

Instruments for Cardiac and Vascular Surgery



Aesculap Surgical Specialty Products – Cardiothoracic

AESCULAP®

Instruments for Cardiac and Vascular Surgery

OPERATE WITH GREATER PRECISION

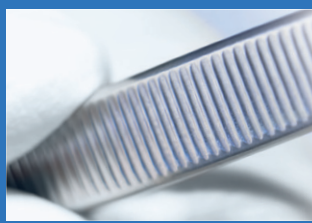
At Aesculap, we understand your practice faces evolving challenges from a rapidly aging patient population and increasingly complex diseases. For that reason, we are committed to delivering innovative cardiothoracic technologies, designed and manufactured with the same high standard of quality we have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



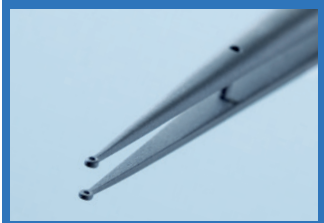
The working surfaces of the jaws of all Dia Dust™ instruments are coated with a fine layer of diamond dust, which results in a hard surface with high wear resistance. Moreover, the structure of the Dia Dust coating provides a reliable grip for fine needles and sutures as well as tissue. Suitable for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

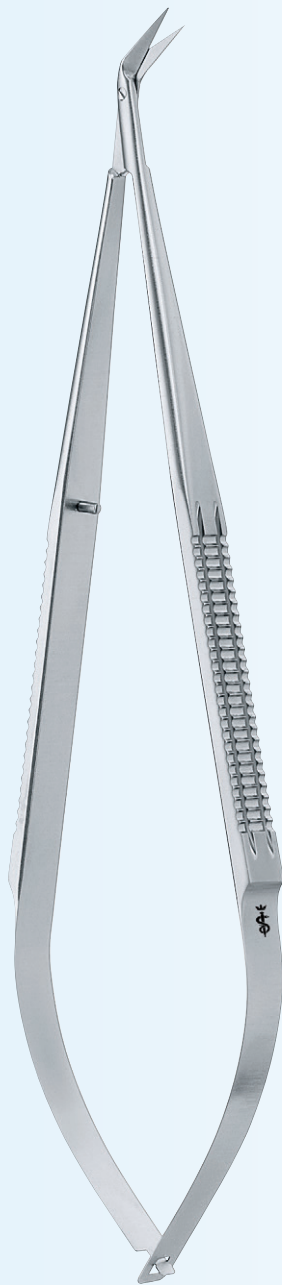
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Instruments for Cardiac and Vascular Surgery

Micro Scissors with Flat Handle

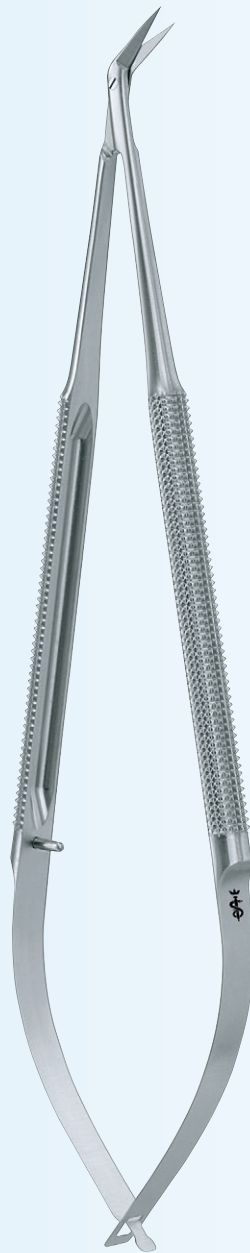


165 mm, 6 1/4"
























	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"


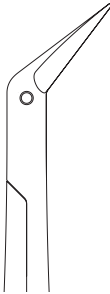
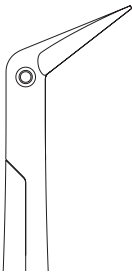
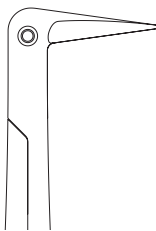
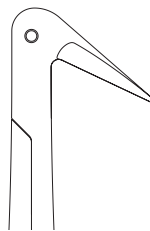
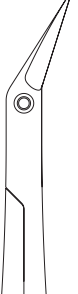
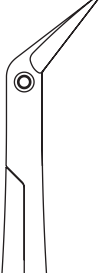
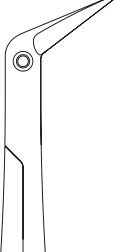
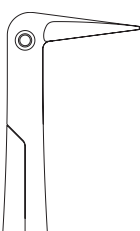
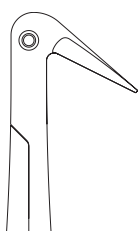
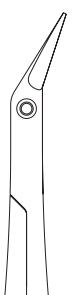
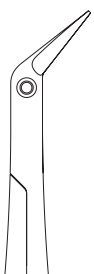
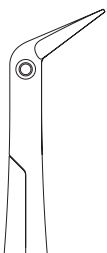
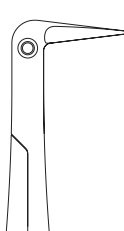
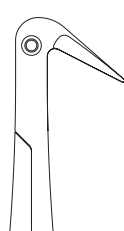
	25°	45°	60°	90°	125°	Straight	Curved on Flat
Fine Blade 1/1	 FM476R	 FM477R	 FM478R	 FM479R	 FM480R		
Delicate Blade 1/1	 FM482R	 FM483R	 FM484R	 FM485R	 FM486R	 FM488R	 FM481R
Delicate Blade, with One Probe Pointed Blade 1/1	 FM489R	 FM490R	 FM491R	 FM492R	 FM493R		
Ultra Delicate Blade 1/1	 FM504R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

