, 1 1/4"

Medium



BV023R
40 mm, 1 1/2"

Large



BV024R
52 mm, 2"



PARSONNET

BV014R
sharp
scharf
50 mm, 2"







BV010R	BV011R
70 mm	100 mm
2 3/4"	4"

ALM

BV010R-BV011R



ALLPORT

BV028R

95 mm, 3 3/4"



JANSEN

BV030R

100 mm, 4"



JANSEN

BV032R

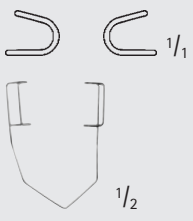
100 mm, 4"



JANSEN

BV033R

100 mm, 4"



BARRAQUER

OA200R

45 mm, 1 3/4"

- Retractor system for optimal approach to the arteria iliaca communis.
- The retractor blades are made out of titanium and therefore they are radiotransparent.
- The big medial retractor blade can be gradually adjusted during the operation.
- Because of the blades which are easy to exchange the retractor system can be used for the left and the right side.
- Sperrersystem zur idealen Darstellung der Arteria iliaca communis.
- Die Retraktorblätter sind aus Titan gefertigt und sind dadurch röntgentransparent.
- Das große mediale Retraktorblatt kann intraoperativ stufenweise verstellt werden.
- Das Sperrersystem kann aufgrund der einfachen Auswechselbarkeit der Valven links- sowie rechtsseitig eingesetzt werden.





BV712T
30 x 30 mm



BV713T
90 x 60 mm



1/3

BV709R
Forceps for changing the blades
Pinzette zum Valvenwechsel
130 mm, 5 1/8"

ALLENBERG

BV710R
Iliac retractor complete, consisting of:
BV711R Retractor only
BV712T Retractor blade lateral
BV713T Retractor blade medial

Iliaca-Sperrer komplett, bestehend aus:
BV711R Sperrer allein
BV712T Retraktorblatt lateral
BV713T Retraktorblatt medial



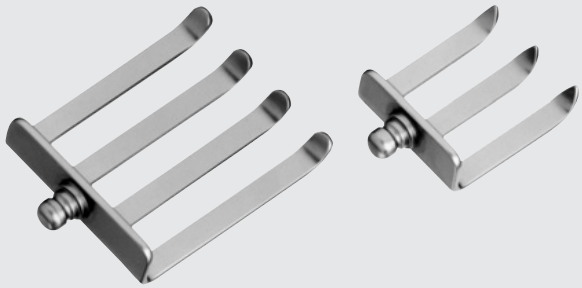
ALLENBERG

BV097R

Carotid retractor complete,
consisting of:
BV098R Retractor only, blunt, 170 mm, 6 3/4"
BV099R Center blade only, 120 mm, 4 3/4"

Carotis-Sperrer komplett,
bestehend aus:
BV098R Sperrer allein, stumpf, 170 mm, 6 3/4"
BV099R Mittelblatt allein, 120 mm, 4 3/4"





BV349R

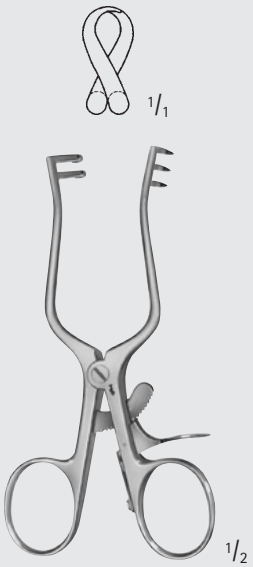
Poplitea retractor, complete
consisting of:
BV327R Retractor only
BV348R Blades (pair)

Poplitea-Sperrer, komplett
bestehend aus:
BV327R Sperrer allein
BV348R Blätter (Paar)

BV348R

Blades (pair), only
consisting of:
Blade, blunt, 60 x 50 mm
Blade, semi-sharp, 40 x 35 mm

Blätter (Paar), allein
bestehend aus:
Blatt, stumpf, 60 x 50 mm
Blatt, halbscharf, 40 x 35 mm



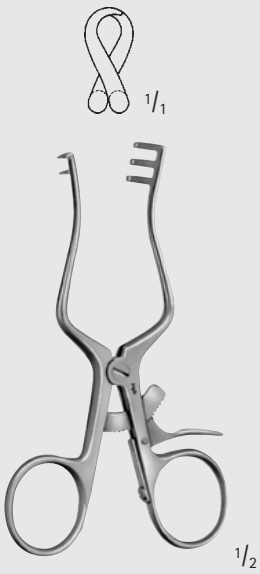
WEITLANER

BV070R

sharp

scharf

110 mm, 4 3/8"



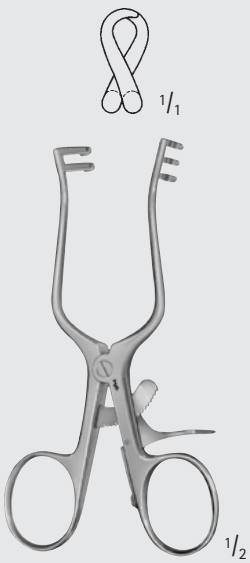
WEITLANER

BV066R

semi-sharp

halbscharf

110 mm, 4 3/8"



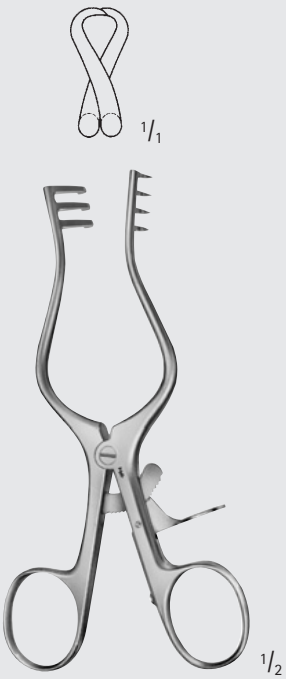
WEITLANER

BV073R

blunt

stumpf

110 mm, 4 3/8"



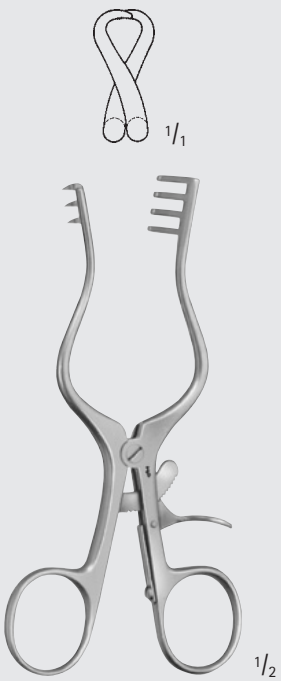
WEITLANER

BV071R

sharp

scharf

130 mm, 5 1/8"



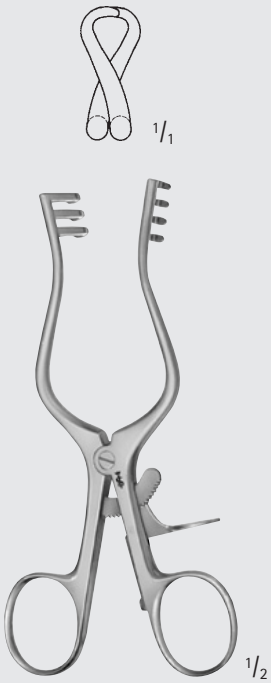
WEITLANER

BV067R

semi-sharp

halbscharf

130 mm, 5 1/8"



WEITLANER

BV074R

blunt

stumpf

130 mm, 5 1/8"



WEITLANER

BV101R

sharp

scharf

130 mm, 5 1/8"



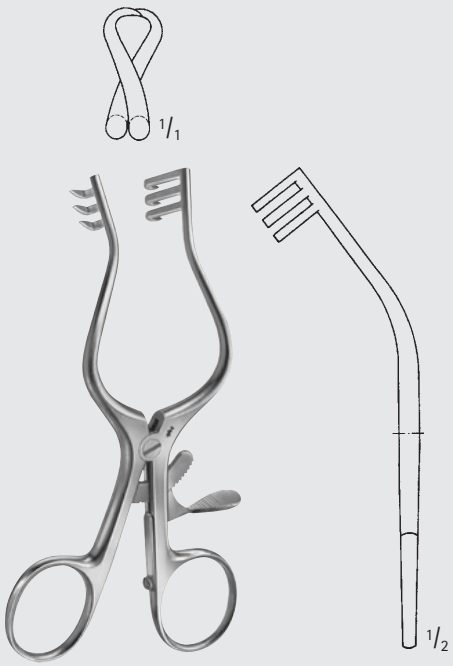
WEITLANER

BV104R

blunt

stumpf

130 mm, 5 1/8"



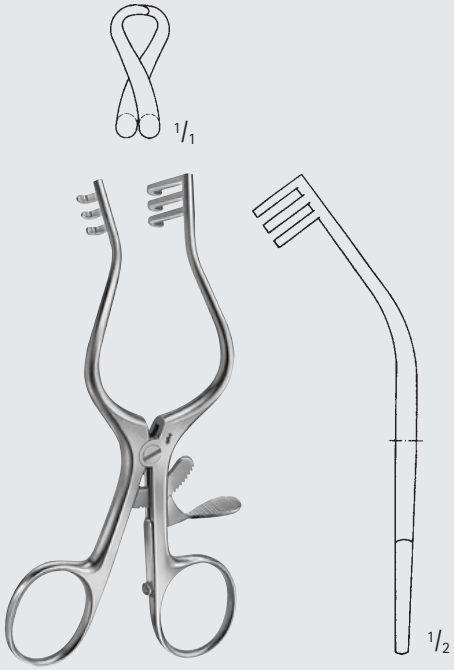
WULLSTEIN

BV076R

sharp

scharf

130 mm, 5 1/8"



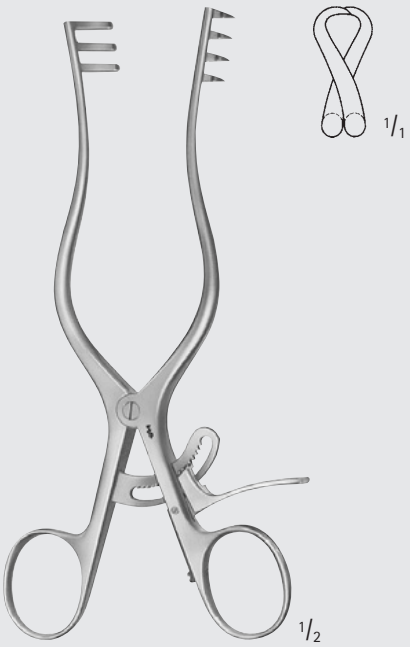
WULLSTEIN

BV077R

blunt

stumpf

130 mm, 5 1/8"



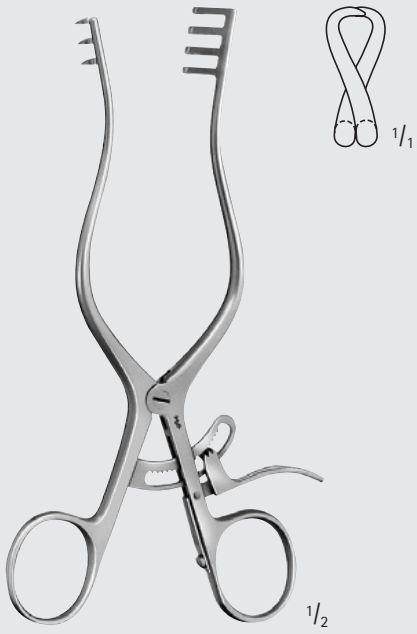
WEITLANER

BV072R

sharp

scharf

165 mm, 6 1/2"



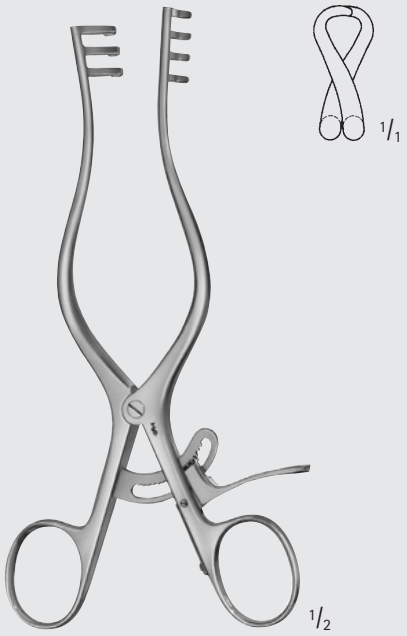
WEITLANER

BV068R

semi-sharp

halbscharf

165 mm, 6 1/2"



WEITLANER

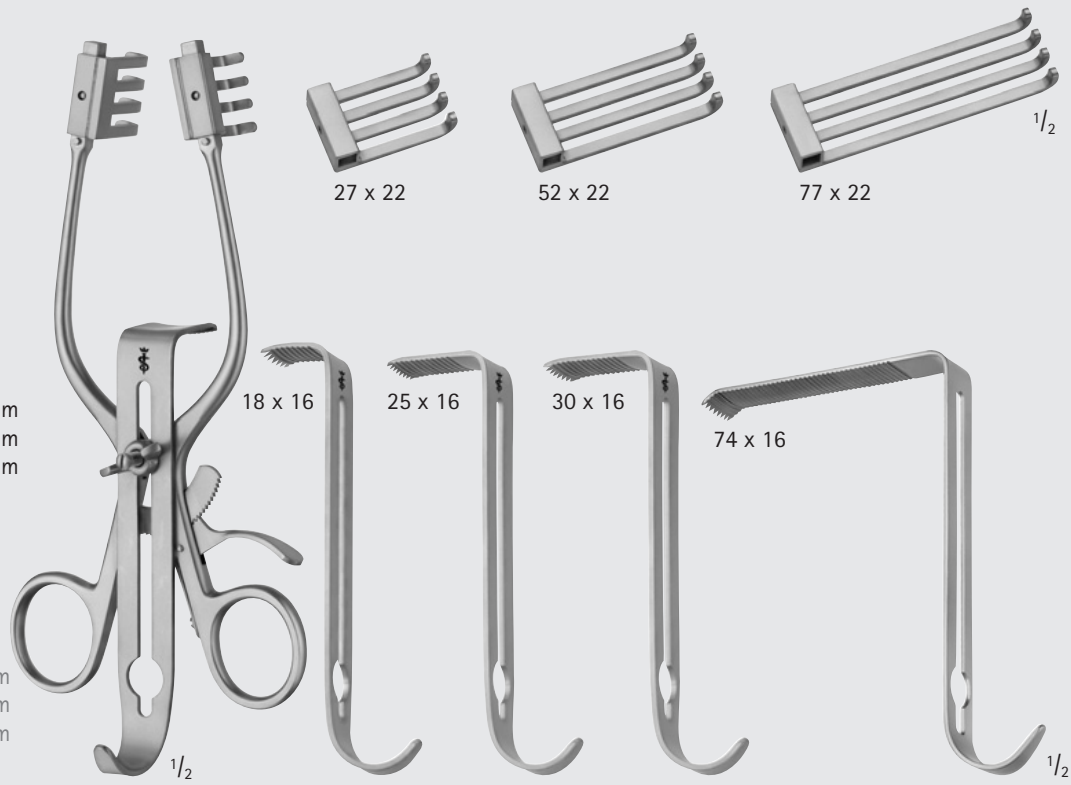
BV075R

blunt

stumpf

165 mm, 6 1/2"

Self-Retaining Retractors, Large
Wundspreizer, groß



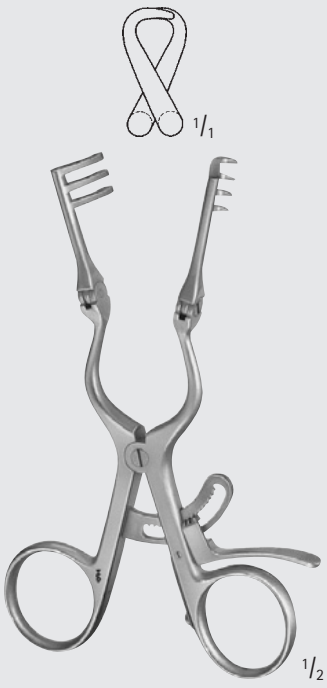
HENLY

BV120R

Retractor set complete,
consisting of:
Center blade 18 x 16 mm
Center blade 25 x 16 mm
Center blade 30 x 16 mm
Center blade 74 x 16 mm
Lateral blades (pair) 27 x 22 mm
Lateral blades (pair) 52 x 22 mm
Lateral blades (pair) 77 x 22 mm

Wundspreizer-Set komplett,
bestehend aus:
Mittelblatt 18 x 16 mm
Mittelblatt 25 x 16 mm
Mittelblatt 30 x 16 mm
Mittelblatt 74 x 16 mm
Seitl. Blätter (Paar) 27 x 22 mm
Seitl. Blätter (Paar) 52 x 22 mm
Seitl. Blätter (Paar) 77 x 22 mm

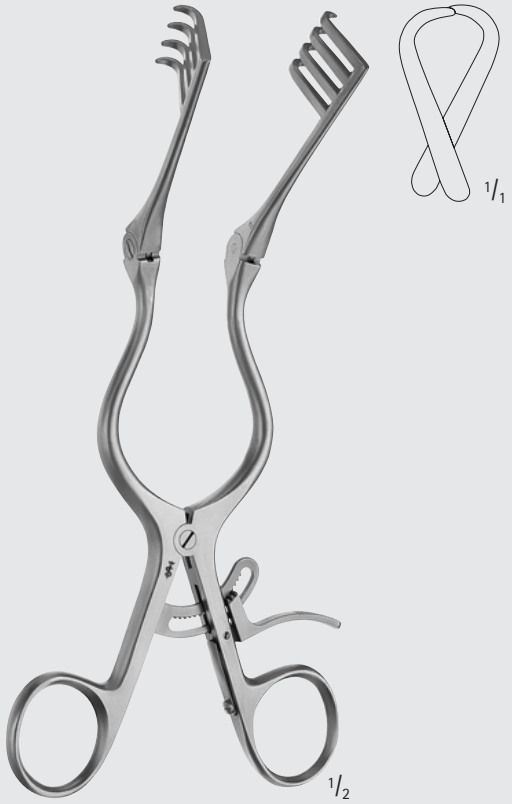
180 mm, 7"



ADSON-BABY

BV085R 140 mm, 5 1/2"
BV094R 165 mm, 6 1/2"

semi-sharp
halbscharf

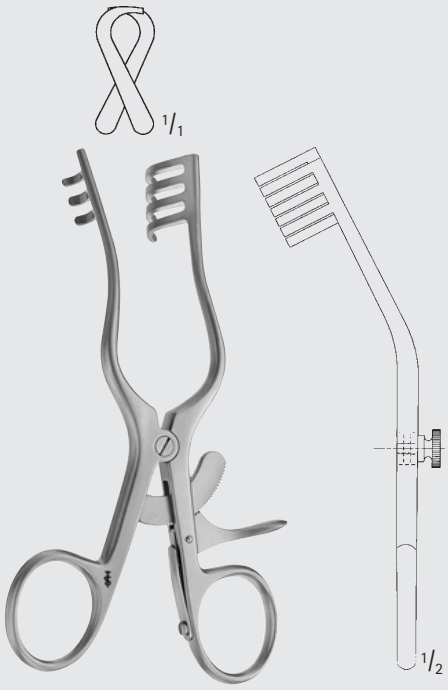


ADSON

BV251R

semi-sharp
halbscharf

215 mm, 8 1/2"



JEFFERSON

BV092R

curved, blunt

gebogen, stumpf

140 mm, 5 1/2"



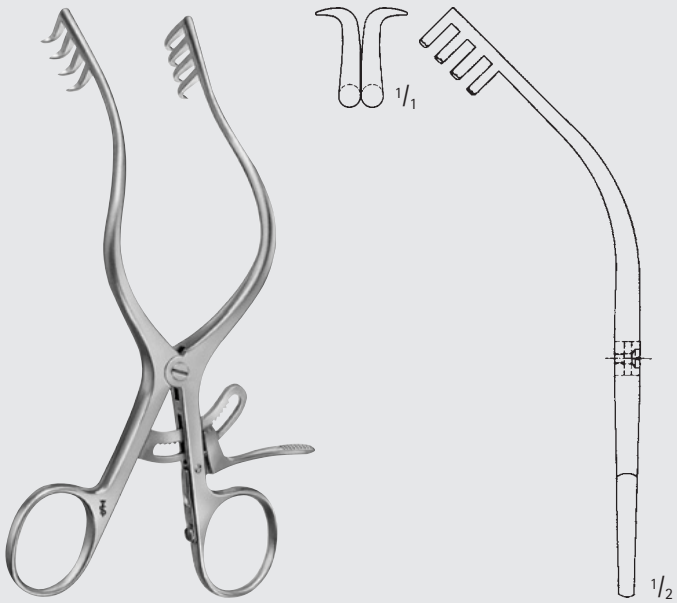
MOLLISON

BV093R

sharp

scharf

140 mm, 5 1/2"



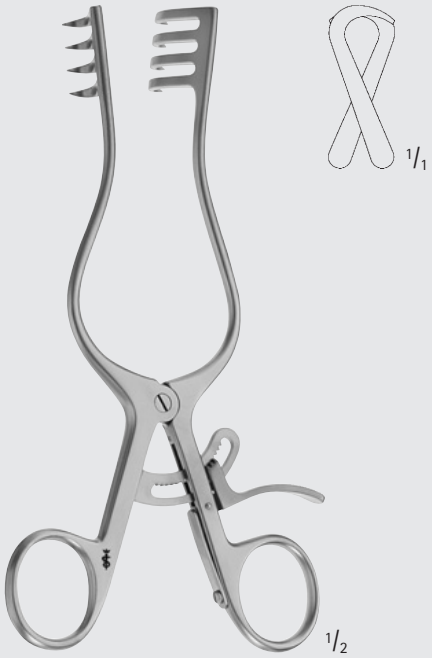
MOLLISON

BV088R

sharp

scharf

155 mm, 6"



HENDERSON

BV113R

sharp

scharf

180 mm, 7"

Retraction Systems, Retractors, Hooks – Sperrersysteme, Spreizer und Wundhaken

Self-Retaining Retractors, Large

Wundspreizer, groß

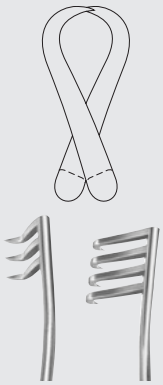


WEITLANER

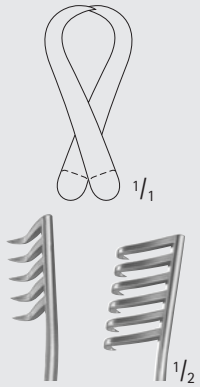
BV199R–BV209R



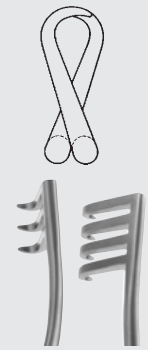
BV200R
sharp
scharf
195 mm
7 3/4"



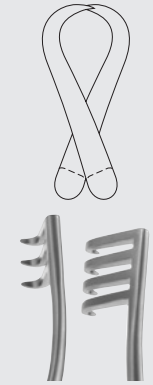
BV206R
sharp
scharf
240 mm
9 1/2"



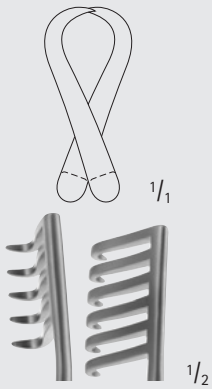
BV208R
sharp
scharf
255 mm
10"



BV199R
semi-sharp
halbscharf
195 mm
7 3/4"



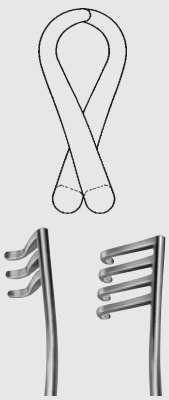
BV203R
semi-sharp
halbscharf
240 mm
9 1/2"



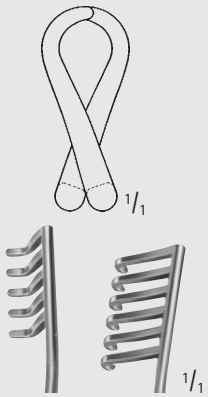
BV205R
semi-sharp
halbscharf
255 mm
10"



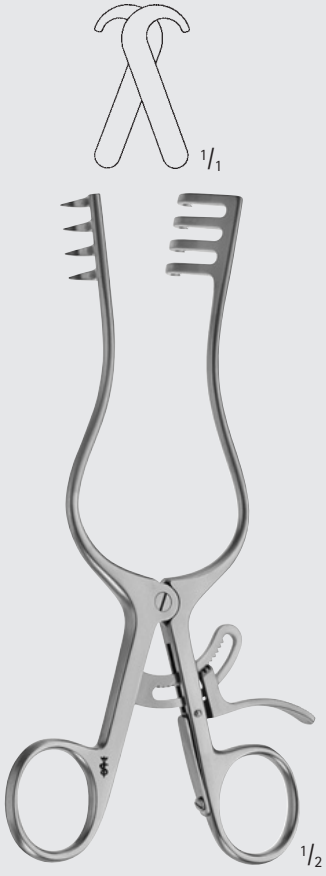
BV201R
blunt
stumpf
195 mm
7 3/4"



BV207R
blunt
stumpf
240 mm
9 1/2"



BV209R
blunt
stumpf
255 mm
10"



IRWIN

BV247R

sharp

scharf

175 mm, 7"



TRAVERS

BV249R

blunt

stumpf

215 mm, 8 1/2"

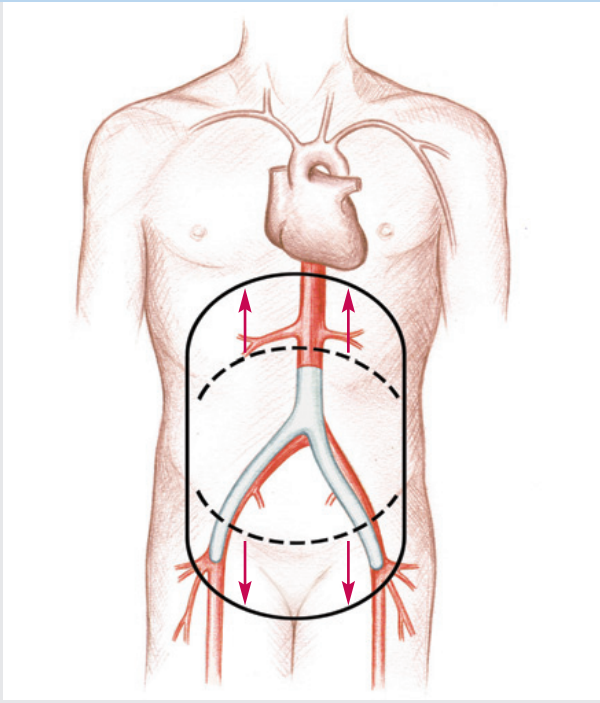
Abdominal aortic aneurysm
Abdominales Aortenaneurysma

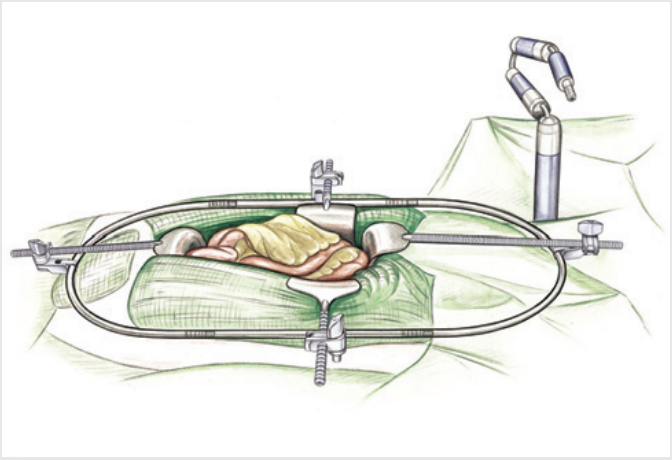
In the case of abdominal aortic aneurysm, the Aesculap Retraction System offers optimum visibility to the operating field.

Thanks to its modular design, the Aesculap Ring System can be individually adapted to the anatomical situation of the patient. The frames and retractors can be adjusted to the required dimensions with extensions of different lengths. For example, the abdominal ring of the system can be extended by means of ring extensions, which allows the creation of additional space in the cranial and caudal direction, e. g. in case of implantation of a Y-prosthesis for the treatment of an aneurysm. The system provides enough space for the aneurysm treatment as well as for the distal anastomosis.

Beim abdominalen Aortenaneurysma ermöglichen die Aesculap Retraktionssysteme eine optimierte Darstellung des Operationsfeldes.

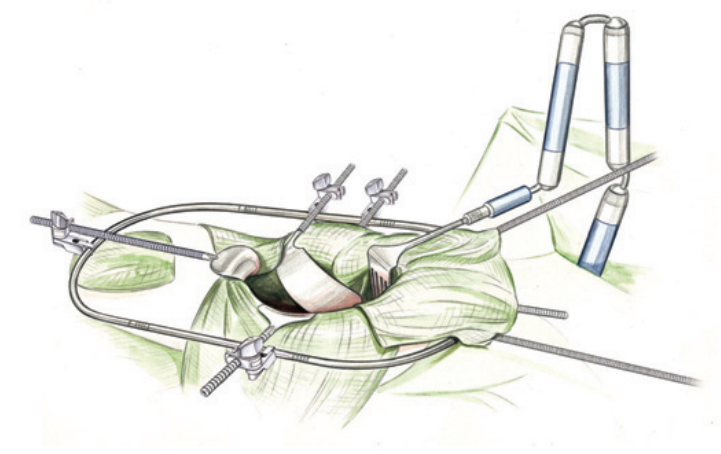
Das Aesculap Ring System kann aufgrund seiner modularen Konzeption individuell an die anatomische Situation des Patienten angepasst werden. Die Rahmen und Wundhaken lassen sich mit Verlängerungen in unterschiedlichen Längen auf das gewünschte Maß einstellen. So kann beispielsweise der Abdominalring des Systems durch entsprechende Ringverlängerungen verlängert werden, dass kranial und kaudal z.B. beim Einsatz einer Y-Prothese ausreichend Raum für die Behandlung des Aneurysmas sowie Zugang bei den distalen Anastomosen geschaffen wird.





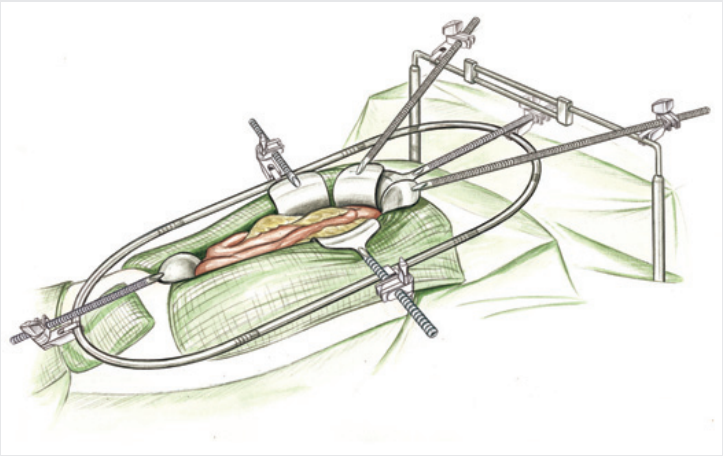
The Unitrac® Arm serves as an "additional surgeon's arm" for the retraction of organs and soft tissue (intestine, stomach, etc.). With just one button to press for adjustment, the site can be optimally exposed by using the Unitrac® arm.

Der Unitrac® Arm wird als „zusätzlicher Arm des Chirurgen" zur Retraktion von Organen und Weichgewebe (Darm, Magen, etc.) eingesetzt. Dank der einfachen Verstellbarkeit per Knopfdruck und der stabilen Retraktion kann der Situs mit dem Unitrac® optimal dargestellt werden.



Moreover, improved visibility of the site can also be achieved during interventions to the suprarenal aorta using the GNAUERT upper abdominal frame.

Zusätzlich kann mit dem Oberbauchrahmen nach GNAUERT, bei Eingriffen an der Aorta Suprarenalis eine verbesserte Darstellung des Situs erfolgen.

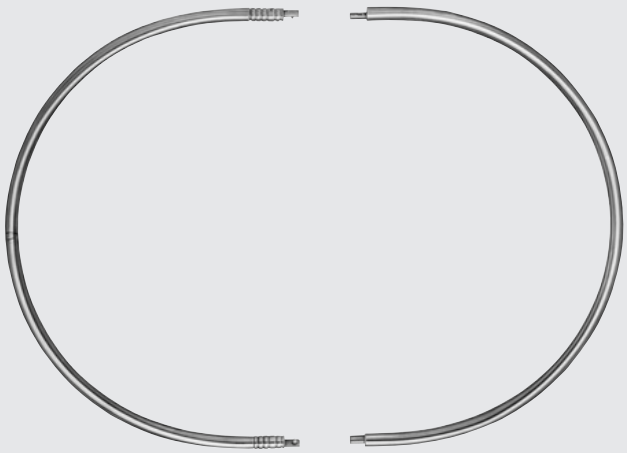


Recommended set

	Cat. No.	Quantity	Description
1	BV815R	1	Abdominal frame II 328 x 270 mm
2	BV817R	1	Abdominal frame III 408 x 350 mm
3	BV819R	1	Frame extension rod 100 mm
4	BV821R	1	Frame extension rod 250 mm
5	BV825R	8	Round notch rod 150 mm
6	BV849R	8	Connecting clamp
7	BV839R	2	Octagonal. notch rod 120 mm
8	FG290R	1	Wrench 10 AF, angled
9	BV961R	4	Abdominal retractor blade, size I 62 x 76 mm
10	BV962R	4	Abdominal retractor blade, size II 80 x 80 mm
11	BV972R	2	Abdominal retractor blade 100 x 100 mm
12	BV973R	2	Abdominal retractor blade 100 x 120 mm
13	BV945R	4	Abdominal retractor blade 50 x 90 mm
14	BV946R	2	Abdominal retractor blade 50 x 105 mm
15	BV952R	3	Liver retractor 140 x 85 mm
16	BT625R	1	Liver retractor 125 x 140 mm
17	BV949R	1	Kelly retractor blade 150 x 39 mm
18	BV848R	1	GNAUERT frame for upper abdomen
19	BV826R	4	Extension notch rod 100 mm
20	BV835R	2	Adapter for KSV ball snap closure blades
21	BV555R	1	Retractor blades, pair 48 x 59 mm KSV
22	BV556R	1	Retractor blades, pair 58 x 80 mm KSV
23	RT040R	1	Unitrac® holding arm
24	RT090R	3	Fixation clamp for OR table rail
25	GA466	1	Compressed air hose Aesculap Dräger, 5 m
26	RT153R	1	Unitrac® Coryllos retractor blade 115 x 65 mm

Setempfehlung

	Art. Nr.	Menge	Beschreibung
1	BV815R	1	Abdominal Ring II 328 x 270 mm
2	BV817R	1	Abdominal Ring III 408 x 350 mm
3	BV819R	1	Ring-Verlängerungsstab 100 mm
4	BV821R	1	Ring-Verlängerungsstab 250 mm, gerade
5	BV825R	8	Runde Raststange 150 mm
6	BV849R	8	Befestigungsklemme
7	BV839R	2	Achtkantraststange, 120 mm, mit Kontermutter
8	FG290R	1	Spannschlüssel SW 10
9	BV961R	4	Bauchdeckenhaken Gr. I 62 x 76 mm
10	BV962R	4	Bauchdeckenhaken Gr. II 80 x 80 mm
11	BV972R	2	Bauchdeckenhaken 100 x 100 mm
12	BV973R	2	Bauchdeckenhaken 100 x 120 mm
13	BV945R	4	Bauchdeckenhaken 50 x 90 mm
14	BV946R	2	Bauchdeckenhaken 50 x 105 mm
15	BV952R	3	Leberhaken 140 x 85 mm
16	BT625R	1	Leberhaken 125 x 140 mm
17	BV949R	1	Wundhaken nach Kelly 150 x 39 mm
18	BV848R	1	GNAUERT Oberbauchrahmen
19	BV826R	4	Verlängerungsstück für Raststange 100 mm
20	BV835R	2	Kupplungsstück mit KSV Ansatz
21	BV555R	1	Blätter Paar 48 x 59 mm KSV
22	BV556R	1	Blätter Paar 58 x 80 mm KSV
23	RT040R	1	Unitrac® Haltearm
24	RT090R	3	Haltekolben zur Befestigung an der OP Tisch Schiene
25	GA466	1	Druckluftschlauch Aesculap Dräger, 5 m
26	RT153R	1	Unitrac® Wundhaken Coryllos 115 x 65 mm



BV814R 238 x 180 mm
Abdominal frame I, detachable
Abdominalring I, teilbar

1 **BV815R** 328 x 270 mm
Abdominal frame II, detachable
Abdominalring II, teilbar

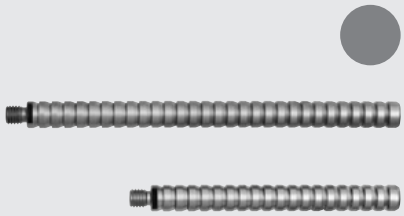
2 **BV817R** 408 x 350 mm
Abdominal frame III, detachable
Abdominalring III, teilbar



3 **BV819R** 100 mm
Frame extension rod, (1 Pair)
Ring-Verlängerungsstange, (1 Paar)



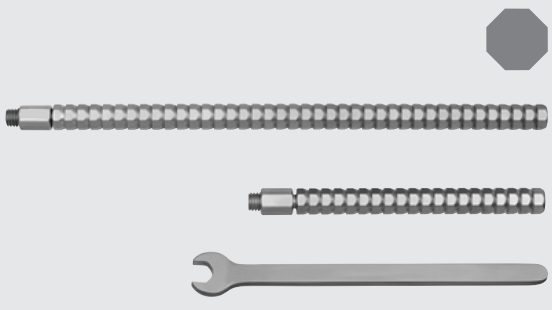
4 **BV821R** 250 mm
Frame extension rod, (1 Pair)
Ring-Verlängerungsstange, (1 Paar)



Round notch rods
Runde Raststangen

5 **BV825R** 150 mm

19 **BV826R** 100 mm
Extension notch rod
Verlängerungsstück



Octangular notch rods
Achtkant-Raststangen

BV840R 220 mm

7 **BV839R** 120 mm

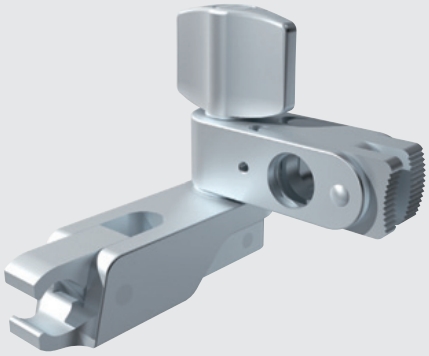
8 **FG290R** Wrench for locking retractor blades on BV839R and BV840R
Schlüssel zum Sichern von Wundhaken auf BV839R und BV840R

MILLIMETERS



20 **BV835R**

Adapter for retractor blades with ball snap closure (KSV)
Kupplungsstück für KSV-Wundhaken

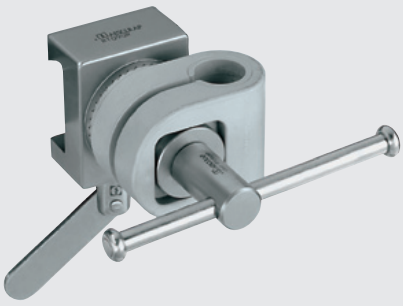


6 **BV849R**

Connecting clamp, with latching mechanism for octangular notch rods.
Suitable for round and octangulat notch rods
Befestigungsklemme, mit Arretierungsfunktion für Achtkant-Raststangen.
Geeignet für runde und Achtkantraststangen



One-hand-use
Einhandbedienung





23 **RT040R**

Unitrac®-Arm, 74 cm long, 4 kg holding force
Unitrac®-Arm, 74 cm Länge, 4 kg Haltekraft

24 **RT090R**

Connection to the OR table rail, 9-10 cm width, 25-35 cm length
Adapter für OP-Schiene, 9-10 cm Breite, 25-35 cm Länge

25 **GA466**

Compressed air hose Aesculap Dräger, 5 m
Druckluftschlauch Aesculap Dräger, 5 m

GNAUERT Frame for upper abdomen
GNAUERT Oberbauchrahmen

18 **BV848R** GNAUERT Frame for upper abdomen,
consisting of: 1 Frame (horizontal)
2 Vertical rods

Additionally required (please order separately):
2 RT090R
Connecting clamps

GNAUERT Oberbauchrahmen,
bestehend aus: 1 Rahmen (horizontal)
2 senkrechte Stangen

Zusätzlich werden 2 RT090R Adapter benötigt
(nicht in BV848R enthalten, bitte zusätzlich bestellen)



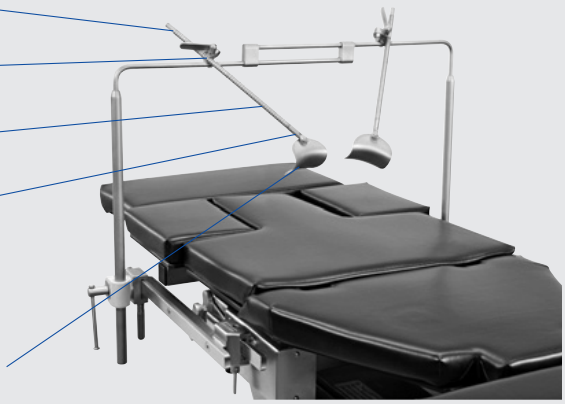
BV827R Notch rod end part
Raststangenendstück

6 **BV849R** 2 Clamps
2 Klemmen

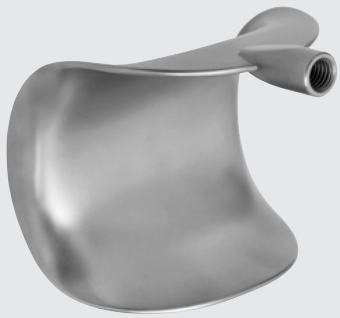
Round notch rods (BV825R)
Runde Raststangen (BV825R)

20 **BV835R** Adapter piece
Kupplungsstück

Retractor blades
(recommended) 21 **BV555R** 22 **BV556R**
Wundhaken
(Empfehlung:) 21 **BV555R** 22 **BV556R**



Set up example
Montagebeispiel

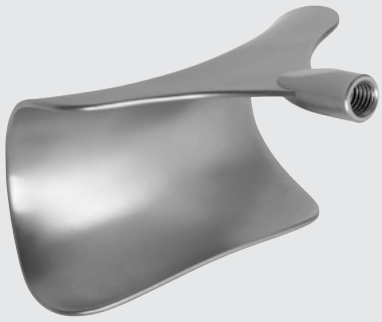


9 **BV961R** 62 x 76 mm
Abdominal retractor blade, size I
Bauchdeckenhaken, Größe I

10 **BV962R** 80 x 80 mm
Abdominal retractor blade, size II
Bauchdeckenhaken, Größe II

11 **BV972R** 100 x 100 mm
Abdominal retractor blade,
Bauchdeckenhaken

12 **BV973R** 100 x 120 mm
Abdominal retractor blade
Bauchdeckenhaken



13 **BV945R** 50 x 90 mm
Abdominal retractor blade
Bauchdeckenhaken

14 **BV946R** 50 x 105 mm
Abdominal retractor blade
Bauchdeckenhaken



21 **BV555R** 48 x 59 mm
Retractor blades (Pair), KSV
Blätter (Paar), KSV

22 **BV556R** 58 x 80 mm
Retractor blades (Pair), KSV
Blätter (Paar), KSV

BV557R 72 x 84 mm
Retractor blades (Pair), KSV
Blätter (Paar), KSV



15 **BV952R** 140 x 85 mm
Liver retractor
Leberhaken



16 **BT625R** 125 x 140 mm
Liver retractor
Leberhaken



17 **BV949R** 150 x 39 mm
Retractor blade KELLY
Wundhaken KELLY



26 **RT153R** 115 x 65 mm
Coryllos Retractor
Coryllos Retraktor

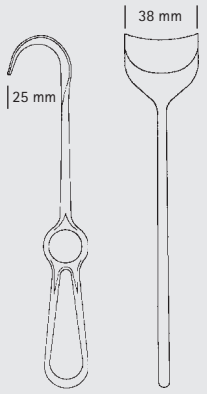
Retraction Systems, Retractors, Hooks – Sperrersysteme, Spreizer und Wundhaken

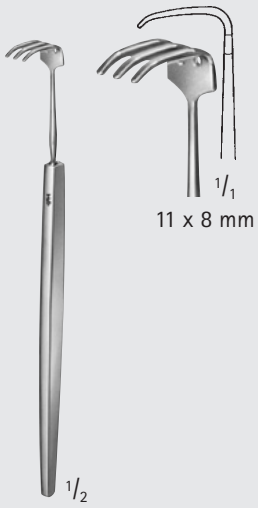
Wound and Vein Retractors

Wund- und Venenhaken

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





PAUL

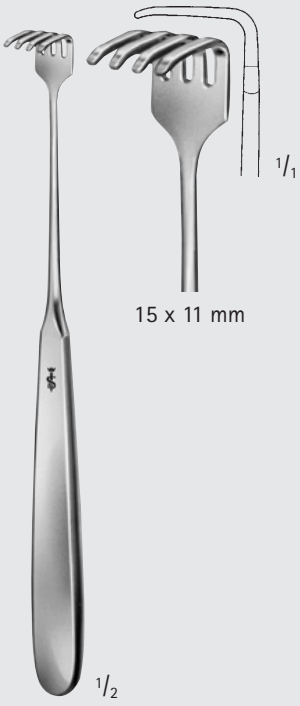
OA340R

120 mm, 4 3/4"



BT170R–BT171R

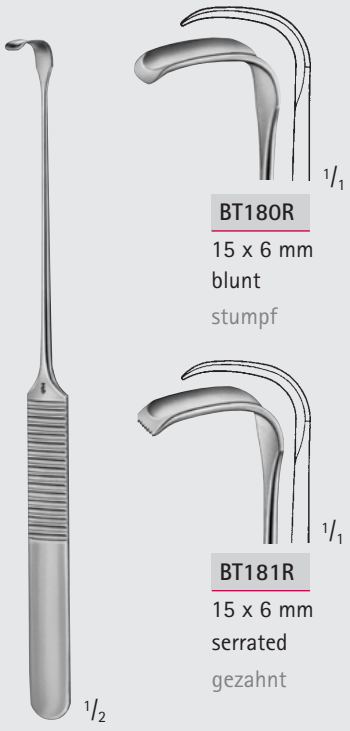
175 mm, 7"



KLAPP

BT172R

175 mm, 7"



STRANDELL-STILLE

BT180R–BT181R

180 mm, 7"



6 x 12 mm

MASING

OL211R

140 mm, 5 1/2"



10 x 12 mm

COTTLE

OL212R

140 mm, 5 1/2"



OA310R
9 x 9 mm

OA311R
9 x 12 mm

OA312R
11 x 14 mm

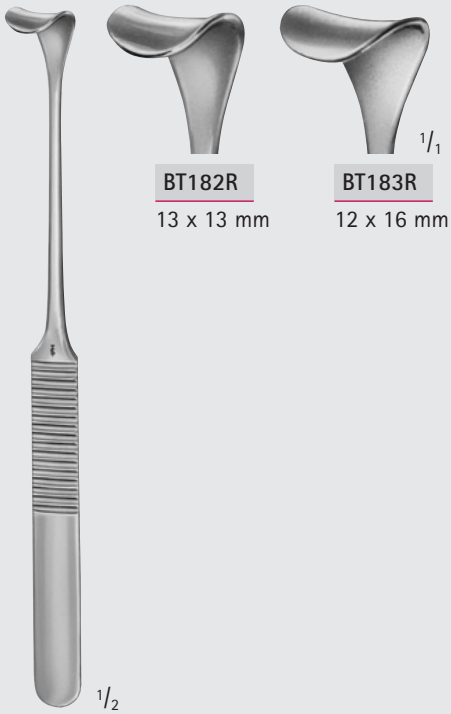
OA313R
12 x 16 mm

OA314R
13 x 18 mm

DESMARRES

OA310R–OA314R

140 mm, 5 1/2"



BT182R
13 x 13 mm

BT183R
12 x 16 mm

KÖNIG

BT182R–BT183R

180 mm, 7"

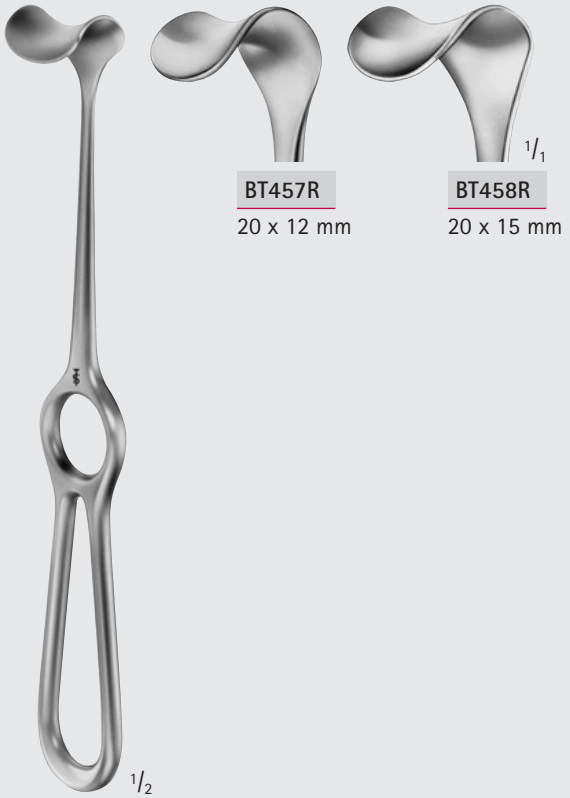


10 x 10 mm

CUSHING-KOCHER

BT190R

175 mm, 7"



BT457R
20 x 12 mm

BT458R
20 x 15 mm

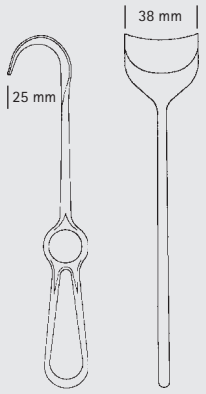
KOCHER

BT457R–BT458R

205 mm, 8"

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





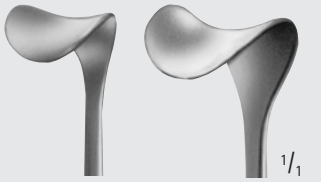
13 x 6 mm

SCHOENBORN

BT192R

200 mm, 8"





BT184R
10 x 13 mm

BT185R
14 x 18 mm

CUSHING

BT184R-BT185R

205 mm, 8"



1/2

GIL VERNET

BT210R–BT217R

240 mm, 9 1/2"



BT210R

10 x 4 mm



BT211R

10 x 6 mm



BT212R

10 x 8 mm



BT213R

10 x 11 mm



BT214R

13 x 15 mm



BT215R

13 x 17 mm



BT216R

14 x 20 mm



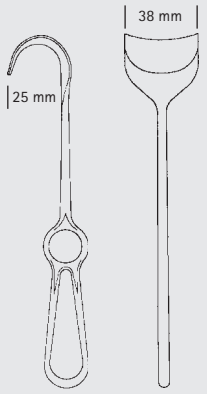
1/1

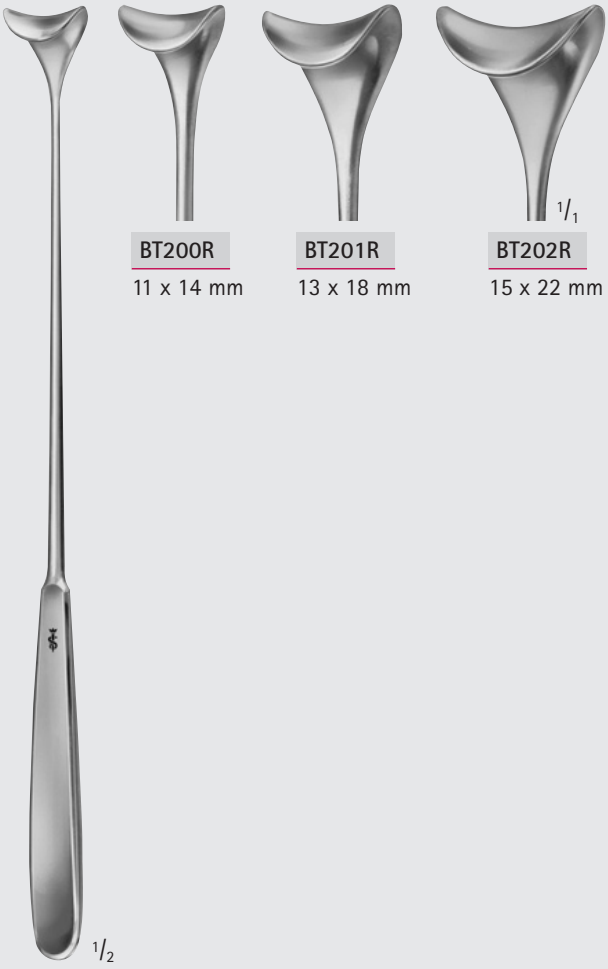
BT217R

16 x 23 mm

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite





BT200R
11 x 14 mm

BT201R
13 x 18 mm

BT202R
15 x 22 mm

CUSHING

BT200R–BT202R
250 mm, 10"



for longitudinal dissection of vessels
zur Längspräparation von Gefäßen

BT206R
Small dissecting hook
Präparationshäkchen
235 mm, 9 1/4"



KOCHER
BT234R
sharp
scharf
205 mm, 8"



KOCHER
BT238R
sharp
scharf
220 mm, 8 3/4"



KOCHER
BT239R
blunt
stumpf
220 mm, 8 3/4"



VOLKMANN
BT240R
sharp
scharf
220 mm, 8 3/4"



VOLKMANN
BT241R
blunt
stumpf
220 mm, 8 3/4"

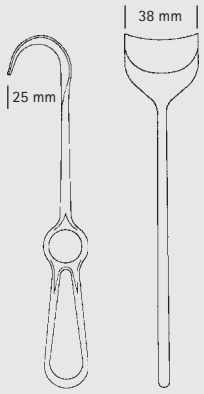


BT232R
sharp
scharf
245 mm, 9 3/4"

Retractors with Teeth
Wundhaken mit Zähnen

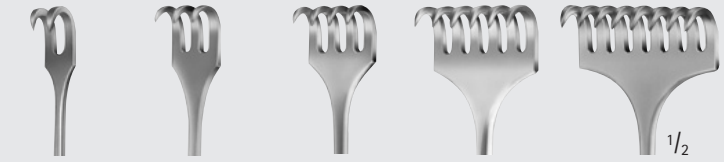
Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite



sharp
scharf





BT242R	BT243R	BT244R	BT246R	BT248R
9 x 8 mm	9 x 13 mm	9 x 19 mm	9 x 29 mm	9 x 40 mm

semi-sharp
halbscharf





BT257R	BT259R	BT260R	BT261R	BT265R
8.5 x 8 mm	8.5 x 13 mm	8.5 x 19 mm	8.5 x 29 mm	8.5 x 40 mm

blunt
stumpf





BT252R	BT253R	BT254R	BT256R	BT258R
8 x 8 mm	8 x 13 mm	8 x 19 mm	8 x 29 mm	8 x 40 mm



VOLKMANN

BT242R–BT265R

220 mm, 8 3/4"

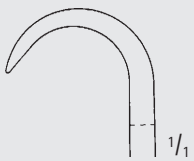


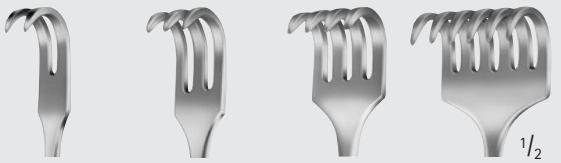
KOCHER

BT262R–BT276R

220 mm, 8 3/4"

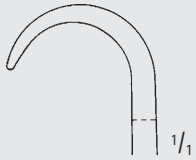
semi-sharp
halbscharf





BT262R	BT263R	BT264R	BT266R
16 x 9 mm	16 x 14 mm	16 x 20 mm	16 x 30 mm

blunt
stumpf

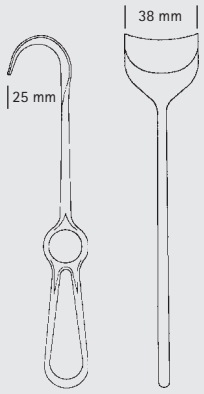




BT272R	BT273R	BT274R	BT276R
15.5 x 9 mm	15.5 x 14 mm	15.5 x 20 mm	15.5 x 30 mm

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite



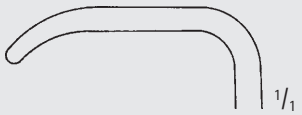


1/2

LANGENBECK

BT320R–BT326R

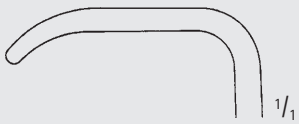
210 mm, 8 1/4"



1/1

BT320R

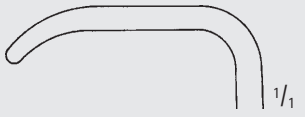
28 x 10 mm



1/1

BT323R

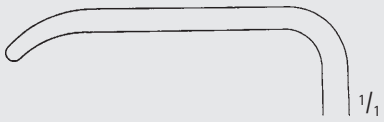
28 x 16 mm



1/1

BT321R

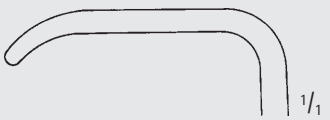
28 x 14 mm



1/1

BT325R

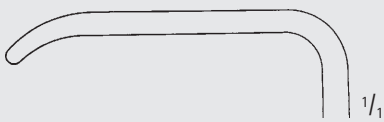
40 x 10 mm



1/1

BT322R

33 x 14 mm



1/1

BT326R

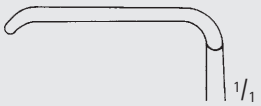
40 x 13 mm



KOCHER-LANGENBECK

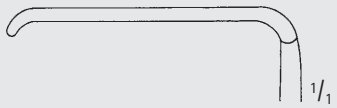
BT354R–BT365R

215 mm, 8 1/2"



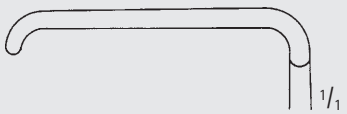
BT354R

25 x 6 mm



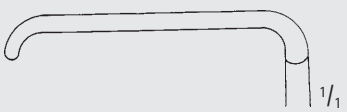
BT356R

35 x 8 mm



BT357R

35 x 11 mm



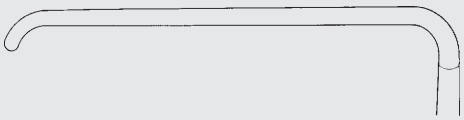
BT358R

35 x 15 mm



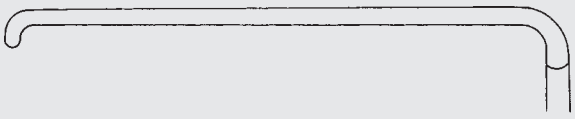
BT359R

41 x 11 mm



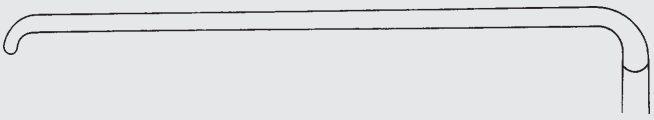
BT361R

55 x 11 mm



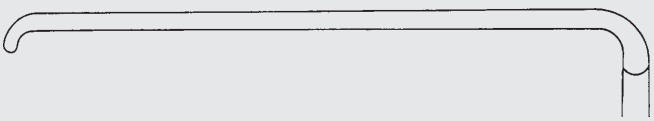
BT363R

70 x 14 mm



BT364R

80 x 12 mm

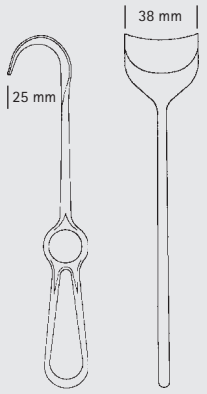


BT365R

80 x 16 mm

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite

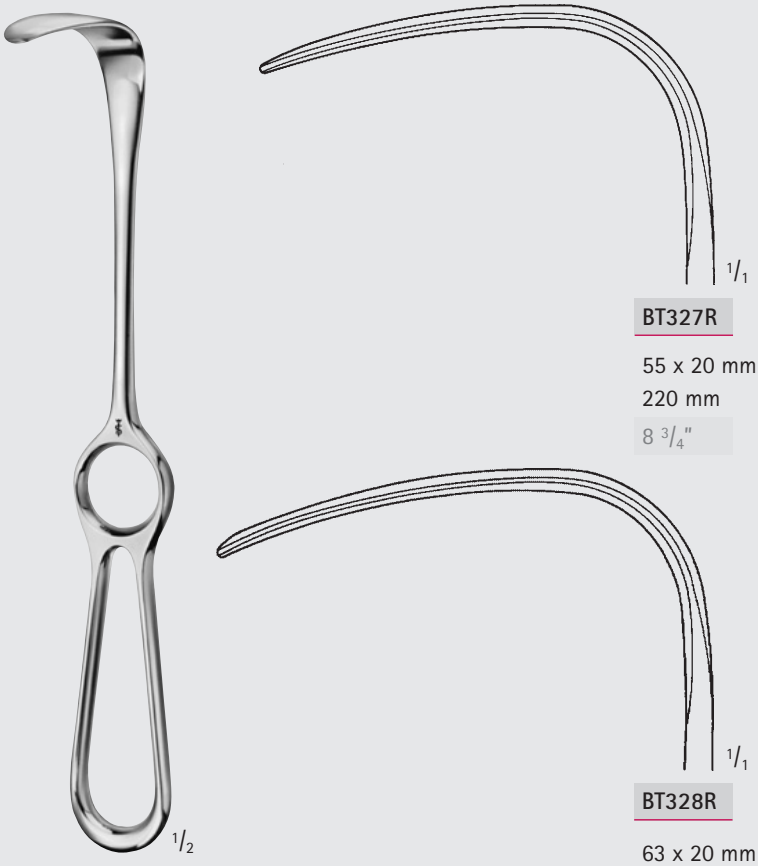




KOCHER

BT340R

210 mm, 8 1/4"



LANGENBECK

BT327R-BT328R

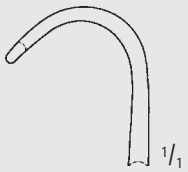
BT327R

55 x 20 mm
220 mm
8 3/4"

BT328R

63 x 20 mm
210 mm
8 1/4"





1/1

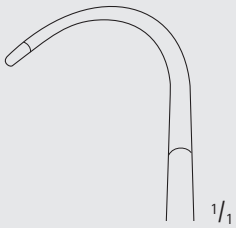
BT404R

15 x 15 mm

220 mm

8 3/4"





1/1

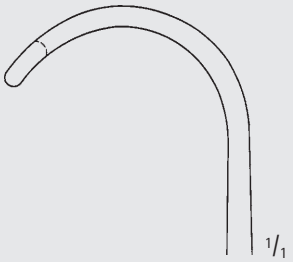
BT405R

20 x 22 mm

215 mm

8 1/2"





1/1

BT406R

28 x 28 mm

235 mm

9 1/4"



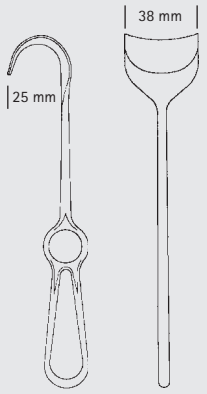
1/2

MIDDELDORPF

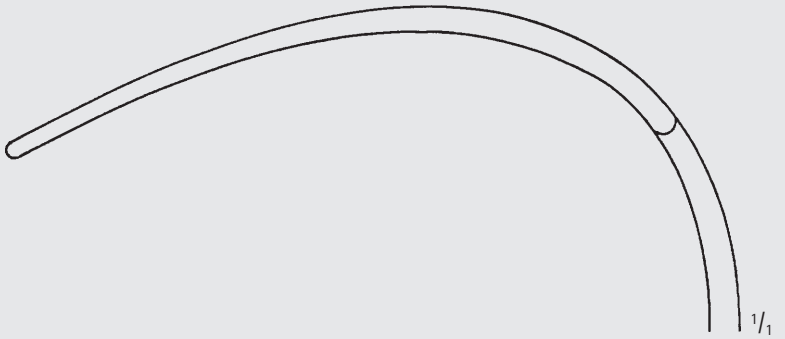
BT404R–BT406R

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite



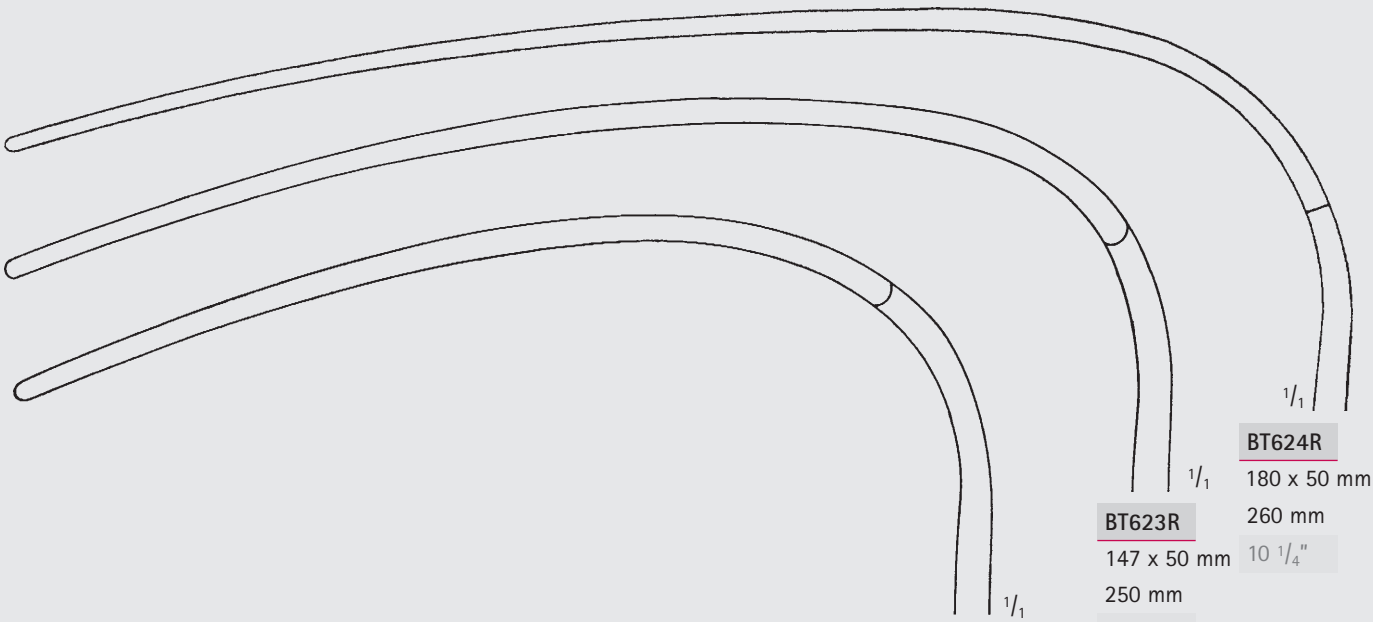




MIKULICZ

BT621R

240 mm, 9 1/2"



1/1

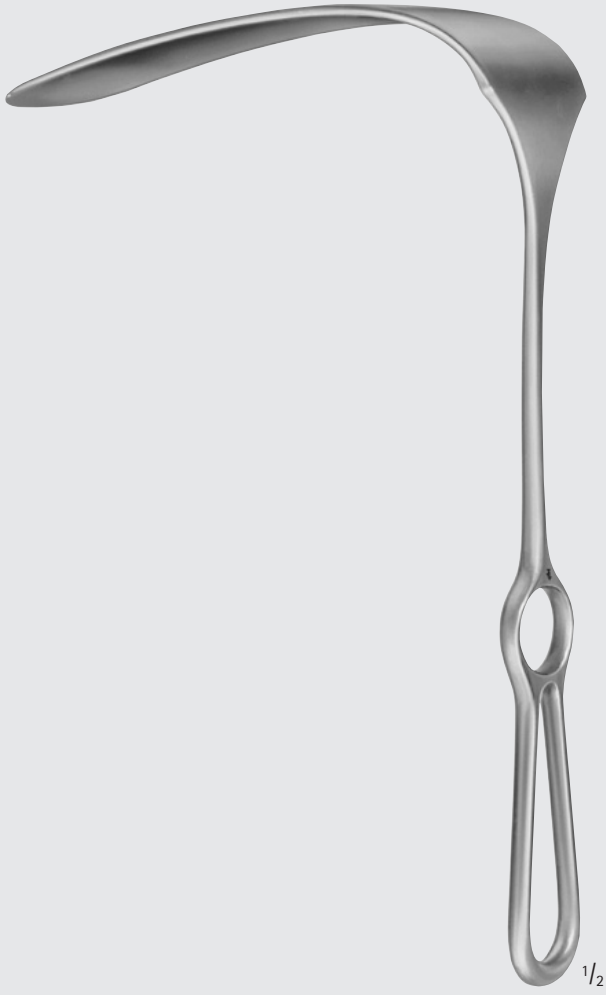
BT624R
180 x 50 mm
260 mm
10 1/4"

1/1

BT623R
147 x 50 mm
250 mm
10"

1/1

BT622R
121 x 50 mm
250 mm
10"



1/2

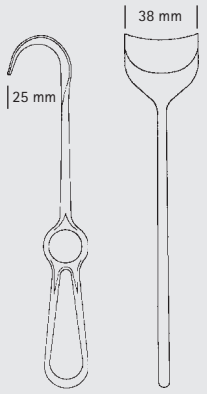
MIKULICZ

BT622R–BT624R

Abdominal Retractors
Bauchdeckenhaken

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite



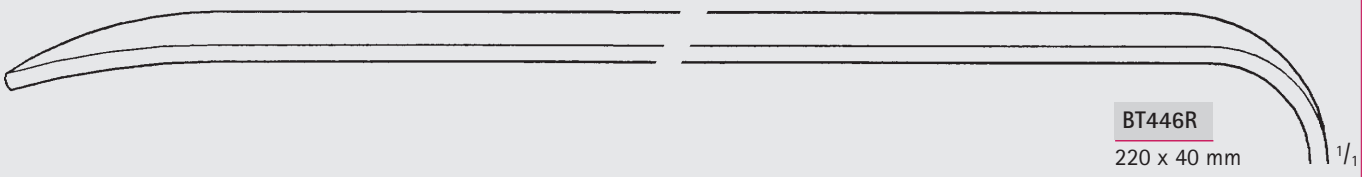


BT633R
155 x 57 mm

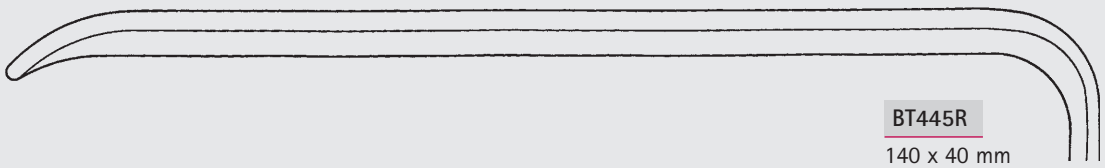
BT630R
150 x 39 mm

KELLY

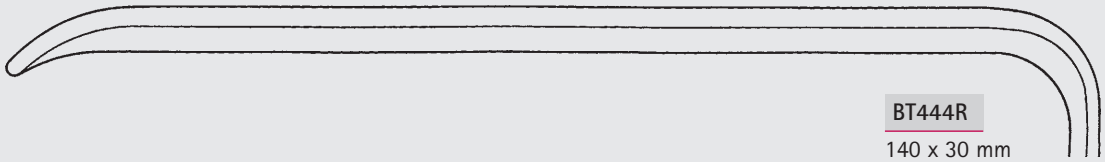
BT630R-BT633R
260 mm, 10 1/4"



BT446R
220 x 40 mm
1/1



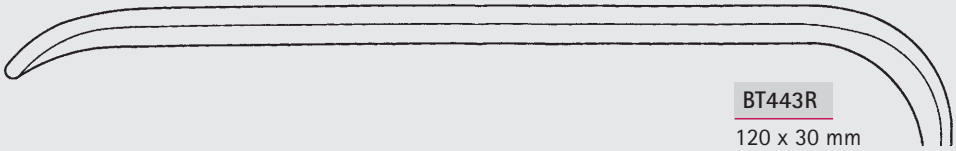
BT445R
140 x 40 mm



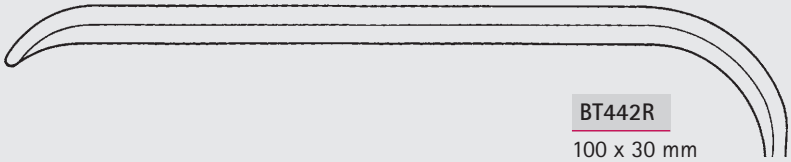
BT444R
140 x 30 mm



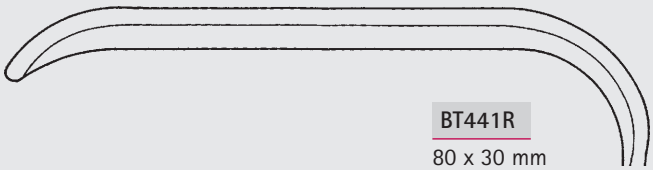
HÖSEL
BT440R–BT446R
250 mm, 10"
1/2



BT443R
120 x 30 mm



BT442R
100 x 30 mm



BT441R
80 x 30 mm

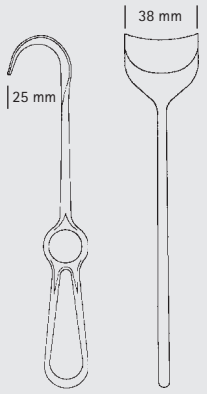


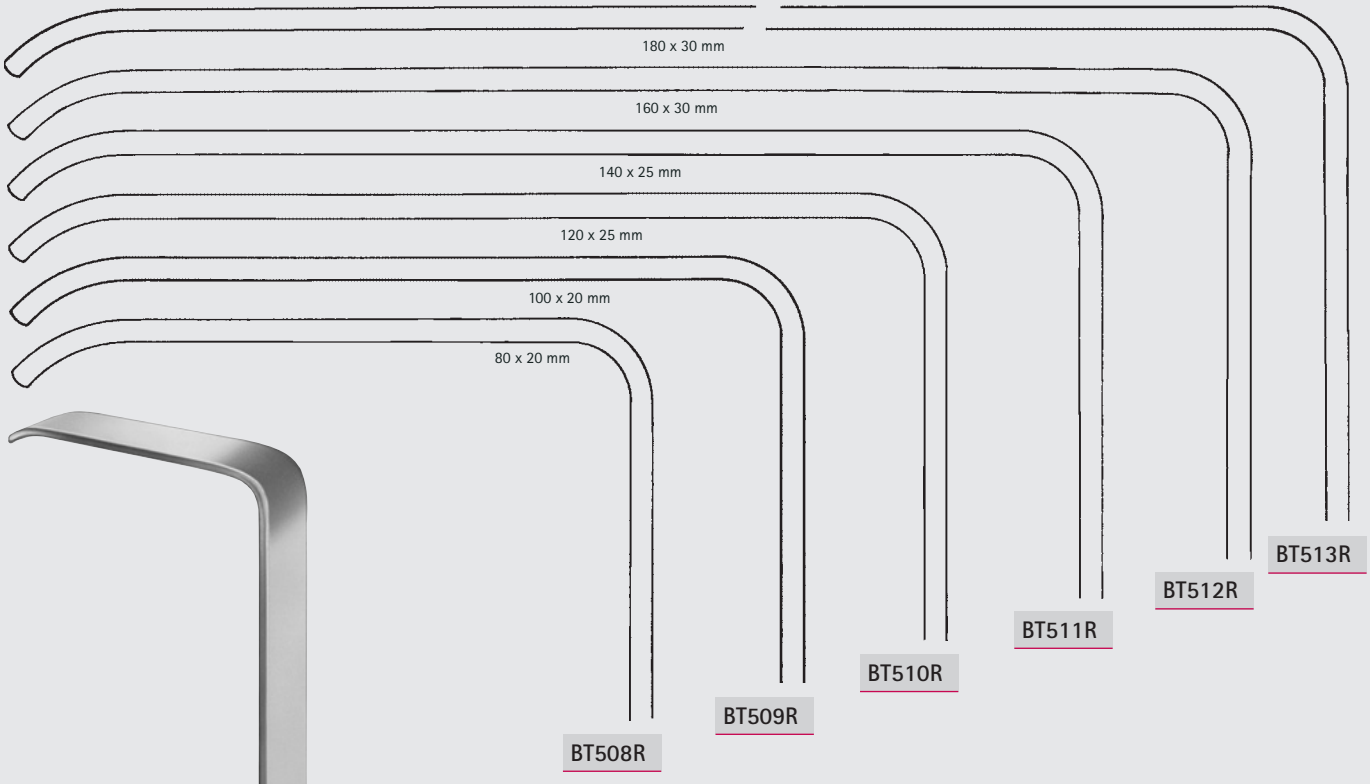
BT440R
60 x 20 mm

Abdominal Retractors
Bauchdeckenhaken

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite







BRUNNER

BT508R–BT513R

250 mm, 10"



SIMON
EL873R
275 mm
10 3/4"

SIMON
EL872R
275 mm
10 3/4"

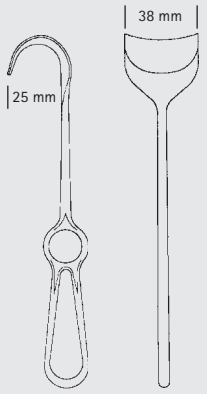
MARTIN
EL870R
250 mm
10"

TÜBINGER MODELL
EL868R
265 mm
10 1/2"

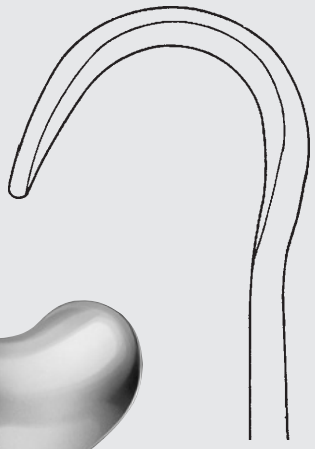
Abdominal Retractors
Bauchdeckenhaken

Dimensions for blade size of retractors
1st number = depth Example: 25 x 38 mm
2nd number = width

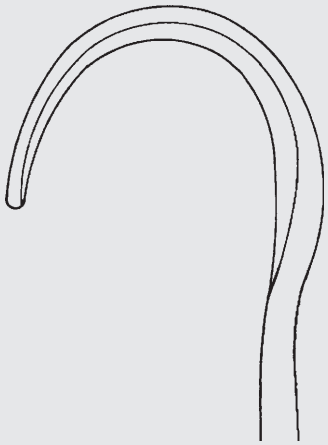
Maßangaben für Blattgrößen der Wundhaken
1. Zahl = Tiefe Beispiel: 25 x 38 mm
2. Zahl = Breite



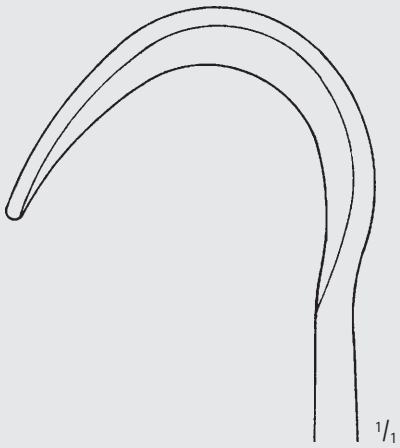




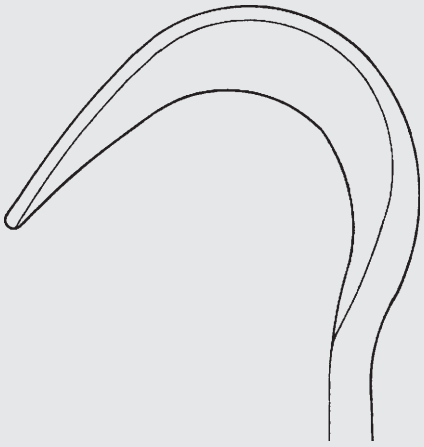
BT655R
Fig. 1
32 x 40 mm



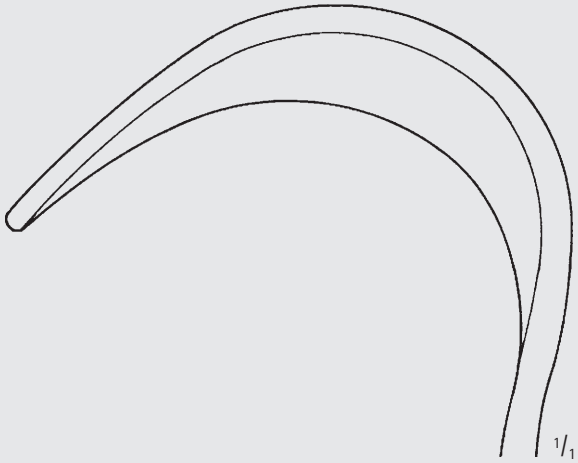
BT656R
Fig. 2
34 x 50 mm



BT657R
Fig. 3
41 x 60 mm



BT658R
Fig. 4
46 x 75 mm



BT659R
Fig. 5
64 x 85 mm

FRITSCH

BT655R–BT659R

235 mm, 9 1/4"



REVERDIN

BT749R

285 mm, 11 1/4"



HABERER

BT758R

malleable

biegsam

305 mm, 12"



RIBBON

BT756R	25 mm
BT761R	30 mm
BT762R	40 mm
BT763R	50 mm

malleable

biegsam

330 mm, 13 1/8"



TUFFIER

BT750R

malleable

biegsam

200 mm, 8"



BT751R	12 mm	200 mm, 8"
BT752R	17 mm	200 mm, 8"
BT755R	25 mm	250 mm, 10"

malleable

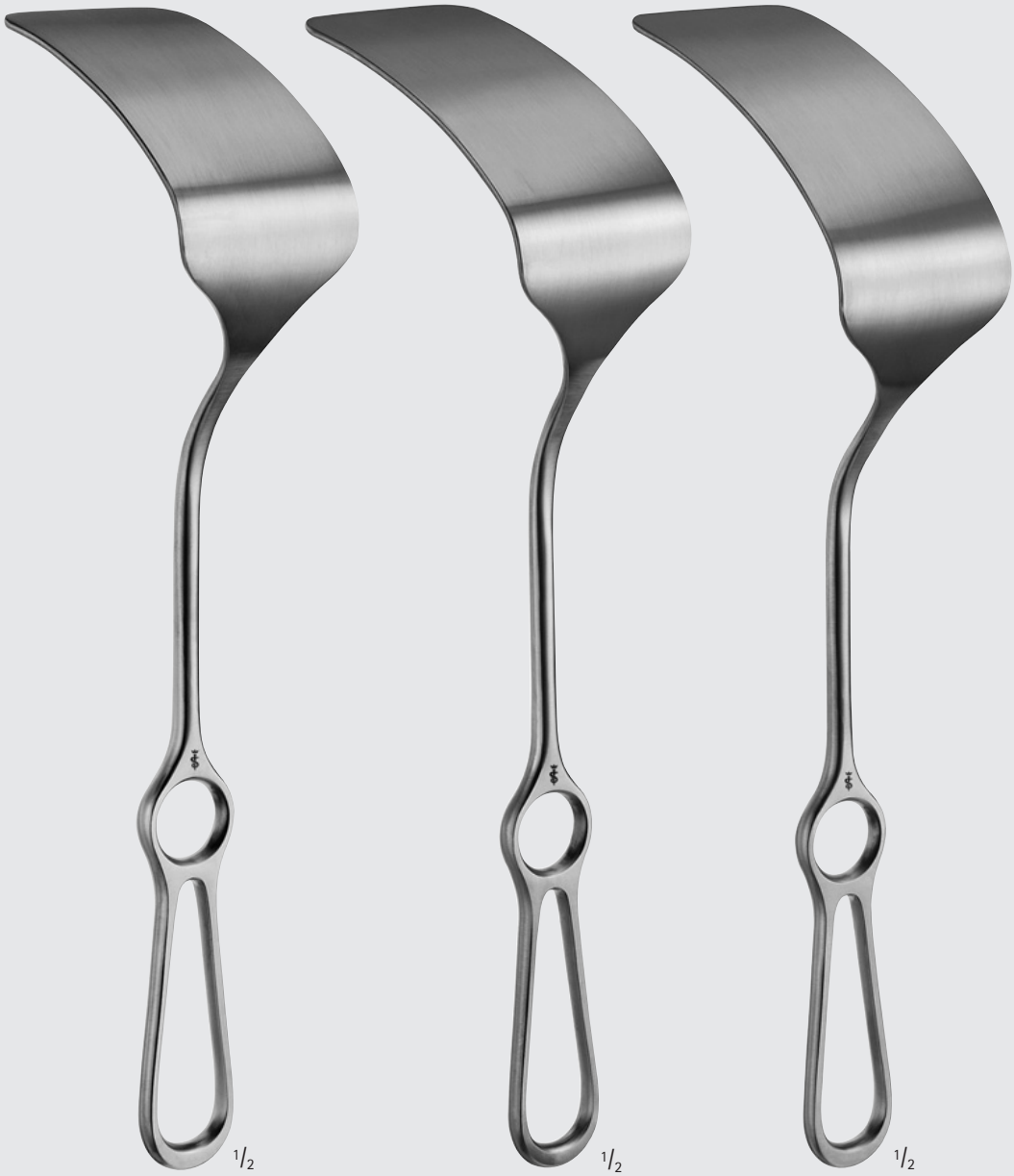
biegsam

Abdominal retractors for exposing of the abdominal aorta

- To be used in pairs:
  - left side: small retractor (BT640R-BT642R)
  - right side: large retractor (BT643R-BT645R)
    to keep away organs and tissue, e.g. intestine

Bauchdeckenhaken zur übersichtlichen Darstellung der Bauch-Aorta

- Einsatz erfolgt paarweise:
  - linke Seite: schmaler Haken (BT640R-BT642R)
  - rechte Seite: breiter Haken (BT643R-BT645R)
    zum Weghalten von Organ-und Gewebestrukturen, wie z.B. des Darms



VOLLMAR

BT640R-BT642R

left,
small

links,
schmal

320 mm, 12 3/4"

	BT640R	BT641R	BT642R
Blade width Blattbreite	60 mm	60 mm	60 mm
Blade length Blattlänge	110 mm	120 mm	130 mm



VOLLMAR

BT643R–BT645R

right,
large

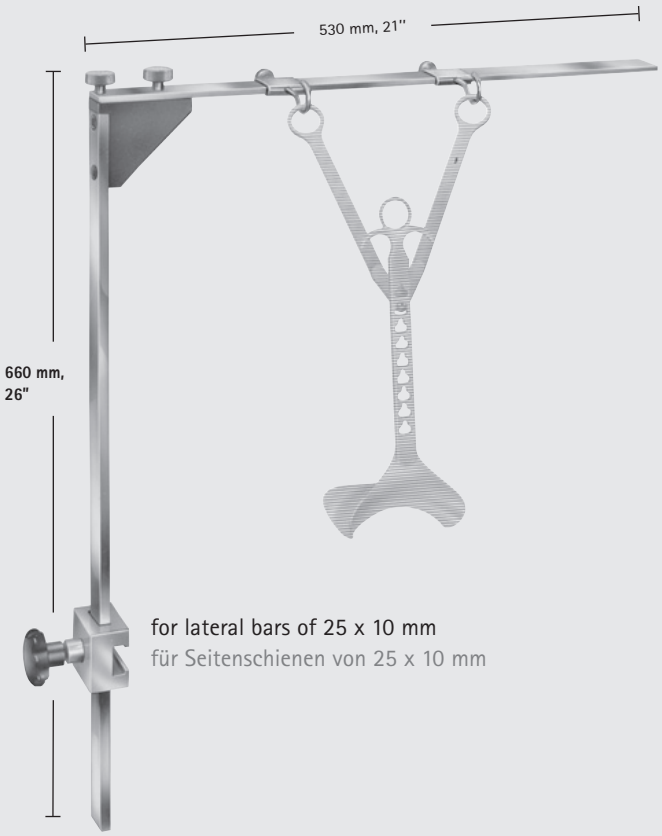
rechts,
breit

320 mm, 12 3/4"

	BT643R	BT644R	BT645R
Blade width Blattbreite	110 mm	110 mm	110 mm
Blade length Blattlänge	120 mm	140 mm	160 mm

Mounting frames
- to be used with:
  - BT710R Fixation device and
  - BT711R - BT715R ROCHARD abdominal retractors

Befestigungsgestelle
- zu verwenden mit:
  - BT710R Fixiervorrichtung und
  - BT711R - BT715R ROCHARD Bauchdeckenhalter

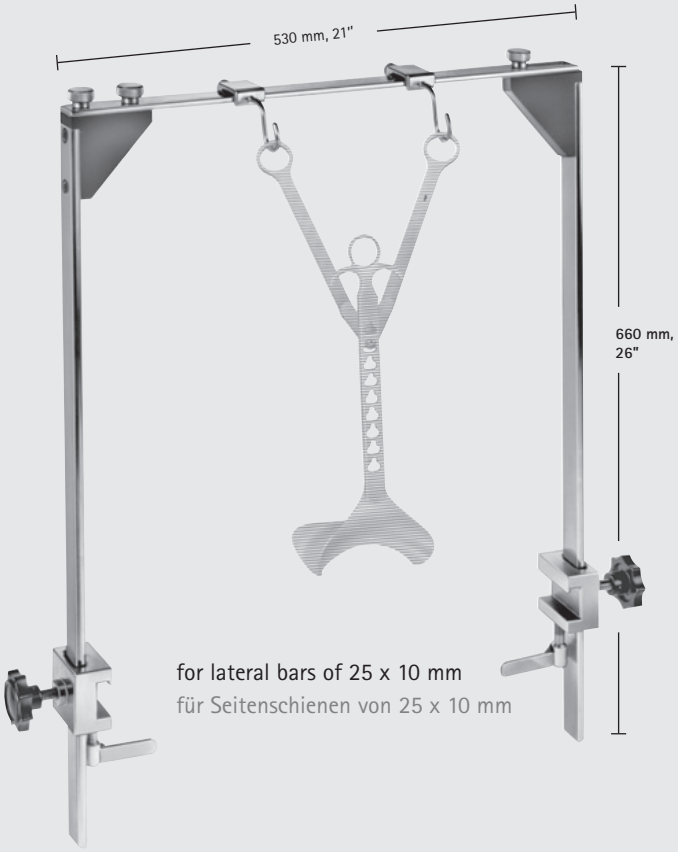


ROCHARD

BT709R

Mounting frame for fastening to the lateral bars of the operating tables, can be dismantled for decontamination and sterilization.

