

Instruments for Cardiac and Vascular Surgery



Keep In Touch

Medi Cab Instruments. | Gohad pur airport Road Near Jamia Masjid Sialkot
Pakistan 🇵🇰 | 51310 | Phone +92 312 079 8537 | Whatsapp +92 312 079 8537|
medicabins@gmail.com | www.medicabins.com

Medi Cab Instruments.



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Instruments for Cardiac and Vascular Surgery

OPERATE WITH GREATER PRECISION

At Aesculap, we understand your practice faces evolving challenges from a rapidly aging patient population and increasingly complex diseases. For that reason, we are committed to delivering innovative cardiothoracic technologies, designed and manufactured with the same high standard of quality we have maintained for over 150 years.

Our focus on solutions for minimally-invasive cardiothoracic surgery is driven by the desire to improve patient outcomes. In addition to our portfolio of cutting-edge technologies for beating heart coronary surgery, we offer a broad line of specialized instruments and retractors designed to meet the demanding needs of today's cardiovascular, vascular and thoracic surgeons. In this catalog, you will find a select range of instruments that are commonly used in cardiac and vascular surgery.

As the world's largest instrument manufacturer, we are proud of our strict quality standards and meticulous workmanship that allow you to address challenging cardiac and vascular procedures with greater precision.



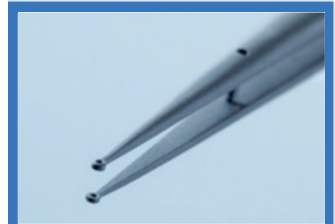
The working surfaces of the jaws of all Dia Dust™ instruments are coated with a fine layer of diamond dust, which results in a hard surface with high wear resistance. Moreover, the structure of the Dia Dust coating provides a reliable grip for fine needles and sutures as well as tissue. Suitable for 4/0 to 10/0 sutures.



Aesculap DUROGRIP™ needle holders have jaws with high quality tungsten carbide inserts. The smooth jaw surface as well as the 0.2 mm micro serration guarantee a safe hold on the needle. We recommend carbide inserts with a smooth jaw surface for micro suture material 9/0 – 11/0 and inserts with a 0.2 mm pitch serration for suture material 6/0 – 10/0.



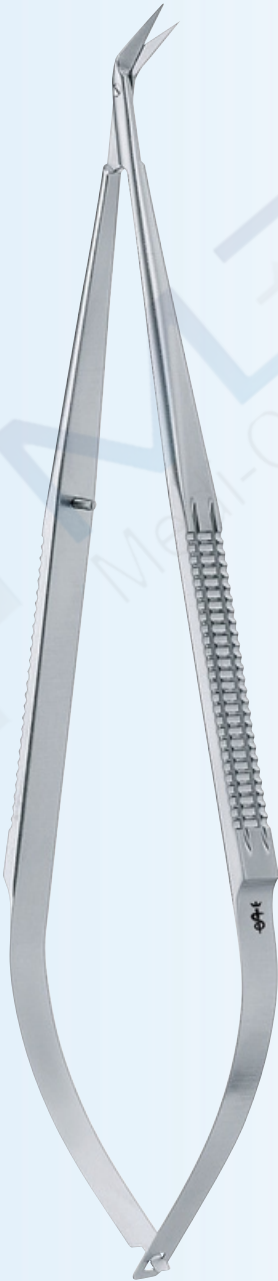
The non-reflective NOIR™ coating is six times as hard as normal instrument steel, providing increased resistance against both wear and corrosion.



























TITANIUM instruments provide incomparable operating sensitivity through light-weight handling. With a non-reflective finish and ergonomic design, the titanium instrument line offers you unsurpassed instrument control, comfort and performance.

Instruments for Cardiac and Vascular Surgery

Micro Scissors with Flat Handle

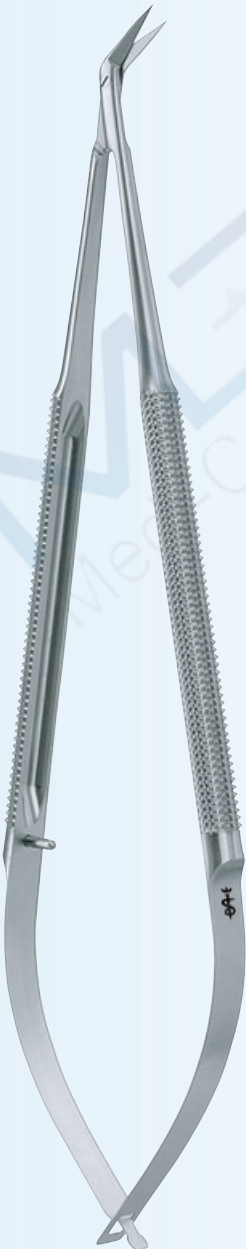


165 mm, 6 3/4"
























	25°	45°	60°	90°	125°	Straight	Curved on Flat
Fine Blade 1/1	 FM470R	 FM471R	 FM472R	 FM473R	 FM474R		
Fine Blade, with One Probe Pointed Blade 1/1	 FM451R	 FM452R	 FM453R	 FM454R	 FM455R		
Delicate Blade 1/1	 FM437R	 FM438R	 FM439R	 FM440R	 FM441R	 FM442R	 FM436R
Ultra Delicate Blade 1/1	 FM431R	 FM432R	 FM433R	 FM434R	 FM435R	 FM444R	 FM430R

Instruments for Cardiac and Vascular Surgery

Micro Scissors with Round Handle



165 mm, 6 1/2"


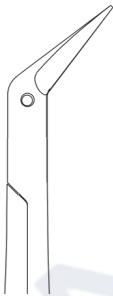
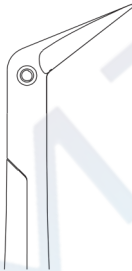
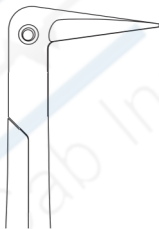
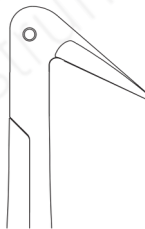


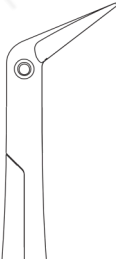
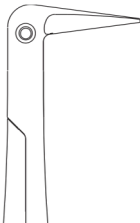
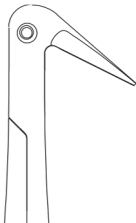
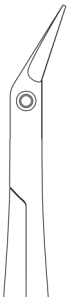
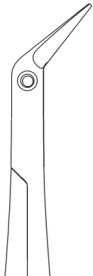
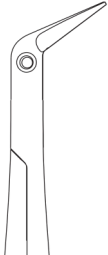
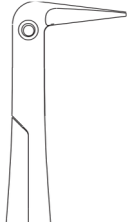

	25°	45°	60°	90°	125°	Straight	Curved on Flat
Fine Blade 1/1	 FM476R	 FM477R	 FM478R	 FM479R	 FM480R		
Delicate Blade 1/1	 FM482R	 FM483R	 FM484R	 FM485R	 FM486R	 FM488R	 FM481R
Delicate Blade, with One Probe Pointed Blade 1/1	 FM489R	 FM490R	 FM491R	 FM492R	 FM493R		
Ultra Delicate Blade 1/1	 FM504R	 FM505R	 FM506R	 FM507R	 FM508R		 FM503R

Instruments for Cardiac and Vascular Surgery

Microvascular Scissors



180 mm, 7"

	25°	45°	60°	90°	125°
Standard Blade 1/1	 BC522R	 BC523R	 BC524R	 BC525R	 BC526R
Delicate Blade 1/1	 BC531R	 BC532R	 BC533R	 BC534R	 BC535R
Ultra Delicate Blade 1/1	 BC515R	 BC516R	 BC517R	 BC518R	 BC519R

Instruments for Cardiac and Vascular Surgery

Micro NOIR Supreme Scissors



Total Length: 7"
Very Fine Blade: 10 mm



FM610B

Straight



FM611B

Curved



FM612B

25°



FM613B

45°



FM614B

60°



FM615B

90°



FM616B

125°

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Forceps with Round Handle and Counter Balance

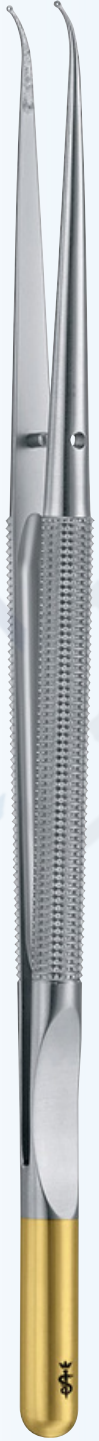
Jaw	Ring Diameter: 1 mm, Straight	Ring Diameter: 1 mm, Curved	Ring Diameter: 2 mm, Straight	Platform Tips, Straight	Platform Tips, Curved	1 mm, DeBakey Tip
Total Length (in.) 1 1/1						
150 mm 6"	FM570R	FM571R		FM578R	FM581R	
185 mm 7 1/4"	FM572R	FM573R	FM579R	FM580R	FM583R	FM592R
210 mm 8 1/4"	FM574R	FM575R		FM599R	FM585R	FM600R
230 mm 9"	FM576R	FM577R				
250 mm 10"	FM596R	FM595R		FM594R	FM593R	



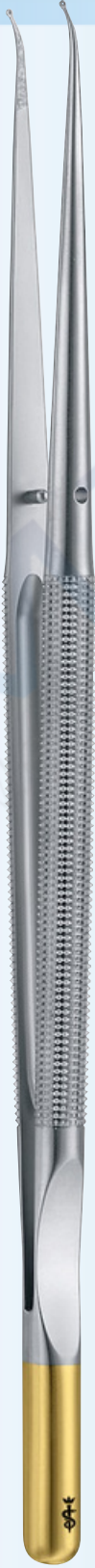
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



150 mm, 6"



185 mm, 7 1/4"



210 mm, 8 1/4"








230 mm, 9"



250 mm, 10"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Forceps with Round Handle without Counter Balance

Jaw	Ring Diameter: 1 mm, Straight	Ring Diameter: 1 mm, Curved	Ring Diameter: 1 mm with Platform Tip	Platform Tip, Straight	1 mm, DeBakey Tip
Total Length (in.) 1 1/16					
185 mm 7 3/4"	FM597R	FM587R	FM582R	FM586R	FM590R
210 mm 8 3/4"	FM598R	FM589R	FM584R	FM588R	FM591R



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.

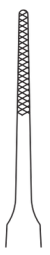
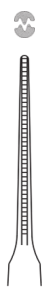





185 mm, 7 1/4"

210 mm, 8 1/4"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Forceps with Flat Handle

Jaw	1 mm, Cross Serrated	1 mm, DeBakey Tip	Ring Diameter: 1 mm, Straight	Ring Diameter: 1 mm, Curved	1 mm, Straight
Total Length (in.) 1 1/1					
180 mm 7"	BD190R	BD191R	BD192R	BD193R	BD194R
200 mm 8"		BD195R			BD196R
250 mm 10"	BD197R				

BD198R	Cushing DUROGRIP™ Forceps STR. 210 mm, 8 1/4"
BD200R	Thumb Dia Dust Forceps 1 mm STR. 180 mm, 7"
BD201R	Thumb Dia Dust Forceps 1 mm STR. 210 mm, 8 1/4"

Also Offered
*No Images Available



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



180 mm, 7"



200 mm, 8"



250 mm, 10"

Instruments for Cardiac and Vascular Surgery

Micro NOIR Supreme Forceps

Jaw type: Ring Diameter: 1 mm, Straight

Jaw type: Ring Diameter: 1 mm, Straight, with Weight



Item No.	FM627B	FM628B
Total Length	185 mm 7¼"	210 mm 8¼"

Item No.	FM637B	FM638B	FM639B
Total Length	185 mm 7¼"	210 mm 8¼"	230 mm 9"

Jaw type: Platform Tip, Straight

Jaw type: 1 mm, DeBakey Tip



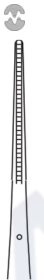
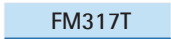
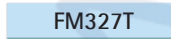
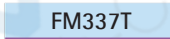
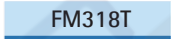
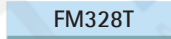
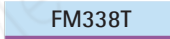
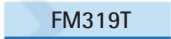
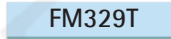
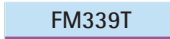


Item No.	FM617B	FM618B
Total Length	185 mm 7¼"	210 mm 8¼"

Item No.	FM647B	FM648B
Total Length	185 mm 7¼"	210 mm 8¼"

Instruments for Cardiac and Vascular Surgery

Micro TITANIUM Forceps

Jaw	Ring Diameter: 1 mm, Straight	Platform Tip, Straight	1 mm, DeBakey Tip
Total Length 14			
185 mm 7 1/4"	 FM317T	 FM327T	 FM337T
210 mm 8 1/4"	 FM318T	 FM328T	 FM338T
230 mm 9"	 FM319T	 FM329T	 FM339T

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



Blue: Micro Forceps with Ring Jaw



Green: Micro Forceps with Plateau Jaw



Purple: Micro Forceps with DeBakey Jaw



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, suture and soft tissue safely and securely. The needle quickly aligns itself in an ideal position within the rough surface. This results in a perfect grip that helps prevent any needle slippage.



FM317T
185 mm
7 ¼"



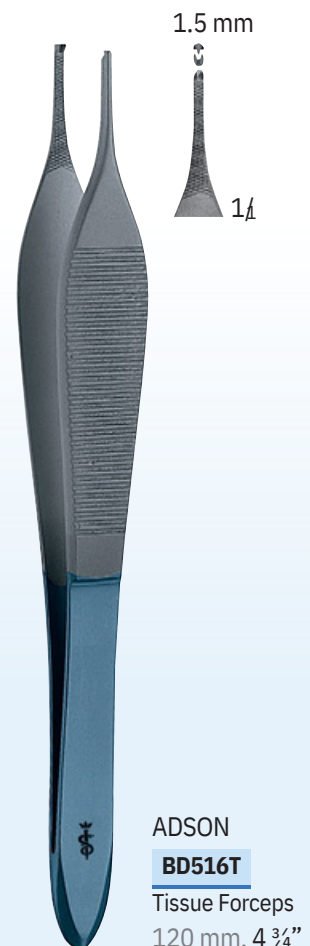
FM318T
210 mm
8 ¼"



FM319T
230 mm
9"

Instruments for Cardiac and Vascular Surgery

TITANIUM Forceps





GERALD
BD227T
Dissecting Forceps
170 mm, 6 3/4"



GERALD
BD657T
Tissue Forceps
170 mm, 6 3/4"



RESANO
BD715T
Grasping Forceps
230 mm, 9"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders with Round Handle

With Catch



Total Length (in.)

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"



1/4

Suture Size

7/0 and Smaller

[FM520R](#)

[FM521R](#)

[FM563R](#)

[FM565R](#)

[FM567R](#)



1/4

5/0 and Smaller

[FM522R](#)

[FM523R](#)

[FM564R](#)

[FM566R](#)

[FM568R](#)



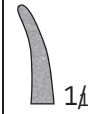
1/4

4/0 and Smaller

[FM218R](#)

[FM228R](#)

[FM230R](#)



1/4

4/0 and Smaller

[FM221R](#)

[FM223R](#)

Without Catch



Total Length (in.)