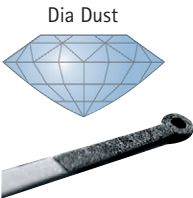
**FM616B**

125°

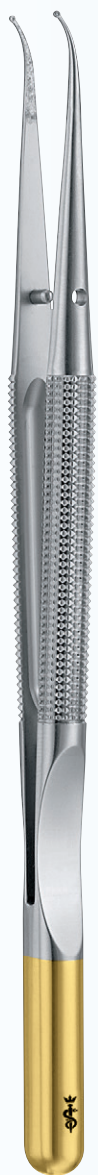
Instruments for Cardiac and Vascular Surgery

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	



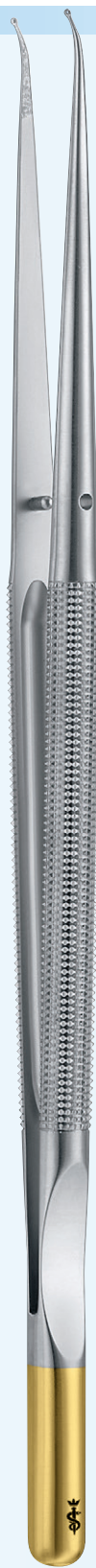
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



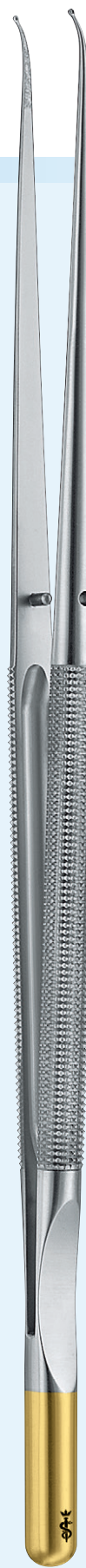
150 mm, 6"



185 mm, 7 1/4"



210 mm, 8 1/4"







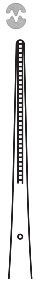
230 mm, 9"

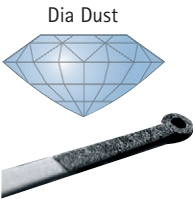


250 mm, 10"

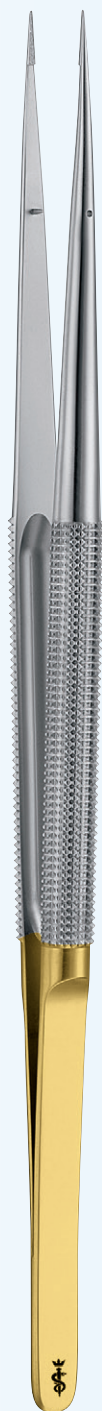
Instruments for Cardiac and Vascular Surgery

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 1/1					
185 mm 7 1/4"	FM597R	FM587R	FM582R	FM586R	FM590R
210 mm 8 1/4"	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.



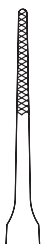




185 mm, 7 1/4"

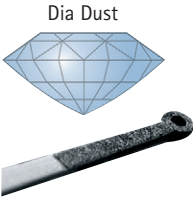


210 mm, 8 1/4"

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					
180 mm 7"	BD190R	BD191R	BD192R	BD193R	BD194R
200 mm 8"		BD195R			BD196R
250 mm 10"	BD197R				
Also Offered	BD198R	Cushing DUROGRIP™ Forceps STR. 210 mm, 8 1/4"			
*No Images Available	BD200R	Thumb Dia Dust Forceps 1 mm STR. 180 mm, 7"			
	BD201R	Thumb Dia Dust Forceps 1 mm STR. 210 mm, 8 1/4"			



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



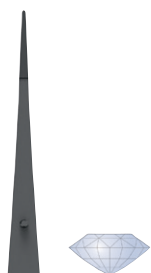
Item No.	FM627B	FM628B
Total Length	185 mm 7¼"	210 mm 8¼"

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



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

Jaw type: Platform Tip, Straight



Item No.	FM617B	FM618B
Total Length	185 mm 7 1/4"	210 mm 8 1/4"




Jaw type: 1 mm, DeBakey Tip



Item No.	FM647B	FM648B
Total Length	185 mm 7 1/4"	210 mm 8 1/4"

Instruments for Cardiac and Vascular Surgery

Micro TITANIUM Forceps

Jaw	Ring Diameter: 1 mm, Straight	Platform Tip, Straight	1 mm, DeBakey Tip
Total Length 1 ¹ / ₁			
185 mm 7 1 ¹ / ₄ "	FM317T	FM327T	FM337T
210 mm 8 1 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.



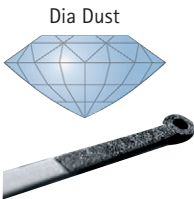
Blue: Micro Forceps with Ring Jaw



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 1/4"



FM318T

210 mm
8 1/4"

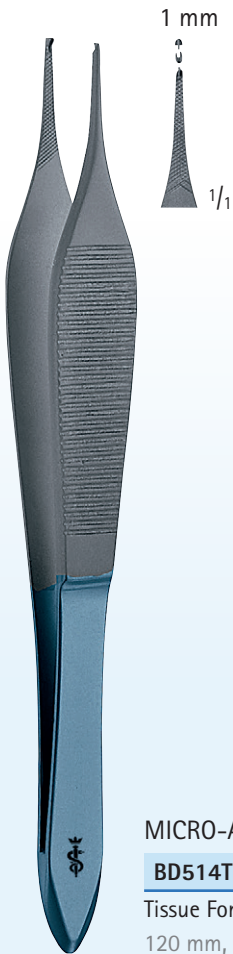


FM319T

230 mm
9"