Befestigungsgestell zur Fixierung an den Seitenschienen der OP-Tische, zerlegbar zur Aufbereitung und Sterilisation.



ROCHARD

BT708R

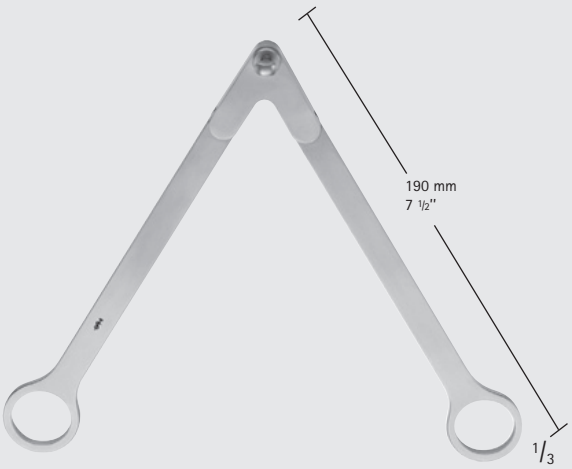
Mounting frame for fastening to both sides of the lateral bars of the operating table, thus more stability is given, can be dismantled for decontamination and sterilization.

Befestigungsgestell mit beidseitiger Fixierung an den Seitenschienen der OP-Tische, dadurch mehr Stabilität, zur Aufbereitung und Sterilisation zerlegbar.



ROCHARD

BT710R–BT715R



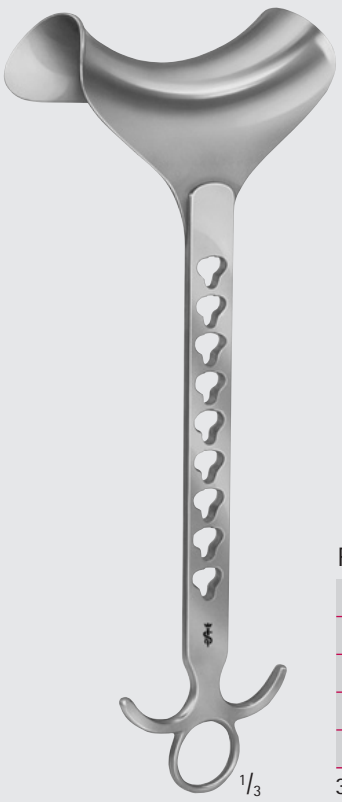
ROCHARD

BT710R

Fixation device for BT711R - BT715R

Fixiervorrichtung für BT711R - BT715R

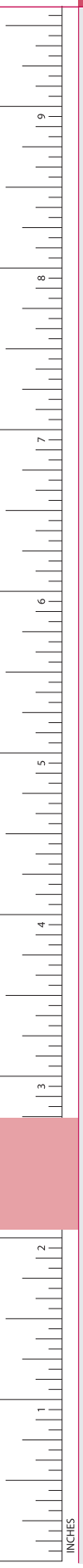
190 mm, 8"



ROCHARD

BT711R	48 x 90 mm
BT712R	48 x 105 mm
BT713R	48 x 120 mm
BT714R	48 x 135 mm
BT715R	48 x 155 mm

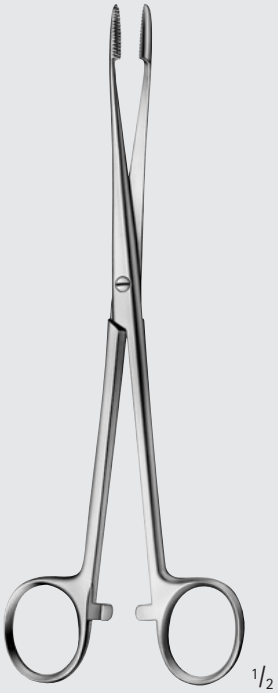
310 mm, 12 1/4"

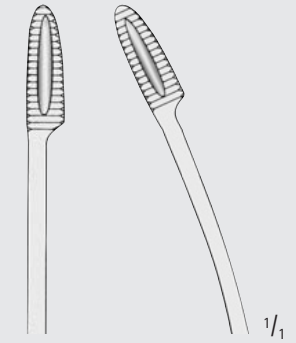

INCHES
1
2
3
4
5
6
7
8
9

General
Allgemein



General Surgical Instruments
Klassisches Chirurgisches Instrumentarium





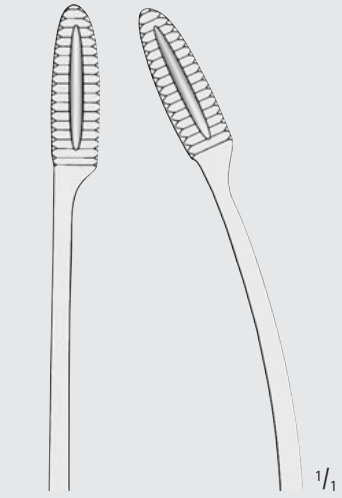
BF032R
straight
gerade

BF033R
curved
gebogen

GROSS

BF032R–BF033R
180 mm, 7"
with ratchet
mit Sperre





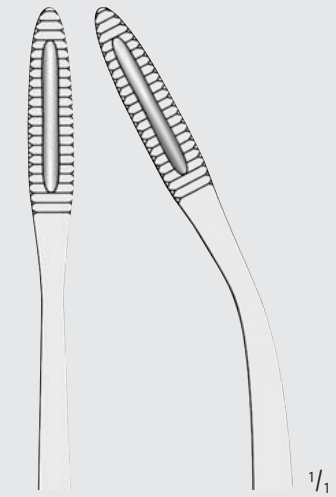
BF040R
straight
gerade

BF041R
curved
gebogen

GROSS

BF040R–BF041R
without ratchet
ohne Sperre
200 mm, 8"



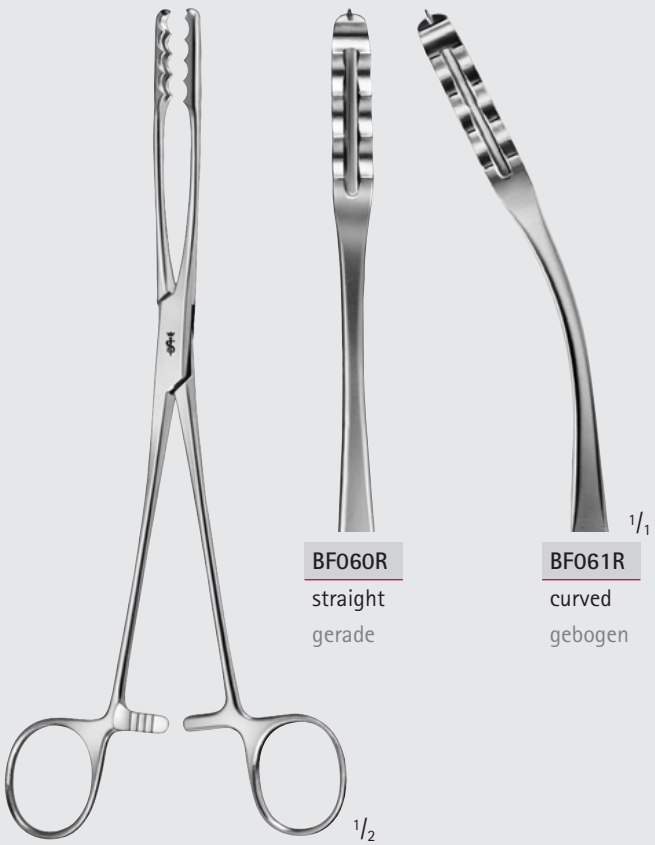


BF046R
straight
gerade

BF047R
curved
gebogen

GROSS

BF046R–BF047R
with ratchet
mit Sperre
200 mm, 8"



BF060R
straight
gerade

BF061R
curved
gebogen

AESCULAP

BF060R–BF061R

with ratchet
mit Sperre
220 mm, 8 3/4"



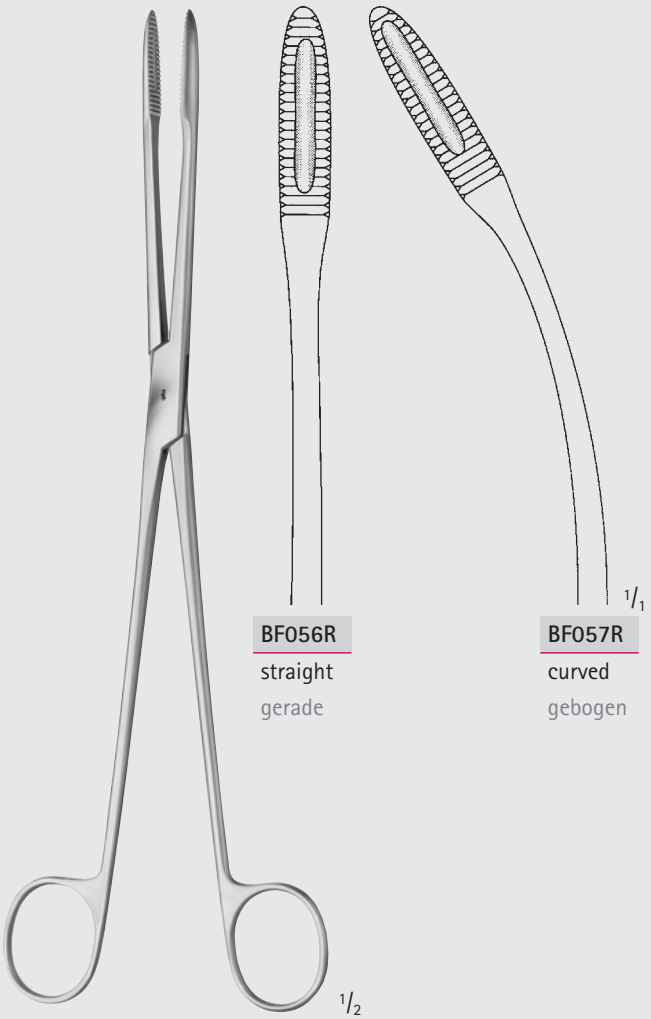
BF062R
straight
gerade

BF063R
curved
gebogen

ULRICH-AESCULAP

BF062R–BF063R

with ratchet
mit Sperre
265 mm, 10 1/2"

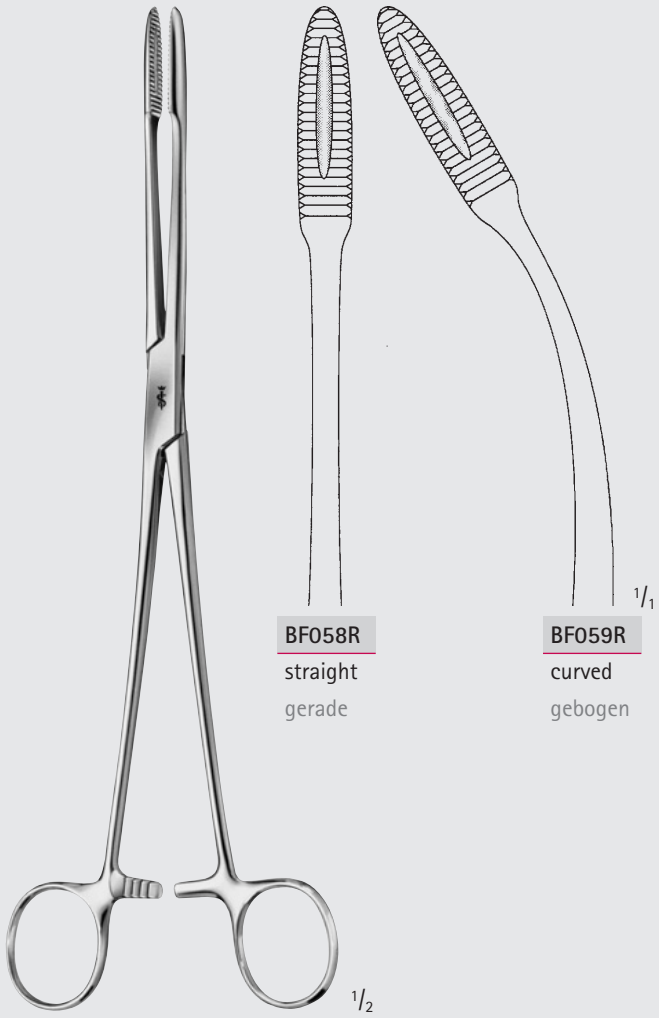


BF056R
straight
gerade

BF057R
curved
gebogen

MAIER

BF056R-BF057R
without ratchet
ohne Sperre
265 mm, 10 1/2"

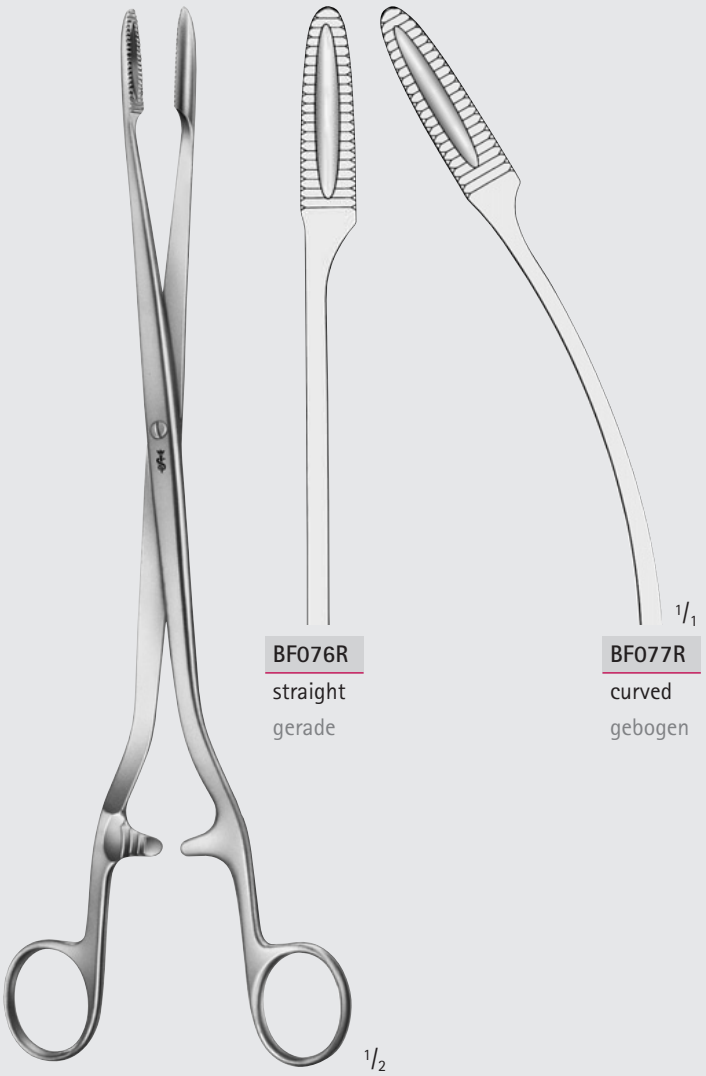


BF058R
straight
gerade

BF059R
curved
gebogen

MAIER

BF058R-BF059R
with ratchet
mit Sperre
265 mm, 10 1/2"



BF076R
straight
gerade

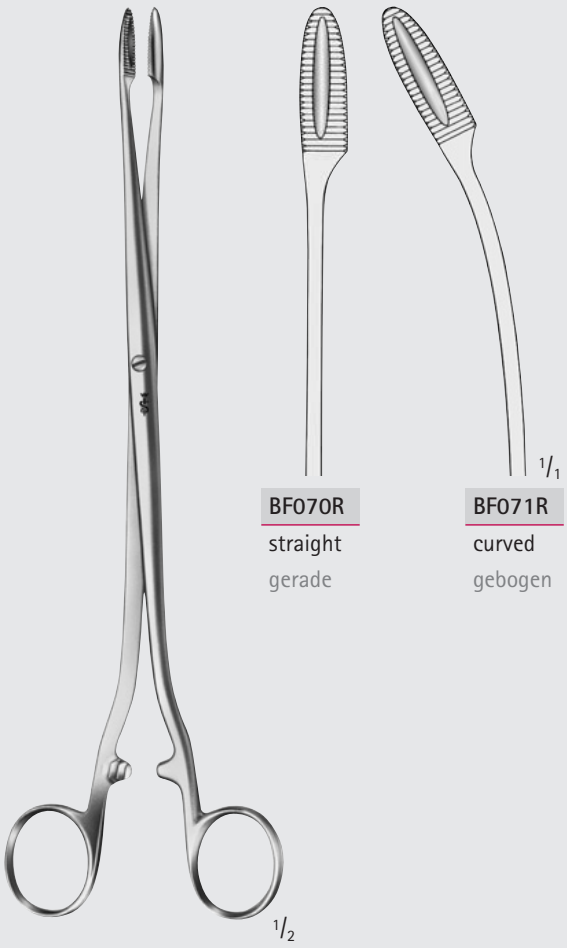
BF077R
curved
gebogen

1/1

1/2

SIMS-MAIER

BF076R–BF077R
with ratchet
mit Sperre
280 mm, 11"



BF070R
straight
gerade

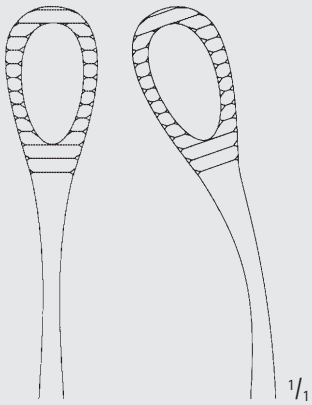
BF071R
curved
gebogen

1/1

1/2

BF070R–BF071R
with ratchet
mit Sperre
240 mm, 9 1/2"





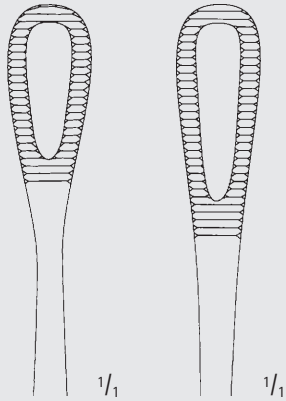
BF112R
straight
gerade

BF113R
curved
gebogen

1/1

FOERSTER-BALLENGER
BF112R–BF113R
with ratchet
mit Sperre
180 mm, 7"





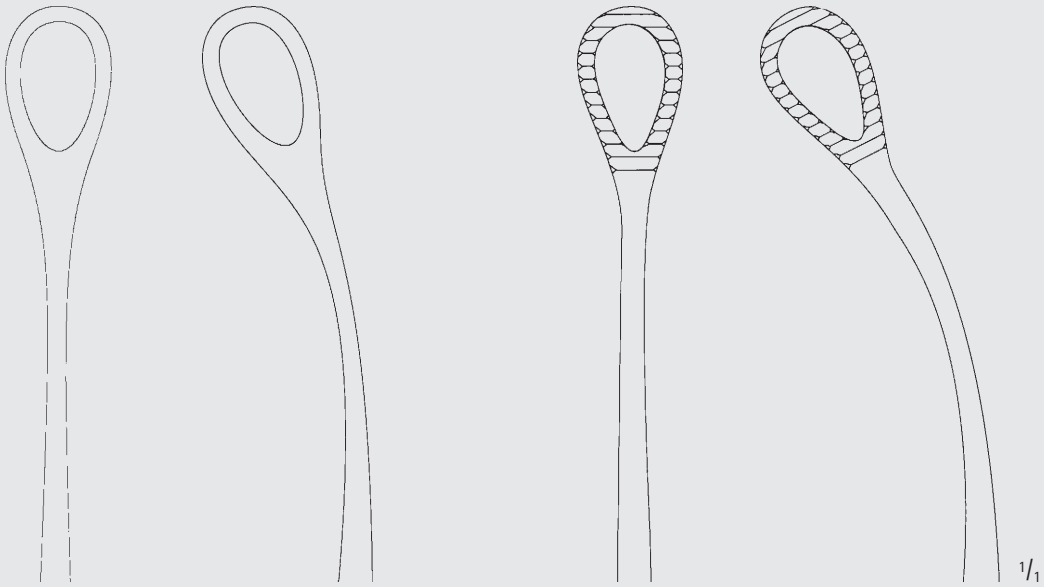
BF116R
straight
gerade
180 mm
7"

BF118R
straight
gerade
250 mm
10"

1/1

RAMPLEY
BF116R–BF118R
with ratchet
mit Sperre





BF120R
smooth jaws
straight
glattes Maul
gerade

BF121R
smooth jaws
curved
glattes Maul
gebogen

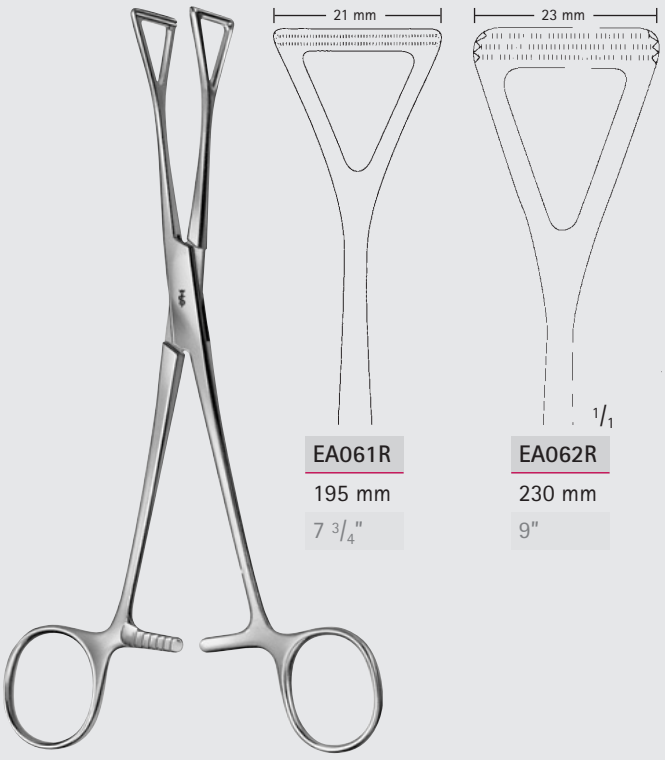
BF122R
straight
gerade

BF123R
curved
gebogen

1/1

FOERSTER-BALLENGER
BF120R–BF123R
with ratchet
mit Sperre
245 mm, 9 3/4"

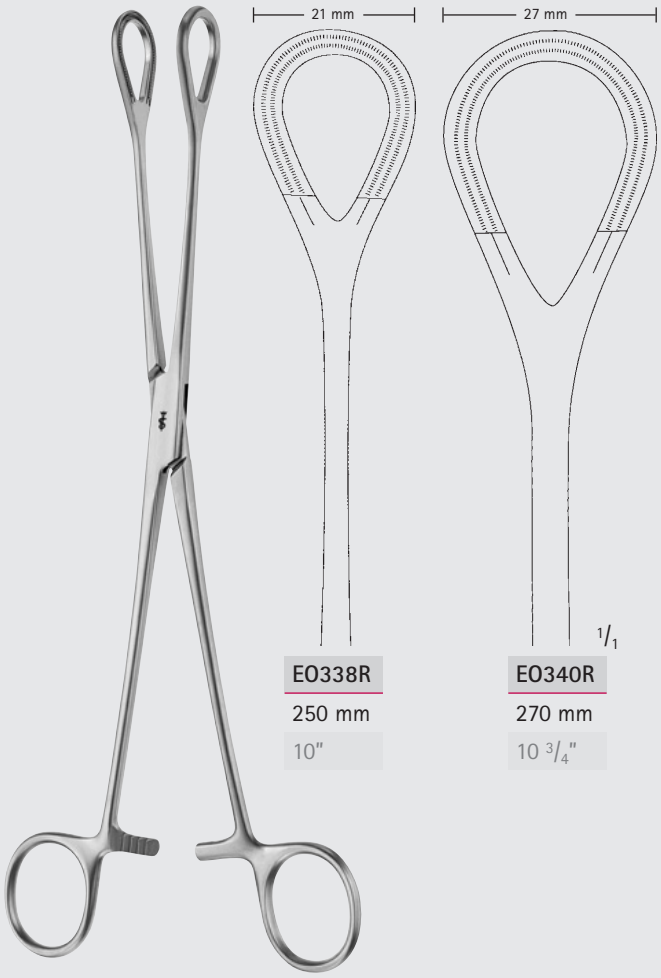
2:3 Teeth rows
2:3 Zahnreihen



EA061R	EA062R
195 mm	230 mm
7 3/4"	9"

COLLIN

EA061R-EA062R



EO338R	EO340R
250 mm	270 mm
10"	10 3/4"

EO338R-EO340R



COLLIN

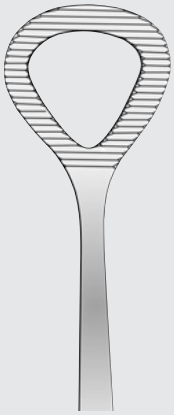
AN709R–BH908R



BH906R

160 mm

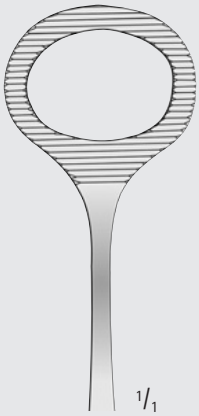
6 1/4"



BH908R

160 mm

6 1/4"



AN709R

170 mm

6 3/4"



HEYWOOD-SMITH

AN710R

200 mm, 8"

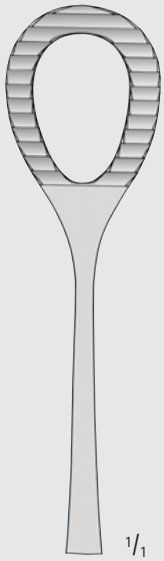


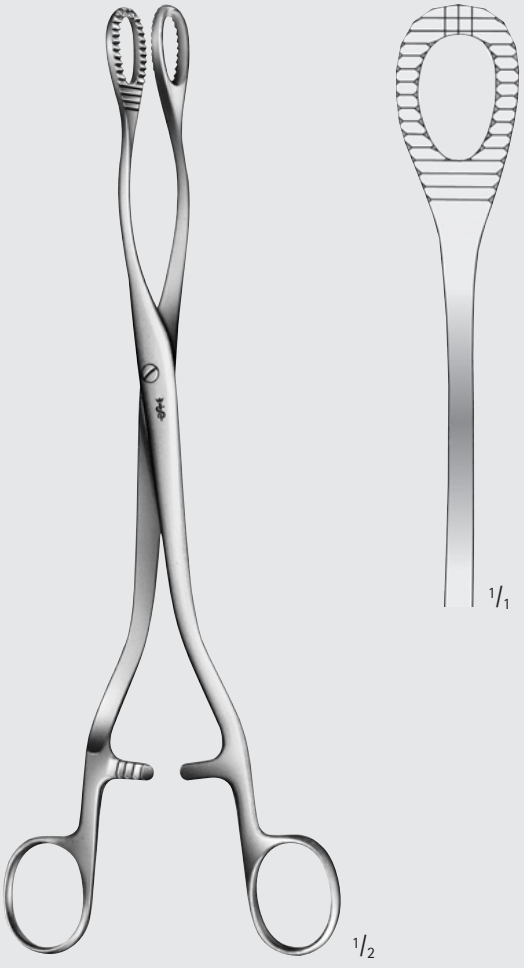


HEYWOOD-SMITH MODIF.

AN711R

215 mm, 8 1/2"

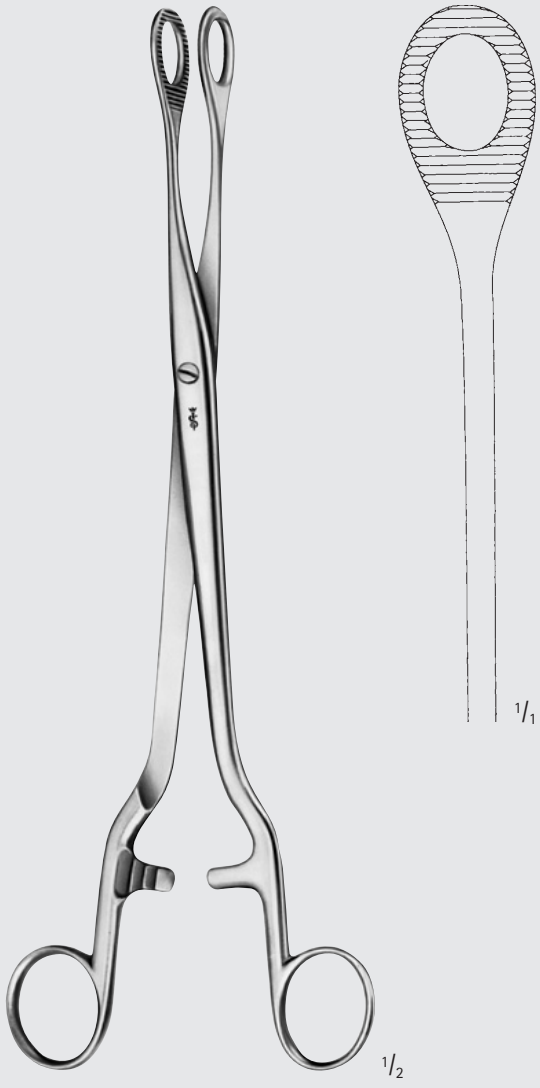




HEYWOOD-SMITH

EO310R

250 mm, 10"

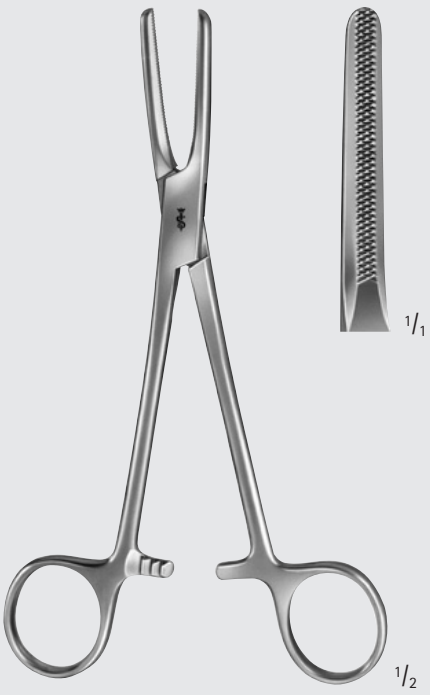


NOTO

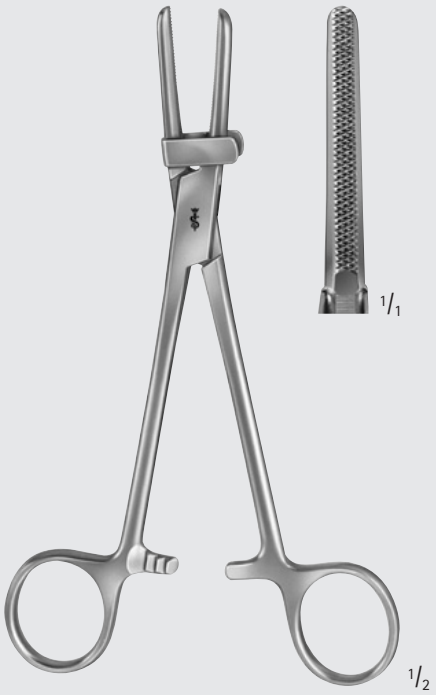
EO315R

280 mm, 11"

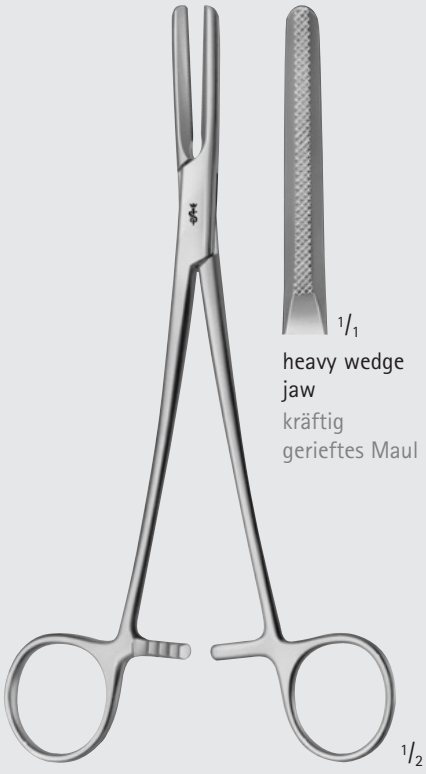
MILLIMETERS



AN912R
180 mm, 7"



AN911R
with guard
mit Bügel
180 mm, 7"



AN913R
200 mm, 8"



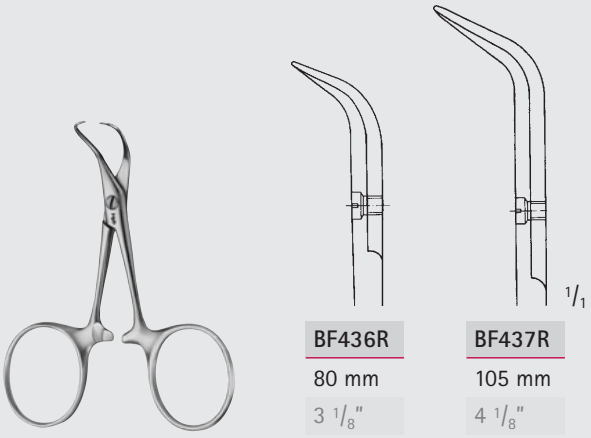
MD452R	MD453R	MD454R
150 mm	180 mm	200 mm
6"	7"	8"

MD452R–MD454R



MD652	MD653	MD654
150 mm	180 mm	200 mm
6"	7"	8"

MD652–MD654
with guard
mit Bügel

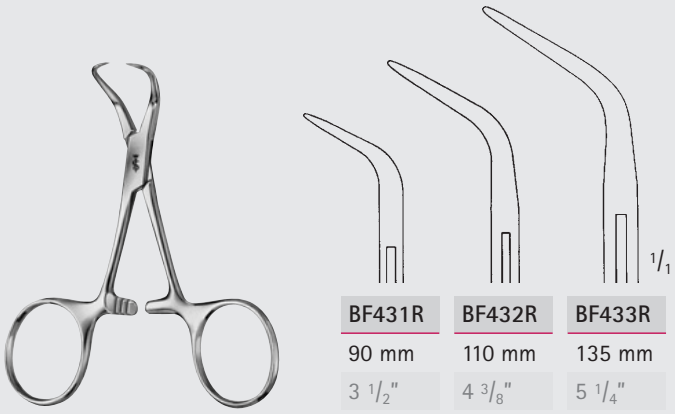


BACKHAUS

BF436R–BF437R

BF436R	BF437R
80 mm	105 mm
3 1/8"	4 1/8"

1/1

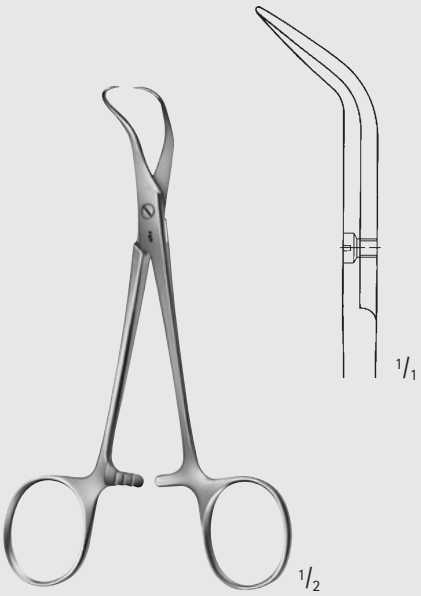


BACKHAUS

BF431R–BF433R

BF431R	BF432R	BF433R
90 mm	110 mm	135 mm
3 1/2"	4 3/8"	5 1/4"

1/1

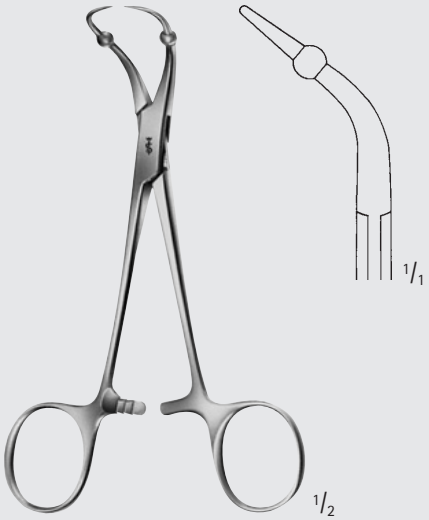


BACKHAUS-KOCHER

BF444R

135 mm, 5 1/4"

1/1 1/2

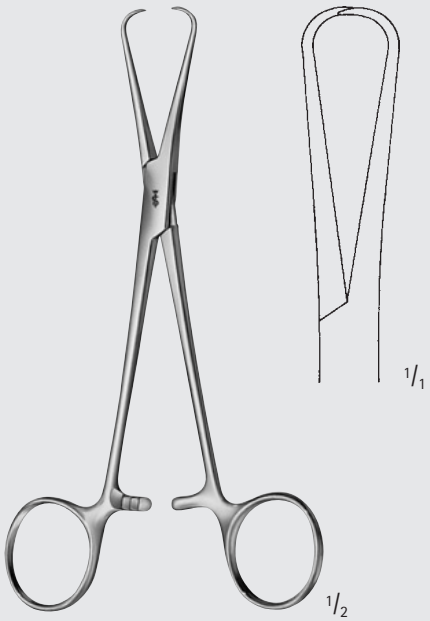


ROEDER

BF448R

135 mm, 5 1/4"

1/1 1/2



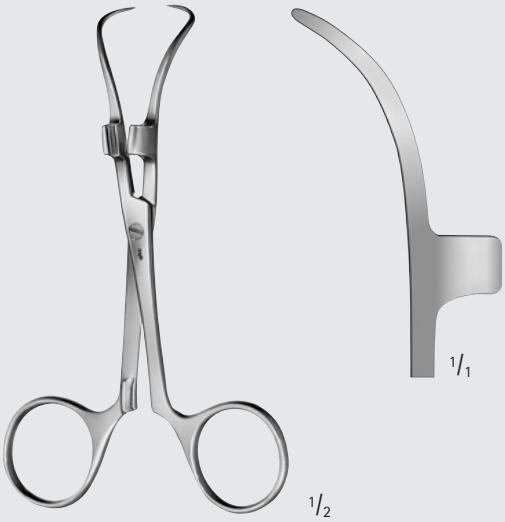
BERNHARD

BF426R

160 mm, 6 1/4"

1/1 1/2

MILLIMETERS



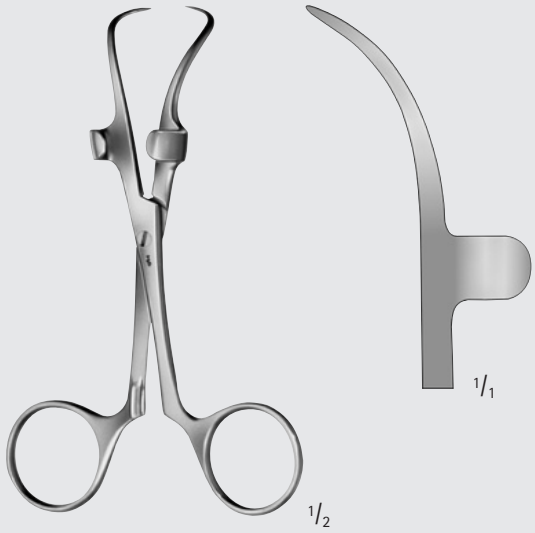
ROBIN

BF439R

with holders
for cable up to 5 mm

mit Kabelhalterung
bis 5 mm Kabelstärke

135 mm, 5 1/4"



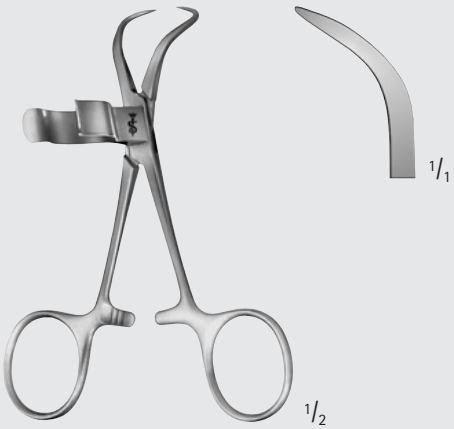
ROBIN

BF440R

with holders
for tubing up to 13 mm

mit Schlauchhalterung
bis 13 mm Schlauchstärke

135 mm, 5 1/4"

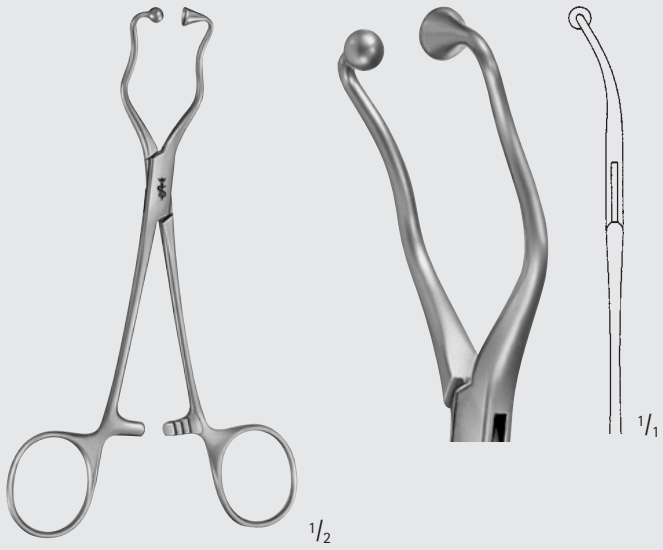


BF442R

with holders
for tubing up to 15 mm

mit Schlauchhalterung bis
15 mm Schlauchstärke

110 mm, 4 3/8"



BF443R

Tube fixation forceps with
atraumatic jaw parts

Doppelschlauch-Fixierklemme
atraumatische Fassfläche

140 mm, 5 1/2"

Especially suitable for HLM
tubes for cardiovascular surgery

Besonders geeignet für HLM-
Schläuche in der Herzchirurgie



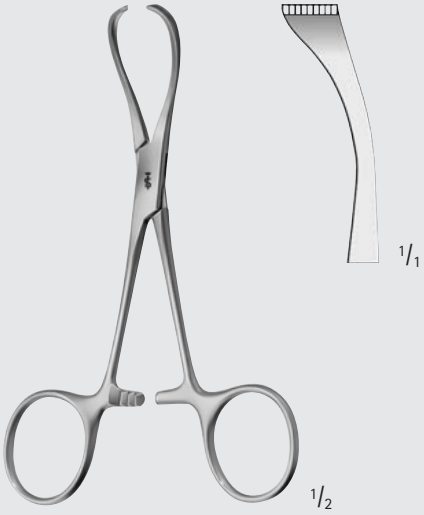
LORNA

BF461R

non-perforating

nicht perforierend

95 mm, 3 3/4"



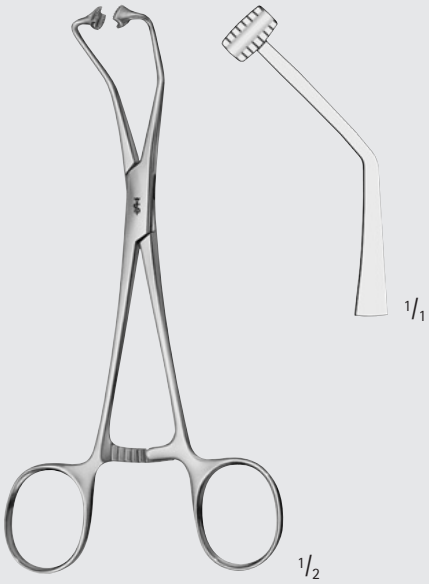
LORNA

BF463R

non-perforating

nicht perforierend

130 mm, 5 1/8"

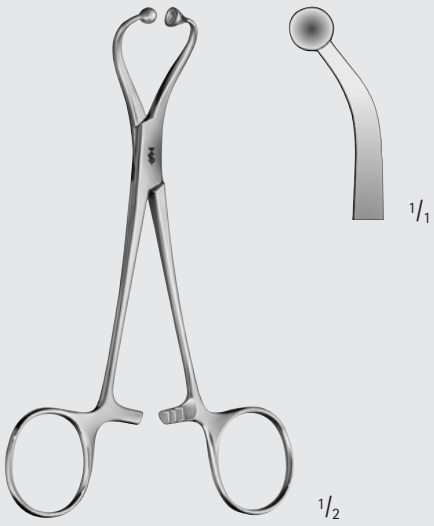


BF460R

for paper cloths

für Papiertücher

150 mm, 6"

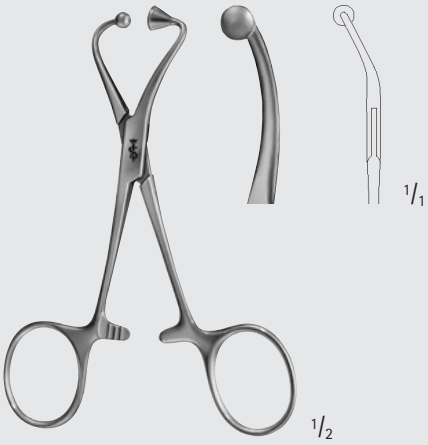


BF464R

for paper cloths

für Papiertücher

140 mm, 5 1/2"

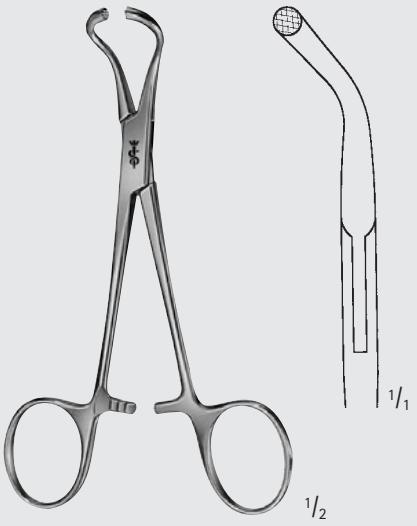


BF465R

for paper cloths

für Papiertücher

115 mm, 4 1/2"



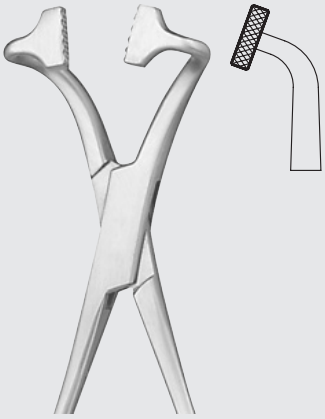
BF466R

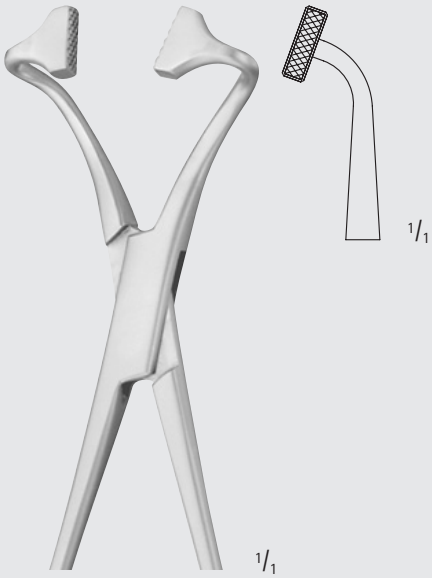
for paper cloths

für Papiertücher

135 mm, 5 1/4"







BF458R
100 mm
4"

BF459R
135 mm
5 1/4"

BF458R–BF459R
non-perforating
nicht perforierend

Features

- Prevention of sharp injuries
- Complies with the requirements of TRBA250, 4.2.7
- Safe passing, receiving and disposal
- Simple handling
- Single-handed opening and closing
- Safety lock for disposal
- Stable and precise to handle
- Top quality Aesculap blade

Merkmale

- Vermeidung von Stich- und Schnittverletzungen
- Erfüllt die Anforderungen der TRBA250, 4.2.7
- Sicheres Anreichen, Abnehmen und Entsorgen
- Einfache Handhabung
- Öffnen und Schließen mit einer Hand
- Sichere Verriegelung zur Entsorgung
- Stabil und präzise in der Handhabung
- Aesculap Qualitätsklinge

Passing and receiving – Anreichen und Abnehmen

Transparent blade protector:
- Blade shape is visible
- Position of blade is always evident

Transparenter Klingenschutz:
- Klingenfigur ist sichtbar
- Position der Klinge jederzeit erkennbar



Single-hand operation

Einhandbedienung

Operating – Operieren



Firm guidance for precise incision

Wackelfreie Führung für präzisen Schnitt

Ruler in cm and inches

Lineal in cm und inch

Disposal – Entsorgen



Safety lock for disposal

Sichere Verriegelung zur Entsorgung

BA810SU–BA836SU

Sales unit:
PAK = Package of 10 pieces
Bestelleinheit:
PAK = Packung à 10 Stück



BA810SU
Fig. 10



BA811SU
Fig. 11



BA813SU
Fig. 13



BA815SU
Fig. 15



BA815-1SU
Fig. 15-1



BA815-CSU
Fig. 15-C



BA818SU
Fig. 18



BA819SU
Fig. 19



BA820SU
Fig. 20



BA821SU
Fig. 21



BA822SU
Fig. 22



BA823SU
Fig. 23



BA824SU
Fig. 24



BA825SU
Fig. 25



BA836SU
Fig. 36

BA210–BA224 / 5518016–5518105

Sterile scalpels with plastic handle and removable blade protector
Sales unit:
PAK = Package of 10 pieces

Sterilskalpelle mit Kunststoffheft und abnehmbarem Klingenschutz
Bestelleinheit:
PAK = Packung à 10 Stück





Carbon Steel **BA210**
Stainless Steel **5518059**
Fig. 10



BA211
5518040
Fig. 11



BA212
5518105
Fig. 12



BA215
5518032
Fig. 15



BA215-1
Fig. 15-1



BA215-C
Fig. 15-C



BA218
Fig. 18



Carbon Steel BA219
Stainless Steel
Fig. 19



BA220
5518067
Fig. 20



BA221
5518075
Fig. 21



BA222
5518083
Fig. 22



BA223
5518016
Fig. 23



BA224
5518091
Fig. 24

BA311SU–BA323SU

Sales unit:
PAK = Package of 10 pieces
Bestelleinheit:
PAK = Packung à 10 Stück

BA364–BA367

Sales unit:
PAK = Package of 5 pieces
Bestelleinheit:
PAK = Packung à 5 Stück



BA311SU
Fig. 11
230 mm, 9"



BA323SU
Fig. 23
230 mm, 9"



1/1

BA364
165 mm, 6 1/2"



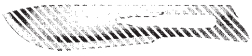
1/1

BA365
165 mm, 6 1/2"



1/1

BA367
165 mm, 6 1/2"





For blades fig.10 - 15 and fig. 40, 42
Für Klingen Fig. 10 - 15 und Fig. 40, 42



BARRON
BB068R
130 mm, 5 1/8"
1/1



BB073R
No. 3
125 mm, 5"
1/1



BB074R
No. 3
with cm / inch scale
cm / inch graduiert
1/1 125 mm, 5"



BB075R
No. 3 L
210 mm, 8 1/4"
1/1



For blades fig.10 - 15 and fig. 40, 42
Für Klingen Fig. 10 - 15 und Fig. 40, 42



BB175R
No. 3 XL
250 mm, 10"





BB177R



BB176R
12°



BB178R
25°

1/1

BARRÉ

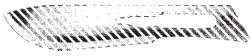
BB176R–BB178R
No. 3 XL
250 mm, 10"



1/1

corresponds with english No. 5
entspricht der englischen No. 5

BB077R
No. 7
160 mm, 6 1/4"

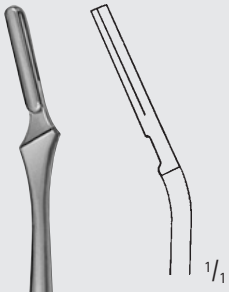




For blades fig. 10 - 15 and fig. 40, 42
Für Klingen Fig. 10 - 15 und Fig. 40, 42



BB078R
225 mm, 9"



BB079R
225 mm, 9"





BB071R
210 mm, 8 1/4"



BB070R
155 mm, 6"



For blades fig. 18 - 36
Für Klingen Fig. 18 - 36



1/1

BB084R
No. 4
135 mm, 5 1/4"



1/1

BB085R
No. 4 L
215 mm, 8 1/2"



BB087R
No. 4 XL
250 mm, 10"



BB080R
No. 4
225 mm, 9"



1/1

BB088R
No.8
130 mm, 5 1/8"



1/1

BB089R
145 mm, 5 3/4"



heat-treated in vacuum
vakuum vergütet

sterile
steril

BB510–BB542
1660492–16615492

fitting handles on
pages 483 - 485
Sales unit:
PAK = Package of 100 pieces
in dispenser package
passend zu den Griffen
auf Seite 483 - 485
Bestelleinheit:
PAK = Packung à 100 Stück
in Spenderpackung



1/1

Fig. 10

Carbon Steel **BB510**
Stainless Steel **16600495**



1/1

Fig. 11

BB511
16600509



1/1

Fig. 12

BB512
16600517



1/1

Fig. 13

BB513
16615492

Carbon Steel
Stainless Steel



1/1

Fig. 15

BB515
16600525



1/1

Fig. 15-1

BB515-1



1/1

Fig. 15-C

BB515-C



1/1

Fig. 40

BB540
double cutting
doppelschneidig



1/1

Fig. 42

BB542
double cutting
doppelschneidig



heat-treated in vacuum
vakuum vergütet

sterile
steril

BB518–BB536
1160541–16616634

fitting handles on
pages 486
Sales unit:
PAK = Package of 100 pieces
in dispenser package
passend zu den Griffen
auf Seite 486
Bestelleinheit:
PAK = Packung à 100 Stück
in Spenderpackung



1/1

Fig. 18

Carbon Steel	**BB518**
Stainless Steel	**16600541**



1/1

Fig. 19

Carbon Steel	**BB519**
Stainless Steel	**16615514**



1/1

Fig. 20

Carbon Steel	**BB520**
Stainless Steel	**16600550**



1/1

Fig. 21

Carbon Steel	**BB521**
Stainless Steel	**16600568**



1/1

Fig. 22

Carbon Steel	**BB522**
Stainless Steel	**16600576**



1/1

Fig. 23

Carbon Steel	**BB523**
Stainless Steel	**16600584**



1/1

Fig. 24

Carbon Steel	**BB524**
Stainless Steel	**16600592**



1/1

Fig. 25

Carbon Steel	**BB525**
Stainless Steel	**16616634**



1/1

Fig. 36

Carbon Steel	**BB536**
Stainless Steel	**16615522**



1/1

Carbon Steel	**BB500**
Stainless Steel	**16600487**

Stitch-cutter
Fadenmesser

Sales unit:
PAK = Package of 100 pieces
Bestelleinheit:
PAK = Packung à 100 Stück



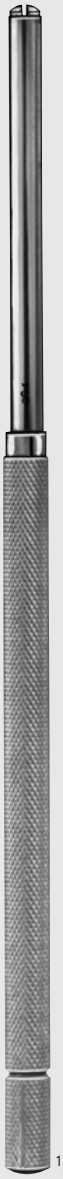
1/1

BB045T
145 mm, 5 3/4"



1/1

BB046R
135 mm, 5 1/4"



1/1

BB048R
155 mm, 6"



1/1

CASPAR
BB052R
180 mm, 7"



1/1

BB054R
200 mm, 8"



2/3

BB060R
330 mm, 13"



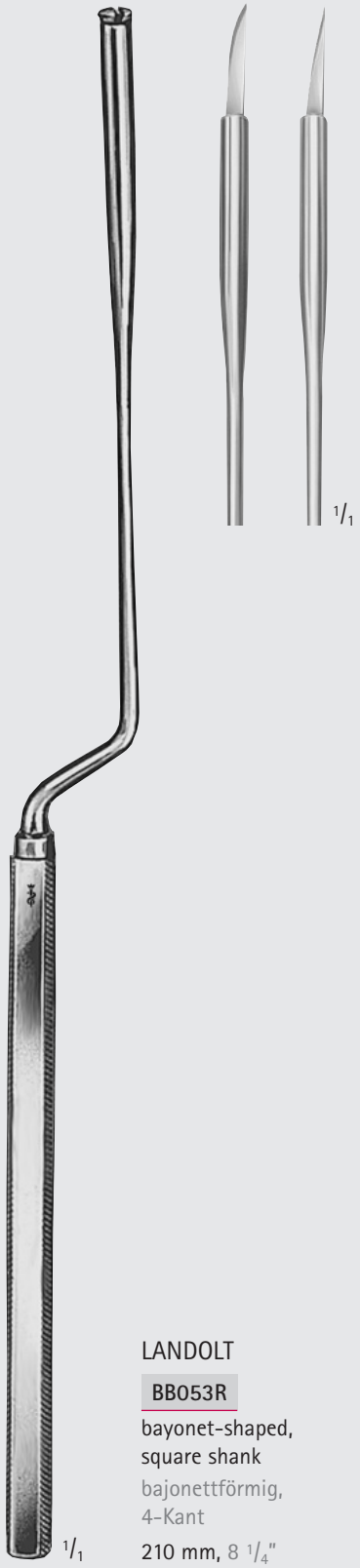
LANDOLT

BB057R

bayonet-shaped, round

bajonettförmig, rund

250 mm, 10"



LANDOLT

BB053R

bayonet-shaped, square shank

bajonettförmig, 4-Kant

210 mm, 8 1/4"

stainless steel

sterile steril



1/1

YASARGIL

BB331R

Arachnoid blade, diam. 1.5 mm
Sales unit:
PAK = Package of 10 pieces

Tellermesser, Ø 1,5 mm
Bestelleinheit
PAK = Packung à 10 Stück



1/1

YASARGIL

BB332R

Arachnoid blade, diam. 2.5 mm
Sales unit:
PAK = Package of 10 pieces

Tellermesser, Ø 2,5 mm
Bestelleinheit
PAK = Packung à 10 Stück



1/1

BB361R

PAK =
Package of 10 pieces
Packung à 10 Stück



1/1

BB362R

PAK =
Package of 10 pieces
Packung à 10 Stück



1/1

BB363R

ST =
Package of 1 piece
Packung à 1 Stück



1/1

BB364R

PAK =
Package of 10 pieces
Packung à 10 Stück



1/1

BB365R

PAK =
Package of 10 pieces
Packung à 10 Stück



1/1

BB366R

ST =
Package of 1 piece
Packung à 1 Stück



1/1

BB367R

PAK =
Package of 10 pieces
Packung à 10 Stück



1/1

BB368R

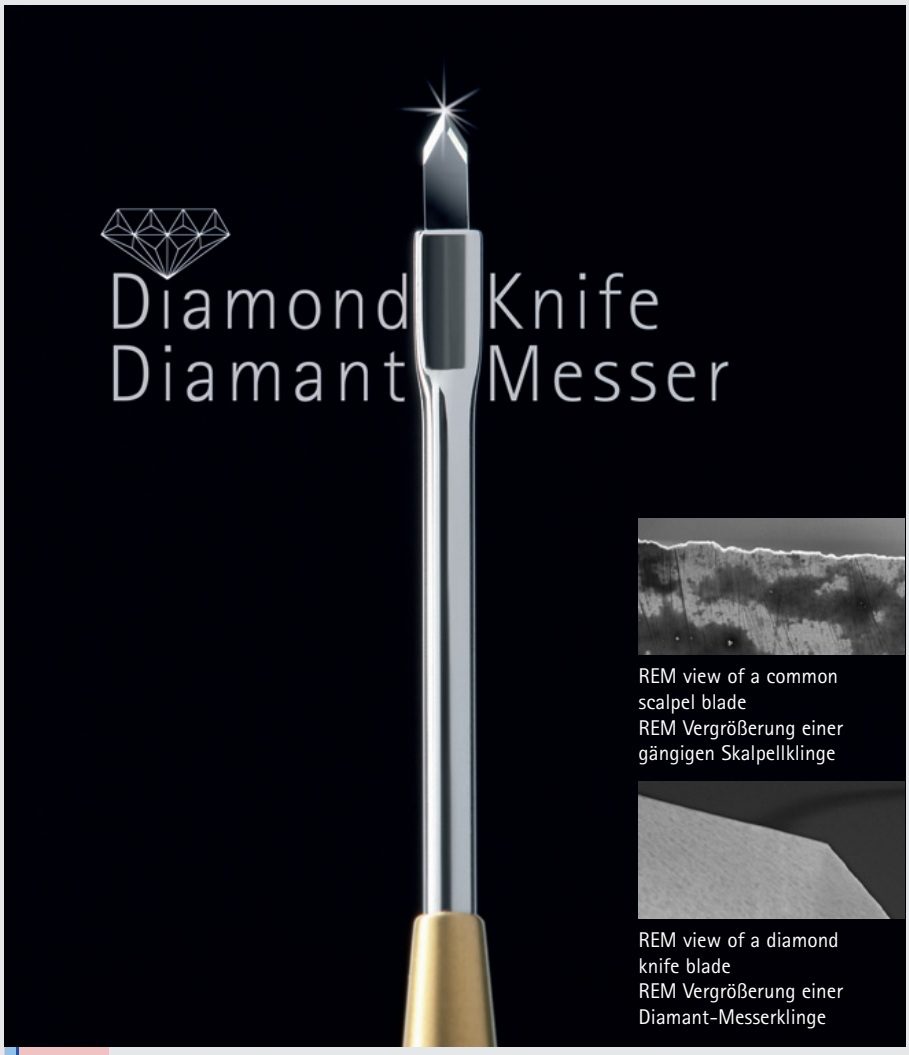
PAK =
Package of 10 pieces
Packung à 10 Stück



1/1

BB369R

ST =
Package of 1 piece
Packung à 1 Stück



REM view of a common scalpel blade
REM Vergrößerung einer gängigen Skalpellklinge

REM view of a diamond knife blade
REM Vergrößerung einer Diamant-Messerklinge

- Blade made of natural diamond
  Klinge aus Naturdiamant
- Superior mechanical stability and elasticity of the blade
  Hohe mechanische Stabilität und Elastizität der Klinge
- Sustained sharpness
  Lang anhaltende Schärfe
- Excellently clean, precise and force-free incisions
  Hochgradig saubere, präzise und kraftlose Schnitte
- Protection mechanism for safe storage of the blade inside the handle
  Schutzmechanismus zur sicheren Lagerung der Schneideklinge im Griff
- Color coded TITANIUM handles
  Kodierung durch farbige TITANIUM-Handgriffe
- Four different cutting geometries:
  - round, retrograde, wedge or lancet blade

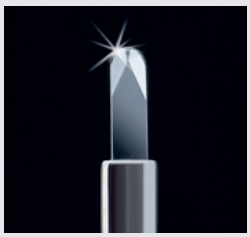
  Vier verschiedene Schneidegeometrien:
  - Rund-, Retrograd-, Keil-, und Lanzettenklinge

Diamond knives

- Due to the properties of their unique blade material, diamond knives offer excellent cutting characteristics for highly clean, precise and force-free incisions especially in cardiovascular and thoracic surgery.

Diamantmesser

- Diamantmesser haben aufgrund ihrer Materialeigenschaften hervorragende Schneideeigenschaften, welche sich insbesondere im Einsatz in der Herz-, Thorax- und Gefäßchirurgie durch hochgradig saubere, präzise und kraftlose Schnitte auszeichnen.





FD113D
Round blade,
gold-colored, 7 facets
Rund-Klinge,
Gold, 7 Facetten
205 mm, 8"

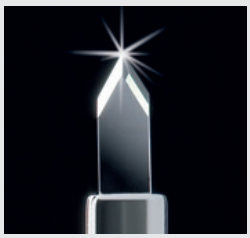
1/1





FD115D 45°
Wedge blade,
black
Keil-Klinge,
Schwarz
205 mm, 8"

1/1





FD116D 60°
Lancet blade,
bronze-colored
Lanzetten-Klinge,
Bronze
205 mm, 8"

1/1



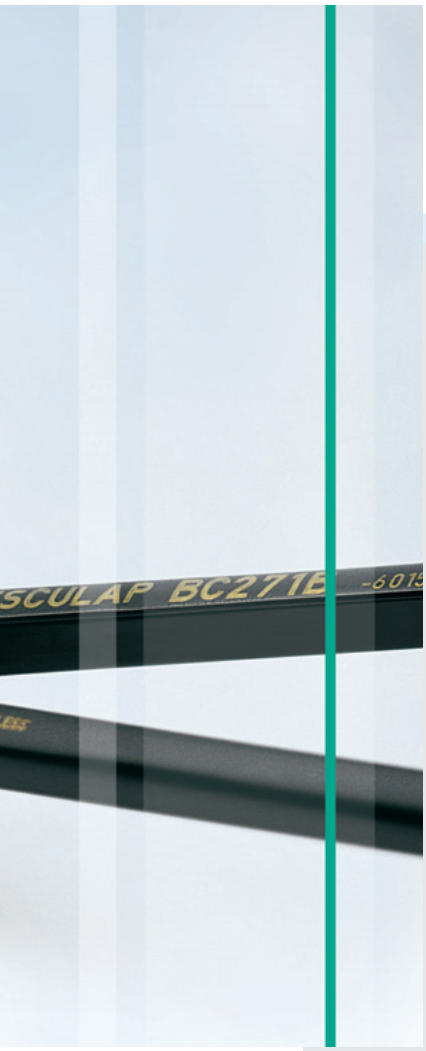
The special qualities of the Noir® dissecting scissors allow dissection that is finer than ever before. NOIR®. Gentle dissection with minimum use of force.

- Soft but sharp.
- Power with minimum force.
- Pure performance.

Die speziellen Eigenschaften der Noir® Präparierscheren ermöglichen ein Präparieren noch feiner und sicherer als je zuvor.
NOIR®. Schonendes Präparieren mit minimalem Kraftaufwand.

- Sanfte Schärfe.
- Stärke die kaum Kraft braucht.
- Wirkung pur.

AESCULAP Noir®



For further details see brochure No. **C09211.**

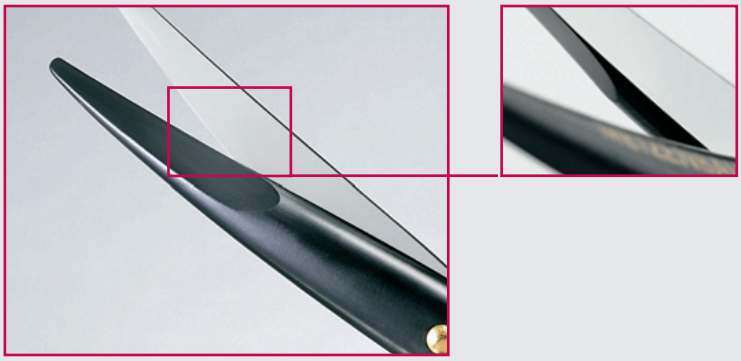
Weitere Informationen finden Sie in unserem Prospekt **C09211.**

Noir®

The combination of the renowned Aesculap tungsten carbide technology with the Aesculap NOIR® coating results in an extremely high surface hardness and therefore high wear resistance in daily hospital use.

Noir®

Die Verbindung der bewährten Aesculap Hartmetall Technologie mit der Aesculap Noir® Beschichtung führt zu einer extrem hohen Oberflächenhärte. NOIR®. Die Präparierscheren mit der hohen Verschleißbeständigkeit im täglichen Klinikeinsatz.



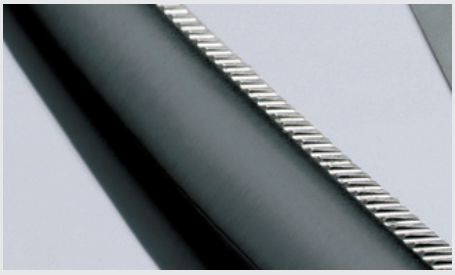
Microtome edge - the extremely sharp cutting edge of the scissors blade facilitates gentle cutting of tissue with minimal use of force.

Mikrotomschliff - besonders scharfer Anschliff des Scherenblattes für sanftes Durchtrennen des Gewebes bei minimalem Kraftaufwand.



Wavecut prevents tissue from slipping out during the cutting process.

Wellenschliff verhindert das Herausgleiten des Gewebes während des Schneidens.



Wavecut prevents tissue from slipping out during the cutting process
Wellenschliff verhindert das Herausgleiten des Gewebes während des Schneidens

»grazil«
very delicate design
besonders schlankes Design



BC210B
straight
gerade

BC211B
curved
gebogen

BC211WB
W
curved
gebogen

BC210B–BC211WB
110 mm, 4 3/8"



BC257B
curved
gebogen

BC257WB
W
curved
gebogen

BC257B–BC257WB
115 mm, 4 1/2"



BC259B
curved
gebogen

BC259WB
W
curved
gebogen

BABY-METZENBAUM

BC259B–BC259WB
145 mm, 5 3/4"



1/1

BC261B
curved
gebogen

BC261WB
curved
gebogen

1/2

METZENBAUM
BC261B–BC261WB
145 mm, 5 3/4"



1/1

BC263B
curved
gebogen

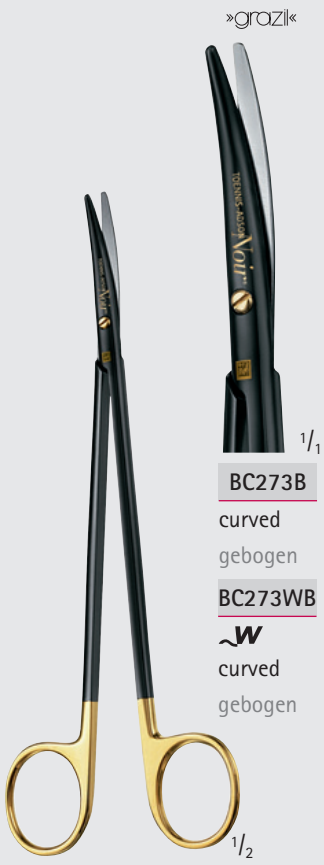
BC263WB
curved
gebogen

BC271B
curved
gebogen

BC271WB
curved
gebogen

1/2

METZENBAUM
BC263B–BC271WB
180 mm, 7"



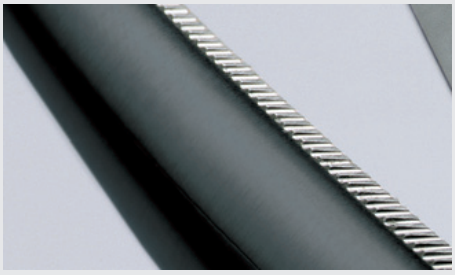
1/1

BC273B
curved
gebogen

BC273WB
curved
gebogen

1/2

TÖNNIS-ADSON
BC273B–BC273WB
175 mm, 7"



Wavecut prevents tissue from slipping out during the cutting process
Wellenschliff verhindert das Herausgleiten des Gewebes während des Schneidens

»grazil«
very delicate design
besonders schlankes Design



BC265B curved gebogen
BC275B curved gebogen
BC265WB curved gebogen
BC275WB curved gebogen

METZENBAUM
BC265B–BC275WB
200 mm, 8"



BC252B straight gerade
BC253B curved gebogen
BC253WB curved gebogen

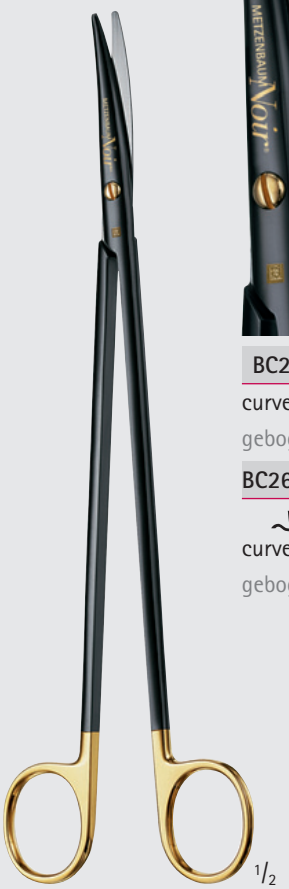
MAYO
BC252B–BC253WB
170 mm, 6 3/4"



MAYO-LEXER
BC284B curved gebogen
BC284WB curved gebogen

LEXER
BC283B curved gebogen
BC283WB curved gebogen

BC284B–BC283WB
165 mm, 6 1/2"





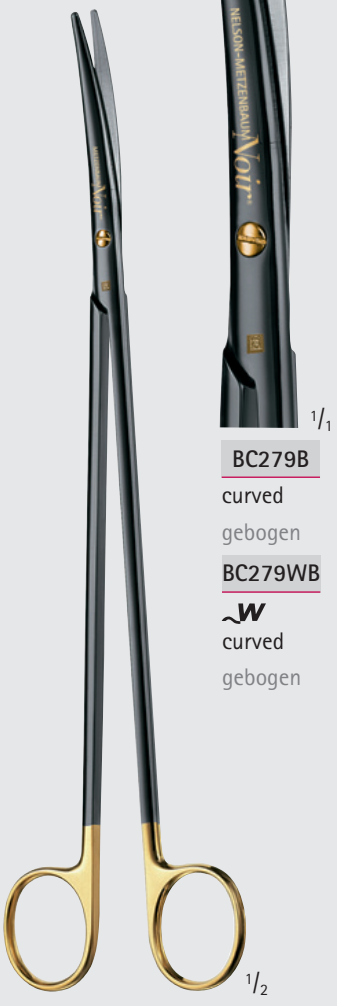
BC267B
curved
gebogen
BC267WB
curved
gebogen

BC277B
curved
gebogen
BC277WB
curved
gebogen

1/1

1/2

METZENBAUM
BC267B–BC277WB
230 mm, 9"



1/1

BC279B
curved
gebogen
BC279WB
curved
gebogen

1/2

NELSON-METZENBAUM
BC279B–BC279WB
260 mm, 10 1/4"



1/1

BC281B
curved
gebogen
BC281WB
curved
gebogen

1/2

NELSON-METZENBAUM
BC281B–BC281WB
280 mm, 11"

DUROTIP® Scissors
with inserted carbide cutting edges
- 3 years guarantee!
- Excellent cutting accuracy
- Long working life
- Gold-plated rings

DUROTIP®-Scheren
mit eingesetzten Hartmetall-Schneiden
- 3 Jahre Garantie!
- Hervorragende Schnitthaltigkeit
- Lange Lebensdauer
- Vergoldete Ringe



BC210R | BC211R

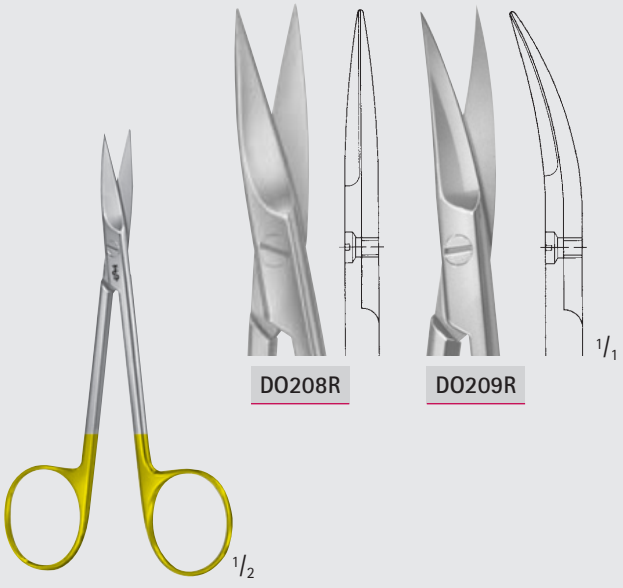
BC210R-BC211R
Ligature scissors
Fadenscheren
110 mm, 4 3/8"



1 blade serrated
1 Schneide gezahnt

GOLDMAN-FOX

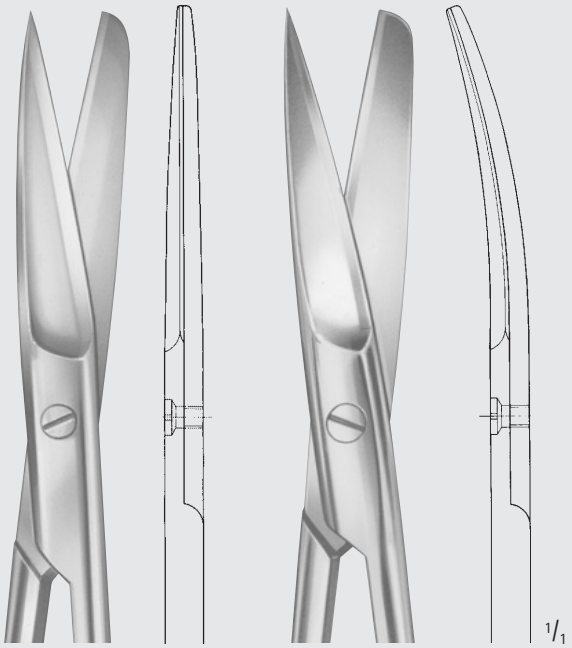
DO250R
130 mm, 5 1/8"



DO208R | DO209R

DO208R-DO209R
120 mm, 4 3/4"



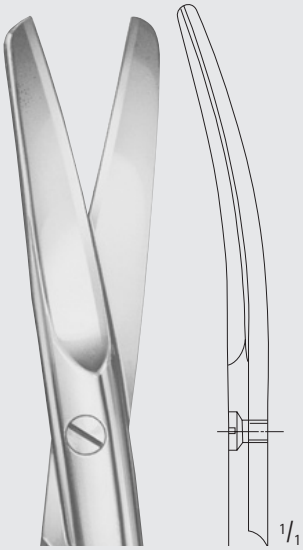


BC224R

BC234R

BC224R–BC234R
145 mm, 5 3/4"





BC231R
145 mm, 5 3/4"



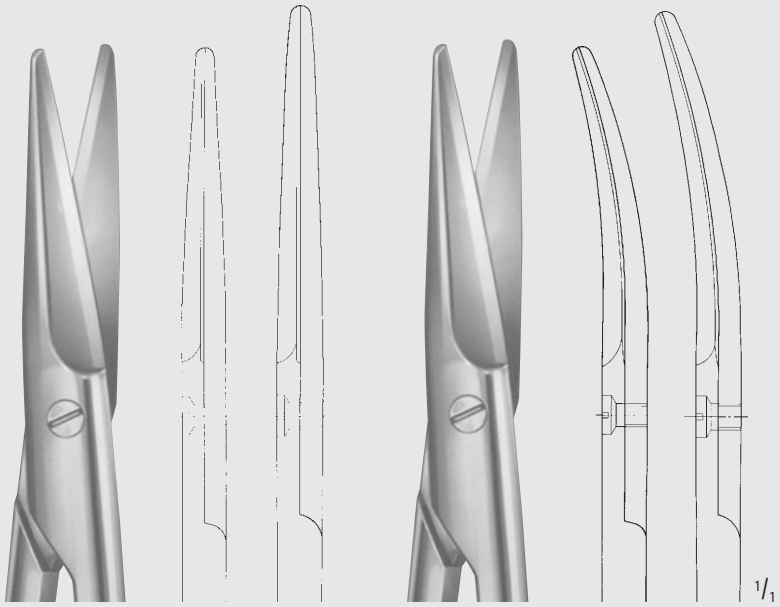


BC228R
145 mm, 5 3/4"



MAYO

BC250R–BC253R



BC250R	BC252R
140 mm	170 mm
5 1/2"	6 3/4"

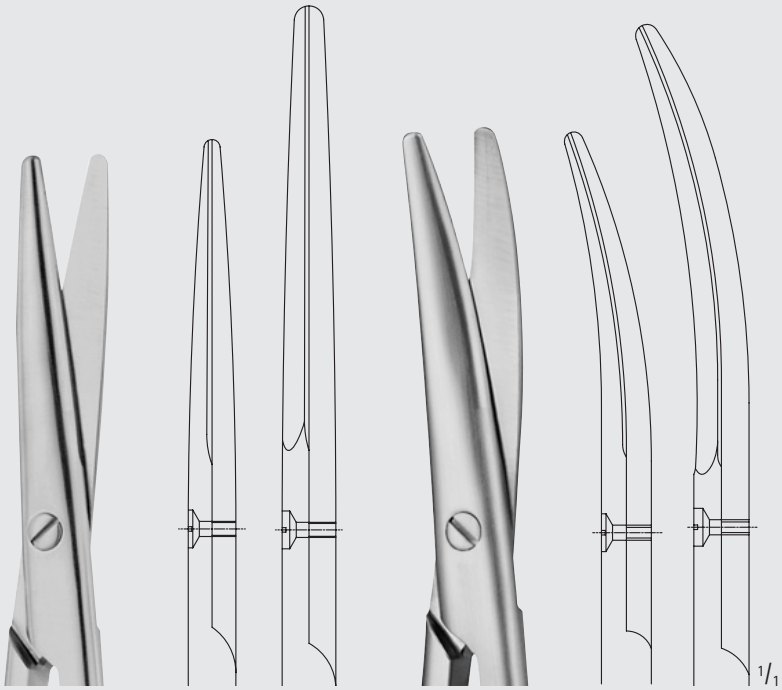
BC251R	BC253R
140 mm	170 mm
5 1/2"	6 3/4"

1/1



MAYO

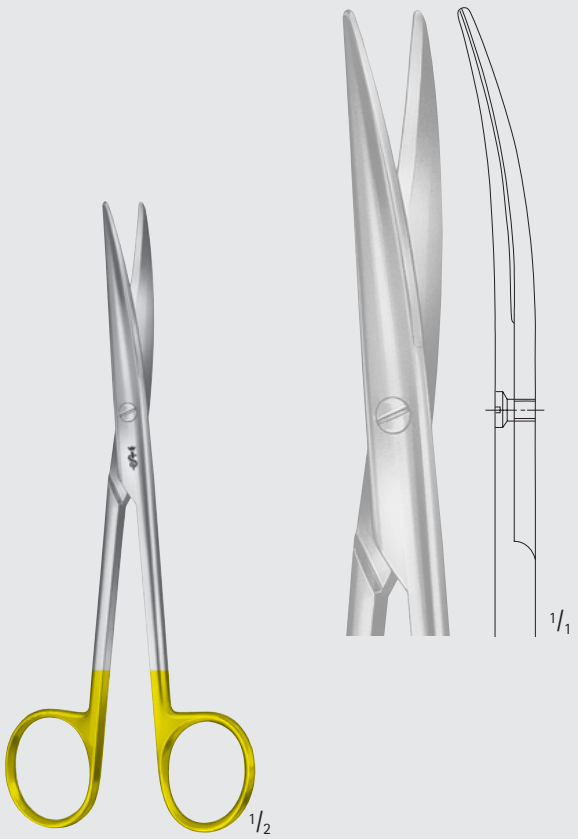
BC242R–BC559R



BC242R	BC558R
170 mm	230 mm
6 3/4"	9"

BC243R	BC559R
170 mm	230 mm
6 3/4"	9"

1/1



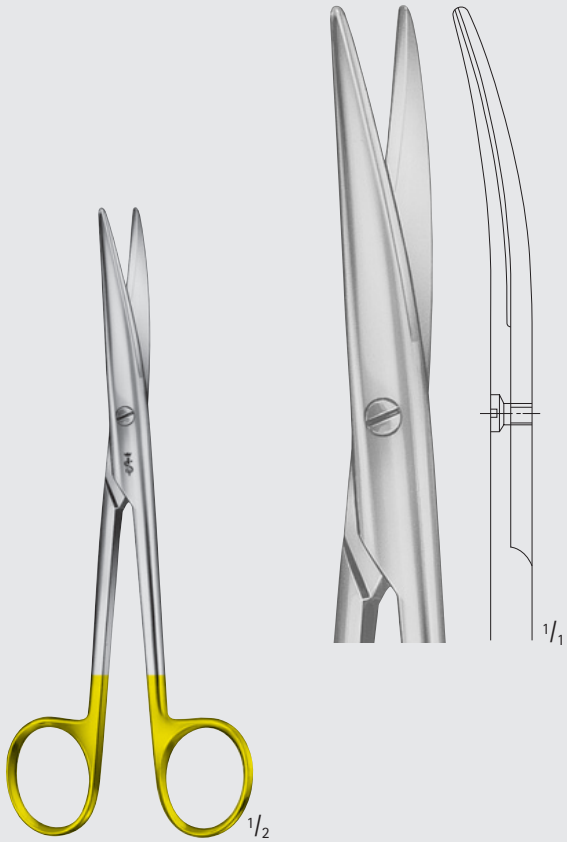
LEXER

BC283R

narrow

schmal

165 mm, 6 1/2"

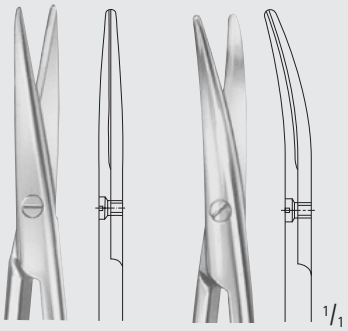


MAYO-LEXER

BC284R

165 mm, 6 1/2"





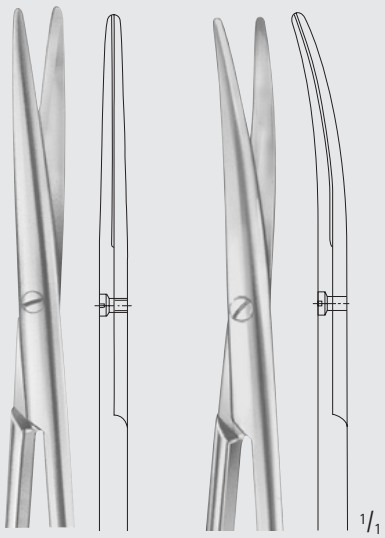
BC256R

BC257R

BC256R–BC257R

115 mm, 4 1/2"





BC258R

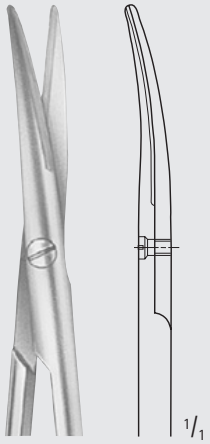
BC259R

BABY-METZENBAUM

BC258R–BC259R

145 mm, 5 3/4"



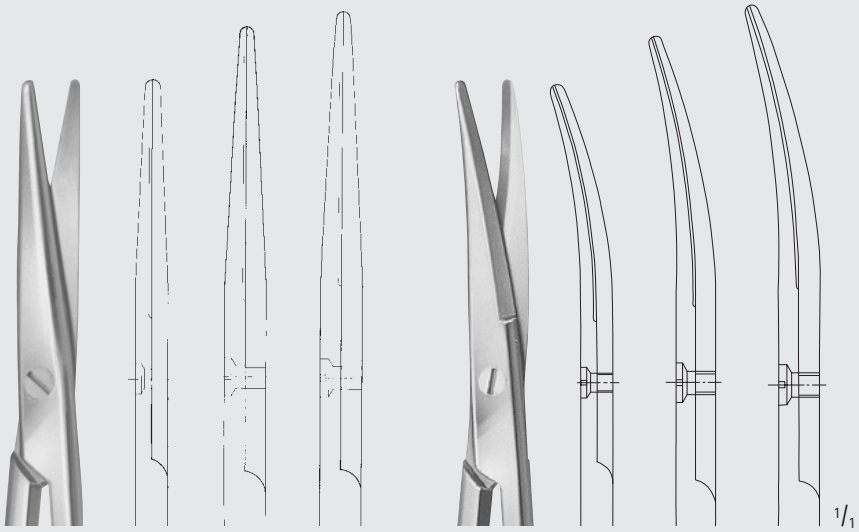


TÖNNIS-ADSON

BC273R

175 mm, 7"





BC270R	BC274R	BC276R
180 mm	200 mm	230 mm
7"	8"	9"