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"

7/0 and Smaller

[FM524R](#)

[FM525R](#)

[FM526R](#)

[FM527R](#)

[FM532R](#)

5/0 and Smaller

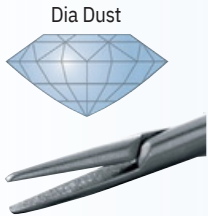
[FM528R](#)

[FM529R](#)

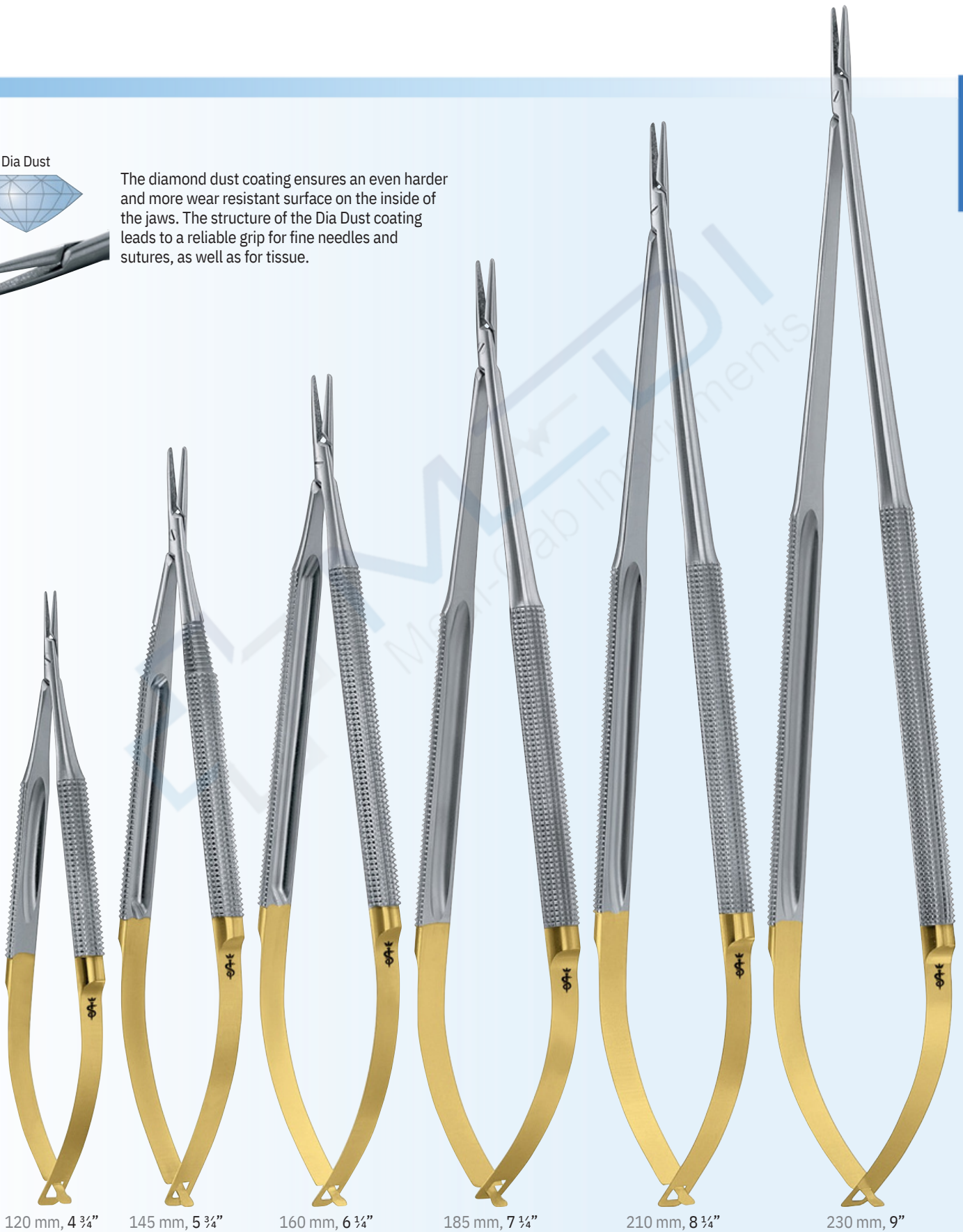
[FM530R](#)

[FM531R](#)

[FM533R](#)



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



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"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders with Round Handle

With Catch,
Heavy Style



Total Length (in.)

190 mm
7 1/2"

230 mm
9"

250 mm
10"



1/4

Suture Size

2/0 and Smaller

[FM538R](#)

[FM539R](#)

[FM534R](#)

Without Catch,
Heavy Style



Total Length
(in.)

190 mm
7 1/2"

230 mm
9"

250 mm
10"



1/4

Suture Size

2/0 and Smaller

[FM535R](#)

[FM536R](#)

[FM537R](#)

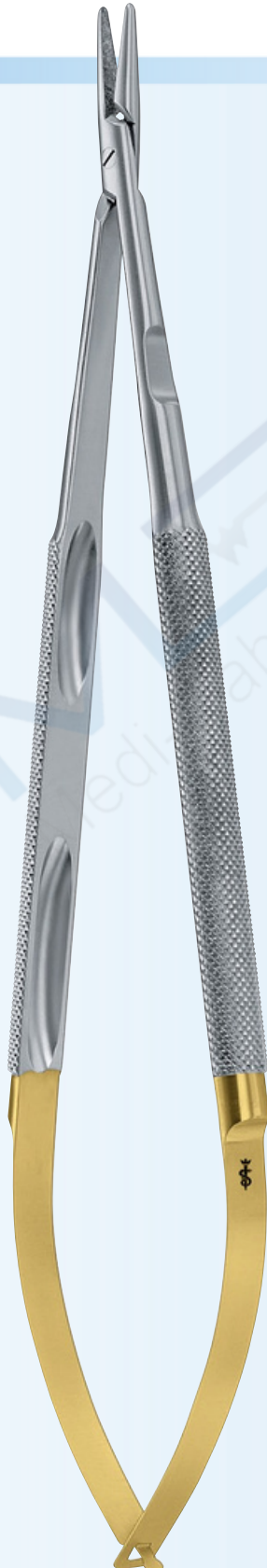
Dia Dust



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



190 mm, 7 1/2"



230 mm, 9"



250 mm, 10"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders with Flat Handle

With Catch



Total Length (in.)

145 mm
5 3/4"

170 mm
6 3/4"

185 mm
7 1/4"

210 mm
8 1/4"

230 mm
9"



1/4"

Suture Size

7/0 and Smaller

FM540R



1/4"

5/0 and Smaller

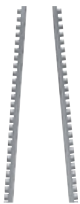
FM541R

FM542R

FM543R

FM544R

Without Catch



Total Length (in.)

145 mm
5 3/4"

170 mm
6 3/4"

185 mm
7 1/4"

210 mm
8 1/4"

230 mm
9"

7/0 and Smaller

FM545R

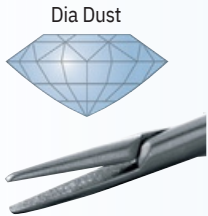
5/0 and Smaller

FM546R

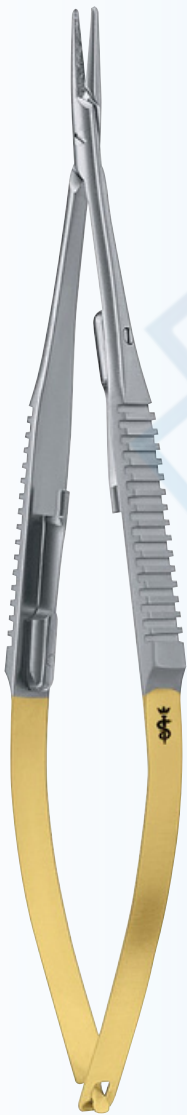
FM547R

FM548R

FM549R



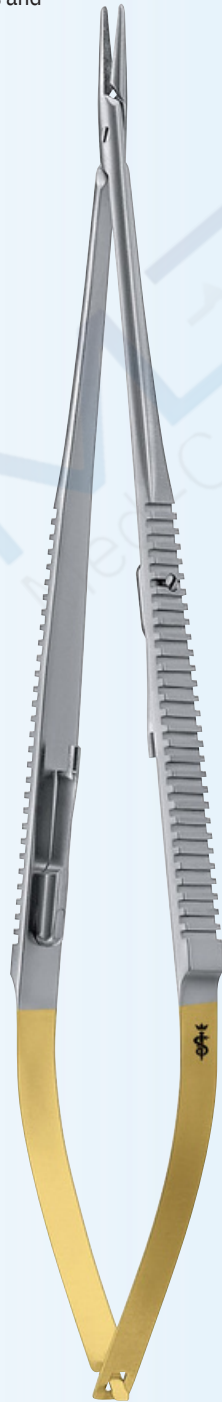
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



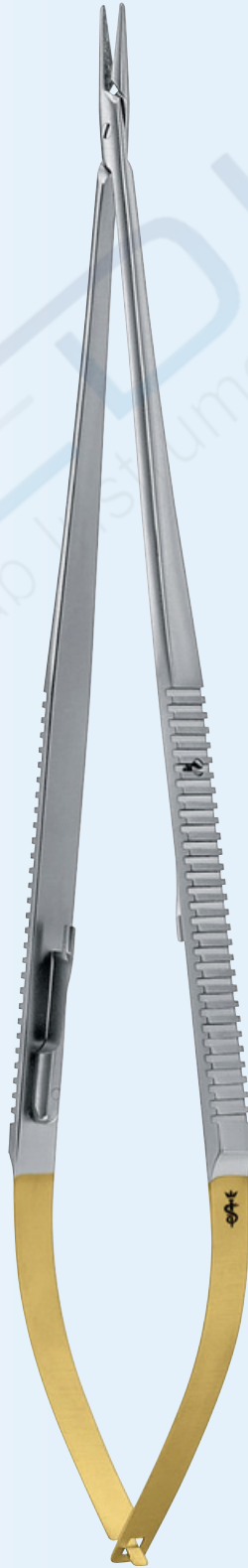
145 mm, 5 ¾"



170 mm, 6 ¾"



185 mm, 7 ¼"



210 mm, 8 ¼"



230 mm, 9"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders with Flat Knurled Handle

With Catch



Total Length

185 mm
7 1/4"

210 mm
8 1/4"

230 mm
9"



1/4

Suture Size

5/0 and Smaller

[FM550R](#)

[FM551R](#)

[FM552R](#)

Without Catch



Total Length

185 mm
7 1/4"

210 mm
8 1/4"

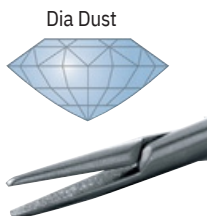
230 mm
9"

5/0 and Smaller

[FM553R](#)

[FM554R](#)

[FM555R](#)



Dia Dust

The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



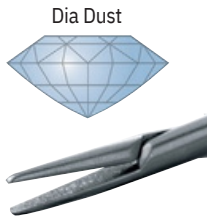
185 mm, 7 ¼"

210 mm, 8 ¼"

230 mm, 9"

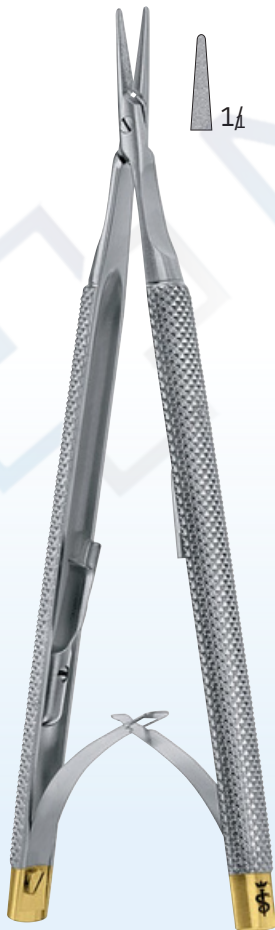
Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders



Dia Dust

The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



GLASSER

FM560R

Suture Size: 5/0 and Smaller
125 mm, 5"



GLASSER

FM561R

Suture Size: 5/0 and Smaller
180 mm, 7"

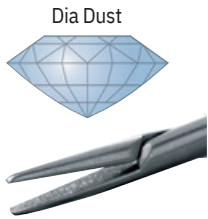


FM236R
With Catch
Suture Size: 5/0 and Smaller
210 mm, 8 1/4"

FM276R
Without Catch
Suture Size: 5/0 and Smaller
210 mm, 8 1/4"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders - RYDER



The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



BM301R	BM325R	BM302R	BM327R	BM328R
250 mm	160 mm	180 mm	220 mm	
5 ½"	6 ¼"	7"	8 ¾"	



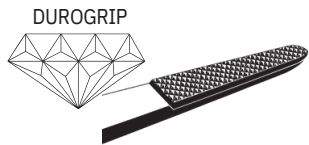
RYDER

BM301R-BM328R



Instruments for Cardiac and Vascular Surgery

DUROGRIP™ Micro Needle Holders with Round and Flat Handles



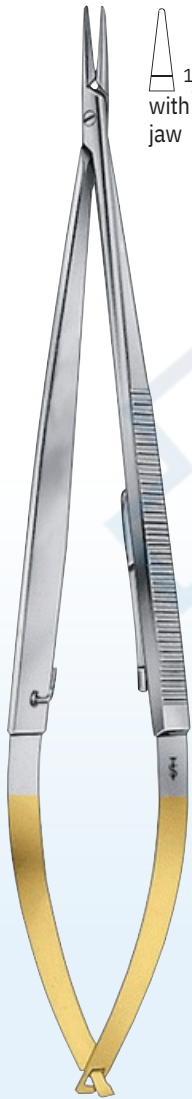
Aesculap needle holders have jaws with tungsten carbide inserts with a choice of structure depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material 9/0 – 11/0 and inserts with a 0.2 mm pitch serration for suture material 6/0 – 10/0.



FM388R
With Catch
180 mm, 7"



FM390R
With Catch
200 mm, 8"



1/1
with smooth
jaw

CASTROVIEJO
BM001R
145 mm, 5 3/4"



1/1
0.2

CASTROVIEJO
BM002R
145 mm, 5 3/4"



1/1
0.2

CASTROVIEJO
BM004R
180 mm, 7"

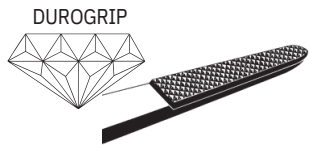


1/1
0.2

CASTROVIEJO
BM005R
215 mm, 8 1/2"

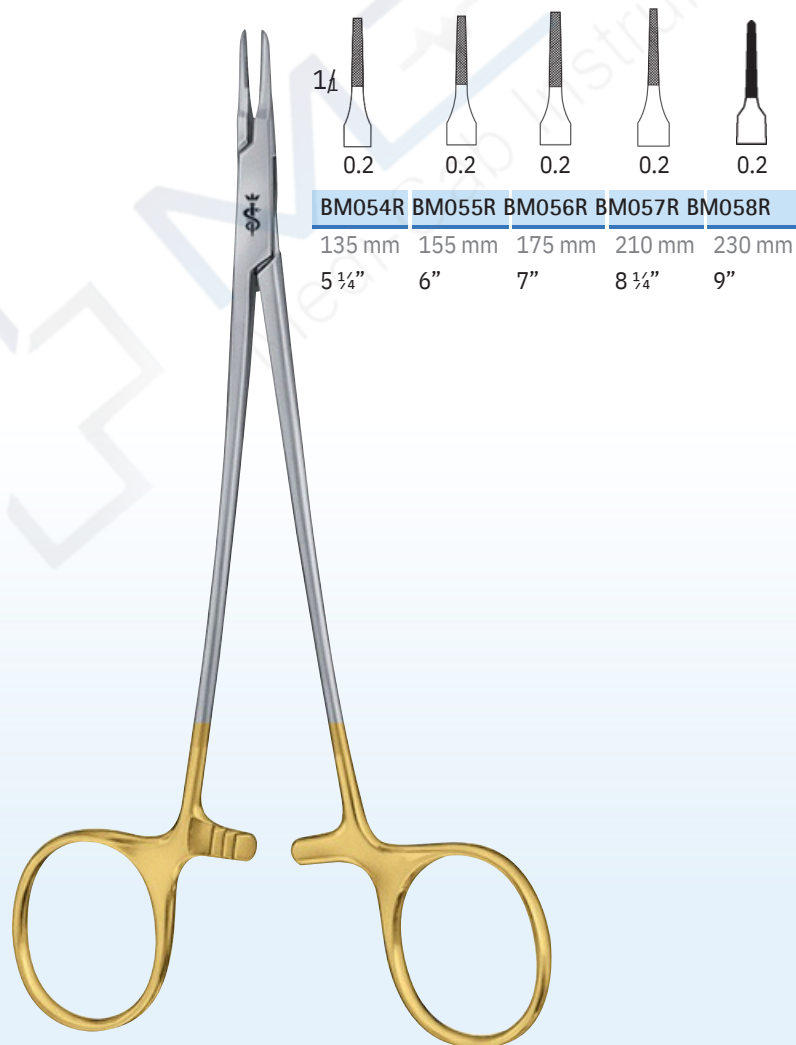
Instruments for Cardiac and Vascular Surgery

DUROGRIP™ Micro Needle Holders - RYDER



Aesculap needle holders have jaws with tungsten carbide inserts with a choice of structure depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material 9/0 – 11/0 and inserts with a 0.2 mm pitch serration for suture material 6/0 – 10/0.