Instruments for Cardiac and Vascular Surgery

TITANIUM Forceps





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






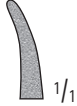


GERALD
BD657T
Tissue Forceps
170 mm, 6 3/4"

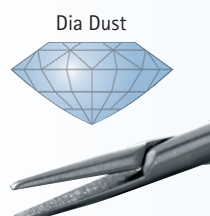


RESANO
BD715T
Grasping Forceps
230 mm, 9"

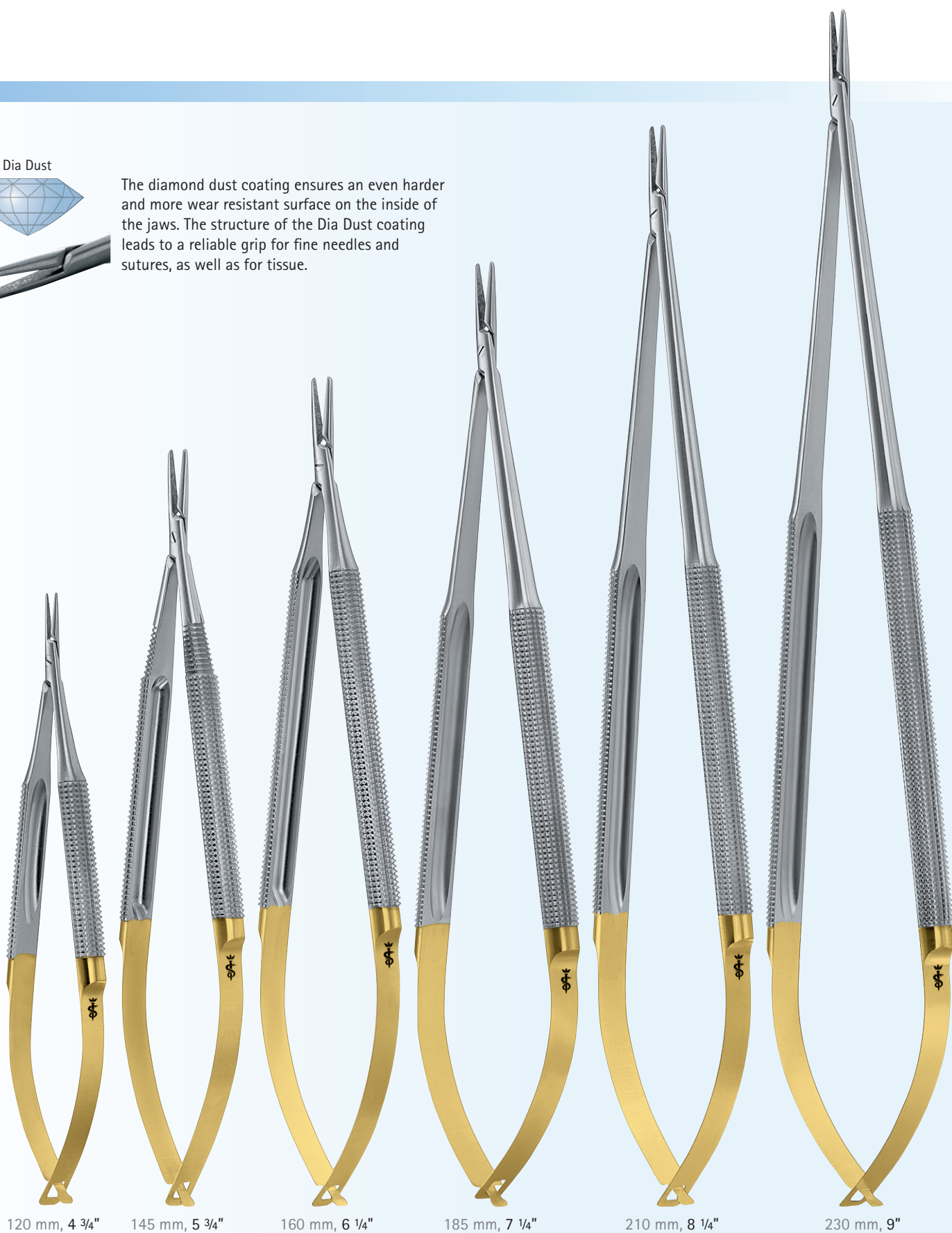
Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders with Round Handle

					
		Suture Size			
<div>With Catch</div> 	Total Length (in.)	7/0 and Smaller	5/0 and Smaller	4/0 and Smaller	4/0 and Smaller
	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
<div>Without Catch</div> 	230 mm 9"	FM567R	FM568R	FM230R	FM223R
	Total Length (in.)	7/0 and Smaller	5/0 and Smaller		
	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		



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

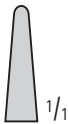


Total Length (in.)