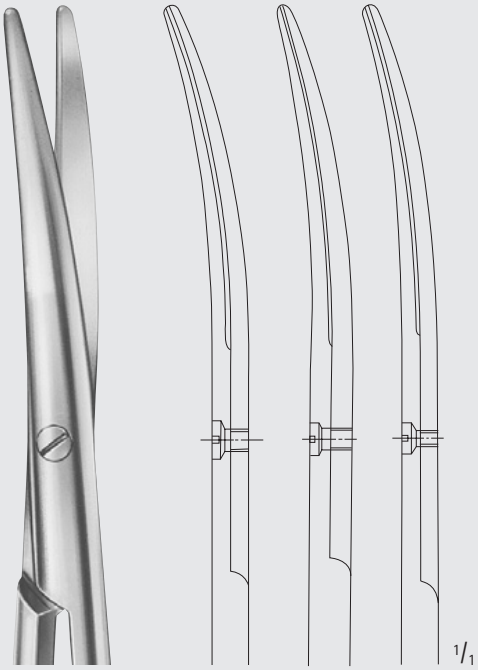
BC271R	BC275R	BC277R
180 mm	200 mm	230 mm
7"	8"	9"

1/1

METZENBAUM

BC270R–BC277R





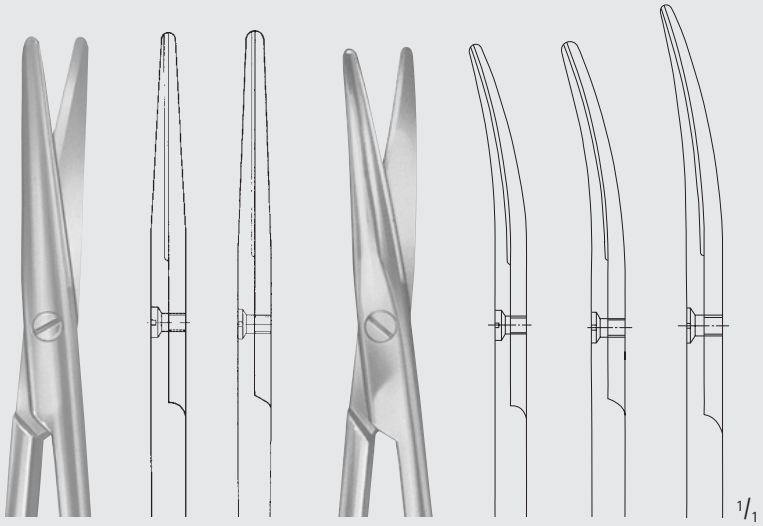
BC279R	BC281R	BC282R
260 mm	280 mm	285 mm
10 1/4"	11"	11 1/4"

1/1

NELSON-METZENBAUM

BC279R–BC282R



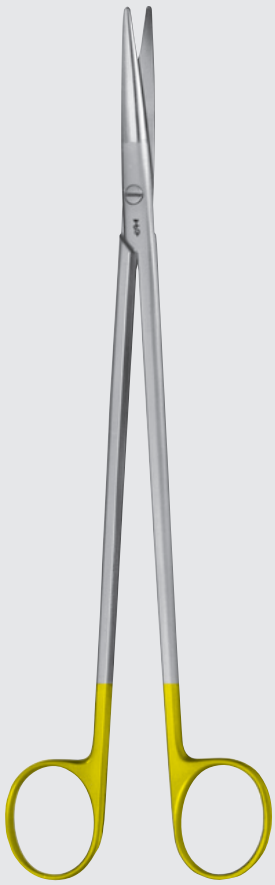


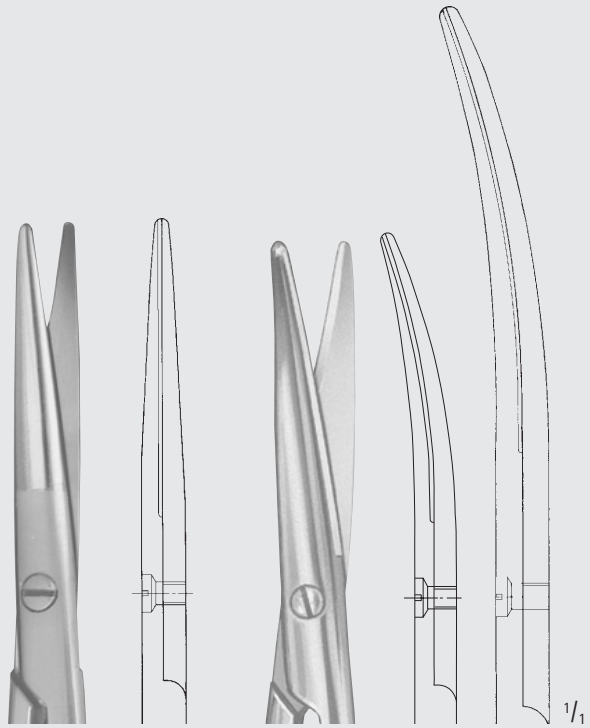
BC260R	BC262R	BC261R	BC263R	BC265R
145 mm	180 mm	145 mm	180 mm	200 mm
5 3/4"	7"	5 3/4"	7"	8"

1/1

METZENBAUM

BC260R–BC265R





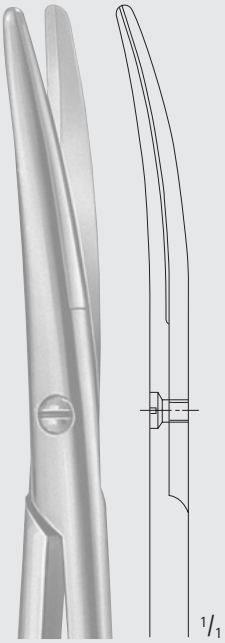
BC266R	BC267R	BC289R
230 mm	230 mm	300 mm
9"	9"	12"

1/1

NELSON-METZENBAUM (MC INDOE)

BC266R–BC289R





1/2

broad blade ends
breite Blattenden

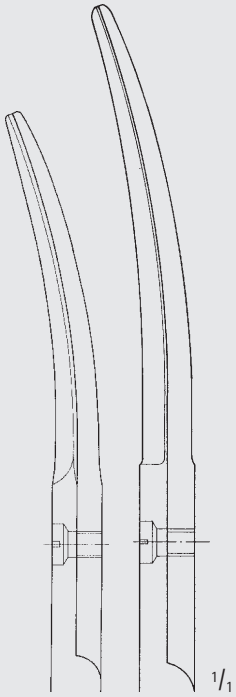
METZENBAUM

BC287R

230 mm, 9"







1/1

BC290R	BC291R
200 mm	230 mm
8"	9"

SIMS

BC290R–BC291R

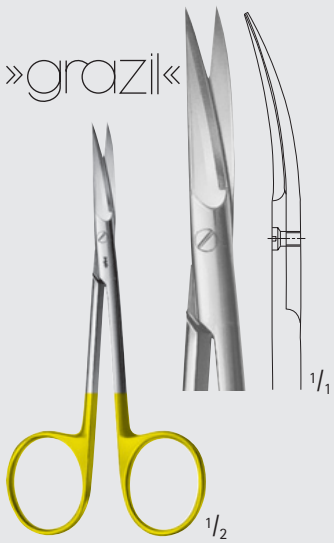
Wavecut
prevents tissue
from slipping out

Wellenschliff
verhindert das Herausgleiten
des Gewebes

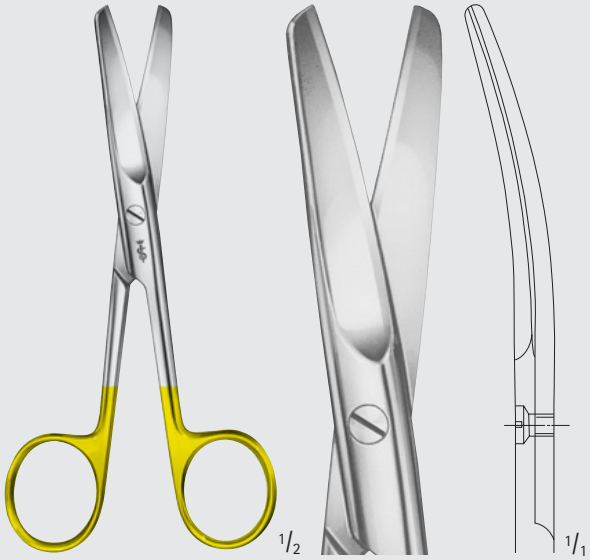


W directly after the catalog number indicates that the resp. item has one serrated cutting edge. (When ordering please indicate together with the catalog number e.g. BC211W)

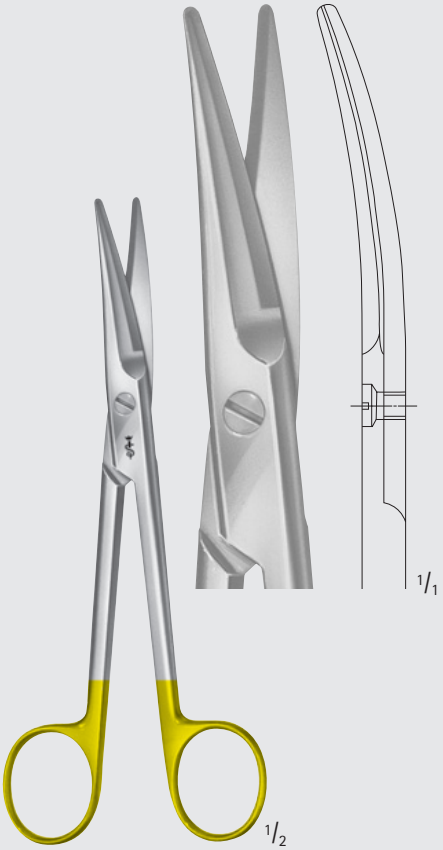
Artikel mit dem Zusatz **W** sind auf einer Schnittfläche mit Wellenschliff versehen (bei Bestellungen bitte angeben - z.B. BC211W)



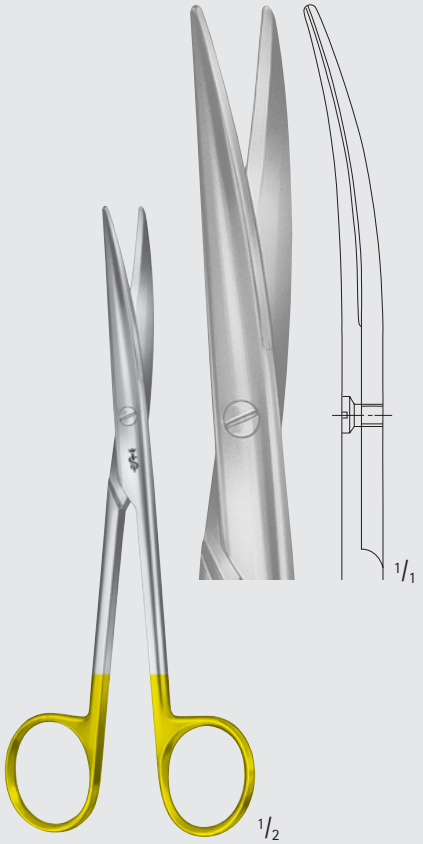
BC211W
Ligature scissors
Fadenschere
110 mm, 4 3/8"



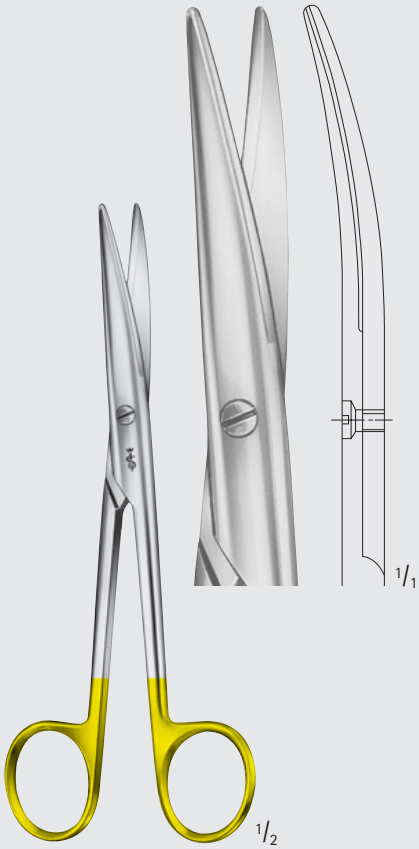
BC231W
Surgical scissors
Chirurgische Schere
145 mm, 5 3/4"



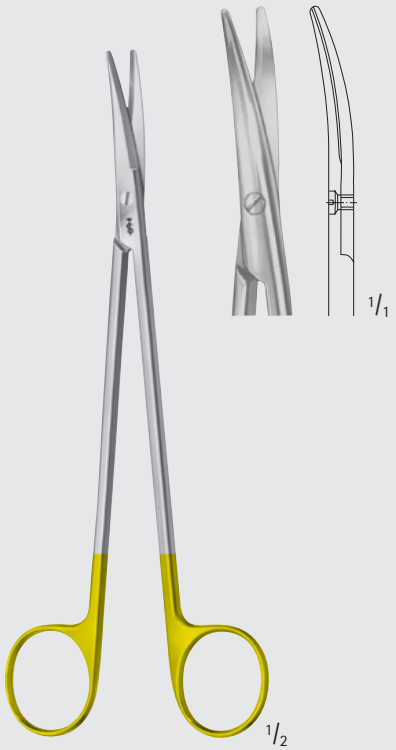
MAYO
BC253W
170 mm, 6 3/4"



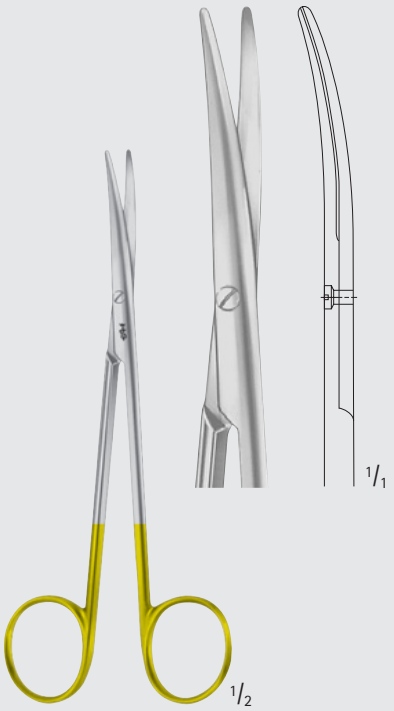
LEXER
BC283W
slender
schmal
165 mm, 6 1/2"



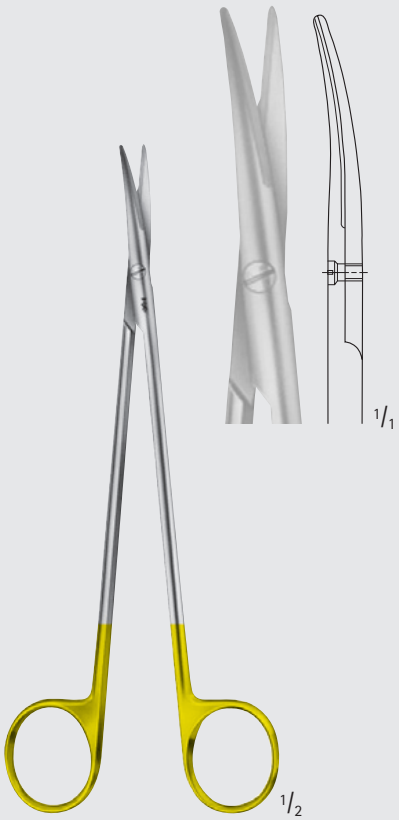
MAYO-LEXER
BC284W
165 mm, 6 1/2"



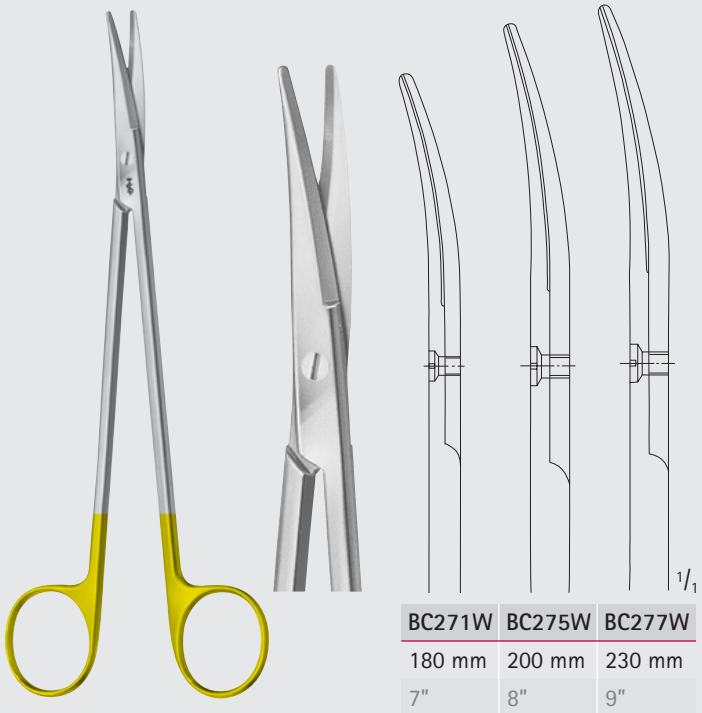
BC257W
115 mm, 4 1/2"



BABY-METZENBAUM
BC259W
145 mm, 5 3/4"

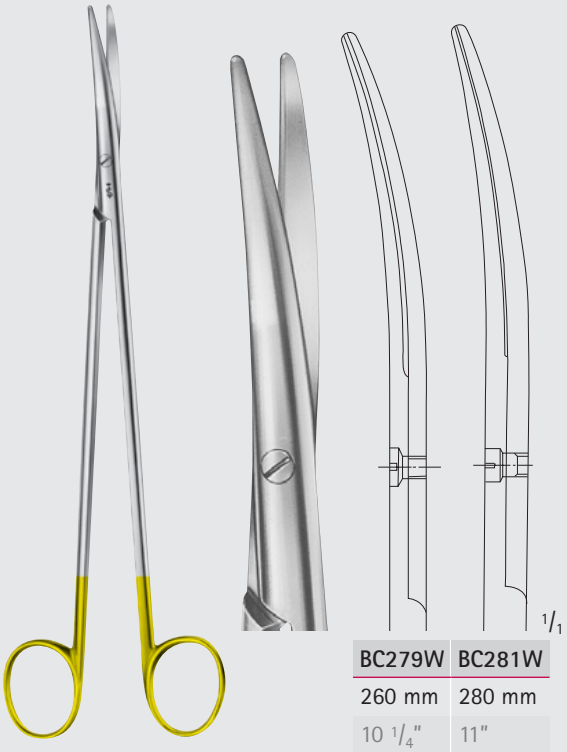


TÖNNIS-ADSON
BC273W
175 mm, 7"



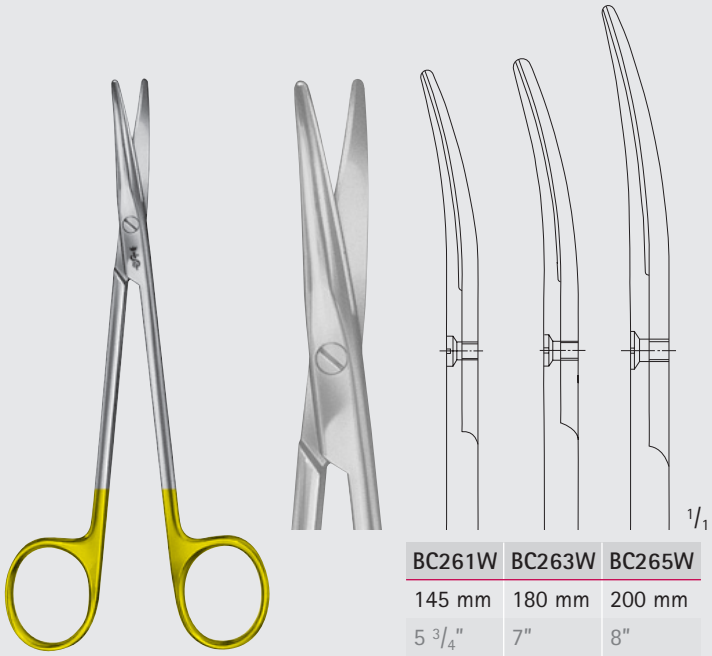
BC271W	BC275W	BC277W
180 mm	200 mm	230 mm
7"	8"	9"

METZENBAUM
BC271W–BC277W



BC279W	BC281W
260 mm	280 mm
10 1/4"	11"

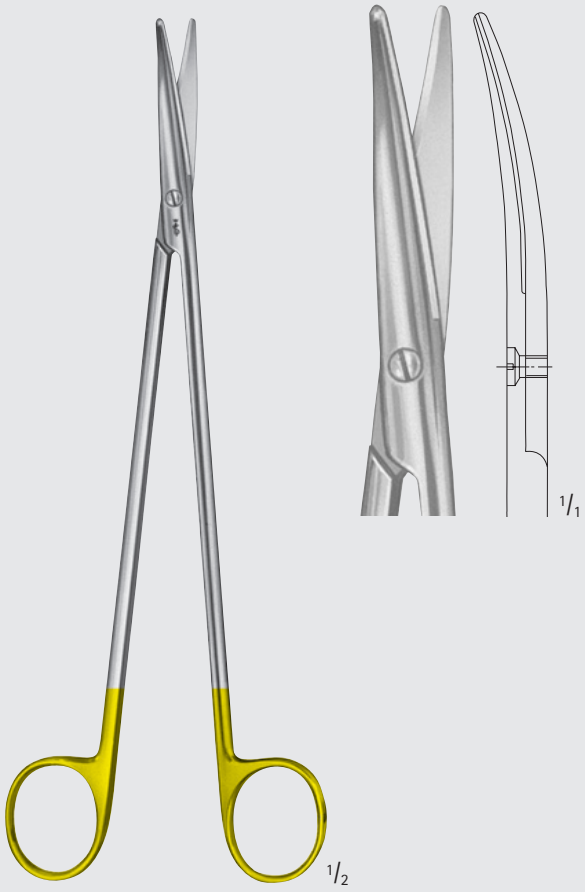
NELSON-METZENBAUM
BC279W–BC281W



BC261W	BC263W	BC265W
145 mm	180 mm	200 mm
5 3/4"	7"	8"

METZENBAUM

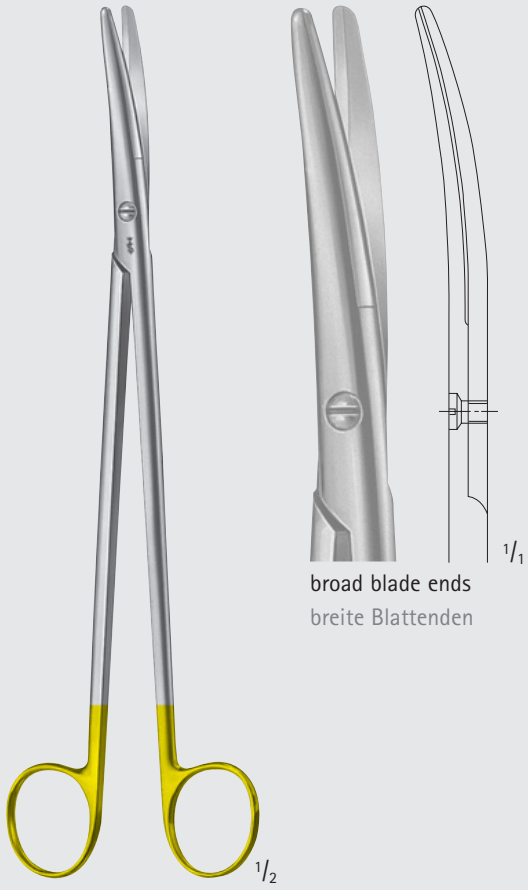
BC261W–BC265W



NELSON-METZENBAUM

BC267W

230 mm, 9"



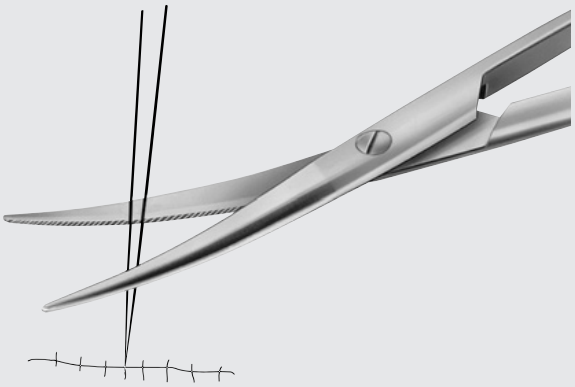
broad blade ends

breite Blattenden

METZENBAUM

BC287W

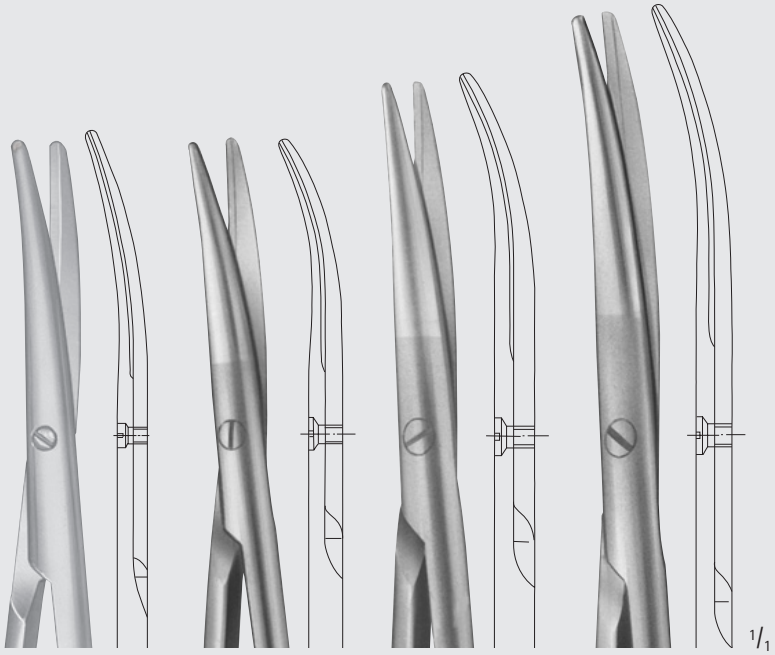
230 mm, 9"



especially for cutting suture materials
- Carbide inserts guarantee permanent sharp cutting edge (also in the distal area of the blades)
- Wavecut prevents suture materials from slipping out
- DUROTIP® ligature scissors are identified by
  - 1 goldplated ring

speziell zum Schneiden von Nahtmaterial
- Hartmetalleinlagen gewähren dauerhafte Schnittschärfe (auch im distalen Bereich der Scherenblätter)
- der Spezial-Wellenschliff verhindert das Abgleiten des Nahtmaterials
- DUROTIP® Ligaturscheren sind gekennzeichnet mit
  - 1 vergoldeten Ring





1/1

BC294W	BC295W	BC296W	BC297W
145 mm	180 mm	230 mm	260 mm
5 3/4"	7"	9"	10 1/4"

BC294W-BC297W



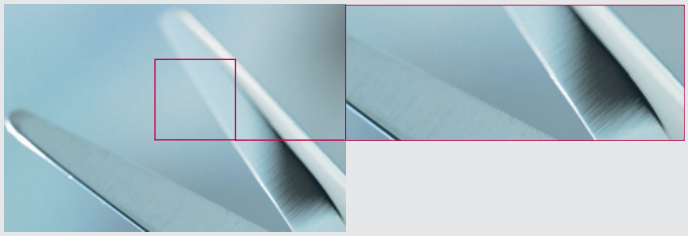
Supercut Scissors
- 1 Cutting blade with sharp Microtome edge
- 1 Cutting blade with Wavecut
  - Identification:
    Black marked rings, shiny instrument surface

Supercut Scheren
- 1 Schneideblatt mit Mikrotomschliff
- 1 Schneideblatt mit Wellenschliff
  - Kennzeichnung:
    Schwarze Ringe, glänzende Oberfläche

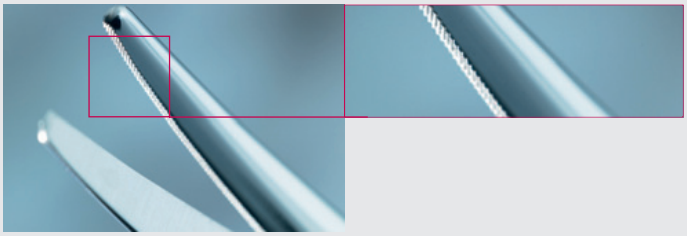


Microtome edge
- the extremely sharp cutting edge of the scissors blade facilitates gentle cutting of tissue with minimal use of force

Mikrotomschliff
- besonders scharfer Anschliff des Scherenblattes für sanftes Durchtrennen des Gewebes bei minimalem Kraftaufwand



- Wavecut
  prevents tissue from slipping out during the cutting process
- Wellenschliff
  verhindert das Herausgleiten des Gewebes während des Schneidens





BC900R BC901R

BC900R-BC901R
110 mm, 4 3/8"



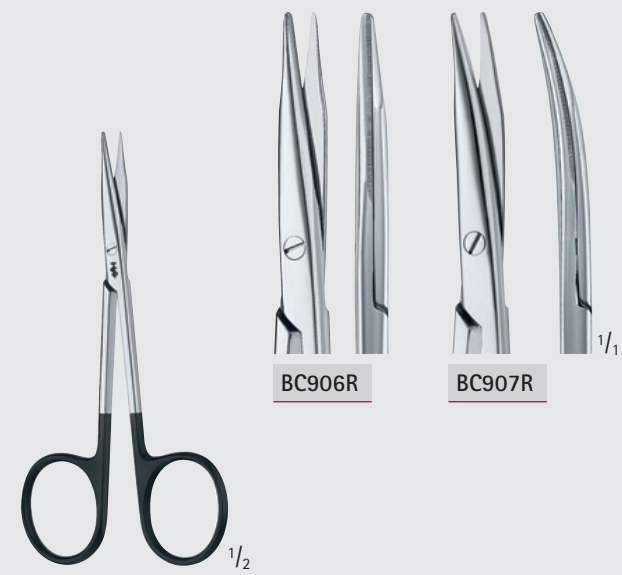
BC903R
125 mm, 5"



STEVENS

BC904R–BC905R

105 mm, 4 1/8"



STEVENS

BC906R–BC907R

110 mm, 4 3/8"



GOLDMAN-FOX

BC909R

130 mm, 5 1/8"



FOMON

BC939R

115 mm, 4 1/2"



JAMESON

BC911R

130 mm, 5 1/8"



JAMESON

BC915R

150 mm, 6"



JAMESON

BC919R

180 mm, 7"





BC916R



BC917R

JOSEPH

BC916R–BC917R

150 mm, 6"

Supercut



1/2



1/1

BC926R

BC927R

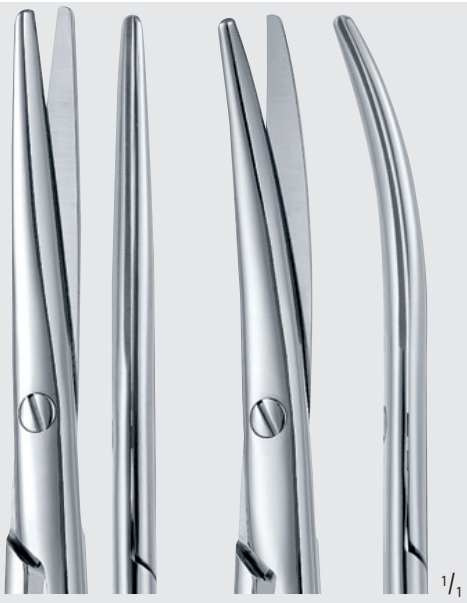
MAYO

BC926R–BC927R

145 mm, 5 3/4"



1/2



1/1

BC924R

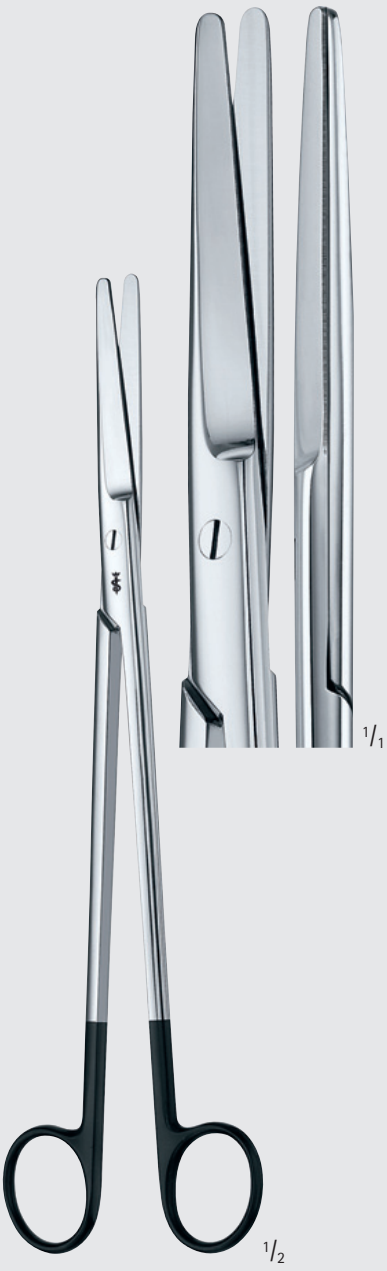
BC925R

MAYO

BC924R–BC925R

165 mm, 6 1/2"

MILLIMETERS



MAYO

BC922R

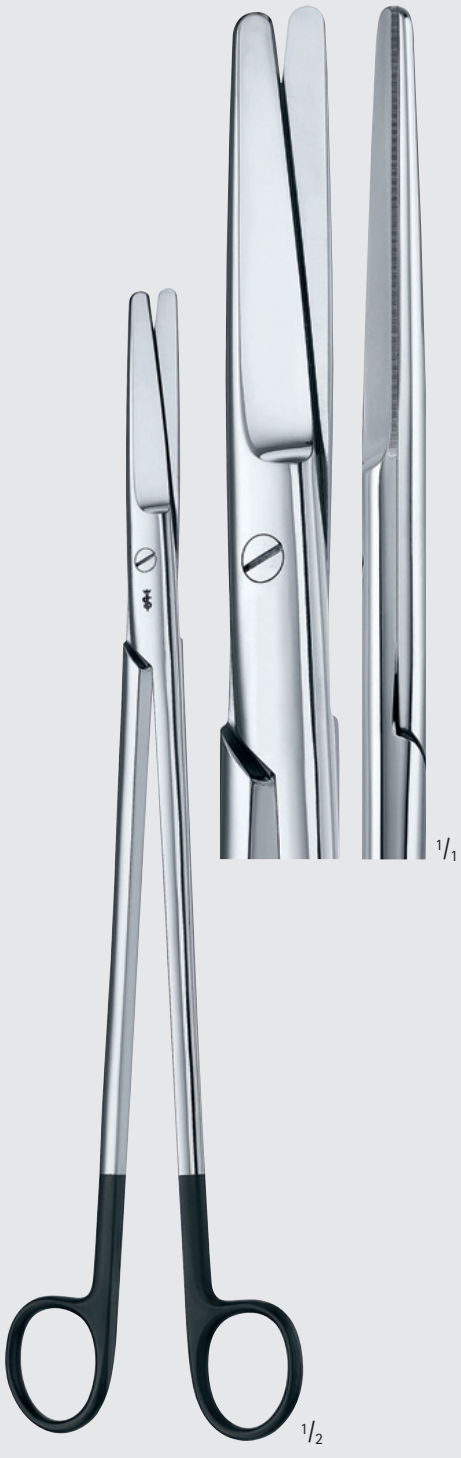
255 mm, 10"



MAYO

BC929R

280 mm, 11"

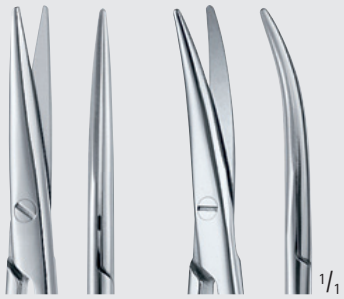


MAYO

BC938R

305 mm, 12"





BC930R BC931R

BABY-METZENBAUM

BC930R–BC931R

115 mm, 4 1/2"





BC934R BC935R

METZENBAUM

BC934R–BC935R

145 mm, 5 3/4"



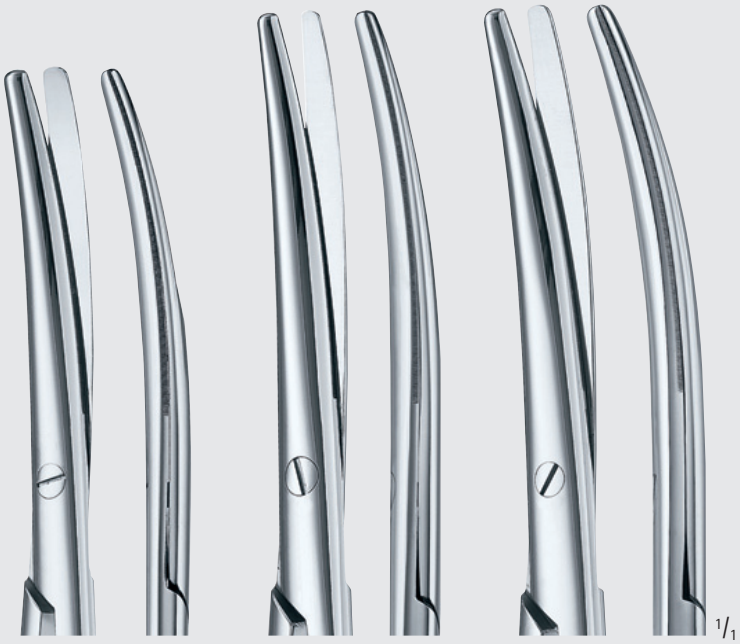


BC936R BC937R

METZENBAUM

BC936R–BC937R

180 mm, 7"



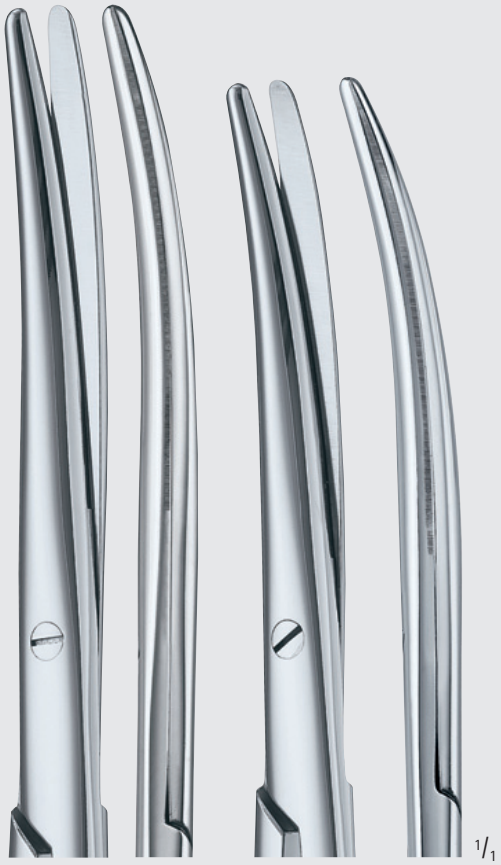
1/1

BC945R
230 mm 9"

BC947R
260 mm 10 1/4"

BC949R
285 mm 11 1/4"





1/1

BC951R
300 mm 12"

BC953R
355 mm 14"

METZENBAUM

BC945R-BC953R



POTTS-SMITH

BC957R–BC959R



BC957R

25°

190 mm

7 1/2"



BC958R

45°

185 mm

7 1/4"



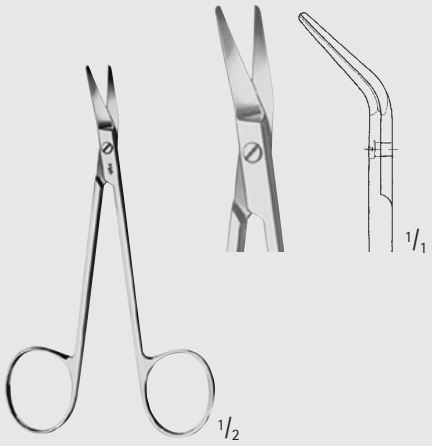
1/1

BC959R

60°

180 mm

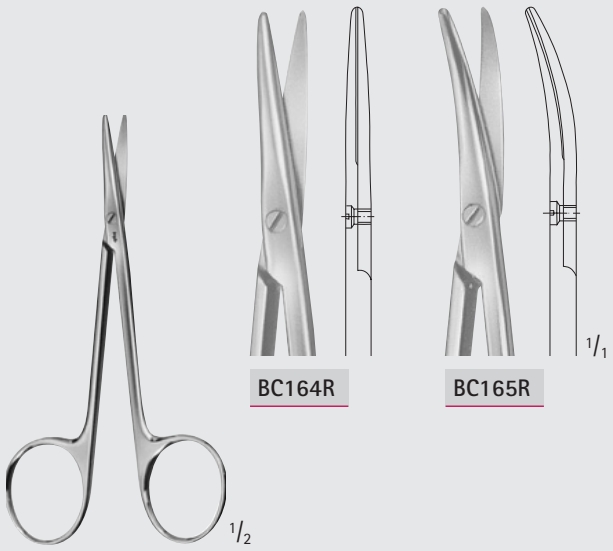
7"



GRAEFE

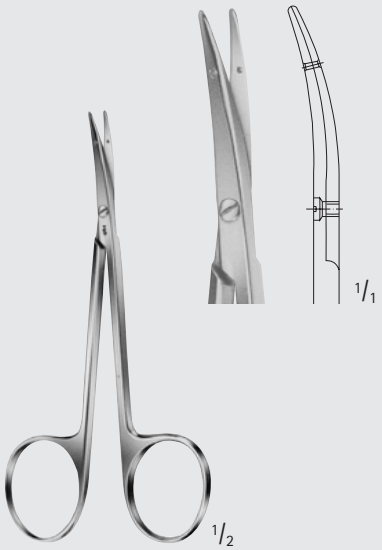
OC415R

100 mm, 4"



BC164R–BC165R

115 mm, 4 1/2"



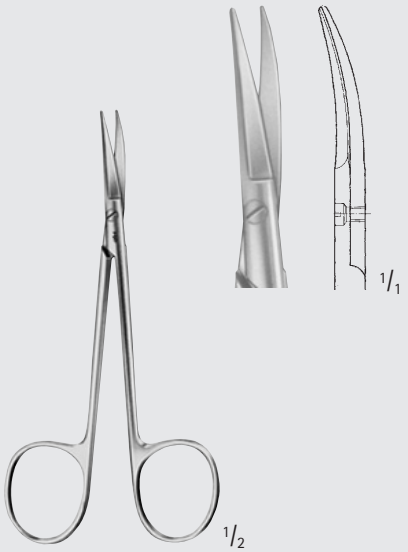
LITTLER

BC163R

tips with eye for suture

mit Fadenbohrung in der Spitze

115 mm, 4 1/2"



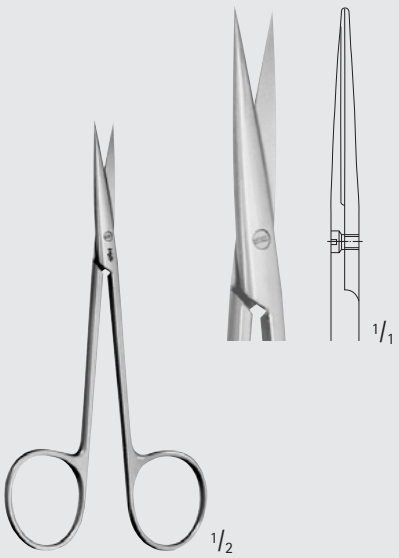
COTTLE

OK374R

Bulldog scissors

Bulldog-Schere

115 mm, 4 1/2"



KILNER

BC162R

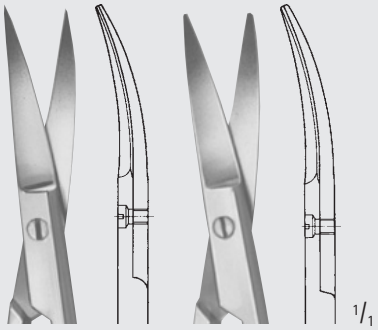
delicate

fein

115 mm, 4 1/2"



1/2



1/1

OK365R
sharp
spitz

OK367R
blunt
stumpf

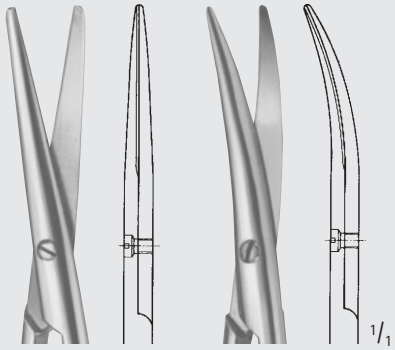
COTTLE-MASING

OK365R–OK367R

105 mm, 4 1/8"



1/2



1/1

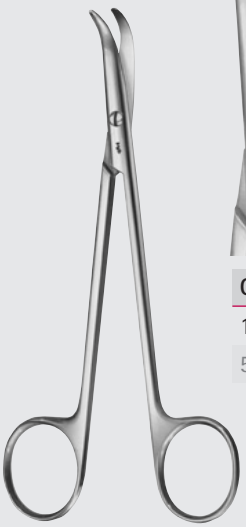
OK368R

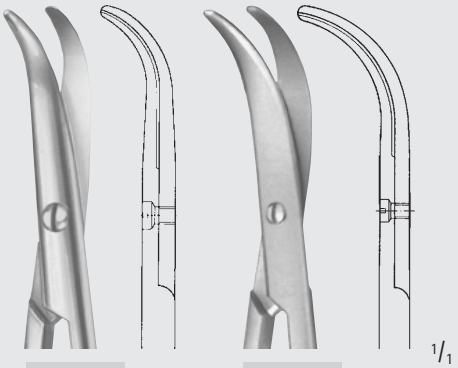
OK369R

COTTLE-KNAPP

OK368R–OK369R

105 mm, 4 1/8"





1/1

OK372R
135 mm
5 1/4"

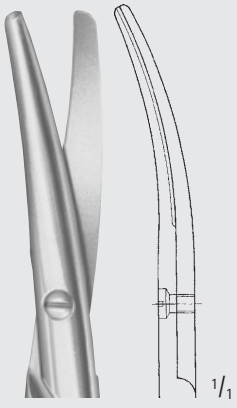
OK373R
115 mm
4 1/2"

FOMON

OK372R–OK373R



1/2



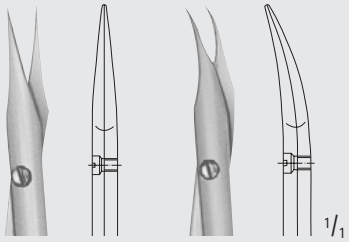
1/1

LANDOLT

OC430R

120 mm, 4 3/4"





BC186R BC187R

STEVENS

BC186R–BC187R

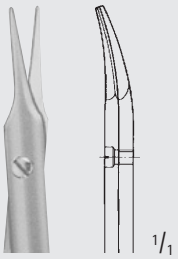
Vascular- and tendon scissors

Gefäß- und Sehnenscheren

100 mm, 4"

»grazil«





STEVENS

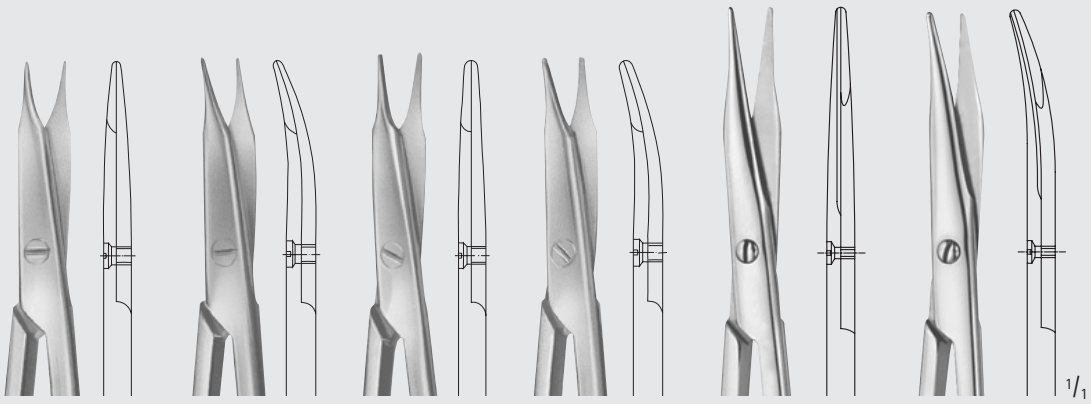
OK366R

delicate dissecting scissors

feine Präparierschere

110 mm, 4 3/8"





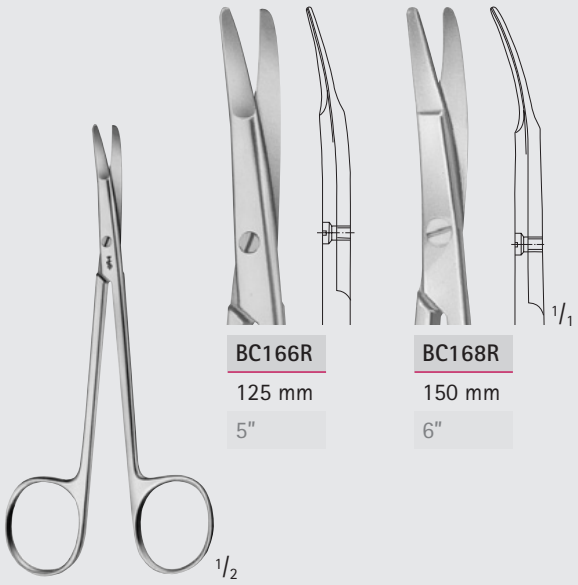
BC170R	BC171R	BC172R	BC173R	BC194R	BC195R
sharp spitz	sharp spitz	blunt stumpf	blunt stumpf	blunt stumpf	blunt stumpf
110 mm 4 3/8"	110 mm 4 3/8"	110 mm 4 3/8"	110 mm 4 3/8"	125 mm 5"	125 mm 5"

STEVENS

BC170R–BC195R

Vascular- and tendon scissors

Gefäß- und Sehnenscheren

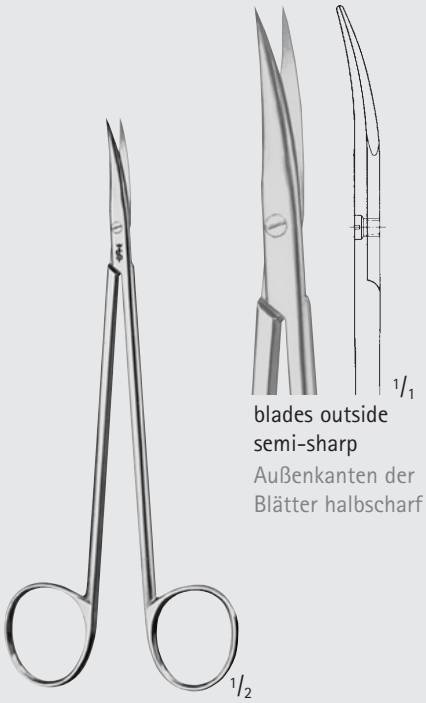


BC166R
125 mm
5″

BC168R
150 mm
6″

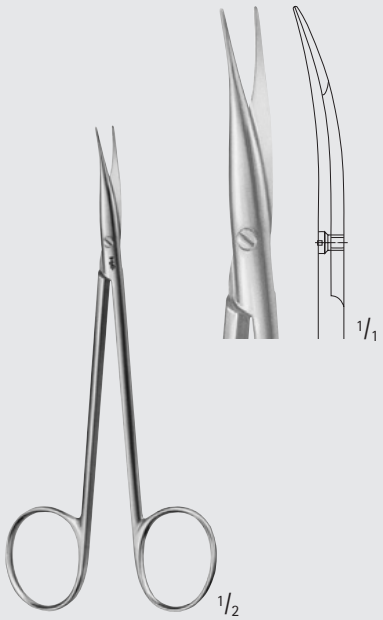
KILNER

BC166R–BC168R
special flat points for dissecting and undermining the skin
besonders flache Spitzen zum Präparieren und Unterminieren der Haut



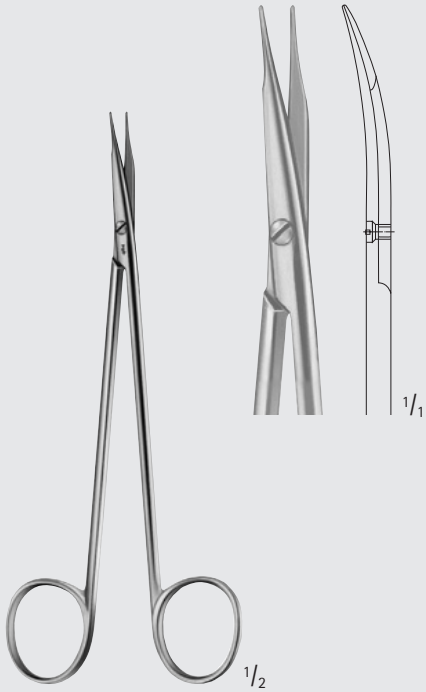
blades outside semi-sharp
Außenkanten der Blätter halbscharf

BC628R
Nerve dissecting scissors
Nerv-Präparierschere
150 mm, 6″



JAMESON-WERBER

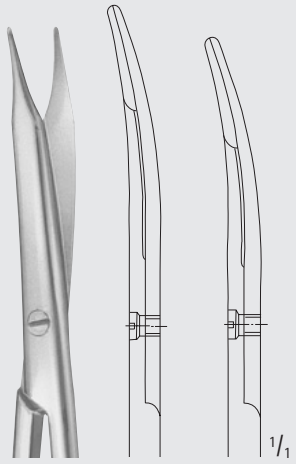
BC175R
130 mm, 5 1/8″



JAMESON

BC177R
150 mm, 6″



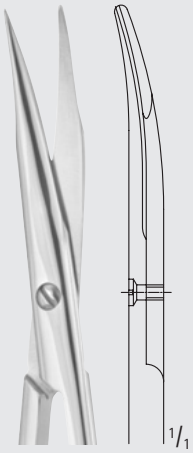


BC180R	BC181R
145 mm	175 mm
5 3/4"	7"

REYNOLDS

BC180R–BC181R



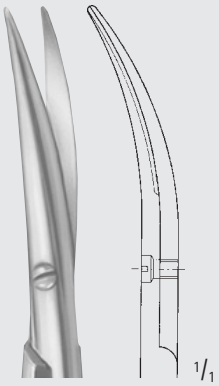


POTTS

BC178R

180 mm, 7"





DE BAKEY

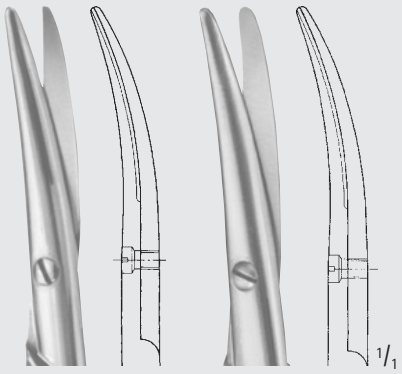
BC629R

Arteriotomy scissors

Arteriotomie-Schere

175 mm, 7"



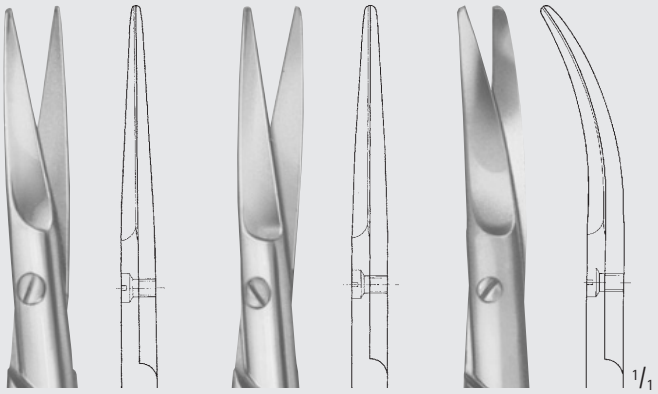


BC630R	BC631R
very delicate	delicate
sehr fein	fein

TÖNNIS-ADSON

BC630R–BC631R

175 mm, 7"



BC633R
very delicate
sehr fein

BC634R
delicate
fein

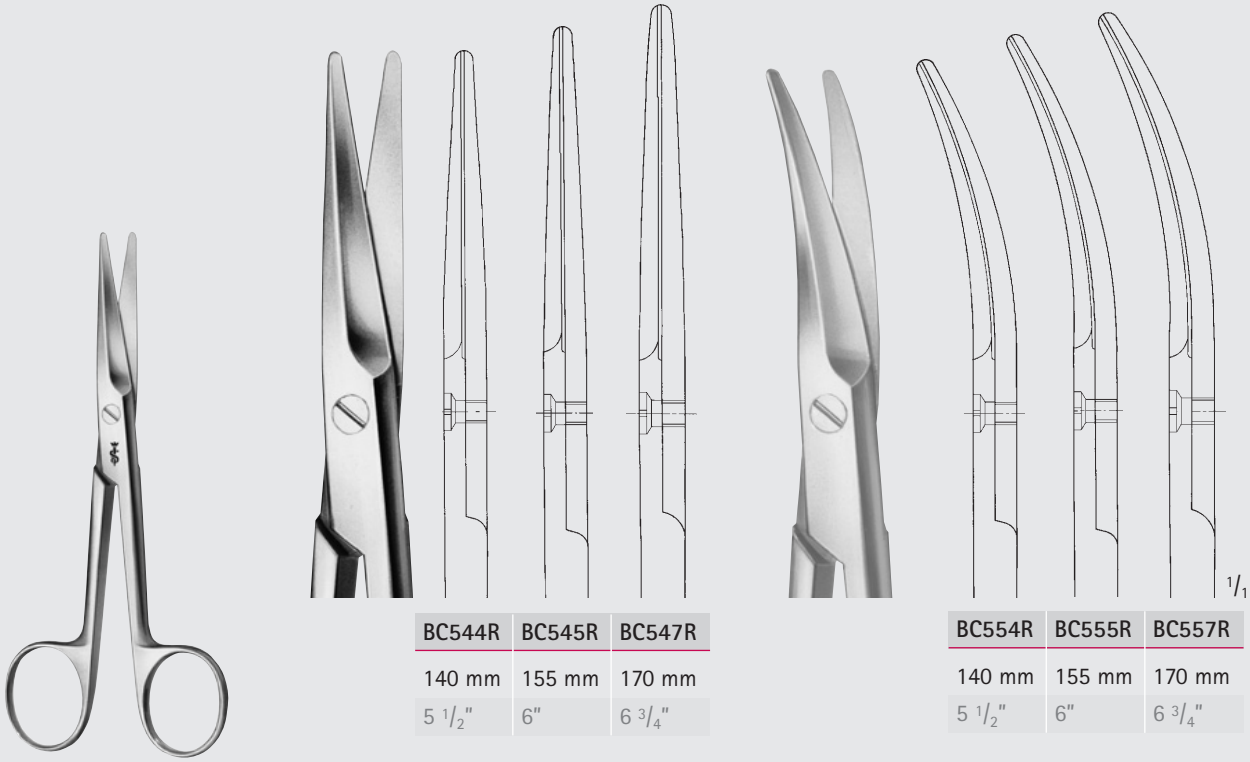
BC635R
delicate
fein



TÖNNIS

BC633R–BC635R

180 mm, 7"



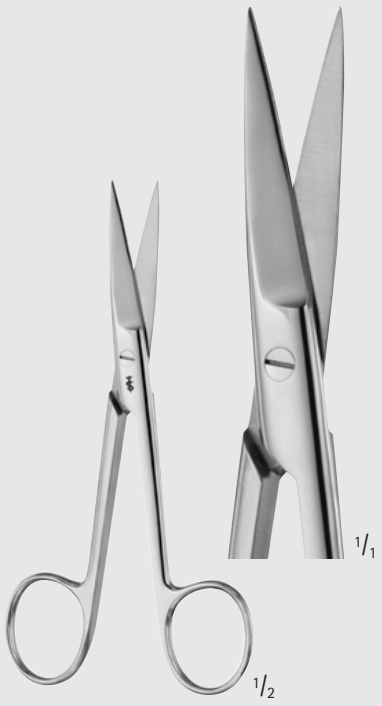
BC544R	BC545R	BC547R
140 mm	155 mm	170 mm
5 1/2"	6"	6 3/4"

BC554R	BC555R	BC557R
140 mm	155 mm	170 mm
5 1/2"	6"	6 3/4"

1/1

MAYO

BC544R–BC557R



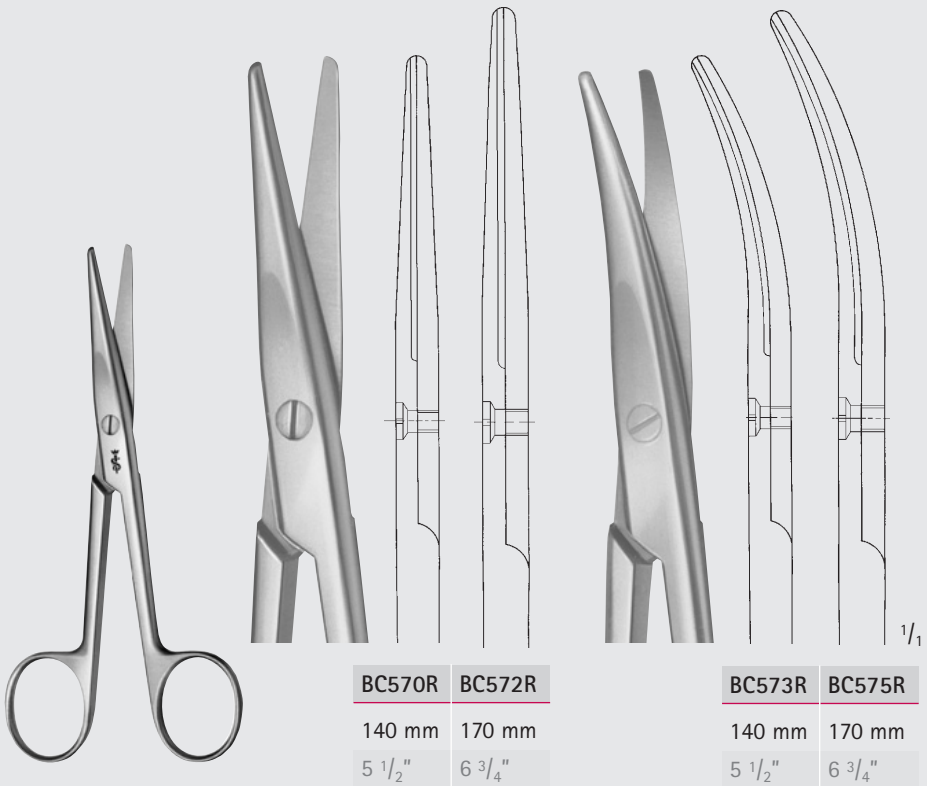
1/1

1/2

MAYO

BC466R

140 mm, 5 1/2"



BC570R	BC572R
140 mm	170 mm
5 1/2"	6 3/4"

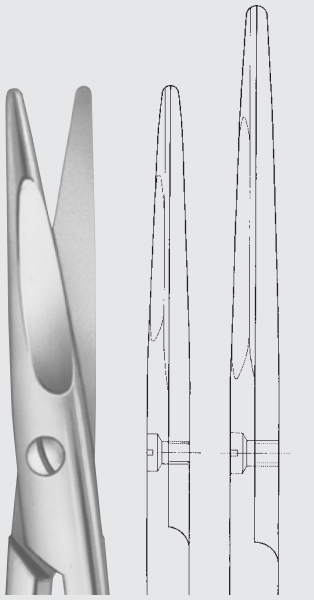
BC573R	BC575R
140 mm	170 mm
5 1/2"	6 3/4"

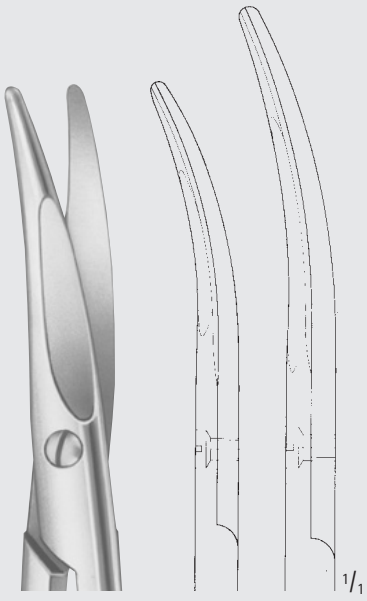
1/1

MAYO-STILLE

BC570R–BC575R







BC576R	BC578R
140 mm	170 mm
5 1/2"	6 3/4"

BC577R	BC579R
140 mm	170 mm
5 1/2"	6 3/4"

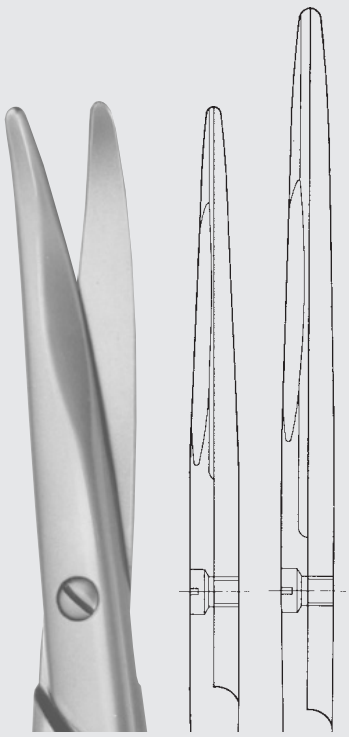
MAYO-STILLE

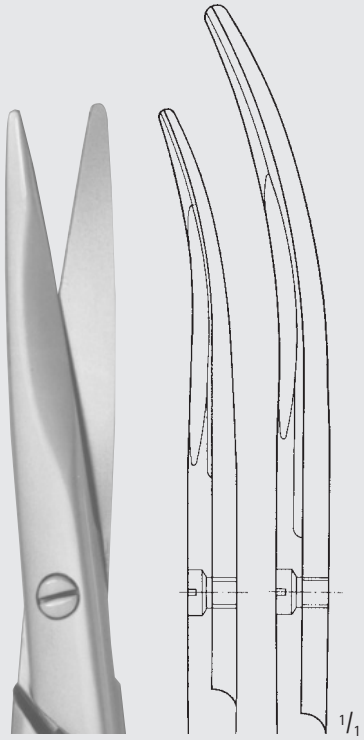
BC576R–BC579R

with chamfered blades

mit abgeschrägten Schneiden







BC562R	BC564R
190 mm	215 mm
7 1/2"	8 1/2"

BC563R	BC565R
190 mm	215 mm
7 1/2"	8 1/2"

MAYO

BC562R–BC565R

with chamfered blades

mit abgeschrägten Schneiden



1/2

MAYO-HARRINGTON

BC560R-BC561R

230 mm, 9"



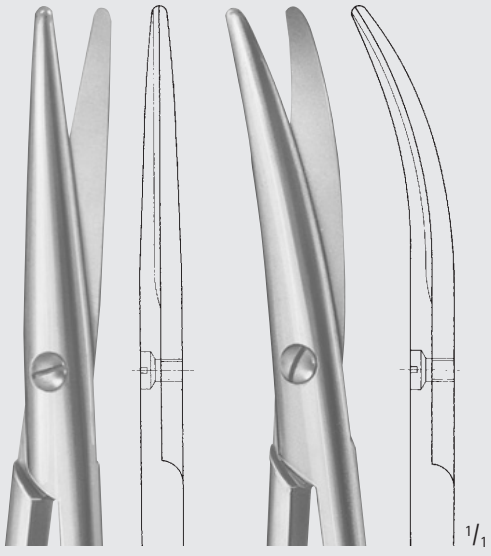
BC560R



1/1

BC561R





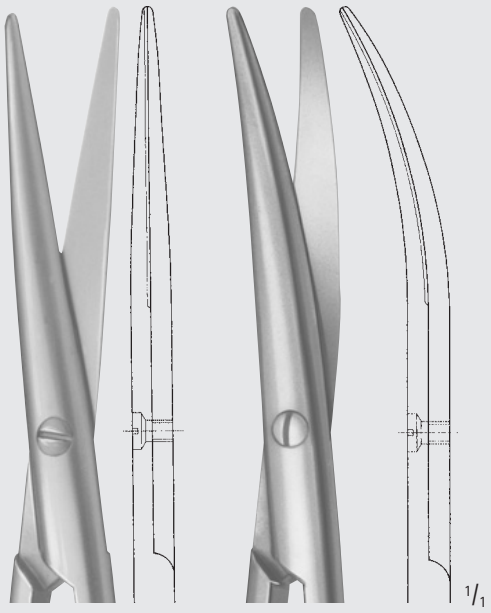
BC580R BC581R

STILLE

BC580R–BC581R

150 mm, 6"





BC590R BC591R

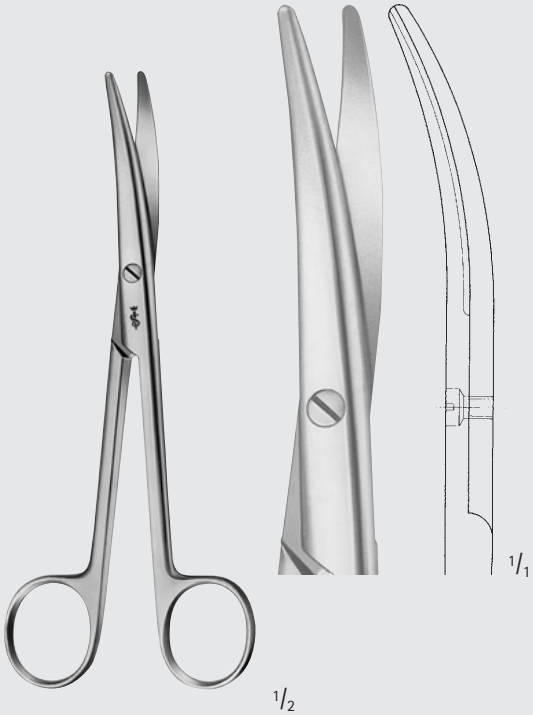
LEXER

BC590R–BC591R

narrow

schmal

165 mm, 6 1/2"



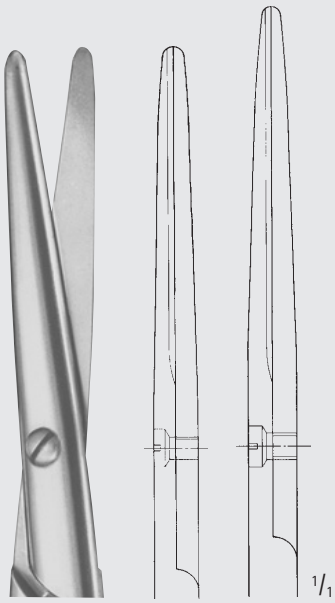
MAYO-LEXER

BC592R

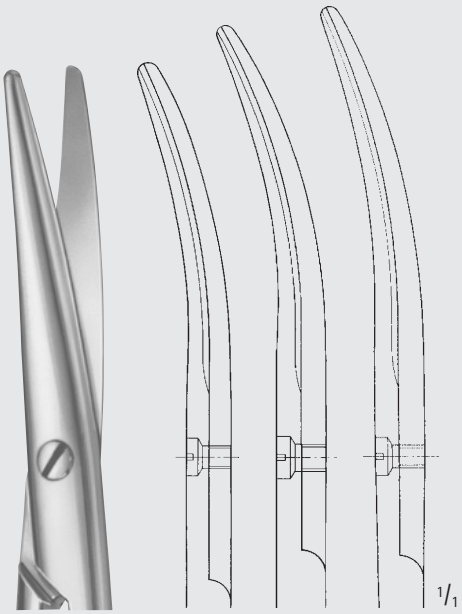
Standard pattern

Standard-Modell

165 mm, 6 1/2"



BC584R	BC585R
165 mm	200 mm
6 1/2"	8"



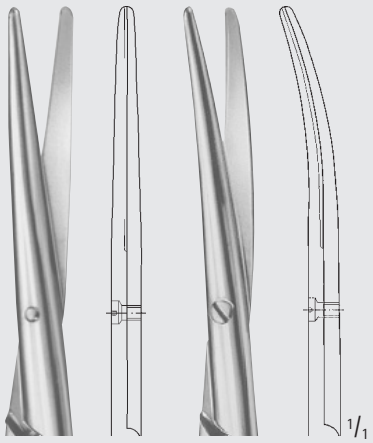
BC587R	BC588R	BC589R
165 mm	200 mm	210 mm
6 1/2"	8"	8 1/4"



MAYO

BC584R–BC589R





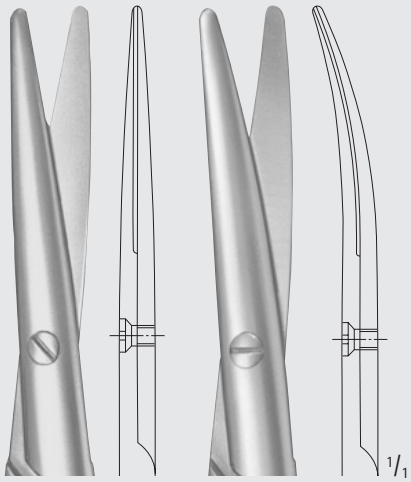
BC600R BC603R

BABY-METZENBAUM

BC600R–BC603R

145 mm, 5 3/4"





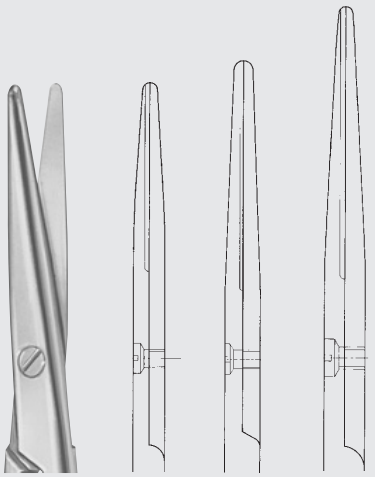
BC680R BC683R

METZENBAUM

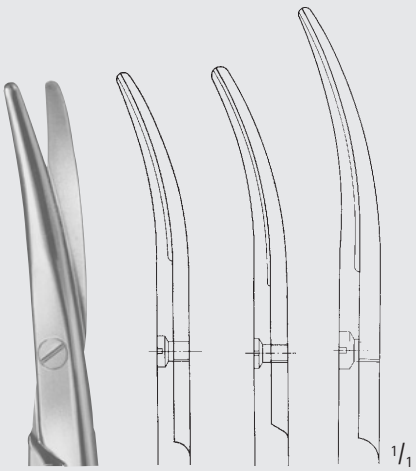
BC680R–BC683R

160 mm, 6 1/4"





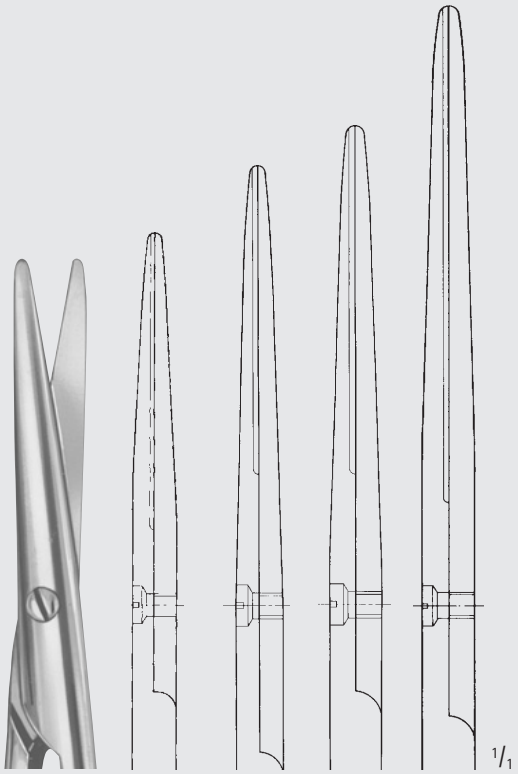
BC601R	BC602R	BC604R
145 mm	180 mm	200 mm
5 3/4"	7"	8"



BC605R	BC606R	BC607R
145 mm	180 mm	200 mm
5 3/4"	7"	8"

METZENBAUM

BC601R–BC607R



BC611R	BC612R	BC613R	BC614R
230 mm	250 mm	280 mm	305 mm
9"	10"	11"	12"



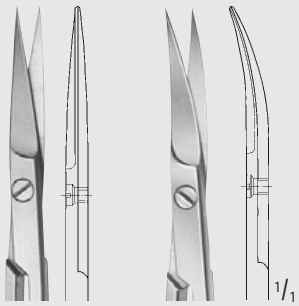


BC615R	BC616R	BC618R	BC619R
230 mm	250 mm	280 mm	305 mm
9"	10"	11"	12"

NELSON-METZENBAUM

BC611R-BC619R





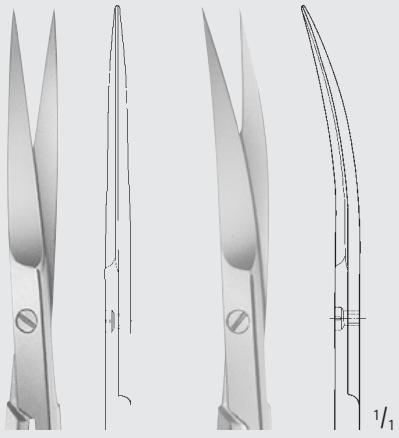
BC004R

BC005R

BC004R–BC005R

115 mm, 4 1/2"





BC006R

BC007R

JOSEPH

BC006R–BC007R

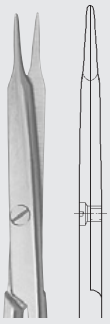
150 mm, 6"



STEVENS

BC008R-BC011R

115 mm, 4 1/2"



BC008R

sharp

spitz



BC009R

sharp

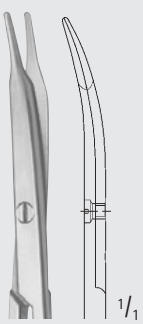
spitz



BC010R

blunt

stumpf



BC011R

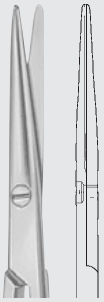
blunt

stumpf

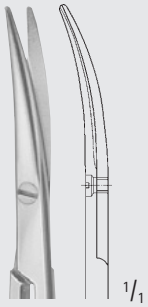


BC020R-BC021R

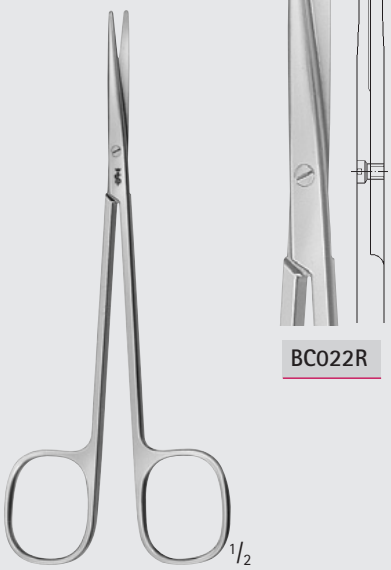
115 mm, 4 1/2"



BC020R



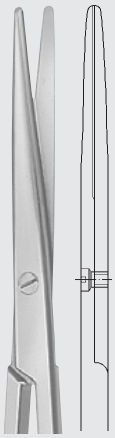
BC021R



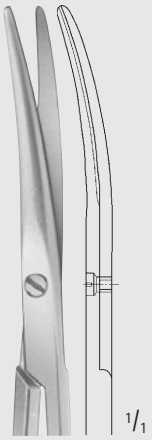
METZENBAUM

BC022R-BC023R

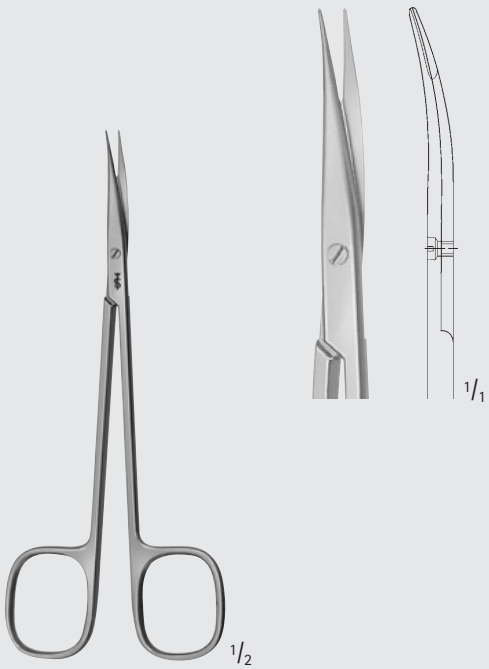
145 mm, 5 3/4"



BC022R



BC023R



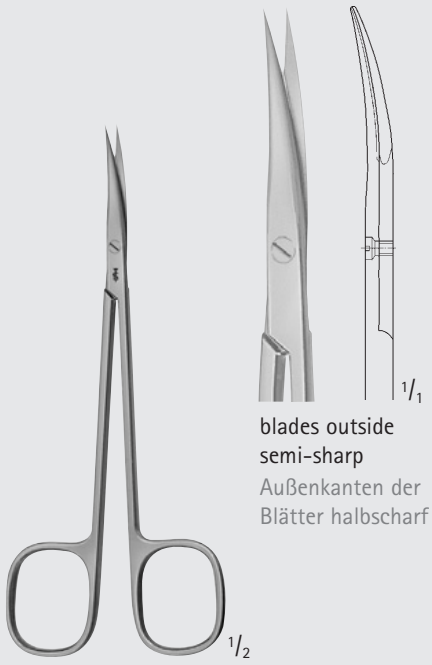
REYNOLDS-JAMESON

BC015R

Vascular scissors

Gefäß-Schere

140 mm, 5 1/2"



blades outside semi-sharp

Außenkanten der Blätter halbscharf

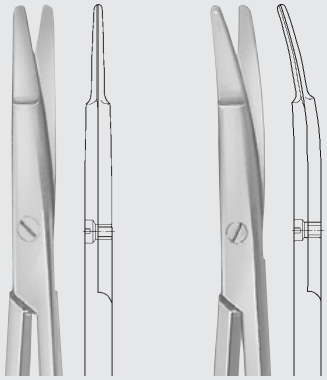
BC017R

Nerve dissecting scissors

Nerv-Präparierschere

140 mm, 5 1/2"





BC026R

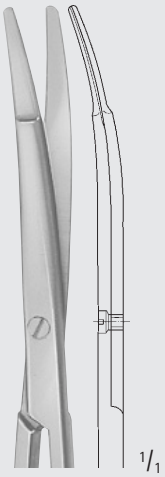
135 mm

5 1/4"

BC027R

135 mm

5 1/4"



BC029R

150 mm

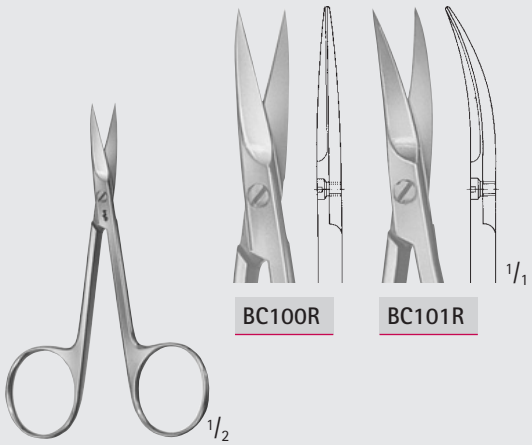
6"

RAGNELL

BC026R–BC029R

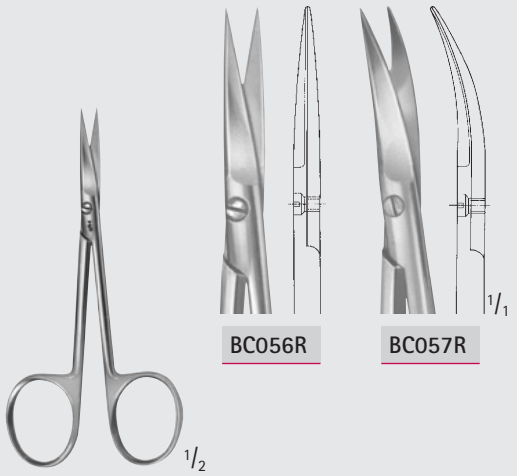
special flat points for dissecting and undermining the skin

besonders flache Spitzen zum Präparieren und Unterminieren der Haut



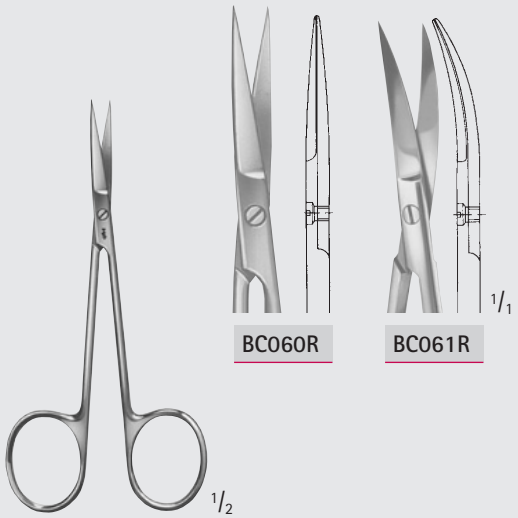
BC100R BC101R

BC100R–BC101R
90 mm, 3 1/2"



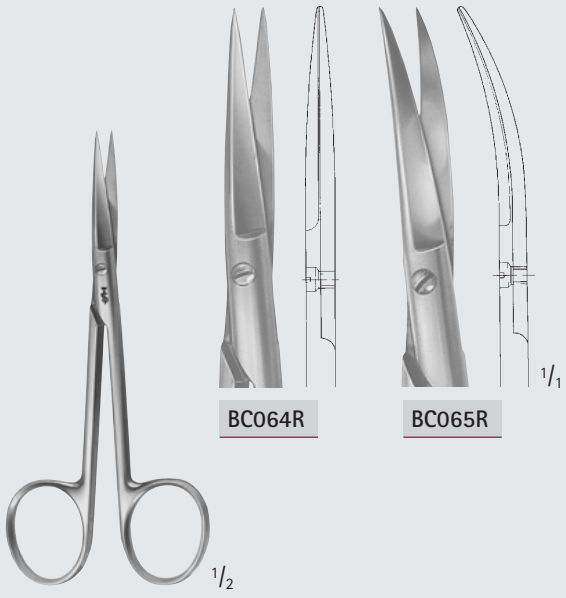
BC056R BC057R

BC056R–BC057R
95 mm, 3 3/4"



BC060R BC061R

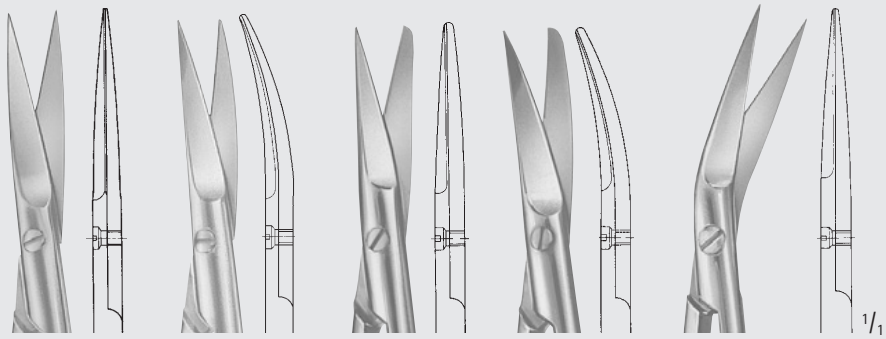
BC060R–BC061R
105 mm, 4 1/8"



BC064R BC065R

BC064R–BC065R
120 mm, 4 3/4"



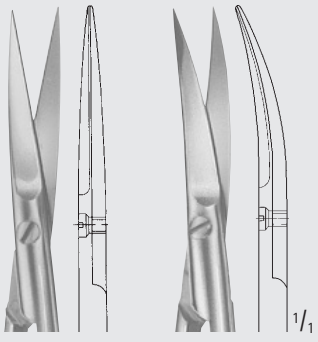


BC110R | BC111R | BC112R | BC113R | BC117R

curved to side
seitwärts gebogen

BC110R–BC117R
110 mm, 4 3/8"

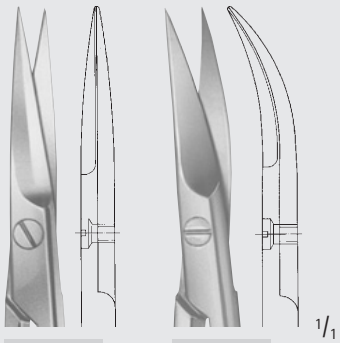




BC106R | BC107R

BC106R–BC107R
115 mm, 4 1/2"

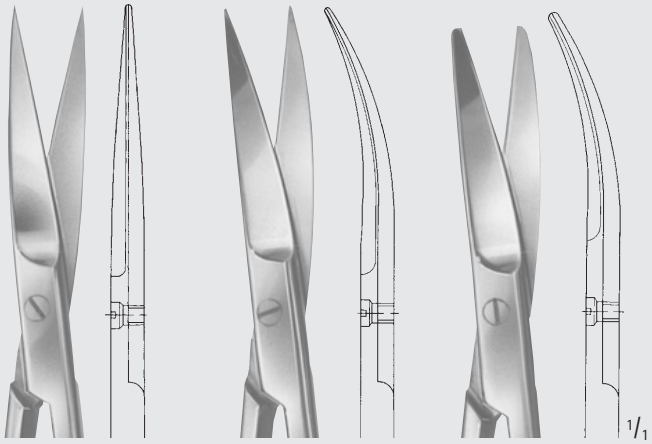




DO210R | DO211R

DO210R–DO211R
120 mm, 4 3/4"