»grazil«



RYDER

BM054R-BM058R

Very Delicate

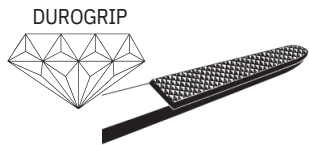


1/4				
	0.4	0.4	0.4	0.4
	BM044R	BM045R	BM046R	BM047R
	135 mm	175 mm	195 mm	265 mm
	5 1/4"	7"	7 3/4"	10 1/2"

RYDER
BM044R-BM047R

Instruments for Cardiac and Vascular Surgery

DUROGRIP™ Micro Needle Holders



Aesculap needle holders have jaws with tungsten carbide inserts with a choice of structure depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material 9/0 – 11/0 and inserts with a 0.2 mm pitch serration for suture material 6/0 – 10/0.



	BM032R	BM035R	BM036R	BM037R	BM038R
1/16"	0.4	0.4	0.4	0.4	0.4
	150 mm	180 mm	230 mm	250 mm	305 mm
	6"	7"	9"	10"	12"

DE BAKEY
BM032R-BM038R

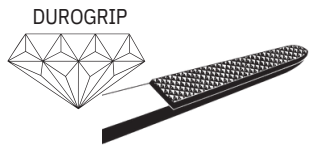


DE BAKEY
BM033R-BM064R
 Very Delicate

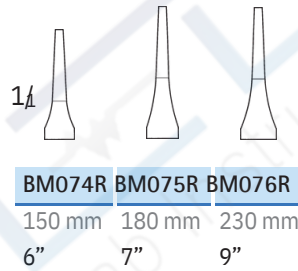
BM025R-BM027R
 Very Delicate

Instruments for Cardiac and Vascular Surgery

DUROGRIP™ Micro Needle Holders



Aesculap needle holders have jaws with tungsten carbide inserts with a choice of structure depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material 9/0 – 11/0 and inserts with a 0.2 mm pitch serration for suture material 6/0 – 10/0.



RYDER

BM074R-BM076R

Smooth Jaws



Instruments for Cardiac and Vascular Surgery

STANDARD Micro Needle Holders with Round Handle



BARRAQUER
BM560R-BM562R
Without Catch



BARRAQUER
FD230R-FD231R
Without Catch
120 mm, 4 3/4"



BARRAQUER
FD232R-FD233R
With Catch
120 mm, 4 3/4"



REILL
FD240R-FD241R
Without Catch
150 mm, 6"



FD242R

FD243R

FD244R

FD245R

FD246R

FD247R

FM392R

FD242R-FD243R
With Catch
150 mm, 6"

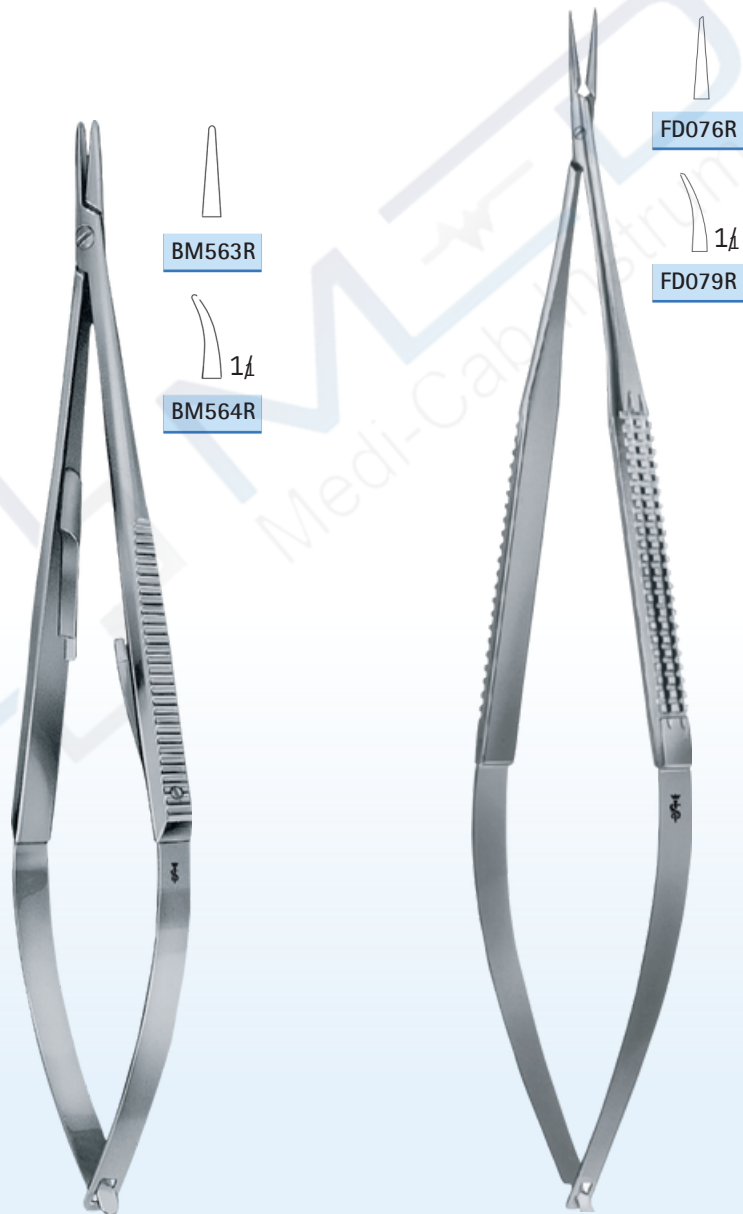
FD244R-FD245R
Without Catch

FD246R-FD247R
With Catch
185 mm, 7 1/4"

FM392R
With Catch
228 mm, 9"

Instruments for Cardiac and Vascular Surgery

STANDARD Micro Needle Holders with Flat Handle



CASTROVIEJO

BM563R-BM564R

With Catch

145 mm, 5 3/4"

FD076R-FD079R

Without Catch

160 mm, 6 1/4"



FD080R

FD081R

FD080R-FD081R
Without Catch
185 mm, 7 1/4"



FD045R
Without Catch

FD046R
With Catch

JACOBSON
FD045R-FD046R
185 mm, 7 3/4"



FD048R

YASARGIL
FD048R
With Catch
200 mm, 8"

Instruments for Cardiac and Vascular Surgery

Micro NOIR™ Supreme Needle Holders

Suture Size: 7/0 and Smaller



Item No.	FM640B	FM642B	FM644B
Total Length	185 mm 7¼"	210 mm 8¼"	230 mm 9"

Suture Size: 5/0 and Smaller



Item No.	FM650B	FM652B	FM654B
Total Length	185 mm 7¼"	210 mm 8¼"	230 mm 9"

Instruments for Cardiac and Vascular Surgery

TITANIUM Dia Dust™ Micro Needle Holders

With Ratchet



Total Length

185 mm
7 ¼"

210 mm
8 ¼"

230 mm
9"



1/4



1/4

Suture Size

7/0 and Smaller

5/0 and Smaller

FM258T

FM238T

FM259T

FM239T

FM260T

FM240T

Without Ratchet



Total Length

185 mm
7 ¼"

210 mm
8 ¼"

230 mm
9"

7/0 and Smaller

5/0 and Smaller

FM252T

FM232T

FM253T

FM233T

FM254T

FM234T

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



Blue: For Suture Size 5/0 and Smaller



Green: For Suture Size 7/0 and Smaller



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, suture and soft tissue safely and securely. The needle quickly aligns itself in an ideal position within the rough surface. This results in a perfect grip that helps prevent any needle slippage.








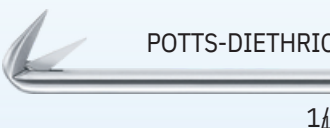
1/1
FM232T
185 mm, 7 1/4"

1/1
FM233T
210 mm, 8 1/4"

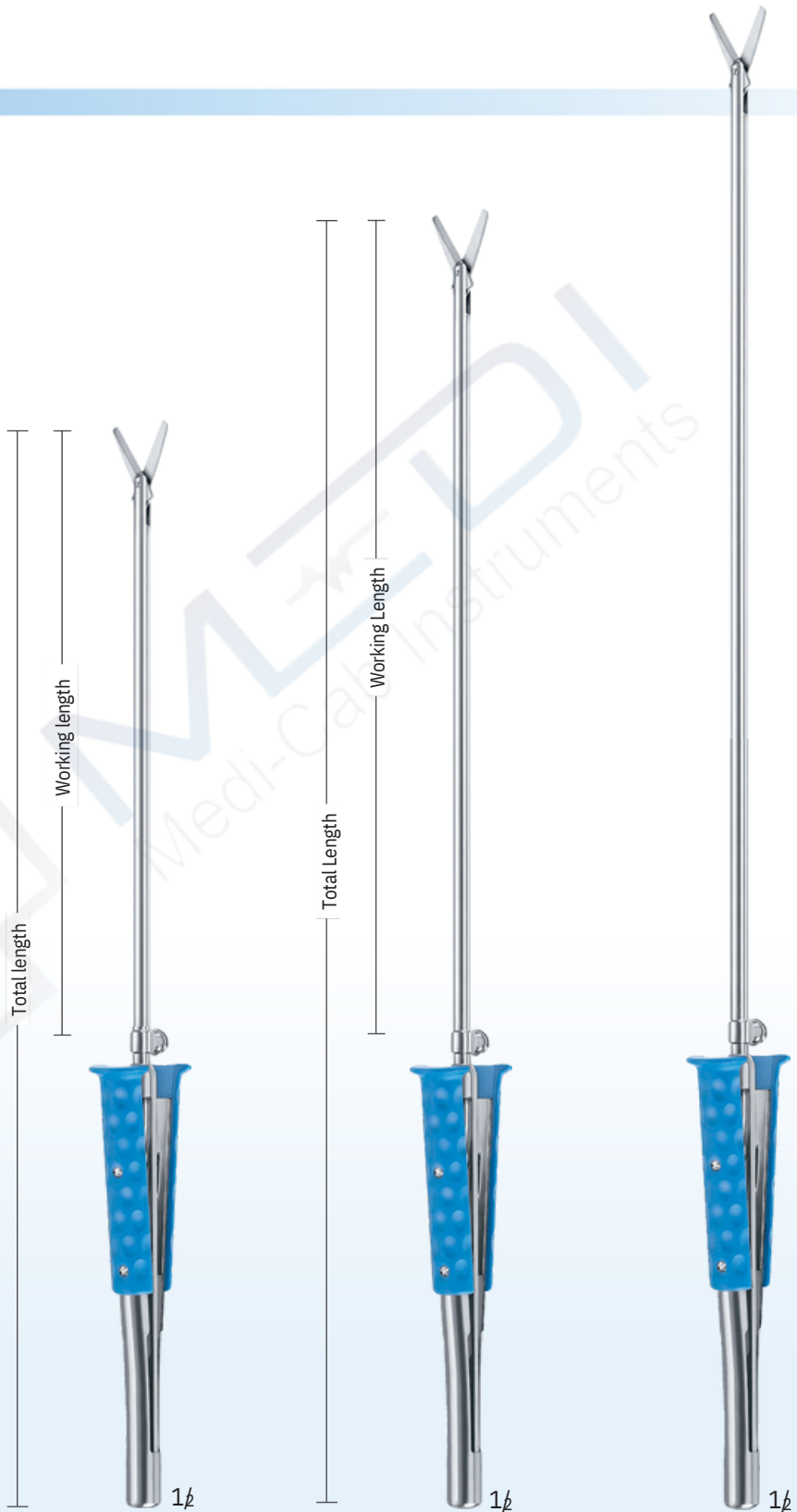
1/1
FM234T
230 mm, 9"

Instruments for Cardiac and Vascular Surgery

Valve XS Scissors for Minimally Invasive Valve Surgery

	Item No.	Version	Jaw Type	Working Length	Total Length
 1/1	FC470R	Short	15° Curved, Double Action	7" (175 mm)	12 ³ / ₈ " (315 mm)
	FC265R	Standard		9 ¹ / ₄ " (235 mm)	14 ¹ / ₂ " (370 mm)
	FC370R	Long		11 ¹ / ₄ " (285 mm)	16 ¹ / ₂ " (420 mm)
 1/1	FC471R	Short	30° Curved, Double Action	7" (175 mm)	12 ³ / ₈ " (315 mm)
	FC266R	Standard		9 ¹ / ₄ " (235 mm)	14 ¹ / ₂ " (370 mm)
	FC371R	Long		11 ¹ / ₄ " (285 mm)	16 ¹ / ₂ " (420 mm)
 1/1	FC472R	Short	30° Curved, Single Action	6 ¹ / ₂ " (165 mm)	11 ³ / ₄ " (300 mm)
	FC267R	Standard		8 ³ / ₄ " (220 mm)	13 ³ / ₄ " (350 mm)
	FC372R	Long		10 ¹ / ₂ " (270 mm)	15 ³ / ₄ " (400 mm)
 1/1	FC473R	Short	70° Curved, Double Action	7" (175 mm)	12 ¹ / ₄ " (310 mm)
	FC268R	Standard		9" (230 mm)	14 ¹ / ₂ " (370 mm)
	FC373R	Long		11" (280 mm)	16 ¹ / ₂ " (420 mm)
 POTTS-DIETHRICH 1/1	FC474R	Short	45° Angled, Single Action	6 ¹ / ₈ " (155 mm)	11 ⁵ / ₈ " (295 mm)
	FC269R	Standard		8 ³ / ₄ " (210 mm)	14" (355 mm)
	FC374R	Long		10 ¹ / ₄ " (260 mm)	16" (405 mm)
 POTTS-DIETHRICH 1/1	FC475R	Short	125° Angled, Single Action	6" (150 mm)	11 ¹ / ₄ " (285 mm)
	FC271R	Standard		8" (205 mm)	13 ¹ / ₂ " (345 mm)
	FC375R	Long		10" (255 mm)	15 ¹ / ₂ " (395 mm)

Blade Length	Shaft Diameter
15 mm	5 mm
15 mm	5 mm
10 mm	5 mm
15 mm	5 mm
13 mm	3.5 mm
8 mm	3.5 mm



FC470R - FC475R
Short Version

FC265R - FC271R
Standard Version

FC370R - FC375R
Long Version

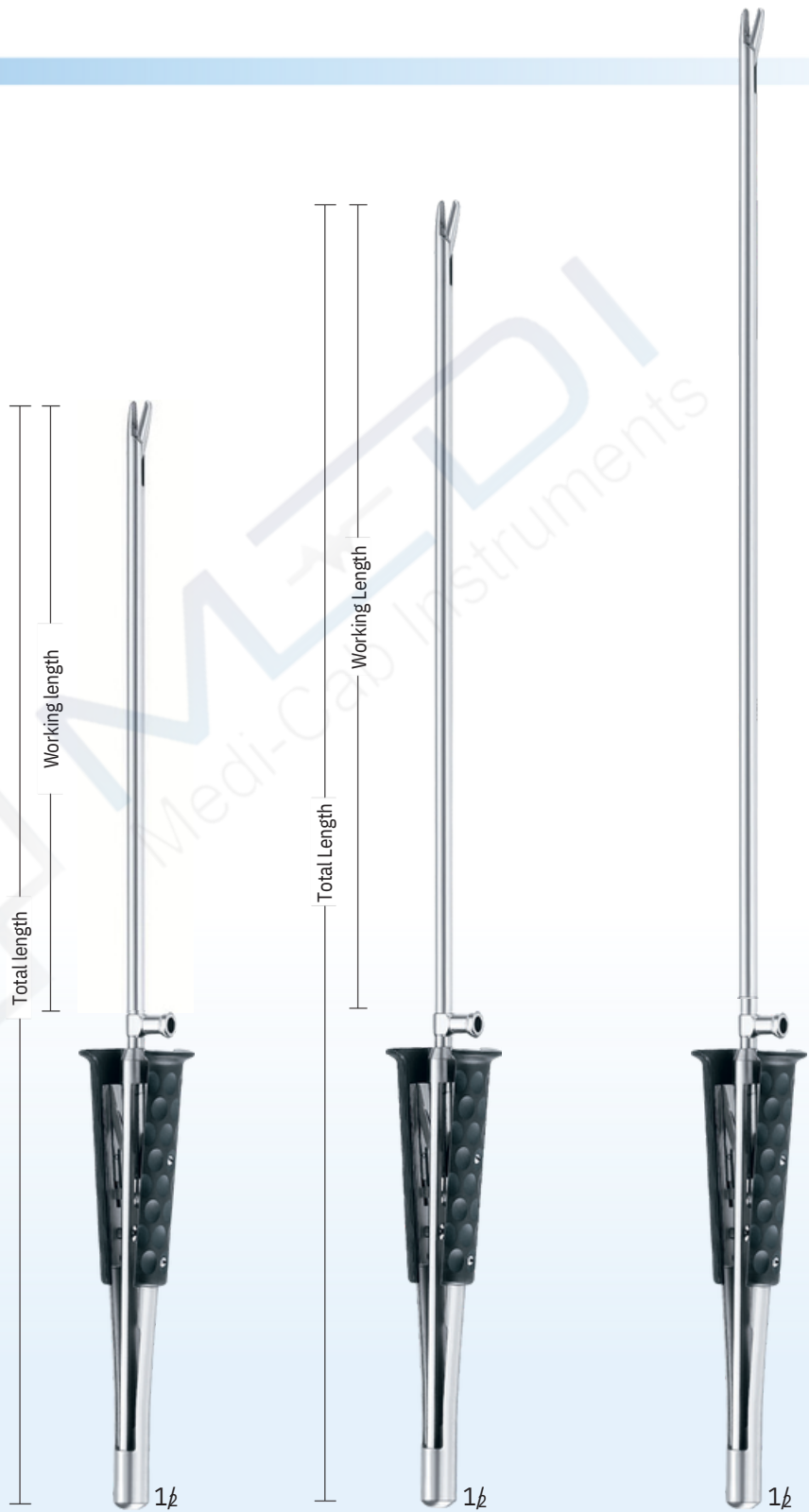
Instruments for Cardiac and Vascular Surgery