190 mm
7 1/2"

230 mm
9"

250 mm
10"



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"



Suture Size

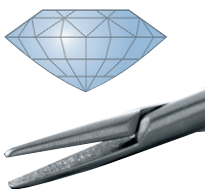
2/0 and Smaller

[FM535R](#)

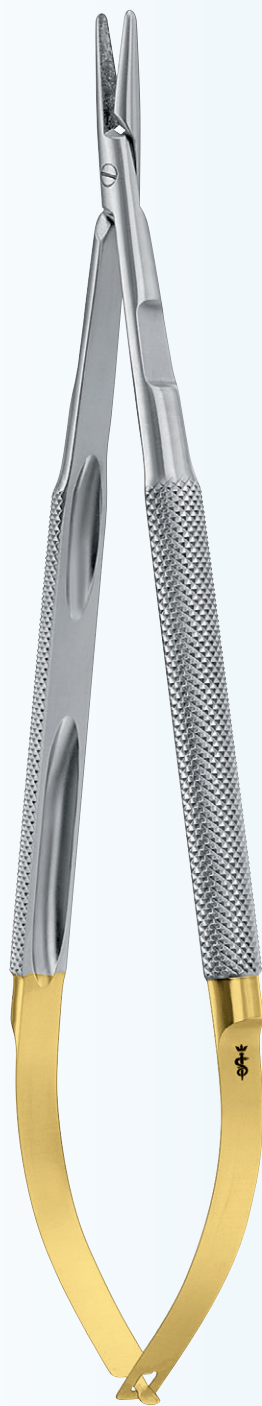
[FM536R](#)

[FM537R](#)

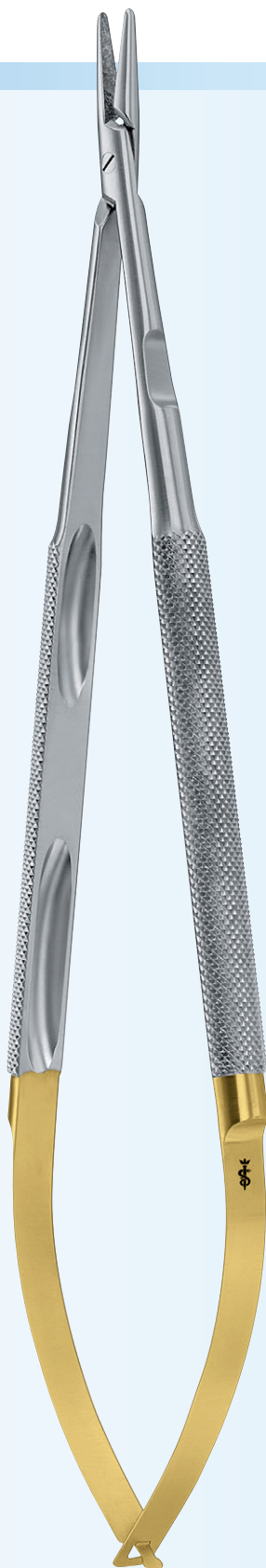
Dia Dust



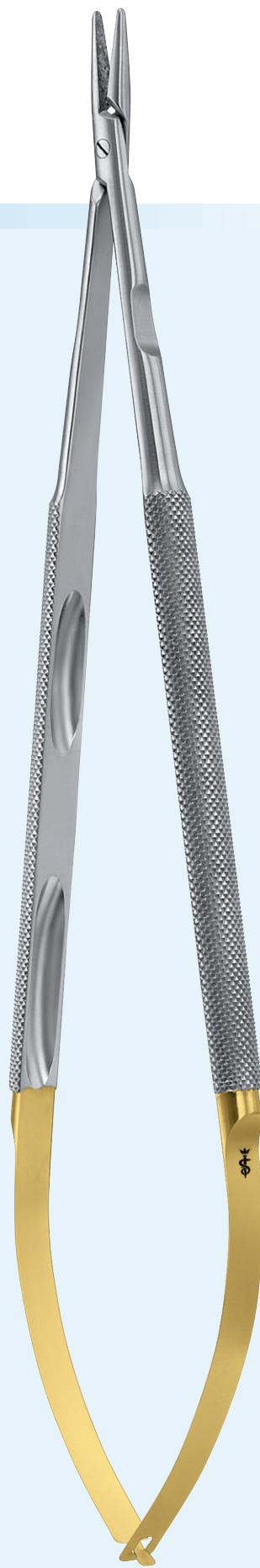
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190 mm, 7 1/2"




230 mm, 9"

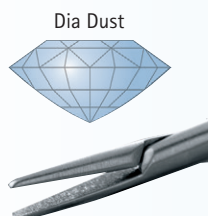


250 mm, 10"

Instruments for Cardiac and Vascular Surgery

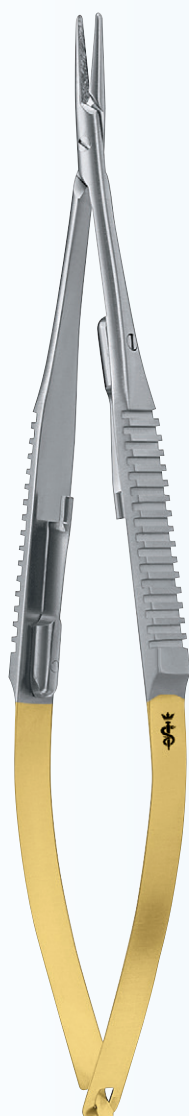
Dia Dust™ Micro Needle Holders with Flat Handle

			
		Suture Size	
With Catch	Total Length (in.)	7/0 and Smaller	5/0 and Smaller
	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	Total Length (in.)	7/0 and Smaller	5/0 and Smaller
	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