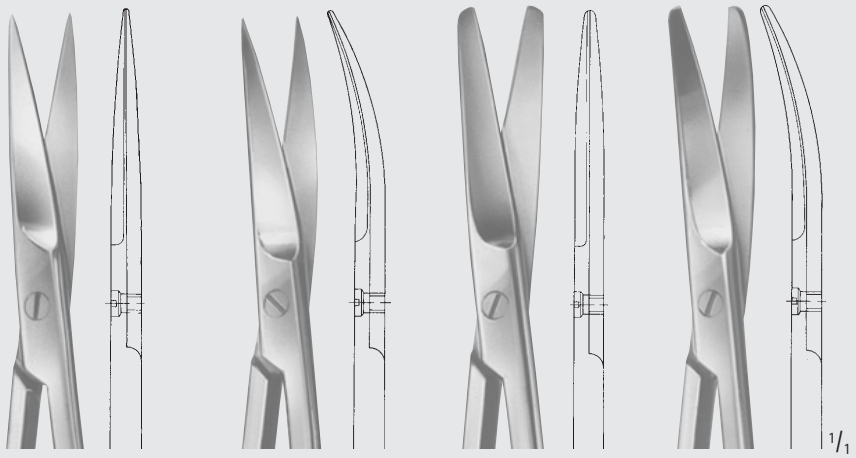




BC130R | BC131R | BC135R

BC130R–BC135R
120 mm, 4 3/4"

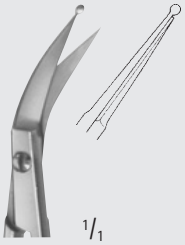




BC140R | BC141R | BC144R | BC145R

BC140R–BC145R
130 mm, 5 1/8"





curved to side
seitwärts gebogen

PERWITZSCHKY

OM489R

100 mm, 4"

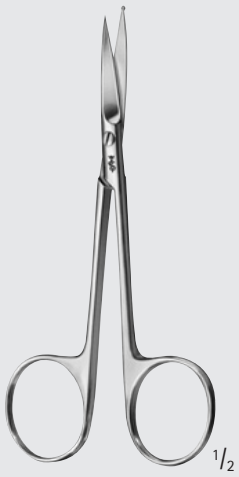


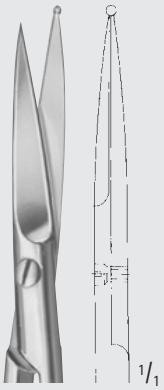


angled to side
seitwärts abgewinkelt

BC033R

115 mm, 4 1/2"



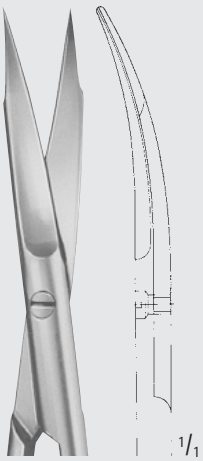


with 1 probe
pointed blade
1 Blatt mit Knopf

BC030R

120 mm, 4 3/4"

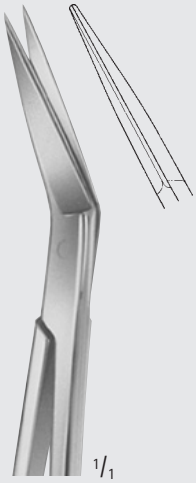




1 blade fine serrated
1 Schneide fein gezahnt

DO251R
130 mm, 5 1/8"

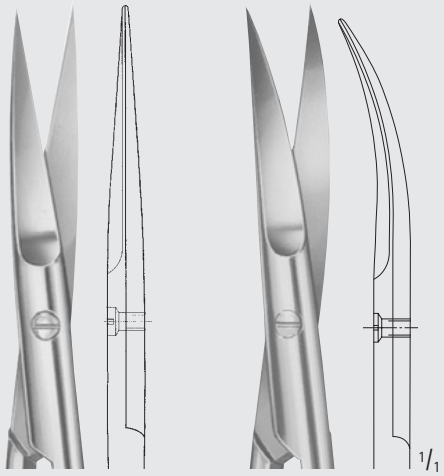




angled to side, 1 blade serrated
seitwärts abgewinkelt, 1 Schneide gezahnt

LOCKLIN
DO219R
155 mm, 6"





BC156R

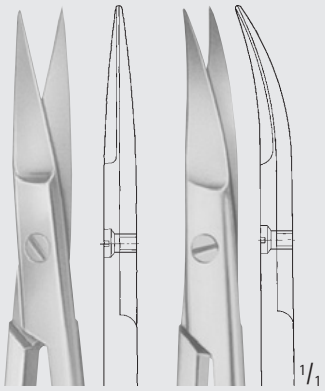
BC157R

JOSEPH

BC156R–BC157R

150 mm, 6″





BC160R

BC161R

KELLY

BC160R–BC161R

175 mm, 7″





1 blade serrated

1 Schneide gezahnt

MORSE

BC196R

175 mm, 7″



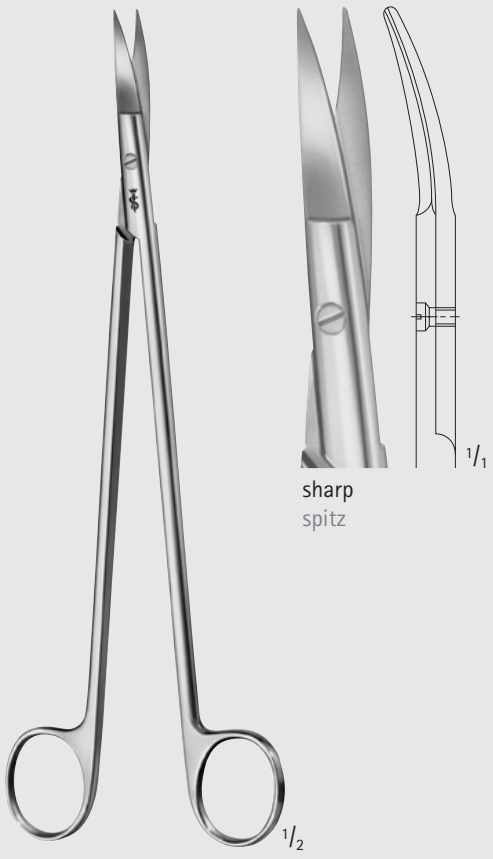
SCHMIEDEN-TAYLOR

BC660R

Dura scissors

Duraschere

155 mm, 6"



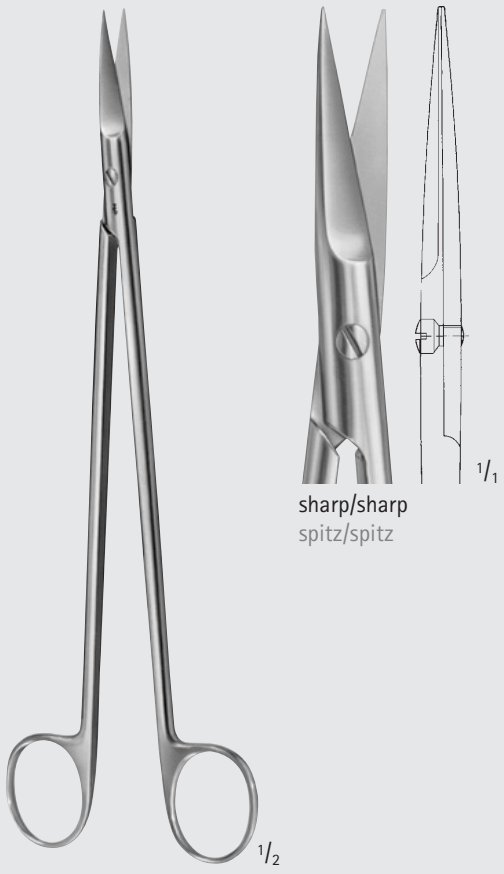
sharp

spitz

STRULLY

BC644R

220 mm, 8 3/4"

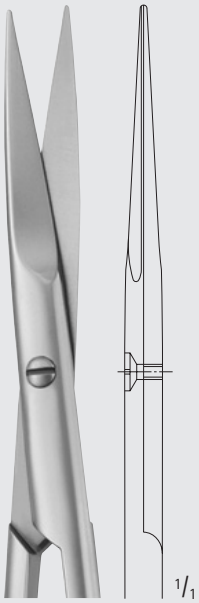


sharp/sharp

spitz/spitz

BC642R

225 mm, 9"



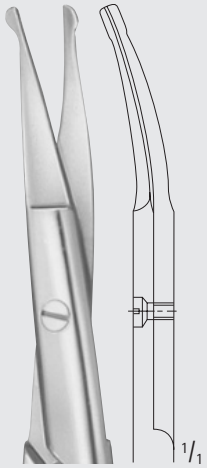
sharp/sharp
spitz/spitz



BARRÉ

BC715R

280 mm, 11"



probe pointed
geknöpft



STRULLY

BC645R

220 mm, 8 3/4"

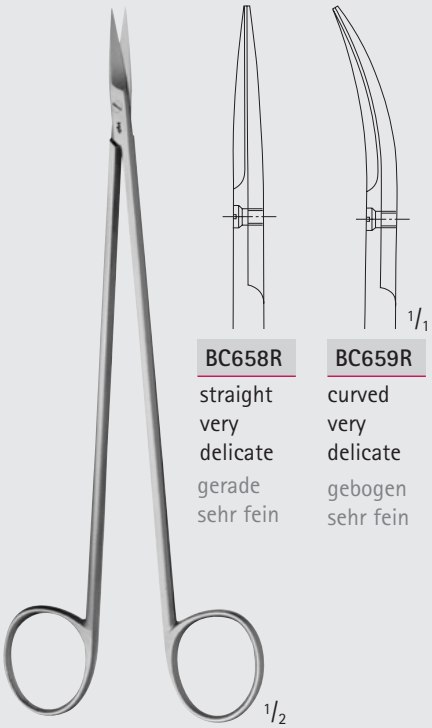


THOREK
BC636R
180 mm
7"

HOHENFELLNER
BC638R
225 mm
9"

HOHENFELLNER
BC639R
255 mm
10"

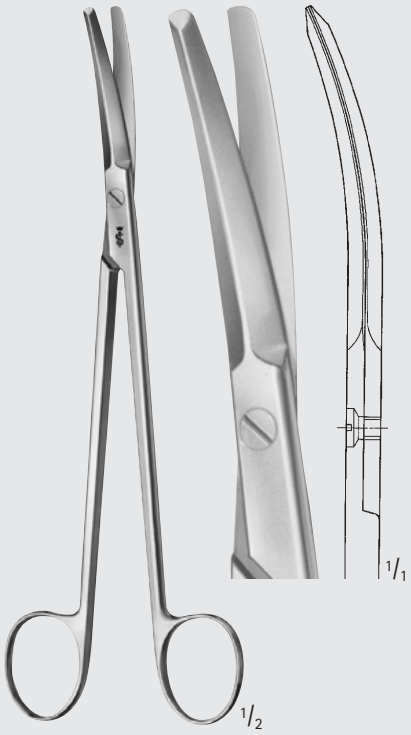
BC636R-BC639R



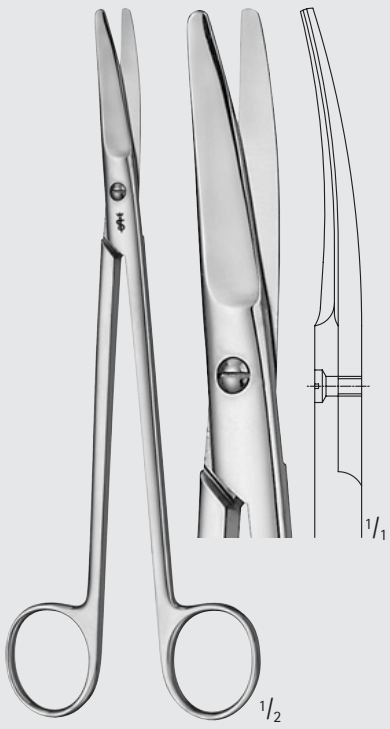
BC658R
straight
very
delicate
gerade
sehr fein

BC659R
curved
very
delicate
gebogen
sehr fein

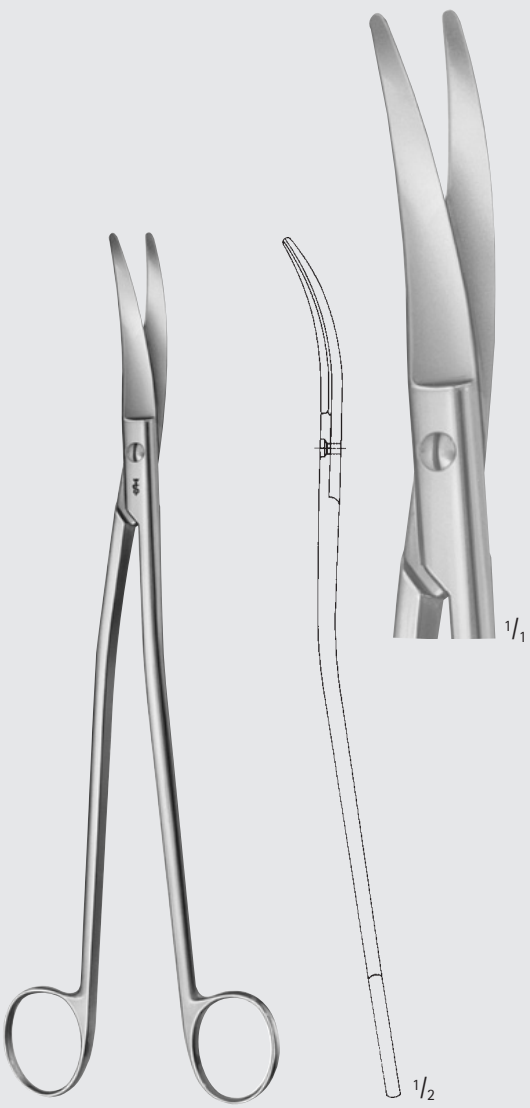
BC658R-BC659R
190 mm, 7 1/2"



POTTS-SMITH
BC643R
190 mm, 7 1/2"



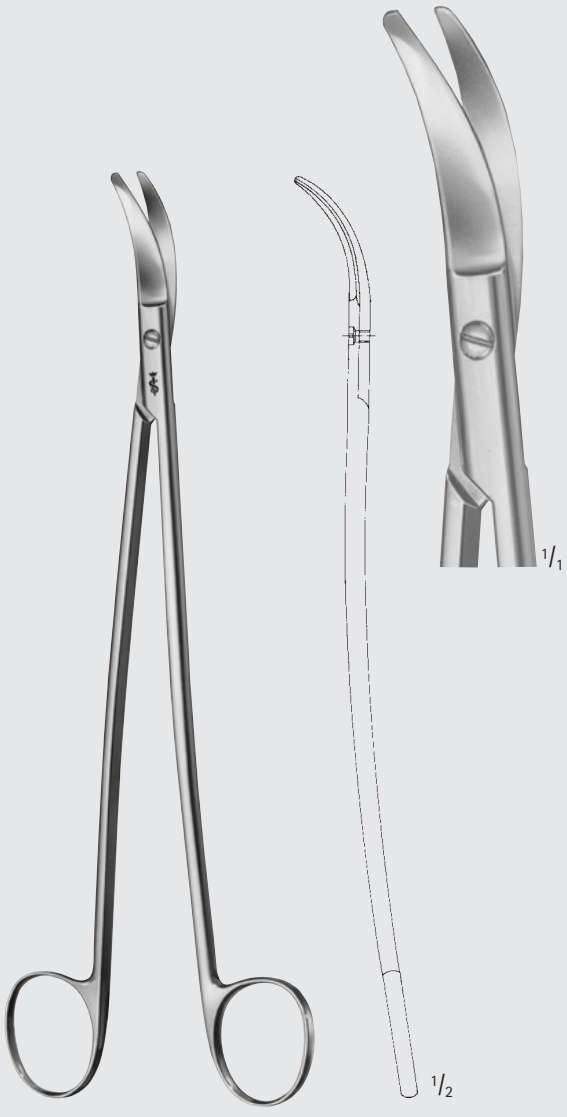
COOLEY
BC597R
190 mm, 7 1/2"



KLINKENBERG-LOTH

BC640R

230 mm, 9"



SATINSKY

BC641R

245 mm, 9 3/4"



1/1

DIETHRICH-POTTS

BC515R–BC535R

180 mm, 7"

	25°	45°	60°	90°	125°
Standard blade size, 12 mm Standard Blatt, 12 mm					
	BC522R	BC523R	BC524R	BC525R	BC526R
Delicate blade, 10 mm Sehr feines Blatt, 10 mm					
	BC531R	BC532R	BC533R	BC534R	BC535R
Ultra delicate blade, 8 mm Extrem feines Blatt, 8 mm					
	BC515R	BC516R	BC517R	BC518R	BC519R



BC656R
45°

BC657R
60°

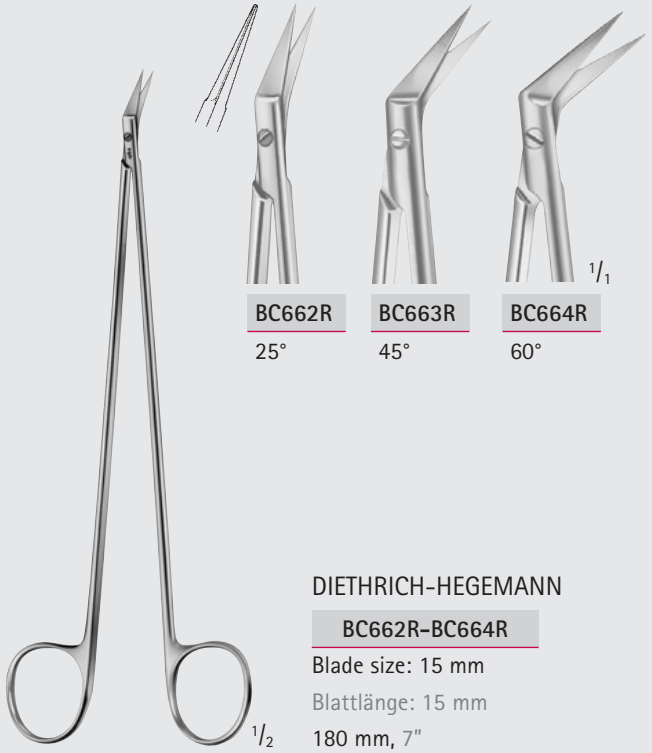
1/1

1/2

DE BAKEY

BC656R–BC657R

155 mm, 6"



BC662R
25°

BC663R
45°

BC664R
60°

1/1

1/2

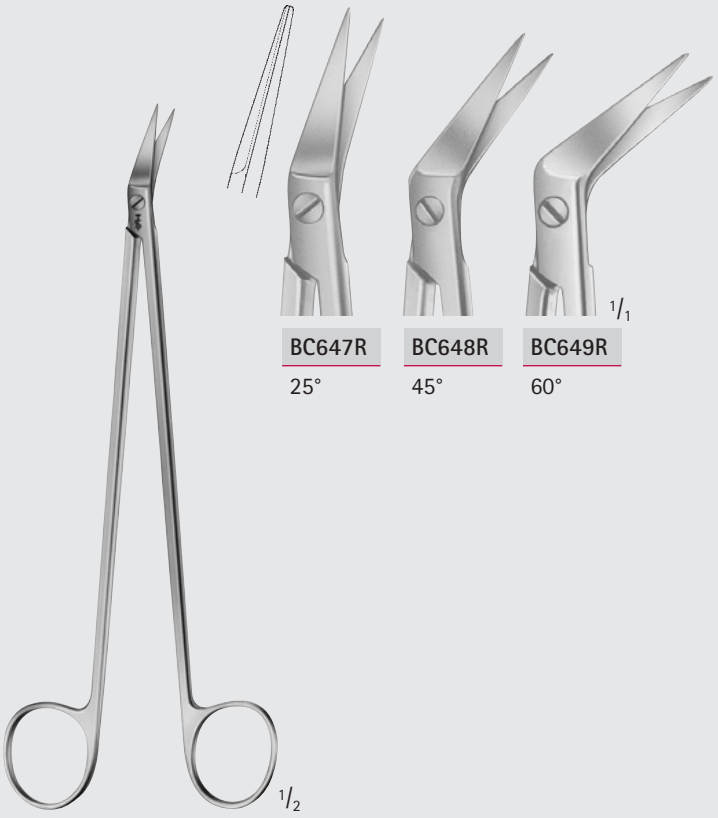
DIETHRICH-HEGEMANN

BC662R–BC664R

Blade size: 15 mm

Blattlänge: 15 mm

180 mm, 7"



BC647R
25°

BC648R
45°

BC649R
60°

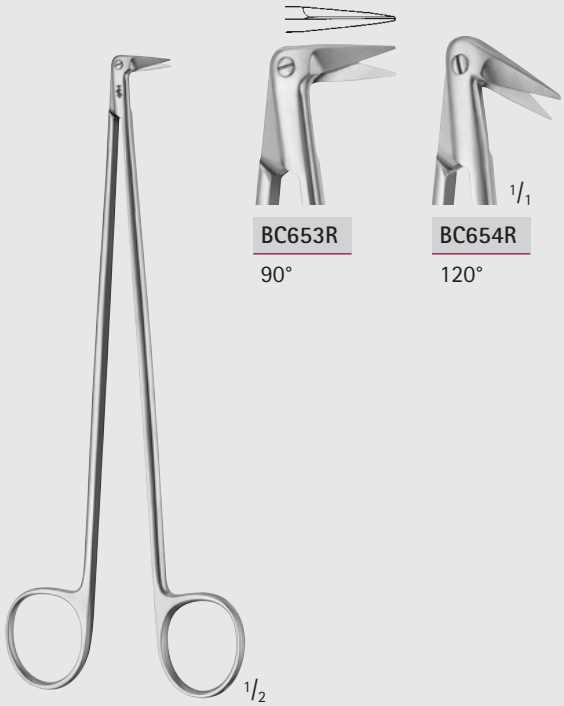
1/1

1/2

POTTS-DE MARTEL

BC647R–BC649R

185 mm, 7 1/4"



BC653R
90°

BC654R
120°

1/1

1/2

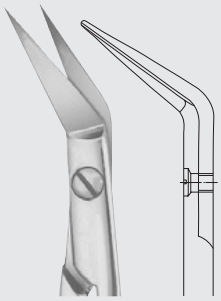
DIETHRICH

BC653R–BC654R

170 mm, 6 3/4"



1/2



55°
angled on flat
55°
aufgebogen

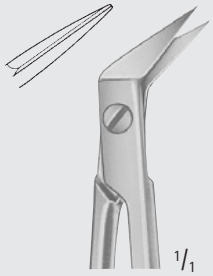
POTTS-SMITH

BC646R

180 mm, 7"



1/2



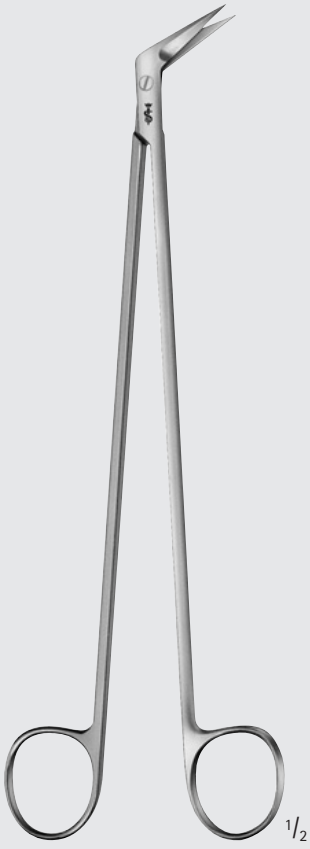
1/1

60°

POTTS-SMITH

BC652R

180 mm, 7"



1/2



POTTS-DE MARTEL

BC650R

60°



1/1

MILLS

BC651R

60°

BC650R–BC651R

220 mm, 8 3/4"

MILLIMETERS



1/2



1/1

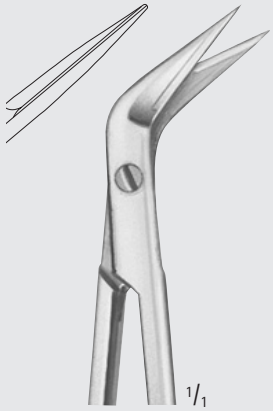
BC678R	BC679R
30°	30°
225 mm	275 mm
9"	10 3/4"

COOLEY

BC678R–BC679R



1/2



1/1

60°

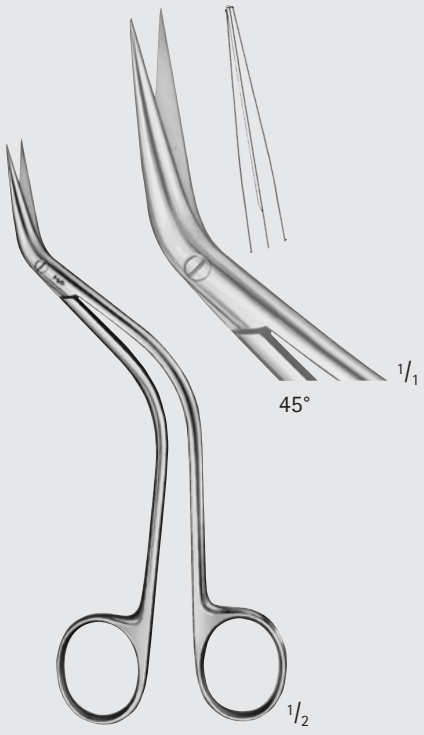
DE BAKEY

BC245R

with tungsten carbide inserts

mit Hartmetalleinlagen

220 mm, 8 3/4"



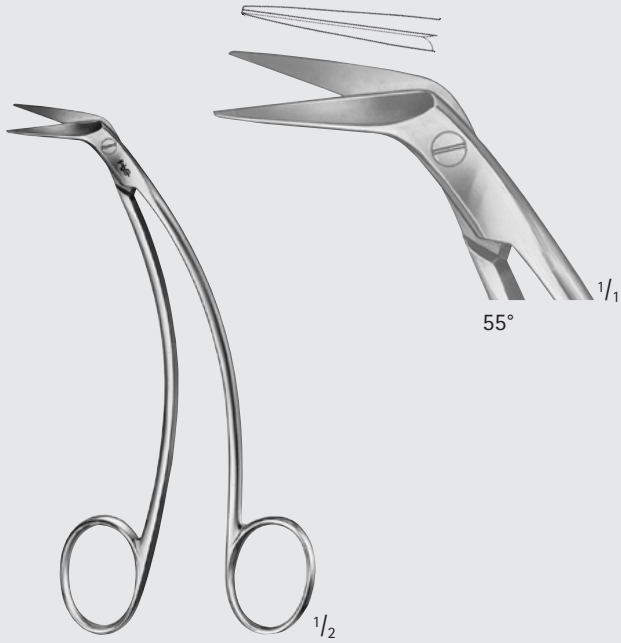
DE BAKEY

BC669R

Offset scissors, s-shaped

Offset-Schere, S-förmig

155 mm, 6"



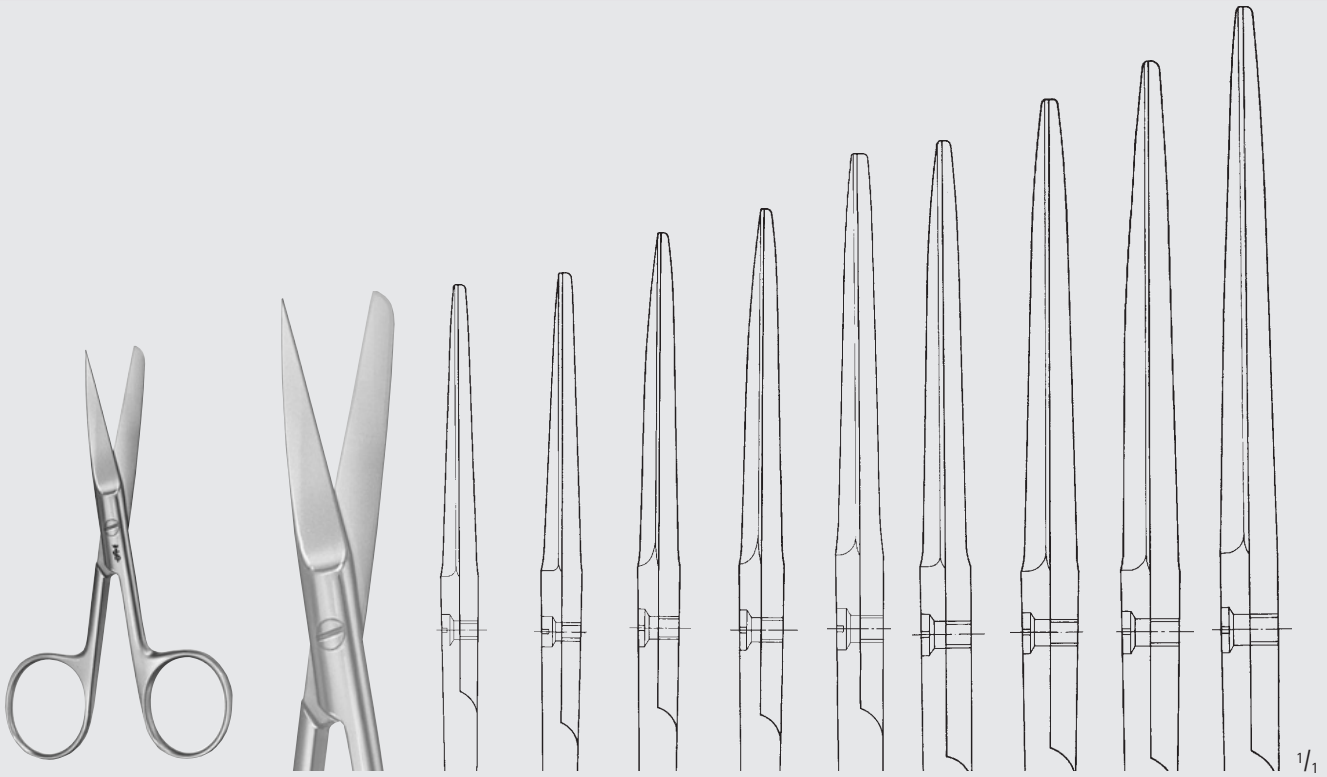
FAVOLORO

BC670R

Cardiovascular scissors

Gefäßschere

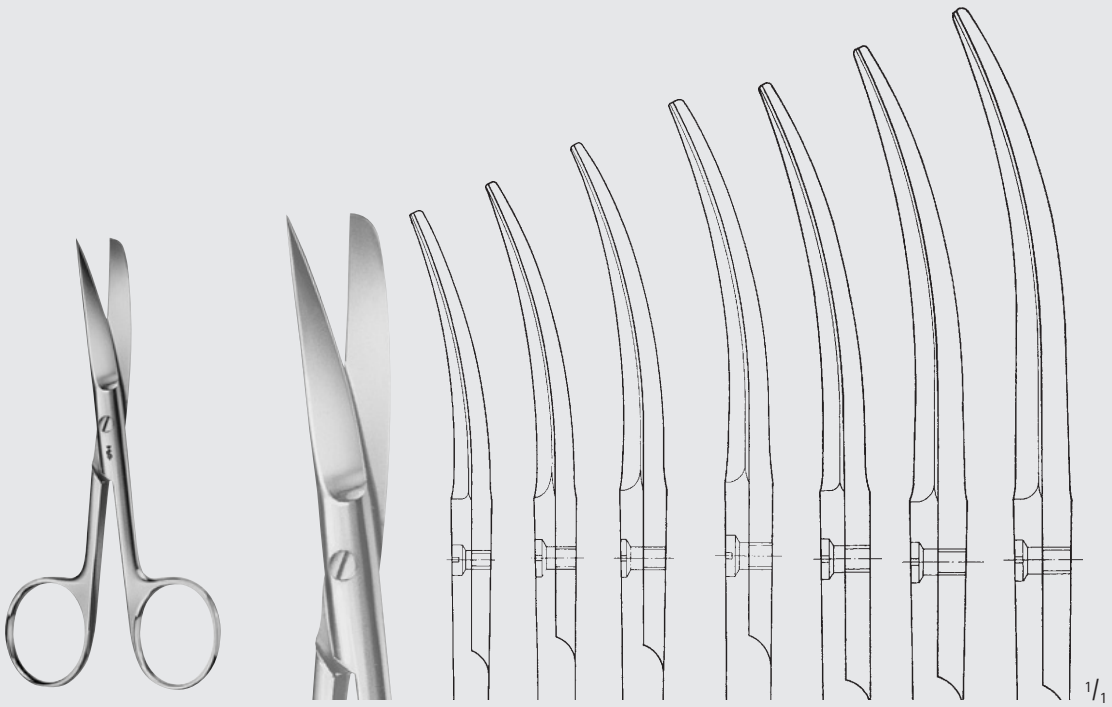
140 mm, 5 1/2"



1/1

BC320R–BC330R
Standard patterns
Standard-Modelle

BC320R	BC321R	BC323R	BC324R	BC325R	BC326R	BC327R	BC328R	BC330R
105 mm	115 mm	130 mm	145 mm	150 mm	165 mm	175 mm	185 mm	200 mm
4 1/8"	4 1/2"	5 1/8"	5 3/4"	6"	6 1/2"	7"	7 1/4"	8"



1/1

BC421R–BC428R
Standard patterns
Standard-Modelle

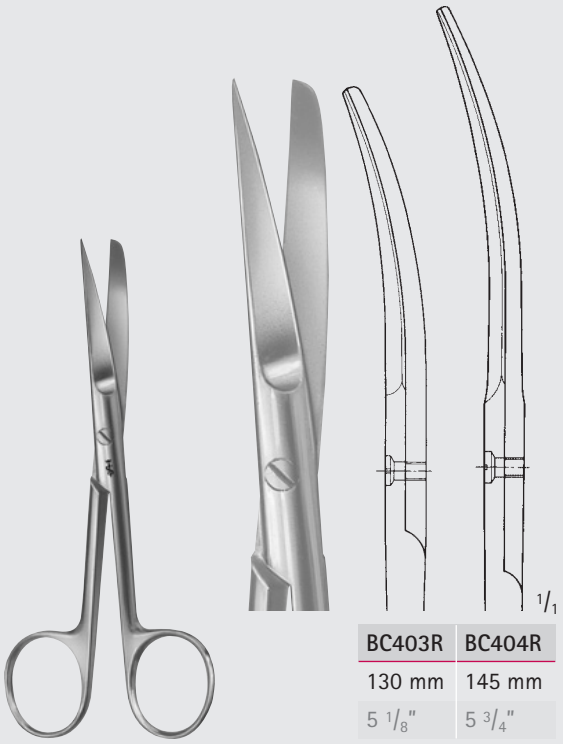
BC421R	BC423R	BC424R	BC425R	BC426R	BC427R	BC428R
115 mm	130 mm	145 mm	150 mm	165 mm	175 mm	185 mm
4 1/2"	5 1/8"	5 3/4"	6"	6 1/2"	7"	7 1/4"

INCHES



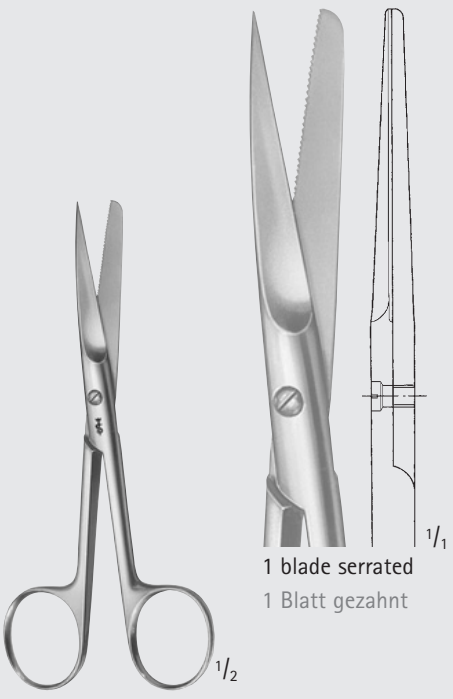
BC303R	BC304R
130 mm	145 mm
5 1/8"	5 3/4"

BC303R–BC304R
slender patterns
schlanke Modelle



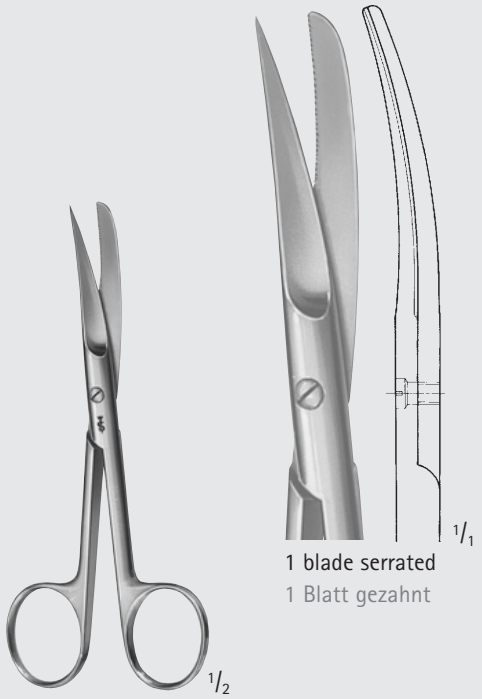
BC403R	BC404R
130 mm	145 mm
5 1/8"	5 3/4"

BC403R–BC404R
slender patterns
schlanke Modelle



1 blade serrated
1 Blatt gezahnt

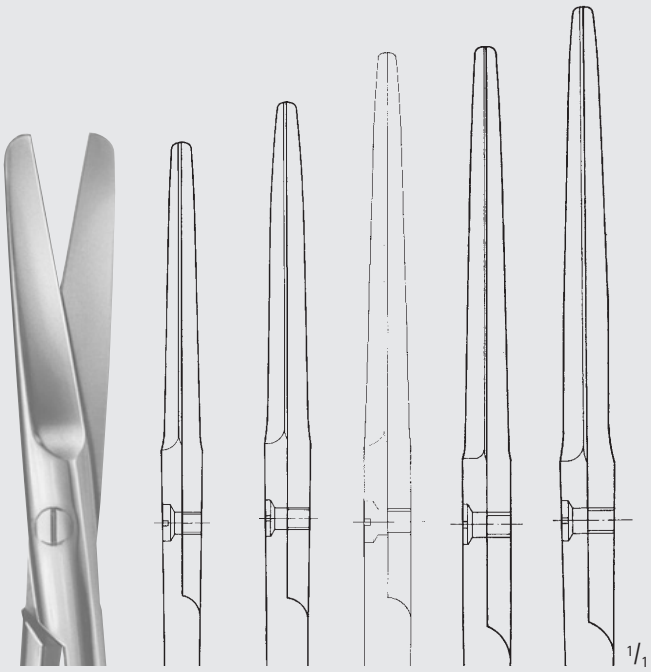
BC496R
Scissors for wound edges
Wundrandschere
130 mm, 5 1/8"



1 blade serrated
1 Blatt gezahnt

BC497R
Scissors for wound edges
Wundrandschere
130 mm, 5 1/8"





COOPER

BC313R–BC317R

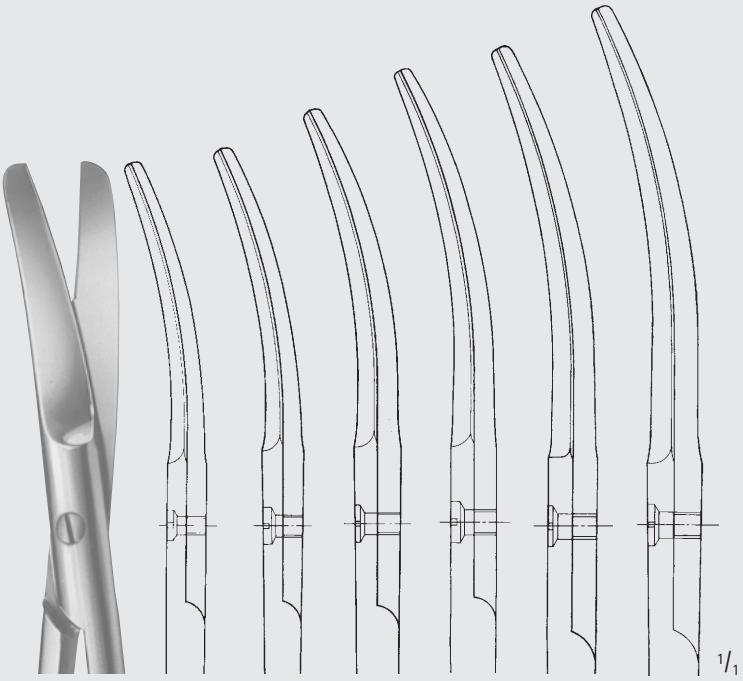
Standard patterns

Standard-Modelle

BC313R	BC314R	BC315R	BC316R	BC317R
130 mm	145 mm	150 mm	165 mm	175 mm
5 1/8"	5 3/4"	6"	6 1/2"	7"

1/1





COOPER

BC411R–BC417R

Standard patterns

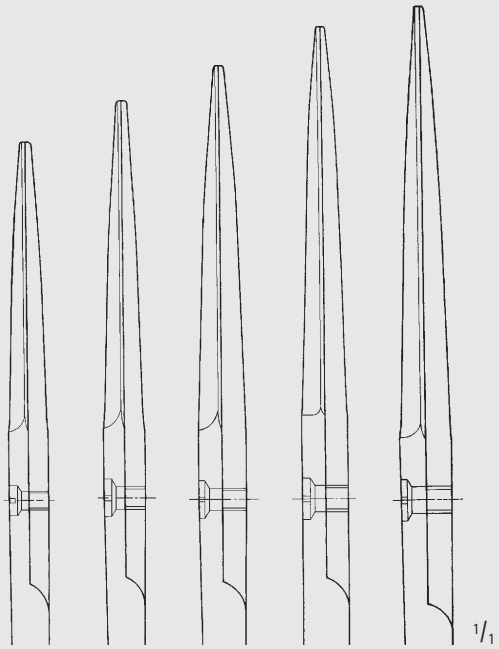
Standard-Modelle

BC411R	BC413R	BC414R	BC415R	BC416R	BC417R
115 mm	130 mm	145 mm	150 mm	165 mm	175 mm
4 1/2"	5 1/8"	5 3/4"	6"	6 1/2"	7"

1/1







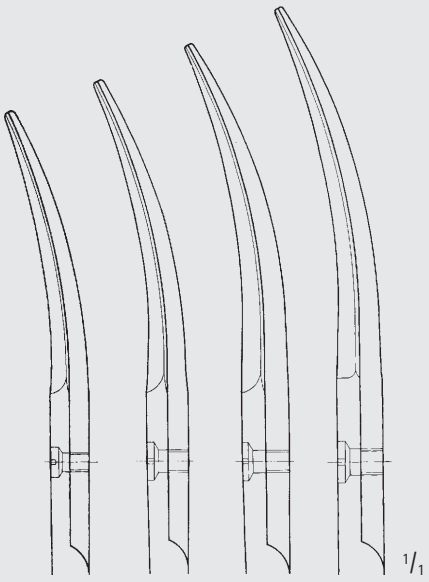
1/1

BC341R	BC343R	BC344R	BC345R	BC346R
115 mm	130 mm	145 mm	150 mm	165 mm
4 1/2"	5 1/8"	5 3/4"	6"	6 1/2"

BC341R–BC346R
Standard patterns
Standard-Modelle



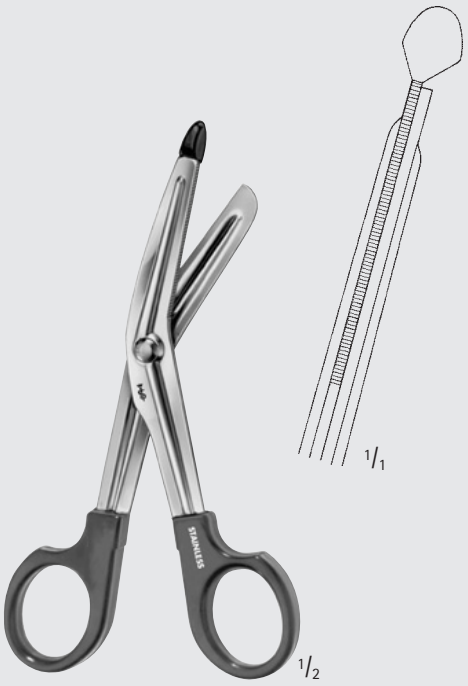




1/1

BC441R	BC443R	BC444R	BC445R
115 mm	130 mm	145 mm	150 mm
4 1/2"	5 1/8"	5 3/4"	6"

BC441R–BC445R
Standard patterns
Standard-Modelle



LISTER

BC885R	black	schwarz	**BC975R**	orange	orange
BC970R	red	rot	**BC977R**	pink	pink
BC971R	blue	blau	**BC978R**	light green	hellgrün
BC973R	yellow	gelb	**BC979R**	violet	violett

Universal bandage and cloth scissors,with toothed edges, autoclavable up to 143 °C (3 bar)

Universal Verband- und Kleiderstoffschere, mit gezahnten Schneiden, autoklavierbar bis 143 °C (3 bar)

145 mm, 5 3/4"

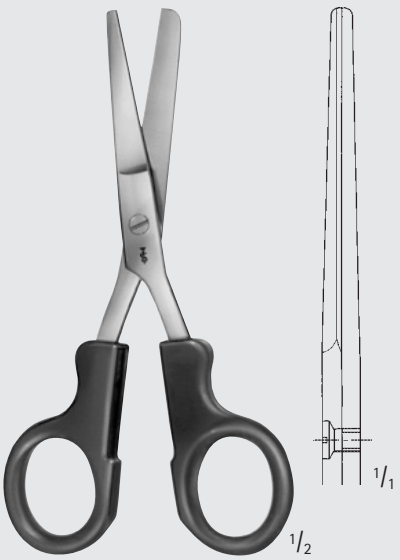


BC881R	black	schwarz	**BC985R**	orange	orange
BC980R	red	rot	**BC987R**	pink	pink
BC981R	blue	blau	**BC988R**	light green	hellgrün
BC983R	yellow	gelb	**BC989R**	violet	violett

Universal bandage and cloth scissors, with toothed edges, autoclavable up to 143 °C (3 bar)

Universal Verband- und Kleiderstoffschere, mit gezahnten Schneiden, autoklavierbar bis 143 °C (3 bar)

180 mm, 7"



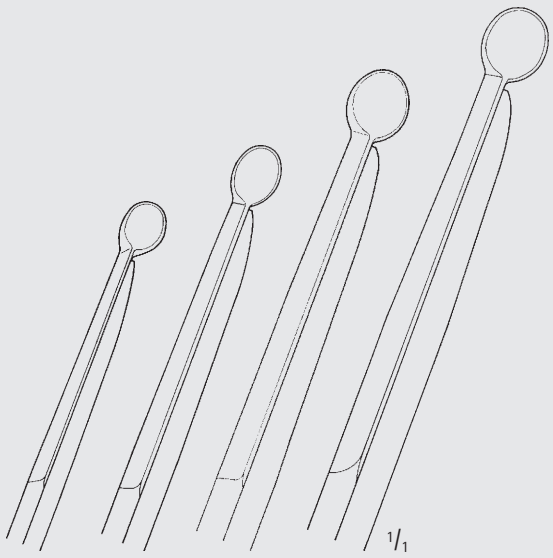
BC890R

Nurse`s scissors, autoclavable up to 143°C (3 bar)

Schwesternschere, autoklavierbar bis 143°C (3 bar)

145 mm, 5 3/4"



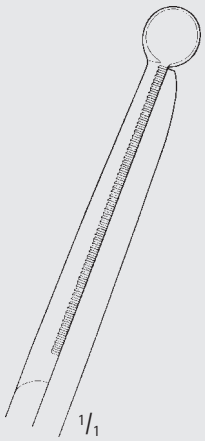


BC860R	BC861R	BC862R	BC863R
115 mm	140 mm	180 mm	200 mm
4 1/2"	5 1/2"	7"	8"

LISTER

BC860R–BC863R



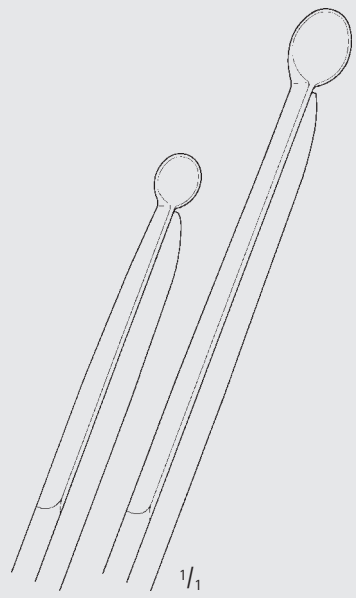


LISTER

BC876R

160 mm, 6 1/4"





BC848R	BC849R
155 mm	180 mm
6"	7"

LISTER

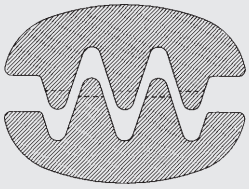
BC848R–BC849R



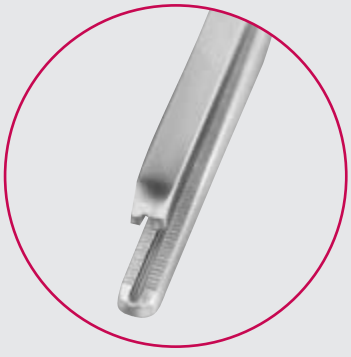


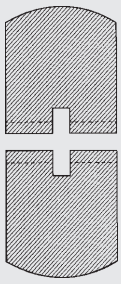
DE BAKEY
1 : 2 rows of teeth
1 : 2 Zahnreihen





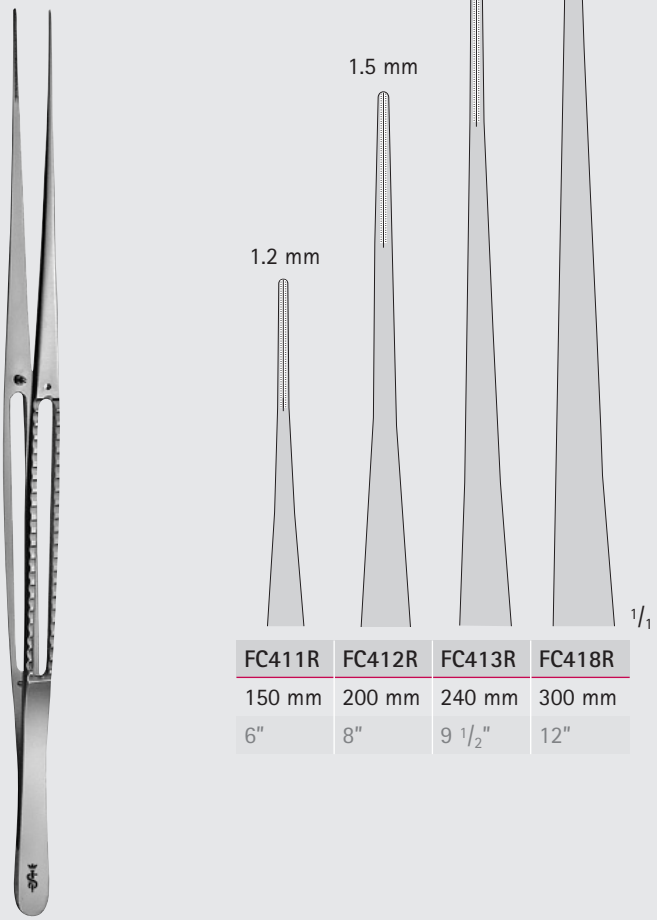
DE BAKEY
2 : 3 rows of teeth
2 : 3 Zahnreihen





COOLEY
2 : 2 rows of teeth
2 : 2 Zahnreihen





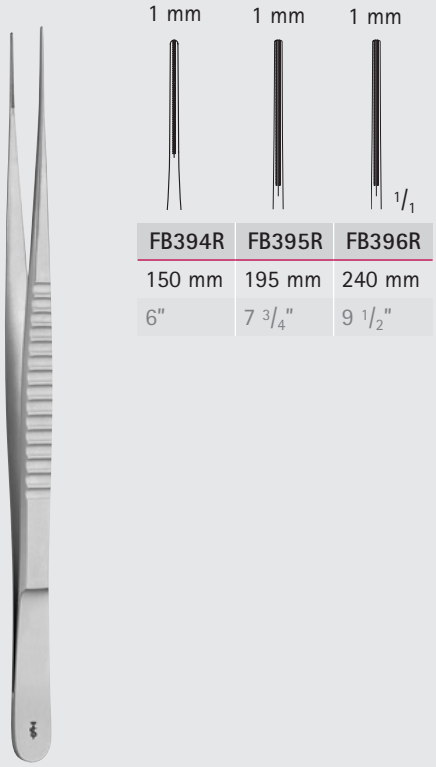
FC411R	FC412R	FC413R	FC418R
150 mm	200 mm	240 mm	300 mm
6"	8"	9 1/2"	12"

DE BAKEY

FC411R–FC418R

Ultra-Light Forceps

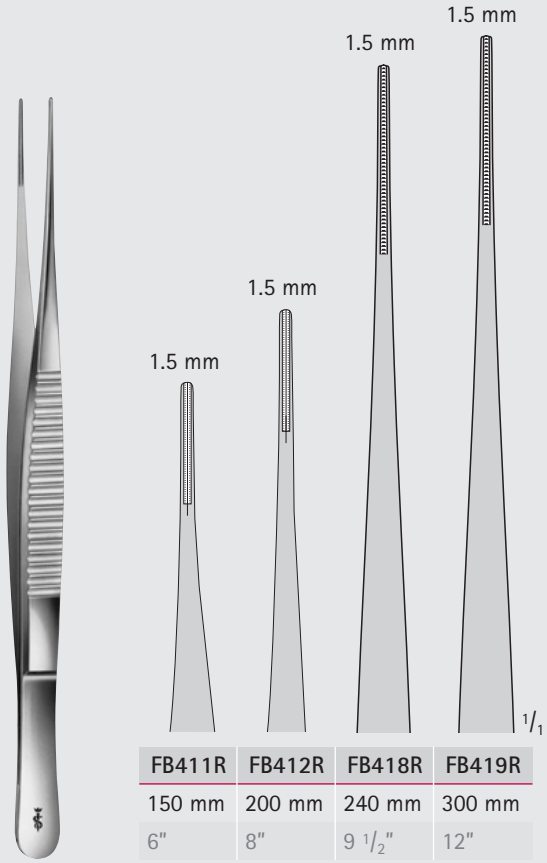
Ultra-Light Pinzetten



FB394R	FB395R	FB396R
150 mm	195 mm	240 mm
6"	7 3/4"	9 1/2"

DE BAKEY

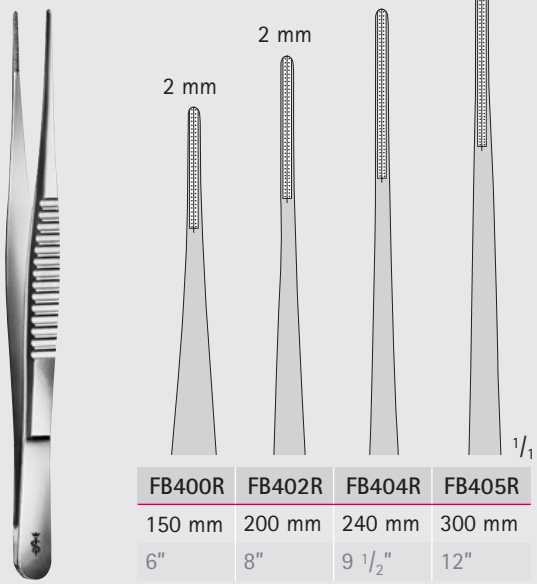
FB394R–FB396R



FB411R	FB412R	FB418R	FB419R
150 mm	200 mm	240 mm	300 mm
6"	8"	9 1/2"	12"

DE BAKEY

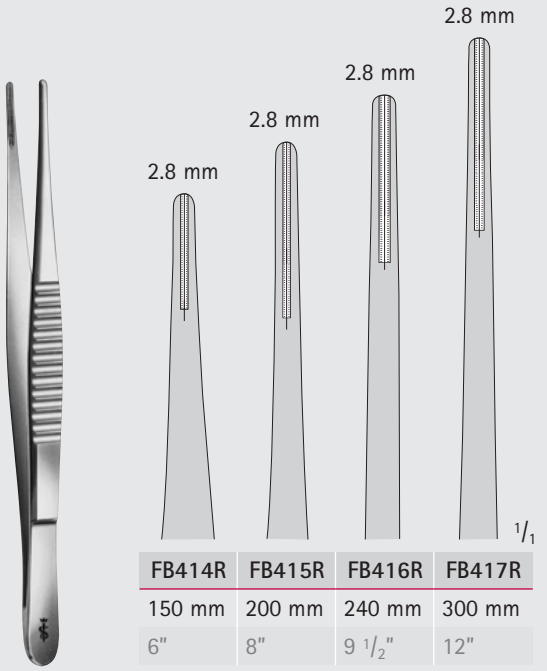
FB411R–FB419R



FB400R	FB402R	FB404R	FB405R
150 mm	200 mm	240 mm	300 mm
6"	8"	9 1/2"	12"

DE BAKEY

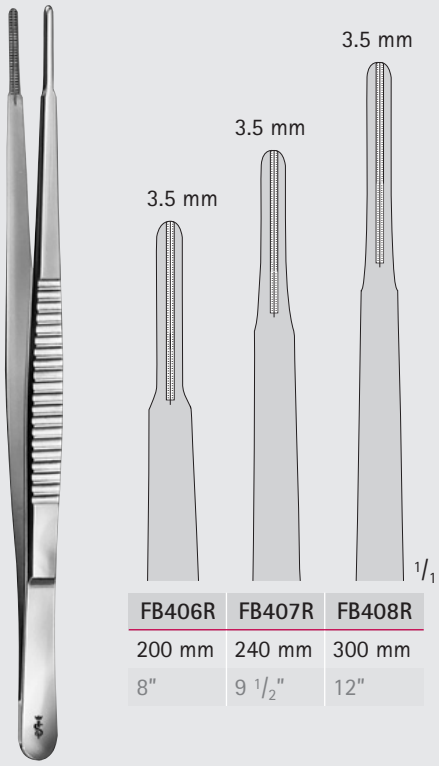
FB400R–FB405R



FB414R	FB415R	FB416R	FB417R
150 mm	200 mm	240 mm	300 mm
6"	8"	9 1/2"	12"

DE BAKEY

FB414R–FB417R



FB406R	FB407R	FB408R
200 mm	240 mm	300 mm
8"	9 1/2"	12"

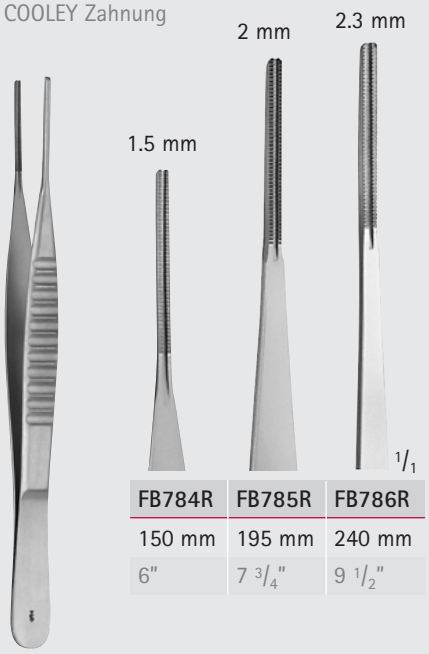
DE BAKEY

FB406R–FB408R

Toothing COOLEY



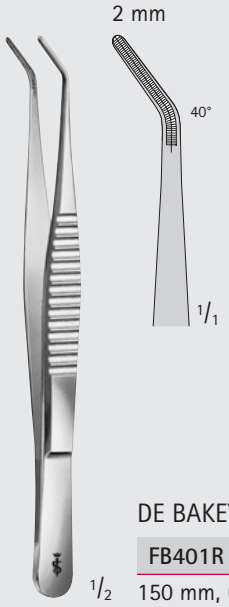
COOLEY Zahnung



FB784R	FB785R	FB786R
150 mm	195 mm	240 mm
6"	7 3/4"	9 1/2"

COOLEY

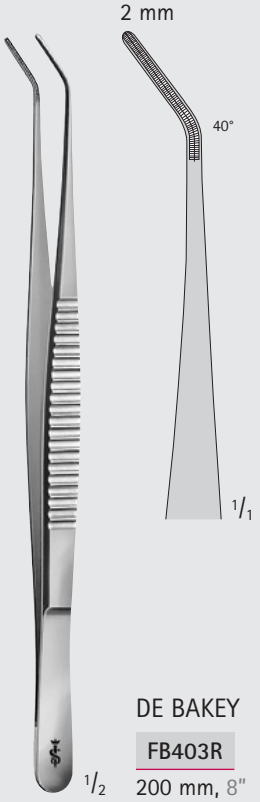
FB784R–FB786R



DE BAKEY

FB401R

150 mm, 6"



DE BAKEY

FB403R

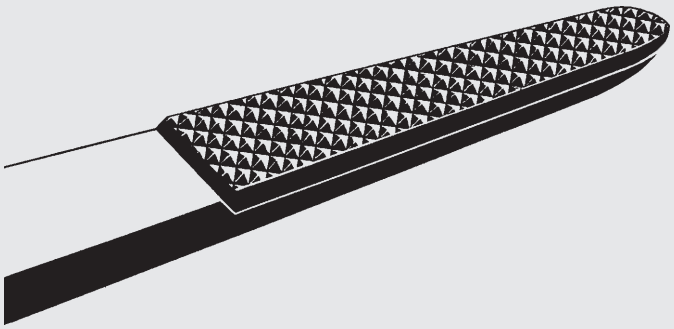
200 mm, 8"



DE BAKEY

FB410R

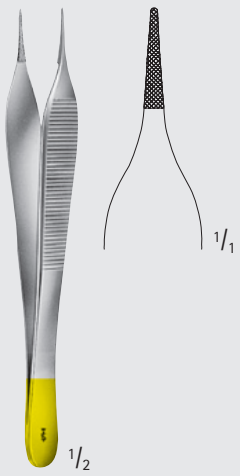
240 mm, 9 1/2"



- Precisely worked out fine structure of carbide inserts
- thus firm and non-traumatic gripping of tissue
- universal in use – long working life
- Fein strukturiertes und präzise gearbeitetes Haftprofil
- Sicheres und zugleich schonendes Fassen
- Universell verwendbar – unverwüstlich im Gebrauch

DUROGRIP® Dissecting forceps with carbide inserts
- **Identification: gold-plated end**

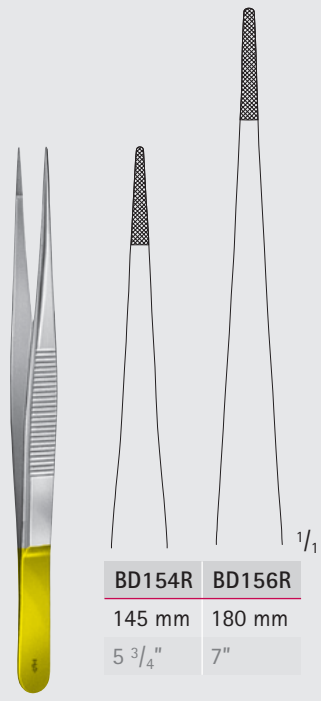
DUROGRIP® Pinzetten mit Hartmetall-Plättchen
- Kennzeichnung: vergoldete Feder



ADSON

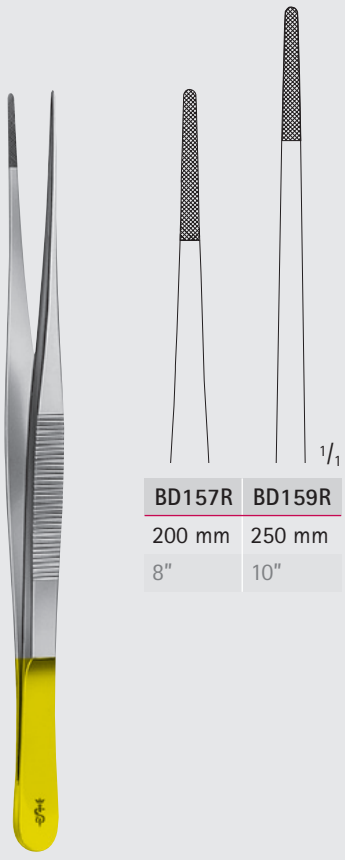
BD151R

120 mm, 4 3/4"



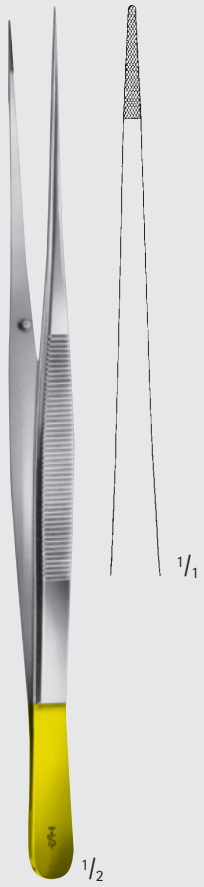
BD154R	BD156R
145 mm	180 mm
5 3/4"	7"

BD154R–BD156R



BD157R	BD159R
200 mm	250 mm
8"	10"

BD157R–BD159R



BD158R

230 mm, 9"

DIA DUST®

The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. Moreover, the structure of the DIA DUST® coating guarantees a reliable grip for fine needles and sutures, as well as for tissue.

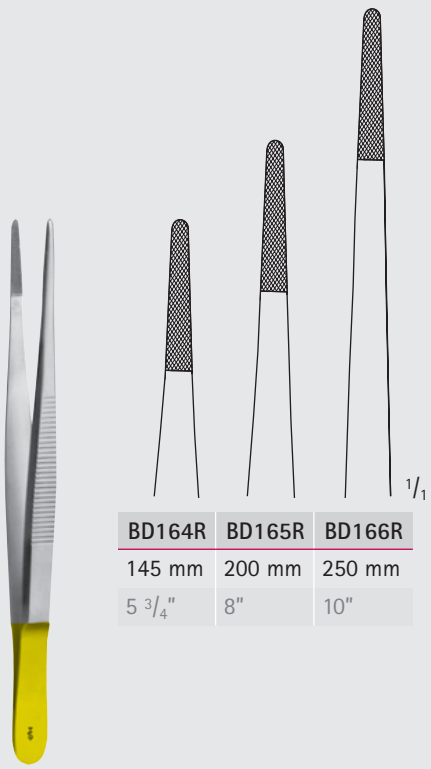
Die Diamantstaubbeschichtung sorgt für eine noch härtere und verschleißfestere Maulinnenfläche. Darüber hinaus garantiert die Struktur der DIA DUST®-Beschichtung ein zuverlässiges Fassen von feinen Nadeln und Nahtmaterialien sowie von Weichgewebe.



BD200R	BD201R
180 mm	210 mm
7"	8 1/4"

THUMB

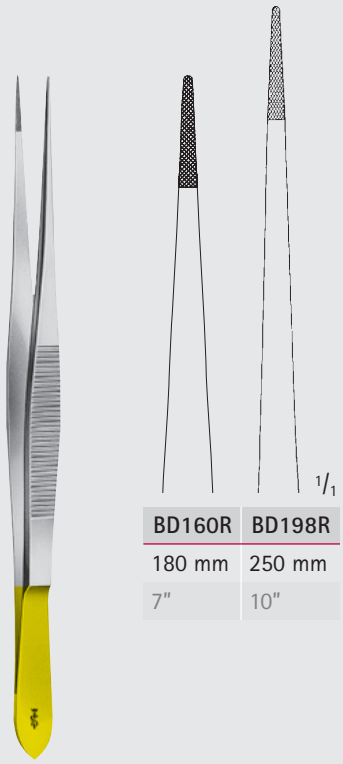
BD200R–BD201R



BD164R	BD165R	BD166R
145 mm	200 mm	250 mm
5 3/4"	8"	10"

STANDARD

BD164R–BD166R



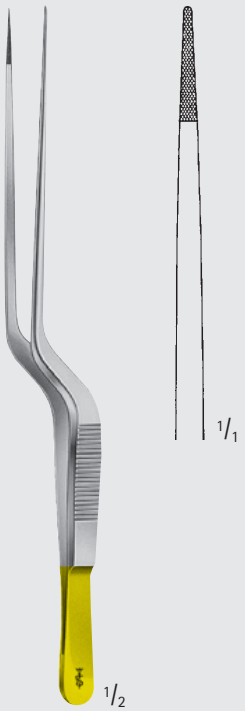
BD160R	BD198R
180 mm	250 mm
7"	10"

CUSHING

BD160R–BD198R

with scraper end

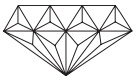
mit Schaber



GRUENWALD

BD168R

185 mm, 7 1/4"





1/2



1/1

Cushion shaped tip ensures a safe and gentle grasping of the thread

Besonders sicheres und schonendes Fassen des Fadens durch kissenförmige Maulform

BD180R

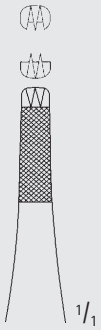
Suture forceps

Nahtpinzette

200 mm, 8"



1/2



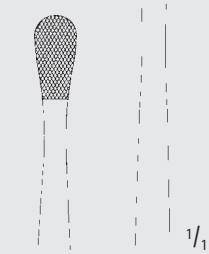
1/1

FERRIS-SMITH

BD181R

175 mm, 7"



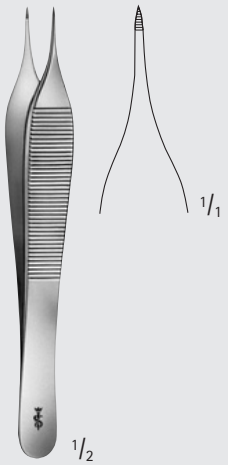


1/1

BD171R	BD173R
150 mm	230 mm
6"	9"

WANGENSTEEN

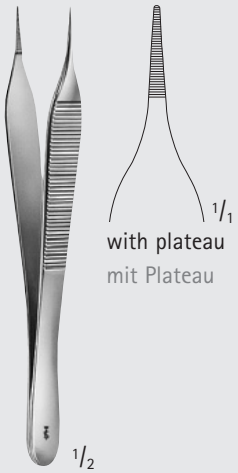
BD171R–BD173R



THORPE

OC069R

120 mm, 4 3/4"

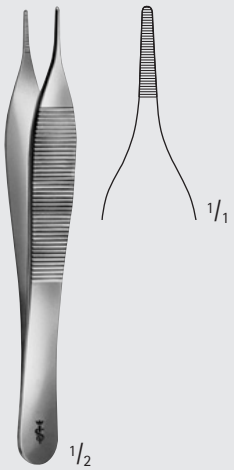


with plateau
mit Plateau

MICRO-ADSON

BD220R

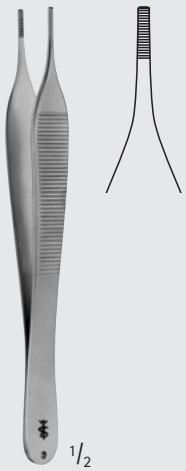
120 mm, 4 3/4"



ADSON

BD222R

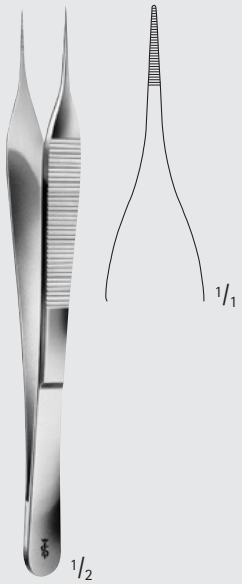
120 mm, 4 3/4"



HUDSON

BD225R

125 mm, 5"

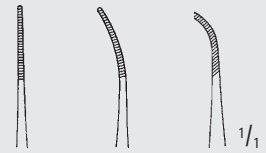


MICRO-ADSON

BD223R

150 mm, 6"

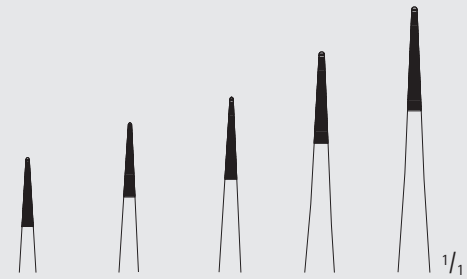


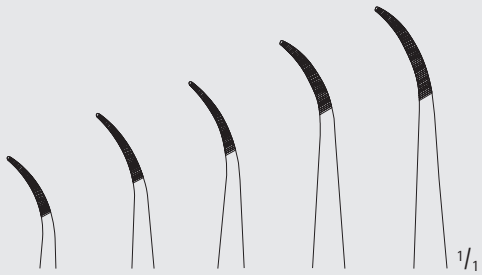


OC020R	OC021R	OC022R

OC020R–OC022R
100 mm, 4"



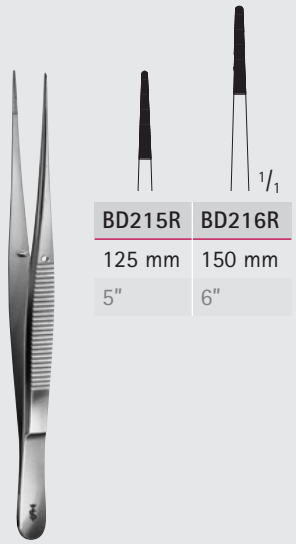




BD301R	BD302R	BD303R	BD304R	BD305R
90 mm	105 mm	115 mm	130 mm	145 mm
3 1/2"	4 1/8"	4 1/2"	5 1/8"	5 3/4"

BD311R	BD312R	BD313R	BD314R	BD315R
90 mm	105 mm	115 mm	130 mm	145 mm
3 1/2"	4 1/8"	4 1/2"	5 1/8"	5 3/4"

BD301R–BD315R



BD215R	BD216R
125 mm	150 mm
5"	6"

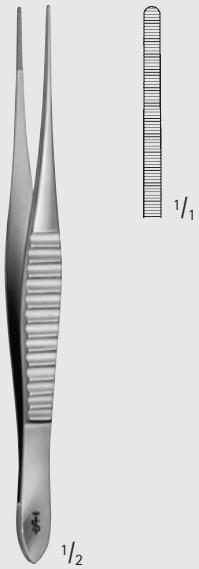
SEMKEN

BD215R–BD216R



BD217R

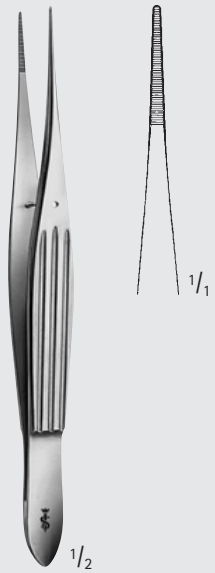
155 mm, 6"



GILLIES

BD213R

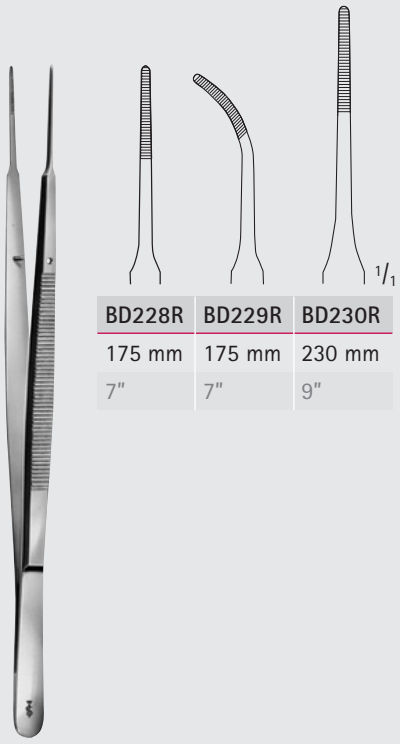
150 mm, 6"



MC INDOE

BD236R

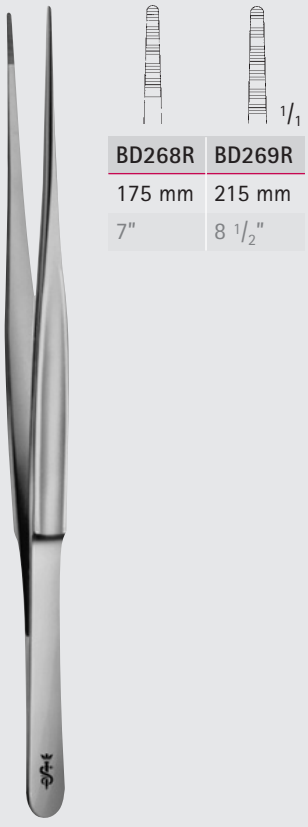
150 mm, 6"



BD228R	BD229R	BD230R
175 mm	175 mm	230 mm
7"	7"	9"

GERALD

BD228R–BD230R

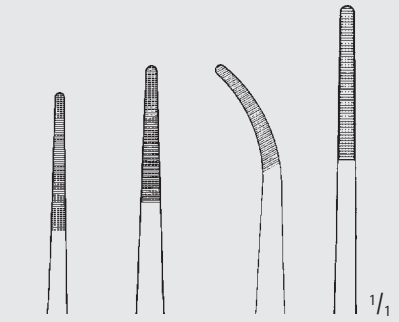


BD268R	BD269R
175 mm	215 mm
7"	8 1/2"

CAIRNS-DOTT

BD268R–BD269R

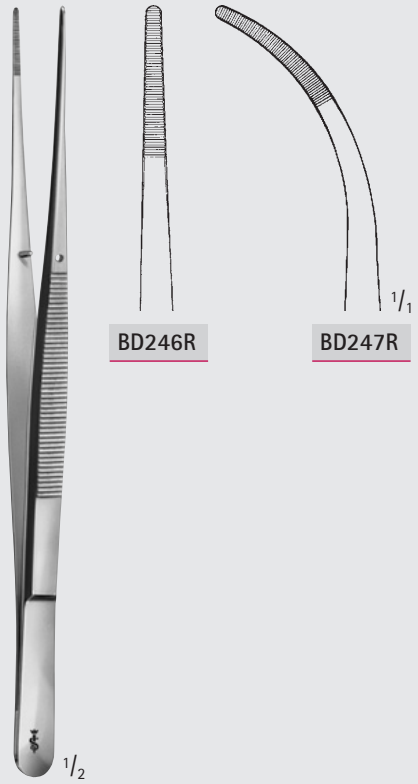




BD238R	BD239R	BD243R	BD240R
180 mm	200 mm	200 mm	250 mm
7"	8"	8"	10"

CUSHING

BD238R-BD243R



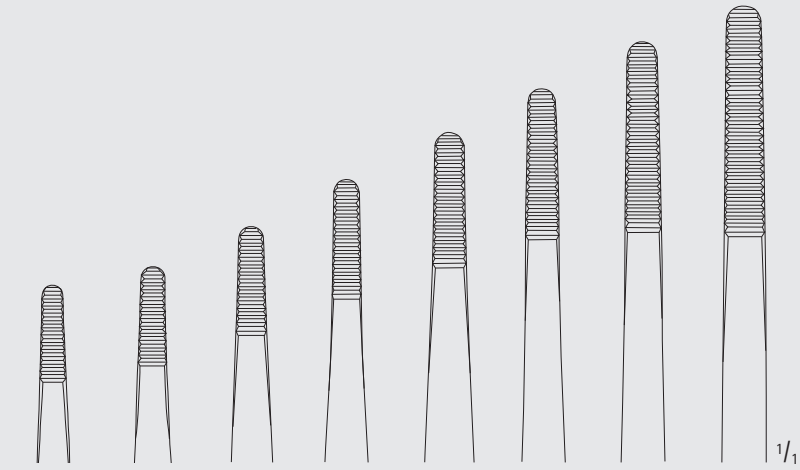
BD246R	BD247R

BROPHY

BD246R-BD247R

200 mm, 8"

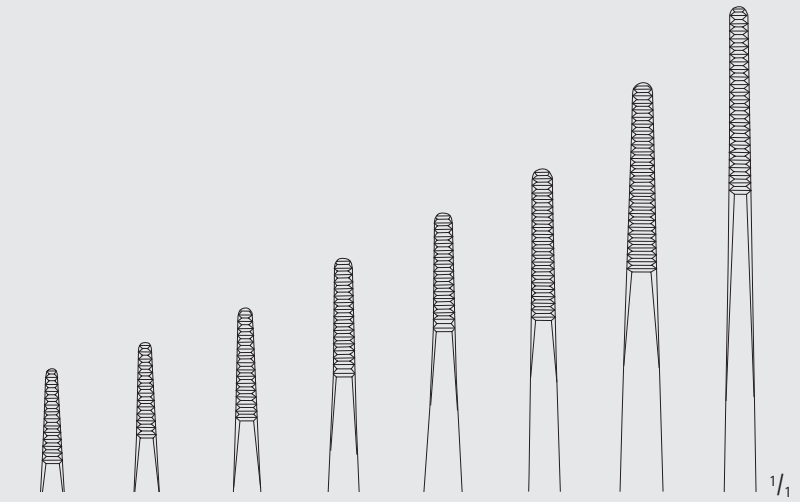




BD043R	BD045R	BD047R	BD049R	BD050R	BD051R	BD052R	BD053R
115 mm	130 mm	145 mm	160 mm	180 mm	200 mm	250 mm	300 mm
4 1/2"	5 1/8"	5 3/4"	6 1/4"	7"	8"	10"	12"

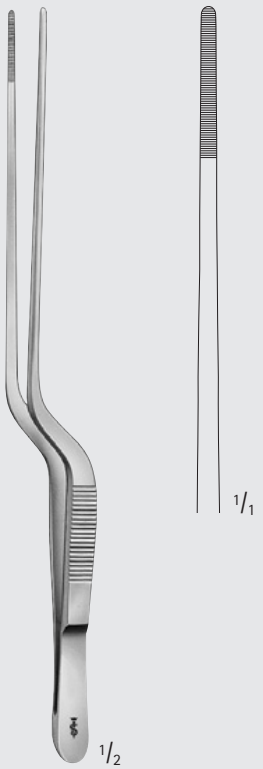
BD043R–BD053R
Standard patterns
Standard-Modelle





BD023R	BD025R	BD027R	BD029R	BD030R	BD031R	BD032R	BD033R
115 mm	130 mm	145 mm	160 mm	180 mm	200 mm	250 mm	305 mm
4 1/2"	5 1/8"	5 3/4"	6 1/4"	7"	8"	10"	12"

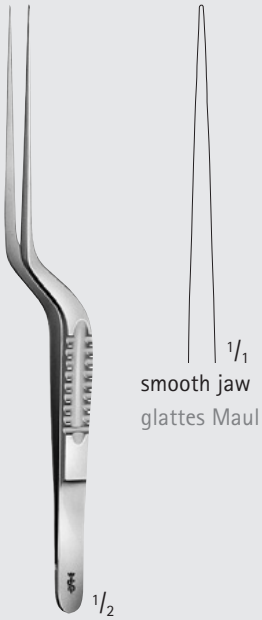
BD023R–BD033R
medium
mittelbreit



GRUENWALD

BD883R

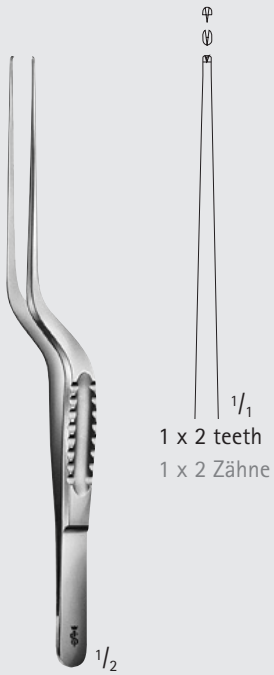
200 mm, 8"



smooth jaw
glattes Maul

BD887R

160 mm, 6 1/4"



1 x 2 teeth
1 x 2 Zähne

BD888R

160 mm, 6 1/4"



smooth jaw
glattes Maul

BD885R

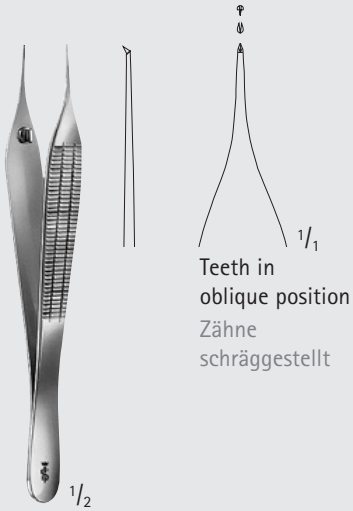
185 mm, 7 1/4"



1 x 2 teeth
1 x 2 Zähne

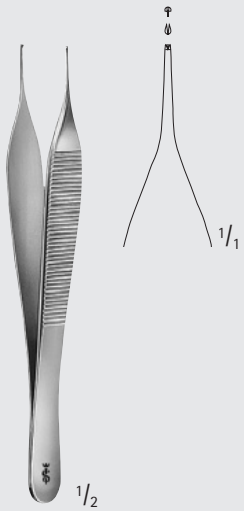
BD886R

200 mm, 8"

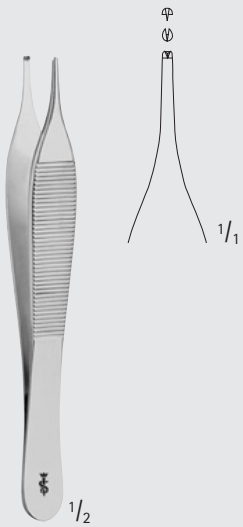


Teeth in oblique position
Zähne schräggestellt

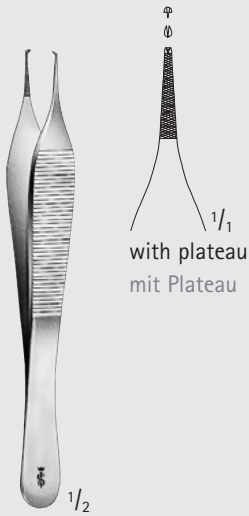
MICRO-ADSON-BIEMER
BD509R
120 mm, 4 3/4"



MICRO-ADSON
BD510R
120 mm, 4 3/4"

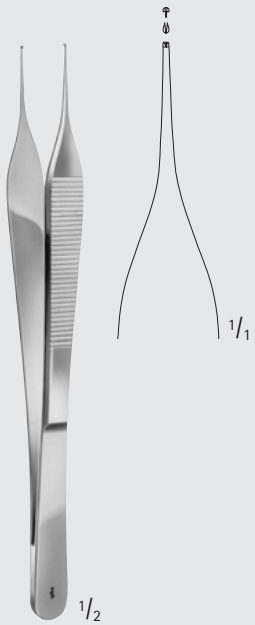


ADSON
BD511R
120 mm, 4 3/4"



with plateau
mit Plateau

ADSON
BD512R
120 mm, 4 3/4"



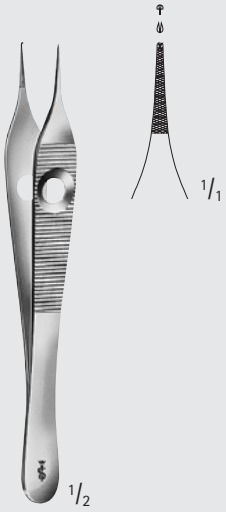
ADSON
BD520R
150 mm, 6"



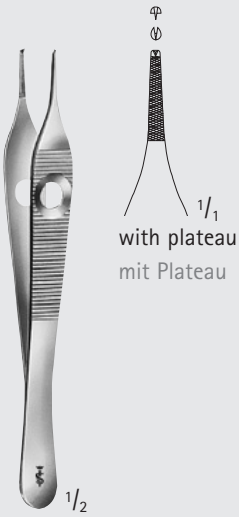
ADSON
BD522R
180 mm, 7"



JEFFERSON
BD523R
180 mm, 7"

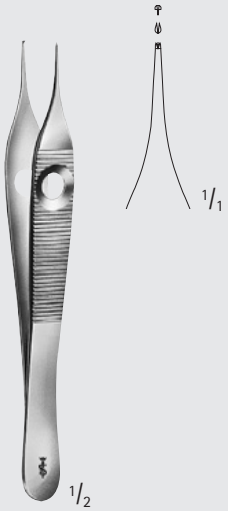


ADSON
BD508R
120 mm, 4 3/4"

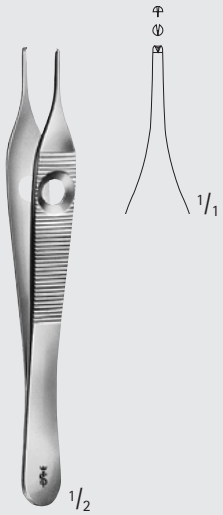


with plateau
mit Plateau

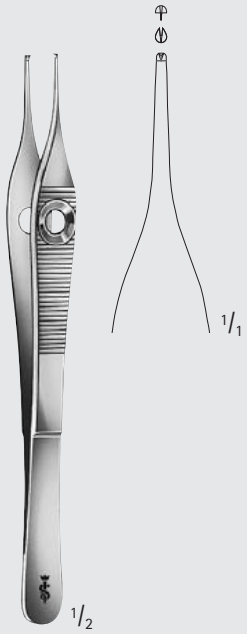
ADSON
BD513R
120 mm, 4 3/4"