Valve XS Needleholders for Minimally Invasive Valve Surgery

With Catch and Tungsten Carbide Inserts

	Item No.	Version	Jaw Type	Recommended Suture Size	Working Length	Total Length
 1/4"	FC478R	Short			6 ³ / ₄ " (170 mm)	12" (305 mm)
	FC275R	Standard	Straight	2/0*	9" (225 mm)	14 ³ / ₈ " (365 mm)
	FC378R	Long			10 ³ / ₄ " (275 mm)	16 ³ / ₈ " (415 mm)
 1/4"	FC479R	Short			6 ³ / ₄ " (170 mm)	12" (305 mm)
	FC276R	Standard	Curved	2/0*	9" (225 mm)	14 ³ / ₈ " (365 mm)
	FC379R	Long			10 ³ / ₄ " (275 mm)	16 ³ / ₈ " (415 mm)
 1/4"	FC480R	Short			6 ³ / ₄ " (170 mm)	12" (305 mm)
	FC277R	Standard	Curved	2/0*	9" (225 mm)	14 ³ / ₈ " (365 mm)
	FC380R	Long			10 ³ / ₄ " (275 mm)	16 ³ / ₈ " (415 mm)
 1/4"	FC481R	Short			6 ³ / ₄ " (170 mm)	12" (305 mm)
	FC278R	Standard	Straight	5/0 and Smaller	9" (225 mm)	14 ³ / ₈ " (365 mm)
	FC381R	Long			10 ³ / ₄ " (275 mm)	16 ³ / ₈ " (415 mm)
 1/4"	FC482R	Short			6 ¹ / ₄ " (160 mm)	11 ³ / ₄ " (300 mm)
	FC279R	Standard	Curved	5/0 and Smaller	8 ³ / ₄ " (220 mm)	14 ¹ / ₄ " (360 mm)
	FC382R	Long			10 ³ / ₅ " (270 mm)	16 ¹ / ₈ " (410 mm)

Jaw Size	Shaft Diameter
3.0 x 8.0 mm	5 mm
3.0 x 8.0 mm	5 mm
2.0 x 8.0 mm	5 mm
1.5 x 7.0 mm	5 mm
1.5 x 6.0 mm	2.7 mm



FC478R - FC482R
Short Version

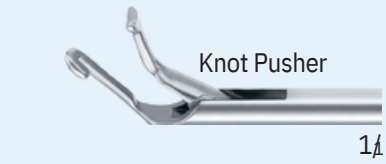
FC275R - FC279R
Standard Version

FC378R - FC382R
Long Version

Instruments for Cardiac and Vascular Surgery

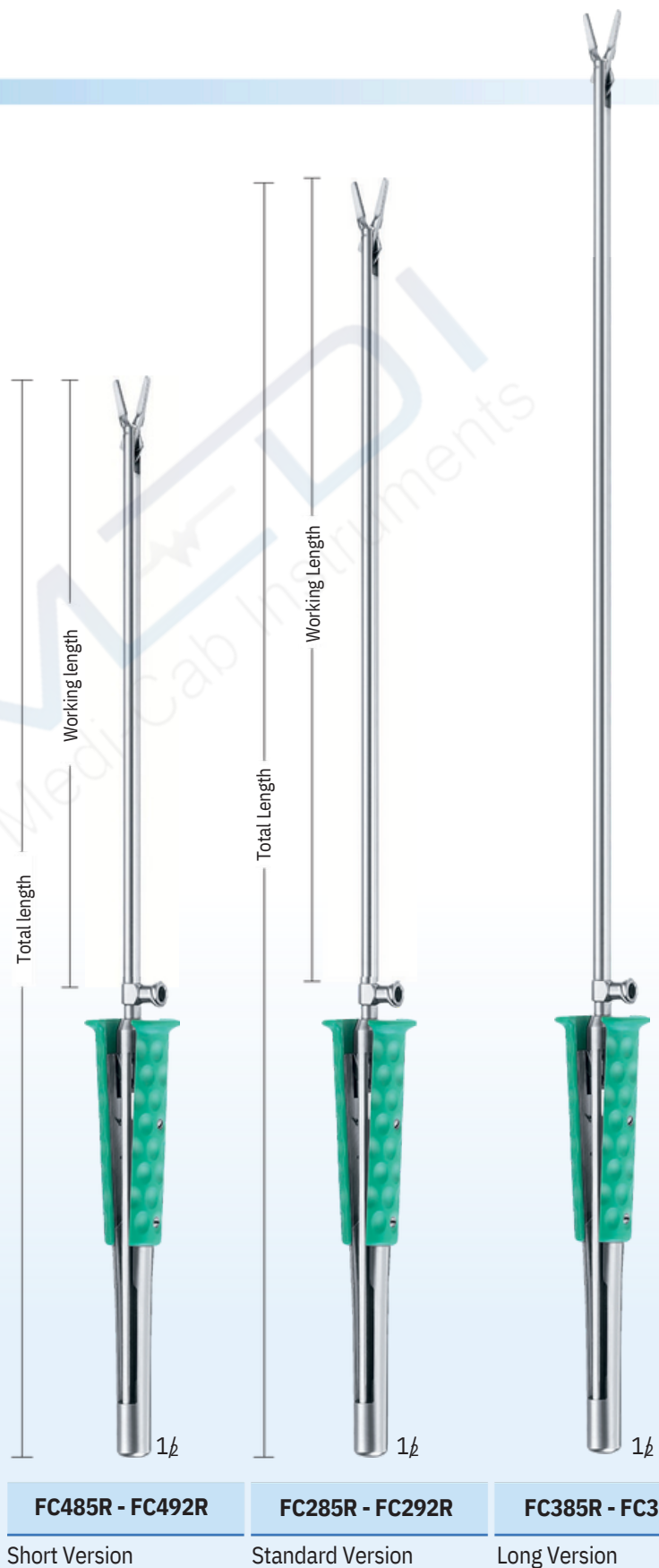
Valve XS Forceps for Minimally Invasive Valve Surgery

DeBakey Toothing



Item No.	Version	Jaw Type, Jaw Size	Working Length
FC485R	Short	Straight, 1.5 x 11.0 mm Jaw Serration	7" (175 mm)
FC285R	Standard		9" (230 mm)
FC385R	Long		11" (280 mm)
FC486R	Short	45° Upwards Angled, 1.5 x 15.0 mm Jaw Serration	⁶ / ₄ " (170 mm)
FC286R	Standard		9" (230 mm)
FC386R	Long		11" (280 mm)
FC487R	Short	45° Angled to Side, 1.5 x 15.0 mm Jaw Serration	⁶ / ₄ " (170 mm)
FC287R	Standard		9" (230 mm)
FC387R	Long		11" (280 mm)
FC488R	Short	Straight, 3.0 x 16.0 mm Jaw Serration	7" (175 mm)
FC288R	Standard		9" (230 mm)
FC388R	Long		11" (280 mm)
FC489R	Short	Straight, 2.8 x 11.0 mm Jaw Serration	7" (175 mm)
FC289R	Standard		9" (230 mm)
FC389R	Long		11" (280 mm)
FC490R	Short	Straight, 1.5 x 11.0 mm Jaw Serration	⁶ / ₄ " (170 mm)
FC290R	Standard		9" (230 mm)
FC390R	Long		11" (280 mm)
FC491R	Short	Straight, 8.0 mm Jaw	⁶ / ₄ " (170 mm)
FC291R	Standard		9" (230 mm)
FC391R	Long		11" (280 mm)
FC492R	Short	45° Angled	7" (175 mm)
FC292R	Standard		9" (230 mm)
FC392R	Long		11" (280 mm)

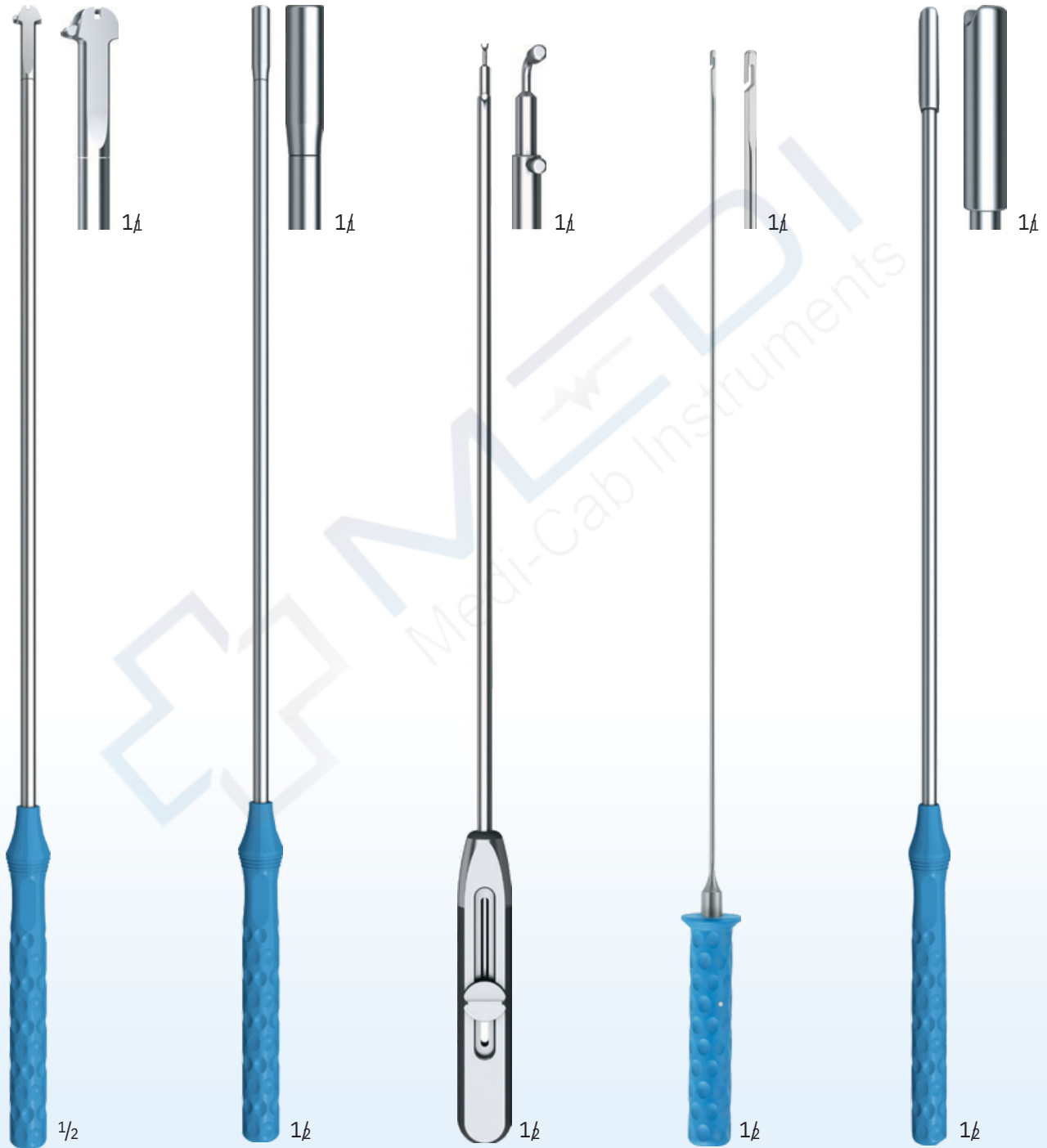
Total Length	Shaft Diameter	Miscellaneous
12 ¹ / ₄ " (310 mm) 14 ³ / ₈ " (365 mm) 16 ³ / ₈ " (415 mm)	5 mm	Double Action
12 ¹ / ₄ " (310 mm) 14 ³ / ₈ " (365 mm) 16 ³ / ₈ " (415 mm)	5 mm	Single Action
12 ¹ / ₄ " (310 mm) 14 ³ / ₈ " (365 mm) 16 ³ / ₈ " (415 mm)	5 mm	Single Action
12 ¹ / ₄ " (310 mm) 14 ¹ / ₂ " (370 mm) 16 ¹ / ₂ " (420 mm)	5 mm	Single Action
12 ¹ / ₄ " (310 mm) 14 ³ / ₈ " (365 mm) 16 ³ / ₈ " (415 mm)	5 mm	Double Action
12 ¹ / ₄ " (310 mm) 14 ³ / ₈ " (365 mm) 16 ³ / ₈ " (415 mm)	3 mm 3.5 mm 3.5 mm	Double Action Malleable Shaft
12" (305 mm) 14 ³ / ₈ " (365 mm) 16 ³ / ₈ " (415 mm)	5 mm	Single Action with Tungsten Carbide Inserts
12 ¹ / ₄ " (310 mm) 14 ¹ / ₂ " (370 mm) 16 ¹ / ₂ " (420 mm)	5 mm	Single Action



FC485R - FC492R	FC285R - FC292R	FC385R - FC392R
Short Version	Standard Version	Long Version

Instruments for Cardiac and Vascular Surgery

Valve XS Miscellaneous Instruments for Minimally Invasive Valve Surgery



FC355R

Knot Pusher

Total length $14\frac{1}{2}$ " (370 mm)

Working length $10\frac{3}{4}$ " (260 mm)

FC356R

Magnetic Needle Finder

Total length $14\frac{1}{2}$ " (370 mm)

Working length $10\frac{3}{4}$ " (260 mm)

FC357R

Tendinous Cords Ruler

Total length 14" (355 mm)

Working length 10" (250 mm)

Measuring range 5-40 mm

FC358R

Suture Catcher

Total length 14" (355 mm)

Working length $10\frac{1}{2}$ " (260 mm)

FC359R

Valve Pusher

Total length $14\frac{1}{2}$ " (370 mm)

Working length $10\frac{3}{4}$ " (260 mm)

The diagram shows three models of nerve hooks: FC350R, FC351R, and FC352R. Each model is shown with its working end and a 1/2 inch scale bar. The FC350R has a 4.5 mm probe-ended tip, FC351R has a 5 mm tip, and FC352R has a 9 mm tip. All models have a working length of 10 1/4 inches (260 mm) and a total length of 13 3/4 inches (350 mm). A larger diagram on the right shows the full instrument with a blue textured handle and a 1/2 inch scale bar, with labels for 'Working End', 'Working Length', and 'Total Length'.