Dia Dust

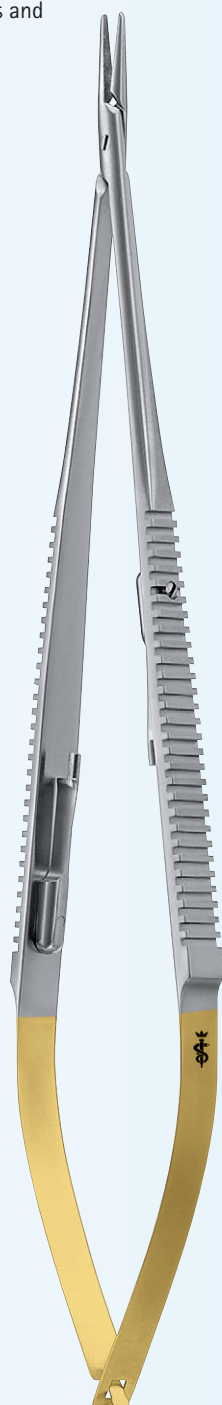
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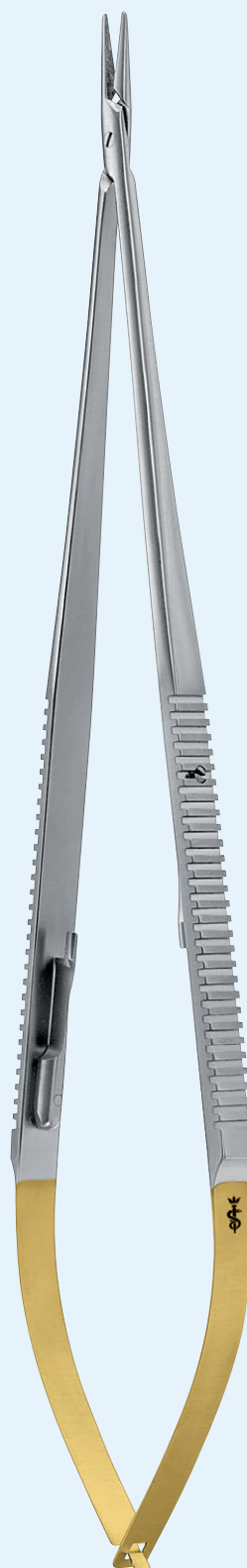
145 mm, 5 3/4"



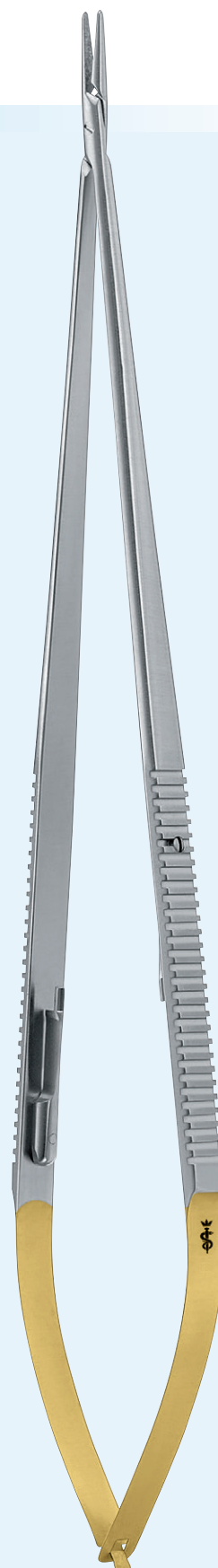
170 mm, 6 3/4"



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 Flat Knurled Handle

With Catch



Total Length

185 mm
7 1/4"

210 mm
8 1/4"

230 mm
9"



1/1

Suture Size

5/0 and Smaller

[FM550R](#)

[FM551R](#)

[FM552R](#)

Without Catch



Total Length

185 mm
7 1/4"

210 mm
8 1/4"

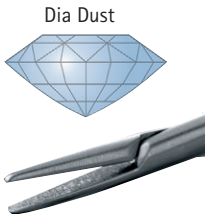
230 mm
9"

5/0 and Smaller

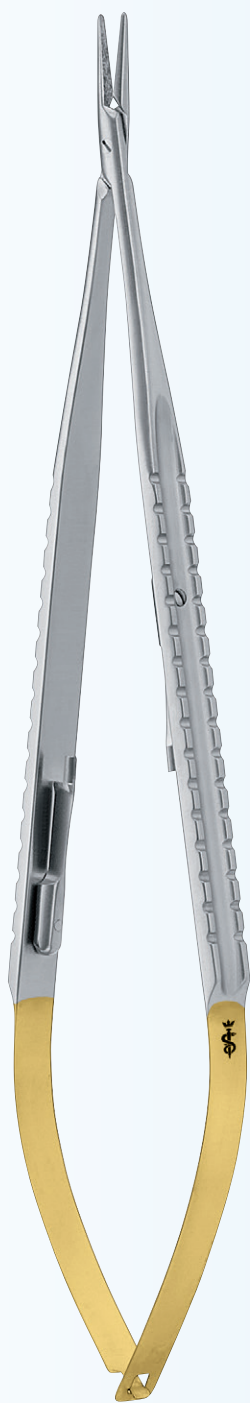
[FM553R](#)

[FM554R](#)

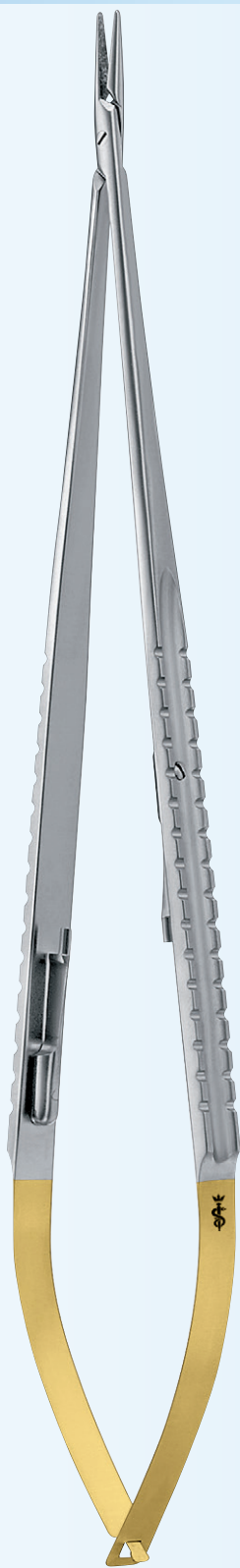
[FM555R](#)