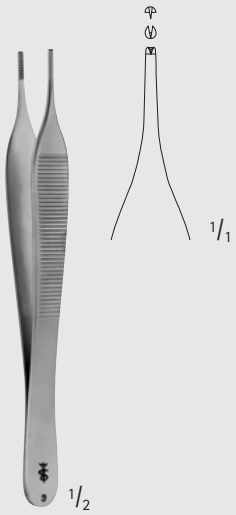
ADSON
BD506R
120 mm, 4 3/4"



ADSON
BD507R
120 mm, 4 3/4"



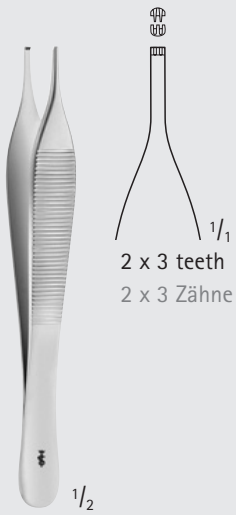
ADSON
BD521R
150 mm, 6"



HUDSON

MB291R

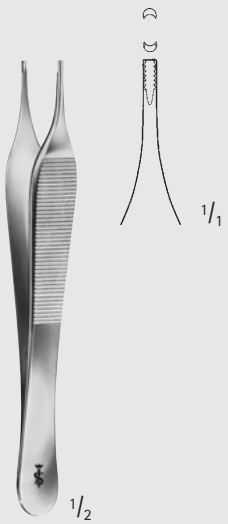
125 mm, 4 7/8"



ADSON

MB454R

120 mm, 4 3/4"



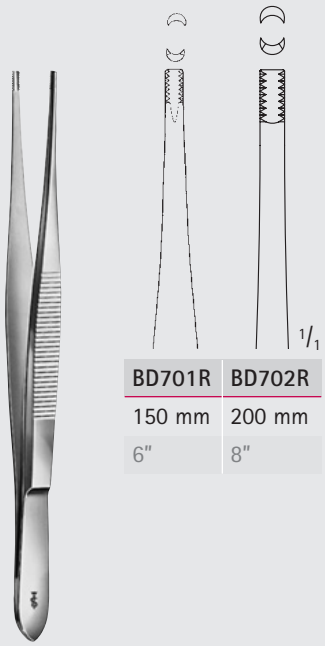
ADSON-BROWN

BD700R

Tissue forceps, sharp

Hautpinzette, scharf

120 mm, 4 3/4"



BD701R	BD702R
150 mm	200 mm
6"	8"

BROWN

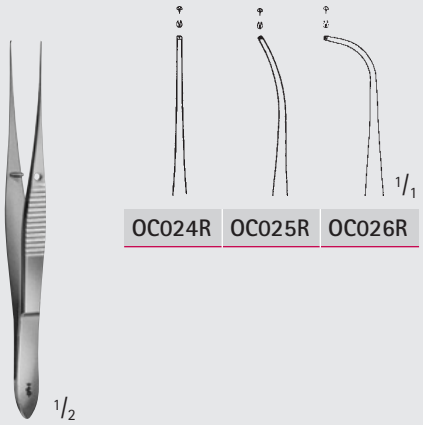
BD701R–BD702R



GRAEFE

OC100R

110 mm, 4 1/2"



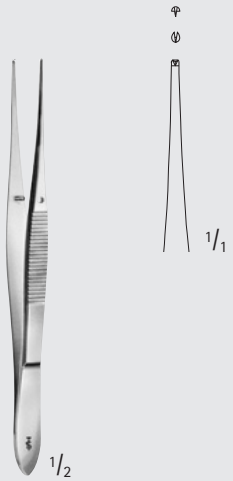
OC024R	OC025R	OC026R

OC024R-OC026R

very delicate

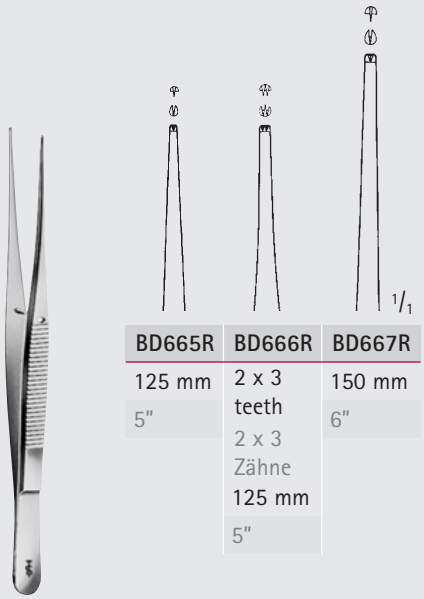
sehr fein

100 mm, 4"



BD501R

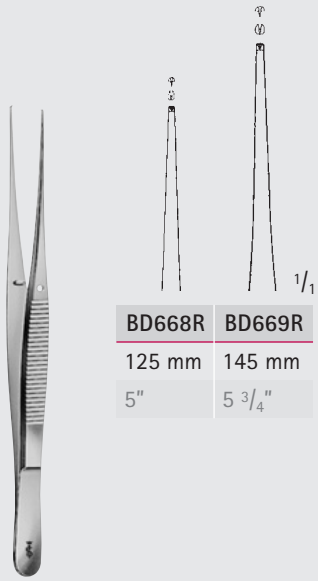
110 mm, 4 3/8"



BD665R	BD666R	BD667R
125 mm 5"	2 x 3 teeth 2 x 3 Zähne 125 mm 5"	150 mm 6"

SEMKEN

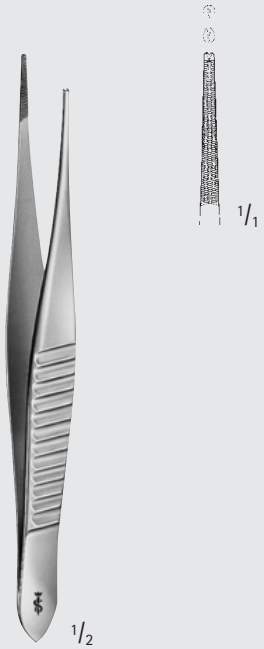
BD665R-BD667R



BD668R	BD669R
125 mm 5"	145 mm 5 3/4"

SEMKEN

BD668R-BD669R



GILLIES

BD660R

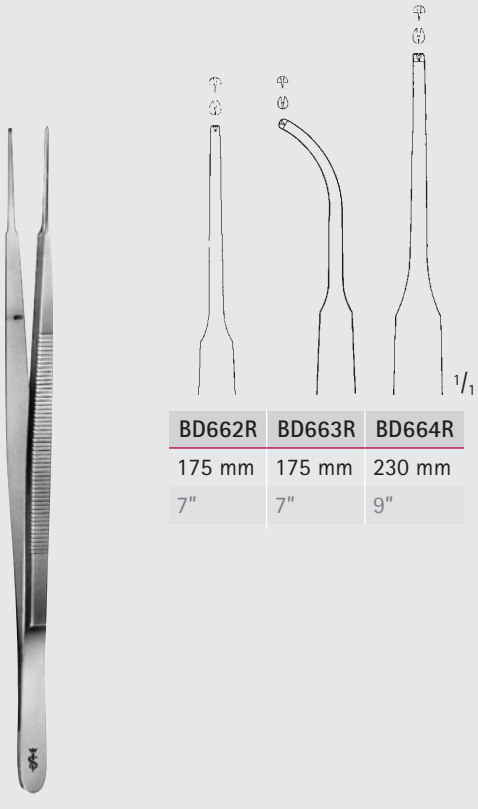
155 mm, 6"



MC INDOE

BD661R

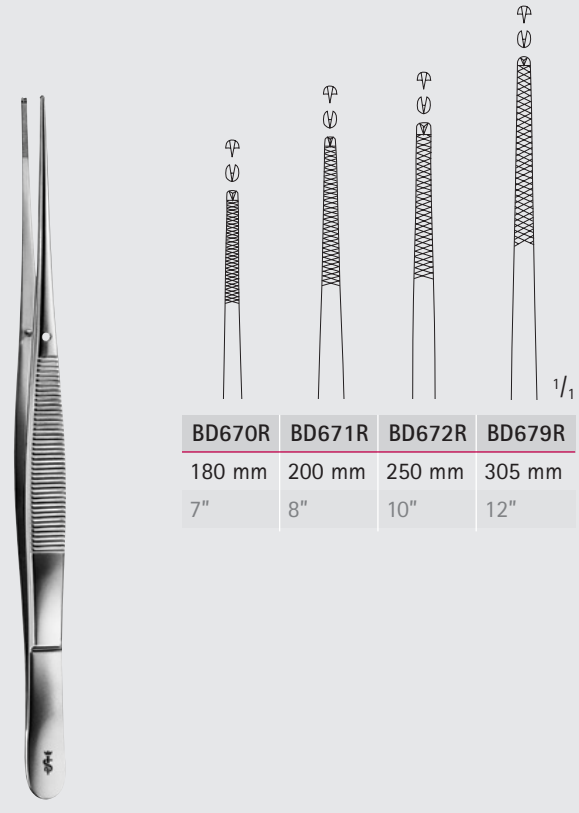
150 mm, 6"



BD662R	BD663R	BD664R
175 mm	175 mm	230 mm
7"	7"	9"

GERALD

BD662R–BD664R

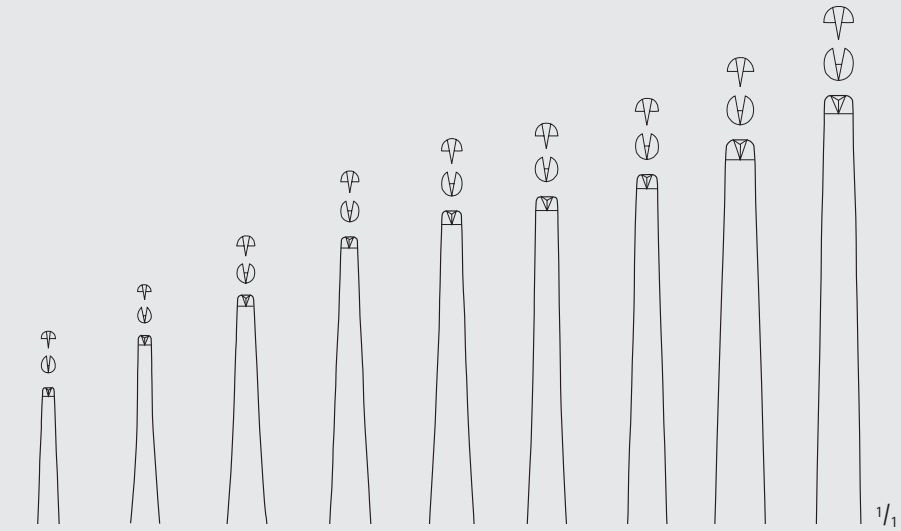


BD670R	BD671R	BD672R	BD679R
180 mm	200 mm	250 mm	305 mm
7"	8"	10"	12"

WAUGH

BD670R–BD679R

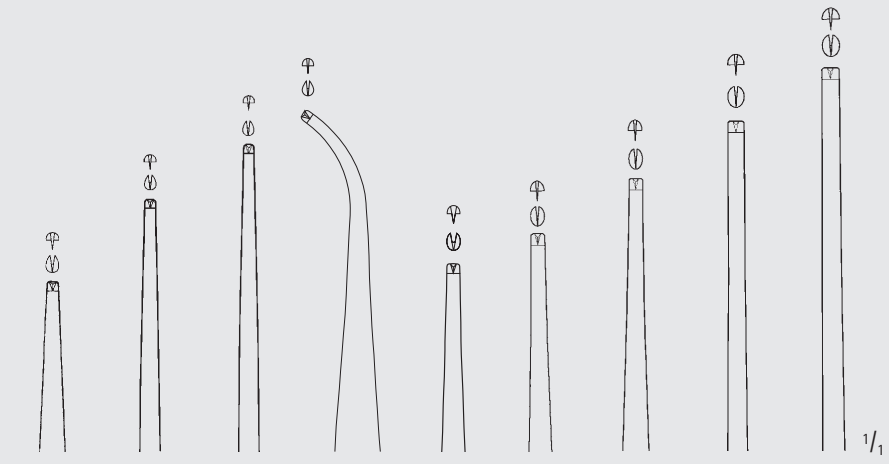




BD552R	BD553R	BD555R	BD557R	BD559R	BD560R	BD561R	BD562R	BD563R
105 mm	115 mm	130 mm	145 mm	160 mm	180 mm	200 mm	250 mm	300 mm
4 1/8"	4 1/2"	5 1/8"	5 3/4"	6 1/4"	7"	8"	10"	12"

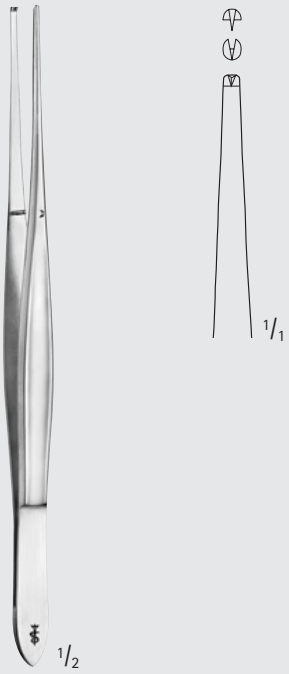
BD552R–BD563R
Standard patterns
Standard-Modelle





BD533R	BD535R	BD537R	BD527R	BD539R	BD540R	BD541R	BD542R	BD543R
115 mm	130 mm	145 mm	145 mm	160 mm	180 mm	200 mm	250 mm	300 mm
4 1/2"	5 1/8"	5 3/4"	5 3/4"	6 1/4"	7"	8"	10"	12"

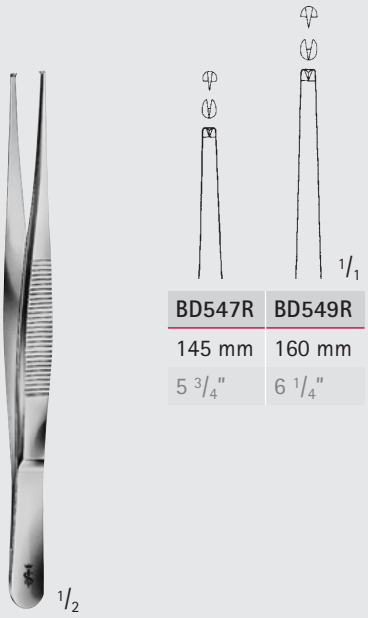
BD527R–BD543R
medium
mittelbreit



CUSHING

MD463

180 mm, 7"

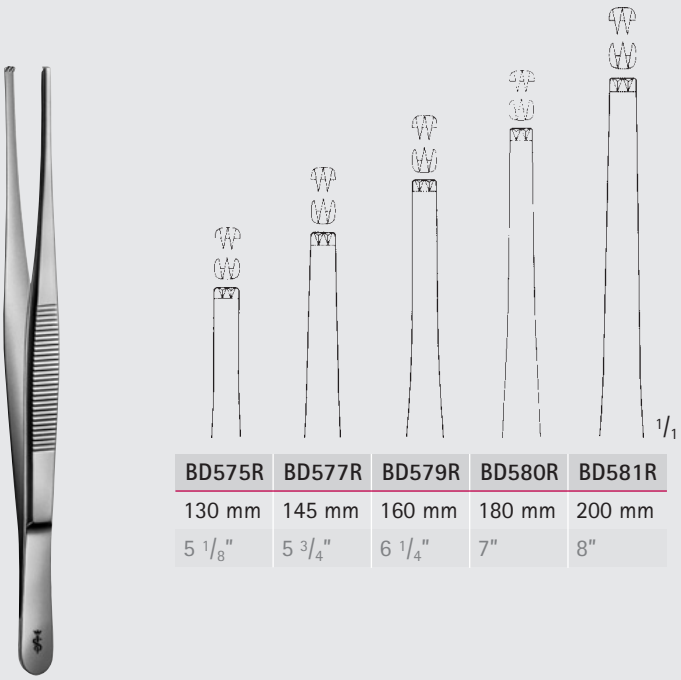


BD547R	BD549R
145 mm	160 mm
5 3/4"	6 1/4"

BD547R–BD549R

stronger as BD537R and BD539R
but finer than BD557R and BD559R

kräftiger als BD537R und BD539R
aber feiner als BD557R und BD559R

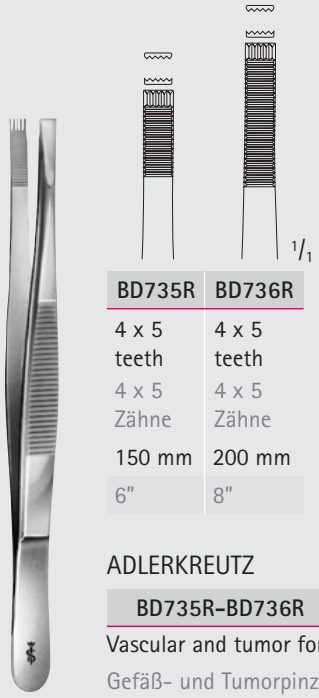


BD575R	BD577R	BD579R	BD580R	BD581R
130 mm	145 mm	160 mm	180 mm	200 mm
5 1/8"	5 3/4"	6 1/4"	7"	8"

BD575R–BD581R

2 x 3 teeth

2 x 3 Zähne



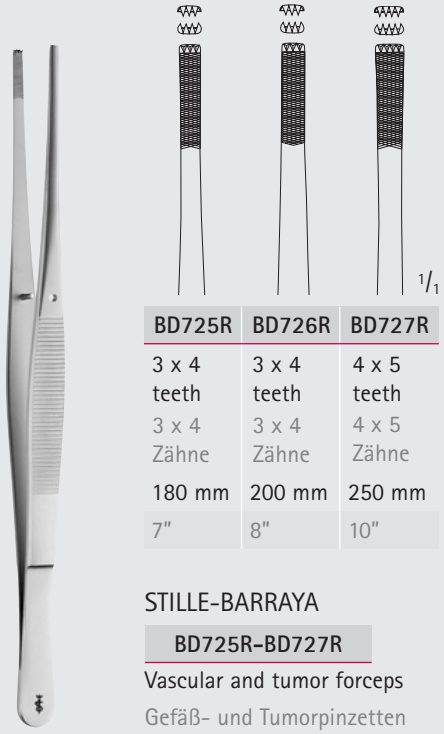
BD735R	BD736R
4 x 5 teeth 4 x 5 Zähne	4 x 5 teeth 4 x 5 Zähne
150 mm	200 mm
6"	8"

ADLERKREUTZ

BD735R–BD736R

Vascular and tumor forceps

Gefäß- und Tumorpinzette



BD725R	BD726R	BD727R
3 x 4 teeth 3 x 4 Zähne	3 x 4 teeth 3 x 4 Zähne	4 x 5 teeth 4 x 5 Zähne
180 mm	200 mm	250 mm
7"	8"	10"

STILLE-BARRAYA

BD725R–BD727R

Vascular and tumor forceps

Gefäß- und Tumorpinzetten



RUSS. MODELL

BD755R

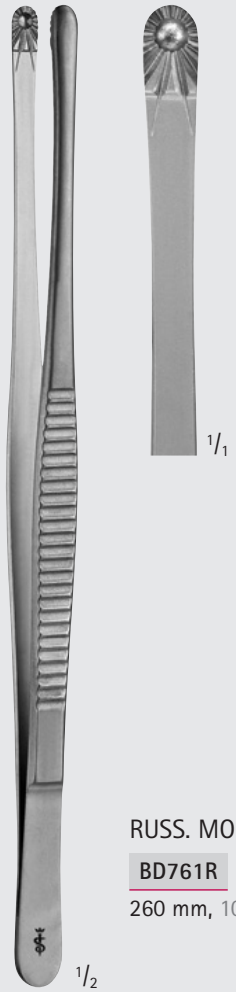
150 mm, 6"



RUSS. MODELL

BD760R

200 mm, 8"



RUSS. MODELL

BD761R

260 mm, 10 1/4"



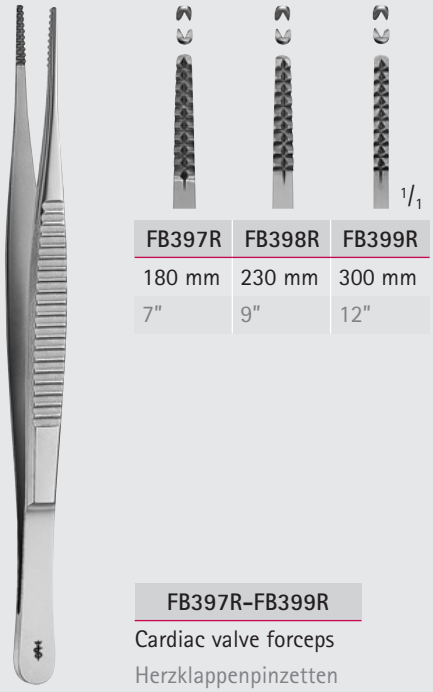
SELMAN

BD750R

155 mm, 6"

Cardiac valve forceps
- This forceps design can be used in any cardiac valve operation
- The special, atraumatic serration ensures a very secure grip and optimal tissue preservation

Herzklappenpinzetten
- Die Konstruktion dieser Pinzetten ist geeignet für jede Herzklappen-OP
- Die spezielle atraumatische Zahnung ist sehr fasssicher und schonend für das Gewebe



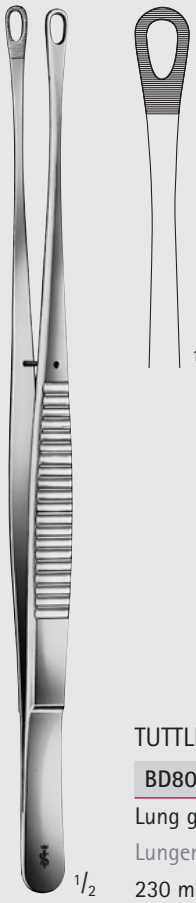
FB397R	FB398R	FB399R
180 mm	230 mm	300 mm
7"	9"	12"

FB397R–FB399R
Cardiac valve forceps
Herzklappenpinzetten



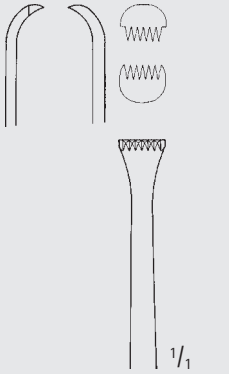
BD710R	BD711R	BD712R
180 mm	205 mm	230 mm
7"	8"	9"

RESANO
BD710R–BD711R
Cardiac valve forceps
Herzklappenpinzetten



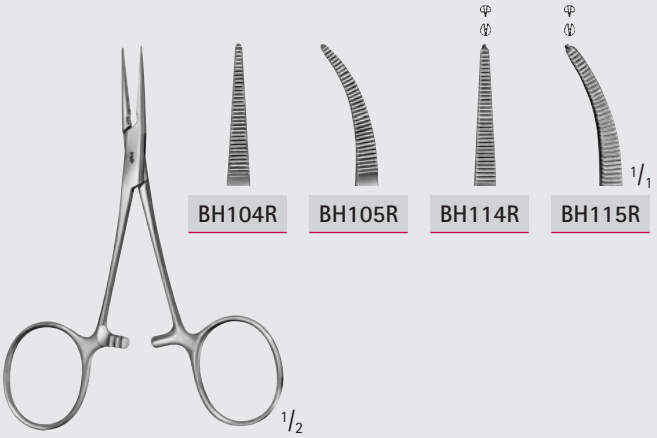
TUTTLE
BD801R
Lung grasping forceps
Lungenfasspinzette
230 mm, 9"





NELSON
BD802R
Lung grasping forceps
Lungenfasspinzette
230 mm, 9"

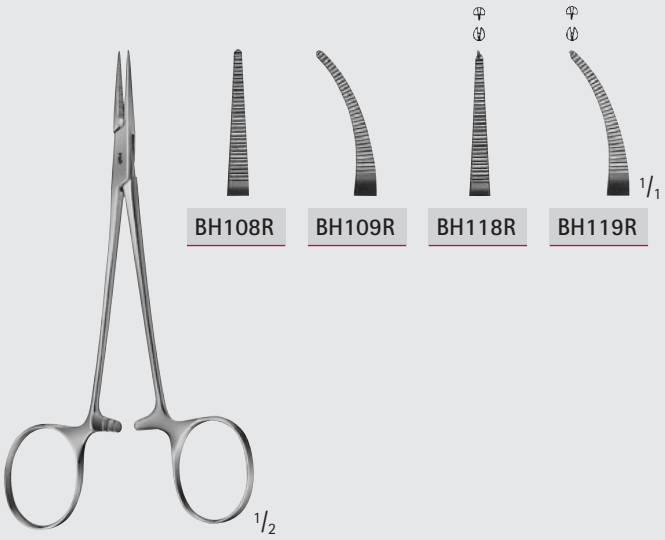
6 x 7 teeth
6 x 7 Zähne



BABY-MOSQUITO (HARTMANN)

BH104R–BH115R

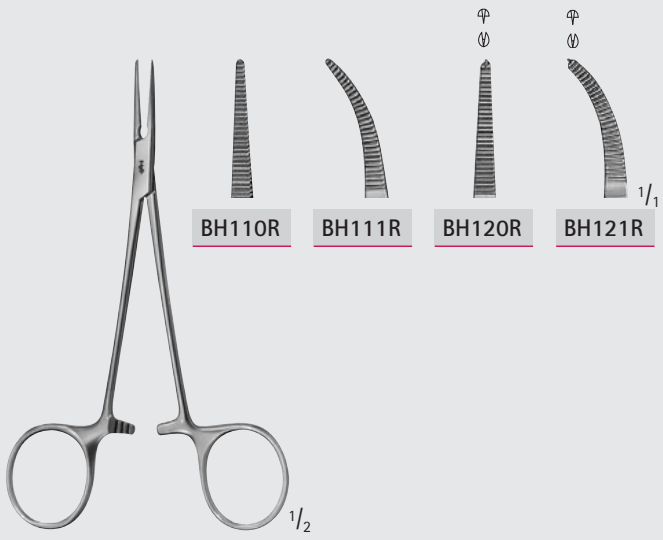
100 mm, 4"



MICRO-HALSTED

BH108R–BH119R

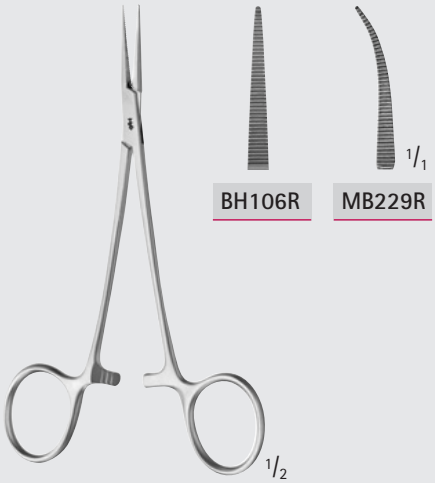
125 mm, 5"



HALSTED-MOSQUITO

BH110R–BH121R

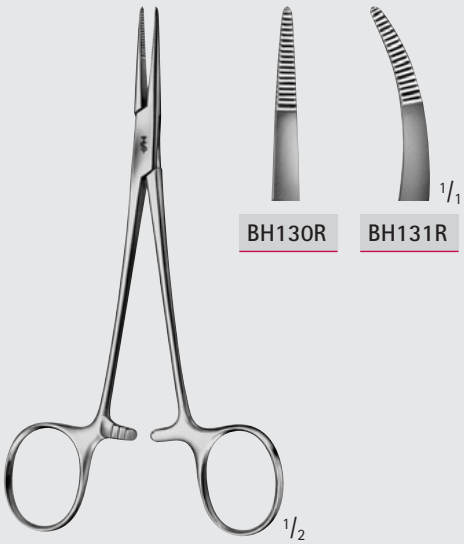
125 mm, 5"



JACOBSON

BH106R–MB229R

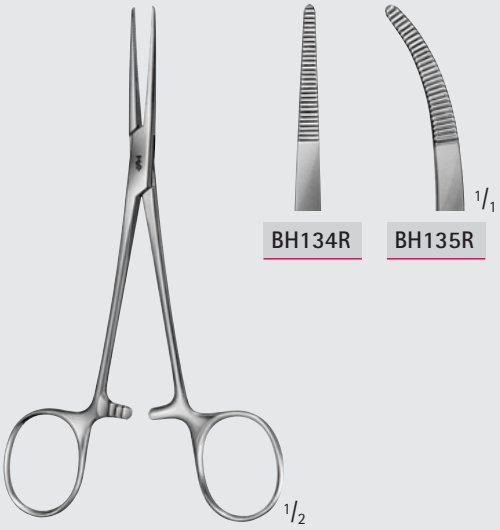
130 mm, 5 1/8"



PROVIDENCE-HOSPITAL

BH130R–BH131R

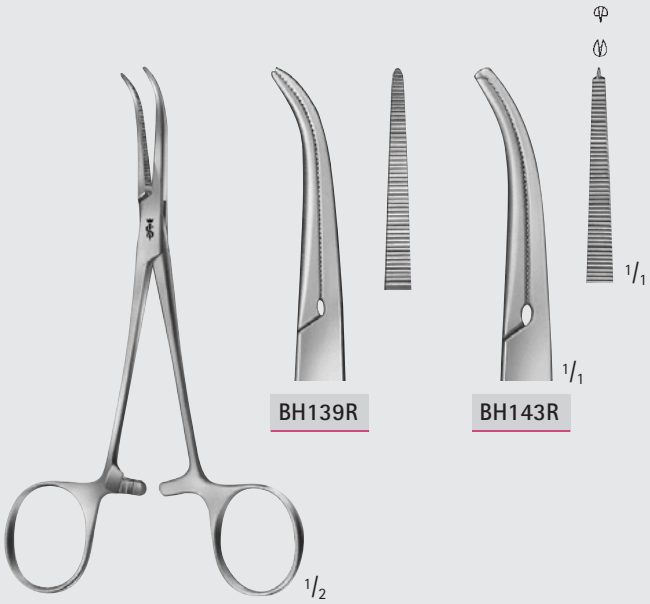
140 mm, 5 1/2"



KELLY

BH134R–BH135R

140 mm, 5 1/2"



DANDY

BH139R–BH143R

curved to side

seitwärts gebogen

140 mm, 5 1/2"

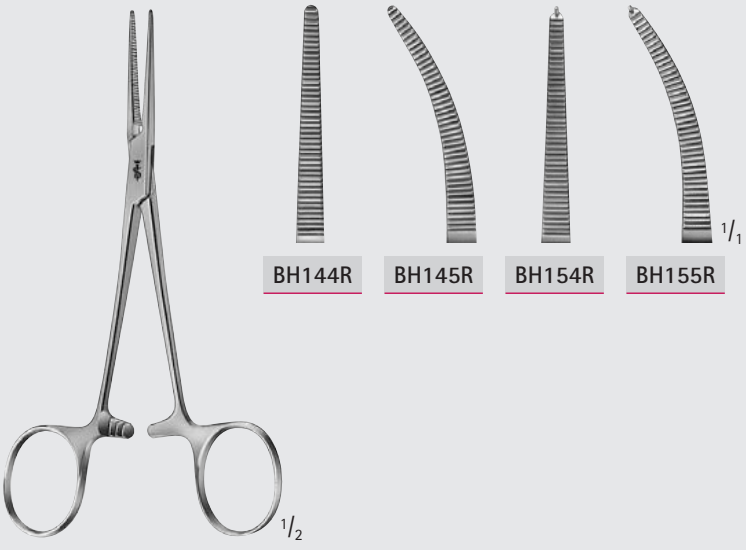


BABY-CRILE

BH140R–BH151R

140 mm, 5 1/2"

BH140R BH141R BH150R BH151R



CRILE

BH144R–BH155R

140 mm, 5 1/2"

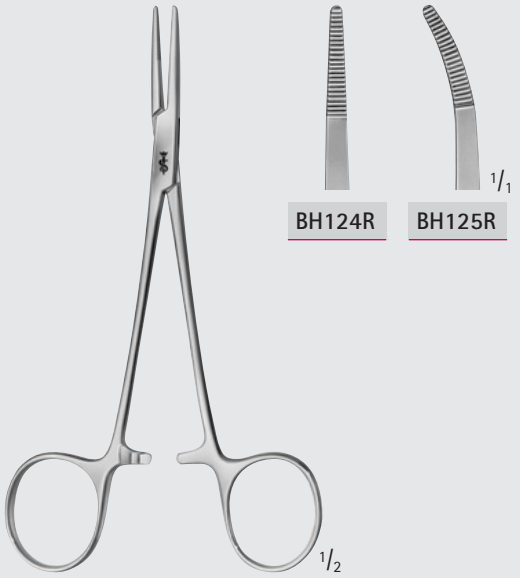
BH144R BH145R BH154R BH155R



DUNHILL

BH123R

125 mm, 5"

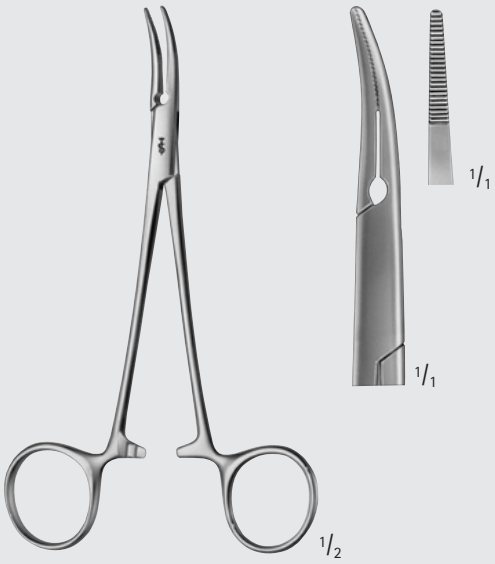


BH124R BH125R

CAIRNS

BH124R–BH125R

150 mm, 6"



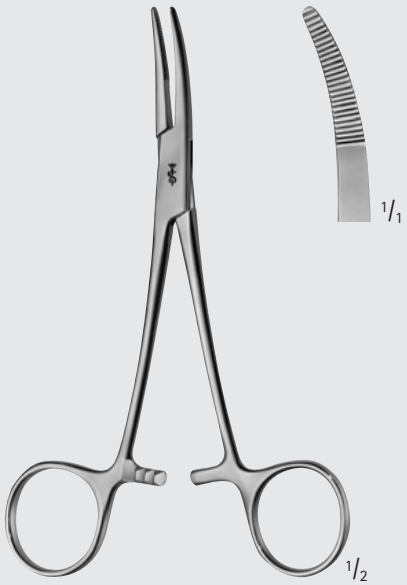
CAIRNS

BH126R

curved to side

seitwärts gebogen

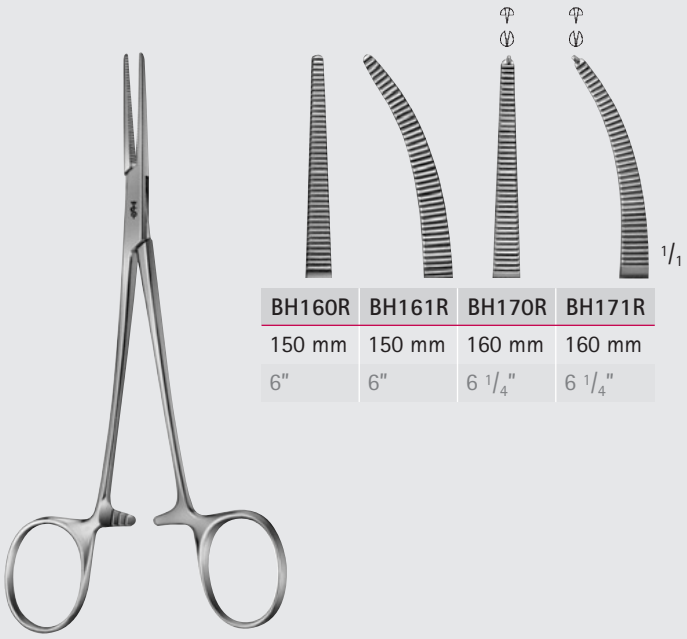
145 mm, 5 3/4"



MOYNIHAN

BH127R

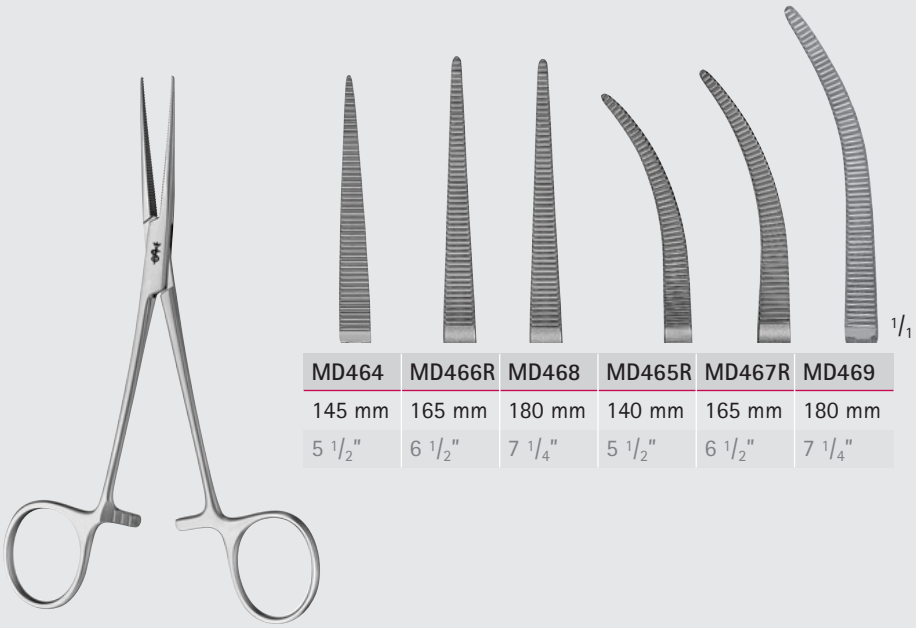
150 mm, 6"



BH160R	BH161R	BH170R	BH171R
150 mm	150 mm	160 mm	160 mm
6"	6"	6 1/4"	6 1/4"

LERICHE

BH160R–BH171R



MD464	MD466R	MD468	MD465R	MD467R	MD469
145 mm	165 mm	180 mm	140 mm	165 mm	180 mm
5 1/2"	6 1/2"	7 1/4"	5 1/2"	6 1/2"	7 1/4"

1/1

COLLER

MD464–MD469



BH164R BH165R

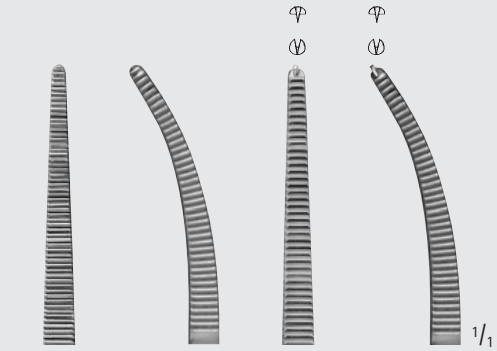
1/1

RANKIN

BH164R–BH165R

160 mm, 6 1/4"





BH166R BH167R BH176R BH177R

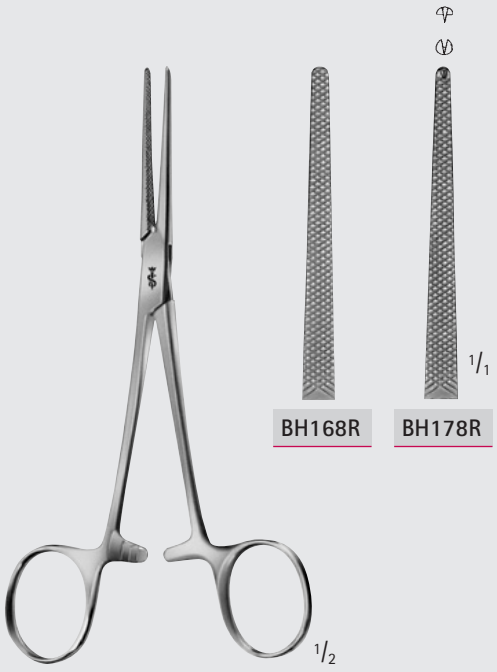
1/1

1/2

CRILE

BH166R–BH177R

160 mm, 6 1/4"



DIXON-LOVELACE

BH168R–BH178R

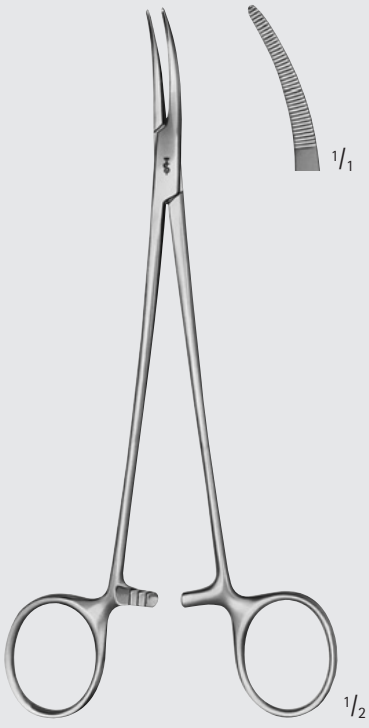
160 mm, 6 1/4"



FUCHSIG

BH198R

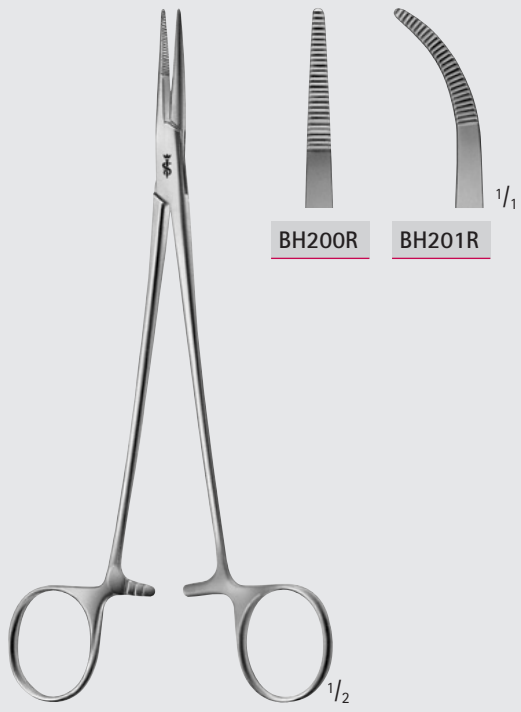
195 mm, 7 3/4"



NISSEN

BH199R

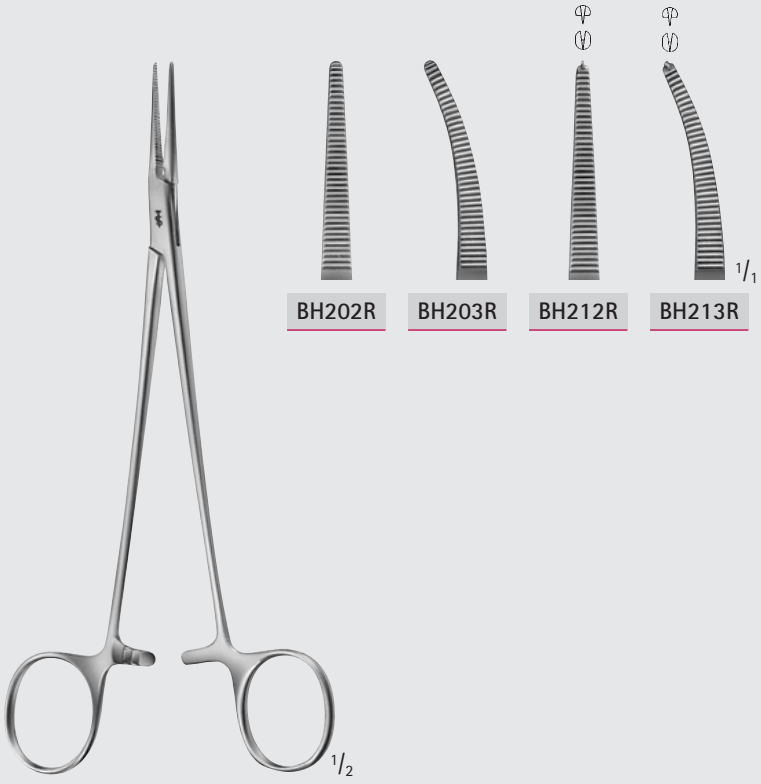
185 mm, 7 1/4"



ADSON

BH200R–BH201R

185 mm, 7 1/4"

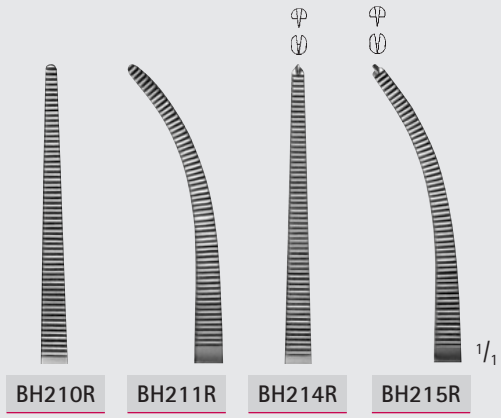


HALSTED

BH202R–BH213R

185 mm, 7 1/4"





BH210R BH211R BH214R BH215R

1/1

1/2

HALSTED-MOSQUITO

BH210R–BH215R

200 mm, 8"



1/1

1/2

JACOBSON

BH187R

190 mm, 7 1/2"



1/1

1/2

ADSON

BH205R

215 mm, 8 1/2"



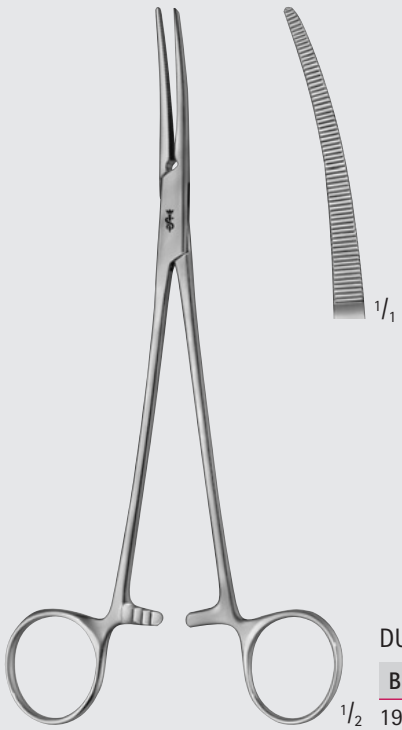
1/1

1/2

FRASER-KELLY (CRILE)

BH183R

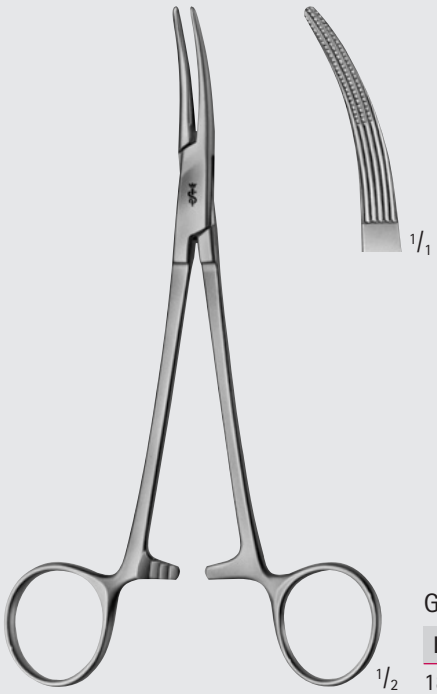
180 mm, 7"



DUNHILL

BH191R

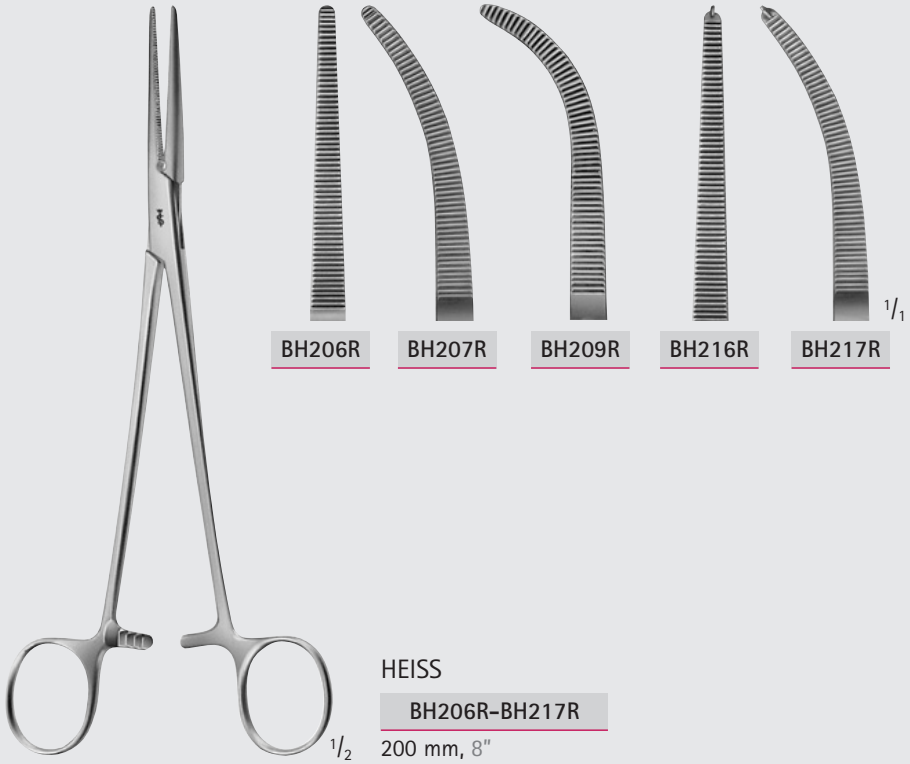
190 mm, 7 1/2"



GREY-TURNER

BH193R

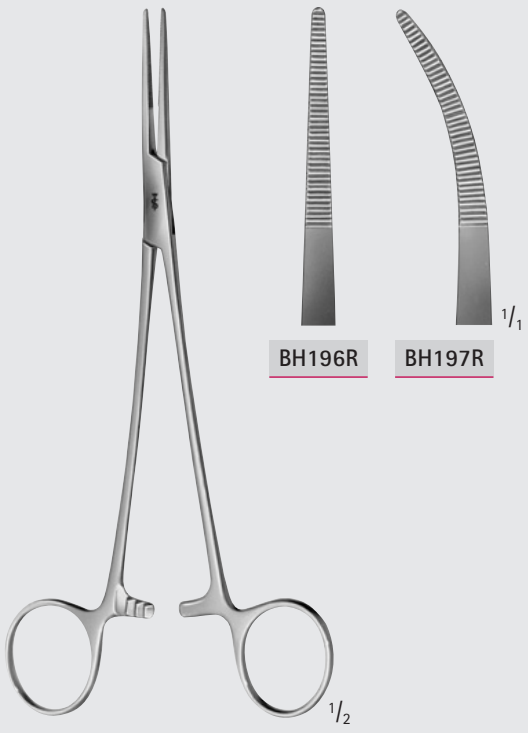
180 mm, 7"



HEISS

BH206R–BH217R

200 mm, 8"



BH196R BH197R

BIRKETT

BH196R–BH197R

185 mm, 7 1/4"



BH228R BH229R BH238R BH239R

BENGOLEA

BH228R–BH239R

245 mm, 9 3/4"



BH224R BH234R

SAROT

BH224R–BH234R

240 mm, 9 1/2"

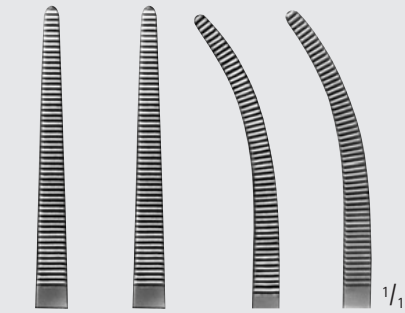


CRAFOORD

BH225R

245 mm, 9 3/4"





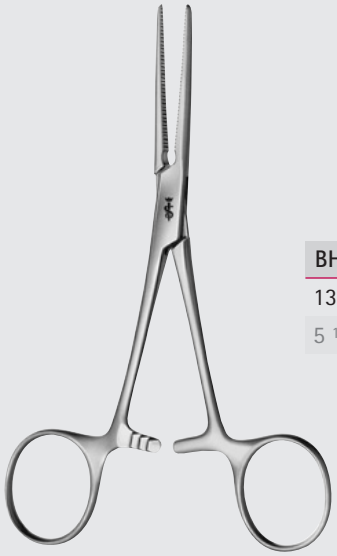
BH412R	BH414R	BH413R	BH415R
130 mm	140 mm	130 mm	140 mm
5 1/8"	5 1/2"	5 1/8"	5 1/2"

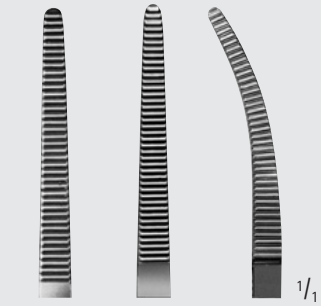
PEAN

BH412R–BH415R

slender type

grazile Form



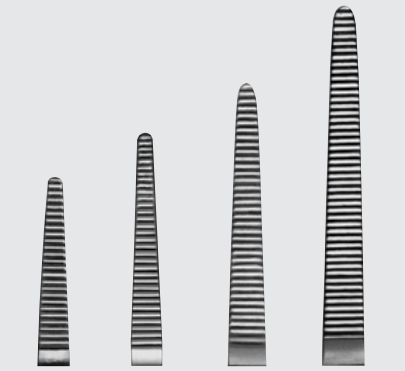


BH422R	BH424R	BH425R
130 mm	140 mm	140 mm
5 1/8"	5 1/2"	5 1/2"

PEAN

BH422R–BH425R

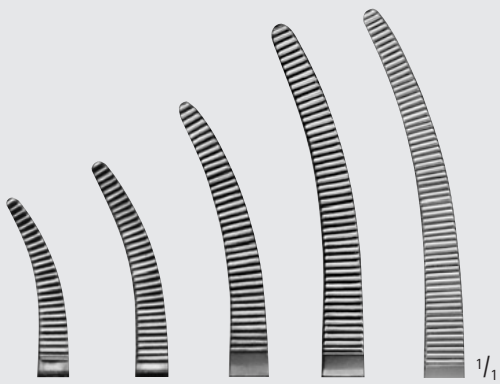




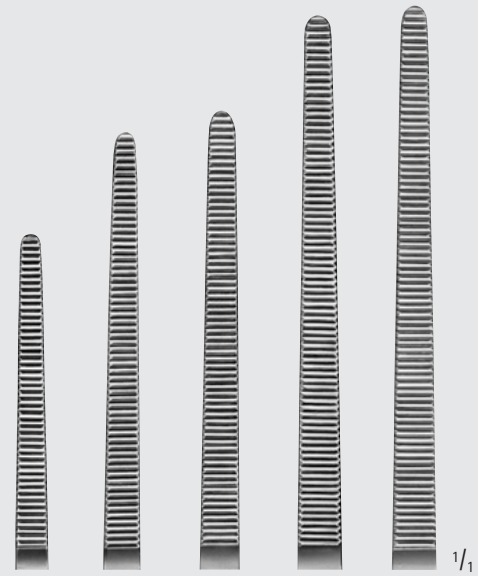
BH332R	BH334R	BH336R	BH338R
130 mm	150 mm	175 mm	200 mm
5 1/8"	6"	7"	8"

SPENCER-WELLS

BH332R–BH361R

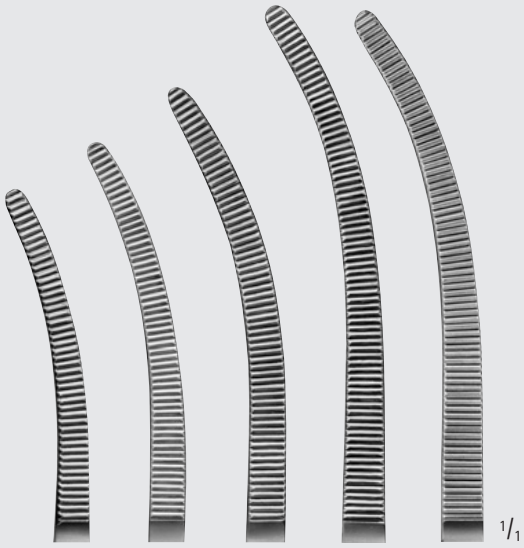


BH333R	BH335R	BH337R	BH339R	BH361R
130 mm	150 mm	175 mm	200 mm	230 mm
5 1/8"	6"	7"	8"	9"



1/1

BH442R	BH444R	BH446R	BH448R	BH450R
160 mm	185 mm	200 mm	225 mm	240 mm
6 1/4"	7 1/4"	8"	9"	9 1/2"



1/1

BH443R	BH445R	BH447R	BH449R	BH451R
160 mm	185 mm	200 mm	225 mm	240 mm
6 1/4"	7 1/4"	8"	9"	9 1/2"



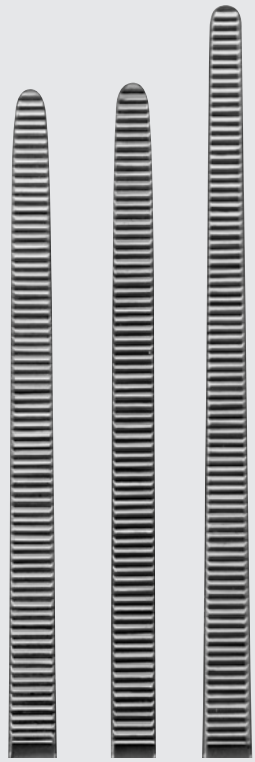
ROCHESTER-PEAN

BH442R–BH451R

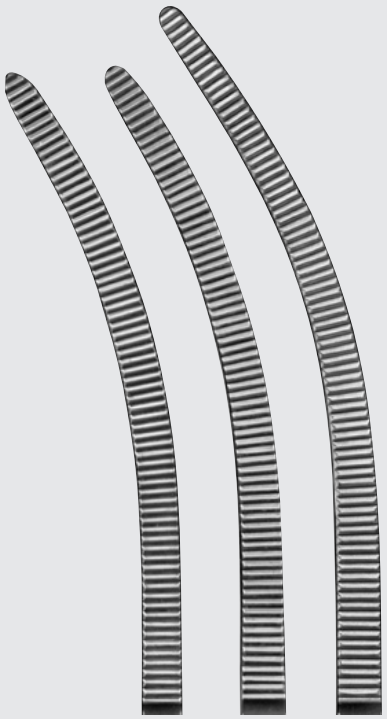


PEAN

BH470R–BH475R

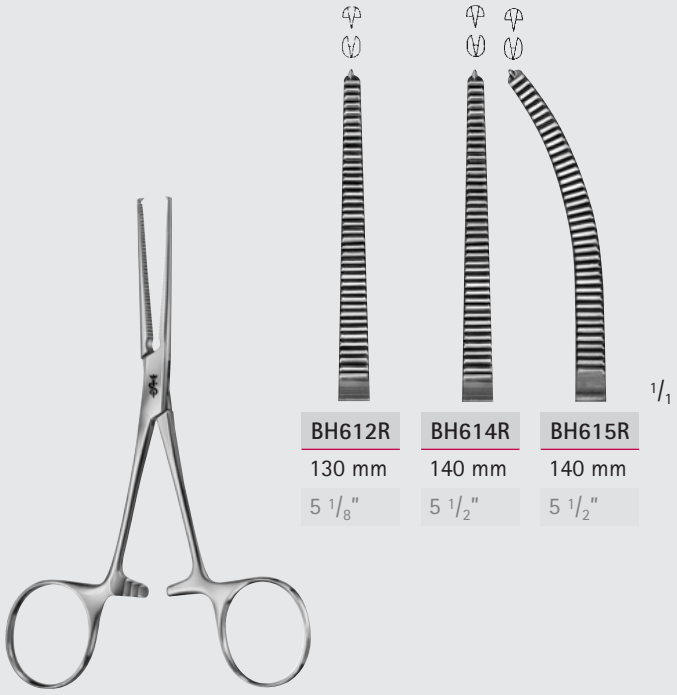


BH470R	BH472R	BH474R
240 mm	260 mm	280 mm
9 1/2"	10 1/4"	11"



1/1

BH471R	BH473R	BH475R
240 mm	260 mm	280 mm
9 1/2"	10 1/4"	11"

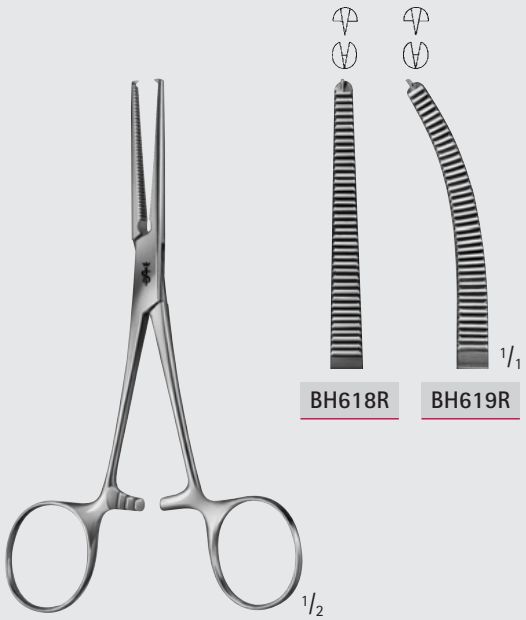


BH612R	BH614R	BH615R
130 mm	140 mm	140 mm
5 1/8"	5 1/2"	5 1/2"

1/1

KOCHER

BH612R–BH615R



BH618R BH619R

1/1

1/2

ROCHESTER-OCHSNER

BH618R–BH619R

140 mm, 5 1/2"



BH630R BH631R

1/1

1/2

KOCHER

BH630R–BH631R

150 mm, 6"



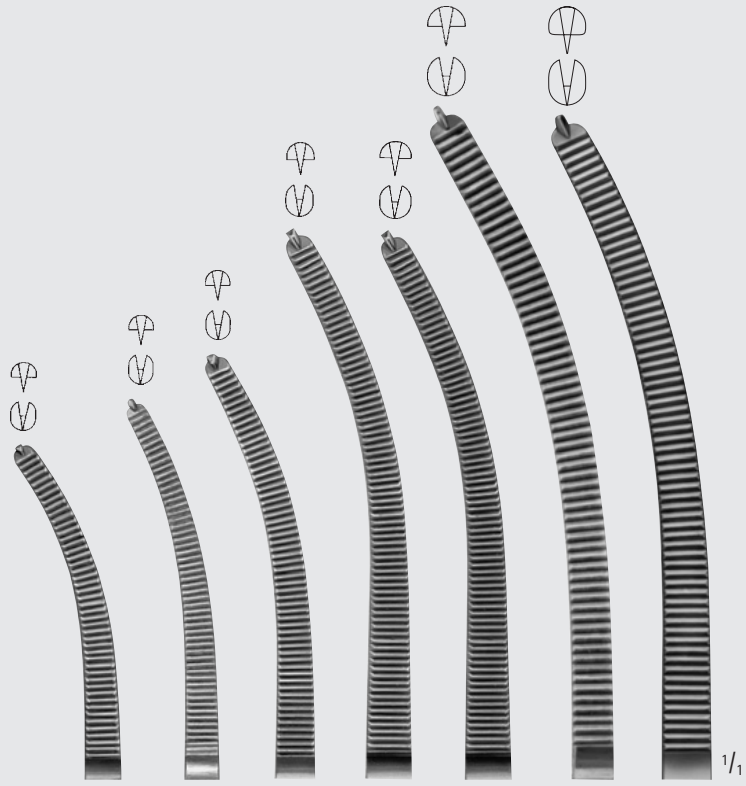
1/1

BH642R	BH644R	BH646R	BH648R	BH650R	BH652R	BH654R
160 mm	185 mm	200 mm	225 mm	240 mm	260 mm	280 mm
6 1/4"	7 1/4"	8"	9"	9 1/2"	10 1/4"	11"



KOCHER-OCHSNER

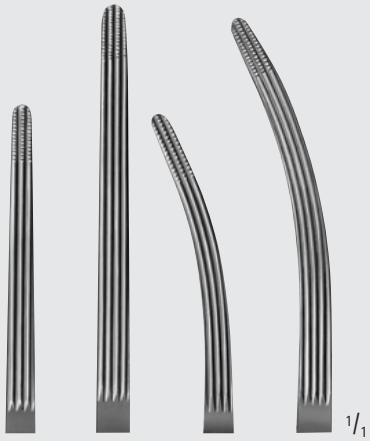
BH642R–BH655R



1/1

BH643R	BH645R	BH647R	BH649R	BH651R	BH653R	BH655R
160 mm	185 mm	200 mm	225 mm	240 mm	260 mm	280 mm
6 1/4"	7 1/4"	8"	9"	9 1/2"	10 1/4"	11"





BH800R	BH804R	BH801R	BH805R
160 mm	200 mm	160 mm	200 mm
6 1/4"	8"	6 1/4"	8"

ROCHESTER-CARMALT

BH800R–BH805R





BH807R	BH808R
	1 x 2 teeth
	1 x 2 Zähne

FICKLING

BH807R–BH808R

180 mm, 7"



ROBERTS

BH814R

225 mm, 9"



ROBERTS

BH812R–BH813R

250 mm, 10"



SAROT

BH226R

250 mm, 9 3/4"

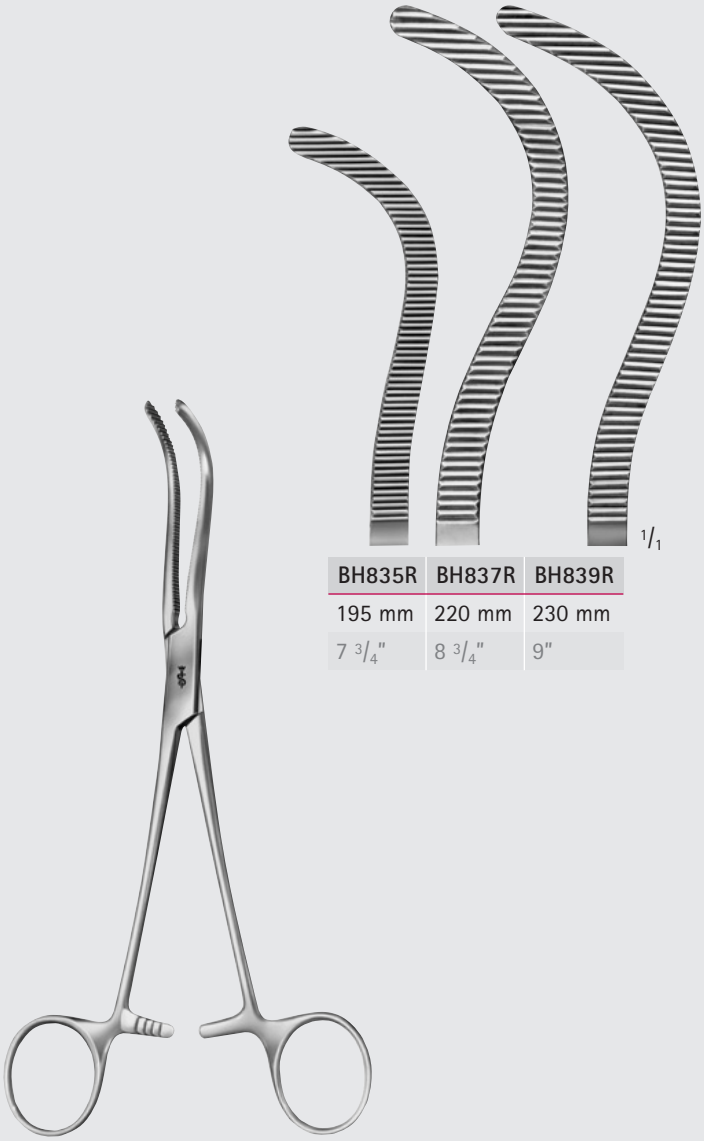


1/1

BH831R	BH833R
230 mm	240 mm
9"	9 1/2"

MOYNIHAN

BH831R–BH833R



1/1

BH835R	BH837R	BH839R
195 mm	220 mm	230 mm
7 3/4"	8 3/4"	9"

PEAN

BH835R–BH839R



BH957R BH959R

SCHNIDT

BH957R–BH959R

185 mm, 7 1/4"



BH961R BH963R

SCHNIDT

BH961R–BH963R

185 mm, 7 1/4"

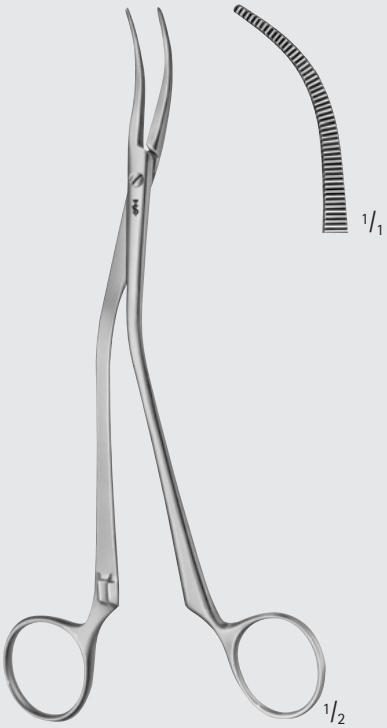


BH951R BH952R

NEGUS

BH951R–BH952R

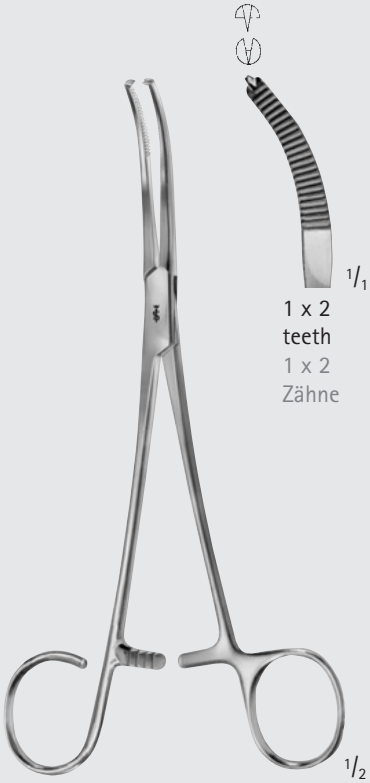
190 mm, 7 1/2"



WILSON

BH965R

190 mm, 7 1/2"



1 x 2 teeth
1 x 2 Zähne

MIKULICZ

BH949R

185 mm, 7 1/4"



smooth jaw
glattes Maul

BJ002R

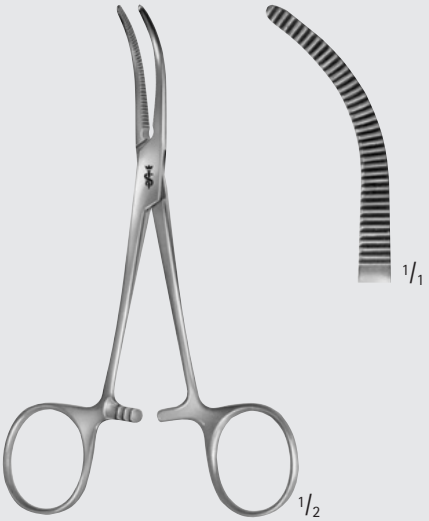
Ligature forceps, straight
Ligaturklemme, gerade
95 mm, 3 3/4"



MICRO-ADSON

BJ008R

140 mm, 5 1/2"



BABY-OVERHOLT

BJ009R

135 mm, 5 1/4"



BJ011R	BJ012R
140 mm	180 mm
5 1/2"	7"

BABY-MIXTER

BJ011R–BJ012R



BJ013R	BJ014R
140 mm	180 mm
5 1/2"	7"

BABY-ADSON

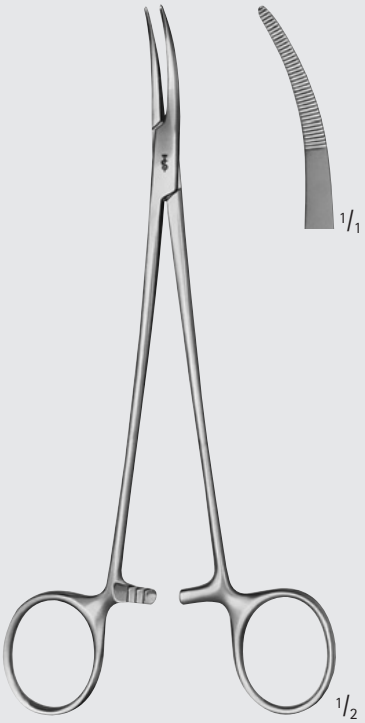
BJ013R–BJ014R





MD569	MD570R
140 mm	180 mm
5 1/2"	7"

MD569–MD570R

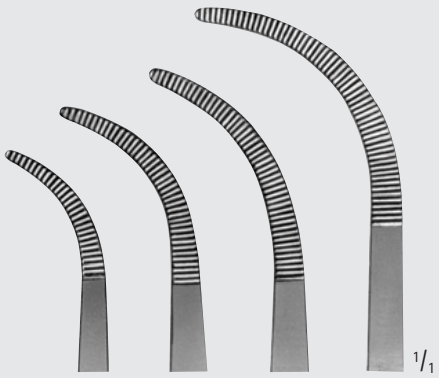


NISSEN

BH199R

185 mm, 7 1/4"



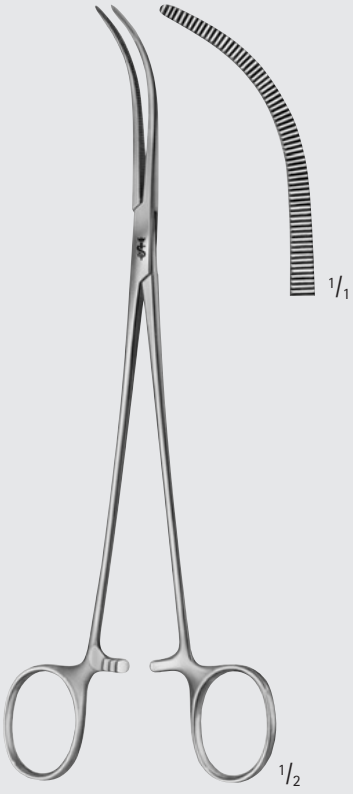


BJ015R	BJ016R	BJ017R	BJ018R
185 mm	210 mm	215 mm	220 mm
7 1/4"	8 1/4"	8 1/2"	8 3/4"

BJ015R–BJ018R

S-shaped, delicate

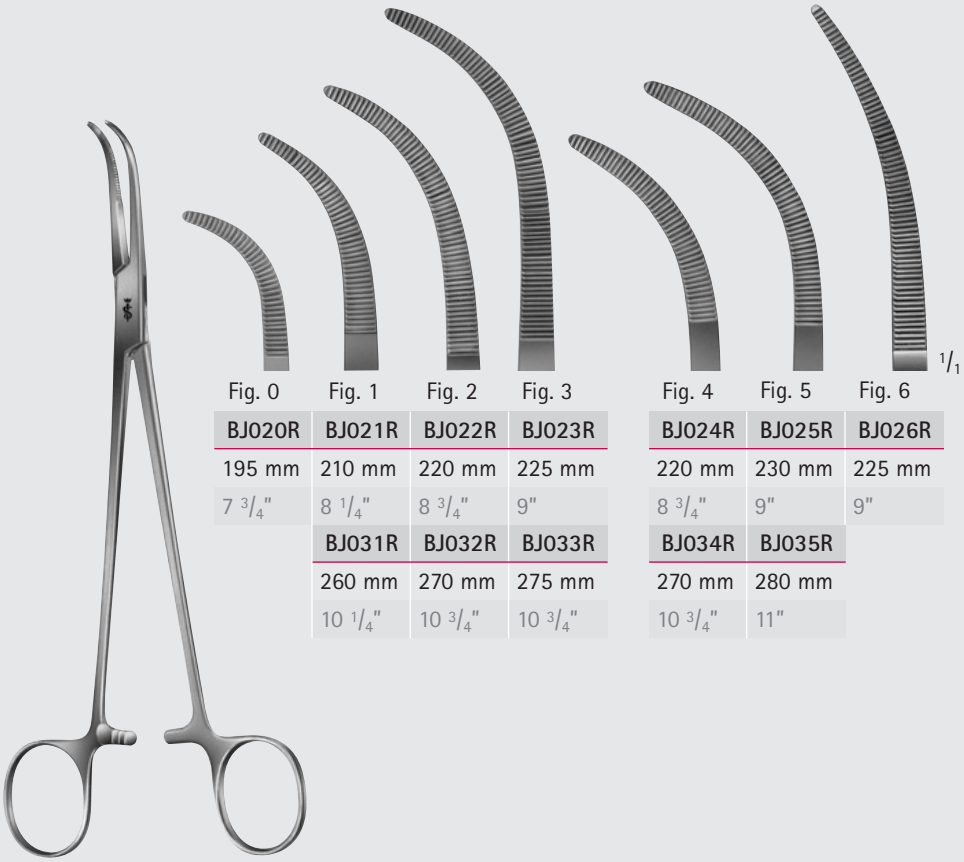
S-förmig gebogen, grazil



OVERHOLT-MIXTER

BJ019R

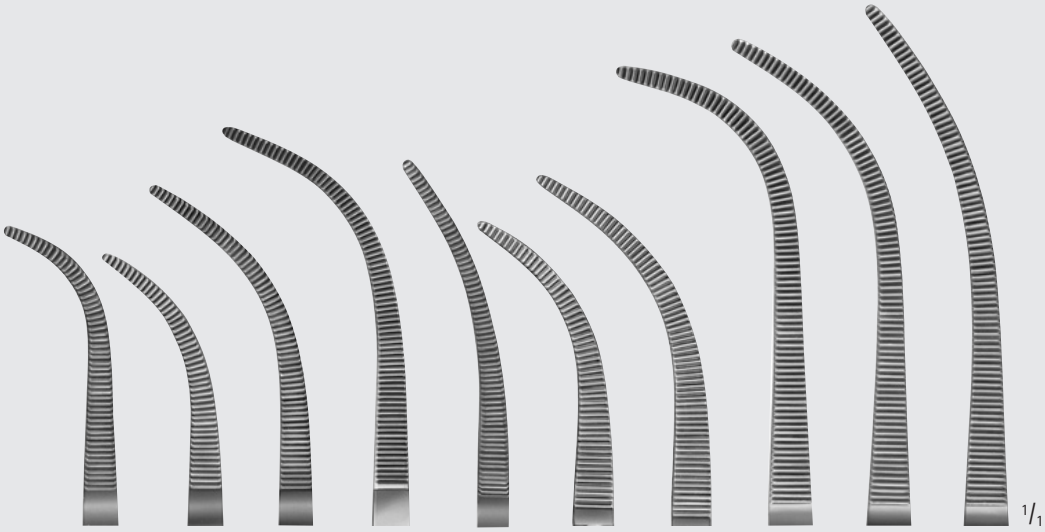
205 mm, 8"



OVERHOLT-GEISSENDOERFER

BJ020R–BJ035R

Fig. 0	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6
BJ020R	**BJ021R**	**BJ022R**	**BJ023R**	**BJ024R**	**BJ025R**	**BJ026R**
195 mm	210 mm	220 mm	225 mm	220 mm	230 mm	225 mm
7 3/4"	8 1/4"	8 3/4"	9"	8 3/4"	9"	9"
	BJ031R	**BJ032R**	**BJ033R**	**BJ034R**	**BJ035R**	
	260 mm	270 mm	275 mm	270 mm	280 mm	
	10 1/4"	10 3/4"	10 3/4"	10 3/4"	11"	



1/1

Fig. 0	Fig. 1	Fig. 2	Fig. 3	Fig. 6	Fig. 1	Fig. 4	Fig. 0	Fig. 1	Fig. 6
BJ080R	**BJ081R**	**BJ082R**	**BJ083R**	**BJ086R**	**BJ111R**	**BJ114R**	**BJ090R**	**BJ091R**	**BJ096R**
215 mm	210 mm	220 mm	225 mm	225 mm	270 mm	270 mm	295 mm	295 mm	300 mm
8 1/2"	8 1/4"	8 3/4"	9"	9"	10 3/4"	10 3/4"	11 3/4"	11 3/4"	12"



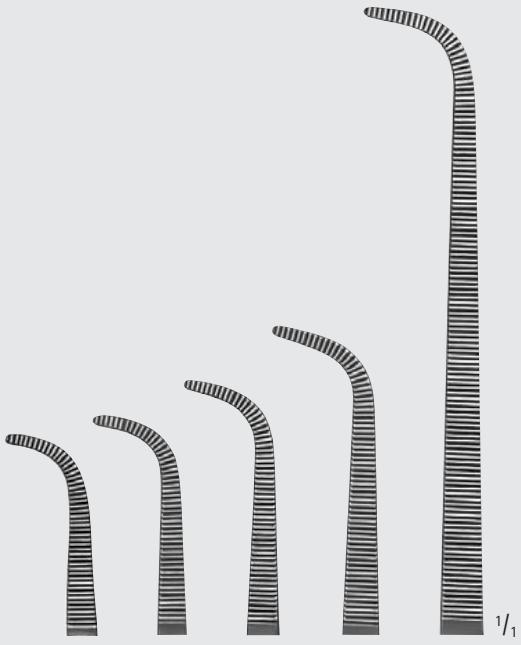
OVERHOLT

BJ080R-BJ114R

delicate pattern

feine Ausführung





BJ100R	BJ102R	BJ103R	BJ104R	BJ106R
130 mm	180 mm	200 mm	230 mm	280 mm
5 1/8"	7"	8"	9"	11"

GEMINI

BJ100R–BJ106R



MIXTER-O'SHAUGNESSY
BJ050R
190 mm, 7 1/2"



O'SHAUGNESSY
BJ067R
220 mm, 8 3/4"

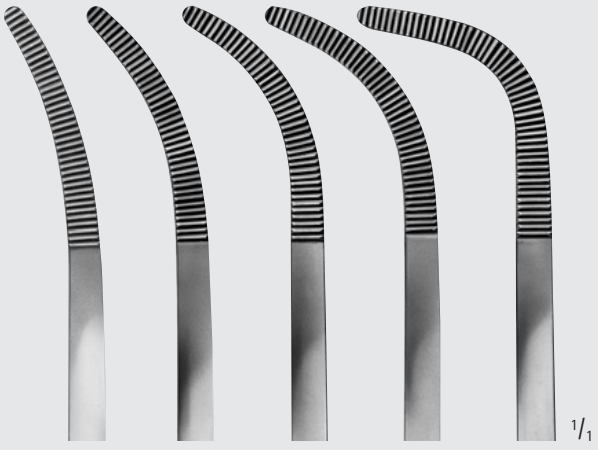


HEISS
BH209R
195 mm, 7 3/4"



WIKSTROEM
BJ051R
205 mm, 8"



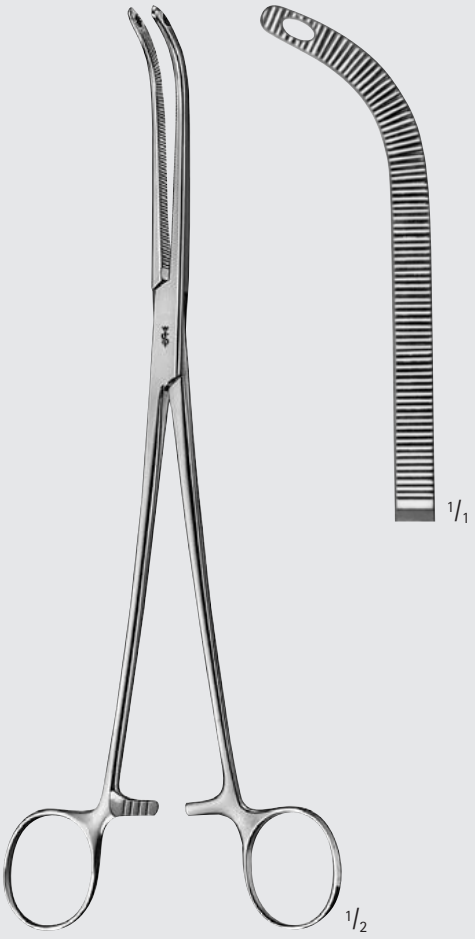


BJ041R BJ042R BJ043R BJ044R BJ045R

RUMEL

BJ041R–BJ045R

240 mm, 9 1/2"



FINOCHIETTO

BJ052R

245 mm, 9 3/4"



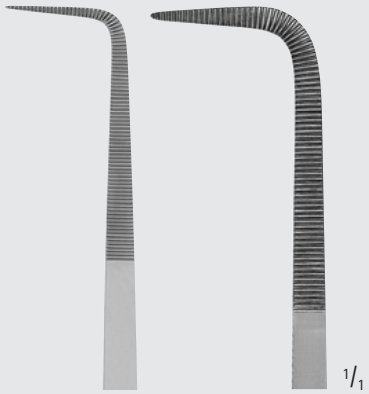
1/1

BJ057R	BJ058R	BJ059R
200 mm	245 mm	275 mm
8"	9 3/4"	10 3/4"

KANTROWITZ

BJ057R–BJ059R





1/1

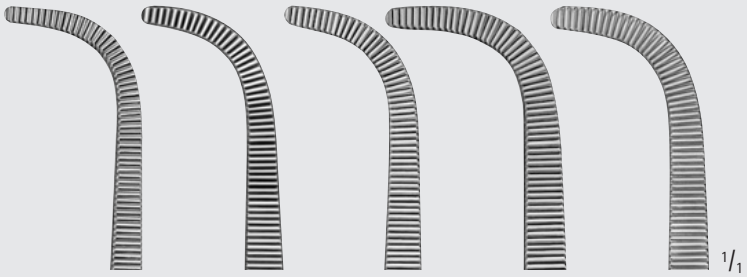
BJ029R	BJ110R
extra delicate	delicate
extra fein	fein

BARRÉ

BJ029R–BJ110R

280 mm, 11"





1/1

BJ120R	BJ121R	BJ122R	BJ123R	BJ124R
150 mm	180 mm	200 mm	230 mm	255 mm
6"	7"	8"	9"	10"

O'SHAUGHNESSY

BJ120R–BJ124R





BJ037R	BJ038R	BJ039R
145 mm	185 mm	235 mm
5 3/4"	7 1/4"	9 1/4"

BJ037R–BJ039R
delicate
fein

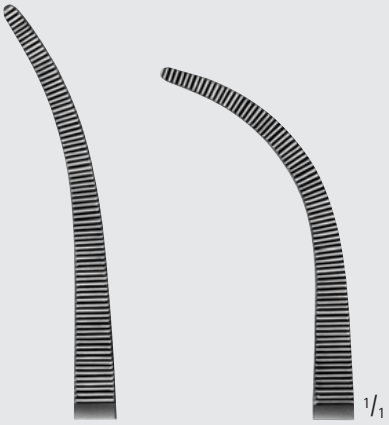


MIXTER
BJ055R
230 mm, 9"



LAWRENCE
BJ070R
270 mm, 10 3/4"





BJ047R	BJ048R
300 mm	290 mm
12"	11 1/2"

ZENKER

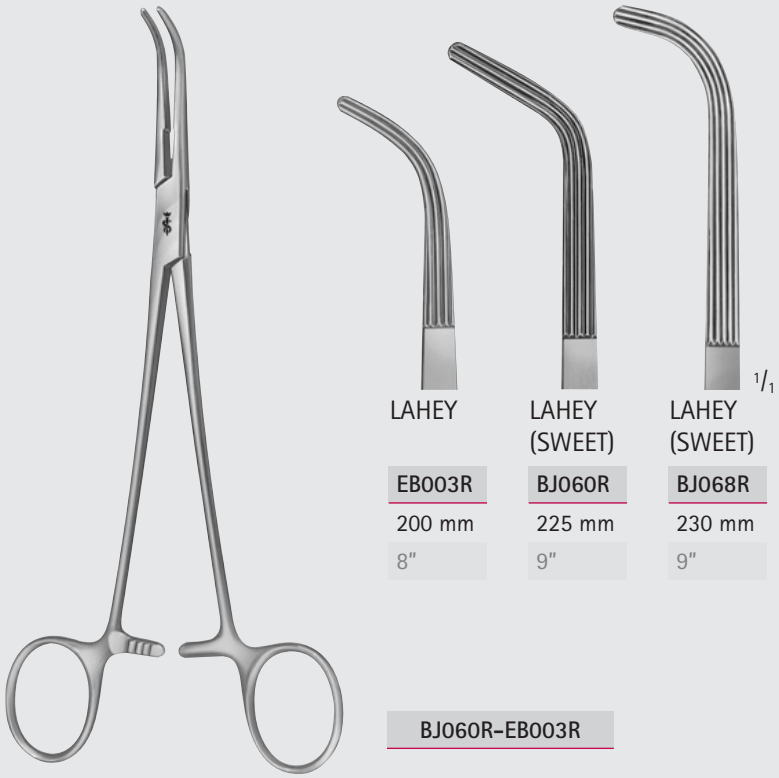
BJ047R–BJ048R



LOWER

EB001R

180 mm, 7"



LAHEY	LAHEY (SWEET)	LAHEY (SWEET)
EB003R	BJ060R	BJ068R
200 mm	225 mm	230 mm
8"	9"	9"

BJ060R-EB003R

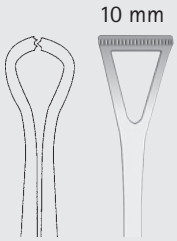


BJ061R	BJ062R	BJ073R
220 mm	250 mm	290 mm
8 3/4"	10"	11 1/2"