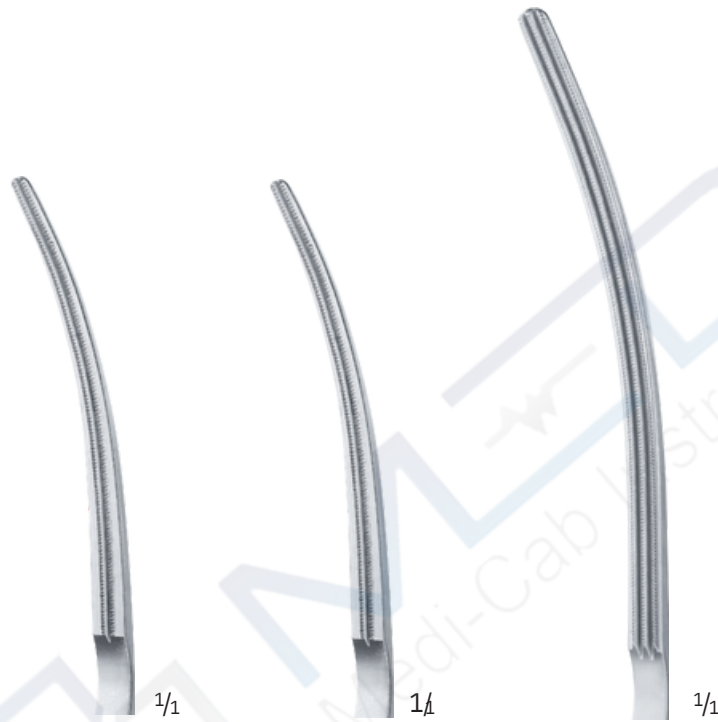
	FC350R	FC351R	FC352R
Working End	4.5 mm Probe Ended	5 mm	9 mm
Working Length	10 1/4" (260 mm)	10 1/4" (260 mm)	10 1/4" (260 mm)
Total Length	13 3/4" (350 mm)	13 3/4" (350 mm)	13 3/4" (350 mm)

FC350R - FC352R
Nerve Hooks

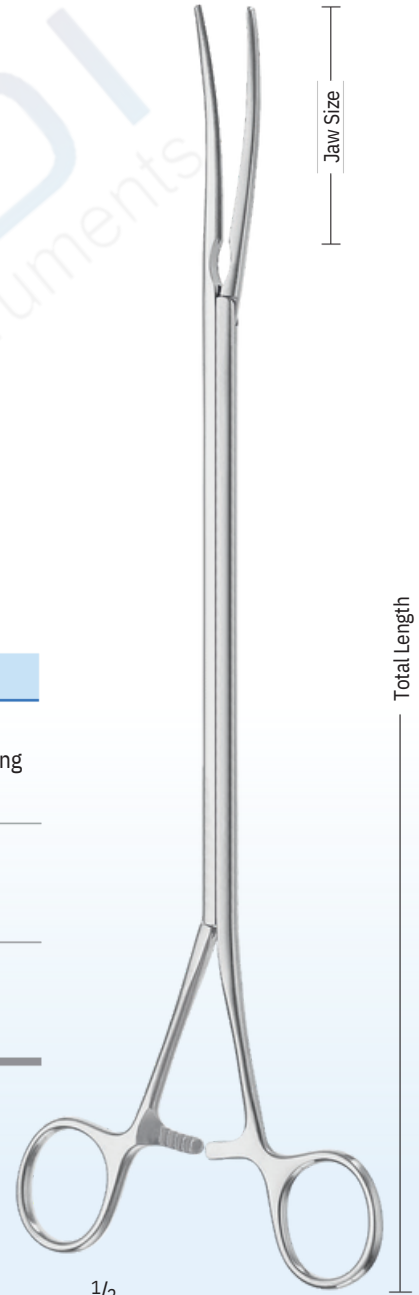
Instruments for Cardiac and Vascular Surgery

Valve XS Miscellaneous Instruments for Minimally Invasive Valve Surgery

Aortic Clamps



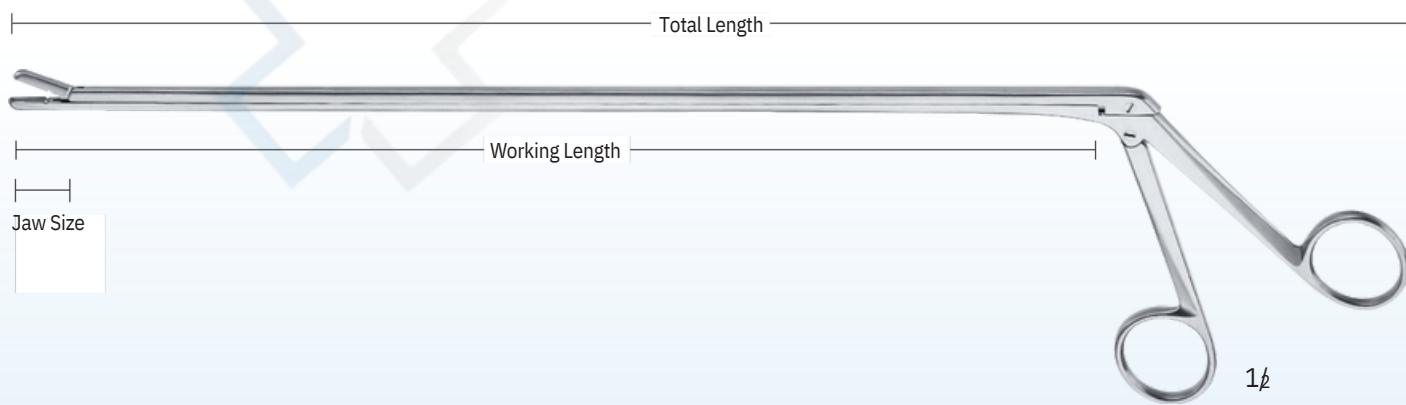
	FC295R	FC296R	FC297R
Toothing	1:2 DeBakey Toothing	1:2 DeBakey Toothing	2:3 DeBakey Toothing
Jaw Size	2.8 x 60 mm	2.8 x 60 mm	4.8 x 85 mm
Total Length	13" (330 mm)	11½" (290 mm)	14¼" (360 mm)



FC295R - FC297R

Rongeurs

Item No.	Jaw Type	Jaw Size	Working Length	Total Length
FC298R	Straight	3 x 10 mm	11½" (290 mm)	14½" (370 mm)
FC299R	30° Upwards Angled	3 x 10 mm	11½" (290 mm)	14½" (370 mm)



FC298R - FC299R

Instruments for Cardiac and Vascular Surgery

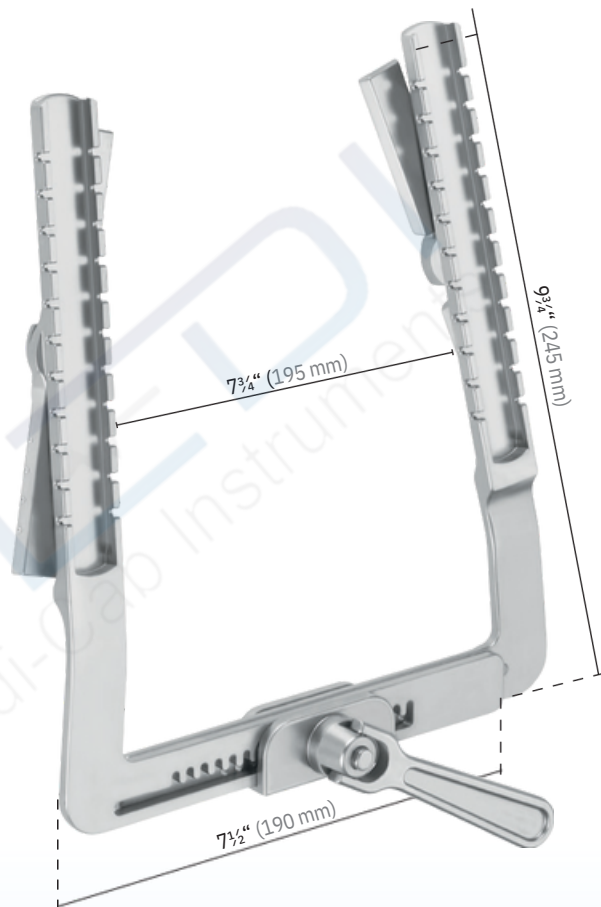
AtRactor Atraumatic Sternal Retractors

AtRactor (Frame)

FC501R

AtRactor Retractor Frame Only

Ratchet Bar	Arm Length	Max. Opening
7½" (190 mm)	9¾" (245 mm)	7¾" (195 mm)



Interchangeable Blades (Depth and Width), (sold individually)



FC502R

30 x 28 mm
AtRactor Swiveling Blade, Straight



FC503R

40 x 28 mm
AtRactor Swiveling Blade, Straight



FC504R

30 x 28 mm
AtRactor Swiveling Blade, Curved

Interchangeable Blades *continued* (Depth and Width), (sold individually)



FC505R

40 x 28 mm

AtRactor Swiveling Blade, Curved



FC506R

50 x 28 mm

AtRactor Swiveling Blade, Straight



FC507R

50 x 28 mm

AtRactor Swiveling Blade, Curved

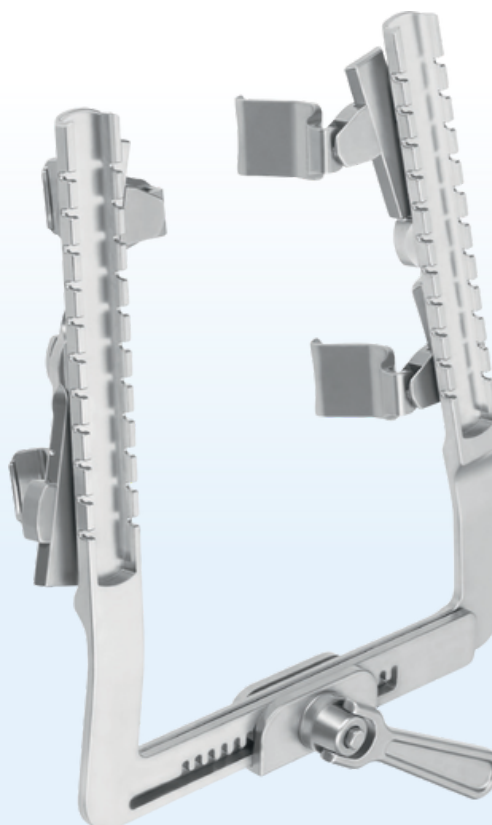
Basic Set Complete

FC500R

AtRactor Retraction System Basic Set

Set consisting of:

- 1 x **FC501R** AtRactor Retractor Frame
- 4 x **FC502R** AtRactor Swiveling Blades, Straight, 30 x 28 mm
- 4 x **FC503R** AtRactor Swiveling Blades, Straight, 40 x 28 mm
- 4 x **FC504R** AtRactor Swiveling Blades, Curved, 30 x 28 mm
- 4 x **FC505R** AtRactor Swiveling Blades, Curved, 40 x 28 mm



Instruments for Cardiac and Vascular Surgery

AtRactor IMA Sternal Retractor Set

IMA Set Complete

FC510R

AtRactor IMA Set Complete

Set consisting of:

- 1 x **FC500R** AtRactor Retraction System Basis Set
- 1 x **FC511R** AtRactor Mammary Retraction System
- 2 x **FC512R** AtRactor Connection Clamp for FC511R



FC511R

AtRactor Mammary Retraction System



FC512R

AtRactor Connection Clamp for FC511R

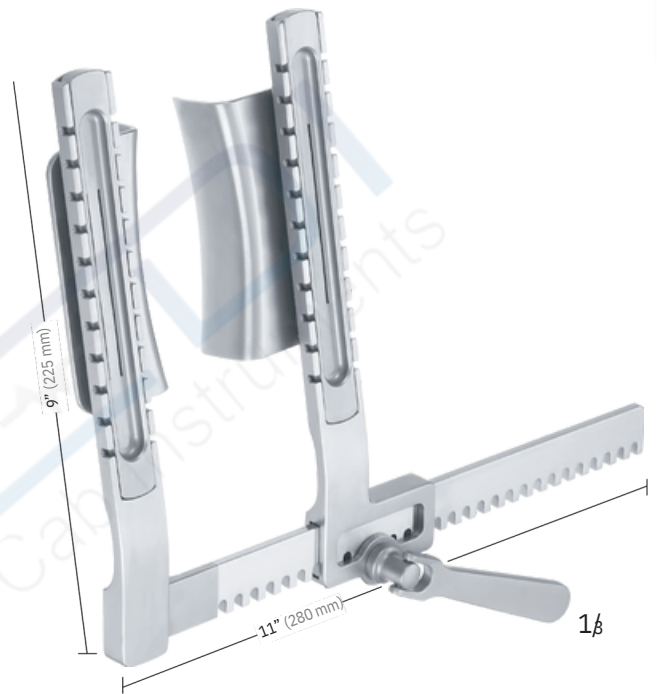
Heart XS Sternal Retraction System for Median Sternotomy

Standard Retractor Set

FC120R

Heart XS Complete Sternal Retraction System for Median Sternotomy
 Set consisting of:

- 1 x **FC137R** Heart XS Retractor only
- 2 x **FC132R** 30 x 100 mm Fixed Blades
- 2 x **FC136R** Insert Blank
- Max. Opening: 8" (200 mm)



Interchangeable Blades

- Allows for flexibility in fitting to individual patient sternal anatomy.



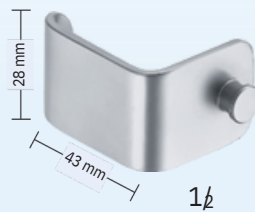
FC131R
 40 x 100 mm
 Heart XS Fixed Blades



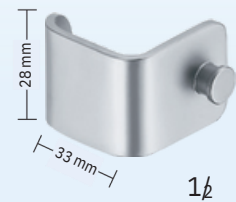
FC132R
 30 x 100 mm
 Heart XS Fixed Blades



FC136R
 Heart XS Insert Blank 160 mm for blade fixation.
 ▪ Locks blades securely in the retractor.



FC133R
 43 x 28 mm
 Heart XS Swiveling Blades



FC134R
 33 x 28 mm
 Heart XS Swiveling Blades

Instruments for Cardiac and Vascular Surgery

Heart XS Sternal Retraction System for Median Sternotomy

Pre-Configured Sets for Valve Surgery

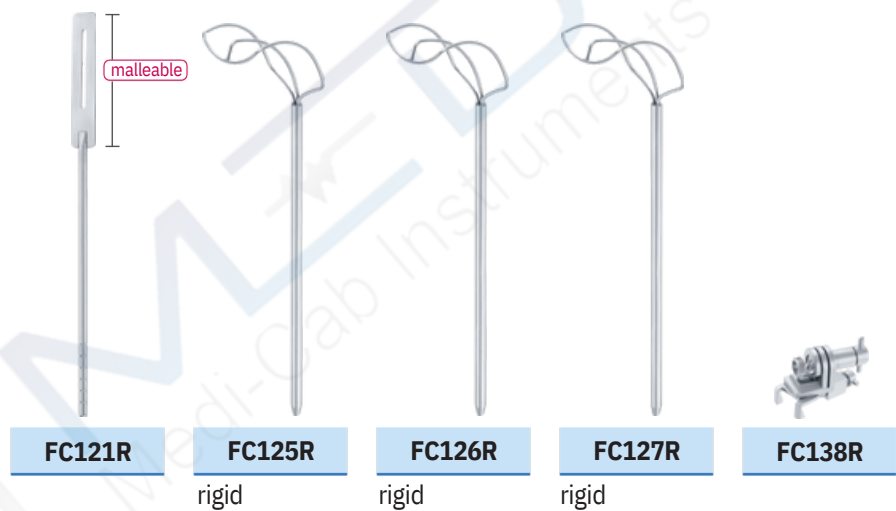
MB756R

Heart XS Valve Retractor Set

- Allows for self-retained valve retraction, which fits directly onto the Heart XS Retractor
- Flexible design allows easy positioning of valve retractor blades on all three sides of sternal retractor

Set consisting of:

- 2 x **FC121R**
- 2 x **FC125R**
- 1 x **FC126R**
- 1 x **FC127R**
- 2 x **FC138R**



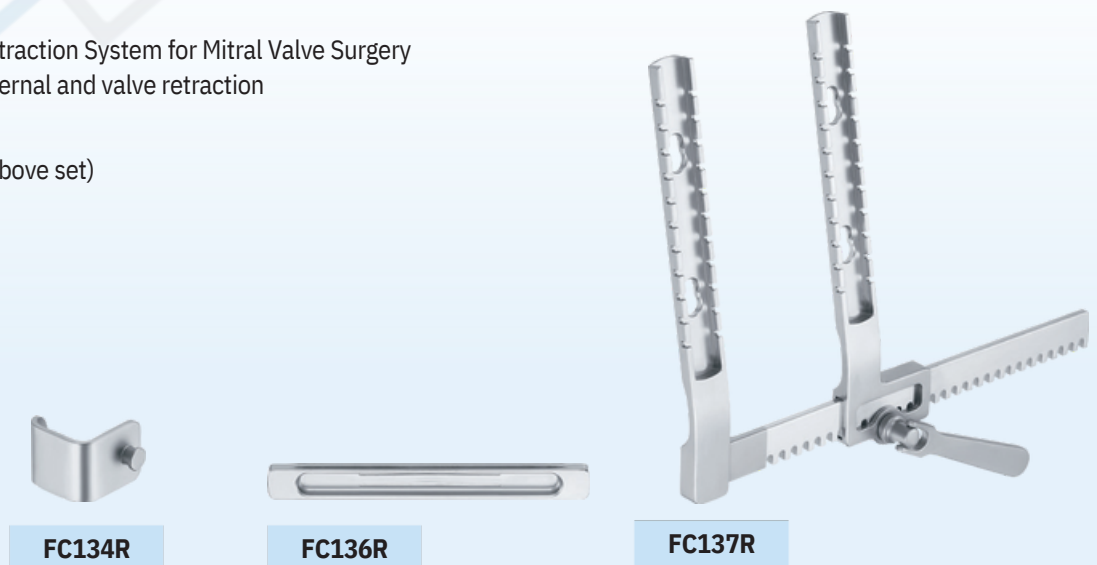
MB754R

Heart XS Complete Sternal Retraction System for Mitral Valve Surgery

- Specifically configured for Sternal and valve retraction

Set consisting of:

- 1 x **MB756R** (all items in the above set)
- 4 x **FC134R**
- 2 x **FC136R**
- 1 x **FC137R**



Optional Accessories for Heart XS and AtRactor Sternal Retractor

FC121R - FC123R

Heart XS Malleable Valve Hook

Item No.	Length	Width	Total Length
FC121R	65 mm	18 mm	10" (250 mm)
FC122R	95 mm	18 mm	11" (280 mm)
FC123R	95 mm	22 mm	11" (280 mm)

malleable

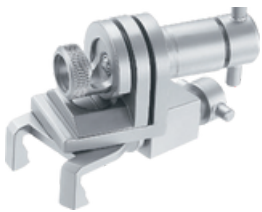
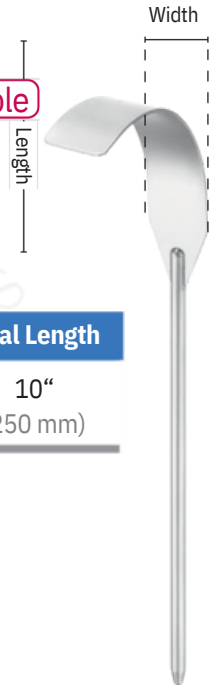


FC124R

Heart XS Malleable Deaver Valve Hook

Item No.	Length	Width	Total Length
FC124R	75 mm	25 mm	10" (250 mm)

malleable



FC138R

Heart XS Connecting Clamp for Optional Accessories



FC147R

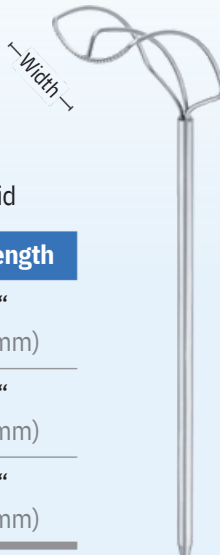
Valve XS Connecting Clamp



FC138R

Heart XS Hook Extension Bar

Depth



FC125R - FC127R

Heart XS COOLEY Atrium Retractor, Shaft: Rigid

Item No.	Length	Width	Total Length
FC125R	60 mm	20 mm	10" (250 mm)
FC126R	60 mm	35 mm	10" (250 mm)
FC127R	60 mm	45 mm	10" (250 mm)



FC135SU

Single Use Suture Holder Inserts (AtRactor only)
1 box FC135SU: 10 Packs of 2, Sterile Units

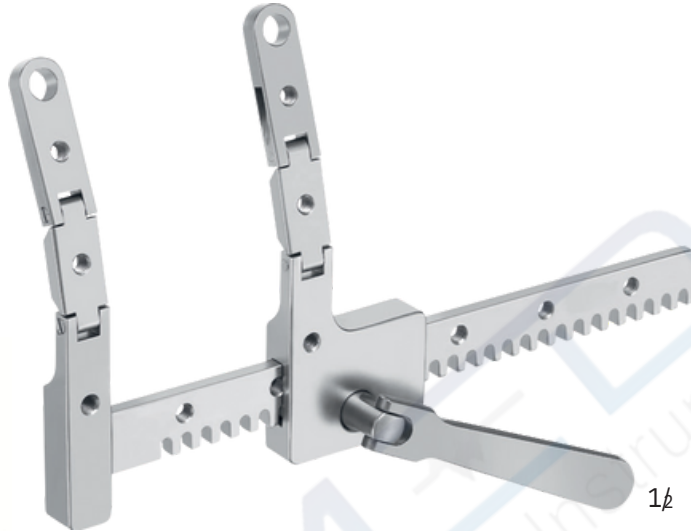
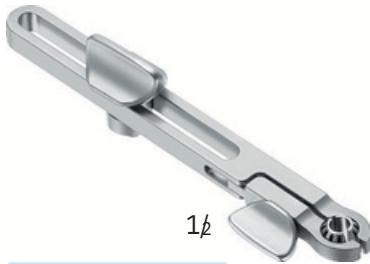
Instruments for Cardiac and Vascular Surgery

TAVI-MIDCAB Retraction System

Retractor Only

FC520R

RETRACTOR only,
double joint



FC522R

MIDCAB Stabilizer

FC521R

MIDCAB Adapter for FC522R

The double joint retractor allows for individual patient adjustment in a low profile design. Stabilizer can be connected for suction to clear surgical site.

Double Blades (sold individually)



FC530R

Double Blade, 40 mm



FC531R

Double Blade, 50 mm



FC532R

Double Blade, 60 mm



FC533R

Double Blade, 70 mm



FC534R

Double Blade, 80 mm

The rotating double blades conform to the changing dimensions of the ribs in the opening process of the retractor. Various blade lengths are available according to the thickness of the chest wall including the option of different lengths to accommodate the breast of female patients.

MIDCAB Retractor Complete Set

FC525R

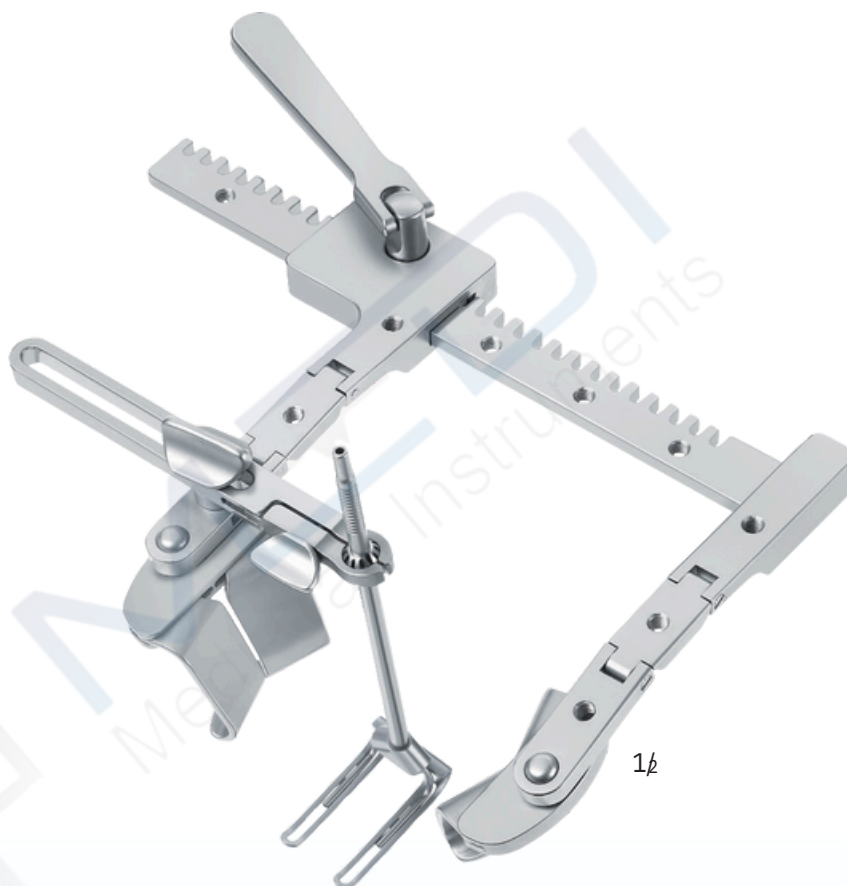
Set consisting of:

FC520R Retractor

FC521R MIDCAB Adapter

FC522R MIDCAB Stabilizer

FC530R-FC534R various double blades



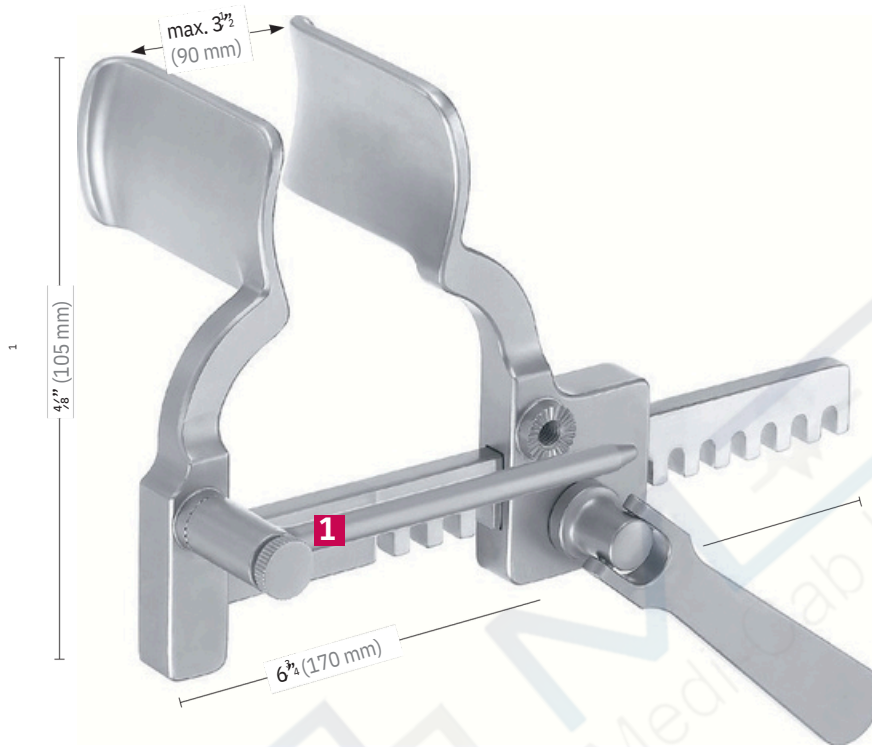
Features of the newly designed TAVI-MIDCAB retractor system:

- Improved visibility and access to surgical site due to:
 - Low profile design
 - Flexible, interchangeable blades
 - Multitude of stabilizer mounting positions
 - Suction capability
- Reduced tissue and rib trauma due to flexible blades
Adaptable to most patients through use of interchangeable blades

With these technical features, this retractor is also very applicable for Transapical TAVI (transcatheter aortic valve implantation) procedures, which are generally performed in elderly comorbid patients, whose tissue sensitivity and consistency is already severely impaired.

Instruments for Cardiac and Vascular Surgery

Valve XS Lateral Rib Approach Retraction System



FC145R

Valve XS Rigid Retraction System
for Lateral Approach

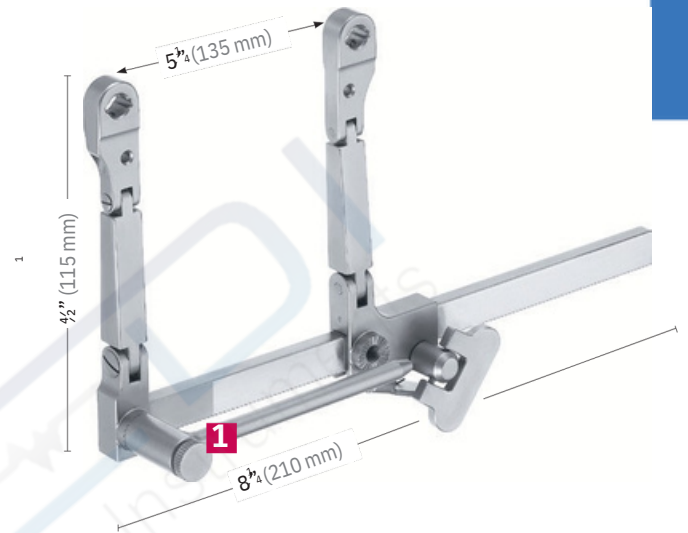
Blade Size: 59 x 37 mm (depth x width)

1 Fixation Rod Removable

**FC140R**

Set Valve XS Retraction System for Lateral Approach with Double Joint
Consisting of

1x **FC143R** Spreader only
2x **FC141R** Blade

**FC143R**

Spreader Only

1 Fixation Rod Removable

**FC145R**

Forceps to Remove
the Retractor Blades

**FC142R**

Blade Only
with Ball Snap Closure
Blade Size: 53 x 36 mm

**FC141R**

Blade Only
with Ball Snap Closure
Blade Size: 33 x 36 mm

Instruments for Cardiac and Vascular Surgery

Accessories for Lateral Rib Retractors



FC121R - FC123R

Heart XS Malleable Valve Hook

Item No.	Blade Size	Total Length
FC121R	65 x 18 mm	10" (250 mm)
FC122R	95 x 18 mm	11" (280 mm)
FC123R	95 x 22 mm	11" (280 mm)

FC124R

Heart XS Malleable Deaver Valve Hook

Item No.	Blade Size	Total Length
FC124R	75 x 25 mm	10" (250 mm)



FC146R

Valve XS Connecting
Clamp Type A



FC147R

Valve XS Connecting
Clamp Type B



FC148R

Valve XS Connecting
Clamp Type C



FC149R

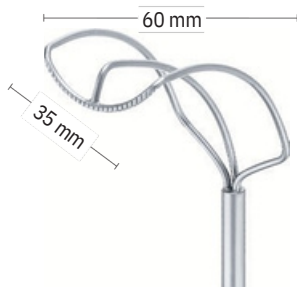
Valve XS Connecting
Clamp Type D

Total Length

Dimensions for Blade Size of Retractors

1st Number = Depth Example: 60 x 35

2nd Number = Width

**FC125R - FC127R**

Heart XS COOLEY Atrium Retractor, Shaft: Rigid

Item No.	Length	Total Length
FC125R	60 x 20 mm	10" (250 mm)
FC126R	60 x 35 mm	10" (250 mm)
FC127R	60 x 45 mm	10" (250 mm)



Instruments for Cardiac and Vascular Surgery

Valve XS Atrium Retraction System

FC420R

Atrium Retraction

Consisting of: FC423R - FC430R



FC423R

Insertion Instrument

11¾" (300 mm)



FC427R

Rod for Retractor Blades

9½" (242 mm)

Retractor Blades for Mitral Valve



Item No.	Height	Width
FC424R	50	35 mm
FC425R	60 mm	35 mm
FC426R	70 mm	35 mm



Item No.	Height	Width
FC428R	50	45 mm
FC429R	60 mm	45 mm
FC430R	70 mm	45 mm



2

FC421R

Additional lateral Blade only for Retractor
Blades for Mitral Valve
(Single use Product)

Blades for Tricuspid Valve

Item No.	Height	Width
FC431R	25	20 mm
FC432R	25 mm	25 mm
FC433R	40 mm	25 mm



Item No.	Height	Width
FC434R	50	25 mm
FC435R	25 mm	40 mm
FC436R	25 mm	50 mm

**Mechanical Holding Arm Set,
Complete with Atrium Retractor****MG291R**

Includes:

Mechanical Holding Arm
OR Table Clamp
Universal Instrument Holder
Atrium Retractor Set **FC420R**