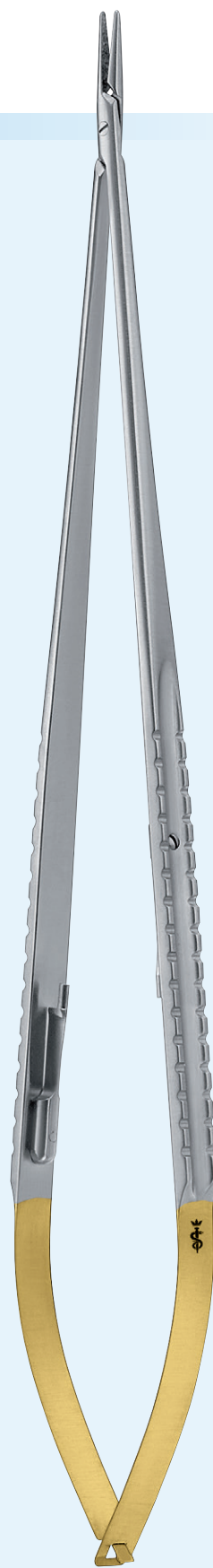
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



185 mm, 7 1/4"



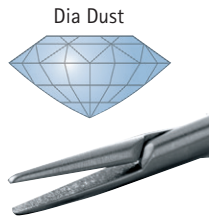
210 mm, 8 1/4"



230 mm, 9"

Instruments for Cardiac and Vascular Surgery

Dia Dust™ Micro Needle Holders



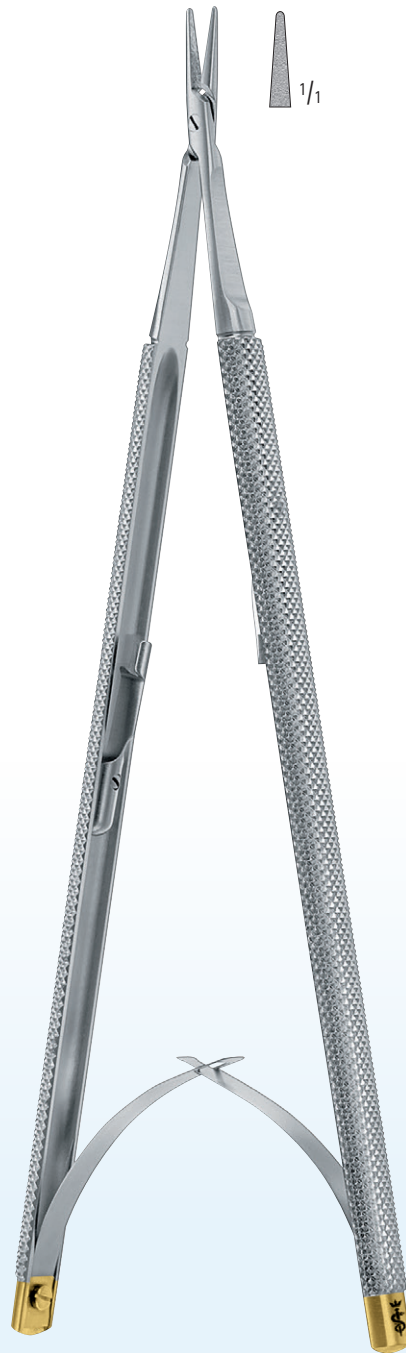
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



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"