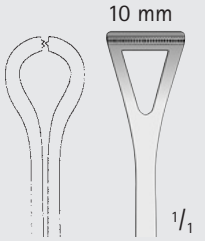
MIXTER

BJ061R-BJ073R





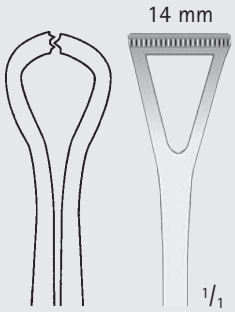
EA050R
160 mm
6 1/4"



EA052R
215 mm
8 1/2"

BABCOCK
EA050R-EA052R





BABCOCK
FB936R
220 mm, 8 3/4"





BABCOCK
MD470
240 mm, 9 1/2"

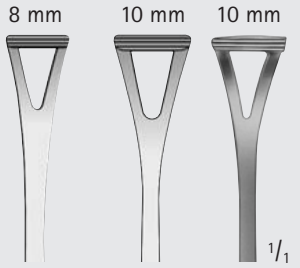


BABCOCK

EA030R

155 mm, 6"





EA031R	EA032R	EA033R
170 mm	215 mm	200 mm
6 3/4"	8 1/2"	8"

BABCOCK

EA031R–EA033R



BABCOCK

FB934R

220 mm, 8 3/4"



KLEINE

FB281R

225 mm, 9"

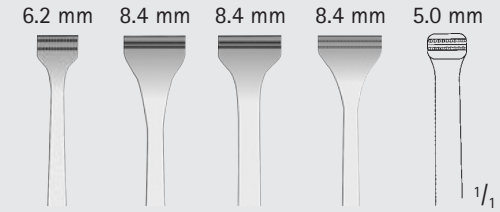
Myocardium grasping forceps

- Is used for holding the heart muscle (myocardium) during cardiac surgery (e.g. valve or bypass operations)
- It securely grasps the heart muscle without damaging the tissue
- The special characteristics of the new grasping forceps are
  - The jaws do not touch when the lock is closed.
    Result: The strong myocardial tissue is grasped safely and atraumatically
  - The extended lock with its early trigger point offers more effective fixation of thick tissue

Mykoard Fasszange

- Dient der Fixierung des Herzmuskels während einer Herzklappen- oder Bypass-OP
- Sie fasst den Herzmuskel sicher und verletzt das Gewebe dabei nicht
- Besonderheiten der Fasszange:
  - Maul berührt sich bei geschlossener der Sperre nicht. Somit besteht die Möglichkeit, das kräftige Herzmuskelgewebe sicher und atraumatisch zu fassen
  - Die längere Sperre ermöglicht bessere Fixierung von dickem Gewebe, da sie bei geöffnetem Maul bereits frühzeitig greift





EA092R	EA096R	EA097R	EA099R	EA100R
155 mm	220 mm	255 mm	300 mm	295 mm
6"	8 3/4"	10"	12"	11 3/4"

ALLIS

EA092R–EA100R



ALLIS

EA095R

very delicate

besonders fein

200 mm, 8"





1/1
5 x 6 teeth, sharp
5 x 6 Zähne, scharf

1/2

TUFFIER

BF301R

125 mm, 5"





1/1
4 x 5 teeth
4 x 5 Zähne

1/2

BABY-ALLIS

EA012R

130 mm, 5 1/8"





1/1
5 x 6 teeth
5 x 6 Zähne

1/2

BOYS-ALLIS

EA010R

155 mm, 6"





1/1
9 x 10 teeth
9 x 10 Zähne

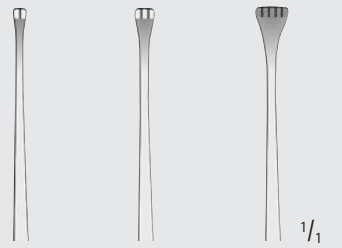
1/2

ALLIS-ADAIR

MD568

160 mm, 6 1/4"





EA013R	EA014R	EA015R
2 x 3 teeth	3 x 4 teeth	4 x 5 teeth
2 x 3 Zähne	3 x 4 Zähne	4 x 5 Zähne

1/1

ALLIS

EA013R–EA015R

155 mm, 6"





1/1

5 x 6 teeth

5 x 6 Zähne

1/2

ALLIS

EA016R

155 mm, 6"





EA017R	EA018R
190 mm	255 mm
7 1/2"	10"

1/1

ALLIS

EA017R–EA018R

5 x 6 teeth
slendern patterns

5 x 6 Zähne
zarte Modelle



1/1

1/2

ALLIS

FB938R

220 mm, 8 3/4"





1/1
3 x 4 teeth
3 x 4 Zähne

1/2

JUDD-ALLIS
EA025R
155 mm, 6"





1/1
3 x 4 teeth
3 x 4 Zähne

1/2

JUDD-ALLIS
EA026R
195 mm, 7 3/4"

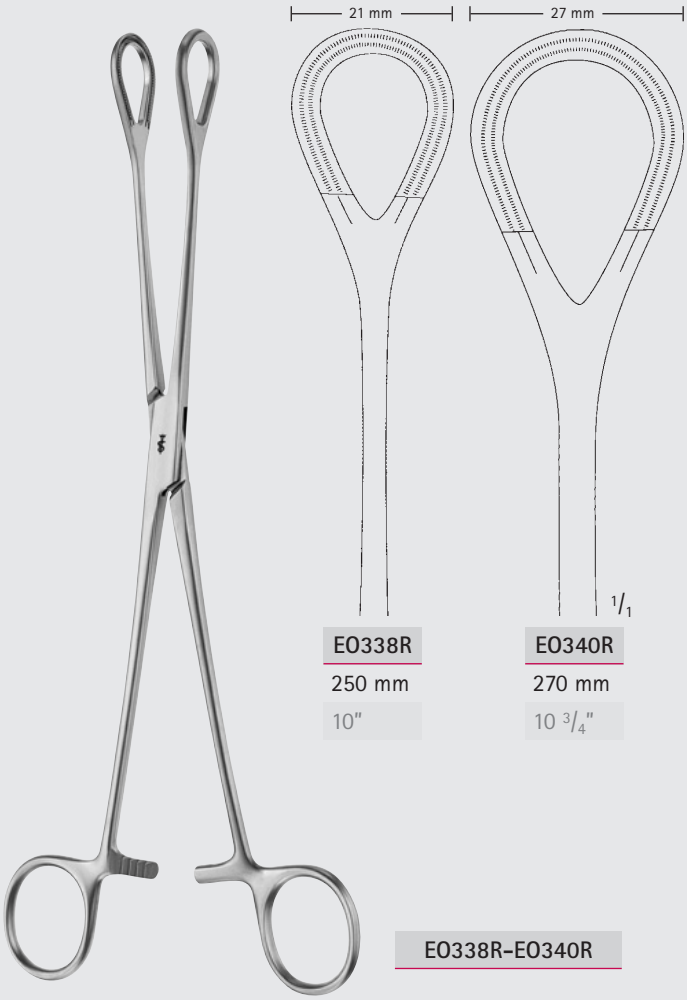




1/1
6 x 7 teeth
6 x 7 Zähne

1/2

ALLIS-THOMS
EA020R
200 mm, 8"



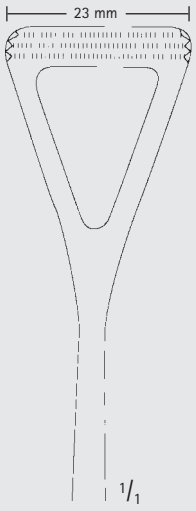
EO338R	EO340R
250 mm	270 mm
10"	10 3/4"

EO338R–EO340R

2:3 Teeth rows

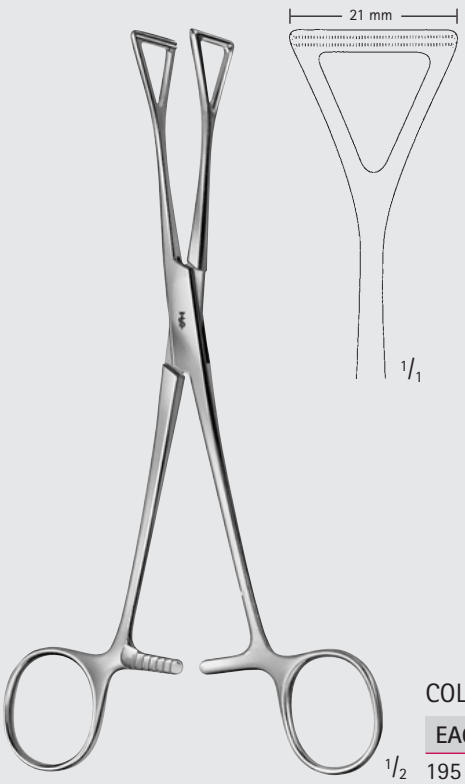


2:3 Zahnreihen



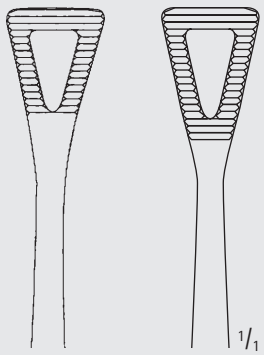


COLLIN
EA062R
1/2 230 mm, 9"



COLLIN
EA061R
1/2 195 mm, 7 3/4"





1/1

BH902R	EA037R
155 mm	200 mm
6"	8"

PENNINGTON
BH902R-EA037R



1/2

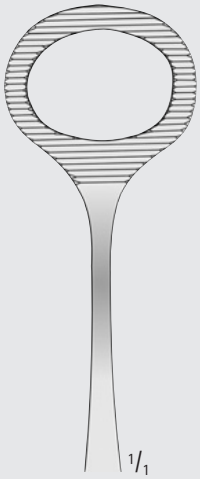


1/1

COLLIN
BH906R
160 mm, 6 1/4"



1/2



1/1

COLLIN
AN709R
170 mm, 6 3/4"

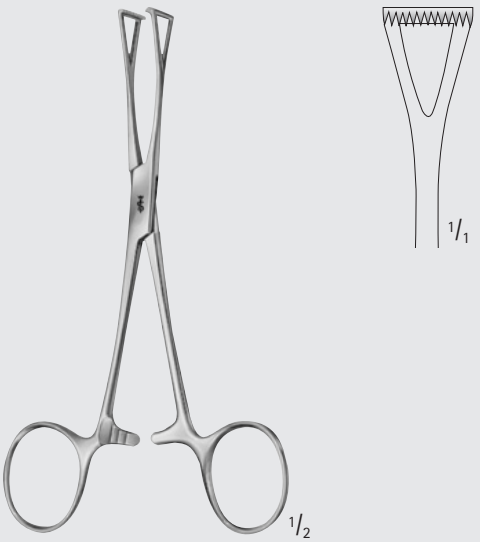


1/2



1/1

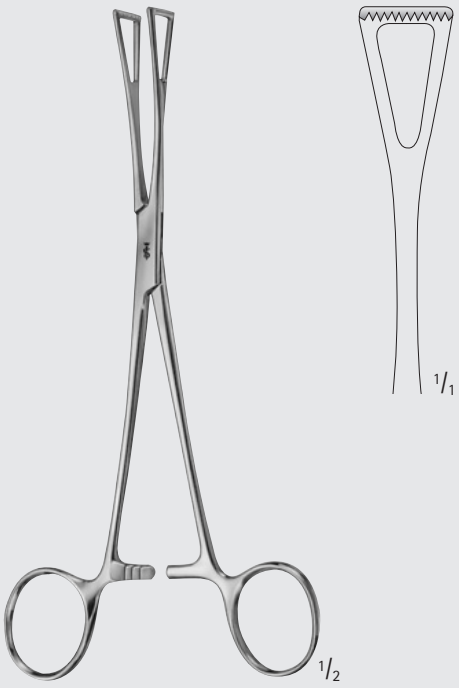
COLLIN
BH908R
160 mm, 6 1/4"



COLLIN

EA039R

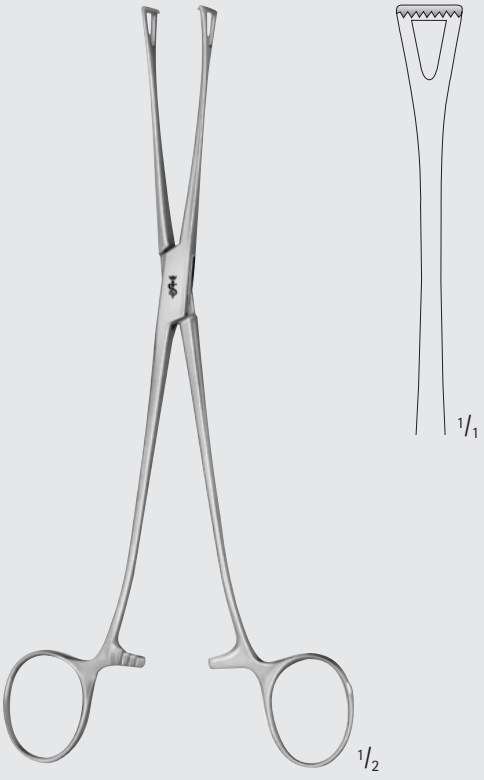
140 mm, 5 1/2"



COLLIN

EA040R

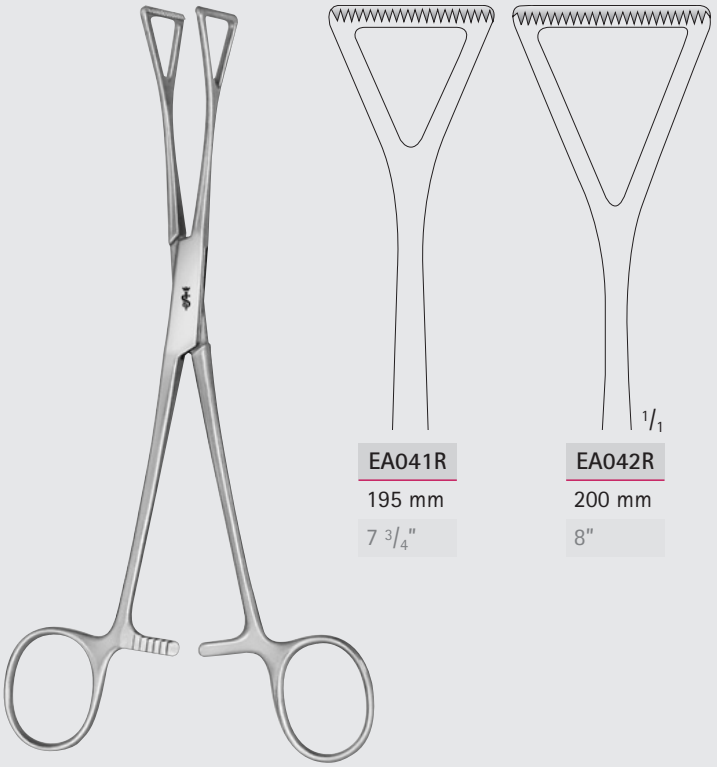
180 mm, 7"



LOCKWOOD

EA036R

200 mm, 8"



DUVAL-COLLIN

EA041R-EA042R

EA041R

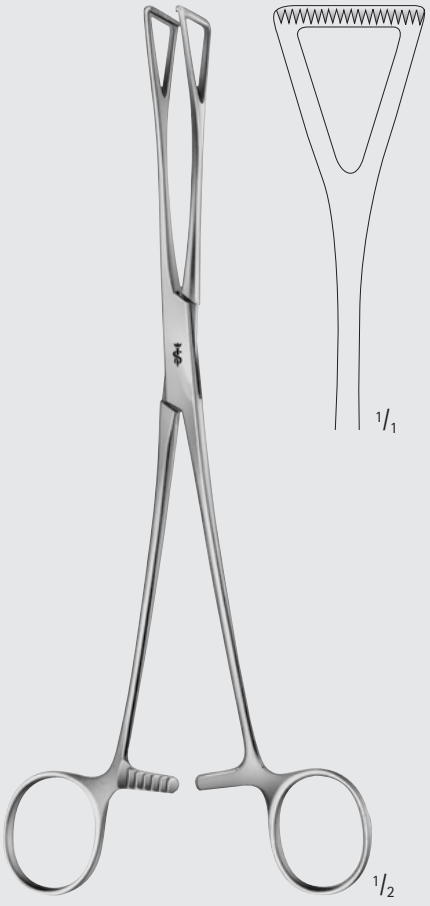
195 mm

7 3/4"

EA042R

200 mm

8"



DUVAL

FB930R

230 mm, 9"



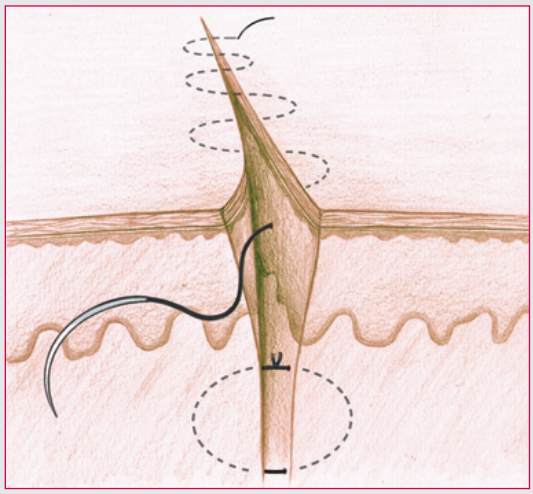
WILLIAMS

EA028R

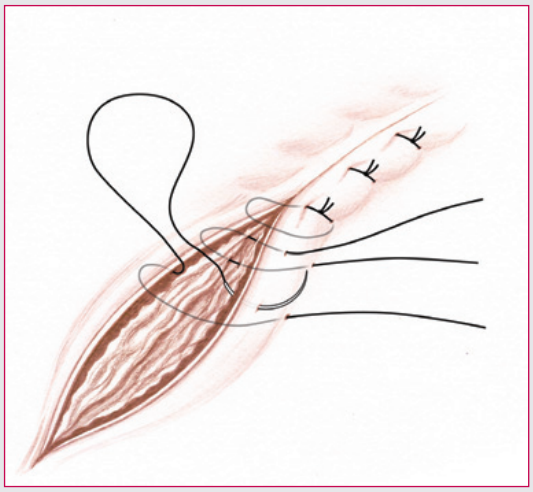
160 mm, 6 1/4"

Complete product portfolio for skin closure in cardiovascular procedures

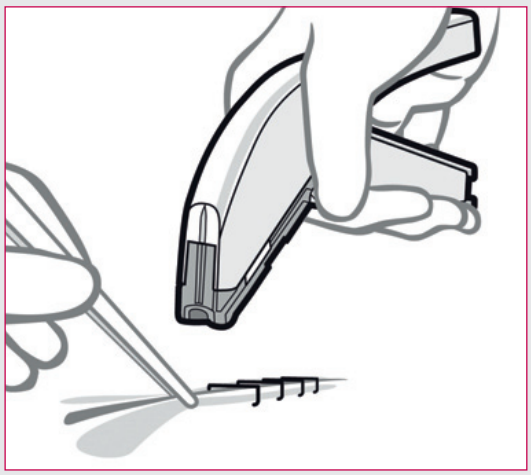
Komplettes Produktprogramm für den Hautverschluss bei Eingriffen in der Herz- und Gefäßchirurgie



Interrupted sutures
Einzelknopfnaht



Continuous suture
Fortlaufende Naht





Manipler



Monosyn®

Mid-term synthetic absorbable monofilament suture made of glyconate.
14 days: 50 % initial knot pull strength
60 - 90 days: total mass absorption

Monofiles synthetisches Glyconat-Nahtmaterial mittlerer Resorptionsdauer.
14 Tage: 50 % der initialen Knotenzugfestigkeit
60 – 90 Tage: Resorption der gesamten Fadenmasse





Premilene®

Non-absorbable monofilament suture made of polypropylene

Monofiler nicht resorbierbarer Polypropylen-Faden





Manipler®

Fast, secure and reliable stainless steel-staples

Schnelles, sicheres und zuverlässiges Hautklammernahtgerät mit Klammern aus rostfreiem Edelstahl

For further details see brochure No.
BBSE-017-02 Premilene®
BBSE-078-02 Monosyn®
BBSE-162-02 Manipler®

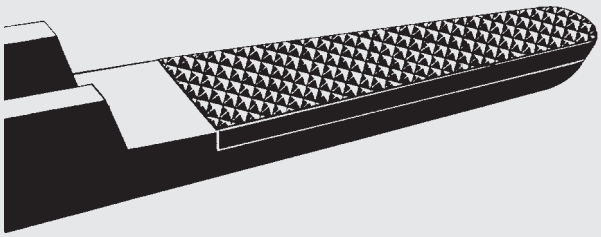
Weitere Einzelheiten finden Sie in folgenden Broschüren:
BBSE-017-02 Premilene®
BBSE-078-02 Monosyn®
BBSE-162-02 Manipler®







DUROGRIP® Needle Holders
DUROGRIP® Nadelhalter





Aesculap needle holders have jaws with carbide inserts and according to the use required the resp. structure can be chosen. A smooth jaw surface as well as 3 different serrations guarantee a safe „grip" of the resp. needle.

Aesculap Nadelhalter sind durch die Struktur der Hartmetall-Maulteile auf das jeweilige, indikationsbezogene Nahtmaterial abgestimmt. Eine glatte Maulfläche sowie 3 verschiedene Haftprofile garantieren den sicheren „Griff" der jeweiligen Nadel.

We recommend carbide inserts

with smooth jaw surface for suture material	9/0 – 11/0
with 0.2 mm pitch of serration for suture material	6/0 – 10/0
0.4 mm	4/0 – 6/0
0.5 mm	up to 3/0

Wir empfehlen Hartmetall-Maulteile

mit glatter Fläche für Nahtmaterial	9/0 – 11/0
mit Teilung 0,2 mm für Nahtmaterial	6/0 – 10/0
0,4 mm	4/0 – 6/0
0,5 mm	bis 3/0



DUROGRIP® Needle holders with carbide inserts
Identification:
- **gold-plated rings, handle ends and ratchets**

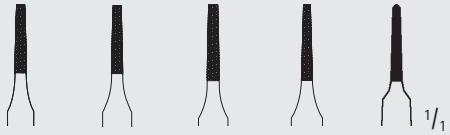
DUROGRIP® Nadelhalter mit Hartmetall-Plättchen
- Kennzeichnung:
  Vergoldete Ringe, Branchenenden und Sperren

These special patterns with extremely fine jaws are suitable for holding non-traumatic needles and fine vascular needles.

Diese Spezialmodelle mit extra schmalen Mäulern eignen sich für atraumatische Nadeln und für feine Gefäßnadeln.

»grazil«





0.2	0.2	0.2	0.2	0.2
BM054R	BM055R	BM056R	BM057R	BM058R
135 mm	155 mm	175 mm	210 mm	230 mm
5 1/4"	6"	7"	8 1/4"	9"

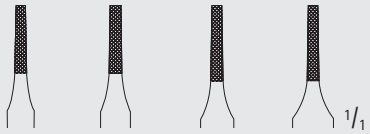
RYDER

BM054R–BM058R

very delicate

sehr fein





0.4	0.4	0.4	0.4
BM044R	BM045R	BM046R	BM047R
135 mm	175 mm	195 mm	265 mm
5 1/4"	7"	7 3/4"	10 1/2"

RYDER

BM044R–BM047R

MILLIMETERS

DUROGRIP® Needle Holders
DUROGRIP® Nadelhalter

These instruments provide the surgeon with a maximum of ergonomical comfort. The optimized design of the Instruments offers a fatigue-free working especially with regard to difficult suture and anastmosis techniques.

Diese Instrumente bieten dem Chirurgen ein Maximum an ergonomischem Komfort. Das optimierte Design der Instrumente ermöglicht ein ermüdungsfreies Arbeiten insbesondere bei schwierigen Naht- und Anastomostechniken.



HELLBERG-KUPKA

BM320R

with locking ratchet

mit Anreichsperre

210 mm, 8 1/4"



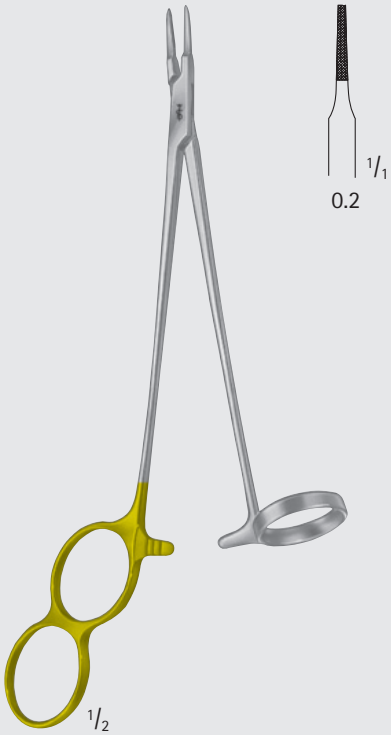
REIN-KUPKA

BM310R

without ratchet

ohne Sperre

190 mm, 7 1/2"



REIN-KUPKA

BM311R

with ratchet

mit Sperre

190 mm, 7 1/2"

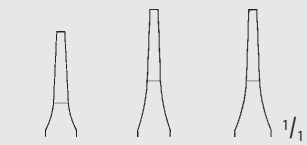
These special patterns with extremely fine jaws are suitable for holding non-traumatic needles and fine vascular needles.

Diese Spezialmodelle mit extra schmalen Mäulern eignen sich für atraumatische Nadeln und für feine Gefäßnadeln.



BM184R
200 mm, 8"



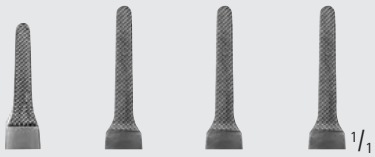


BM074R	BM075R	BM076R
150 mm	180 mm	225 mm
6"	7"	9"

RYDER

BM074R–BM076R
with smooth jaws
mit glattem Maul

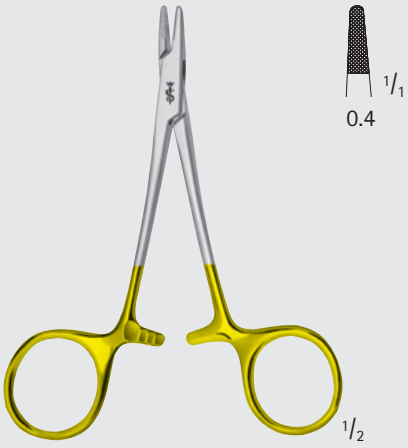




0.4 mm	0.4 mm	0.4 mm	0.4 mm
MB606R	MB607R	MB611R	MB612R
160 mm	185 mm	205 mm	235 mm
6 1/4"	7 1/4"	8"	9 1/4"

FRENCH EYE

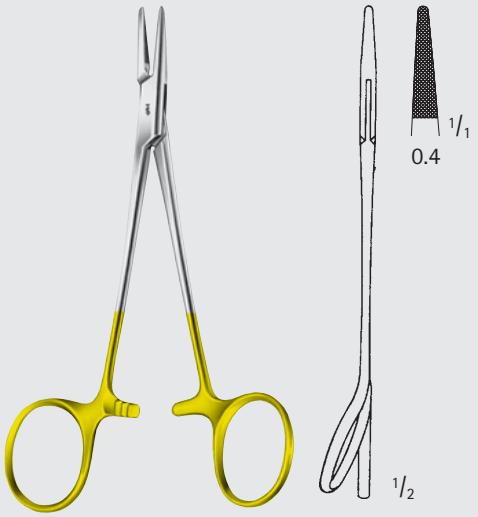
MB606R–MB612R



DERF

BM008R

115 mm, 4 1/2"



MASING

BM009R

one ring angled

ein Ring abgewinkelt

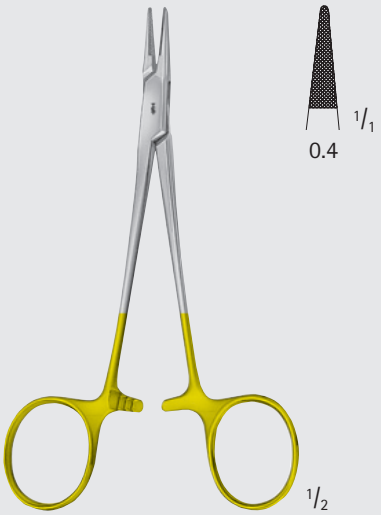
130 mm, 5 1/8"



CONVERSE

BM011R

130 mm, 5 1/8"



HALSEY

BM012R

130 mm, 5 1/8"





BM014R

with smooth jaws

mit glattem Maul

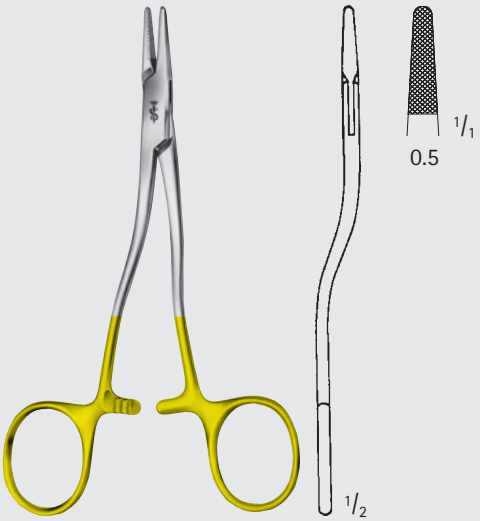


BM024R

WEBSTER

BM014R-BM024R

125 mm, 5"



KILNER

BM018R

135 mm, 5 1/4"



BAUMGARTNER

BM015R

145 mm, 5 3/4"





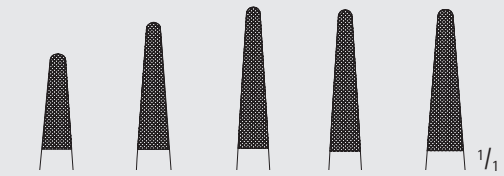
1/2

BABY-CRILE-WOOD

BM013R

150 mm, 6"



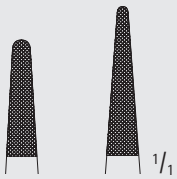


BM016R	BM017R	BM019R	BM030R	BM021R
145 mm	185 mm	200 mm	270 mm	305 mm
5 3/4"	7 1/4"	8"	10 3/4"	12"

CRILE-WOOD

BM016R–BM030R





BM020R	BM023R
175 mm	260 mm
7"	10 1/4"

SAROT

BM020R–BM023R



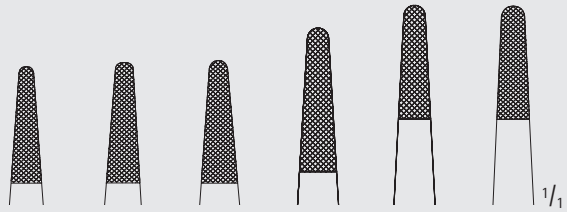
1/2

HEGAR-MAYO-SEELEY

BM022R

200 mm, 8"



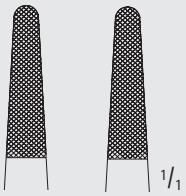


BM065R	BM066R	BM067R	BM068R	BM070R	BM069R
150 mm	185 mm	205 mm	235 mm	265 mm	300 mm
6"	7 1/4"	8"	9 1/4"	10 1/2"	12"

HEGAR-MAYO

BM065R–BM070R





BM077R	BM078R
205 mm	245 mm
8"	9 3/4"

HEGAR

BM077R–BM078R

heavy patterns

kräftige Modelle





1/1
with smooth jaws
mit glattem Maul

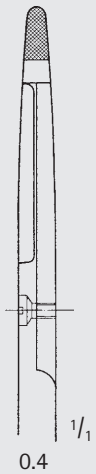
BM127R
125 mm, 5"





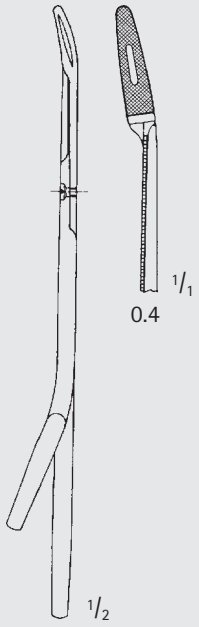
HEGAR-OLSEN MODIF. LANGE
BM128R
145 mm, 5 3/4"





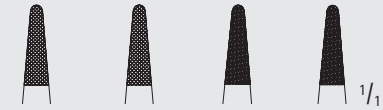
HEGAR-OLSEN
BM124R
1 blade fine serrated
1 Blatt fein gezahnt
165 mm, 6 1/2"





GILLIES
BM129R
160 mm, 6 1/4"





BM033R	BM034R	BM063R	BM064R
165 mm	210 mm	165 mm	210 mm
6 1/2"	8 1/4"	6 1/2"	8 1/4"
0.4	0.4	0.2	0.2

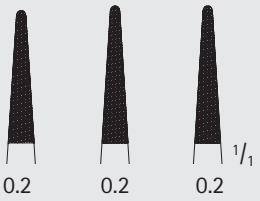
DE BAKEY

BM033R–BM064R

very delicate

sehr fein





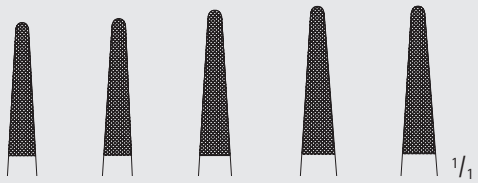
BM025R	BM026R	BM027R
180 mm	200 mm	230 mm
7"	8"	9"
0.2	0.2	0.2

BM025R–BM027R

very delicate

sehr fein

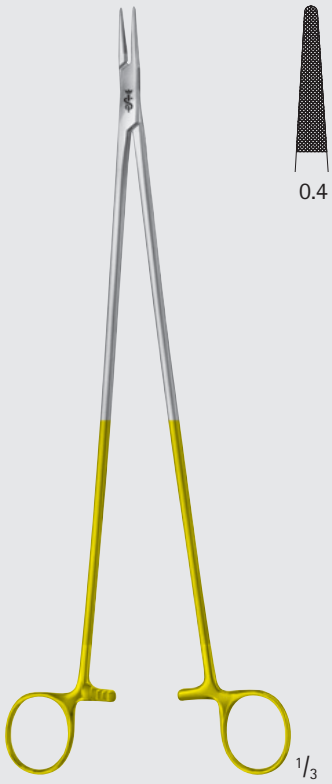




BM032R	BM035R	BM036R	BM037R	BM038R
150 mm	180 mm	230 mm	250 mm	305 mm
6"	7"	9"	10"	12"
0.4	0.4	0.4	0.4	0.4

DE BAKEY

BM032R–BM038R



DE BAKEY

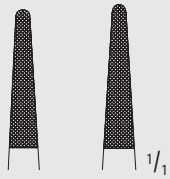
BM040R

slender pattern

schlankes Modell

305 mm, 12"





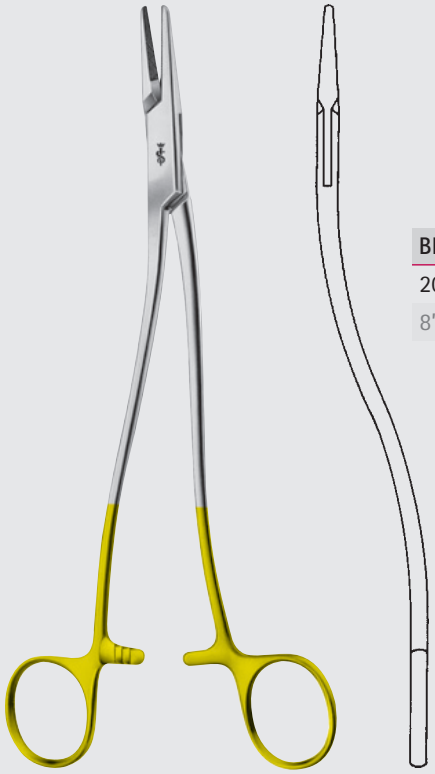
DE BAKEY

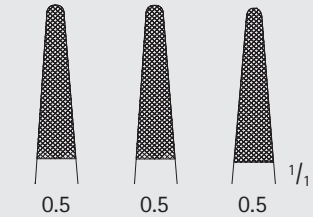
BM051R-BM052R

one extended handle and curved rings ensure optimum grip

Ringe griffgünstig abgesetzt und gebogen

BM051R	BM052R
195 mm	245 mm
7 3/4"	9 3/4"



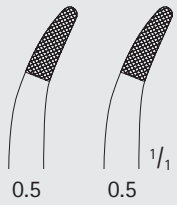


BM100R	BM101R	BM102R
200 mm	240 mm	300 mm
8"	9 1/2"	12"

WERTHEIM

BM100R–BM102R

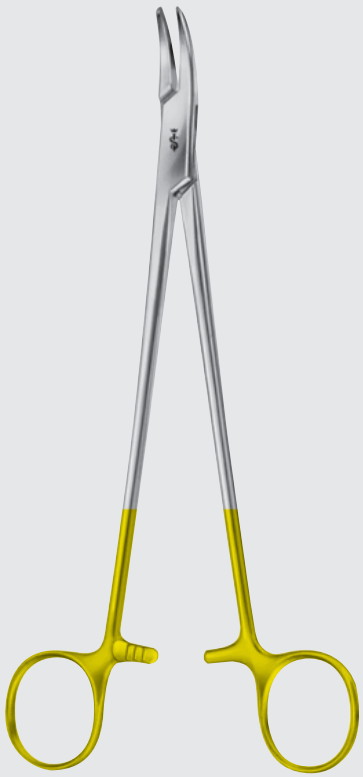


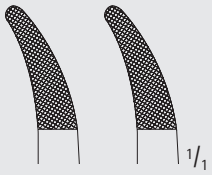


BM095R	BM096R
210 mm	230 mm
8 1/4"	9"

STRATTE

BM095R–BM096R





BM081R	BM084R
200 mm	260 mm
8"	10 1/4"

HEANEY

BM081R–BM084R



WANGENSTEEN

BM042R

275 mm, 10 3/4"



MASSON

BM090R

265 mm, 10 1/2"



FINOCHIETTO

BM092R

265 mm, 10 1/2"



BM110R
Wire twister, ligature forceps
Drahtspannzange, Ligaturzange
150 mm, 6"



BM111R
Wire twister, ligature forceps
Drahtspannzange, Ligaturzange
150 mm, 6"



BM113R
for sternum suture
für die Sternumnaht
175 mm, 7"

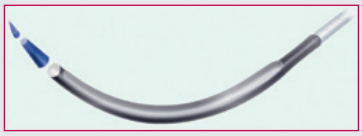


BERRY
MD456R
Wire twister
ligature forceps
Drahtspannzange
Ligaturzange
185 mm, 7 1/4"



BAUMGARTNER
BM112R
Wire twister
ligature forceps
Drahtspannzange
Ligaturzange
200 mm, 8"

The convenient needle range for all sternotomy closure techniques
Komplettes Nadelportfolio für alle Techniken des Sternumverschlusses



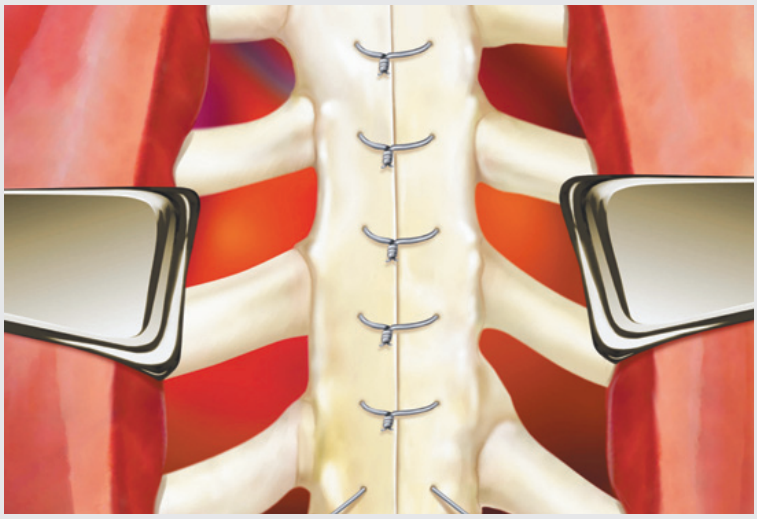
HRC ⋎
Short cutting tip
for intrasternal suturing
Kurze schneidende Spitze
für die intrasternale Naht



HRS ▲
Sternum tip
for intrasternal suturing
Sternumspitze
für die intrasternale Naht



HRN ◯
Blunt tip
for peristernal suturing
Stumpfe Nadelspitze
für die peristernale Naht





Convenient sternum closure with the Sternum Set

- Corrosion-resistant steel monofilament sutures
- Two to four steel wires per set
- Strong fixed or axial needle-thread attachment meeting the surgeon's expectations

Sternum Set advantages

- Exceptional tensile strength to cross and hold bone and tissue without any suture rupture
- High flexibility of the steel wires
- Long Pack presentation for enhanced handling avoids memory effect

Sternumverschluss mit dem Sternum-Set

- Korrosionsbeständige monofile Stahldrähte
- Zwei bis vier Drähte je Set
- Die Stahldrähte sind je nach Wunsch des Chirurgen mit fixierten (Fix) oder rotierenden (Axial) Nadeln verfügbar

Vorteile des Sternum Sets

- Durch die herausragende Reißfestigkeit werden Knochen und Gewebe ohne Fadenbruch passiert
- Hohe Flexibilität der Drähte
- Long Pack Verpackung erleichtert die Handhabung durch reduzierten Memory-Effekt



Needle advantages

- Excellent penetration provided by a specially designed round body needle with a 1/3 cutting tip.
- High bending strength to resist sternum suturing. Strongest needle-thread attachment gives more security.
- Available with fixed or axial needle attachment to enhance mobility and adaptability when suturing.

Vorteile der Nadeln

- Hervorragendes Eindringverhalten durch spezielle Rundkörperkonstruktion mit 1/3 schneidender Spitze.
- Hohe Biegefestigkeit für die belastbare Sternumnaht. Hochfeste Armierung von Nadel und Faden für noch mehr Sicherheit.
- Lieferbar als feststehende Nadel-Faden-Kombination oder mit rotierender Nadel, für noch mehr Mobilität und Vielseitigkeit beim Nähen.

PremiCron® (Sternum closure)

The alternative to steel in sternum closure. PremiCron® Sternum is a synthetic non-absorbable suture made of braided polyester with silicone coating in green.



Indications

- Weak breast bone
- Allergy to the stainless steel alloy (mainly to nickel)
- Pediatric Surgery
- Osteoporosed bones

Features

- Atraumatic needle thread attachment
- Available in suture sizes (USP) 2 and 5 (4 pcs of each per set)
- Assembled with tapercut tip round bodies needle for intrasternal suturing

PremiCron® (Sternumverschluss)

Die Alternative zum Stahl beim Sternumverschluss. PremiCron® Sternum ist ein synthetischer nicht resorbierbarer Faden aus geflochtenem Polyester, beschichtet mit Silikon.

Indikationen

- Schwach ausgeprägtes Brustbein
- Allergie gegen Edelstahllegierungen (z.B. Nickel)
- Kinderherzchirurgie
- Osteoporotische Knochen

Eigenschaften

- Atraumatische Nadel-Faden Armierung
- Verfügbar in Fadenstärke (USP) 2 und 5 mit jeweils 4 Fäden pro Packung
- Armiert mit Rundkörpernadel, deren Sternumspitze (HRS) das intrasternale Nähen erleichtert



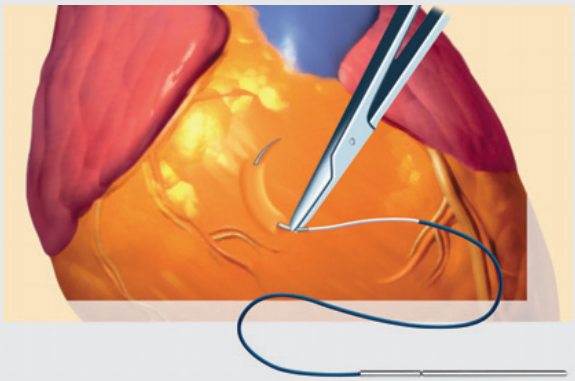
For further details see brochure No. BBSE-084-02.
Weitere Einzelheiten siehe Broschüre Nr. BBSE-084-02.

Steelex® Electrode Set

Steelex® Elektroden Set

The Electrode Set is a unipolar temporary cardiac pacing wire consisting of a stainless steel twisted wire, partially sheathed with blue polyethylene. It is double armed with one straight break-off needle and a curved taper needle.

While the unsheathed end is sutured to the myocardium using the curved needle, the straight break-off needle is passed through the chest wall, snapped at the scored point, ready to be attached to an external pacemaker or to an extension cable.



Das Elektroden Set dient der temporären Elektrostimulation und besteht aus gedrehtem rostfreiem Edelstahl, der zum Teil mit einer blauen Polyethylenisolierung beschichtet ist. Das eine Ende ist mit einer geraden Abbrech-Nadel (break off) und das andere Ende mit einer halbrunden Rundkörpernadel armiert.

Die gebogene Nadel am unbeschichteten Ende wird durch das Myokard geführt und der Draht somit fixiert. Die gerade Abbrech-Nadel (break off) wird durch die Brustwand geführt und an der Sollbruchstelle abgebrochen, so dass sich dieses Ende an einem externen Schrittmacher oder einem Verlängerungskabel anschließen lässt.



Advantages

- Excellent conductivity and isolation
- Resistance to flexing fatigue provided by the multi-filament construction
- Flexibility to assist in atraumatic implantation and removal
- Easy extraction due to the smooth PE coating
- Excellent tissue compatibility
- Available with one (blue) or two wires per pack (blue and white)

Vorteile

- Hervorragende Leitfähigkeit und Isolierung
- Flexibel durch gedrehten und mehrsträngigen Draht-aufbau
- Flexibel und damit noch atraumatischer bei Implantation und Entfernung
- Durch die glatte PE-Beschichtung leicht zu entfernen
- Optimale Gewebeverträglichkeit
- Verfügbar mit einem (blau) oder zwei Drähten pro Packung (blau und weiß)



For further details see brochure No. BBSE085-02.
Weitere Einzelheiten siehe Broschüre Nr. BBSE-085-02.



TÖNNIS

BM186R

elastic pattern

elastisches Modell

180 mm, 7"



TÖNNIS MODIF.

BM183R

elastic pattern

elastisches Modell

180 mm, 7"



ZWEIFEL

BM170R

200 mm, 8"



heavy pattern
for sternum suture

kräftiges Modell
für Sternumnaht

ZWEIFEL

BM172R

200 mm, 8"



AESCULAP

BM178R

200 mm, 8"

»grazil«



LICHTENBERG

BM132R

elastic pattern

elastisches Modell

195 mm, 7 3/4"



HÖSEL

BM165R

with long neck

mit langem Hals

205 mm, 8"



HÖSEL

BM168R

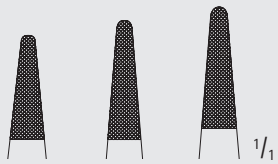
with long neck

mit langem Hals

260 mm, 10"

»grazil«





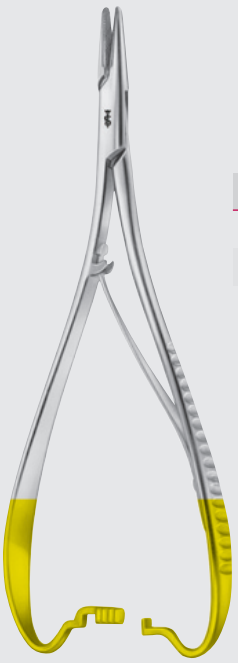
0.4	0.4	0.4
BM148R	BM150R	BM153R
140 mm	170 mm	200 mm
5 1/2"	6 3/4"	8"

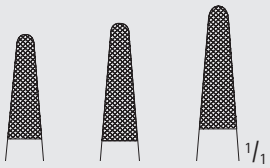
MATHIEU

BM148R–BM153R

delicate patterns

feine Modelle





0.5	0.5	0.5
BM149R	BM151R	BM154R
140 mm	170 mm	200 mm
5 1/2"	6 3/4"	8"

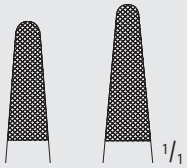
MATHIEU

BM149R–BM154R

Standard patterns

Standard-Modelle





0.5	0.5
BM156R	BM158R
200 mm	245 mm
8"	9 3/4"

MATHIEU

BM156R–BM158R

heavy patterns

kräftige Modelle



COOLEY

GF821R

335 mm, 13 1/4"



COOLEY

GF822R

detachable suction tip

abnehmbare Saugerspitze

310 mm, 12 1/4"



COOLEY

GF823R

detachable suction tip

abnehmbare Saugerspitze

295 mm, 11 3/4"



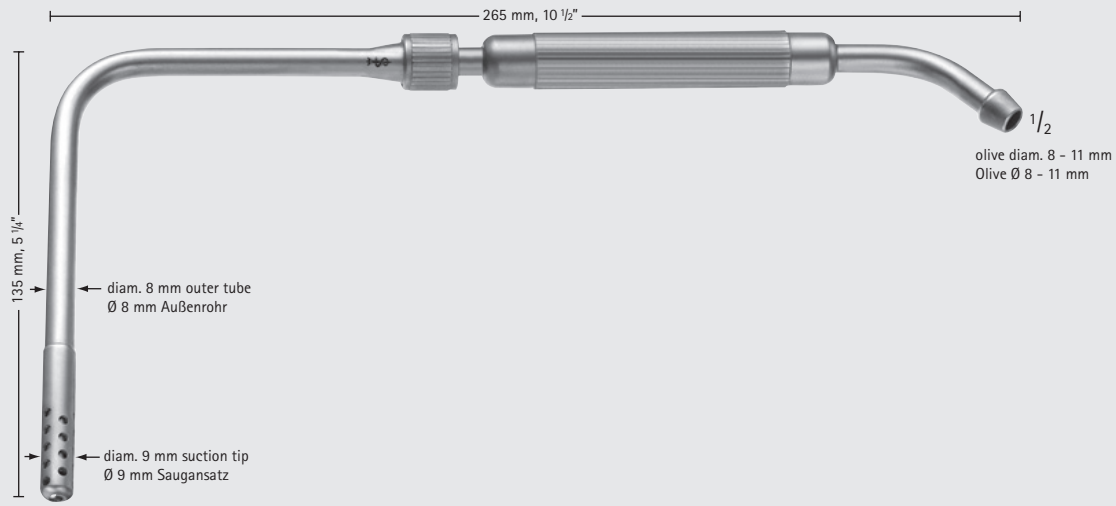
COOLEY

GF824R

detachable suction tip

abnehmbare Saugerspitze

320 mm, 12 3/4"



COOLEY

GF825R

detachable suction tip

abnehmbare Saugerspitze

265 mm, 10 1/2"



POOL

GF860R

with outer tube to be screwed off

mit abschraubbarem Außenrohr

225 mm, 9"



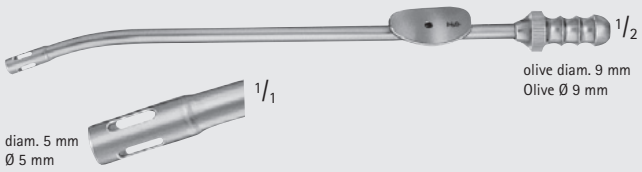
POOL

GF862R

with outer tube to be screwed off

mit abschraubbarem Außenrohr

225 mm, 9"



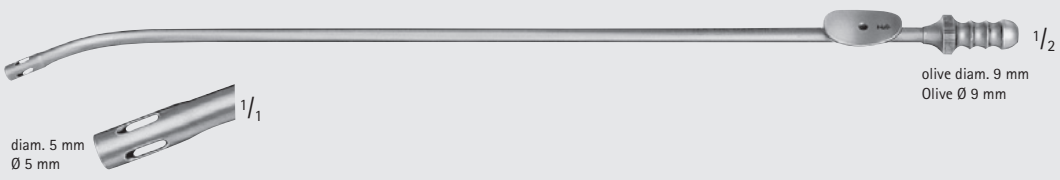
DE BAKEY

GF947R

with finger cut-off and stylet

mit Saugunterbrecher und Mandrin

160 mm, 6 1/4"



DE BAKEY

GF948R

with finger cut-off and stylet

mit Saugunterbrecher und Mandrin

270 mm, 10 3/4"



DE BAKEY

GF946R

with central bore, 3.0 mm diam. with lateral slots

mit zentraler Bohrung, Ø 3,0 mm und seitlichen Schlitzen

275 mm, 10 3/4"



YANKAUER

GF944R

with central bore, 2.0 mm diam.

mit zentraler Bohrung, Ø 2,0 mm

285 mm, 11 1/4"



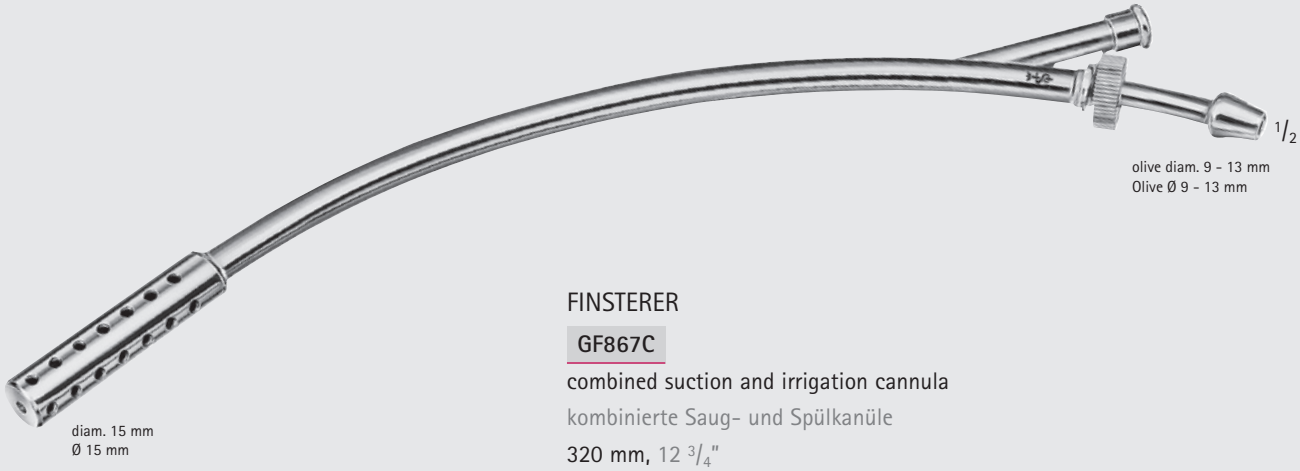
YANKAUER

OM671R

with especially large central bore, 4.8 mm diam.

mit besonders großer zentraler Bohrung, Ø 4,8 mm

285 mm, 11 1/4"



FINSTERER

GF867C

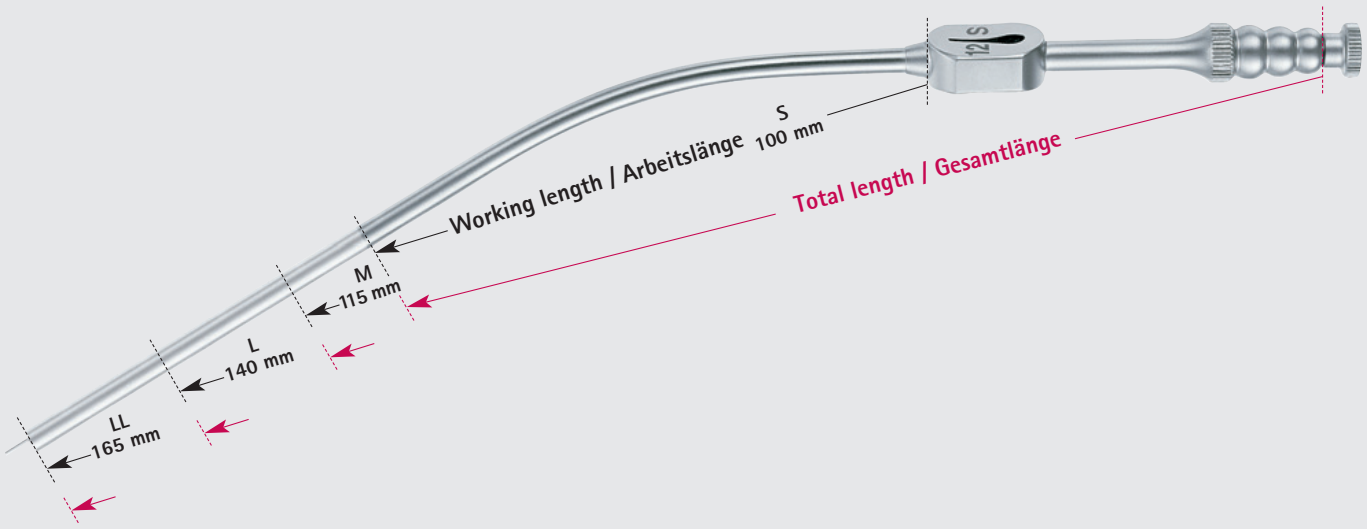
combined suction and irrigation cannula

kombinierte Saug- und Spülkanüle

320 mm, 12 3/4"

- Teardrop shaped thumb control for a very precise suction regulation
- Mallable material for individual forming of the suction hose
- Conical design of the tube prevents plugging
- Delivered with stylet

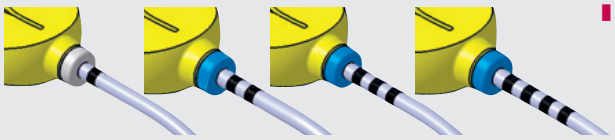
- Tropfenförmiger Saugunterbrecher für eine sehr feine Regulierung der Saugleistung
- Biegsames Material für individuelle Ausformung des Saugrohrs
- Konisches Design des Saugrohres vermindert Verstopfung
- Saugkanüle wird mit Mandrin zur Reinigung geliefert



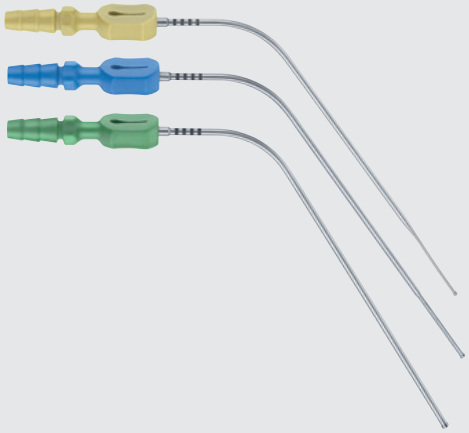
	S	M	L	LL
Working length Arbeitslänge	100 mm, 4"	115 mm, 4 1/2"	140 mm, 5 1/2"	165 mm, 6 1/2"
Total length Gesamtlänge	165 mm, 6 1/2"	180 mm, 7"	205 mm, 8"	230 mm, 9"
Outer diameter Außendurchmesser				
3 ○ 1.0 mm	GF401R	GF391R	GF411R	GF421R
4 ◎ 1.4 mm	GF402R	GF392R	GF412R	GF422R
5 ◎ 1.7 mm	GF403R	GF393R	GF413R	GF423R
6 ◎ 2.0 mm	GF404R	GF394R	GF414R	GF424R
7 ◎ 2.3 mm	GF405R	GF395R	GF415R	GF425R
8 ◯ 2.7 mm	GF406R	GF396R	GF416R	GF426R
9 ◯ 3.0 mm	GF407R	GF397R	GF417R	GF427R
12 ◯ 4.0 mm	GF409R	GF399R	GF419R	GF429R

RAABE micro suction

- Fine micro suction instruments
- Rigid instrument, ideal for precise preparations
- Atraumatic instrument tip
- Wider view of he operating site even for the narrowest of approaches
- Ring-coded length, available in:
  - 80 mm (1 ring)
  - 100 mm (2 rings)
  - 120 mm (3 rings)
  - 140 mm (4 rings)

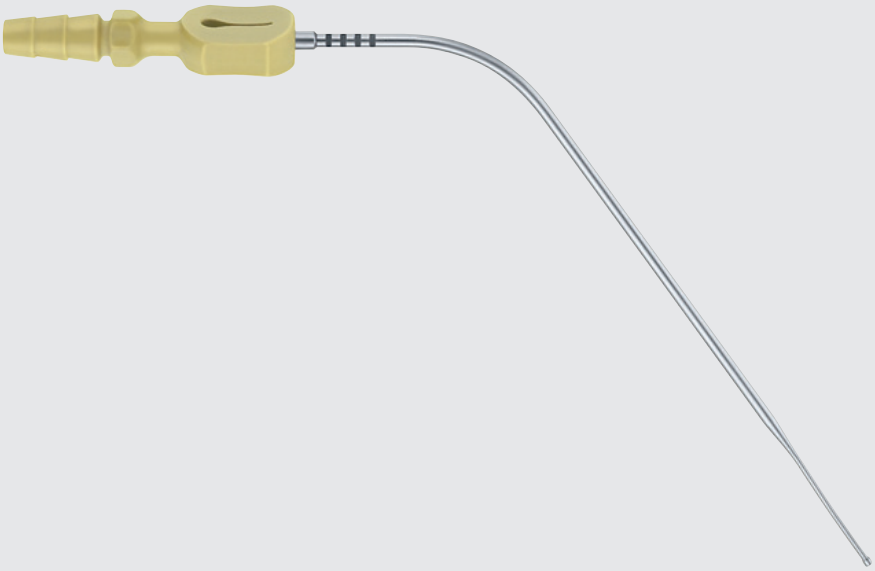


- Color-coded width, available in
  - 4 FR (yellow)
  - 6 FR (blue)
  - 9 FR (green)



Mikro-Sauger nach RAABE

- Feine Mikro-Sauger
- Biegesteifes Instrument ideal für präzise Präparationen
- Atraumatische Instrumentenspitze
- Erweiterte Übersicht im OP-Gebiet auch bei kleinsten Zugängen
- Kodierte Längen über Strichcode, verfügbar in:
  - 80 mm (1 Ring)
  - 100 mm (2 Ringe)
  - 120 mm (3 Ringe)
  - 140 mm (4 Ringe)
- Kodierte Breite, verfügbar in:
  - 4 FR (gelb)
  - 6 FR (blau)
  - 9 FR (grün)



RAABE

Working length / Arbeitslänge			80 mm, 3 1/8 "	100 mm, 4 "	120 mm, 4 3/4 "	140 mm, 5 1/2"
Total length / Gesamtlänge			130 mm, 5 1/8"	150 mm, 6"	165 mm, 6 1/2"	185 mm, 7 1/4"
Color-coded width / Kodierte Breite	Outer diameter / Außendurchmesser		1 ring / 1 Ring	2 rings / 2 Ringe	3 rings / 3 Ringe	4 rings / 4 Ringe
yellow / gelb	4	1.4 mm	GF470R	GF473R	GF476R	GF479R
blue / blau	6	2.0 mm	GF471R	GF474R	GF477R	GF480R
green / grün	8	2.7 mm	GF472R	GF475R	GF478R	GF481R



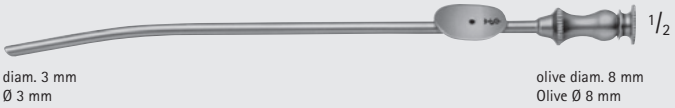
ADSON

GF917R

with finger cut-off

mit Saugunterbrecher

190 mm, 7 1/2"



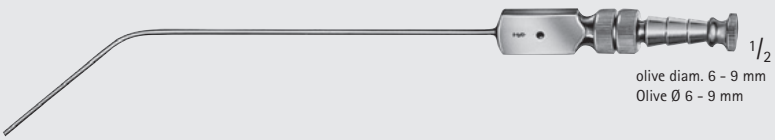
ADSON

GF918R

with finger cut-off and stylet

mit Saugunterbrecher und Mandrin

165 mm, 6 1/2"



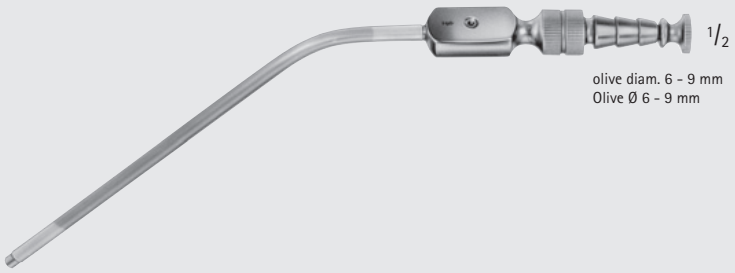
PLESTER

	Diam. Ø
GF939R	1.5 mm
GF940R	2.0 mm
GF941R	2.5 mm
GF942R	3.0 mm

with finger cut-off and stylet, thumb piece parallel to curve, with LUER hub

mit Saugunterbrecher und Mandrin, Griffplatte parallel zur Biegung, LUER-Bohrung

195 mm, 7 3/4"



FERGUSSON

	Diam. Ø
GF933R	4.0 mm

insulated, with finger cut-off and stylet, thumb piece 90° to curve, with LUER hub
isoliert, mit Saugunterbrecher und Mandrin, Griffplatte 90° zur Biegung, LUER-Bohrung
180 mm, 7"



FRAZIER

	Diam. Ø
GF923R	3.0 mm
GF925R	5.0 mm

with finger cut-off and stylet, thumb piece 90° to curve, with LUER hub
mit Saugunterbrecher und Mandrin, Griffplatte 90° zur Biegung, LUER-Bohrung
180 mm, 7"

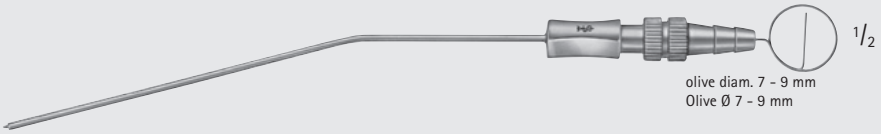


FRAZIER

	Diam. Ø
MD124R	2.3 mm
MD125R	2.7 mm
MD127R	3.4 mm
MD129R	4.0 mm

with finger cut-off and stylet, thumb piece 90° to curve, with LUER hub
mit Saugunterbrecher und Mandrin, Griffplatte 90° zur Biegung, LUER-Bohrung
110 mm, 4 1/4"

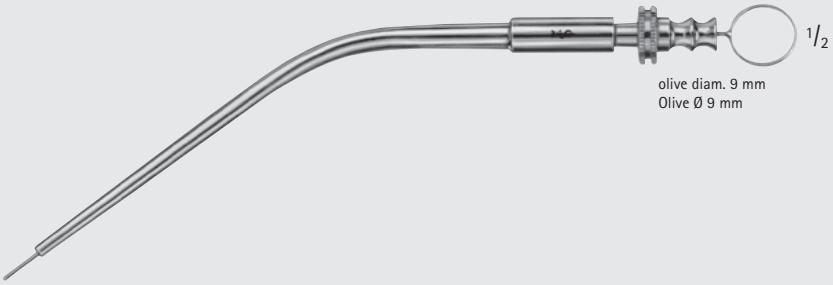
MILLIMETERS



LEMPERT

	Diam. Ø
GF937R	2.0 mm
GF938R	3.0 mm

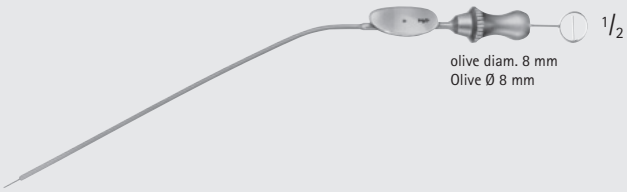
with finger cut-off and stylet
mit Saugunterbrecher und Mandrin
200 mm, 8"



FORMBY

	Diam. Ø
GF932R	3.3 mm

210 mm, 8 1/4"



BARRON

	Diam. Ø
GF935R	1.3 mm
GF936R	2.0 mm

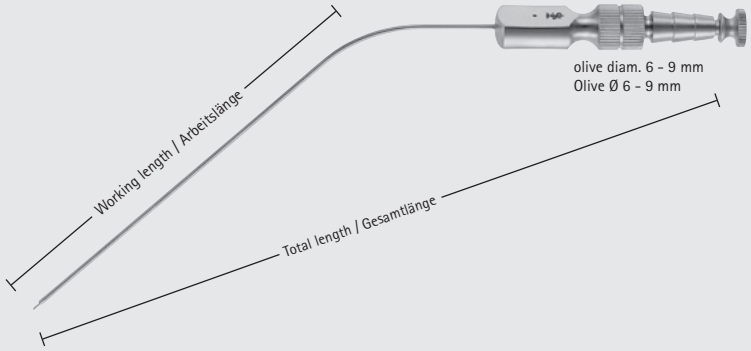
with finger cut-off and stylet
mit Saugunterbrecher und Mandrin
160 mm, 6 1/4"



SCHUHKNECHT

	Diam. Ø
GF756R	1.0 mm
GF757R	0.5 mm

130 mm, 5 1/8"



FERGUSSON

Working length / Arbeitslänge	110 mm, 4 3/8"	130 mm, 5 1/8"	160 mm, 6 1/4"	200 mm, 8"
Total length / Gesamtlänge	195 mm, 7 3/4"	215 mm, 8 1/2"	245 mm, 9 3/4"	280 mm, 11"
Diam. / Ø				
1.5 mm	GF350R	GF360R	GF370R	GF380R
2.0 mm	GF351R	GF361R	GF371R	GF381R
2.5 mm	GF352R	GF362R	GF372R	GF382R
3.0 mm	GF353R	GF363R	GF373R	GF383R
4.0 mm	GF354R	GF364R	GF374R	GF384R
5.0 mm	GF355R	GF365R	GF375R	GF385R

Reprocessing
Aufbereitung



Reprocessing, Care & Maintenance
Aufbereitung, Pflege & Reinigungshinweise

From world first to a worldwide standard
Vom Novum zum weltweiten Standard



For more than 30 years Aesculap sterile containers represent the worldwide standard for sterile supplies packaging and for the systematic organisation of the sterile supply cycle.

In 1971, when Aesculap invented and presented the first genuine sterile container - based on research and development in which Aesculap had played a crucial role since the beginning of the 20th century - this marked the arrival of a world first. The revolutionary packing and supply system quickly proved itself and soon was established as a reliable standard in Germany, Europe and the USA. During all this change patient safety has always been the paramount consideration: from optimal preservation of the sterility of surgical instruments through transport and storage periods right to the operating table. Apart from the safety aspect, Aesculap sterile containers also convince by their economic advantage, making them the sterile packaging system of choice for instrument trays, worldwide.

Seit mehr als 30 Jahren markieren Aesculap Sterilcontainer den weltweiten Standard für Sterilgutverpackung zur systematischen Organisation des Sterilgutkreislaufes.

Mit der Erfindung und Bereitstellung des ersten echten Sterilcontainers schuf Aesculap 1971 ein weltweites Novum – basierend auf einer Forschungs- und Entwicklungsarbeit, die Aesculap bereits seit Anfang des 20. Jahrhunderts entscheidend mitgeprägt hat. Das damals revolutionäre Verpackungs- und Bereitstellungssystem bewährte sich schnell und setzte sich bald als zuverlässiger Standard in Deutschland, Europa und den USA durch. Im Vordergrund der Bewertung stand dabei stets die Patientensicherheit: Von der optimalen Sterilerhaltung der chirurgischen Instrumente während Transport und Lagerdauer bis hin zum operativen Einsatz. Neben dem Aspekt der Sicherheit überzeugen Aesculap Sterilcontainer auch durch ihre ökonomische Komponente und setzten sich damit klar als Sterilgutverpackung für Instrumentensiebe weltweit durch.



Four good reasons to choose the Sterile Container System:

- Safety for patients and staff through preservation of instrument sterility and closed transport of used instruments
- Economic advantages due to reusable packaging, low costs of use and long service life
- Comfortable handling: simple, quick and safe
- Transparency: standardised, easy documentation of the supply cycle

Vier gute Gründe für das Sterilcontainer System:

- Sicherheit für Patient und Personal durch Sterilerhaltung der Instrumente und geschlossenen Transport benutzter Instrumente
- Wirtschaftlichkeit durch die Wiederverwendbarkeit der Verpackung, niedrige Gebrauchskosten und eine hohe Lebensdauer
- Komfortable Handhabung: einfach, schnell und sicher
- Übersichtlichkeit: standardisierbar, einfache Dokumentation des Warenkreislaufes

Organisation System for Sterile Supply
Organisationssystem für die Sterilgutversorgung

As the worldwide leading provider for the entire management of sterile goods, Aesculap possesses a comprehensive and proven range of products for your sterile packaging. The variety of the Aesculap Organisation Systems offers packaging solutions for all instrument sets implemented in your hospital. Containers and trays are available in various sizes and can be used in conjunction with our comprehensive range of accessories that make the Aesculap Organisation Systems a universal solution for your sterile supply.

Als weltweit führender Anbieter für das gesamte Sterilgutmanagement verfügt Aesculap über eine umfangreiche und praxisbewährte Produktpalette zur Sterilgutverpackung. Die Vielfalt der Aesculap Organisationssysteme bietet Verpackungslösungen für alle in der Praxis verwendeten Instrumentensiebe des Krankenhauses. Container und Siebkörbe in verschiedenen Versionen und Größen sowie das umfangreiche Zubehör machen Aesculap Organisationssysteme zur Universallösung für die Sterilgutversorgung.

Safety. Economy. Transparency.
Sicherheit, Wirtschaftlichkeit und Transparenz.

Through their safety and economic advantages, Aesculap sterile containers became an established part of the sterile supply cycle everywhere in the world.
By using Aesculap sterile containers, the entire cycle of supply and disposal of sterile materials can be standardised, controlled and documented: from sterile storage and transport, through easy setup in the operating room, to safe disposal of the used instruments. At the disposal stage, Aesculap sterile containers reliably protect hospital staff against contamination and thereby support hospital quality management systems with regard to hygiene and infection prophylaxis.

Ihre Sicherheit und Wirtschaftlichkeit sowie die komfortable Handhabung haben Aesculap Sterilcontainer zu einem festen Bestandteil der weltweiten Sterilgutversorgung werden lassen. Durch die Verwendung der Sterilcontainer ist der gesamte Kreislauf der Sterilgutver- und entsorgung standardisierbar, kontrollierbar und dokumentierbar: dies gilt für die sterile Lagerung und den sterilen Transport ebenso wie für die einfache Bereitstellung im OP und die sichere Entsorgung der benutzten Instrumente.
Bei der Entsorgung schützen Aesculap Sterilcontainer das Klinikpersonal zuverlässig vor Kontamination und unterstützen somit das Qualitätsmanagement der Klinik hinsichtlich Hygiene und Infektionsprophylaxe.



Training, development
Weiterbildung, Weiterentwicklung

Aesculap is involved in the continuous improvement of sterile supply everywhere in the world, through training events held by the Aesculap Academy, contributions by Aesculap staff and collaborators at national and international conferences, and extensive consulting activities on site with the user. At the same time, the Aesculap Sterile Container System benefits from continuous development to meet new demands on the processing and sterilisation of surgical instruments, be it by using new materials or by introducing intelligent germ barrier systems.

Aesculap engagiert sich weltweit für die kontinuierliche Verbesserung der Sterilgutversorgung durch Weiterbildungsveranstaltungen der Aesculap Akademie, durch Referententätigkeit von Aesculap Mitarbeitern bei nationalen und internationalen Kongressen sowie durch umfangreiche Beratungstätigkeiten beim Anwender selbst. Parallel wird das Aesculap Sterilcontainersystem beständig weiterentwickelt, um neuen Anforderungen der Aufbereitung und Sterilisation chirurgischer Instrumente gerecht zu werden, sei es durch die Verwendung neuer Materialien oder den Einsatz intelligenter Keimrückhaltesysteme.



For further details see catalogue **C40402**

Weitere Informationen finden Sie in unserem Prospekt **C40401**

Sterilit® Oil Sprays
Sterilit® Pflegeöle



Sterilit® - Oil spray

- reduces friction and protects against friction corrosion ensures good gliding and lubrication characteristics
- proven physiologically safe in accordance with ISO 10993
- environmentally friendly (CFC-free)
- suitable for steam sterilisation procedures in accordance with ISO 17665-1 and for hot air sterilisation up to max. 180 °C

Steam Penetration

- The special formula ensures that the steam penetrates the oil film during the sterilization process, even in areas difficult to access.

Sterilit® - Pflegeöle

- verringert Reibung und schützt gegen Reibkorrosion
- gewährleistet gute Gleit- und Schmiereigenschaften
- physiologische Unbedenklichkeit geprüft nach ISO 10993.
- berücksichtigt Umweltaspekte (FCKW-frei)
- geeignet für Dampfsterilisationsverfahren nach ISO 17665-1 und Heißluftsterilisation bis max. 180 °C

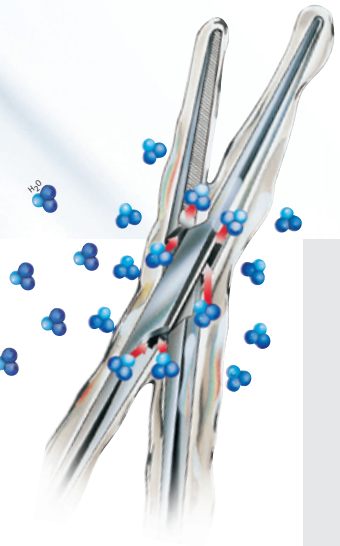
Sterilisierbarkeit

- Durch die spezielle Rezeptur ist gewährleistet, dass auch in schwer zugänglichen Stellen der Wasserdampf während des Sterilisiervorganges den Ölfilm durchdringt.

Aesculap maintenance oils Sterilit® I, Sterilit® Power Systems

Applications
All Sterilit® maintenance oils are validated for steam sterilization methods according to DIN EN ISO 17665-1, as well as for dry heat (heated air) sterilization up to 180 °C. They are applied prior to sterilization.

Sterilit®	Cat. No.	Adapter No.
Sterilit® I, spray	JG600	–
Sterilit® I, drip oiler	JG598	–
Sterilit® Hi, spray	GB600	GB600820
Sterilit® mini, spray	GB600	GB600830
Sterilit® Power Systems, spray	GB600	GB600840
Sterilit® Power Systems, drip oiler	GA059	–



Registration
Sterilit® carries the CE label and fulfils the fundamental requirements in compliance with MDD93/42/EEC.

Properties
- Steam penetrable oil film.
- Oil film does not interfere with the effectiveness of the sterilization.
- Lubricates and protects against corrosion.
- Silicone-free, no staining or crust formation on instrument surfaces.

Biological safety – toxycology
There is no evidence that hazards to the patient will arise during surgical application of Sterilit® treated devices. This is only valid that the Sterilit® oil is properly and carefully used as described in the instructions for use.

Safe handling
- Only apply prior to sterilization.
- Store in a cool and dry place protected from light.
- Take note of the use-by date.
- Before using Sterilit, reprocess the object to be lubricated according to the relevant instructions for use.

Warning
- Avoid release to the environment.
- Refer to special instructions/safety data sheets.

Anwendungshinweise für Sterilit® I, Sterilit® Power Systems

Einsatzgebiet
Alle Sterilit®-Pflegeöle sind für Dampfsterilisations-Verfahren validiert nach DIN EN ISO 17665-1 und zur Heißluftsterilisation bis max. 180 °C geeignet. Sie werden vor der Sterilisation angewendet (Achtung: Motorensysteme sind nicht für die Heißluftsterilisaton geeignet).

Sterilit®	Art.-Nr.	Adapter-Nr.
Sterilit® I, Spray	JG600	–
Sterilit® I, Tropföler	JG598	–
Sterilit® Hi, Spray	GB600	GB600820
Sterilit® mini, Spray	GB600	GB600830
Sterilit® Power Systems, Spray	GB600	GB600840
Sterilit® Power Systems, Tropföler	GA059	–

Registrierung
Sterilit® trägt die CE Kennzeichnung und erfüllt die grundlegenden Anforderungen nach MDD93/42/EWG.

Eigenschaften
- Wasserdampfdurchlässiger Ölfilm
- Keine Beeinträchtigung der Sterilisationswirkung durch den Ölfilm
- Schmierwirkung und Korrosionsschutz
- Silikonfrei, keine Flecken- und Krustenbildung auf Instrumentoberflächen

Biologische Sicherheit – Toxikologie
Anzeichen für eine Gefährdung des Patienten durch die chirurgische Anwendung von mit Sterilit® behandelten Geräten sind nicht bekannt. Dies gilt nur unter der Bedingung, dass das Sterilit® Öl fachgerecht und sorgfältig eingesetzt wird wie in der Gebrauchsanweisung beschrieben.

Sichere Handhabung
- Nur vor der Sterilisation anwenden.
- Kühl, trocken und lichtgeschützt lagern.
- Mindesthaltbarkeitsdatum beachten.
- Vor der Verwendung von Sterilit® müssen Medizinprodukte gemäß Gebrauchsanweisung aufbereitet werden.

Warnung
- Freisetzung in die Umwelt vermeiden.
- Besondere Anweisungen einholen/Sicherheitsdatenblatt zu Rate ziehen.



STERILIT®

JG600

Aesculap Oil Spray in spray cans (CFC-free), for instrument care prior to sterilization
Aesculap Ölspray, in Spraydosen (FCKW-frei), zur Instrumentenpflege vor der Sterilisation



STERILIT®

GB600

Aesculap oil spray in spray cans (CFC-free), for power systems care prior to sterilization
Aesculap Ölspray, in Spraydosen (FCKW-frei) zur Pflege von Motoren-systemen vor der Sterilisation



GB600810

mirco-line



GB600820

Hilan®, Hilan® XS, Hi-Line, Hi-Line XS, microLAN, miniLAN, microspeed® EC, microspeed® uni



GB600830

mini-line



GB600840

Acculan® 3Ti



GB600870

mircospeed® uni XS



STERILIT®

JG598

Aesculap instrument oil for lubricating joints and locks prior to sterilization
Aesculap Instrumentenöl, zum Ölen der Schlüsse, Sperren usw. vor der Sterilisation



GA059

Aesculap motor-handpiece oil, for lubricating friction bearings on motors prior to sterilization
Aesculap Motorenhandstücköl, zum Ölen der Gleitlager an Motoren vor der Sterilisation





Please observe the following recommendations for the care and maintenance of your high-quality Aesculap instruments.



Treatment of brand new Instruments

Brand new instruments must be cleaned before the first sterilization or use. Protective caps and protective films must be removed completely, from all microsurgical instruments.

After each use

- Clean contaminated instruments as quickly as possible.
- Open instruments with a joint e.g. to a 90°- angle.
- For machine cleaning, place instrument in a basket suitable for the cleaning process (make sure cleaning solution and rinse water from machine comes into contact with all surfaces of the instrument).
- Completely dismantle any dismantleable instruments.
- Preferably dry removal tray in the OR.
- For wet removal always use an active cleaning disinfectant. Rinse the instrument thoroughly with clear, flowing water before machine cleaning and disinfecting.
- If necessary, treat with an ultrasound washer. Always use according to the manufacturer's instructions:
  - for effective mechanical cleaning before manual cleaning,
  - for pre-treatment of instruments with dried on contaminant before machine cleaning.
- Microneurosurgical instruments and instruments with fine working distal ends should not be treated with ultrasound. They should be cleaned either manually or in the washing machine. In case of cleaning in a machine please use a suitable storage rack.
- If cleaning manually or in a machine: always follow manufacturer's instructions. For detergents and other cleaning solutions.

Manual Cleaning/Disinfection

- Place instruments into a suitable disinfectant with active cleaning properties so that all surfaces, inner cavities, lumens and openings come into contact with the solution. Always follow the disinfectant manufacturer's instructions.
- After chemical disinfection, always rinse thoroughly with clear, flowing water. Always follow the instructions provided by the manufacturer of the disinfectant.
- Remove any contaminants still clinging to the instrument with a soft synthetic brush. Do not use a scouring or metal brush.
- Clean any lumens and conduits with soft, round, synthetic brushes. Please note, the lumen and the brush must have the same diameter.
- Final rinsing to be done with distilled or de-ionized water.
- Dry instrument with an absorbent, soft and lint-free cloth.
- Dry lumens and conduits with compressed air. Always use this method with caution.

Machine Cleaning/Disinfection

- Select the program according to the material of the instrument (e.g. stainless instruments, steel, aluminium) to be cleaned. Always follow the machine manufacturer's instructions.
- Final rinsing to be done with de-ionized or demineralized water.

- Leave sufficient time for drying.
- Remove the instrument from the machine immediately after the program is finished.

Care/Testing

- Allow instruments to cool down to room temperature.
- Lubricate movable parts (e.g. joints and ends) with special sterilization-capable, steam-permeable lubricant (e.g. Sterilit Oil Spray JG600 or Sterilit Instrument Oil JG598).
- After each cleaning, disinfection process, check the instrument to make sure it is clean, that it functions properly and it has not suffered any damage, e.g. bent, broken, fractured or worn parts.
- Remove any damaged and defective instruments and replace with functional items and send away any product which is damaged for repair.

Storage

- Place instruments with the fine working end and/or microneurosurgical instruments in a suitable storage rack. Always secure microneurosurgical instruments properly.
- Where possible sterilize instruments on the first ratchet.

Sterilization

- To steam sterilize, proceed as follows: Steam sterilization must be carried out according to a validated steam sterilization process (e.g. with a sterilizer meeting the specifications of DIN 285 and validated according to DIN EN ISO 17665-1).
  When using the fractional vacuum method, use the 134°C-/2 bar program for sterilization with a minimum hold time of 5 minutes.







Recommended Products



STERILIT®

JG600

Aesculap Oil Spray in aerosol can (ozone-friendly), for maintenance of instruments prior to sterilization.



STERILIT®

JG598

Aesculap Instrument Oil, for box locks, ratchets etc. prior to sterilization.

You will find detailed information about the reprocessing of individual Aesculap products in the data base "Reprocessing/Instructions for Use" on the internet:
www.aesculap-extra.net





Bitte berücksichtigen Sie bei der Aufbereitung Ihrer hochwertigen Aesculap Instrumente die nachstehenden Empfehlungen.



Behandlung fabrikneuer Instrumente

Fabrikneue Instrumente sind vor der ersten Sterilisation bzw. Nutzung zu reinigen. Schutzkappen und Schutzfolien sind vollständig zu entfernen, z.B. bei Meißeln, Raspatorien oder mikrochirurgischen Instrumenten.

Nach jedem Gebrauch

- Kontaminiertes Instrument schnellstmöglich aufbereiten.
- Gelenkinstrument in einem 90°- Winkel öffnen.
- Bei maschineller Reinigung, Instrument auf reinigungsgerechte Siebkörbe legen (Spülschatten vermeiden).
- Zerlegbares Instrument in Einzelteile zerlegen.
- Vorzugsweise trocken entsorgen.
- Bei Nassentsorgung reinigungsaktive Desinfektionsmittel verwenden. Vor maschineller Reinigung und Desinfektion Instrument gründlich mit klarem, fließendem Wasser spülen.
- Falls nötig, Ultraschallbehandlung nach den Anweisungen des Geräteherstellers durchführen:
  - als effektive mechanische Unterstützung bei manueller Reinigung,
  - zur Vorbehandlung von Instrumenten mit angetrockneten Verschmutzungen vor der maschinellen Reinigung.
- Mikroinstrumente und Instrumente mit feinen Arbeitsenden sollten möglichst nicht im Ultraschall, sondern nur manuell oder maschinell gereinigt werden. Bei maschineller Reinigung Mikro-Instrumente in geeigneten Lagerungshilfen lagern.
- Manuell oder maschinell reinigen. Herstellerangaben beachten.

Manuelle Reinigung/Desinfektion

- Instrument in ein geeignetes reinigungsaktives Desinfektionsmittel legen, so dass alle Oberflächen, Hohlräume, Lumen und Öffnungen bedeckt sind. Anweisungen des Desinfektionsmittelherstellers beachten.
- Nach der chemischen Desinfektion immer ausreichend und intensiv mit klarem und fließendem Wasser abspülen. Anweisungen des Desinfektionsmittelherstellers beachten.
- Anhaftende Verschmutzungen mit einer weichen Kunststoffbürste entfernen. Keine scheuernden Reinigungsmittel oder Metallbürsten verwenden.
- Lumen und Kanäle mit weichen Rund bürsten aus Kunststoff reinigen. Die Durchmesser von Lumen und Bürste müssen einander entsprechen.
- Schlussspülung mit destilliertem oder vollentsalztem Wasser durchführen.
- Instrument mit saugfähigem, weichem und fusselfreiem Tuch trocknen.
- Lumen und Kanäle mit Druckluft trocknen.

Maschinelle Reinigung/Desinfektion

- Bei der Programmwahl das Material (z.B. nichtrostender Instrumentenstahl, Aluminium) des zu reinigenden Instruments berücksichtigen. Anweisungen des Geräteherstellers beachten.
- Schlussspülung mit vollentsalztem Wasser durchführen.
- Ausreichende Trocknungsphase einhalten.
- Instrument sofort nach Beendigung des Programms aus der Maschine nehmen.

Reprocessing, Care & Maintenance – Aufbereitung, Pflege & Reinigungshinweise

Proper Maintenance of Instruments

Instrumentenpflege richtig gemacht

Pflege/Prüfung

- Instrument auf Raumtemperatur abkühlen lassen.
- Bewegliche Teile (z.B. Gelenke und Schlüsse) mit sterilisierbarem, dampfdurchlässigem Pflegeöl leicht ölen (z.B. Sterilit Ölspray JG600 oder Sterilit Instrumenten-Öl JG598).
- Nach jeder Reinigung, Desinfektion, Instrument prüfen auf Sauberkeit, Funktion und Beschädigungen, z.B. verbogene, zerbrochene, rissige, abgenutzte und abgebrochene Teile.
- Beschädigtes und defektes Instrument aussortieren und ersetzen.