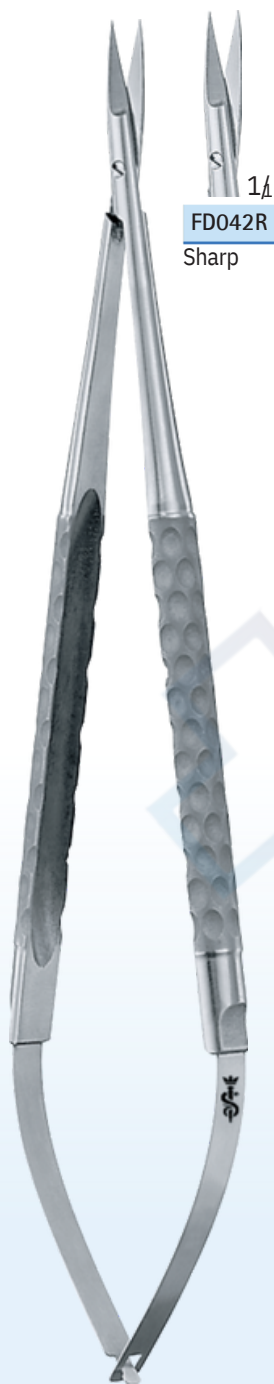
Mechanical Arm

Instruments for Cardiac and Vascular Surgery

Shunt Operation Instruments

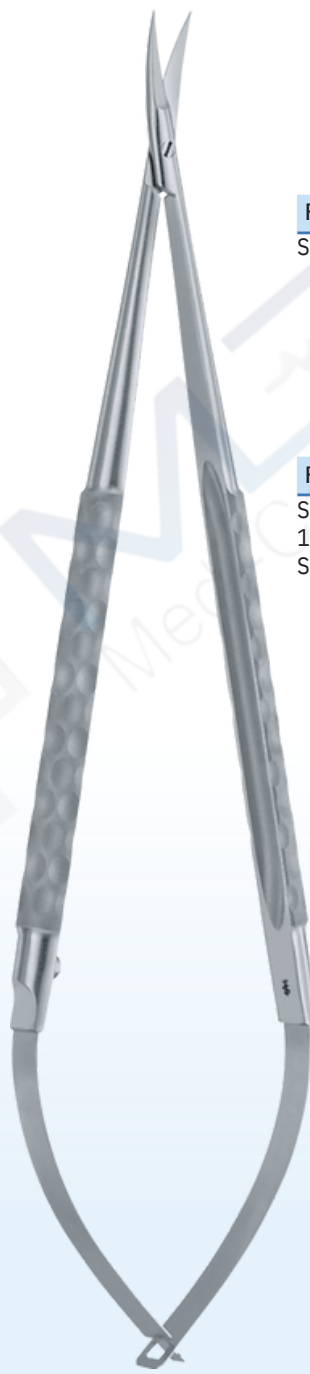
The shunt instruments were developed specifically for operations on vessels that are between 4 and 6 mm in diameter. This width is frequently found in dialysis shunt operations and re-operations. These instruments combine the features of conventional and micro instruments. The working tips are larger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

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



FD042R
Sharp

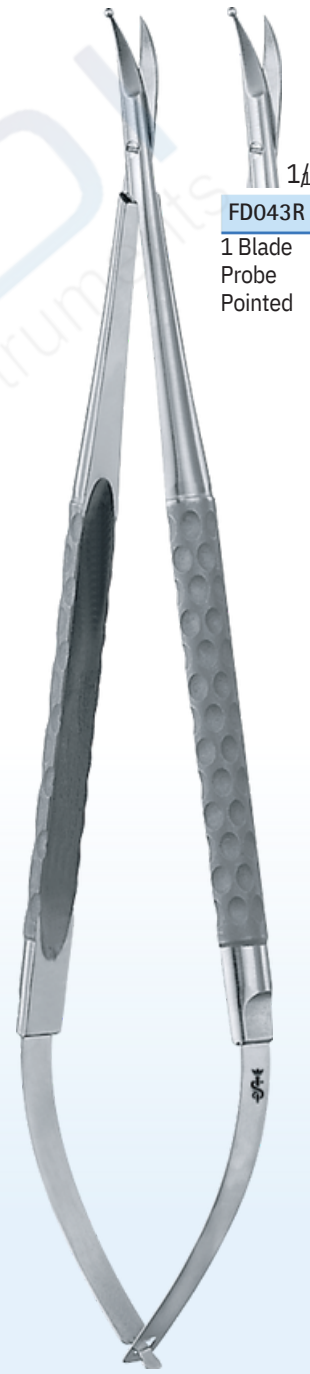
FM042R
Micro Scissors
180 mm, 7"



FD251R
Sharp

FD252R
Sharp/Sharp,
1 Blade
Serrated

FD251R-FD252R
Micro Scissors
180 mm, 7"



FD043R
1 Blade
Probe
Pointed

FM043R
Micro Scissors
180 mm, 7"

Instruments for Cardiac and Vascular Surgery

Shunt Operation Instruments



BV059R
Self-retaining Retractor
120 mm, 4 3/4"



FM047R
Micro Ring Forceps
180 mm, 7"



FM047R
Ring Diameter:
2 mm



Instruments for Cardiac and Vascular Surgery

Single-Use Microsurgery Scalpels



Micro Scalpel
with Polymer Handle
(Grey)

BA364

165 mm, 6 1/2"



Single use, sterile
packed, with light-
weight ergonomic
handle.

Sales Unit: PAC =
Package of 5 Pieces

Micro Scalpel
with Polymer Handle
(Yellow)

BA367

165 mm, 6 1/2"

Microsurgery Blades,
Stainless Steel, Sterile



BB363R

ST = Package of
1 Piece



BB364R

PAC = Package
of 10 Pieces



BB365R

PAC = Package
of 10 Pieces



BB367R

PAC = Package
of 10 Pieces

Scalpel Handles for Microsurgery Blades



Titanium Scalpel Handle

BB045T

145 mm, 5 ¾"



BB046R

135 mm, 5 ½"



BB048R

155 mm, 6"



CASPAR Scalpel Handle

BB052R

180 mm, 7"



BB054R

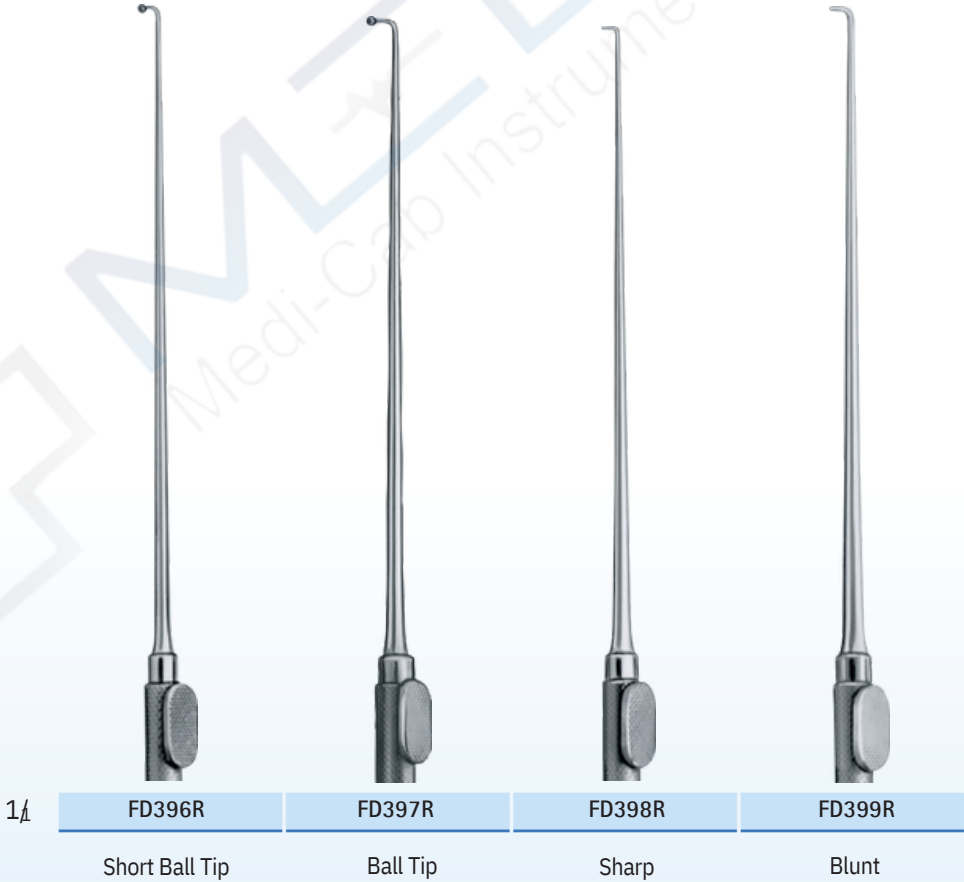
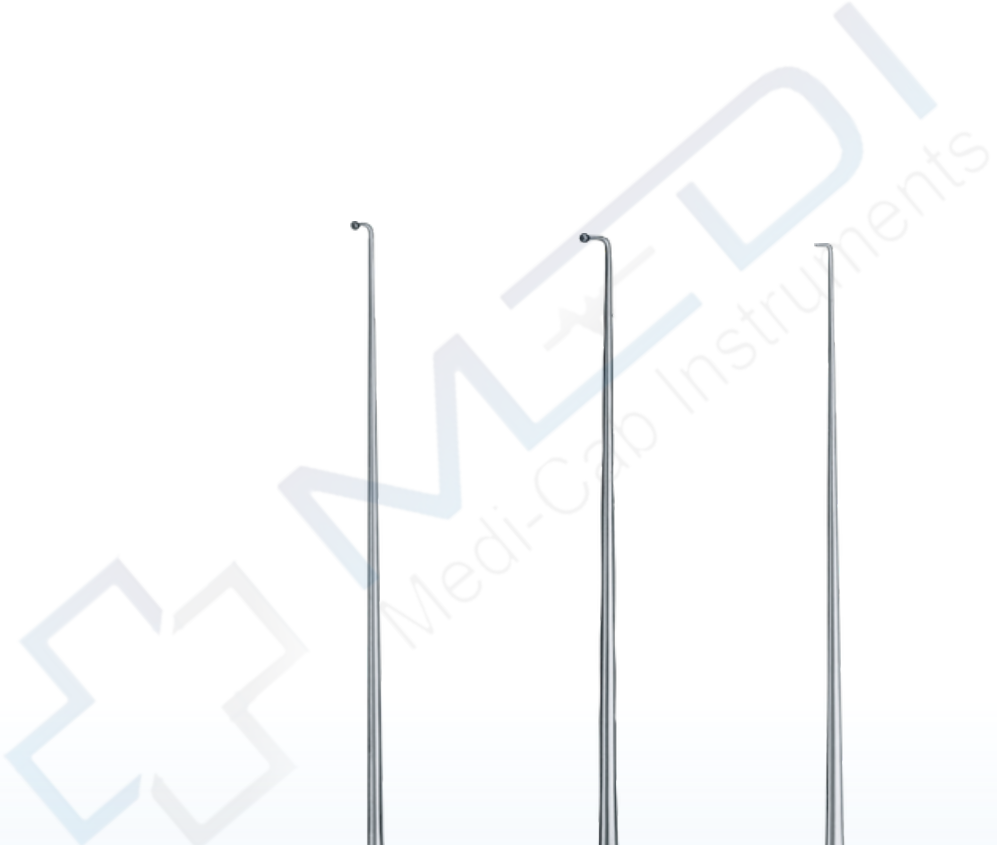
200 mm, 8"

Instruments for Cardiac and Vascular Surgery

Nerve and Vessel Hooks



KRAYENBÜHL
FD396R-FD399R
185 mm, 7 1/4"



1/	FD396R	FD397R	FD398R	FD399R
	Short Ball Tip	Ball Tip	Sharp	Blunt

Vessel Clips

Closing Force (g)					
VEIN 50 g	FE010K	FE011K	FE012K	FE013K	FE014K
ARTERY 80 g	FE020K	FE021K	FE022K	FE023K	FE024K
	straight	curved	curved tips	angled to side	knee-bent

MÜLLER

FE010K-FE024K

Non-traumatic Vessel Clips, Temporary



1/1
Jaw Profiles,
Cross-Serrated

MÜLLER

FE005K

Ligature Forceps

Instruments for Cardiac and Vascular Surgery

Titanium Vascular Clamps

ARAUMATA

Toothing-DE BAKEY



1/1



1/1

70 mm

DE BAKEY

FC320T

230 mm, 9"



1/1



1/1

60 mm

15°

DE BAKEY

FC321T

215 mm, 8 1/2"



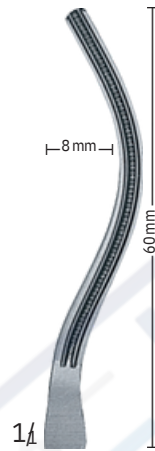
1/1

FC322T
225 mm
9"



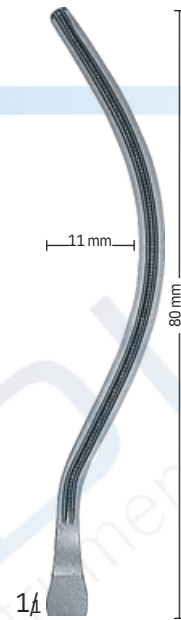
1/1

FC323T
245 mm
9 3/4"



1/1

FC324T
220 mm
8 3/4"



1/1

FC325T
270 mm
10 3/4"



1/1

DE BAKY
FC322T-FC323T

1/1



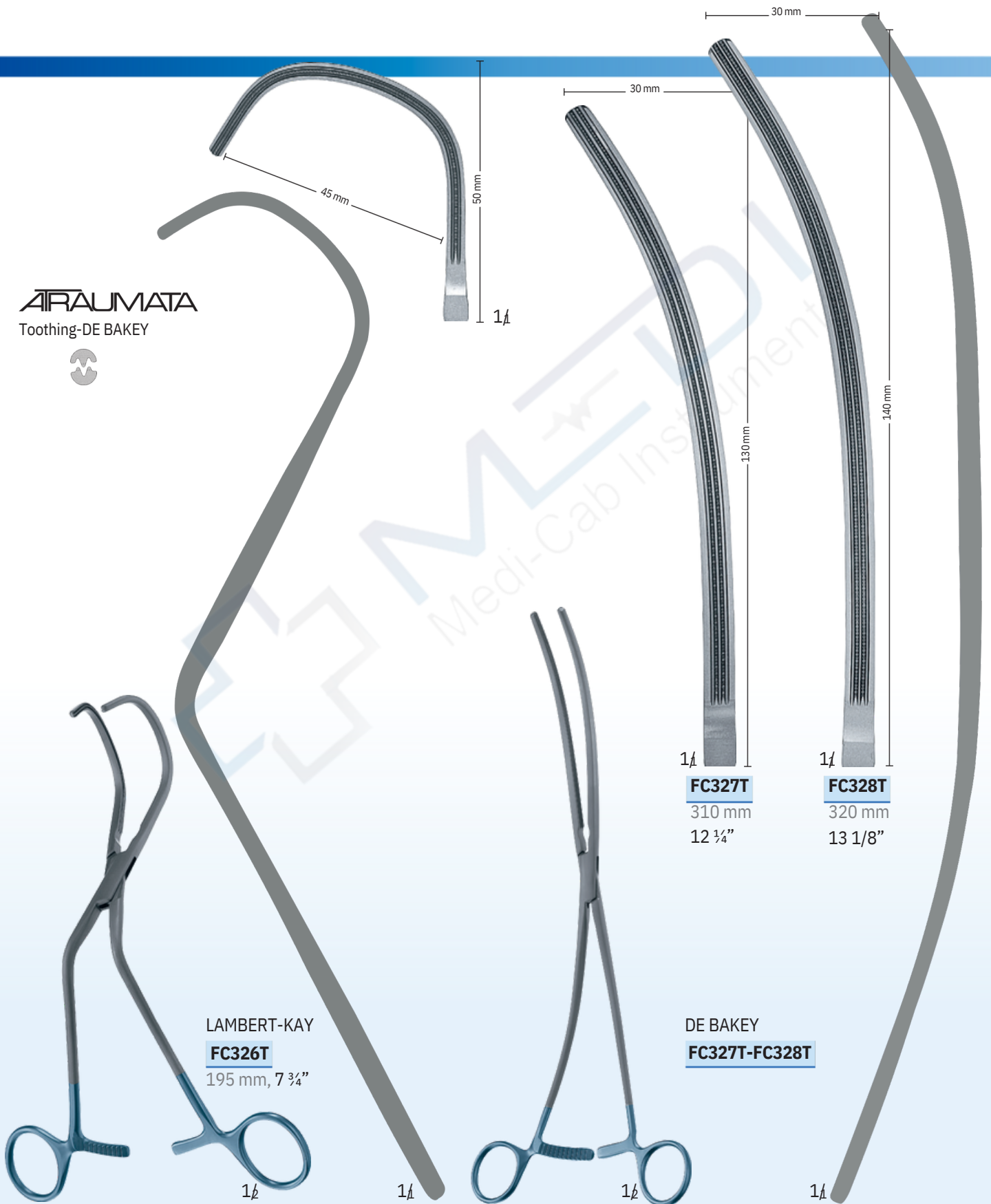
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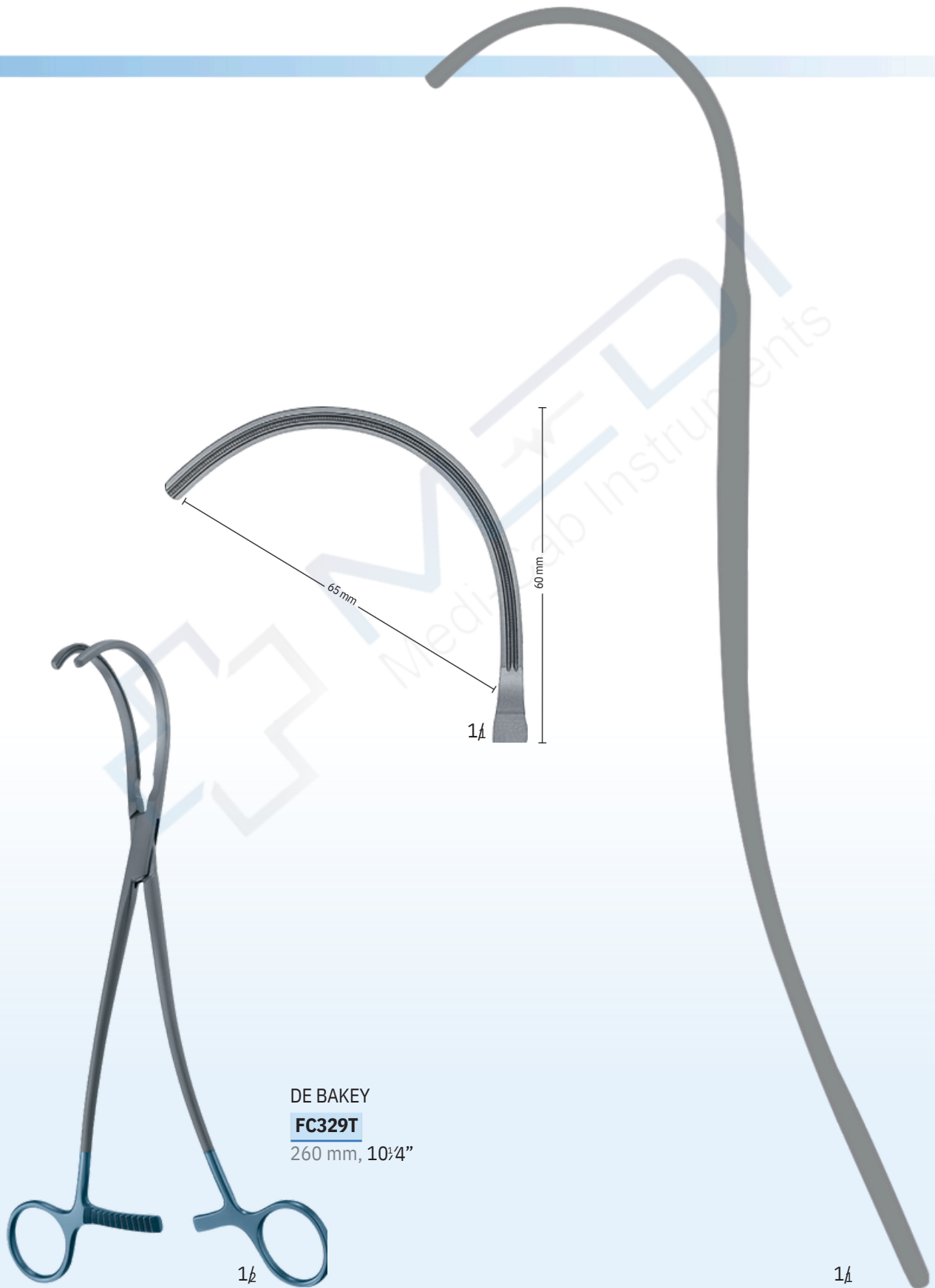
GLOVER
FC324T-FC325T