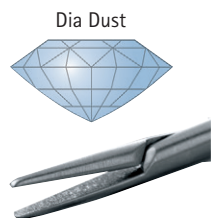


FM276R

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



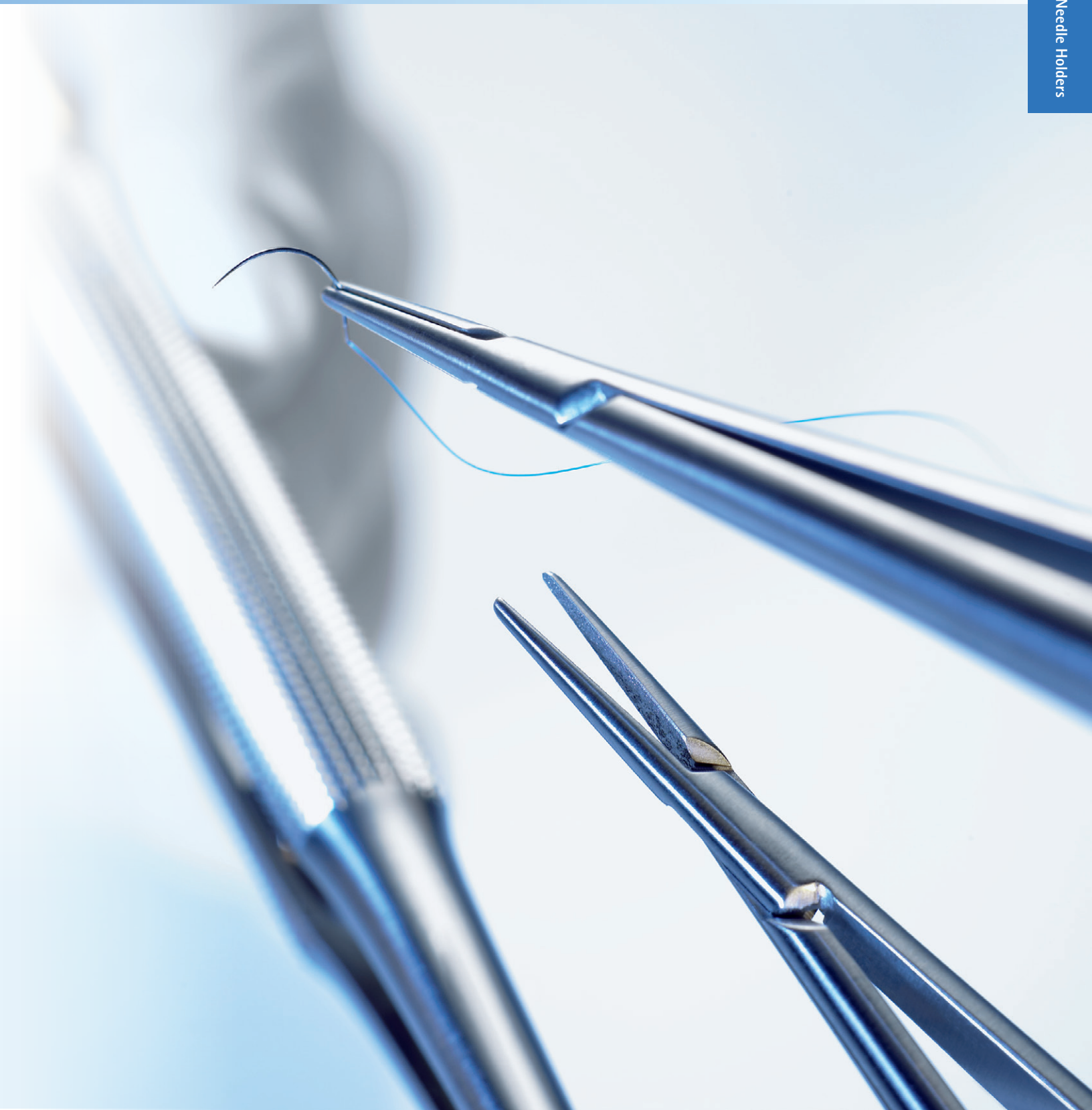
The diamond dust coating ensures an even harder and more wear resistant surface on the inside of the jaws. The structure of the Dia Dust coating leads to a reliable grip for fine needles and sutures, as well as for tissue.



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"	

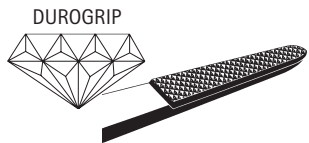
RYDER

BM301R-BM328R



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.



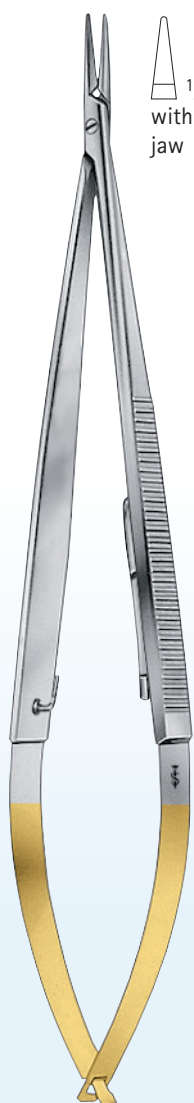
FM388R

With Catch
180 mm, 7"



FM390R

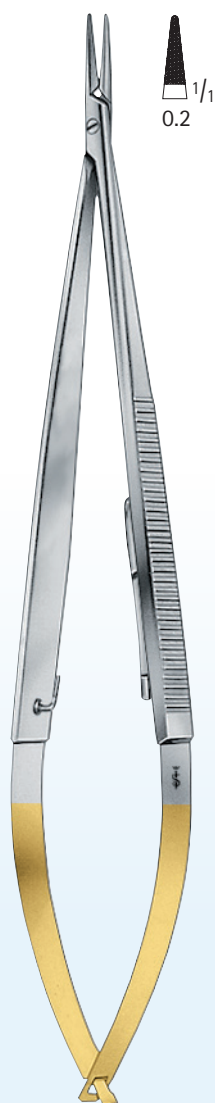
With Catch
200 mm, 8"



CASTROVIEJO

BM001R

145 mm, 5 3/4"



CASTROVIEJO

BM002R

145 mm, 5 3/4"



CASTROVIEJO

BM004R

180 mm, 7"



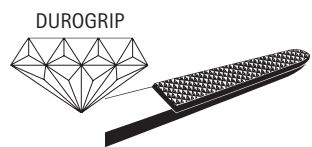
CASTROVIEJO

BM005R

215 mm, 8 1/2"