Packen

- Instrument mit feinem Arbeitsende und/oder mikrochirurgisches Instrument in geeigneten Lagerungshilfen lagern.
- Instrument mit Sperre in der ersten Raste fixieren.

Sterilisation

- Sterilisieren mit Dampf, dabei folgendes beachten: Die Dampfsterilisation hat nach einem validierten Dampfsterilisationsverfahren (z.B. Sterilisator gemäß DIN 285 und validiert gemäß DIN EN ISO 17665-1) zu erfolgen. Bei einer Anwendung des fraktionierten Vakuumverfahrens ist die Sterilisation mit dem 134°C -/ 2 bar-Programm bei einer Mindesthaltezeit von 5 Minuten durchzuführen.







Empfohlene Produkte



STERILIT®

JG600

Aesculap Ölspray in Sprühdose (FCKW-frei), zur Instrumentenpflege vor der Sterilisation.

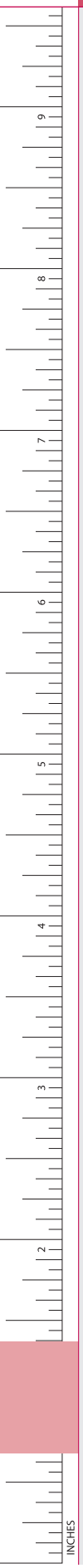


STERILIT®

JG598

Aesculap Instrumenten-Öl, zum Ölen der Schlüsse, Sperren usw. vor der Sterilisation.

Ausführliche Informationen zur Aufbereitung individueller Aesculap Produkte finden Sie in der Datenbank "Aufbereitung/Gebrauchsanweisungen" im Internet unter:
www.aesculap-extra.net


INCHES

A – Z, 0 – 9

Index
Inhalt

Alphabetical Index
A - B

	Page
A	
Abdominal aortic aneurysm, BipoJet indications	294, 295
Abdominal frame	433-437
Abdominal frame retractors	430-437
Abdominal retractor blades	436, 437
Abdominal retractors	450-456, 458, 459, 461
Abdominal retractors, fixation device	461
mounting frame	460
Abdominal spatula	457
Accessories, flat panel display	282, 283
insufflator	286, 287
irrigation pump	288, 289
Xenon light source	278, 279
Acculan 3Ti battery	4
charger	4
lid	4
oscillating saw	4
protecting guide	4
reciprocating saw	4
sterile funnel	4
sternotomy saw blades	1-4
sternum saws	1-4
Adapter cables, HF	305
Adapter, Xenon light source	278, 279
ADLERKREUTZ, vascular and tumor forceps	578
ADSON, delicate dissecting forceps	565
delicate hemostatic forceps	585, 586
delicate tissue forceps	571-573
DUROGRIP dissecting forceps	562
elevators	339
monopolar forceps	328
nerve and vessel hooks	226
self-retaining retractors	426
suction cannulae	650
TITANIUM tissue forceps	17
ADSON-BABY, self-retaining retractors	426
ADSON-BROWN, tissue forceps	573
AdTec instruments	238-245, 248-263
AESCULAP, DUROGRIP needle holders	641
sponge and dressing forceps	465
ALEXANDER, raspatories	344
ALLENBERG, ATRAUMATA vascular clamps	143
carotid retractor	422
iliaca retractor	421
instruments for pulling through vascular grafts	214
ALLIS, ATRAUMATA organ and tissue grasping forceps	612, 613
ATRAUMATA tissue grasping forceps	242, 243
organ and tissue grasping forceps	614, 615
ALLIS-ADAIR, organ and tissue grasping forceps	613
ALLIS-THOMS, organ and tissue grasping forceps	615
ALLISON, lung spatula	400
ALLPORT, self-retaining retractors	420
ALM, self-retaining retractors	419
Anastomosis clamps	181, 182
ANGLE, wire cutters	370
Aorta punches	208
Aorta valve retractors	413
Aortic arch, vascular prostheses	187, 194
Aortic hooks	412
Appliers, clip	98-105, 110, 112, 113, 115
endo vessel clip	110
Applying forceps, bulldog clamps	118
clip	112, 113, 115
Approximators, micro	113
mini vascular clips	112
nerve	114
Archnoid blades	491
Arteriotomy scissors	524
ATRAUMATA, bulldog clamps	121-126
cava occlusion clamps	174
clamps	265
dissecting forceps	560, 561
endo vessel clips	111
fixation forceps	254, 255
forceps	16
lung forceps	244, 245
mini bulldog clamps	120
monopolar forceps	330
myocardium grasping forceps	611
organ grasping forceps	469, 610-612, 616
profunda clamps	137
subclavian clamps	136
tissue grasping forceps	242, 243, 469, 610-612, 616
TITANIUM forceps	16
TITANIUM vascular clamps	19-29
toothing	558
ultra-light-forceps	559
universal forceps	244, 245
vascular clamps	128-179, 252-257, 260, 261
vascular clips	117
Atrium retractors	414-417
AUSTIN, micro suture tying forceps	61
Axel 180 xenon light sources	276, 277
B	
BABCOCK, ATRAUMATA organ and tissue grasping forceps	610, 611
tissue grasping forceps	242, 243, 252, 253
BABY-ADSON, dissecting and ligature forceps	600
BABY-ALLIS, organ and tissue grasping forceps	613
BABY-CRILE, delicate hemostatic forceps	582
BABY-CRILE-WOOD, DUROGRIP needle holders	628
BABY-METZENBAUM, dissecting scissors	496, 531
DUROTIP dissecting scissors	504, 509
Supercut dissecting scissors	517
BABY-MIXTER, dissecting and ligature forceps	599
BABY-MOSQUITO (HARTMANN), delicate hemostatic forceps	580
BABY-OVERHOLT, dissecting and ligature forceps	599

	Page
BABY-SATINSKY, anastomosis clamps	181
BACKHAUS, towel clamps	473
BACKHAUS-KOCHER, towel clamps	473
BAILEY, rib contractors	382
Ball electrodes	321, 322, 325
Ball electrodes, single use	321
Bandage scissors	556, 557
BARRAQUER, micro needle holders	84
self-retaining retractors	420
BARRÉ, bipolar forceps	307
dissecting forceps	606
scalpel handle	484
vascular scissors	543
BARRON, scalpel handle	483
suction cannulae	652
BARTH, bone curettes	347
Battery, Acculan 3Ti	4
BAUMGARTNER, DUROGRIP needle holders	627
DUROGRIP wire twisters	377, 635
Bayonet-shaped dissecting forceps	570
BENGOLEA, delicate hemostatic forceps	588
BERNHARD, towel clamps	473
BERRY, DUROGRIP wire twisters	376, 635
BETHUNE, rib shears	354
BEYER, bone rongeurs	361
BiBox, Nelson	305
BIEMER, approximator for nerves	114
clip applying forceps	112, 113
micro approximators	113
vessel clips	112, 113
BIEMER-MÜLLER, micro approximators	113
vessel clips	113
BipoJet clamps	294-299, 304
dissecting scissors	294-299, 302, 303
forceps	294-299, 306-308
BipoJet indications, abdominal aortic aneurysm	294, 295
carotis operations	296, 297
operations in the groin	298, 299
Bipolar, clamps	294-299, 304
coagulation forceps	309-313
connecting cables	314-316
dissecting scissors	294-299, 302, 303
forceps	294-299, 306-313
hand switches	294, 295, 305
BIRKETT, delicate hemostatic forceps	588
Blades, archnoid	491
disposable scalpel	487, 488, 491
retractor	436
retractor, abdominal	436
scalpel	266, 487, 488, 491
sternotomy saw	4
BLAKE, embolus grasping forceps	209
Bone curettes	347-351
Bone cutting forceps	356-360
Bone holding forceps	367
Bone rongeurs	361-366
BONNER MODELL, micro suture tying forceps	60
BOROWSKI, aorta valve retractors	413
BORST, fixation clamps	183
BOYS-ALLIS, organ and tissue grasping forceps	613
BRAUN-STADLER, sternum shears	353
BRODIE, directors	228
BROM, vein hook	225
Bronchus clamps	184, 185
BROPHY, delicate dissecting forceps	568
BROWN, tissue forceps	573
BRUNNER, abdominal retractors	454
rib shears	355
BRUNS, bone curettes	349, 351
Bulldog clamps	118, 119, 214
ATRAUMATA	120-126
glue application	127
mini	120
Bulldog scissors	520
Bypass, sutures	64, 65
vein harvesting	106-109
BÖHLER, bone cutting forceps	358
bone rongeurs	361

C

	Page
Cables, bipolar	314-316
camera	272, 273
fibre optic light	109
HF adapter	305
light guide	278, 279
monopolar	317, 324, 332, 333
CAIRNS, delicate hemostatic forceps	583
CAIRNS-DOTT, delicate dissecting forceps	567
Camera cable	272, 273
Camera head	272, 273
Camera systems, 3-Chip Full HD	272, 273
Cannulae, coagulation	331
injection	246
micro	649
suction	331, 644-653
VERRES	286, 287
vessel irrigating	209
Carbon steel, disposable scalpels	477-481
scalpel blades	487, 488
Cardiac pacemaker set, SUSI	234
Cardiac pacing wire, temporary	638, 639
Cardiac valve forceps	579
Care and maintenance	32-35
Carotid retractors	422
Carotid shunt clamps	183
Carotis operations, BipoJet indications	296, 297
Carts, endoscopy	290, 291
CASPAR, exploration hooks	227

	Page
CASPAR, raspatories	341
scalpel handles for micro scalpel blades	489
CASTROVIEJO, DUROGRIP micro needle holder	81, 82
micro needle holders	87
Cava occlusion clamps, ATRAUMATA	174
Cerclage wires	369
Charger, Acculan 3Ti	4
3-Chip Full HD camera system	272, 273
Chisels, sternum	353
Clamps, anastomosis	181, 182
ATRAUMATA	19-29, 265
ATRAUMATA bulldog	121-126
ATRAUMATA cava occlusion	174
ATRAUMATA mini bulldog	120
ATRAUMATA profunda	137
ATRAUMATA subclavian	136
ATRAUMATA vascular	128-179, 252-257, 260, 261
BipoJet	294-299, 304
bipolar	294-299, 204
bronchus	184, 185
bulldog	118, 119, 214
carotid shunt	183
fixation	183
glue application	183
glue application bulldog	127
TITANIUM	19-29
towel	473-476
tubing	472
vascular	19-29, 128-179, 184, 250-257, 260, 261
Cleaning of instruments	664-666, 668
Clip appliers	98-105, 110
Clip applying forceps	112, 113, 115
Clips, ATRAUMATA endo vessel	111
ATRAUMATA vascular	117
endo vessel	111
titanium ligature	98, 100, 102, 104
vascular	112, 113, 115
vessel	112, 113, 115, 116
Cloth scissors	556, 557
CO_2 filter	286, 287
Coagulation cannula	331
Coagulation forceps, bipolar	309-313
Cobra vascular clamps	143
Cold light retractors	396, 397
COLLER, delicate hemostatic Forceps	584
COLLIN, ATRAUMATA organ and tissue grasping forceps	469, 616
organ and tissue grasping forceps	469, 617, 618
sponge and dressing forceps	470
Connecting cables, bipolar	314-316
monopolar	317, 324, 332, 333
Container	656-659
Contractors, rib	382
CONVERSE, DUROGRIP needle holders	626
COOLEY, ATRAUMATA bulldog clamps	126
ATRAUMATA cava occlusion clamps	174

	Page
COOLEY, ATRAUMATA dissecting forceps	561
ATRAUMATA vascular clamps	130, 131, 166-179
ATRAUMATA atrium retractors	414-416
sternum retractors	392
suction cannulae	644, 645
vascular scissors	544, 550
COOLEY MODIF. STRUCK, atrium retractors	417
COOLEY-BECK, ATRAUMATA vascular clamps	168
COOLEY-SATINSKY, ATRAUMATA vascular clamps	167, 177
COOPER, surgical scissors	552-555
Coronar retractor	418
Coronary arteries, sutures	64, 65
CORYLLOS, lung spatula	401
retractors	401, 437
COTTLE, bulldog scissors	520
raspatories	341
wound and vein retractors	439
COTTLE-KNAPP, dissecting scissors	521
COTTLE-MASING, dissecting scissors	521
CRAFOORD, ATRAUMATA endo vascular clamps	254, 255
delicate hemostatic forceps	589
vascular clamps	180
CRAFOORD-SELLORS, vascular clamps	180
CRILE, delicate hemostatic forceps	582, 584
nerve and vessel hooks	225
CRILE-WOOD, DUROGRIP needle holders	628
Curettes, bone	347-351
CUSHING, delicate dissecting forceps	568
DUROGRIP dissecting forceps	563
nerve and vessel hooks	225, 227
tissue forceps	577
wound and vein retractors	440, 442
CUSHING-KOCHER, wound and vein retractors	439
Cutters, wire	370-375
Cutting electrodes	320
CV Pass, sutures	62-65

D

DALE, ATRAUMATA vascular clamps	137
DANDY, delicate hemostatic forceps	581
DAVIDSON, scapula retractors	402
DAVIS, vascular spatula	218
DE BAKEY, arteriotomy scissors	524
ATRAUMATA bulldog clamps	121, 122
ATRAUMATA clamps	128-179, 252-255, 265
ATRAUMATA dissecting forceps	560, 561
ATRAUMATA endo vessel clips	111
ATRAUMATA fixation forceps	254, 255
ATRAUMATA vascular clamps	128-179, 252-255
DUROGRIP needle holders	631, 632
DUROTIP vascular scissors	550
offset scissors	551
DE BAKEY, rib spreaders	389, 390

	Page
DE BAKEY, suction cannulae	646, 647
TITANIUM ATRAUMATA vascular clamps	19-29
TITANIUM forceps	16
vascular dilators	210
vascular scissors	548
DE BAKEY (LAMBERT MODIF.), ATRAUMATA vascular clamps	162
DE BAKEY (MORRIS MODIF.), ATRAUMATA vascular clamps	152
DE BAKEY (SEMB MODIF.), ATRAUMATA vascular clamps	154
DE BAKEY mod. ALIMI, ATRAUMATA vascular clamps	262, 263
DE BAKEY mod. EDOGA, ATRAUMATA vascular clamps	260, 261
DE BAKEY-BAINBRIDGE, ATRAUMATA vascular clamps	132
DE BAKEY-BECK, ATRAUMATA vascular clamps	140
DE BAKEY-HARKEN, ATRAUMATA vascular clamps	140
DE BAKEY-HESS, bulldog clamps	119
DE BAKEY-MC QUIGG-MIXTER, ATRAUMATA vascular clamps	135
DE BAKEY-MIXTER, ATRAUMATA vascular clamps	135
DE BAKEY-PEAN, ATRAUMATA vascular clamps	133
DE BAKEY-RUMEL, ATRAUMATA vascular clamps	135
DE BAKEY-SATINSKY, ATRAUMATA vascular clamps	142
DEAVER, retractors	405-410
Delicate dissecting forceps	565-568
Delicate dissecting scissors	522, 534, 535
Delicate hemostatic forceps	580-589
Delicate scissors	533, 535-541
Delicate scissors, DUROTIP	500
Supercut	512
Delicate tissue forceps	571-575
DEMEL, wire tightening and twisting forceps	369
DERF, DUROGRIP needle holders	626
DERRA, ATRAUMATA vascular clamps	131
DERRA-COOLEY, ATRAUMATA vascular clamps	169
DESMARRES, wound and vein retractors	439
DIA DUST, dissecting forceps	563
forceps	10, 11
micro forceps	10, 11, 48-55, 94, 95
micro needle holders	12, 13, 68-77, 95
needle holders	12, 13, 15, 78, 79
Diamond knives	492, 493
DICK, ATRAUMATA vascular clamps	149
DIEFFENBACH, bulldog clamps	118
DIETHRICH, ATRAUMATA vascular clamps	159
bulldog clamps	119
vascular scissors	548
DIETHRICH-HEGEMANN, vascular scissors	548
DIETRICH-POTTS, vascular scissors	546-548
Digital documentation system	280-283
Dilators, vascular	210, 211
Directors	228
Directors, grooved	221
Disinfection of instruments	664-666, 668
Display, flat panel	282, 283
flat panel Full HD	274, 275
Disposable scalpel blades, carbon steel	487, 488
stainless steel	487, 488, 491
Disposable scalpels	480, 482

	Page
Disposable scalpels, carbon steel	477-481
stainless steel	480, 481
Disposable SUSI instruments	232-235
Dissecting forceps	17, 18, 238, 239, 244, 245, 250, 251, 569, 599-609
Dissecting forceps, ATRAUMATA	560, 561
bayonet-shaped	570
delicate	565-568
DIA DUST	563
DUROGRIP	562-564
monopolar	330
Dissecting hooks	442
Dissecting scissors	239, 248, 249, 504, 514-517, 520, 521, 523-532, 543
Dissecting scissors, BipoJet	302, 303
bipolar	294-299
delicate	522, 534, 535
DUROTIP	502, 503, 505-507
DUROTIP with wavecut	508-510
micro	45
nerve	535
NOIR	494-499
Supercut	514-517
tungsten carbide	502-511
Dissection spatula	246
Dissectors	218-221, 339, 340
Dissectors, intima	222
phlebo	217
vein	109
DIXON-LOVELACE, delicate hemostatic forceps	585
Documentation system, digital	280-283
DOYEN, raspatories	346
Drainage set, SUSI thorax	235
Draw-in forceps, vascular prostheses	214
Dressing forceps	464-468, 470, 471
DUNHILL, delicate hemostatic forceps	582, 587
Dura scissors	542
DUROGRIP, dissecting forceps	562-564
ligature forceps	635
micro needle holders	80-83
needle holders	258, 264, 622-629, 631-634, 640-643
needle holders with scissors	630
sternum needle holder	635
suture forceps	264, 564
wire holding forceps	377
wire twisters	376, 377, 635
DUROTIP, delicate scissors	500
dissecting scissors	502-507
dissecting scissors with wavecut	508-510
ligature scissors	500
ligature scissors with wavecut	265, 508, 511
material scissors	501
scissors with wavecut	265
surgical scissors	501

	Page
DUROTIP, surgical scissors with wavecut	508
vascular scissors	550
DUVAL, organ and tissue grasping forceps	619
DUVAL-COLLIN, organ and tissue grasping forceps	618

E

ECHLIN, bone rongeurs	362
Eddy digital documentation system	280-283
Electrode handles, monopolar	317-319, 324
single use	319
Electrode set, Steelex	638, 639
Electrodes, ball	321, 322, 325
cutting	320
knife	320, 322
loop	320, 325
monopolar	320-323, 325
needle	320-323, 325
plate	321
wire loop	322, 323
Electrosurgical unit, Nelson deluxe	300, 301
Elevators	218, 219, 222, 223, 339, 340
Elevators, endo pleural	247
Embolus grasping forceps	209
Endarterectomy strippers	212
Endo ligature needle	267
Endo lung grasping forceps	242, 243
Endo pleural elevators	247
Endo vessel clip appliers	110
Endo vessel clip removers	110
Endo vessel clips, ATRAUMATA	111
Endo vessel scissors	248, 249
Endo vessel spatula	246
Endoscopes, Full HD	282, 283
Endoscopy carts	290, 291
Epicard retractors	419
Exploration hooks	227
Extractors, phleb	217

F

Fan retractor	267
FARABEUF, raspatories	342
FARABEUF-COLLIN, raspatories	342
FAVOLORO, cardiovascular scissors	551
FERGUSSON, bone holding forceps	367
suction cannulae	651, 653
FERRIS-SMITH, DUROGRIP dissecting forceps	564
Fibre optic light cables	109
FICKLING, hemostatic forceps	595
Filter, CO_2	286, 287
FINOCHIETTO, dissecting and ligature forceps	605
DUROGRIP needle holders	634
FINOCHIETTO, rib spreaders	385-387
thoracic retractors	383, 384
FINOCHIETTO-BURFORD, rib spreaders	388
FINSTERER, suction cannulae	647
Fistula probes	228
Fixation clamps	183
Fixation device, abdominal retractors	461
Fixation forceps	238, 239, 250, 251
Fixation forceps, ATRAUMATA	254, 255
tube	474
Flat panel display	282, 283
Flat panel display, accessories	282, 283
Full HD	274, 275
Flexible trocars	268, 269
Flow40 insufflator	284, 285
Fluid3 irrigation pump	288, 289
FOERSTER-BALLENGER, sponge and dressing forceps	468
FOMON, dissecting scissors	521
Supercut scissors	513
Forceps, applying, bulldog clamps	118
ATRAUMATA dissecting	560, 561
ATRAUMATA fixation	254, 255
ATRAUMATA lung	244, 245
ATRAUMATA myocardium grasping	611
ATRAUMATA organ grasping	469, 610-612, 616
ATRAUMATA tissue grasping	242, 243, 469, 610-612, 616
ATRAUMATA ultra-light	559
ATRAUMATA universal	244, 245
ATRAUMATA TITANIUM	16
BipoJet	294-299, 306-308
bipolar	294-299, 306-313
bone cutting	356-360
bone holding	367
cardiac valve	579
clip applying	112, 113, 115
coagulation	309-313, 328-330
DIA DUST	10, 11, 48-55, 94, 95
dissecting	17, 18, 238, 239, 244, 245, 250, 251, 330, 562-564, 569, 599-609
dissecting, bayonet-shaped	570
dissecting, delicate	565-568
dressing	464-468, 470, 471
DUROGRIP	377, 562-564
DUROGRIP suture	264
embolus grasping	209
endo lung grasping	242, 243
fixation	238, 239, 250, 251
grasping	18, 240, 241, 244, 245
hemostatic	584-598
hemostatic, delicate	580-589
ligature	116, 599-609
ligature, DUROGRIP	635
lung grasping	579
micro	10, 11, 48-61, 94, 95
micro, jeweler patterns	59-61

	Page
Forceps, monopolar	326-330
organ grasping	468, 470, 471, 613-615, 617-619
pike-mouth	240, 241
removing, bulldog clamps	118
reposition	368
rib holding	367
sample excision	240, 241
sponge	464-468, 470, 471
suture	564
suture tying	58
suture tying, jeweler patterns	59-61
swab	240, 241
tissue	17, 18, 240, 241, 573, 576-578
tissue grasping	242, 243, 252, 253, 468, 470, 471, 613-615, 617-619
tissue, delicate	571-575
TITANIUM	10, 11, 16-18
tube fixation	474
tumor	578
tungsten carbide	562-564
vascular	578
wire holding	377
wire tightening	369
wire twisting	369
FORMBY, suction cannulae	652
Frame, abdominal	433-437
FRASER-KELLY (CRILE), delicate hemostatic forceps	586
FRAZIER, suction cannulae	651
FREER, dissectors	219, 339, 340
elevators	339, 340
raspatories	339, 340
FREER-YASARGIL, raspatories	340
FRENCH EYE, DUROGRIP needle holders	626
FRITSCH, abdominal retractors	456
FRYKHOLM, bone rongeurs	362
FUCHSIG, delicate hemostatic forceps	585
Full HD endoscopes	282, 283
Full HD flat panel displays	274, 275

G

GARRETT, vascular dilators	211
GEMINI, dissecting and ligature forceps	603
GERALD, delicate dissecting forceps	567
delicate tissue forceps	575
micro forceps	52, 53
TITANIUM dissecting forceps	18
TITANIUM tissue forceps	18
GIERTZ-STILLE, rib shears	355
GIL VERNET, wound and vein retractors	441
GILLIES, delicate dissecting forceps	567
delicate tissue forceps	575
DUROGRIP needle holders with scissors	630
GILLIES, monopolar forceps	328
GLASSER, DIA DUST micro needle holder	76
GLOVER, ATRAUMATA bulldog clamps	121, 122, 125
ATRAUMATA vascular clamps	139
TITANIUM ATRAUMATA vascular clamps	22
GLUCK, rib shears	354
Glue application, bulldog clamps	127
clamps	183
GNAUERT, abdominal frame retractor	430, 434-437
GOLDMAN-FOX, DUROTIP delicate scissors	500
Supercut scissors	513
Golfball instruments	6-13, 55, 77, 82, 93
GOSLEE, wire holding pliers	378
GRAEFE, delicate tissue forceps	573
dissecting scissors	520
nerve and vessel hooks	224
Grasping forceps	18, 240, 241, 244, 245
Grasping forceps, ATRAUMATA myocardium	611
ATRAUMATA organ	469, 610-612, 616
ATRAUMATA tissue	242, 243, 469, 610-612, 616
embolus	209
endo lung	242, 243
lung	579
organ	468-471, 613-615, 617-619
tissue	242, 243, 252, 253, 468-471, 613-615, 617-619
GREGORY, ATRAUMATA bulldog clamps	123, 124
ATRAUMATA profunda clamps	137
GREGORY MODIF., ATRAUMATA bulldog clamps	124
GREY-TURNER, delicate hemostatic forceps	587
Grooved directors	221
GROSS, sponge and dressing forceps	464
GRUENWALD, dissecting forceps, bayonet-shaped	570
DUROGRIP dissecting forceps	563
Guide instrument, knot	266
Guides	212

H

HABERER, abdominal spatula	457
HAIGHT, rib spreaders	386
HALLE, dissectors	219
elevators	339
HALSEY, DUROGRIP needle holders	627
HALSTED, delicate hemostatic forceps	585
HALSTED-MOSQUITO, delicate hemostatic forceps	580, 586
Hand switches	296-299
Hand switches, bipolar	294, 295, 305
Handles, electrode	317-319, 324
irrigation	209
monopolar	317-319, 324
scalpel	266, 483-486, 489, 490
scalpel, micro blades	489, 490
suction	209

Alphabetical Index
H - K

	Page
Handles, Vario retractor system	396
HARRINGTON, lung spatula	398
retractors	398
HARRINGTON-PEMBERTON, lung spatula	399
retractors	399
HARVEY, wire cutting pliers	372
wire cutting scissors	371
HASSON, retractors	404
HEANEY, ATRAUMATA vascular clamps	164
DUROGRIP needle holders	633
Heart valve replacement, sutures	62, 63
HEGAR, DUROGRIP needle holders	629
HEGAR-MAYO, DUROGRIP needle holders	629
HEGAR-MAYO-SEELEY, DUROGRIP needle holders	628
HEGAR-OLSEN, DUROGRIP needle holders with scissors	630
HEGAR-OLSEN MODIF. LANGE, DUROGRIP needle holders with scissors	630
HEISS, delicate hemostatic forceps	587
dissecting and ligature forceps	604
HELLBERG-KUPKA, DUROGRIP needle holders	624
Hemostatic forceps	584-598
Hemostatic forceps, delicate	580-589
HENDERSON, self-retaining retractors	427
HENDREN, vascular clamps	182
HENLY, ATRAUMATA subclavian clamps	136
self-retaining retractors	426
Heparin needles	209
HERTZLER, rib spreaders	385
HEYWOOD-SMITH, organ- and tissue grasping forceps	471
sponge and dressing forceps	470, 471
tissue and swab forceps	240, 241
HEYWOOD-SMITH MODIF., sponge and dressing forceps	470
HF adapter cable	305
HF units	300, 301
High pressure tube	286, 287
HÖSEL, abdominal retractors	453
DUROGRIP needle holders	642
HOHENFELLNER, vascular scissors	544
Holding arm, UNITRAC	430-437
Hooks, aortic	412
dissecting	442
exploration	227
nerve	224-227
suture	266
vein	225
vessel	224-227
HOPT, ATRAUMATA vascular clamps	134
HUDSON, delicate dissecting forceps	565
delicate tissue forceps	573

I

I.M.A. retractors	419
Iliaca retractors	421
Injection cannula	246
Instrument oganisation system	32-35
Instrument storage	32-35
Instruments for shunt operations	92-95
Instruments, AdTec	238-245, 248-263
knot guide	266
laparoscopy	248-265, 268-270
maintenance of	660-666, 668
micro	6-9
retraction	267
SUSI	232-235
thoracoscopy	238-247
TITANIUM	6-9, 14
tunneling	213
Insufflator, accessories	286, 287
Flow40	284, 285
Intima dissectors	222
Irrigating cannulae, vessel	209
Irrigation handle	209
Irrigation pump, accessories	288, 289
Fluid3	288, 289
IRWIN, self-retaining retractors	429

J

JACOBSON, bone curettes	347
delicate hemostatic forceps	581, 586
micro needle holders	88
micro scissors	45
JAMESON, dissecting scissors	523
Supercut dissecting scissors	514
JAMESON-WERBER, dissecting scissors	523
JANSEN, bone curettes	347
self-retaining retractors	420
JAVID, carotid shunt clamps	183
JEFFERSON, delicate tissue forceps	572
self-retaining retractors	427
JENKNER, instruments for tunneling and pulling-through vascular grafts	213
JOHNS-HOPKINS, applying and removing forceps	118
bulldog clamps	118
JOSEPH, delicate scissors	533, 541
raspatories	337
Supercut dissecting scissors	514
JUDD-ALLIS, organ and tissue grasping forceps	615

K

KANTROWITZ, dissecting and ligature forceps	606
KAZANJIAN, bone cutting forceps	356
KELLY, abdominal retractors	452
delicate hemostatic forceps	581
delicate scissors	541

	Page
KELLY, retractor	437
KEY, raspatories	344
KIEFER, ATRAUMATA universal and lung forceps	244, 245
KILLIAN, raspatories	340
KILNER, dissecting scissors	520, 523
DUROGRIP needle holders	627
Kits, SUSI procedure	232-235
KLAPP, wound and vein retractors	438
KLEINE, ATRAUMATA myocardium grasping forceps	611
KLINKENBERG-LOTH, vascular scissors	545
Knife electrodes	320, 322
Knives, diamond	492, 493
Knot guide instrument	266
KOCHER, hemostatic forceps	593
retractors	443, 445, 448
wound and vein retractors	439
KOCHER-LANGENBECK, retractors	447
KOCHER-OCHSNER, hemostatic forceps	594
KRAYENBÜHL, nerve and vessel hooks	226
KRÄMER, raspatories	343
KÖNIG, elevators	222
raspatories	336
wound and vein retractors	439

L

LAHEY, dissecting and ligature forceps	609
LAHEY (SWEET), dissecting and ligature forceps	609
LAMBERT-KAY, ATRAUMATA vascular clamps	162
TITANIUM ATRAUMATA vascular clamps	23
LAMBOTTE, raspatories	344
LANDOLT, coagulation and suction cannula	331
dissecting scissors	521
raspatories	341
scalpel handles for micro scalpel blades	490
LANGENBECK, bone holding forceps	367
raspatories	342, 343
retractors	446-448
Laparoscopy instruments	248-265, 268-270
LAWRENCE, dissecting and ligature forceps	607
LAZAR, micro suture tying forceps	61
LEBSCHE, sternum chisels	353
LEES, ATRAUMATA vascular clamps	153
LEITZ, ATRAUMATA vascular clamps	175
LEKSELL, bone rongeurs	362
LEKSELL-STILLE, bone rongeurs	363
LELAND-JONES, ATRAUMATA vascular clamps	148
LEMMON, intima dissectors	222
LEMOLE-STRONG, ATRAUMATA vascular clamps	155
LEMPERT, bone curettes	350
raspatories	338
suction cannulae	652
LERICHE, delicate hemostatic forceps	583
retractors	411
LEXER, dissecting scissors	498, 529
DUROTIP dissecting scissors	503, 508
LICHTENBERG, DUROGRIP needle holders	642
Lid retractors	439-442
Lid, Acculan 3Ti	4
Ligature clips, titanium	98, 100, 102, 104
Ligature discs	369
Ligature forceps	116, 599-609
Ligature forceps, DUROGRIP	635
Ligature needles, endo	267
Ligature scissors, DUROTIP	500
DUROTIP with wavecut	265, 508, 511
micro	41, 93
Light guide cables	109, 278, 279
Light guide cables tester	278, 279
Light sources, Xenon	276, 277
Xenon, accessories	278, 279
LINDER, endo lung grasping forceps	242, 243
LISTER, bandage scissors	556
bandage and cloth scissors	557
LISTON, bone cutting forceps	357, 359
LISTON-KEY-HORSLEY (TUDOR EDWARDS), bone cutting forceps	360
LISTON-STILLE, bone cutting forceps	360
LITTLER, dissecting scissors	520
Liver retractors	437
LOCKHART-MUMMERY, fistula probes	228
LOCKLIN, delicate scissors	540
LOCKWOOD, organ and tissue grasping forceps	618
Loop electrodes	320, 325
Loop, retraction	66, 67
LORNA, Towel clamps	475
LOUTE, wire tightener	369
LOWER, dissecting and ligature forceps	609
LUER, bone rongeurs	361-366
LUER-STILLE, bone rongeurs	364, 365
Lung forceps, ATRAUMATA	244, 245
Lung grasping forceps	579
Lung grasping forceps, endo	242, 243
Lung spatula	398-401

M

MAC DONALD, raspatories	340
MAIER, sponge and dressing forceps	466
Maintenance of instruments	660-666, 668
Mammaria retractors	394, 395
Manipler	620, 621
MARBERGER, wound and vein retractors	441
MARBURG, wire holding pliers	378
MARQUARDT, bone rongeurs	361
MARTIN, abdominal retractors	455
MARTINI, bone curettes	347
MARYLAND, fixation and dissecting forceps	238, 239, 250, 251

	Page
MASING, DUROGRIP needle holders	626
wound and vein retractors	439
MASSON, DUROGRIP needle holders	634
MASSOUD, grasping and dissecting forceps	244, 245
Material scissors	552-557
Material scissors, DUROTIP	501
MATHIEU, DUROGRIP needle holders	643
MATSON, raspatories	338
MAYFIELD, bone rongeurs	361
MAYO, dissecting scissors	498, 526, 527, 530
DUROTIP dissecting scissors	502, 508
Supercut dissecting scissors	515, 516
MAYO-HARRINGTON, dissecting scissors	528
MAYO-LEXER, dissecting scissors	498, 529
DUROTIP dissecting scissors	503, 508
MAYO-STILLE, dissecting scissors	526, 527
MC INDOE, bone cutting forceps	358
delicate dissecting forceps	567
delicate tissue forceps	575
monopolar forceps	328
MC KENTY, raspatories	336
MC KISSOCK, raspatories	343
MEHDORN, clip applying forceps	112
vessel clips	112
Mercedes retractors	393
METZENBAUM, bipolar dissecting scissors	302, 303
delicate dissecting scissors	534
dissecting scissors	239, 248, 249, 497-499, 531
DUROTIP dissecting scissors	505, 506, 509, 510
scissors	238
Supercut dissecting scissors	517
Micro approximators	113
Micro dissecting scissors	45
Micro forceps	48-61, 94, 95
Micro forceps, DIA DUST	48-55, 94, 95
TITANIUM	6, 7, 10, 11
Micro instruments, TITANIUM	6-9
Micro ligature scissors	41, 93
Micro needle holders	84-91
Micro needle holders, DIA DUST	68-77, 95
DUROGRIP	80-83
smooth jaw	84-91
STREAMLINE	77
TITANIUM	12, 13
tungsten carbide (TC)	80-83
Micro scalpels, disposable	482
Micro scissors	36-47, 93
Micro suction cannulae	649
Micro suture tying forceps	58
Micro suture tying forceps, jeweler patterns	59-61
Micro vein scissors	43
MICRO-ADSON, delicate dissecting forceps	565
delicate tissue forceps	571
dissecting and ligature forceps	599
TITANIUM dissecting forceps	17

	Page
MICRO-ADSON, TITANIUM tissue forceps	17
MICRO-ADSON-BIEMER, delicate tissue forceps	571
MICRO-HALSTED, delicate hemostatic forceps	580
Microsurgical blades	491
MIDDELDORPF, retractors	449
MIKULICZ, abdominal retractors	450, 451
hemostatic forceps	598
MILLESI, micro scissors	44
MILLS, vascular scissors	549
Mini bulldog clamps, ATRAUMATA	120
Mini vascular clips	112, 113
MINI-METZENBAUM, dissecting scissors	248, 249
MIXTER, dissecting and ligature forceps	607, 609
MIXTER-O'SHAUGNESSY, dissecting and ligature forceps	604
MOLLISON, self-retaining retractors	427
Monoplar electrode handles	317-319, 324
Monopolar connecting cables	317, 324, 332, 333
Monopolar electrodes	320-323, 325
Monopolar forceps	326-330
Monopolar forceps, ATRAUMATA	330
Monosyn	621
MORRIS, ATRAUMATA vascular clamps	152
MORSE, delicate vascular scissors	541
sternum retractors	391
MOSQUITO, delicate hemostatic forceps	580
Mounting frames, abdominal retractors	460
MOYNIHAN, delicate hemostatic forceps	583
hemostatic forceps	597
MÜHLING, raspatories	341
MÜLLER, ATRAUMATA vascular clips	117
DUROGRIP needle holders	264
DUROGRIP suture forceps	264
ligature forceps	116
micro forceps	56, 57
micro needle holders	90, 91
micro scissors	46, 47
vessel clips	116
MÜNSTER, retraction systems	430-437
Myocardium grasping forceps, ATRAUMATA	611
Myrtle leaf probes	229

N

NABATOFF, vein stripper set	215
Needle electrodes	320-323, 325
Needle holders, DIA DUST	15, 68-79, 95
DUROGRIP	80-83, 258, 264, 622-629, 631-634, 640-643
micro	12, 13, 68-77, 80-91, 95
sternum wire	376, 377
SUPER-righting	259
TITANIUM	12, 13, 15
tungsten carbide	622-635, 640-643
with scissors, DUROGRIP	630

	Page
Needles, endo ligature	267
heparin	209
sternal puncture	352
NEGUS, hemostatic forceps	598
Nelson BiBox	305
Nelson deluxe electrosurgical unit	300, 301
NELSON, grasping forceps	240, 241
lung grasping forceps	579
NELSON-METZENBAUM, dissecting scissors	499, 532
DUROTIP dissecting scissors	505, 509, 510
NELSON-METZENBAUM (MC INDOE), DUROTIP dissecting scissors	506
Nerve approximators	114
Nerve dissecting scissors	523, 535
Nerve hooks	224-227
NISSEN, delicate hemostatic forceps	585
dissecting and ligature forceps	600
NOIR dissecting scissors	494-499
NOTO, organ and tissue grasping forceps	471
sponge and dressing forceps	471
Nurse's scissors	556

O

Obturators	270
OCHSNER, ATRAUMATA vascular clamps	159
O´CONNELL, dissectors	221
Offset scissors	551
Oil sprays, Sterilit	660-663, 665, 668
Olives, vein strippers	215, 216
Operations in the groin, BipoJet indications	298, 299
Organ grasping forceps	468-471, 613-615, 617-619
Organ grasping forceps, ATRAUMATA	611, 612, 616
Organisation system, instrument	32-35
ORMROD-SCHMITT, ligature disc	369
Oscillating saws	4
O'SHAUGNESSY, dissecting and ligature forceps	604, 606
OVERHOLT, dissecting and ligature forceps	600-605
dissecting forceps	250, 251
OVERHOLT-GEISSENDOERFER, dissecting and ligature forceps	601
OVERHOLT-MIXTER, dissecting and ligature forceps	601

P

Pacemaker set, SUSI	234
PARRY-COOLEY, ATRAUMATA vascular clamps	176
PARSONNET, self-retaining retractors	419
PARTSCH, raspatories	336
PARTSCH MOD. LANGE, raspatories	336
Patches, vascular	206, 207
PAUL, wound and vein retractors	438
PEAN, ATRAUMATA vascular clamps	133

	Page
PEAN, hemostatic forceps	590, 592, 597
Pediatric sternum retractors	383-385
Pediatric surgery, TITANIUM ATRAUMATA vascular clamps	29
PENFIELD, dissectors	220, 221
PENNINGTON, organ and tissue grasping forceps	617
PENNYBACKER, dissectors	221
raspatories	343
Peritoneal scissors	238, 239
PERWITZSCHKY, delicate scissors	539
Phleb extractors	217
Phlebo dissectors	217
Pike-mouth forceps	240, 241
Plate electrodes	321
Pledgets, PTFE, heart valve replacement	62, 63
PLESTER, suction cannulae	650
Pleural elevators, endo	247
Pliers, wire cutting	371, 372, 374, 375
wire holding	378, 379
POOL, suction cannulae	646
Poplitea retractors	422
POTTS, dissecting scissors	524
vascular scissors	546-548
POTTS-DE MARTEL, vascular scissors	548, 549
POTTS-DE-MARTELL acc. SAID, endo vessel scissors	248, 249
POTTS-SMITH, Supercut scissors	518
vascular scissors	544, 549
Power systems	1-4
PremiCron	62, 63
PremiCron, sternum closure	636, 637
Premilene	64, 65, 621
PRICE-THOMAS, vascular clamps	184
PrimeLine, sterile containers	656-659
Probes	229
Probes, fistula	228
myrtle leaf	229
with eye	229
Profunda clamps, ATRAUMATA	137
Prostheses, vascular	186-207
Protecting guide, Acculan 3Ti	4
Protection sleeves	248, 249
ProVena, vascular prostheses	204, 205
PROVIDENCE-HOSPITAL, delicate hemostatic forceps	581
Pump, irrigation, Fluid3	288, 289
Punches, aorta	208
Puncture needles, sternal	352

Q

QUERVAIN, elevators	223

	Page
R	
RAABE, micro suction cannulae	649
Rack for surgery electrodes	325
RAGNELL, delicate dissecting scissors	535
RAMPLEY, sponge and dressing forceps	468
RANKIN, delicate hemostatic forceps	584
Raspatories	336-346
REILL, micro needle holders	85
reposition forceps	368
wire cutting pliers	374
REIN-KUPKA, DUROGRIP needle holders	624
REMINGTON-HOBB, monopolar forceps	329
Removers, endo vessel clip	110
Removing forceps, bulldog clamps	118
Replacement bulb, Xenon light source	278, 279
Replacement camera cable	272, 273
Reposition forceps	368
Reciprocating saw	4
RESANO, cardiac valve forceps	579
TITANIUM grasping forceps	18
Retraction instruments	267
Retraction systems in vascular surgery	430-437
Retraction tape, Surgical Loop	66, 67
Retractor blades	436
Retractor blades, abdominal	436
Vario retractor system	397
Retractor system, Vario	396, 397
Retractors	398, 399, 401-417, 421, 422, 437, 443-456, 458, 459
Retractors, abdominal	450-456, 458, 459, 461
abdominal frame	430-437
abdominal, fixation device	461
abdominal, mounting frame	460
aorta valve	413
atrium	414-417
cold light	396, 397
coronar	418
epicard	419
fan	267
I.M.A.	419
lid	439-442
liver	437
mammaria	394, 395
mercedes	393
poplitea	422
scapula	402
self-retaining	92, 418-420, 423-429
self-retaining, carotid	422
self-retaining, iliaca	421
self-retaining, vascular	421, 422
sternum	383-395
sternum, pediatric	383-385
thoracic	383-395
valve	413
vein	438-442
Retractors, wound	438-442
REVERDIN, abdominal spatula	457
REYNOLDS, dissecting scissors	524
REYNOLDS-JAMESON, vascular scissors	535
Rib contractors	382
Rib holding forceps	367
Rib shears	354, 355
Rib spreaders	382, 384-395
Rib stripper	338
RIBBON, abdominal spatula	457
Rigid trocars	270
Ring retraction systems	430-437
ROBERTS, hemostatic forceps	596
ROBIN, towel clamps	474
ROCHARD, abdominal retractors	461
fixation device for abdominal retractors	461
mounting frame for abdominal retractors	460
ROCHESTER-CARMALT, hemostatic forceps	595
ROCHESTER-OCHSNER, hemostatic forceps	593
ROCHESTER-PEAN, hemostatic forceps	591
ROEDER, towel clamps	473
Rongeurs, bone	361-366
ROSS, aortic hooks	412
RUMEL, dissecting and ligature forceps	605
RUMEL-BELMONT, tourniquets	212
RUSKIN, bone rongeurs	361
RUSKIN-LISTON, bone cutting forceps	358
RUSS. MODELL, tissue forceps	578
RYDER, DIA DUST needle holders	78
DUROGRIP needle holders	623, 625
TITANIUM DIA DUST, needle holders	15
RÖTTGEN-RUSKIN, bone rongeurs	361
S	
Safety scalpels, carbon steel	477-479
Sample excision forceps	240, 241
SAROT, bronchus clamps	185
delicate hemostatic forceps	589
DUROGRIP needle holders	628
intrathoracic artery forceps	596
SATINSKY, anastomosis clamps	181, 182
ATRAUMATA vascular clamps	142, 167, 177, 256, 257, 260, 261
SATINSKY mod. ALIMI, ATRAUMATA vascular clamps	260, 261
vascular scissors	545
SAUERBRUCH, lung spatula	401
retractors	401
rib shears	354
SAUERBRUCH-CORYLLOS, bone rongeurs	366
Saw blades, sternotomy	4
Saws, oscillating	4
reciprocating	4
sternum	1-4
SAYRE, raspatories	338

	Page
Scaffolding vascular prostheses	204, 205
Scalpel blades	266, 487, 488, 491
Scalpel blades, carbon steel	487, 488
disposable	487, 488, 491
microsurgical	491
stainless steel	487, 488, 491
Scalpel handles	266, 483-486, 489, 490
Scalpel handles, micro scalpel blades	489, 490
Scalpels	492, 493
Scalpels, disposable	480, 482
disposable, carbon steel	477-481
disposable, stainless steel	480, 481
micro	482
safety	477-479
sterile	477-482
Scapula retractors	402
SCHEDE, bone curettes	349
SCHMID, vascular spatula	218
vessel irrigating cannulae	209
SCHMIEDEN-TAYLOR, dura scissors	542
SCHNIDT, hemostatic forceps	598
SCHOENBORN, wound and vein retractors	440
SCHUHKNECHT, suction cannulae	652
SCHUMACHER, sternum shears	352
SCHWARTZ, clip applying forceps	115
temporary vessel clips	115
Scissors, arteriotomy	524
bandage	556, 557
bipolar dissecting	294-299, 302, 303
bulldog	520
cloth	556, 557
delicate	500, 520-523, 533, 535-541
dissecting, delicate	522, 534, 535
dissecting, micro	45
dura	542
DUROTIP	370, 500-507, 550
DUROTIP ligature	265
DUROTIP with wavecut	265, 508-511
endo vessel	248, 249
for wound edge	553
ligature	41, 93, 500, 508, 511
material	501, 552-557
micro	36-47, 93
nerve	535
nerve dissecting	523
NOIR	494-499
NOIR with wavecut	496-499
nurse's	556
offset	551
peritoneal	238, 239
Supercut	512-518
surgical	501, 508, 552-557
tendon	522
tenotomy	522, 534
tungsten carbide	500-511

	Page
Scissors, vascular	522, 524, 535, 539-551
vein	43
wire cutting	370, 371
SEBILEAU, elevators	223
SEDILLOT, raspatories	342
Self-retaining retractors	92, 418-420, 423-429
Self-retaining rectractors, vascular	421, 422
SELLORS, rib spreaders and contractors	382
SELMAN, tissue forceps	578
SEMB, bone holding forceps	367
bone rongeurs	365
raspatories	345
vascular clamps	184
SEMKEN, delicate dissecting forceps	567
delicate tissue forceps	574
Set organisation	32-35
Sets, SUSI procedure	232-235
SEWALL, elevators	339
Shafts, trocar	268, 269
Shears, rib	354, 355
sternum	352, 353
Shunt clamps, carotid	183
Shunt operations, instruments for	92-95
Silver Graft, vascular prostheses	186, 188, 189
SIMON, abdominal retractors	455
SIMS, DUROTIP dissecting scissors	507
SIMS-MAIER, sponge and dressing forceps	467
Single use, ball electrodes	321
electrode handle, monoplar	319
safety scalpels	477-479
scalpel blades	487, 488, 491
scalpels	480
sterile scalpels	480-482
surgical instruments	232-235
Skin closure, suture material	620, 621
Spare bulb, Xenon light source	278, 279
Spatula, abdominal	457
dissection	246
endo vessel	246
lung	398-401
vascular	218, 219
SPENCER-WELLS, hemostatic forceps	590
Sponge forceps	464-468, 470, 471
Spreaders, rib	382, 384-395
ST. BARTS, nerve and vessel hooks	224
Stainless steel, disposable scalpels	480, 481
scalpel blades	487, 488, 491
STAMM, bone cutting forceps	356
Stand for flat panel displays	274, 275, 283
STANDARD, DUROGRIP dissecting forceps	563
Steelex, electrode set	638, 639
sternum set	636, 637
Sterile container system	656-659
Sterile funnel, Acculan 3Ti	4
Sterile scalpels	477-482

	Page
Sterile supply	656-659
Sterilit oil sprays	660-663, 665, 668
Sternal puncture needles	352
Sternotomy saw blades	4
Sternum chisels	353
Sternum closure	636, 637
Sternum needle holder, DUROGRIP	635
Sternum retractors	383-395
Sternum saws, Acculan 3Ti	1-4
Sternum set, Steelex	636, 637
Sternum shears	352, 353
Sternum wire	636, 637
Sternum wire needle holder	376, 377
STEVENS, bipolar dissecting scissors	296, 297, 302
delicate dissecting scissors	522, 534
Supercut scissors	513
vascular and tendon scissors	522
STILLE, bone rongeurs	363
dissecting scissors	529
STILLE-BARRAYA, vascular and tumor forceps	578
STILLE-RUSKIN, bone rongeurs	363
Storage, instrument	32-35
STRANDELL-STILLE, wound and vein retractors	438
STRATTE, DUROGRIP needle holders	633
STREAMLINE, micro needle holders	77
Stripper, rib	338
vein	215, 216
Strippers, endarterectomy	212
STRUCK, rib spreader	384
STRULLY, vascular scissors	542, 543
Subclavian clamps, ATRAUMATA	136
SUBRAMANIAN (MODIF.), ATRAUMATA vascular clamps	160
Suction and irrigation tubes	247
Suction cannulae	331, 644-648, 650-653
Suction cannulae, micro	649
Suction handle	209
SUPER-righting needle holders	259
Supercut, delicate scissors	512
dissecting scissors	514-517
tenotomy scissors	513
vascular scissors	514-518
Surgical Loop retraction tape	66, 67
Surgical scissors	552-557
Surgical scissors, DUROTIP	501
DUROTIP with wavecut	508
SUSI, procedure sets	232-235
Suture forceps, DUROGRIP	264, 564
Suture hook	266
Suture material for sternum closure	636-639
Suture material for skin closure	620, 621
Suture tying forceps	58
Suture tying forceps, micro, jeweler patterns	59-61
Sutures	62-65
Sutures, bypass	64, 65
coronary arteries	64, 65
Sutures, CV Pass	62-65
heart valve replacement	62, 63
vascular anastomosis	64, 65
Swab forceps	240, 241
SWEDISH, dissectors	221
Switches, bipolar hand	294, 295, 305
hand	296-299
Systems, 3-Chip Full HD camera	272, 273
digital documentation	280-283
for minimal invasive vein harvesting	106-109
instrument organisation	32-35
MÜNSTER retraction	433-437
power	1-4
retraction	430-437
ring retraction	430-437
sterile container	656-659
vario retractors	396, 397

T

	Page
Tape, retraction	66, 67
Tendon scissors	522
Tenotomy scissors	522, 534
Tenotomy Supercut scissors	513
Tester, light guide cables	278, 279
Thoracic retractors	383-395
Thoracoscopy instruments	238-247, 268-270
Thorax drainage set, SUSI	235
THOREK, vascular scissors	544
THORPE, delicate dissecting forceps	565
THUMB, DIA DUST dissecting forceps	563
Tighteners, wire	369
Tissue forceps	17, 18, 240, 241, 573, 576-578
Tissue forceps, delicate	571-575
Tissue grasping forceps	242, 243, 252, 253, 468-471, 613-615, 617-619
Tissue grasping forceps, ATRAUMATA	242, 243, 611, 612, 616
Titanium ligature clips	98, 100, 102, 104
TITANIUM, forceps	10, 11, 16-18
micro forceps	10, 11
micro needle holders	12, 13
micro instruments	6-9
needle holders	12, 13, 15
vascular clamps	19-29
Toothing, ATRAUMATA	558
Tourniquet	212
Towel clamps	473-476
TRAVERS, self-retaining retractors	429
Trays	656-659
TRELAT, raspatories	337
Trocar shafts	268, 269
Trocars	268-270
Trocars, flexible	268, 269
rigid	270

	Page
Trolley, endoscopy	290, 291
Tubes, fixation forceps	474
high pressure	286, 287
suction and irrigation	247
Tubing clamps	472
TUFFIER, abdominal spatula	457
organ and tissue grasping forceps	613
rib spreaders	385, 386
Tumor forceps	578
Tungsten carbide, forceps	562-564
needle holders	622-635, 640-643
scissors	500-511
vascular scissors	550
Tunneler	109
Tunnelling instruments	213
TURNER, monopolar forceps	328
TUTTLE, lung grasping forceps	579
Twisters, wire, DUROGRIP	376, 377, 635
TÜBINGER MODELL, abdominal retractors	455
TÖNNIS, dissecting scissors	525
DUROGRIP, needle holders	640
grooved director	221
vascular spatula	218
TÖNNIS MODIF., DUROGRIP, needle holders	640
TÖNNIS-ADSON, dissecting scissors	497, 524
DUROTIP dissecting scissors	504, 509

U

ULRICH-AESCULAP, sponge- and dressing forceps	465
Ultra-light forceps, ATRAUMATA	559
Uni-Graft, vascular prostheses	187, 190-194
UNITRAC, holding arms	430-437
Units, electrosurgical	300, 301
HF	300, 301
Universal forceps, ATRAUMATA	244, 245

V

Valve retractors	413
VANNAS, micro scissors	42, 44
VARADY, mini vein strippers sets	216
phleb extractors	217
Vario retractor system	396, 397
VascuGraft PTFE, vascular prostheses	196, 198-201
VascuGraft SOFT, vascular prostheses	197, 202, 203
Vascular anastomosis, sutures	64, 65
Vascular clamps	128-182, 252-257, 260-261, 184
Vascular clamps, ATRAUMATA	128-179, 252-257, 260-261
cobra	143
TITANIUM	19-29
Vascular clips	112, 113, 115
Vascular clips, ATRAUMATA	111, 117
endo	111
Vascular dilators	210, 211
Vascular forceps	578
Vascular patches	206, 207
Vascular prostheses	186-207
Vascular prosthese, draw-in forceps	214
tunneler	213
Vascular scissors	518, 522, 524, 535, 539-551
Vascular scissors, DUROTIP	550
Supercut	514, 518
tungsten carbide	550
Vascular self-retaining retractors	421, 422
Vascular spatulas	218, 219
Vega system for minimal invasive vein harvesting	106-109
Vein dissectors	109
Vein harvesting, minimal invasive	106-109
Vein hooks	225
Vein retractors	438-442
Vein scissors	43
Vein strippers	215, 216
VERRES cannulae	286, 287
Vessel clips	112, 113, 115, 116
Vessel clips, ATRAUMATA	111
endo	111
Vessel hooks	224-227
Vessel irrigating cannulae	209
Vessel scissors, endo	248, 249
Vessel spatula, endo	246
VISE, micro suture tying forceps	60
VOLKMANN, bone curettes	348, 349
retractors	443, 444
VOLLMAR, abdominal retractors	458, 459

W

WAGENER, nerve and vessel hooks	224
WANGENSTEEN, DUROGRIP dissecting forceps	564
DUROGRIP needle holders	634
WATSON-CHEYNE, raspatories	340
WAUGH, delicate tissue forceps	575
monopolar forceps	328
WEBER, ATRAUMATA vascular clamps	161
WEBSTER, DUROGRIP needle holders	627
WEITLANER, self-retaining retractors	423-425, 428
WERTHEIM, ATRAUMATA vascular clamps	149, 165
DUROGRIP needle holders	633
WIKSTROEM, dissecting and ligature forceps	604
WILLIAMS, organ and tissue grasping forceps	619
WILLIGER, bone curettes	347
elevators	222
raspatories	337
WILSON, hemostatic forceps	598
Wire brush	309

	Page
Wire cutters	370-375
Wire cutting pliers	371, 372, 374, 375
Wire cutting pliers, front cutting action	375
lateral cutting action	374
Wire cutting scissors	370, 371
Wire cutting scissors, DUROTIP	370
Wire holding forceps, DUROGRIP	377
Wire holding pliers	378, 379
Wire loop electrodes	322, 323
Wire tighteners	369
Wire twisters, DUROGRIP	376, 377, 635
Wire twisting forceps	369, 371
Wire, cerclage	369
sternum	636, 637
WITT, sternal puncture needles	352
Wound retractors	438-442
WULLSTEIN, self-retaining retractors	424
WYLIE, ATRAUMATA vascular clamps	138, 147, 158

X

Xenon light sources	276, 277
accessories	278, 279

Y

YANKAUER, suction cannulae	647
YASARGIL, micro scissors	45

Z

ZAUFAL-JANSEN, bone rongeurs	361
ZENKER, dissecting and ligature forceps	608
retractors	403
ZWEIFEL, DUROGRIP needle holders	641

Page

Page

Alphabetischer Index
A - B

Seite

A

Abdominales Aortenaneurysma, BipoJet Indikation 294, 295
Abdominalring 433-437
Abnehmezangen, Bulldogklemmen 118
  Endo-Gefäßclip- 110
Acculan 3Ti, Akku 4
  Ladegerät 4
  Oszillierende Säge 4
  Steriltrichter 4
  Sternumsägen 1-4
  Stichsägen 4
  Stützfuss 4
  Verschlussdeckel 4
Adapter, Xenon Lichtquelle 278, 279
Adapterkabel, HF- 305
ADLERKREUTZ, Gefäß- und Tumorpinzetten 578
ADSON, DUROGRIP Pinzetten 562
  Elevatoren 339
  Feine anatomische Pinzetten 565
  Feine Arterienklemmen 585, 586
  Feine chirurgische Pinzetten 571-573
  Monopolare Pinzetten 328
  Nerv- und Gefäßhäkchen 226
  Saugkanülen 650
  TITANIUM Chirurgische Pinzette 17
  Wundspreizer 426
ADSON-BABY, Wundspreizer 426
ADSON-BROWN, Hautpinzetten 573
AdTec Instrumente 238-245, 248-263
AESCULAP, DUROGRIP Nadelhalter 641
  Korn- und Tupferzangen 465
Akku, Acculan 3Ti 4
ALEXANDER, Raspatorien 344
ALLENBERG, Carotis-Sperrer 422
  Durchzugsinstrumentarium für Gefäßprothesen 214
  Gefäßklemmen 143
  Iliaca-Sperrer 421
ALLIS, Atraumatische Organ- und Gewebefasszangen 612, 613
  Atraumatische Organfasszangen 242, 243
  Organ- und Gewebefasszangen 614, 615
ALLIS-ADAIR, Organ- und Gewebefasszangen 613
ALLIS-THOMS, Organ- und Gewebefasszangen 615
ALLISON, Lungenspatel 400
ALLPORT, Wundspreizer 420
ALM, Wundpreizer 419
Anastomosenklemmen 181, 182
Anatomische Pinzetten 17, 18, 569
Anatomische Pinzetten, Bajonettförmige- 570
  Feine- 565-568
ANGLE, Drahtschneidezangen 370
Anlegezangen, Bulldogklemmen 118
  Clip- 98-105, 115
  Endo-Gefäßclip- 110
Anschlusskabel, Bipolare- 314-316
  Monopolare- 317, 324, 332, 333
Aortenbogen, Gefäßprothesen 187, 194
Aortenhaken 412
Aortenklappenhaken 413
Aortenstanzen 208
Approximatoren, Mikro- 113
  Mini-Gefäßclips 112
  Nerv- 114
Arterienklemmen 584-598
Arterienklemmen, Feine- 580-589
Arteriotomie-Scheren 524
ATRAUMATA, Bulldogklemmen 121-126
  Cava Verschlussklemmen 174
  Endo-Gefäßclips 111
  Endo-Gefäßklemmen 254, 255
  Fasszangen 254, 255
  Gefäßclips 117
  Gefäßklemmen 128-179, 252-257, 260-261
  Gewebefasszangen 469, 610-612, 616
  Lungenfasszangen 244, 245
  Mini-Bulldogklemmen 120
  Monopolare Pinzetten 330
  Myokard Fasszangen 611
  Organfasszangen 242, 243, 469, 610-612, 616
  Pinzetten 16, 265, 560, 561
  Profundaklemmen 137
  Subclavius Gefäßklemmen 136
  TITANIUM Gefäßklemmen 19-27, 29
  Ultra-Light-Pinzetten 559
  Zahnungen 558
Atriumhaken 414-417
AUSTIN, Mikro-Knüpfpinzetten 61
AV-Shunts, Instrumentarium für die Anlage von- 92-95
Axel 180 Xenon Lichtquellen 276, 277

B

BABCOCK, Atraumatische Organ- und Gewebefasszangen 610, 611
  Organfasszangen 242, 243, 252, 253
BABY-ADSON, Präparier- und Ligaturklemmen 600
BABY-ALLIS, Organ- und Gewebefasszangenn 613
BABY-CRILE, Feine Arterienklemmen 582
BABY-CRILE-WOOD, DUROGRIP Nadelhalter 628
BABY-METZENBAUM, DUROTIP Präparierscheren 504, 509
  Präparierscheren 496, 531
  Supercut Präparierscheren 517
BABY-MIXTER, Präparier- und Ligaturklemmen 599
BABY-MOSQUITO (HARTMANN), Feine Arterienklemmen 580
BABY-OVERHOLT, Präparier- und Ligaturklemmen 599
BABY-SATINSKY, Anastomosenklemmen 181
BACKHAUS, Tuchklemmen 473
BACKHAUS-KOCHER, Tuchklemmen 473
BAILEY, Rippenkontraktoren 382
Bajonettförmige Pinzetten, Anatomische- 570
Band, Retraktions- 66, 67

	Seite
BARRAQUER, Mikro-Nadelhalter	84
Wundspreizer	420
BARRÉ, Bipolare Pinzette	307
Gefäßscheren	543
Präparierklemmen	606
Skalpellgriff	484
BARRON, Saugkanülen	652
Skalpellgriff	483
BARTH, Scharfe Löffel	347
Bauchdeckenhaken	436, 450-456, 458, 459
Bauchdeckenhalter	461
Bauchdeckenhalter, Befestigungsgestell für-	460
Fixiervorrichtung für-	461
Bauchspatel	457
BAUMGARTNER, DUROGRIP Drahtspannzangen	377, 635
DUROGRIP Nadelhalter	627
Befestigungsgestell, Bauchdeckenhalter-	460
BENGOLEA, Feine Arterienklemmen	588
BERNHARD, Tuchklemmen	473
BERRY, DUROGRIP Drahtspannzangen	376, 635
BETHUNE, Rippenscheren	354
BEYER, Hohlmeißelzangen	361
BiBox, Nelson	305
BIEMER, Anlegepinzetten für Gefäßclips	112, 113
Gefäßclips	112, 113
Mikro-Approximatoren	113
Nerv-Approximator	114
BIEMER-MÜLLER, Gefäßclips	113
Mikro-Approximatoren	113
Bildschirme, Flach-	283
Flach-, Full HD-	274, 275
BipoJet, Klemmen	294-299, 304
Pinzetten	294-299, 306-308
Präparierscheren	294-299, 302, 303
BipoJet Indikationen, Abdominales Aortenaneurysma	294, 295
Carotis Eingriffe	296, 297
Eingriffe in der Leiste	298, 299
Bipolare Anschlusskabel	314-316
Bipolare Handschalter	294-299, 305
Bipolare Klemmen	294-299, 304
Bipolare Koagulationspinzetten	309-313
Bipolare Pinzetten	294-299, 306-313
Bipolare Präparierscheren	294-299, 302, 303
BIRKETT, Feine Arterienklemmen	588
Blätter, Sternumsäge-	4
BLAKE, Embolusfasszange	209
BÖHLER, Hohlmeißelzangen	361
Knochensplitterzangen	358
BONNER MODELL, Mikro-Knüpfpinzetten	60
BOROWSKI, Aortenklappenhaken	413
BORST, Fixierklemmen	183
BOYS-ALLIS, Organ- und Gewebefasszangen	613
BRAUN-STADLER, Sternum-Scheren	353
BRODIE, Hohlsonden	228
BROM, Venenhäkchen	225

	Seite
Bronchusklemmen	184, 185
BROPHY, Feine anatomische Pinzetten	568
BROWN, Hautpinztten	573
BRUNNER, Bauchdeckenhaken	454
Rippenscheren	355
BRUNS, Scharfe Löffel	349, 351
Bulldogklemmen	118, 119, 214
Bulldogklemmen, Atraumatische-	120-126
Fixier-	127
Mini-	120
Bulldogscheren	520
Bypass, Nahtmaterial	64, 65
Venenentnahme	106-109

C

CAIRNS, Feine Arterienklemmen	583
CAIRNS-DOTT, Feine anatomische Pinzetten	567
Carbon steel, Einmalskalpelle	477-481
Skalpellklingen	487, 488
Carotis Eingriffe, BipoJet Indikation	296, 297
Carotis Shunt Klemmen	183
Carotis-Sperrer	422
CASPAR, Explorationshäkchen	227
Raspatorien	341
Skalpellgriff für Mikro-Klingen	489
CASTROVIEJO, DUROGRIP Mikro-Nadelhalter	81, 82
Mikro-Nadelhalter	87
Cava Verschlussklemmen, Atraumatische-	174
Cerclagedraht	369
3-Chip Full HD Kamerasystem	272, 273
Chirurgische Pinzetten	17, 18, 576-578
Chirurgische Pinzetten, Feine-	571-575
Monopolare-	330
Chirurgische Scheren	552-557
Chirurgische Scheren, DUROTIP	501
DUROTIP mit Wellenschliff	508
Clipabnehmezangen	110
Clipanlegepinzetten	112, 113
Clipanlegezangen	98-105, 110, 115
Clips, Atraumatische-	111
Atraumatische Gefäß-	117
Endo-Gefäß-	111
Gefäß-	112, 113, 115, 116
Titan Ligatur-	98, 100, 102, 104
CO_2 Filter	286, 287
Cobra Gefäßklemmen	143
COLLER, Feine Arterienklemmen	584
COLLIN, Atraumatische Organ- und Gewebefasszangen	469, 616
Organ- und Gewebefasszangen	470, 617, 618
Tupfer- und Schwammzangen	470
Container	325, 656-659
CONVERSE, DUROGRIP Nadelhalter	626
COOLEY, Atraumatische Bulldogklemmen	126

Alphabetischer Index
C - D

Seite

COOLEY, Atraumatische Cava Verschlussklemmen 174
Atraumatische Gefäßklemmen 130, 131, 166-179
Atraumatische Pinzetten 561
Atriumhaken 414-416
Gefäßscheren 544, 550
Saugkanülen 644, 645
Sternumsperrer 392
COOLEY MODIF. STRUCK, Atriumhaken 417
COOLEY-BECK, Atraumatische Gefäßklemmen 168
COOLEY-SATINSKY, Atraumatische Gefäßklemmen 167, 177
COOPER, Chirurgische Scheren 552-555
CORYLLOS, Lungenspatel 401
Wundhaken 401, 437
COTTLE, Bulldog-Scheren 520
Raspatorien 341
Wund- und Venenhaken 439
COTTLE-KNAPP, Präparierscheren 521
COTTLE-MASING, Präparierscheren 521
CRAFOORD, Atraumatische Endo-Gefäßklemmen 254, 255
Feine Arterienklemmen 589
Gefäßklemmen 180
CRAFOORD-SELLORS, Gefäßklemmen 180
CRILE, Feine Arterienklemmen 582, 584
Nerv- und Gefäßhäkchen 225
CRILE-WOOD, DUROGRIP Nadelhalter 628
CUSHING, Chirurgische Pinzetten 577
DUROGRIP Pinzetten 563
Feine anatomische Pinzetten 568
Nerv- und Gefäßhäkchen 225, 227
Wund- und Venenhaken 440, 442
CUSHING-KOCHER, Wund- und Venenhaken 439
CV Pass, Nahtmaterial 62-65

D

DALE, Atraumatische Gefäßklemmen 137
DANDY, Feine Arterienklemmen 581
DAVIDSON, Schulterblatt-Haken 402
Wundhaken 402
DAVIS, Gefäßspatel 218
DE BAKEY, Arteriotomiescheren 524
Atraumatische Bulldogklemmen 121, 122
Atraumatische Endo-Gefäßclips 111
Atraumatische Fasszange 254, 255
Atraumatische Gefäßklemmen 128-143, 148-159, 160, 165, 252-257, 260, 261, 262, 263
Atraumatische Pinzetten 265, 560, 561
DUROGRIP Nadelhalter 631, 632
DUROTIP Gefäßscheren 550
Gefäßdilatatoren 210
Gefäßklemmen 144-147
Gefäßscheren 548
Offset-Schere 551
Rippensperrer 389, 390

Seite

DE BAKEY, Saugkanülen 646, 647
TITANIUM Atraumatische Gefäßklemmen 19-27, 29
TITANIUM Pinzetten 16
DE BAKEY (LAMBERT MODIF.), Atraumatische Gefäßklemmen 162
DE BAKEY (MORRIS MODIF.), Atraumatische Gefäßklemme 152
DE BAKEY (SEMB MODIF.), Atraumatische Gefäßklemmen 154
DE BAKEY mod. ALIMI, Atraumatische Gefäßklemmen 262, 263
DE BAKEY mod. EDOGA, Atraumatische Gefäßklemmen 260, 261
DE BAKEY-BAINBRIDGE, Atraumatische Gefäßklemmen 132
DE BAKEY-BECK, Atraumatische Gefäßklemmen 140
DE BAKEY-HARKEN, Atraumatische Gefäßklemmen 140
DE BAKEY-HESS, Bulldogklemmen 119
DE BAKEY-MC QUIGG-MIXTER, Atraumatische Gefäßklemmen 135
DE BAKEY-MIXTER, Atraumatische Gefäßklemmen 135
DE BAKEY-PEAN, Atraumatische Gefäßklemmen 133
DE BAKEY-RUMEL, Atraumatische Gefäßklemmen 135
DE BAKEY-SATINSKY, Atraumatische Gefäßklemmen 142
DEAVER, Wundhaken 405-410
DEMEL, Drahtspannzangen 369
DERF, DUROGRIP Nadelhalter 626
DERRA, Atraumatische Gefäßklemmen 131
DERRA-COOLEY, Atraumatische Gefäßklemmen 169
Desinfektionshinweise 664-668
DESMARRES, Wund- und Venenhaken 439
DIA DUST, Mikro-Nadelhalter 12, 13, 68-76, 95
Mikro-Pinzetten 10, 11, 48-55, 94, 95
Nadelhalter 12, 13, 15, 77-79
Pinzetten 10, 11, 563
Diamant-Messer 492, 493
DICK, Atraumatische Gefäßklemmen 149
DIEFFENBACH, Bulldogklemmen 118
DIETHRICH, Atraumatische Gefäßklemmen 159
Bulldogklemmen 119
Gefäßscheren 548
DIETHRICH-HEGEMANN, Gefäßscheren 548
DIETRICH-POTTS, Gefäßscheren 546-548
Digitales Dokumentationssystem 280-283
Dilatatoren, Gefäß- 210, 211
Dissektionsspatel 246
Dissektoren 218-221, 339, 340
Dissektoren, Intima- 222
Phlebo- 217
Venen- 109
DIXON-LOVELACE, Feine Arterienklemmen 585
Dokumentationssysteme, Digitale- 280-283
Dorne, Trokar- 270
DOYEN, Raspatorien 346
Draht, Cerclage- 369
Sternum- 636, 637
Drahtbiegezangen 371
Drahtbürstchen 309
Drahtfasszangen 378, 379
Drahtfasszangen, DUROGRIP 377

	Seite
Drahtscheren	370, 371
Drahtscheren, DUROTIP	370
Drahtschlingenelektroden	322, 323
Drahtschneidezangen	370-375
Drahtspannzangen	369
Drahtspannzangen, DUROGRIP	376, 377, 635
Drainage-Set, SUSI Thorax-	235
Druckschlauch	286, 287
DUNHILL, Feine Arterienklemmen	582, 587
Durascheren	542
Durchzugsinstrumente für Gefäßprothesen	213, 214
DUROGRIP, Drahtfasszangen	377
Drahtspannzangen	376, 377, 635
Ligaturzangen	635
Mikro-Nadelhalter	80-83
Nadelhalter	258, 264, 622-629, 631-634, 642
Nadelhalter mit Schere	630
Nahtpinzetten	264, 564
Pinzetten	562-564
Sternum-Nadelhalter	635
DUROTIP, Chirurgische Scheren	501
Chirurgische Scheren mit Wellenschliff	508
Drahtscheren	370
Fadenscheren	500
Fadenscheren mit Wellenschliff	265, 508
Feine Scheren	500
Gefäßscheren	550
Ligaturscheren mit Wellenschliff	265, 511
Materialscheren	501
Präparierscheren	502-507
Präparierscheren mit Wellenschliff	508-510
Scheren mit Wellenschliff	265
DUVAL, Organ- und Gewebefasszangen	619
DUVAL-COLLIN, Organ- und Gewebefasszangen	618

E

ECHLIN, Hohlmeißelzangen	362
Eddy Digitales Dokumentationssystem	280-283
Eingriffe in der Leiste, BipoJet Indikation	298, 299
Einmal-Elektrodenhandgriffe, Monoplare-	319
Einmal-Kugelelektroden	321
Einmal-Instrumente, SUSI	232-235
Einmal-Skalpelle	480, 482
Einmal-Skalpelle, Carbon steel	477-481
Stainless steel	480, 481
Einmal-Skalpellklingen, Carbon steel	487, 488
Stainless steel	487, 488, 491
Elektrochirurgie-Gerät, Nelson deluxe	300, 301
Elektroden Set, Steelex	638, 639
Elektroden, Drahtschlingen-	322, 323
Kugel-	321, 322, 325
Lanzetten-	320
Messer-	320, 322
Elektroden, Monopolare-	320-323, 325
Nadel-	320-323, 325
Platten-	321
Schlingen-	320, 325
Elektrodenhandgriffe, Einmal-	319
Monopolare-	317-319, 324
Elektrostimulation, temporär	638, 639
Elevatoren	218, 219, 222, 223, 339, 340
Elevatoren, Endo-Pleura-	247
Embolusfasszange	209
Endarterektomiestripper	212
Endo-Gefäßclip-Abnehmezangen	110
Endo-Gefäßclip-Anlegezangen	110
Endo-Gefäßclips, Atraumatische-	111
Endo-Gefäßklemmen, Atraumatische-	254, 255
Endo-Gefäßschere	248, 249
Endo-Gefäßspatel	246
Endo-Lungenfasszange	242, 243
Endo-Pleuraelevatoren	247
Endo-Unterbindungsnadel	267
Endoskope, Full HD-	282, 283
Endoskopiewagen	290, 291
Epikard-Retraktoren	419
Ersatzkabel, Kamera-	272, 273
Ersatzlampe, Xenon Lichtquelle	278, 279
Explorationshäkchen	227
Extraktoren, Phleb-	217

F

Fadenklemmen	116
Fadenscheren	511
Fadenscheren, DUROTIP	500
DUROTIP mit Wellenschliff	265, 508
Mikro-	41, 93
Fächerretraktor	267
FARABEUF, Raspatorien	342
FARABEUF-COLLIN, Raspatorien	342
Fasspinzetten	18
Fasszangen	238-241, 244, 245, 250, 251
Atraumatische-	254, 255
Atraumatische Gewebe-	610-612, 616
Atraumatische Lungen-	244, 245
Atraumatische Organ-	242, 243, 469, 610-612, 616
Draht-	377
DUROGRIP	377
Embolus-	209
Endo-Lungen-	242, 243
Gewebe-	468, 470, 471, 613-615, 617-619
Myokard-	611
Organ-	468, 470, 471, 613-615, 617-619
FAVOLORO, Gefäßscheren	551
Fassangen, Atraumatische Gewebe-	469
Feine anatomische Pinzetten	568

Alphabetischer Index
F - G

Seite

Feine Arterienklemmen 580-589
Feine chirurgische Pinzetten 571-575
Feine Präparierscheren 522, 534, 535
Feine Scheren 533, 535-541
Feine Scheren, DUROTIP 500
  Supercut 512
FERGUSSON, Knochenhaltezangen 367
  Saugkanülen 651, 653
FERRIS-SMITH, DUROGRIP Pinzetten 564
Fettspreizer, Koronar- 418
Fiberglas-Lichtkabel 109
FICKLING, Arterienklemmen 595
Filter, CO_2 286, 287
FINOCHIETTO, DUROGRIP Nadelhalter 634
  Präparier- und Ligaturklemmen 605
  Rippensperrer 385-387
  Thoraxsperrer 383, 384
FINOCHIETTO-BURFORD, Rippensperrer 388
FINSTERER, Saugkanülen 647
Fistelsonden 228
Fixier-Bulldogklemmen 127
Fixierklemmen 183
Fixierklemmen, Schlauch- 474
Flachbildmonitor 282
Flachbildmonitor, Zubehör 282, 283
Flachbildschirme 283
Flachbildschirme, Full HD- 274, 275
Flexible Trokare 268, 269
Flow40 Insufflator 284, 285
Fluid3 Spülpumpe 288, 289
FOERSTER-BALLENGER, Tupfer- und Schwammzangen 468
FOMON, Präparierscheren 521
  Supercut Scheren 513
FORMBY, Saugkanülen 652
FRASER-KELLY (CRILE), Feine Arterienklemmen 586
FRAZIER, Saugkanülen 651
FREER, Dissektoren 219, 339, 340
  Elevatoren 339, 340
  Raspatorien 339, 340
FREER-YASARGIL, Raspatorien 340
FRENCH EYE, DUROGRIP Nadelhalter 626
FRITSCH, Bauchdeckenhaken 456
FRYKHOLM, Hohlmeißelzangen 362
FUCHSIG, Feine Arterienklemmen 585
Führungsinstrument, Knoten- 266
Full HD Endoskope 282, 283
Full HD Flachbildschirme 274, 275

G

GARRETT, Gefäßdilatatoren 211
Gefäß-Patches 206, 207
Gefäß-Spülkanülen 209
Gefäß-Wundspreizer 421, 422

Seite

Gefäßanastomosen, Nahtmaterial 64, 65
Gefäßclips 112, 113, 115, 116
Gefäßclips, Atraumatische- 111, 117
  Endo- 111
Gefäßdilatatoren 210, 211
Gefäßhäkchen 224-227
Gefäßklemmen 180-182, 184
Gefäßklemmen, Atraumatische- 128-179, 252-257, 260-261
  Atraumatische Endo- 254, 255
  Cobra- 143
  Subclavius- 136
  TITANIUM- 19-27, 29
Gefäßpinzetten 578
Gefäßprothesen 186-207
Gefäßprothesen, Durchzugsinstrumente 213, 214
Gefäßscheren 518, 522, 524, 535, 539-551
Gefäßscheren, DUROTIP- 550
  Endo- 248, 249
  Hartmetall- 550
  Supercut- 514, 518
Gefäßspatel 218, 219
Gefäßspatel, Endo- 246
GEMINI, Präparier- und Ligaturklemmen 603
Geräte, Elektrochirurgie- 300, 301
  HF 300, 301
GERALD, Feine anatomische Pinzetten 567
  Feine chirurgische Pinzetten 575
  Mikro-Pinzetten 52, 53
  TITANIUM Anatomische Pinzette 18
  TITANIUM Chirurgische Pinzette 18
Gewebefasszangen 468-471, 613-615, 617-619
Gewebefasszangen, Atraumatische- 610-612, 616
GIERTZ-STILLE, Rippenscheren 355
GIL VERNET, Wund- und Venenhaken 441
GILLIES, DUROGRIP Nadelhalter mit Schere 630
  Feine anatomische Pinzetten 567
  Feine chirurgische Pinzetten 575
  Monopolare Pinzetten 328
GLASSER, DIA DUST Mikro-Nadelhalter 76
GLOVER, Atraumatische Bulldogklemmen 121, 122, 125
  Atraumatische Gefäßklemmen 139
  TITANIUM Atraumatische Gefäßklemmen 22
GLUCK, Rippenscheren 354
GNAUERT, Oberbauchrahmen 430, 434-437
GOLDMAN-FOX, DUROTIP Feine Scheren 500
  Supercut Scheren 513
Golfball Instrumente 6-13, 55, 77, 82, 93
GOSLEE, Drahtfasszangen 378
GRAEFE, Feine chirurgische Pinzetten 573
  Nerv- und Gefäßhäkchen 224
  Präparierscheren 520
GREGORY, Atraumatische Bulldogklemmen 123, 124
  Atraumatische Profundaklemmen 137
GREGORY MODIF., Atraumatische Bulldogklemmen 124
GREY-TURNER, Feine Arterienklemmen 587

	Seite
Griffe, Saug-	209
Skalpell-	266, 483-486, 489, 490
Skalpell-, Mikro-Klingen	489, 490
Spül-	209
GROSS, Korn- und Tupferzangen	464
GRUENWALD, Anatomische Pinzetten, bajonettförmig	570
DUROGRIP Pinzetten	563

H

HABERER, Bauchspatel	457
Häkchen, Explorations-	227
Gefäß-	224-227
Naht-	266
Nerv-	224-227
Präparations-	442
Venen-	225
HAIGHT, Rippensperrer	386
Haken, Aorten-	412
Aortenklappen-	413
Atrium-	414-417
Bauchdecken-	436, 450-456, 458, 459
Klappen-	413
Leber-	437
Lid-	439-442
Scapula-	402
Schulterblatt-	402
Venen-	438-442
HALLE, Dissektoren	219
Elevatoren	339
HALSEY, DUROGRIP Nadelhalter	627
HALSTED, Feine Arterienklemmen	585
HALSTED-MOSQUITO, Feine Arterienklemmen	580, 586
Haltearm, UNITRAC	430-437
Handgriffe, Elektroden-	317-319, 324
Monopolare-	317-319, 324
Vario Wundhaken-System	396
Handschalter, Bipolare-	294-299, 305
HARRINGTON, Lungenspatel	398
Wundhaken	398
HARRINGTON- PEMBERTON, Lungenspatel	399
Wundhaken	399
Hartmetall-Gefäßscheren	550
Hartmetall-Nadelhalter	622-635, 640-643
Hartmetall-Pinzetten	562-564
Hartmetall-Scheren	500-511
HARVEY, Drahtscheren	371
Drahtschneidezangen	372
HASSON, Wundhaken	404
Hautpinzetten	573
Hautverschluss, Nahtmaterial für-	620, 621
HEANEY, Atraumatische Gefäßklemmen	164
DUROGRIP Nadelhalter	633
Hechtmaulzangen	240, 241
HEGAR, DUROGRIP Nadelhalter	629
HEGAR-MAYO, DUROGRIP Nadelhalter	629
HEGAR-MAYO-SEELEY, DUROGRIP Nadelhalter	628
HEGAR-OLSEN, DUROGRIP Nadelhalter mit Schere	630
HEGAR-OLSEN MODIF. LANGE , DUROGRIP Nadelhalter mit Schere	630
HEISS, Feine Arterienklemmen	587
Präparier- und Ligaturklemmen	604
HELLBERG-KUPKA, DUROGRIP Nadelhalter	624
HENDERSON, Wundspreizer	427
HENDREN, Gefäßklemmen	182
HENLY, Atraumatische Subclavius Gefäßklemmen	136
Wundspreizer	426
Heparin-Nadeln	209
HERTZLER, Rippensperrer	385
Herzklappenersatz, Nahtmaterial	62, 63
Herzklappenpinzetten	579
Herzschrittmacher-Set, SUSI	234
HEYWOOD-SMITH, Organ- und Gewebefasszangen	471
Organ-und Tupferzangen	240, 241
Tupfer- und Schwammzangen	470, 471
HEYWOOD-SMITH MODIF., Tupfer-und Schwammzangen	470
HF-Adapterkabel	305
HF-Geräte	300, 301
HÖSEL, Bauchdeckenhaken	453
DUROGRIP Nadelhalter	642
HOHENFELLNER, Gefäßscheren	544
Hohlmeißelzangen	361-366
Hohlsonden	221, 228
HOPT, Atraumatische Gefäßklemmen	134
HUDSON, Feine anatomische Pinzetten	565
Feine Chirurgische Pinzetten	573

I

I.M.A. Retraktoren	419
Iliaca-Sperrer	421
Injektionskanülen	246
Instrumentarium für die Anlage von AV-Shunts	92-95
Instrumentarium, SUSI-	232-235
Instrumente, AdTec-	238-245, 248-263
Knotenführungs-	266
Laparoskopie-	248-265, 268-270
Mikro-	6-9
Retraktions-	267
Thorakoskopie-	238-247, 268-270
TITANIUM-	6-9, 14
Tunnelierungs-	213
Instrumenten Organisationssystem	32-35
Instrumentenlagerung	32-35
Instrumentenpflege	660-668
Insufflator, Flow40	284, 285
Zubehör	286, 287
Intima Dissektoren	222

	Seite
Irisscheren	533
IRWIN, Wundspreizer	429

J

	Seite
JACOBSON, Feine Arterienklemmen	581, 586
Mikro-Nadelhalter	88
Mikro-Scheren	45
Scharfe Löffel	347
JAMESON, Präparierscheren	523
Supercut Präparierscheren	514
JAMESON-WERBER, Präparierscheren	523
JANSEN, Scharfe Löffel	347
Wundspreizer	420
JAVID, Carotis Shunt Klemmen	183
JEFFERSON, Feine chirurgische Pinzetten	572
Wundspreizer	427
JENKNER, Tunnelierungs- und Durchzugsinstrumentarium für Gefäßprothesen	213
JOHNS-HOPKINS, Anlege- und Abnehmezangen	118
Bulldogklemmen	118
JOSEPH, Feine Scheren	533, 541
Raspatorien	337
Supercut Präparierscheren	514
JUDD-ALLIS, Organ- und Gewebefasszangen	615

K

	Seite
Kabel, Bipolare-	314-316
Ersatz-, Kamera-	272, 273
Fiberglas-Licht-	109
HF-Adapter-	305
Lichtleit-	278, 279
Monopolare-	317, 324, 332, 333
Kaltlicht-Wundhaken	396, 397
Kameraersatzkabel	272, 273
Kamerakopf	272, 273
Kamerasysteme, 3-Chip Full HD-	272, 273
KANTROWITZ, Präparier- und Ligaturklemmen	606
Kanülen, Injektions-	246
Koagulations-Saug-	331
Mikro-	649
Saug-	644-653
Spül, Gefäß-	209
Sternumpunktions-	352
VERRES-	286, 287
KAZANJIAN, Knochensplitterzangen	356
KELLY, Bauchdeckenhaken	452
Feine Arterienklemmen	581
Feine Scheren	541
Wundhaken	437
KEY, Raspatorien	344
KIEFER, Atraumatische Lungenfasszangen	244, 245
KILLIAN, Raspatorien	340
KILNER, DUROGRIP Nadelhalter	627
Präparierscheren	520, 523
Kinder-Sternumsperrer	383-385
Kinderherzchirurgie, TITANIUM Atraumatische-Gefäßklemmen	29
Kits, SUSI Behandlungs-	232-235
KLAPP, Wund-und Venenhaken	438
Klappenhaken	413
Kleiderscheren	556, 557
KLEINE, Atraumatische Myokard-Fasszangen	611
Klemmen, Anastomosen-	181, 182
Arterien-	584-598
Arterien-, Feine-	580-589
Atraumatische Bulldog-	121-126
Atraumatische Cava-Verschluss-	174
Atraumatische Endo-Gefäß-	254, 255
Atraumatische Gefäß-	128-179, 252-257, 260-261
Atraumatische Mini-Bulldog-	120
Atraumatische Profunda-	137
Atraumatische Subclavius-	136
BipoJet-	294-299, 304
Bipolare-	294-299, 304
Bronchus-	184, 185
Bulldog-	118, 119, 214
Carotis Shunt-	183
Faden-	116
Fixier-	183
Fixier-Bulldog-	127
Gefäß-	19-27, 29, 180-182, 184
Ligatur-	599-609
Präparier-	250, 251, 599-609
Schlauch-	472
Schlauch-Fixier-	474
TITANIUM-	19-29
Tuch-	473-476
Klingen, Einmalskalpell-	487, 488, 491
Mikrochirurgische-	491
Skalpell-	266, 487, 488, 491
KLINKENBERG-LOTH, Gefäßscheren	545
Knochenhaltezangen	367
Knochensplitterzangen	356-360
Knopfsonden	229
Knotenführungsinstrument	266
Knüpfpinzetten, Mikro-	58
Mikro-, Uhrmacher-Modelle	59-61
Koagulationskanülen	331
Koagulationspinzetten, bipolar	309-313
KOCHER, Arterienklemmen	593
Wund- und Venenhaken	439
Wundhaken	443, 445, 448
KOCHER-LANGENBECK, Wundhaken	447
KOCHER-OCHSNER, Arterienklemmen	594
KÖNIG, Elevatoren	222
Raspatorien	336

	Seite
KÖNIG, Wund- und Venenhaken	439
Kontraktoren, Rippen-	382
Kornzangen	464-467
Koronar Fettspreizer	418
Koronararterien, Nahtmaterial für-	64, 65
KRÄMER, Raspatorien	343
KRAYENBÜHL, Nerv- und Gefäßhäkchen	226
Kugelelektroden	321, 322, 325
Kugelelektroden, Einmal-	321