1/1

Instruments for Cardiac and Vascular Surgery

Titanium Vascular Clamps





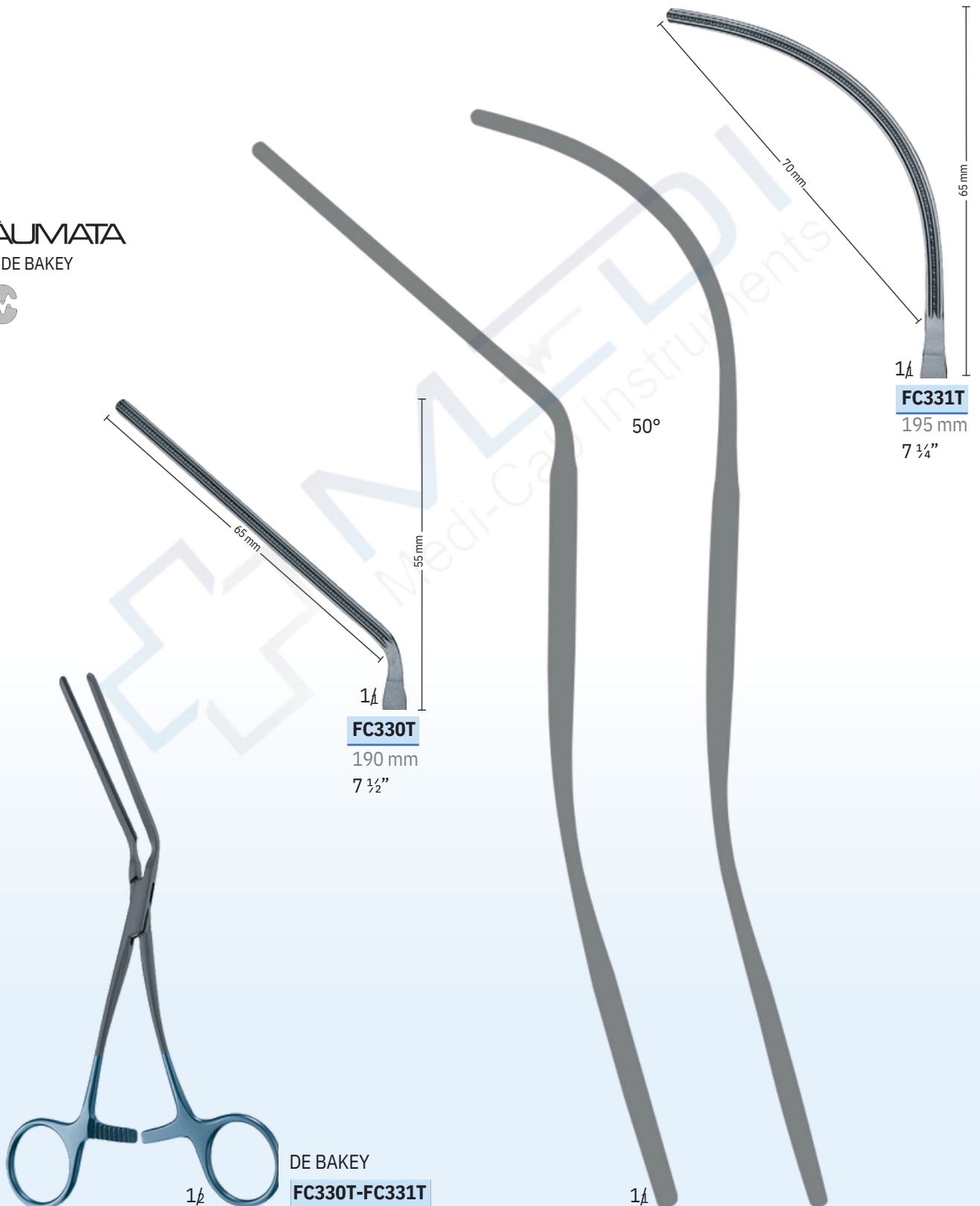
DE BAKEY
FC329T
260 mm, 10 $\frac{3}{4}$ "

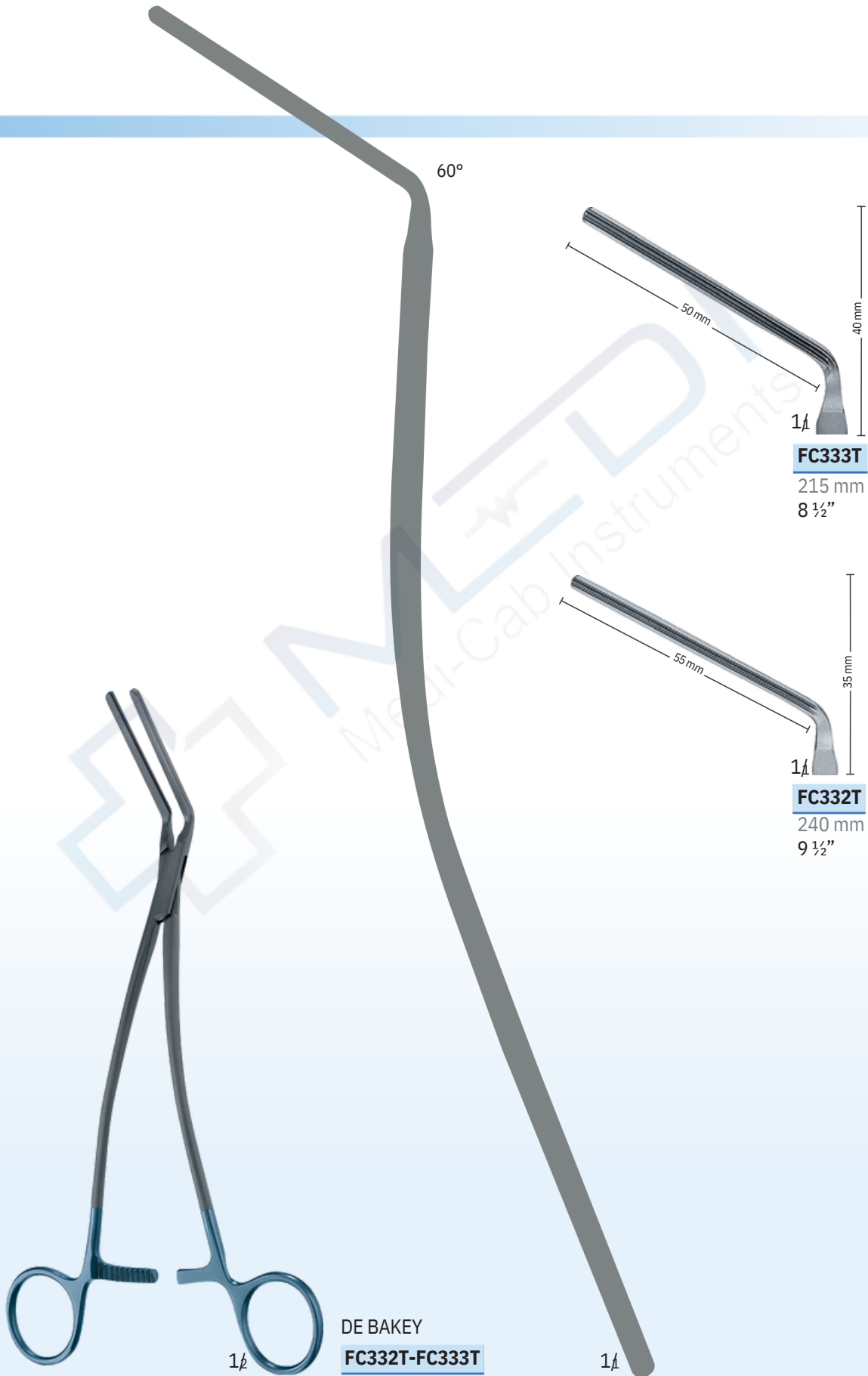
Instruments for Cardiac and Vascular Surgery

Titanium Vascular Clamps

ARAUMATA

Toothing-DE BAKEY





Instruments for Cardiac and Vascular Surgery

Titanium Vascular Clamps

ARAUMATA

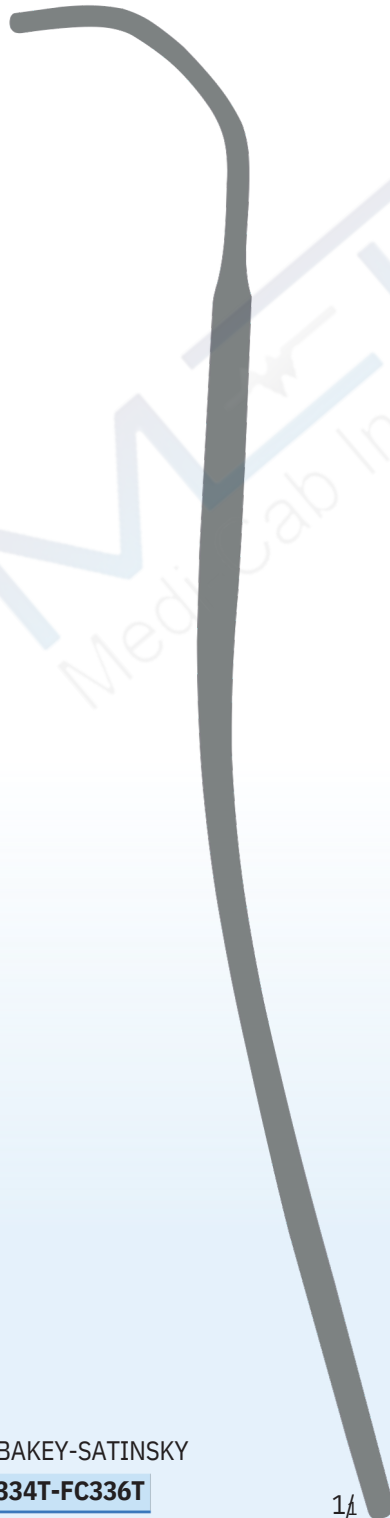
Toothing-DE BAKEY



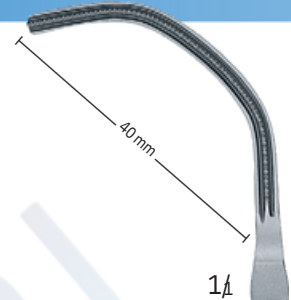
1/1

DE BAKEY-SATINSKY

FC334T-FC336T



1/1

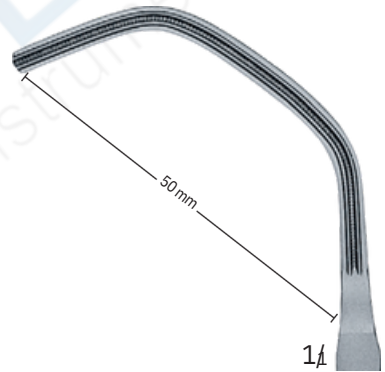


1/1

FC336T

200 mm

8"

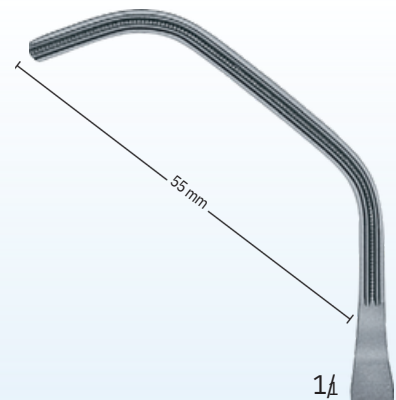


1/1

FC335T

245 mm

9 3/4"

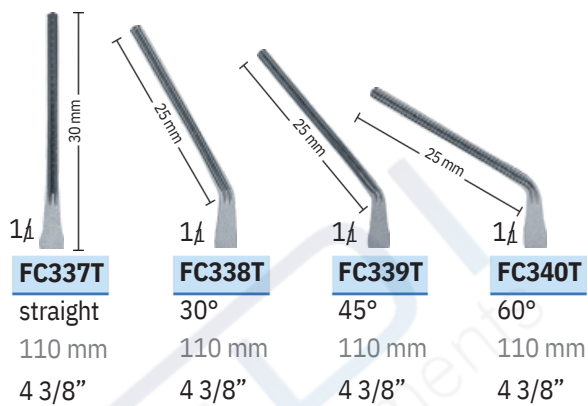


1/1

FC334T

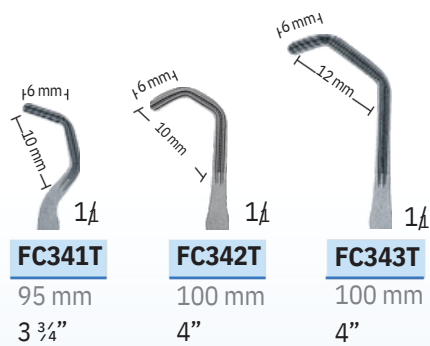
250 mm

10"



DE BAKEY

FC337T-FC343T





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Medi-Cab Instruments

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Pakistan 📍 | 51310 | Phone +92 312 079 8537 | Whatsapp +92 312 079 8537|
medicabins@gmail.com | www.medicabins.com
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