L

Ladegerät, Acculan 3Ti	4
Lagerung, Instrumenten-	32-35
LAHEY, Präparier- und Ligaturklemmen	609
LAHEY (SWEET), Präparier- und Ligaturklemmen	609
LAMBERT-KAY, Atraumatische Gefäßklemmen	162
TITANIUM Atraumatische Gefäßklemmen	23
LAMBOTTE, Raspatorien	344
LANDOLT, Koagulations-Saugkanülen	331
Präparierscheren	521
Raspatorien	341
Skalpellgriff für Mikro-Klingen	490
LANGENBECK, Knochenhaltezangen	367
Raspatorien	342, 343
Wundhaken	446-448
Lanzettenelektroden	320
Laparoskopie Instrumente	248-265, 268-270
LAWRENCE, Präparier- und Ligaturklemmen	607
LAZAR, Mikro-Knüpfpinzetten	61
Leberhaken	437
LEBSCHE, Sternum-Meißel	353
LEES, Atraumatische Gefäßklemmen	153
LEITZ, Atraumatische Gefäßklemmen	175
LEKSELL, Hohlmeißelzangen	362
LEKSELL-STILLE, Hohlmeißelzangen	363
LELAND-JONES, Atraumatische Gefäßklemmen	148
LEMMON, Intima Dissektoren	222
LEMOLE-STRONG, Atraumatische Gefäßklemmen	155
LEMPERT, Raspatorien	338
Saugkanülen	652
Scharfe Löffel	350
LERICHE, Feine Arterienklemmen	583
Wundhaken	411
LEXER, DUROTIP Präparierscheren	503, 508
Präparierscheren	498, 529
LICHTENBERG, DUROGRIP Nadelhalter	642
Lichtleitkabel	109, 278, 279
Lichtleitkabeltester	278, 279
Lichtquellen, Xenon-	276, 277
Xenon, Zubehör-	278, 279
Lidhaken	439-442
Ligaturclips, Titan-	98, 100, 102, 104
Ligaturklemmen	599-609
Ligaturplättchen	369
Ligaturscheren, DUROTIP mit Wellenschliff	265, 511
Ligaturzangen, DUROGRIP	635
LINDER, Endo-Lungenfasszangen	242, 243
LISTER, Verband- und Kleiderscheren	556, 557
LISTON, Knochensplitterzangen	357, 359
LISTON-KEY-HORSLEY (TUDOR EDWARDS), Knochensplitterzangen	360
LISTON-STILLE, Knochensplitterzangen	360
LITTLER, Präparierscheren	520
LOCKHART-MUMMERY, Fistelsonden	228
LOCKLIN, Feine Scheren	540
LOCKWOOD, Organ- und Gewebefasszangen	618
Löffel, Scharfe-	347-351
LORNA, Tuchklemmen	475
LOUTE, Drahtspanner	369
LOWER, Präparier- und Ligaturklemmen	609
LUER, Hohlmeißelzangen	361-366
LUER-STILLE, Hohlmeißelzangen	364, 365
Lungenfasspinzetten	579
Lungenfasszangen, Endo-	242, 243
Lungenspatel	398-401

M

MAC DONALD, Raspatorien	340
MAIER, Korn- und Tupferzangen	466
Mammariasperrer	394, 395
Mandrins	212
Manipler	620, 621
MARBERGER, Wund- und Venenhaken	441
MARBURG, Drahtfasszangen	378
MARQUARDT, Hohlmeißelzangen	361
MARTIN, Bauchdeckenhaken	455
MARTINI, Scharfe Löffel	347
MARYLAND, Fass- und Präparierzangen	238, 239, 250, 251
MASING, DUROGRIP Nadelhalter	626
Wund- und Venenhaken	439
MASSON, DUROGRIP Nadelhalter	634
MASSOUD, Fass- und Präparierzangen	244, 245
Materialscheren	552-557
Materialscheren, DUROTIP	501
MATHIEU, DUROGRIP Nadelhalter	643
MATSON, Raspatorien	338
MAYFIELD, Hohlmeißelzangen	361
MAYO, DUROTIP Präparierscheren	502, 508
Präparierscheren	498, 526, 527, 530
Supercut Präparierscheren	515, 516
MAYO-HARRINGTON, Präparierscheren	528
MAYO-LEXER, DUROTIP Präparierscheren	503, 508
Präparierscheren	498, 529
MAYO-STILLE, Präparierscheren	526, 527
MC INDOE, Feine anatomische Pinzetten	567
Feine chirurgische Pinzetten	575

	Seite
MC INDOE, Knochensplitterzangen	358
Monopolare Pinzetten	328
MC KENTY, Raspatorien	336
MC KISSOCK, Raspatorien	343
MEHDORN, Anlegepinzetten für Gefäßclips	112
Gefäßclips	112
Meißel, Sternum-	353
Mercedes Sperrer	393
Messer, Diamant-	492, 493
Teller-	491
Messerelektroden	320, 322
METZENBAUM, Bipolare Präparierscheren	302, 303
DUROTIP Präparierscheren	505, 506, 509, 510
Feine Präparierscheren	534
Präparierscheren	238, 248, 249, 497-499, 531
Schere	239
Supercut Präparierscheren	517
MICRO-ADSON, Feine anatomische Pinzetten	565
Feine chirurgische Pinzetten	571
Präparier- und Ligaturklemmen	599
TITANIUM Anatomische Pinzette	17
TITANIUM Chirurgische Pinzette	17
MICRO-ADSON-BIEMER, Feine chirurgische Pinzetten	571
MICRO-HALSTED, Feine Arterienklemmen	580
MIDDELDORPF, Wundhaken	449
Mikro-Approximatoren	113
Mikro-Fadenscheren	41, 93
Mikro-Instrumente, TITANIUM	6-9
Mikro-Knüpfpinzetten	58
Mikro-Knüpfpinzetten, Uhrmacher-Modelle	59-61
Mikro-Nadelhalter	84-91
Mikro-Nadelhalter, DIA DUST	68-77, 95
DUROGRIP	80-83
glattes Maul	84-91
Hartmetall	80-83
STREAMLINE, mit verdrehtem Schluss	77
TITANIUM	12, 13
Mikro-Pinzetten	48-61, 94, 95
Mikro-Pinzetten, DIA DUST	48-55, 94, 95
TITANIUM	10, 11
Mikro-Präparierscheren	45
Mikro-Saugkanülen	649
Mikro-Scheren	36-47, 93
Mikro-Skalpelle, Einmal-	482
Mikro-Venenscheren	43
Mikrochirurgische Klingen	491
MIKULICZ, Arterienklemmen	598
Bauchdeckenhaken	450, 451
MILLESI, Mikro-Scheren	44
MILLS, Gefäßscheren	549
Mini-Bulldogklemmen, Atraumatische-	120
Mini-Gefäßclips	112, 113
MINI-METZENBAUM, Präparierschere	248, 249
MIXTER, Präparier- und Ligaturklemmen	607, 609
MIXTER-O'SHAUGNESSY, Präparier- und Ligaturklemmen	604
MOLLISON, Wundspreizer	427
Monitore, Flachbild-	282, 283
Monoplare Elektrodenhandgriffe	317-319, 324
Monopolare Anschlusskabel	317, 324, 332, 333
Monopolare Elektroden	320-323, 325
Monopolare Elektrodenhandgriffe, Einmal-	319
Monopolare Pinzetten	326-330
Monopolare Pinzetten, Atraumatische-	330
Monosyn	621
MORRIS, Atraumatische Gefäßklemme	152
MORSE, Feine Gefäßscheren	541
Sternumsperrer	391
MOSQUITO, Feine Arterienklemmen	580
Motorensysteme	1-4
MOYNIHAN, Arterienklemmen	597
Feine Arterienklemmen	583
MÜHLING, Raspatorien	341
MÜLLER, Atraumatische Gefäßclips	117
DUROGRIP Nadelhalter	264
DUROGRIP Nahtpinzette	264
Fadenklemmen	116
Gefäßclips	116
Mikro-Nadelhalter	90, 91
Mikro-Pinzetten	56, 57
Mikro-Scheren	46, 47
MÜNSTER, Retraktionssystem	430-437
Myokard-Fasszangen, Atraumatische-	611
Myrtenblattsonden	229

N

NABATOFF, Venenstripper	215
Nadelelektroden	320-323, 325
Nadelhalter, DIA DUST	15, 68-79, 95
DUROGRIP	80-83, 258, 264, 622-629, 631-634, 640-643
Hartmetall-	622-635, 640-643
Mikro-	12, 13, 68-77, 80-91, 95
mit Schere, DUROGRIP	630
selbstaufrichtender-	259
Sternumdraht	376, 377
TITANIUM	12, 13, 15
Nadeln, Endo-Unterbindungs-	267
Heparin-	209
Nahthäkchen	266
Nahtmaterial	62-65, 636-639
Nahtmaterial für Hautverschluss	620, 621
Nahtmaterial, Bypass	64, 65
CV Pass	62-65
Gefäßanastomosen	64, 65
Herzklappenersatz	62, 63
Koronararterien	64, 65
Nahtpinzetten, DUROGRIP	264, 564
NEGUS, Arterienklemmen	598

	Seite
Nelson BiBox	305
Nelson deluxe Elektrochirurgie-Gerät	300, 301
NELSON, Fasszange	240, 241
Lungenfasspinzetten	579
NELSON-METZENBAUM, DUROTIP Präparierscheren	505, 509, 510
Präparierscheren	499, 532
NELSON-METZENBAUM (MC INDOE), DUROTIP Präparierscheren	506
Nerv-Approximatoren	114
Nerv-Präparierscheren	523, 535
Nervhäkchen	224-227
NISSEN, Feine Arterienklemmen	585
Präparier- und Ligaturklemmen	600
NOIR Präparierscheren	494-499
NOTO, Organ- und Gewebefasszangen	471
Tupfer- und Schwammzangen	471

O

Oberbauchrahmen GNAUERT	430, 434-437
OCHSNER, Atraumatische Gefäßklemmen	159
O´CONNELL, Dissektoren	221
Öhrsonden	229
Ölspray	660-663, 665, 668
Offset-Scheren	551
Oliven, Venenstripper	215, 216
Organfasszangen	242, 243, 252, 253, 468, 470, 471, 613-615, 617-619
Organfasszangen, Atraumatische-	242, 243, 469, 610-612, 616
Organisationssystem, Instrumenten	32-35
Organzangen	240, 241
ORMROD-SCHMITT, Ligaturplättchen	369
O'SHAUGNESSY, Präparier- und Ligaturklemmen	604, 606
Oszillierende Sägen	4
OVERHOLT, Präparier- und Ligaturklemmen	600-605
Präparierzangen	250, 251
OVERHOLT-GEISSENDOERFER, Präparier- und Ligaturklemmen	601
OVERHOLT-MIXTER, Präparier- und Ligaturklemmen	601

P

Pädiatrie, TITANIUM Atraumatische Gefäßklemmen	29
PARRY-COOLEY, Atraumatische Gefäßklemmen	176
PARSONNET, Wundpreizer	419
PARTSCH, Raspatorien	336
PARTSCH MOD. LANGE, Raspatorien	336
Patches, Gefäß-	206, 207
PAUL, Wund-und Venenhaken	438
PEAN, Arterienklemmen	590, 592, 597
Atraumatische Gefäßklemmen	133
PENFIELD, Dissektoren	220, 221
PENNINGTON, Organ- und Gewebefasszangen	617
PENNYBACKER, Dissektoren	221
Raspatorien	343
Peritonealscheren	238, 239
PERWITZSCHKY, Feine Scheren	539
Pflege, Instrumenten-	660-666, 668
Pflegehinweise	32-35
Pflegeöle, Sterilit	660-663, 665, 668
Phlebextraktoren	217
Phlebodissektoren	217
Pinzetten, Anatomische-	17, 18, 569
Anatomische-, Bajonettförmige-	570
Anatomische-, Feine-	565-568
Atraumatische-	16, 265, 330, 560, 561
Atraumatische-, Ultra-Light	559
BipoJet-	294-299, 306-308
Bipolare-	294-299, 306-313
Chirurgische-	17, 18, 330, 576-578
Chirurgische-, Feine-	571-575
Clipanlege-	112, 113
DIA DUST-	48-55, 94, 95, 563
DUROGRIP-	562-564
DUROGRIP Naht-	264
Fass-	18
Gefäß-	578
Hartmetall-	562-564
Haut-	573
Herzklappen-	579
Knüpf-	58
Knüpf-, Uhrmacher-Modelle	59-61
Koagulations-	309-313, 328-330
Lungenfass-	579
Mikro-	10, 11, 48-61, 94, 95
Mikro-, Uhrmacher-Modelle	59-61
Monopolare-	326-330
Naht-	564
TITANIUM-	10, 11, 16-18
Tumor-	578
Plättchen, Ligatur-	369
Plattenelektroden	321
Pledgets, PTFE, Herzklappenersatz	62, 63
PLESTER, Saugkanülen	650
Pleuraelevatoren, Endo-	247
POOL, Saugkanülen	646
Poplitea-Sperrer	422
POTTS, Gefäßscheren	546-548
Präparierscheren	524
POTTS-DE MARTEL, Gefäßscheren	548, 549
POTTS-DE-MARTELL acc. SAID, Endo-Gefäßschere	248, 249
POTTS-SMITH, Gefäßscheren	544, 549
Supercut Scheren	518
Präparationshäkchen	442
Präparierklemmen	250, 251, 599-609
Präparierscheren	238, 248, 249, 514-517, 520, 521, 523-532, 543
BipoJet	294-299, 302, 303

Seite

Präparierscheren, Bipolare- 294-299, 302, 303
DUROTIP- 502-507
DUROTIP mit Wellenschliff 508-510
Feine- 534, 535
Hartmetall- 502-511
Mikro- 45
Nerv- 535
NOIR- 494-499
Supercut- 514-517
Präparierzangen 238, 239, 244, 245, 250, 251
PremiCron 62, 63
PremiCron, Sternum-Verschluss 636, 637
Premilene 64, 65, 621
PRICE-THOMAS, Gefäßklemmen 184
PrimeLine, Sterilcontainer 656-659
Probeexzionszangen 240, 241
Profundaklemmen, Atraumatische- 137
Prothesen, Gefäß- 186-207
ProVena, Gefäßprothesen 204, 205
PROVIDENCE-HOSPITAL, Feine Arterienklemmen 581
Pumpe, Spül-, Fluid3 288, 289
Punktionskanülen, Sternum- 352

Q

QUERVAIN, Elevatoren 223

R

RAABE, Mikro-Saugkanülen 649
RAGNELL, Feine Präparierscheren 535
RAMPLEY, Tupfer- und Schwammzangen 468
RANKIN, Feine Arterienklemmen 584
Raspatorien 336-346
REILL, Drahtschneidezangen 374
Mikro-Nadelhalter 85
Repositionszangen 368
REIN-KUPKA, DUROGRIP Nadelhalter 624
Reinigungshinweise 664-666, 668
REMINGTON-HOBB, Monopolare Pinzetten 329
Repositionszangen 368
RESANO, Herzklappenpinzetten 579
TITANIUM Fasspinzette 18
Retraktionsband, Surgical Loop 66, 67
Retraktionsinstrumente 267
Retraktionssysteme in der Gefäßchirurgie 430-437
Retraktoren, Epikard- 419
Fächer- 267
I.M.A. 419
REVERDIN, Bauchspatel 457
REYNOLDS, Präparierscheren 524
REYNOLDS-JAMESON, Gefäßscheren 535
RIBBON, Bauchspatel 457
Ring Retraktionssystem 430-437

Seite

Ring, Abdominal- 433-437
Rippenhaltezangen 367
Rippenkontraktoren 382
Rippenscheren 354, 355
Rippensperrer 382, 384-395
Rippenstripper 338
ROBERTS, Arterienklemmen 596
ROBIN, Tuchklemmen 474
ROCHARD, Bauchdeckenhalter 461
Befestigungsgestell für Bauchdeckenhalter 460
Fixiervorrichtung für Bauchdeckenhalter 461
ROCHESTER-CARMALT, Arterienklemmen 595
ROCHESTER-OCHSNER, Arterienklemmen 593
ROCHESTER-PEAN, Arterienklemmen 591
ROEDER, Tuchklemmen 473
RÖTTGEN-RUSKIN, Hohlmeißelzangen 361
Rohre, Saug-Spül- 247
ROSS, Aortenhaken 412
RUMEL, Präparier- und Ligaturklemmen 605
RUMEL-BELMONT, Tourniquets 212
RUSKIN, Hohlmeißelzangen 361
RUSKIN-LISTON, Knochensplitterzangen 358
RUSS. MODELL, Chirurgische Pinzetten 578
RYDER, DIA DUST Nadelhalter 78
DUROGRIP Nadelhalter 623, 625
TITANIUM DIA DUST, Nadelhalter 15

S

Sägeblätter, Sternum- 4
Sägen, oszillierende 4
Sternum- 1-4
Stich- 4
SAROT, Arterienklemmen 596
Bronchusklemmen 185
DUROGRIP, Nadelhalter 628
Feine Arterienklemmen 589
SATINSKY, Anastomosenklemmen 181, 182
Atraumatische Gefäßklemmen 142, 167, 177, 256, 257, 260, 261
Gefäßscheren 545
SATINSKY mod. ALIMI, Atraumatische Gefäßklemmen 260, 261
SAUERBRUCH, Lungenspatel 401
Rippenscheren 354
Wundhaken 401
SAUERBRUCH-CORYLLOS, Hohlmeißelzangen 366
Saug-Spül-Rohre 247
Sauggriff 209
Saugkanülen 644-648, 650-653
Saugkanülen, Koagulations- 331
Mikro- 649
SAYRE, Raspatorien 338
Scapula-Haken 402
SEBILEAU, Elevatoren 223
SEDILLOT, Raspatorien 342

	Seite
Sehnenscheren	522
Seitenschneider	374
Selbstaufrichtender Nadelhalter	259
SELLORS, Rippensperrer und -kontraktor	382
SELMAN, Chirurgische Pinzetten	578
SEMB, Gefäßklemmen	184
Hohlmeißelzangen	365
Knochenhaltezangen	367
Raspatorien	345
SEMKEN, Feine anatomische Pinzetten	567
Feine chirurgische Pinzetten	574
Sets, SUSI Behandlungs-	232-235
SEWALL, Elevatoren	339
Shunt Klemmen, Carotis	183
Shunts, Instrumentarium für die Anlage von AV-	92-95
Sicherheitsskalpelle, Carbon steel	477-479
Siebkörbe	656-659
Sieborganisation	32-35
Silver Graft, Gefäßprothesen	186, 188, 189
SIMON, Bauchdeckenhakenn	455
SIMS, DUROTIP Präparierscheren	507
SIMS-MAIER, Korn- und Tupferzangen	467
Single use, Instrumente	232-235
Sicherheitsskalpelle	477-479
Skalpellklingen	487, 488, 491
Sterilskalpelle	480-482
Skalpelle	492, 493
Skalpelle, Einmal-	480, 482
Einmal-, Carbon steel	477-481
Einmal-, Stainless steel	480, 481
Mikro-	482
Sicherheits-	477-479
Steril-	477-482
Skalpellgriffe	266, 483-486, 489, 490
Skalpellgriffe, Mikro-Klingen	489, 490
Skalpellklingen	266, 487, 488, 491
Skalpellklingen, Carbon steel	487, 488
Einmal-	487, 488, 491
Stainless steel	487, 488, 491
Sonden, Fistel-	228
Hohl-	221, 228
Knopf-	229
Myrtenblatt-	229
Öhr-	229
Spatel, Bauch-	457
Dissektions-	246
Endo Gefäß-	246
Gefäß-	218, 219
Lungen-	398-401
SPENCER-WELLS, Arterienklemmen	590
Sperrer, Carotis-	422
Iliaca-	421
Mammaria-	394, 395
Mercedes-	393
Poplitea-	422

	Seite
Sperrer, Rippen-	382, 384-395
Sternum-	383-395
Sternum-, Kinder-	383-385
Thorax-	383-395
Spray, Öl-	660-663, 665, 668
Spreizer, Gefäß-	421, 422
Wund-	92, 418-429
Spülgriff	209
Spülkanülen, Gefäß-	209
Spülpumpe, Fluid3	288, 289
Zubehör	288, 289
Subclavius Gefäßklemmen	136
SUBRAMANIAN (MODIF.), Atraumatische Gefäßklemmen	160
Supercut, Feine Scheren	512
Gefäßscheren	514-518
Präparierscheren	514-517
Tenotomiescheren	513
Surgical Loop Retraktionsband	66, 67
SUSI, Behandlungs-Sets	232-235
SWEDISH, Dissektoren	221
Systeme, 3-Chip Full HD Kamera-	272, 273
Digitale Dokumentations-	280-283
Instrumenten Organisations-	32-35
Motoren-	1-4
MÜNSTER Retraktions-	430-437
Retraktions-	430-437
Ring-Retraktions-	430-437
Sterilcontainer-	656-659
Wundhaken-	396, 397
zur minimalinvasiven Venenenentnahme	106-109

SCH

Schäfte, Trokar-	268, 269
Schalter, Bipolare Hand-	294-299, 305
Scharfe Löffel	347-351
SCHEDE, Scharfe Löffel	349
Scheren, Arteriotomie-	524
Bipolare Präparier-	294-299, 302, 303
Bulldog-	520
Chirurgische-	501, 508, 552-557
Draht-	370, 371
Dura-	542
DUROTIP-	370, 500-507, 550
DUROTIP Faden-	265
DUROTIP Ligatur-	265
DUROTIP mit Wellenschliff	265, 508-511
Endo-Gefäß-	248, 249
Faden-	41, 93, 500, 508, 511
Feine-	500, 520-523, 533, 535-541
Gefäß-	518, 522, 524, 535, 539-551
Hartmetall-	500-511
Iris-	533
Kleider-	556, 557

	Seite
Scheren, Ligatur-	511
Material-	501, 552-557
Mikro-	36-47, 93
Nerv-Präparier-	523, 535
NOIR-	494-499
NOIR mit Wellenschliff	496-499
Offset-	551
Peritoneal-	238, 239
Präparier-, Feine-	534, 535
Rippen-	354, 355
Schwestern-	556
Sehnen-	522
Sternum-	352, 353
Supercut-	512-518
Tenotomie-	522, 534
Venen-	43
Verband-	556, 557
Wundrand-	553
Schlauch, Druck-	286, 287
Schlauch-Fixierklemme	474
Schlauchklemmen	472
Schlingenelektroden	320, 325
SCHMID, Gefäß-Spülkanülen	209
Gefäßspatel	218
SCHMIEDEN-TAYLOR, Durascheren	542
SCHNIDT, Arterienklemmen	598
SCHOENBORN, Wund- und Venenhaken	440
Schrittmacher-Set, SUSI	234
SCHUHKNECHT, Saugkanülen	652
Schulterblatt-Haken	402
SCHUMACHER, Sternum-Scheren	352
Schutzhülsen	248, 249
Schwammzangen	468, 470, 471
SCHWARTZ, Clipanlegezangen	115
Temporäre Gefäßclips	115
Schwesternscheren	556

ST

ST. BARTS, Nerv- und Gefäßhäkchen	224
Ständer, für Chirurgie-Elektroden	325
Stainless steel, Einmalskalpelle	480, 481
Skalpellklingen	487, 488, 491
STAMM, Knochensplitterzangen	356
STANDARD, DUROGRIP Pinzetten	563
Standfuß für Flachbildschirme	274, 275, 283
Stanzen, Aorten-	208
Starre Trokare	270
Steelex, Elektroden Set	638, 639
Steelex, Sternum Set	636, 637
Sterilcontainer System	656-659
Sterilgutversorgung	656-659
Sterilit, Pflegeöle	660-663, 665, 668
Sterilskalpelle	477-482

	Seite
Steriltrichter, Acculan 3Ti	4
Sternumdraht	636, 637
Sternumdraht-Nadelhalter	376, 377
Sternummeißel	353
Sternumnadelhalter, DUROGRIP	635
Sternumpunktionskanülen	352
Sternumsägeblätter	4
Sternumsägen, Acculan 3Ti	1-4
Sternumscheren	352, 353
Sternumset, Steelex	636, 637
Sternumsperrer	383-395
Sternumverschluss	636, 637
STEVENS, Bipolare Präparierscheren	296, 297, 302
Feine Präparierscheren	522
Feine Scheren	534
Gefäß- und Sehnenscheren	522
Supercut Scheren	513
Stichsägen	4
STILLE, Hohlmeißelzangen	363
Präparierscheren	529
STILLE-BARRAYA, Gefäß- und Tumorpinzetten	578
STILLE-RUSKIN, Hohlmeißelzangen	363
STRANDELL-STILLE, Wund-und Venenhaken	438
STRATTE, DUROGRIP, Nadelhalter	633
STREAMLINE, Mikro-Nadelhalter	77
Stripper, Endarterektomie-	212
Rippen-	338
Venen-	215, 216
STRUCK, Rippensperrer	384
STRULLY, Gefäßscheren	542, 543
Stützfuss, Acculan 3Ti	4

T

Tellermesser	491
Tenotomie Scheren	522, 534
Tenotomie Supercut Scheren	513
Tester, Lichtleitkabel-	278, 279
Thorakoskopie Instrumente	238-247, 268-270
Thorax-Drainage-Set, SUSI	235
Thoraxsperrer	383-395
THOREK, Gefäßscheren	544
THORPE, Feine anatomische Pinzette	565
THUMB, DIA DUST Pinzetten	563
Titan Ligaturclips	98, 100, 102, 104
TITANIUM, Gefäßklemmen	19-29
Instrumente	14
Mikro-Instrumente	6-9
Mikro-Nadelhalter	12, 13
Mikro-Pinzetten	10, 11
Nadelhalter	12, 13, 15
Pinzetten	10, 11, 16-18
TÖNNIS, DUROGRIP Nadelhalter	640
Gefäßspatel	218

	Seite
TÖNNIS, Hohlsonden	221
Präparierscheren	525
TÖNNIS MODIF., DUROGRIP Nadelhalter	640
TÖNNIS-ADSON, DUROTIP Präparierscheren	504, 509
Präparierscheren	497, 524
Tourniquets	212
TRAVERS, Wundspreizer	429
TRELAT, Raspatorien	337
Trokardorne	270
Trokare	268-270
Trokare, flexibel	268, 269
starr	270
Trokarschäfte	268, 269
Tuchklemmen	473-476
TÜBINGER MODELL, Bauchdeckenhaken	455
TUFFIER, Bauchspatel	457
Organ- und Gewebefasszangen	613
Rippensperrer	385, 386
Tumorpinzetten	578
Tunneler	109
Tunnelierungsinstrumente	213
Tupferzangen	240, 241, 464-468, 470, 471
TURNER, Monopolare Pinzetten	328
TUTTLE, Lungenfasspinzetten	579

U

ULRICH-AESCULAP, Korn- und Tupferzangen	465
Ultra-Light-Pinzetten, ATRAUMATA	559
Uni-Graft, Gefäßprothesen	187, 190-194
UNITRAC Haltearm	430-437
Unterbindungsnadeln, Endo-	267

V

VANNAS, Mikro-Scheren	42, 44
VARADY, Mini-Venenstripper-Bestecke	216
Phlebextraktoren	217
Phlebodissektoren	217
Vario Wundhaken-System	396, 397
VascuGraft PTFE, Gefäßprothesen	196, 198-201
VascuGraft SOFT, Gefäßprothesen	197, 202, 203
Vega System zur minimalinvasiven Venenentnahme	106-109
Venen-Dissektoren	109
Venenentnahme, minimalinvasiv	106-109
Venenhaken	225, 438-442
Venenscheren, Mikro-	43
Venenstripper	215, 216
Venenummantelung, Gefäßprothesen	204, 205
Verbandscheren	556, 557
VERRES, Kanülen	286, 287
Verschlussdeckel, Acculan 3Ti	4
VISE, Mikro-Knüpfpinzetten	60
VOLKMANN, Scharfe Löffel	348, 349
Wundhaken	443, 444
VOLLMAR, Bauchdeckenhaken	458, 459

W

Wagen, Endoskopie-	290, 291
WAGENER, Nerv- und Gefäßhäkchen	224
WANGENSTEEN, DUROGRIP Nadelhalter	634
DUROGRIP Pinzetten	564
WATSON-CHEYNE, Raspatorien	340
WAUGH, Feine chirurgische Pinzetten	575
Monopolare Pinzetten	328
WEBER, Atraumatische Gefäßklemmen	161
WEBSTER, DUROGRIP Nadelhalter	627
WEITLANER, Wundspreizer	423-425, 428
WERTHEIM, Atraumatische Gefäßklemmen	149, 165
DUROGRIP Nadelhalter	633
WIKSTROEM, Präparier- und Ligaturklemmen	604
WILLIAMS, Organ- und Gewebefasszangen	619
WILLIGER, Elevatoren	222
Raspatorien	337
Scharfe Löffel	347
WILSON, Arterienklemmen	598
WITT, Sternum-Punktionskanülen	352
WULLSTEIN, Wundspreizer	424
Wundhaken, Kaltlicht-	396, 397
Wundhaken-System, Vario-	396, 397
Wundhakenblätter, Vario Wundhaken-System	397
Wundrandscheren	553
Wundspreizer	92, 418-429
Wundspreizer, Gefäß-	421, 422
WYLIE, Atraumatische Gefäßklemmen	138, 147, 158

X

Xenon Lichtquellen	276, 277
Zubehör	278, 279

Y

YANKAUER, Saugkanülen	647
YASARGIL, Mikro-Scheren	45

Z

Zahnungen, ATRAUMATA	558
Zangen, Abnehme-, Bulldogklemmen	118
Anlege-, Bulldogklemmen	118
Atraumatische Fass-	254, 255
Atraumatische Gewebefass-	469, 610-612, 616

	Seite
Zangen, Atraumatische Lungenfass-	244, 245
Atraumatische Myokard-	611
Atraumatische Organfass-	242, 243, 469, 610-612, 616
Clipanlege-	98-105, 115
Drahtbiege-	371
Drahtfass-	377-379
Drahtschneide-	370-375
Drahtspann-	369, 376, 377
DUROGRIP Drahtspann-	635
DUROGRIP Ligatur-	635
Embolusfass-	209
Endo-Gefäßclipanlege-	110
Endo-Lungenfass-	242, 243
Fass-	238-241, 244, 245, 250, 251
Gewebefass-	468-471, 613-615, 617-619
Hechtmaul-	240, 241
Hohlmeißel-	361-366
Knochenhalte-	367
Knochensplitter-	356-360
Korn-	464-467
Organ-	240, 241
Organfass-	242, 243, 252, 253, 468-471, 613-615, 617-619
Präparier-	238, 239, 244, 245, 250, 251
Probeexzions-	240, 241
Repositions-	368
Rippenhalte-	367
Schwamm-	468, 470, 471
Tupfer-	240, 241, 464-468, 470, 471
ZAUFAL-JANSEN, Hohlmeißelzangen	361
ZENKER, Präparier- und Ligaturklemmen	608
Wundhaken	403
Zubehör, Flachbildmonitor	282, 283
Insufflator	286, 287
Spülpumpe	288, 289
Xenon Lichtquelle	278, 279
ZWEIFEL, DUROGRIP Nadelhalter	641

Seite

Seite

Numerical Index – Nummerischer Index

11 - BA

Cat. No. / Art. Nr.	Page / Seite
1101013	190
1101021	190
1101030	190
1101048	190
1101102	190
1101129	190
1101137	191
1101145	190
1101161	190
1101188	190
1101200	190
1101226	190
1101242	190
1101265	190
1101269	191
1101277	191
1101281	190
1101285	191
1101303	190
1101307	191
1101320	190
1101346	190
1101684	191
1101803	190
1102060	191
1102079	191
1102087	191
1102109	191
1102192	191
1102206	191
1102214	191
1102222	191
1102230	191
1102249	191
1102869	192
1104063	191
1104071	191
1104080	191
1104101	191
1104128	191
1104144	191
1104160	191
1104187	191
1104209	191
1104225	191
1104241	191
1104403	191
1104411	191
1104420	191
1104421	191
1104422	191
1104423	191
1104519	190
1104527	190
1104535	190
1104551	190
1104560	190
1104578	190
1104586	190
1104594	190
1104608	190
1104616	190
1104624	190
1104640	190
1104705	192
1104713	192
1104730	192
1105010	205
1105011	205
1105012	205
1105013	205
1105014	205
1105016	205
1105017	205
1105018	205
1105019	205
1105020	205
1105021	205
1105026	205
1105027	205
1105028	205
1105029	205
1105030	205
1105031	205
1106392	193
1106406	193
1106414	193
1106422	193
1106430	193
1106449	193
1106457	193
1106465	193
1106635	193
1106643	193
1106651	193
1106660	193
1106678	193
1106686	193
1106694	193
1106708	193
1106801	194
1106802	194
1106803	194
1106804	194
1106806	194
1106807	194
1106808	194
1106809	194
1106826	194
1106828	194
1106830	194
1106832	194
1107267	207
1107275	207
1107283	207
1107291	207
1107305	207
1107321	207
1107330	207
1107348	207
1107356	207
1107500	207
1108000	188
1108001	188
1108002	188
1108003	188
1108004	188
1108005	188
1108006	188
1108007	188
1108008	188
1108009	188
1108010	188
1108011	188
1108012	188
1108013	188
1108014	188
1108015	189
1108016	189
1108017	189
1108018	189
1108019	189
1108020	189
1108021	189
1108022	189
1108023	189
1108024	189
1108025	189
16600487	488
16600495	487
16600509	487
16600517	487
16600525	487
16600541	488
16600550	488
16600568	488
16600576	488
16600584	488
16600592	488
16615492	487
16615514	488
16615522	488
16616634	488
5063010	234
5518016	481
5518032	480
5518040	480
5518059	480
5518067	481
5518075	481
5518083	481
5518091	481
5518105	480
AN709R	470, 617
AN710R	470
AN711R	470
AN911R	472
AN912R	472
AN913R	472
BA210	480
BA211	480
BA212	480
BA215	480
BA215-1	480
BA215-C	480
BA218	480
BA219	481
BA220	481
BA221	481
BA222	481
BA223	481
BA224	481
BA311SU	482
BA323SU	482
BA364	482
BA365	482
BA367	482
BA810SU	478
BA811SU	478
BA813SU	478
BA815-1SU	478
BA815-CSU	478
BA815SU	478
BA818SU	478
BA819SU	479
BA820SU	479
BA821SU	479
BA822SU	479
BA823SU	479
BA824SU	479
BA825SU	479

Cat. No. / Art. Nr.	Page / Seite
BA836SU	479
BB045T	489
BB046R	489
BB048R	489
BB052R	489
BB053R	490
BB054R	489
BB057R	490
BB060R	266, 489
BB068R	483
BB070R	485
BB071R	485
BB073R	483
BB074R	483
BB075R	483
BB077R	484
BB078R	485
BB079R	485
BB080R	486
BB084R	486
BB085R	486
BB087R	486
BB088R	486
BB089R	486
BB175R	484
BB176R	484
BB177R	484
BB178R	484
BB331R	491
BB332R	491
BB361R	266, 491
BB362R	266, 491
BB363R	266, 491
BB364R	266, 491
BB365R	266, 491
BB366R	491
BB367R	266, 491
BB368R	491
BB369R	266, 491
BB500	488
BB510	487
BB511	487
BB512	487
BB513	487
BB515	487
BB515-1	487
BB515-C	487
BB518	488
BB519	488
BB520	488
BB521	488
BB522	488
BB523	488
BB524	488
BB525	488
BB536	488
BB540	487
BB542	487
BC004R	533
BC005R	533
BC006R	533
BC007R	533
BC008R	534
BC009R	534
BC010R	534
BC011R	534
BC015R	535
BC017R	535
BC020R	534
BC021R	534
BC022R	534
BC023R	534
BC026R	535
BC027R	535
BC029R	535
BC030R	539
BC033R	539
BC056R	536
BC057R	536
BC060R	536
BC061R	536
BC064R	536
BC065R	536
BC100R	536
BC101R	536
BC106R	537
BC107R	537
BC110R	537
BC111R	537
BC112R	537
BC113R	537
BC117R	537
BC130R	538
BC131R	538
BC135R	538
BC140R	538
BC141R	538
BC144R	538
BC145R	538
BC156R	541
BC157R	541
BC160R	541
BC161R	541
BC162R	520
BC163R	520
BC164R	520
BC165R	520
BC166R	523
BC168R	523
BC170R	522
BC171R	522
BC172R	522
BC173R	522
BC175R	523
BC177R	523
BC178R	524
BC180R	524
BC181R	524
BC186R	522
BC187R	522
BC194R	522
BC195R	522
BC196R	541
BC210B	496
BC210R	500
BC211B	496
BC211R	500
BC211W	508
BC211WB	496
BC224R	501
BC228R	501
BC231R	501
BC231W	508
BC234R	501
BC242R	502
BC243R	502
BC245R	550
BC250R	502
BC251R	502
BC252B	498
BC252R	502
BC253B	498
BC253R	502
BC253W	508
BC253WB	498
BC256R	504
BC257B	496
BC257R	504
BC257W	509
BC257WB	496
BC258R	504
BC259B	496
BC259R	504
BC259W	509
BC259WB	496
BC260R	506
BC261B	497
BC261R	506
BC261W	510
BC261WB	497
BC262R	506
BC263B	497
BC263R	506
BC263W	510
BC263WB	497
BC265B	498
BC265R	506
BC265W	510
BC265WB	498
BC266R	506
BC267B	499
BC267R	506
BC267W	510
BC267WB	499
BC270R	505
BC271B	497
BC271R	505
BC271W	509
BC271WB	497
BC273B	497
BC273R	504
BC273W	509
BC273WB	497
BC274R	505
BC275B	498
BC275R	505
BC275W	509
BC275WB	498
BC276R	505
BC277B	499
BC277R	505
BC277W	509
BC277WB	499
BC279B	499
BC279R	505
BC279W	509
BC279WB	499
BC281B	499
BC281R	505
BC281W	509
BC281WB	499
BC282R	505
BC283B	498
BC283R	503
BC283W	508
BC283WB	498
BC284B	498
BC284R	503
BC284W	508
BC284WB	498
BC287R	506
BC287W	510
BC289R	506
BC290R	507

Numerical Index – Nummerischer Index
BC

Cat. No. / Art. Nr.	Page / Seite
BC291R	507
BC294W	511
BC295W	511
BC296W	511
BC297W	511
BC298W	265
BC303R	553
BC304R	553
BC313R	554
BC314R	554
BC315R	554
BC316R	554
BC317R	554
BC320R	552
BC321R	552
BC323R	552
BC324R	552
BC325R	552
BC326R	552
BC327R	552
BC328R	552
BC330R	552
BC341R	555
BC343R	555
BC344R	555
BC345R	555
BC346R	555
BC403R	553
BC404R	553
BC411R	554
BC413R	554
BC414R	554
BC415R	554
BC416R	554
BC417R	554
BC421R	552
BC423R	552
BC424R	552
BC425R	552
BC426R	552
BC427R	552
BC428R	552
BC441R	555
BC443R	555
BC444R	555
BC445R	555
BC466R	526
BC496R	553
BC497R	553
BC515R	547
BC516R	547
BC517R	547
BC518R	547
BC519R	547
BC522R	547
BC523R	547
BC524R	547
BC525R	547
BC526R	547
BC531R	547
BC532R	547
BC533R	547
BC534R	547
BC535R	547
BC544R	526
BC545R	526
BC547R	526
BC554R	526
BC555R	526
BC557R	526
BC558R	502
BC559R	502
BC560R	528
BC561R	528
BC562R	527
BC563R	527
BC564R	527
BC565R	527
BC570R	526
BC572R	526
BC573R	526
BC575R	526
BC576R	527
BC577R	527
BC578R	527
BC579R	527
BC580R	529
BC581R	529
BC584R	530
BC585R	530
BC587R	530
BC588R	530
BC589R	530
BC590R	529
BC591R	529
BC592R	529
BC597R	544
BC600R	531
BC601R	531
BC602R	531
BC603R	531
BC604R	531
BC605R	531
BC606R	531
BC607R	531
BC611R	532
BC612R	532
BC613R	532
BC614R	532
BC615R	532
BC616R	532
BC618R	532
BC619R	532
BC628R	523
BC629R	524
BC630R	524
BC631R	524
BC633R	525
BC634R	525
BC635R	525
BC636R	544
BC638R	544
BC639R	544
BC640R	545
BC641R	545
BC642R	542
BC643R	544
BC644R	542
BC645R	543
BC646R	549
BC647R	548
BC648R	548
BC649R	548
BC650R	549
BC651R	549
BC652R	549
BC653R	548
BC654R	548
BC656R	548
BC657R	548
BC658R	544
BC659R	544
BC660R	542
BC662R	548
BC663R	548
BC664R	548
BC669R	551
BC670R	551
BC678R	550
BC679R	550
BC680R	531
BC683R	531
BC685R	303
BC686R	296-299, 303
BC687R	294, 295, 303
BC688R	294, 295, 303
BC689R	294, 295, 303
BC690R	303
BC691R	302
BC692R	302
BC693R	296, 297, 302
BC694R	302
BC695R	302
BC696R	296, 297, 302
BC715R	543
BC815R	371
BC848R	557
BC849R	557
BC860R	557
BC861R	557
BC862R	557
BC863R	557
BC876R	557
BC881R	556
BC885R	556
BC890R	556
BC900R	512
BC901R	512
BC903R	512
BC904R	513
BC905R	513
BC906R	513
BC907R	513
BC909R	513
BC911R	514
BC915R	514
BC916R	514
BC917R	514
BC919R	514
BC922R	516
BC924R	515
BC925R	515
BC926R	515
BC927R	515
BC929R	516
BC930R	517
BC931R	517
BC934R	517
BC935R	517
BC936R	517
BC937R	517
BC938R	516
BC939R	513
BC945R	518
BC947R	518
BC949R	518
BC951R	518
BC953R	518
BC957R	519
BC958R	519
BC959R	519
BC970R	556
BC971R	556
BC973R	556
BC975R	556
BC977R	556

Cat. No. / Art. Nr.	Page / Seite
BC978R	556
BC979R	556
BC980R	556
BC981R	556
BC983R	556
BC985R	556
BC987R	556
BC988R	556
BC989R	556
BD023R	569
BD025R	569
BD027R	569
BD029R	569
BD030R	569
BD031R	569
BD032R	569
BD033R	569
BD043R	569
BD045R	569
BD047R	569
BD049R	569
BD050R	569
BD051R	569
BD052R	569
BD053R	569
BD151R	562
BD154R	562
BD156R	562
BD157R	562
BD158R	562
BD159R	562
BD160R	563
BD164R	563
BD165R	563
BD166R	563
BD168R	563
BD171R	564
BD173R	564
BD180R	564
BD181R	564
BD185R	264
BD190R	53
BD191R	53
BD192R	53
BD193R	53
BD194R	53
BD195R	53
BD196R	53
BD197R	53
BD198R	563
BD200R	563
BD201R	563
BD213R	567
BD215R	567
BD216R	567
BD217R	567
BD220R	565
BD221T	17
BD222R	565
BD223R	565
BD225R	565
BD227T	18
BD228R	567
BD229R	567
BD230R	567
BD236R	567
BD238R	568
BD239R	568
BD240R	568
BD243R	568
BD246R	568
BD247R	568
BD260R	61
BD261R	61
BD264R	61
BD268R	567
BD269R	567
BD301R	566
BD302R	566
BD303R	566
BD304R	566
BD305R	566
BD311R	566
BD312R	566
BD313R	566
BD314R	566
BD315R	566
BD329R	59
BD330R	59
BD331R	59
BD333R	59
BD335R	59
BD336R	60
BD337R	60
BD338R	60
BD340R	61
BD343R	59
BD345R	59
BD501R	574
BD505R	60
BD506R	572
BD507R	572
BD508R	572
BD509R	571
BD510R	571
BD511R	571
BD512R	571
BD513R	572
BD514T	17
BD516T	17
BD520R	571
BD521R	572
BD522R	572
BD523R	572
BD527R	576
BD533R	576
BD535R	576
BD537R	576
BD539R	576
BD540R	576
BD541R	576
BD542R	576
BD543R	576
BD547R	577
BD549R	577
BD552R	576
BD553R	576
BD555R	576
BD557R	576
BD559R	576
BD560R	576
BD561R	576
BD562R	576
BD563R	576
BD575R	577
BD577R	577
BD579R	577
BD580R	577
BD581R	577
BD657T	18
BD660R	575
BD661R	575
BD662R	575
BD663R	575
BD664R	575
BD665R	574
BD666R	574
BD667R	574
BD668R	574
BD669R	574
BD670R	575
BD671R	575
BD672R	575
BD679R	575
BD700R	573
BD701R	573
BD702R	573
BD710R	579
BD711R	579
BD712R	579
BD715T	18
BD725R	578
BD726R	578
BD727R	578
BD735R	578
BD736R	578
BD750R	578
BD755R	578
BD760R	578
BD761R	578
BD801R	579
BD802R	579
BD852R	330
BD853R	330
BD854R	330
BD855R	330
BD856R	330
BD857R	330
BD858R	330
BD859R	330
BD860R	330
BD883R	570
BD885R	570
BD886R	570
BD887R	570
BD888R	570
BF032R	464
BF033R	464
BF040R	464
BF041R	464
BF046R	464
BF047R	464
BF056R	466
BF057R	466
BF058R	466
BF059R	466
BF060R	465
BF061R	465
BF062R	465
BF063R	465
BF070R	467
BF071R	467
BF076R	467
BF077R	467
BF112R	468
BF113R	468
BF116R	468
BF118R	468
BF120R	468
BF121R	468
BF122R	468
BF123R	468
BF301R	613
BF426R	473

Numerical Index – Nummerischer Index
BF - BJ

Cat. No. / Art. Nr.	Page / Seite
BF431R	473
BF432R	473
BF433R	473
BF436R	473
BF437R	473
BF439R	474
BF440R	474
BF442R	474
BF443R	474
BF444R	473
BF448R	473
BF458R	476
BF459R	476
BF460R	475
BF461R	475
BF463R	475
BF464R	475
BF465R	475
BF466R	475
BH011R	118
BH012R	118
BH013R	118
BH014R	118
BH015R	118
BH016R	118
BH017R	118
BH018R	118
BH020R	118
BH021R	118
BH022R	118
BH023R	118
BH026R	118
BH027R	118
BH030R	119
BH031R	119
BH032R	119
BH034R	119
BH104R	580
BH105R	580
BH106R	581
BH108R	580
BH109R	580
BH110R	580
BH111R	580
BH114R	580
BH115R	580
BH118R	580
BH119R	580
BH120R	580
BH121R	580
BH123R	582
BH124R	583
BH125R	583
BH126R	583
BH127R	583
BH130R	581
BH131R	581
BH134R	581
BH135R	581
BH139R	581
BH140R	582
BH141R	582
BH143R	581
BH144R	582
BH145R	582
BH150R	582
BH151R	582
BH154R	582
BH155R	582
BH160R	583
BH161R	583
BH164R	584
BH165R	584
BH166R	584
BH167R	584
BH168R	585
BH170R	583
BH171R	583
BH176R	584
BH177R	584
BH178R	585
BH183R	586
BH187R	586
BH191R	587
BH193R	587
BH196R	588
BH197R	588
BH198R	585
BH199R	585, 600
BH200R	585
BH201R	585
BH202R	585
BH203R	585
BH205R	586
BH206R	587
BH207R	587
BH209R	587, 604
BH210R	586
BH211R	586
BH212R	585
BH213R	585
BH214R	586
BH215R	586
BH216R	587
BH217R	587
BH224R	589
BH225R	589
BH226R	596
BH228R	588
BH229R	588
BH234R	589
BH238R	588
BH239R	588
BH332R	590
BH333R	590
BH334R	590
BH335R	590
BH336R	590
BH337R	590
BH338R	590
BH339R	590
BH361R	590
BH412R	590
BH413R	590
BH414R	590
BH415R	590
BH422R	590
BH424R	590
BH425R	590
BH442R	591
BH443R	591
BH444R	591
BH445R	591
BH446R	591
BH447R	591
BH448R	591
BH449R	591
BH450R	591
BH451R	591
BH470R	592
BH471R	592
BH472R	592
BH473R	592
BH474R	592
BH475R	592
BH612R	593
BH614R	593
BH615R	593
BH618R	593
BH619R	593
BH630R	593
BH631R	593
BH642R	594
BH643R	594
BH644R	594
BH645R	594
BH646R	594
BH647R	594
BH648R	594
BH649R	594
BH650R	594
BH651R	594
BH652R	594
BH653R	594
BH654R	594
BH655R	594
BH686R	296-299, 304
BH687R	294, 295, 304
BH689R	294, 295, 304
BH800R	595
BH801R	595
BH804R	595
BH805R	595
BH807R	595
BH808R	595
BH812R	596
BH813R	596
BH814R	596
BH831R	597
BH833R	597
BH835R	597
BH837R	597
BH839R	597
BH902R	617
BH906R	470, 617
BH908R	470, 617
BH949R	598
BH951R	598
BH952R	598
BH957R	598
BH959R	598
BH961R	598
BH963R	598
BH965R	598
BJ002R	599
BJ008R	599
BJ009R	599
BJ011R	599
BJ012R	599
BJ013R	600
BJ014R	600
BJ015R	600
BJ016R	600
BJ017R	600
BJ018R	600
BJ019R	601
BJ020R	601
BJ021R	601
BJ022R	601
BJ023R	601
BJ024R	601
BJ025R	601
BJ026R	601
BJ029R	606

Cat. No. / Art. Nr.	Page / Seite
BJ031R	601
BJ032R	601
BJ033R	601
BJ034R	601
BJ035R	601
BJ037R	607
BJ038R	607
BJ039R	607
BJ041R	605
BJ042R	605
BJ043R	605
BJ044R	605
BJ045R	605
BJ047R	608
BJ048R	608
BJ050R	604
BJ051R	604
BJ052R	605
BJ055R	607
BJ057R	606
BJ058R	606
BJ059R	606
BJ060R	609
BJ061R	609
BJ062R	609
BJ067R	604
BJ068R	609
BJ070R	607
BJ073R	609
BJ080R	602
BJ081R	602
BJ082R	602
BJ083R	602
BJ086R	602
BJ090R	602
BJ091R	602
BJ096R	602
BJ100R	603
BJ102R	603
BJ103R	603
BJ104R	603
BJ106R	603
BJ110R	606
BJ111R	602
BJ114R	602
BJ120R	606
BJ121R	606
BJ122R	606
BJ123R	606
BJ124R	606
BJ530R	164
BJ531R	164
BJ532R	164
BJ550R	165
BJ551R	165
BJ552R	165
BJ553R	165
BJ581R	149
BM001R	81
BM002R	81
BM003R	82
BM004R	82
BM005R	82
BM008R	626
BM009R	626
BM011R	626
BM012R	627
BM013R	628
BM014R	627
BM015R	627
BM016R	628
BM017R	628
BM018R	627
BM019R	628
BM020R	628
BM021R	628
BM022R	628
BM023R	628
BM024R	627
BM025R	631
BM026R	631
BM027R	631
BM030R	628
BM032R	631
BM033R	631
BM034R	631
BM035R	631
BM036R	631
BM037R	631
BM038R	631
BM040R	632
BM042R	634
BM044R	623
BM045R	623
BM046R	623
BM047R	623
BM051R	632
BM052R	632
BM054R	623
BM055R	623
BM056R	623
BM057R	623
BM058R	623
BM063R	631
BM064R	631
BM065R	629
BM066R	629
BM067R	629
BM068R	629
BM069R	629
BM070R	629
BM074R	625
BM075R	625
BM076R	625
BM077R	629
BM078R	629
BM081R	633
BM084R	633
BM089R	264
BM090R	634
BM092R	634
BM095R	633
BM096R	633
BM100R	633
BM101R	633
BM102R	633
BM106R	264
BM110R	377, 635
BM111R	377, 635
BM112R	377, 635
BM113R	376, 635
BM124R	630
BM127R	630
BM128R	630
BM129R	630
BM132R	642
BM148R	643
BM149R	643
BM150R	643
BM151R	643
BM153R	643
BM154R	643
BM156R	643
BM158R	643
BM165R	642
BM168R	642
BM170R	641
BM172R	641
BM178R	641
BM183R	640
BM184R	625
BM186R	640
BM300R	79
BM301R	78
BM302R	78
BM310R	624
BM311R	624
BM320R	624
BM325R	78
BM327R	78
BM328R	78
BM385T	15
BM386T	15
BM387T	15
BM560R	84
BM562R	84
BM563R	87
BM564R	87
BN020R	228
BN021R	228
BN022R	228
BN023R	228
BN024R	228
BN034R	229
BN036R	229
BN040R	229
BN054R	229
BN063R	229
BN064R	229
BN066R	229
BN068R	229
BN070R	229
BN090R	229
BN095	229
BN096	229
BN104R	229
BN110	229
BN113R	229
BN114R	229
BN116R	229
BN118R	229
BN120R	229
BN125R	229
BN134R	229
BN136R	229
BN138R	229
BN140R	229
BN150R	229
BT075R	225
BT080R	225
BT081R	227
BT082R	225
BT083R	225
BT084R	227
BT088R	227
BT089R	227
BT090R	227
BT091R	227
BT170R	438
BT171R	438
BT172R	438
BT180R	438
BT181R	438

Numerical Index – Nummerischer Index
BT - BV

Cat. No. / Art. Nr.	Page / Seite
BT182R	439
BT183R	439
BT184R	440
BT185R	440
BT190R	439
BT192R	440
BT200R	442
BT201R	442
BT202R	442
BT206R	442
BT210R	441
BT211R	441
BT212R	441
BT213R	441
BT214R	441
BT215R	441
BT216R	441
BT217R	441
BT232R	443
BT234R	443
BT238R	443
BT239R	443
BT240R	443
BT241R	443
BT242R	444
BT243R	444
BT244R	444
BT246R	444
BT248R	444
BT252R	444
BT253R	444
BT254R	444
BT256R	444
BT257R	444
BT258R	444
BT259R	444
BT260R	444
BT261R	444
BT262R	445
BT263R	445
BT264R	445
BT265R	444
BT266R	445
BT272R	445
BT273R	445
BT274R	445
BT276R	445
BT320R	446
BT321R	446
BT322R	446
BT323R	446
BT325R	446
BT326R	446
BT327R	448
BT328R	448
BT340R	448
BT354R	447
BT356R	447
BT357R	447
BT358R	447
BT359R	447
BT361R	447
BT363R	447
BT364R	447
BT365R	447
BT404R	449
BT405R	449
BT406R	449
BT440R	453
BT441R	453
BT442R	453
BT443R	453
BT444R	453
BT445R	453
BT446R	453
BT457R	439
BT458R	439
BT508R	454
BT509R	454
BT510R	454
BT511R	454
BT512R	454
BT513R	454
BT514R	401
BT521R	401
BT522R	401
BT523R	401
BT531R	402
BT551R	398
BT552R	398
BT553R	399
BT559R	400
BT560R	400
BT561R	400
BT594R	403
BT595R	403
BT596R	403
BT597R	403
BT600R	405
BT601R	405
BT602R	406
BT603R	406
BT604R	407
BT605R	408
BT606R	405
BT607R	407
BT608R	408
BT611R	409
BT613R	409
BT614R	410
BT615R	410
BT621R	450
BT622R	451
BT623R	451
BT624R	451
BT625R	432, 437
BT630R	452
BT633R	452
BT640R	458
BT641R	458
BT642R	458
BT643R	459
BT644R	459
BT645R	459
BT655R	456
BT656R	456
BT657R	456
BT658R	456
BT659R	456
BT708R	460
BT709R	460
BT710R	461
BT711R	461
BT712R	461
BT713R	461
BT714R	461
BT715R	461
BT730R	411
BT732R	411
BT749R	457
BT750R	457
BT751R	457
BT752R	457
BT755R	457
BT756R	457
BT758R	457
BT761R	457
BT762R	457
BT763R	457
BT799R	396
BT800R	396
BT801R	397
BT802R	397
BT803R	397
BT806R	397
BT807R	397
BT808R	397
BT812R	397
BT813R	397
BT814R	397
BT815R	397
BT817R	397
BT818R	397
BT819R	397
BT820R	397
BT821R	397
BT822R	397
BV006R	418
BV007R	418
BV009R	418
BV010R	419
BV011R	419
BV014R	419
BV021R	419
BV022R	419
BV023R	419
BV024R	419
BV028R	420
BV030R	420
BV032R	420
BV033R	420
BV059R	92
BV066R	423
BV067R	423
BV068R	425
BV070R	423
BV071R	423
BV072R	425
BV073R	423
BV074R	423
BV075R	425
BV076R	424
BV077R	424
BV085R	426
BV088R	427
BV092R	427
BV093R	427
BV094R	426
BV097R	422
BV098R	422
BV099R	422
BV101R	424
BV104R	424
BV113R	427
BV120R	426
BV199R	428
BV200R	428
BV201R	428
BV203R	428
BV205R	428
BV206R	428
BV207R	428
BV208R	428
BV209R	428
BV247R	429

Cat. No. / Art. Nr.	Page / Seite
BV249R	429
BV251R	426
BV348R	422
BV349R	422
BV512R	385
BV555R	432, 435, 436
BV556R	432, 435, 436
BV557R	436
BV709R	421
BV710R	421
BV711R	421
BV712T	421
BV713T	421
BV814R	433
BV815R	432, 433
BV817R	432, 433
BV819R	432, 433
BV821R	432, 433
BV825R	432, 433
BV826R	432, 433
BV827R	435
BV835R	432, 434, 435
BV839R	432, 433
BV840R	433
BV848R	432, 435
BV849R	432, 434, 435
BV945R	432, 436
BV946R	432, 436
BV949R	432, 437
BV952R	432, 437
BV961R	432, 436
BV962R	432, 436
BV972R	432, 436
BV973R	432, 436
DO208R	500
DO209R	500
DO210R	537
DO211R	537
DO219R	540
DO250R	500
DO251R	540
DO510R	337
DO523R	341
DO611R	336
DO612R	336
DO642R	336
DP031R	378
DP035R	378
DP501R	371
DP505R	371
DP520R	375
DP530R	371
DP540R	370
DP541R	370
DP551R	370
DP552R	370
EA010R	613
EA012R	613
EA013R	614
EA014R	614
EA015R	614
EA016R	614
EA017R	614
EA018R	614
EA020R	615
EA025R	615
EA026R	615
EA028R	619
EA030R	611
EA031R	611
EA032R	611
EA033R	611
EA036R	618
EA037R	617
EA039R	618
EA040R	618
EA041R	618
EA042R	618
EA050R	610
EA052R	610
EA061R	469, 616
EA062R	469, 616
EA092R	612
EA095R	612
EA096R	612
EA097R	612
EA099R	612
EA100R	612
EB001R	609
EB003R	609
EB220R	209
EJ558R	270
EJ580R	270
EJ586R	270
EJ587R	270
EJ588R	270
EJ590R	269
EJ595R	268
EJ701R	270
EJ715R	270
EJ716R	270
EJ718R	270
EJ751R	270
EJ755R	270
EJ756R	270
EJ800R	269
EJ804P	268
EJ806P	269
EJ824P	268
EJ826P	269
EJ830R	268
EJ995	286, 287
EJ996	286, 287
EL868R	455
EL870R	455
EL872R	455
EL873R	455
EO310R	471
EO315R	471
EO338R	469, 616
EO340R	469, 616
ET141R	353
FB030R	215
FB031R	215, 216
FB032R	215
FB033	215
FB034R	215
FB035R	215
FB036R	215
FB037R	215
FB038R	215
FB040R	215
FB050R	216
FB051R	216
FB053R	216
FB054R	216
FB055R	216
FB108R	212
FB109R	212
FB110R	212
FB112R	212
FB113R	212
FB114R	212
FB115R	212
FB116R	212
FB117R	212
FB119R	212
FB120R	217
FB121R	217
FB122R	217
FB124R	217
FB125R	217
FB126R	217
FB141R	222
FB142R	222
FB143R	222
FB150R	219
FB151R	219
FB153R	209
FB154R	209
FB155R	209
FB156R	209
FB158R	218
FB159R	218
FB160R	210
FB161R	210
FB162R	210
FB163R	210
FB164R	210
FB165R	210
FB166R	210
FB167R	210
FB168R	210
FB169R	210
FB170R	210
FB172R	210
FB180R	208
FB184R	208
FB185R	208
FB186R	208
FB194R	208
FB195R	208
FB196R	208
FB201R	208
FB202R	208
FB203R	208
FB204R	208
FB222R	98
FB223R	99
FB224R	99
FB226R	99
FB227R	99
FB234R	100
FB235R	101
FB236R	101
FB238R	101
FB239R	101
FB240R	102
FB242R	103
FB243R	102
FB245R	103
FB246R	104
FB248R	105
FB249R	104
FB251R	105
FB252R	104
FB253R	105

Numerical Index – Nummerischer Index
FB

Cat. No. Art. Nr.	Page Seite
FB254R	102
FB255R	103
FB281R	611
FB328R	119
FB329R	119
FB330R	119
FB331R	119
FB352R	121
FB353R	121
FB357R	121
FB358R	121
FB359R	121
FB362R	120
FB363R	120
FB364R	120
FB365R	120
FB366R	120
FB367R	120
FB369R	120
FB370R	125
FB374R	125
FB375R	125
FB376R	125
FB377R	125
FB380R	123
FB381R	123
FB382R	123
FB383R	123
FB384R	124
FB385R	124
FB387T	16
FB388T	16
FB389T	16
FB390T	16
FB391T	16
FB392T	16
FB394R	560
FB395R	560
FB396R	560
FB397R	579
FB398R	579
FB399R	579
FB400R	560
FB401R	561
FB402R	560
FB403R	561
FB404R	560
FB405R	560
FB406R	561
FB407R	561
FB408R	561
FB409R	265
FB410R	561
FB411R	560
FB412R	560
FB414R	560
FB415R	560
FB416R	560
FB417R	560
FB418R	560
FB419R	560
FB420R	122
FB421R	122
FB422R	122
FB423R	122
FB424R	122
FB425R	122
FB426R	122
FB427R	122
FB431R	121
FB432R	122
FB433R	122
FB434R	122
FB435R	122
FB436R	122
FB437R	122
FB440R	132
FB441R	132
FB442R	132
FB443R	132
FB444R	133
FB445R	133
FB446R	132
FB447R	132
FB448R	132
FB449R	132
FB450R	145
FB451R	145
FB452R	144
FB453R	144
FB454R	144
FB455R	144
FB456R	144
FB457R	144
FB458R	139
FB459R	139
FB460R	139
FB461R	139
FB462R	139
FB463R	146
FB464R	146
FB465R	146
FB466R	148
FB467R	148
FB468R	148
FB469R	148
FB470R	148
FB471R	157
FB472R	157
FB473R	157
FB475R	157
FB476R	156
FB477R	156
FB478R	156
FB480R	157
FB481R	154
FB482R	154
FB483R	136
FB484R	136
FB485R	136
FB486R	135
FB487R	135
FB488R	161
FB489R	161
FB490R	162
FB491R	162
FB492R	162
FB493R	152
FB494R	152
FB495R	159
FB496R	135
FB497R	135
FB498R	136
FB499R	136
FB500R	141
FB501R	141
FB502R	141
FB503R	141
FB504R	141
FB506R	142
FB507R	142
FB508R	142
FB510R	150
FB511R	150
FB512R	150
FB513R	150
FB515R	151
FB516R	151
FB517R	151
FB518R	151
FB519R	140
FB520R	140
FB521R	140
FB522R	140
FB523R	140
FB524R	140
FB525R	159
FB526R	133
FB527R	133
FB528R	134
FB529R	134
FB530R	134
FB532R	133
FB533R	133
FB534R	133
FB535R	133
FB540R	128
FB541R	128
FB542R	128
FB543R	128
FB544R	128
FB546R	137
FB547R	137
FB548R	137
FB549R	137
FB550R	139
FB552R	144
FB553R	144
FB554R	144
FB557R	130
FB558R	130
FB559R	131
FB560R	131
FB561R	131
FB563R	131
FB567R	130
FB568R	130
FB569R	130
FB570R	131
FB573R	153
FB574R	153
FB576R	160
FB578R	160
FB581R	129
FB582R	129
FB587R	143
FB588R	143
FB590R	129
FB591R	129
FB592R	129
FB593R	129
FB600R	181
FB602R	181
FB604R	181
FB605R	181
FB617R	136
FB618R	155
FB619R	155
FB633R	180
FB634R	180
FB635R	180
FB640R	174
FB641R	174
FB642R	174
FB644R	174
FB647R	174

Cat. No. Art. Nr.	Page Seite
FB648R	174
FB649R	174
FB651R	212
FB653R	212
FB654R	212
FB669R	138
FB670R	138
FB672R	147
FB673R	147
FB674R	147
FB675R	147
FB700R	166
FB701R	166
FB702R	166
FB703R	166
FB704R	166
FB705R	166
FB706R	166
FB707R	166
FB708R	166
FB710R	172
FB711R	172
FB712R	172
FB713R	172
FB714R	172
FB715R	172
FB717R	170
FB718R	170
FB719R	170
FB721R	169
FB722R	169
FB723R	169
FB724R	169
FB725R	169
FB726R	169
FB727R	169
FB729R	171
FB730R	171
FB731R	168
FB732R	168
FB734R	168
FB735R	168
FB736R	171
FB737R	171
FB738R	175
FB741R	167
FB742R	167
FB743R	167
FB754R	173
FB755R	173
FB756R	173
FB764R	178
FB765R	179
FB766R	173

Cat. No. Art. Nr.	Page Seite
FB767R	173
FB773R	176
FB775R	176
FB776R	177
FB777R	177
FB778R	177
FB779R	177
FB780R	177
FB784R	561
FB785R	561
FB786R	561
FB795R	175
FB800R	386
FB802R	386
FB803R	387
FB804R	387
FB805R	388
FB806R	388
FB807R	388
FB808R	389
FB809R	389
FB810R	389
FB811R	389
FB812R	389
FB813R	390
FB814R	390
FB815R	390
FB816R	390
FB817R	390
FB818R	390
FB819R	390
FB820R	393
FB821R	393
FB822R	393
FB823R	393
FB830R	385
FB835R	386
FB836R	386
FB840R	382
FB841R	382
FB842R	382
FB844R	382
FB845R	391
FB846R	391
FB847R	385
FB850R	392
FB851R	392
FB852R	384
FB853R	384
FB854R	384
FB855R	384
FB856R	384
FB857R	384
FB858R	384

Cat. No. Art. Nr.	Page Seite
FB860R	416
FB861R	416
FB862R	416
FB865R	417
FB866R	417
FB870R	354
FB873R	354
FB878R	354
FB881R	354
FB882R	354
FB890R	355
FB892R	355
FB911R	352
FB918R	353
FB923R	414
FB924R	414
FB925R	414
FB926R	414
FB927R	414
FB930R	619
FB934R	611
FB936R	610
FB938R	614
FB940R	183
FB941R	127
FB942R	127
FB950R	184
FB954R	184
FB955R	184
FB956R	149
FB957R	149
FB958R	149
FB961R	184
FB963R	415
FB964R	415
FB965R	415
FB966R	415
FB967R	415
FB968R	415
FB971R	413
FB972R	413
FB973R	413
FB974R	413
FB975R	413
FB976R	413
FC004R	213
FC005R	213
FC014R	213
FC015R	213
FC025R	213
FC030	213
FC034R	213
FC035R	213

Cat. No. Art. Nr.	Page Seite
FC040A	383
FC041A	383
FC042A	383
FC043A	383
FC044A	384
FC048R	214
FC049R	214
FC060R	394, 395
FC061R	395
FC062R	395
FC063R	395
FC064R	395
FC090R	109
FC091R	109
FC092R	109
FC093R	109
FC094R	109
FC300R	163
FC301R	163
FC302R	163
FC303R	163
FC304R	163
FC310R	163
FC311R	163
FC312R	163
FC313R	163
FC314R	163
FC320T	19
FC321T	20
FC322T	21
FC323T	21
FC324T	22
FC325T	22
FC326T	23
FC327T	24
FC328T	24
FC329T	26
FC330T	25
FC331T	25
FC332T	27
FC333T	27
FC334T	28
FC335T	28
FC336T	28
FC337T	29
FC338T	29
FC339T	29
FC340T	29
FC341T	29
FC342T	29
FC343T	29
FC411R	559
FC412R	559
FC413R	559

Numerical Index – Nummerischer Index
FC - FK

Cat. No. / Art. Nr.	Page / Seite
FC418R	559
FD011R	42
FD012R	42
FD013R	42
FD014R	42
FD015R	42
FD016R	43
FD017R	43
FD018R	44
FD019R	44
FD020R	44
FD021R	44
FD022R	45
FD023R	45
FD028R	43
FD045R	88
FD046R	88
FD048R	89
FD076R	87
FD079R	87
FD080R	88
FD081R	88
FD100R	45
FD101R	45
FD103R	45
FD113D	493
FD115D	493
FD116D	493
FD230R	84
FD231R	84
FD232R	84
FD233R	84
FD240R	85
FD241R	85
FD242R	85
FD243R	85
FD244R	86
FD245R	86
FD246R	86
FD247R	86
FD251R	40, 93
FD252R	41, 93
FD253R	55, 95
FD255R	55, 95
FD258R	77, 95
FD259R	77, 95
FD280R	58
FD281R	58
FD284R	58
FD285R	58
FD286R	58
FD287R	58
FD333R	219
FD394R	226
FD395R	226
FD396R	226
FD397R	226
FD398R	226
FD399R	226
FD552R	112
FD554R	112
FD556R	112
FD558R	112
FD560R	112
FD561R	112
FD562R	112
FD568R	112, 113
FD569R	112, 113
FD571R	113
FD572R	113
FD575R	114
FD578R	112
FD611R	113
FD612R	113
FD613R	113
FD614R	113
FD615R	113
FD622R	115
FD623R	115
FD624R	115
FD628R	115
FD635R	114
FD636R	114
FE005K	116
FE010K	116
FE011K	116
FE012K	116
FE013K	116
FE014K	116
FE020K	116
FE021K	116
FE022K	116
FE023K	116
FE024K	116
FE030S	117
FE031S	117
FE032S	117
FE034S	117
FE040S	117
FE041S	117
FE042S	117
FE044S	117
FF291R	220
FF292R	220
FF293R	220
FF294R	220
FF295R	221
FF300R	218
FF301R	218
FF302R	218
FF308R	221
FF347R	221
FF348R	221
FF349R	221
FF730R	221
FG290R	432, 433
FK120R	222
FK121R	222
FK124R	223
FK133R	223
FK291R	340
FK292R	340
FK293R	340
FK299R	339
FK300R	337
FK303R	337
FK310R	337
FK314R	341
FK328R	341
FK329R	341
FK340R	342
FK341R	342
FK344R	342
FK345R	342
FK350R	342
FK355R	344
FK356R	344
FK357R	344
FK358R	344
FK359R	344
FK360R	343
FK361R	343
FK378R	343
FK379R	343
FK381R	345
FK382R	345
FK383R	345
FK384R	345
FK387R	345
FK390R	343
FK391R	343
FK394R	341
FK395R	341
FK396R	341
FK400R	346
FK401R	346
FK402R	346
FK403R	346
FK408R	346
FK409R	346
FK410R	344
FK411R	344
FK412R	344
FK413R	344
FK414R	344
FK420R	344
FK611R	349
FK612R	349
FK613R	349
FK614R	349
FK615R	349
FK616R	349
FK617R	349
FK621R	349
FK622R	349
FK623R	349
FK624R	349
FK625R	349
FK626R	349
FK627R	349
FK630R	349
FK631R	349
FK632R	349
FK633R	349
FK634R	349
FK635R	349
FK636R	349
FK637R	349
FK638R	349
FK639R	349
FK675R	350
FK676R	350
FK677R	350
FK678R	350
FK679R	350
FK702R	350
FK703R	350
FK704R	350
FK705R	350
FK800R	347
FK801R	347
FK803R	347
FK813R	347
FK814R	347
FK817R	347
FK840R	348
FK841R	348
FK842R	348
FK845R	348
FK846R	348
FK848R	348

Cat. No. / Art. Nr.	Page / Seite
FK850R	347
FM001R	56
FM002R	56
FM003R	56
FM004R	56
FM005R	56
FM006R	56
FM010R	47
FM011R	47
FM012R	47
FM013R	47
FM014R	47
FM021R	91
FM033R	57
FM034R	57
FM035R	57
FM036R	57
FM040R	47
FM041R	47
FM042R	40, 93
FM043R	41, 93
FM047R	55, 94
FM053R	54
FM054R	54
FM061R	91
FM063R	54
FM218R	69
FM221R	69
FM223R	69
FM228R	69
FM230R	69
FM232T	13
FM233T	13
FM234T	13
FM236R	77
FM238T	13
FM239T	13
FM240T	13
FM252T	13
FM253T	13
FM254T	13
FM258T	13
FM259T	13
FM260T	13
FM276R	77
FM317T	11
FM318T	11
FM319T	11
FM327T	11
FM328T	11
FM329T	11
FM337T	11
FM338T	11
FM339T	11
FM388R	83
FM390R	83
FM392R	86
FM398R	86
FM430R	39
FM431R	39
FM432R	39
FM433R	39
FM434R	39
FM435R	39
FM436R	39
FM437R	39
FM438R	39
FM439R	39
FM440R	39
FM441R	39
FM442R	39
FM444R	39
FM451R	39
FM452R	39
FM453R	39
FM454R	39
FM455R	39
FM470R	39
FM471R	39
FM472R	39
FM473R	39
FM474R	39
FM476R	37
FM477R	37
FM478R	37
FM479R	37
FM480R	37
FM481R	37
FM482R	37
FM483R	37
FM484R	37
FM485R	37
FM486R	37
FM488R	37
FM489R	37
FM490R	37
FM491R	37
FM492R	37
FM493R	37
FM503R	37
FM504R	37
FM505R	37
FM506R	37
FM507R	37
FM508R	37
FM520R	69
FM521R	69
FM522R	69
FM523R	69
FM524R	69
FM525R	69
FM526R	69
FM527R	69
FM528R	69
FM529R	69
FM530R	69
FM531R	69
FM532R	69
FM533R	69
FM534R	71
FM535R	71
FM536R	71
FM537R	71
FM538R	71
FM539R	71
FM540R	73
FM541R	73
FM542R	73
FM543R	73
FM544R	73
FM545R	73
FM546R	73
FM547R	73
FM548R	73
FM549R	73
FM550R	75
FM551R	75
FM552R	75
FM553R	75
FM554R	75
FM555R	75
FM560R	76
FM561R	76
FM563R	69
FM564R	69
FM565R	69
FM566R	69
FM567R	69
FM568R	69
FM570R	49
FM571R	49
FM572R	49, 94
FM573R	49
FM574R	49
FM575R	49
FM576R	49
FM577R	49
FM578R	49
FM579R	49
FM580R	49
FM581R	49
FM582R	51
FM583R	49
FM584R	51
FM585R	49
FM586R	51
FM587R	51
FM588R	51
FM589R	51
FM590R	51
FM591R	51
FM592R	49
FM593R	49
FM594R	49
FM595R	49
FM596R	49
FM597R	51
FM598R	51
FM599R	49
FM600R	49
FO116R	368
FO118R	368
FO120R	367
FO127R	367
FO130R	367
FO135R	367
FO136R	367
FO500R	361
FO502R	361
FO511R	361
FO514R	361
FO515R	361
FO518R	361
FO520R	361
FO521R	361
FO522R	362
FO523R	362
FO525R	362
FO526R	362
FO527R	362
FO530R	363
FO532R	363
FO534R	363
FO550R	364
FO551R	364
FO555R	365
FO566R	365
FO570R	366
FO572R	366
FO601R	356
FO602R	356
FO604R	356
FO610R	358
FO611R	358

Numerical Index – Nummerischer Index
FO - GK

Cat. No. / Art. Nr.	Page / Seite
FO612R	358
FO614R	358
FO620R	357
FO622R	357
FO624R	357
FO626R	357
FO632R	357
FO634R	357
FO636R	357
FO640R	358
FO641R	358
FO645R	359
FO646R	359
FO647R	359
FO648R	360
FO649R	360
GA059	661-663
GA466	432, 434
GA673	4
GA674	4
GA675	4
GA676	4
GA677	4
GB436	4
GB600	661-663
GB600810	663
GB600820	661-663
GB600830	661-663
GB600840	661-663
GB600870	663
GC671R	4
GC761R	4
GF327R	247
GF350R	653
GF351R	653
GF352R	653
GF353R	653
GF354R	653
GF355R	653
GF360R	653
GF361R	653
GF362R	653
GF363R	653
GF364R	653
GF365R	653
GF370R	653
GF371R	653
GF372R	653
GF373R	653
GF374R	653
GF375R	653
GF380R	653
GF381R	653
GF382R	653
GF383R	653
GF384R	653
GF385R	653
GF391R	648
GF392R	648
GF393R	648
GF394R	648
GF395R	648
GF396R	648
GF397R	648
GF399R	648
GF401R	648
GF402R	648
GF403R	648
GF404R	648
GF405R	648
GF406R	648
GF407R	648
GF409R	648
GF411R	648
GF412R	648
GF413R	648
GF414R	648
GF415R	648
GF416R	648
GF417R	648
GF419R	648
GF421R	648
GF422R	648
GF423R	648
GF424R	648
GF425R	648
GF426R	648
GF427R	648
GF429R	648
GF470R	649
GF471R	649
GF472R	649
GF473R	649
GF474R	649
GF475R	649
GF476R	649
GF477R	649
GF478R	649
GF479R	649
GF480R	649
GF481R	649
GF756R	652
GF757R	652
GF793R	209
GF821R	644
GF822R	644
GF823R	644
GF824R	645
GF825R	645
GF860R	646
GF862R	646
GF867C	647
GF917R	650
GF918R	650
GF923R	651
GF925R	651
GF932R	652
GF933R	651
GF935R	652
GF936R	652
GF937R	652
GF938R	652
GF939R	650
GF940R	650
GF941R	650
GF942R	650
GF944R	647
GF946R	647
GF947R	646
GF948R	646
GK005R	326
GK006R	328
GK007R	326
GK008R	328
GK009R	328
GK010R	327
GK012R	326
GK013R	327
GK015R	328
GK016R	328
GK017R	328
GK033R	327
GK110R	320
GK111R	320
GK112R	320
GK113R	320
GK114R	320
GK115R	320
GK116R	320
GK117R	320
GK118R	320
GK121R	321
GK122R	321
GK123R	321
GK125R	322
GK127R	322
GK128R	322
GK129R	322
GK131R	323
GK132R	323
GK133R	323
GK140R	320
GK141R	320
GK142R	320
GK143R	320
GK144R	320
GK145R	320
GK146R	320
GK147R	320
GK148R	320
GK151R	321
GK152R	321
GK153R	321
GK155R	322
GK157R	322
GK164R	321
GK165R	321
GK174R	321
GK180	333
GK181	333
GK185	315
GK188	315
GK193	316
GK194	316
GK202	316
GK212	316
GK213	315
GK216	315
GK217	316
GK239	332
GK245	333
GK246	333
GK252Y	318
GK253Y	318
GK299	309
GK301R	325
GK303R	325
GK305R	325
GK307R	325
GK310R	325
GK315R	325
GK320R	325
GK321R	325
GK424	323
GK550	331
GK595R	312
GK596R	312
GK597R	312
GK604R	313
GK605R	313
GK606R	313

Cat. No. / Art. Nr.	Page / Seite
GK624R	313
GK625R	313
GK680R	325
GK683R	325
GK685R	307
GK690R	309
GK700R	311
GK701R	311
GK703R	311
GK711R	311
GK713R	311
GK720R	309
GK722R	309
GK723R	309
GK730R	309
GK737R	329
GK738R	329
GK739R	329
GK807R	310
GK808R	310
GK809R	310
GK881R	296-299, 307
GK882R	298, 299, 307
GK883R	294, 295, 307
GK884R	307
GK885R	294, 295, 307
GK886R	307
GK891R	294-299, 308
GK892R	308
GK893R	308
GK894R	294, 295, 308
GK895R	308
GK896R	308
GN073	315
GN074	315
GN076	315
GN077	315
GN078	315
GN081	314
GN082	314
GN083	314
GN084	305
GN085	314
GN086	294-299, 305
GN202	332
GN203	317, 324
GN204	332
GN205	317, 324
GN206	318
GN207	317
GN208	318
GN209	317
GN210	319
GN211	319
GN212	319
GN213	317
GN215	317
GN216	333
GN217	315
GN218	318
GN221	319
GN227	324
GN229	324
GN310	305
GN311	305
GN312	305
GN313	305
GN314	305
GN315	305
GN316	305
GN318	305
JF148R	33, 34, 35
JF214R	34
JF942	34
JG300	34
JG304	33
JG306	33
JG317	33, 34
JG318	33, 35
JG323	33
JG325	34
JG341	34
JG342	34
JG344	34
JG360	35
JG365R	33
JG598	661-663, 665, 667
JG600	661-663, 665, 667
KY002S	369
KY003S	369
KY004S	369
KY005S	369
KY006S	369
KY007S	369
KY008S	369
KY009S	369
KY010S	369
KY012S	369
KY015S	369
KY100S	369
KY220S	369
KY225R	369
LX149R	373
LX150R	375
LX152R	375
LX156R	372
LX157R	372
LX158R	374
LX159R	374
LX163R	375
LX170R	378
LX171R	378
LX172R	378
LX176R	377
LX181R	379
LX182R	379
LX183R	379
LX185R	379
MB047R	412
MB048R	412
MB229R	581
MB238R	183
MB239R	183
MB240	158
MB241	158
MB245	211
MB246	211
MB247	211
MB248	211
MB249	211
MB250	211
MB251	211
MB252	211
MB253	211
MB254	211
MB256	211
MB257	211
MB258	211
MB259	211
MB260	211
MB261	211
MB262	211
MB263	211
MB264	211
MB265	211
MB279R	342
MB285R	119
MB291R	573
MB454R	573
MB580R	174
MB581R	174
MB582R	174
MB603R	229
MB606R	626
MB607R	626
MB608R	185
MB610R	185
MB611R	626
MB612R	626
MB613R	167
MB700R	412
MB701R	412
MB702R	412
MB703R	412
MB737R	126
MB738R	126
MB739R	126
MB740R	126
MB741R	119
MB743R	182
MB744R	182
MB745R	182
MB746R	182
MB747R	182
MB750R	137
MB751R	137
MB752R	137
MB758R	402
MB812R	338
MB816R	338
MB872R	351
MB873R	351
MB874R	351
MB875R	351
MB876R	351
MB877R	351
MB878R	351
MB879R	351
MB880R	351
MD076	404
MD077	404
MD124R	651
MD125R	651
MD127R	651
MD129R	651
MD452R	472
MD453R	472
MD454R	472
MD456R	376, 635
MD463	577
MD464	584
MD465R	584
MD466R	584
MD467R	584
MD468	584
MD469	584
MD470	610
MD568	613
MD569	600

Numerical Index – Nummerischer Index
MD - PO

Cat. No. / Art. Nr.	Page / Seite
MD570R	600
MD610	209
MD611	209
MD652	472
MD653	472
MD654	472
OA200R	420
OA310R	439
OA311R	439
OA312R	439
OA313R	439
OA314R	439
OA340R	438
OA357R	224
OA358R	224
OA359R	224
OC020R	566
OC021R	566
OC022R	566
OC024R	574
OC025R	574
OC026R	574
OC069R	565
OC100R	573
OC415R	520
OC430R	521
OF282R	224
OF283R	224
OF284R	224
OF285R	224
OF288R	224
OG164R	338
OG165R	338
OK365R	521
OK366R	522
OK367R	521
OK368R	521
OK369R	521
OK372R	521
OK373R	521
OK374R	520
OK378R	356
OL157R	341
OL160R	219, 339
OL162R	339
OL163R	339
OL164R	340
OL165R	219, 340
OL166R	340
OL170R	340
OL192R	336
OL198R	339
OL211R	439
OL212R	439
OM307R	222
OM308R	222
OM309R	336
OM311R	337
OM489R	539
OM671R	647
OP906	109, 278, 279
OP913	109, 278, 279
OP914	109, 278, 279
OP917	278, 279
OP930	276, 277
OP931	278, 279
OP936	278, 279
OP937	278, 279
OP938	278, 279
PE889A	282, 283
PE909A	282, 283
PE969A	282, 283
PG003	286, 287
PG008	286, 287
PG011	286, 287
PG012	286, 287
PG014	286, 287
PG019	286, 287
PG027R	288, 289
PG052	288, 289
PG070	288, 289
PG071	288, 289
PG072SU	288, 289
PG073SU	288, 289
PG076	288, 289
PG077	290, 291
PG078	288, 289
PG080	284, 285
PG082	286, 287
PG083	286, 287
PG084	286, 287
PG085	286, 287
PG086	286, 287
PG087	286, 287
PG088	286, 287
PL210R	260, 261
PL211R	260, 261
PL212R	260, 261
PL213R	262, 263
PL214R	262, 263
PL215R	262, 263
PL216R	262, 263
PL217R	262, 263
PL407R	258
PL408R	258
PL413R	258
PL414R	259
PL432R	266
PL530R	110
PL531R	110
PL542S	111
PL543S	111
PL544S	111
PL545S	111
PL546S	111
PL547S	111
PL548S	111
PL549S	111
PL561T	104
PL565T	98
PL566T	98
PL567T	100
PL568T	102
PL657R	246
PL659R	246
PL661R	267
PL662R	267
PL663R	247
PL669R	267
PL680R	267
PM171R	256
PM172R	252
PM173R	254
PM177R	256
PM616R	257
PM637R	238, 239
PM640R	242, 243
PM643R	240, 241
PM651R	252, 253
PM670R	242, 243
PM687R	242, 243
PM689R	255
PM696R	242, 243
PM710R	248, 249
PM711R	257
PM712R	253
PM713R	255
PM940R	239, 241
PM941R	248
PM953R	239, 241, 243, 245, 249,
PM953R	251, 253, 255, 257
PM954R	239, 241, 243, 245, 249, 251, 253, 255, 257
PM955R	239, 241, 243, 245, 249, 251, 253, 255, 257
PM957R	239, 241, 243, 245, 249, 251, 253, 255, 257
PM970R	243
PM971R	243
PM973R	243, 245, 249, 251, 255, 257
PM975R	243, 245, 249, 251, 255, 257
PM976R	255
PM977R	253
PM978R	255
PM983P	239, 241
PM992R	249, 253
PO004R	248
PO014R	248
PO102R	250
PO103R	250
PO118R	252
PO141R	250
PO152R	254
PO188R	244
PO189R	244
PO193R	266
PO196R	252
PO603R	249
PO606R	251
PO608R	251
PO624R	253
PO636R	238, 239
PO638R	240, 241
PO641R	240, 241
PO642R	240, 241
PO661R	251
PO669R	238, 239
PO682R	249
PO684R	255
PO731R	245
PO734R	245
PO741R	253
PO950R	239, 241, 243, 245, 249, 251, 253, 255, 257
PO951R	239, 241, 243, 245, 249,251, 253, 255, 257
PO958R	239, 241, 243, 245, 249, 251, 253, 255, 257
PO959R	239, 241, 243, 245, 249, 251, 253, 255, 257

Cat. No. / Art. Nr.	Page / Seite
PV428	280, 281
PV440	272, 273
PV441	272, 273
PV442	272, 273
PV820	280, 281
PV875	282, 283
PV880	290, 291
PV881	290, 291
PV882	290, 291
PV883	290, 291
PV884	290, 291
PV885	282, 283
PV888	290, 291
PV893	290, 291
PV894	290, 291
PV895	290, 291
PV909	274, 275
PV918	282, 283
PV941	282, 283
PV942	280, 281
PV944	274, 275
PV963	280, 281
PV968	280, 281
RT040R	432, 434
RT090R	432, 434
RT153R	432, 437
SR421R	352
SR554R	246
V1101312	202
V1101317	202
V1101331	202
V1101362	202
V1101375	202
V1101392	202
V1101469	203
V1101470	203
V1101475	203
V1101486	203
V1101487	203
V1101490	203
V1101492	203
V1101512	203
V1101514	203
V1101520	203
V1101521	203
V1101522	203
V1101527	203
V1103004	198
V1103006	198
V1103007	198
V1103010	198
V1103146	200
V1103149	200
V1103151	200
V1103153	200
V1103154	200
V1103155	200
V1103159	200
V1103160	200
V1103161	200
V1103171	201
V1103026	198
V1103027	198
V1103028	198
V1103029	198
V1103030	198
V1103033	198
V1103039	198
V1103051	199
V1103052	199
V1103053	199
V1103054	199
V1103055	199
V1103056	199
V1103057	199
V1103058	199
V1103061	199
V1103062	199
V1103063	199
V1103064	199
V1103068	199
V1103069	199
V1103070	199
V1103074	199
V1103076	199
V1103078	200
V1103086	200
V1103087	200
V1103088	200
V1103089	200
V1103097	200
V1103100	199
V1103101	199
V1103104	199
V1103108	199
V1103114	199
V1103115	199
V1103116	199
V1103129	200
V1103135	200
V1103136	200
V1103137	200
V1103138	200
V1103142	200
V1103144	200
V1103011	198
V1103012	198
V1103013	198
V1103015	198
V1103017	198
V1103018	198
V1103019	198
V1103020	198
V1103021	198
V1103025	198
V1103177	201
V1103178	201
V1103182	201
V1103183	201
V1103184	201
V1103186	201
V1103187	201
V1103189	201
V1103190	201
V1103191	201
V1103192	201
V1103194	201
V1103195	201
V1103197	201
V1103206	201
V1103207	201
V1103208	201
V1103216	201
V1103217	201
V1103221	201
V1103222	201
V1103250	200
V1103251	200
V1103252	200
XF830	315