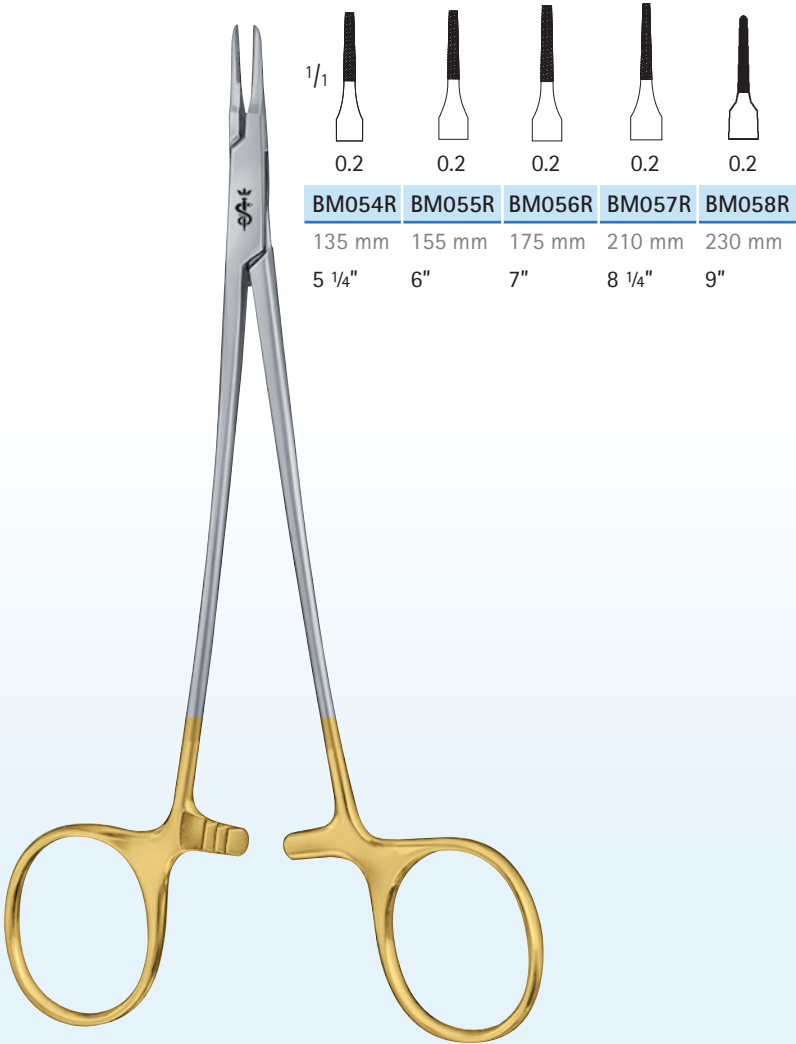
Instruments for Cardiac and Vascular Surgery

DUROGRIP™ Micro Needle Holders – RYDER

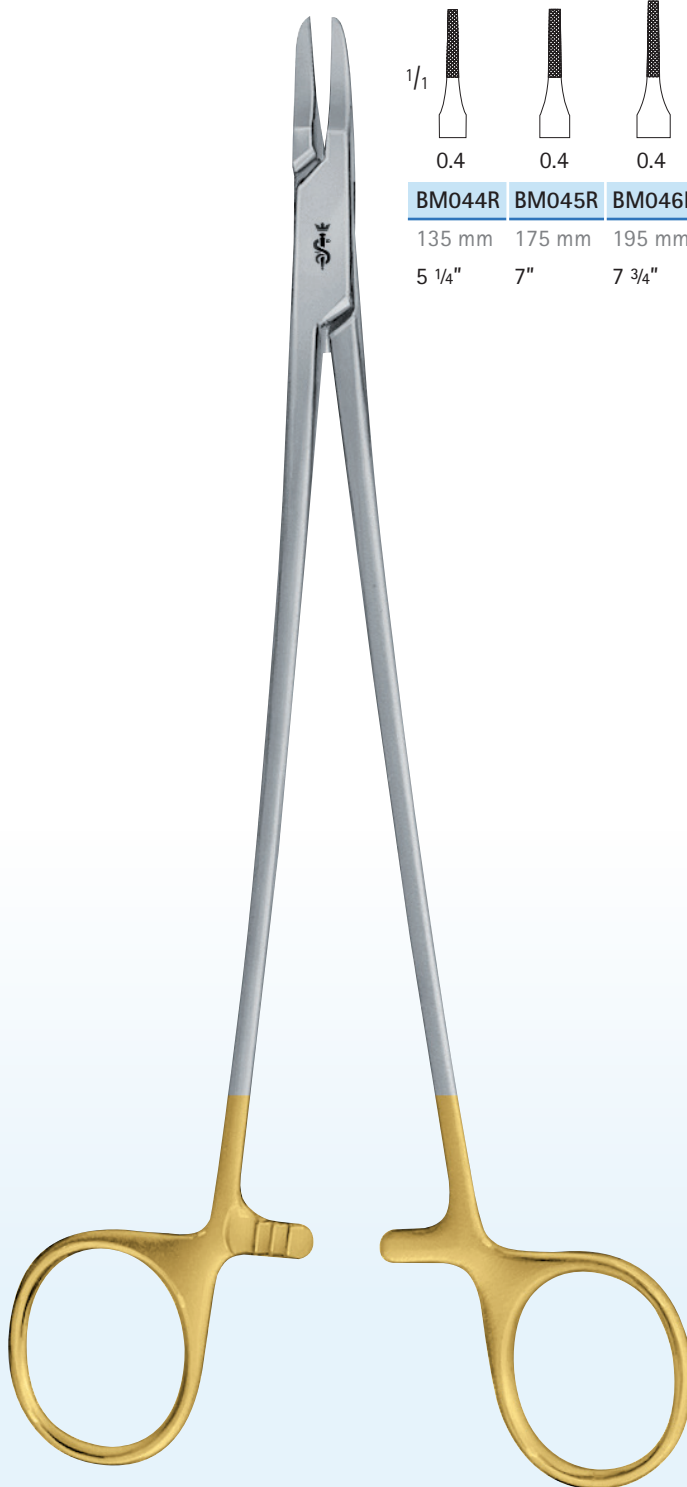


Aesculap needle holders have jaws with tungsten carbide inserts with a choice of structure depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material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



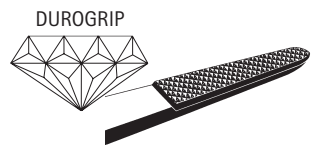
$\frac{1}{1}$				
0.4	0.4	0.4	0.4	0.4
BM044R	BM045R	BM046R	BM047R	
135 mm	175 mm	195 mm	265 mm	
5 $\frac{1}{4}$ "	7"	7 $\frac{3}{4}$ "	10 $\frac{1}{2}$ "	

RYDER

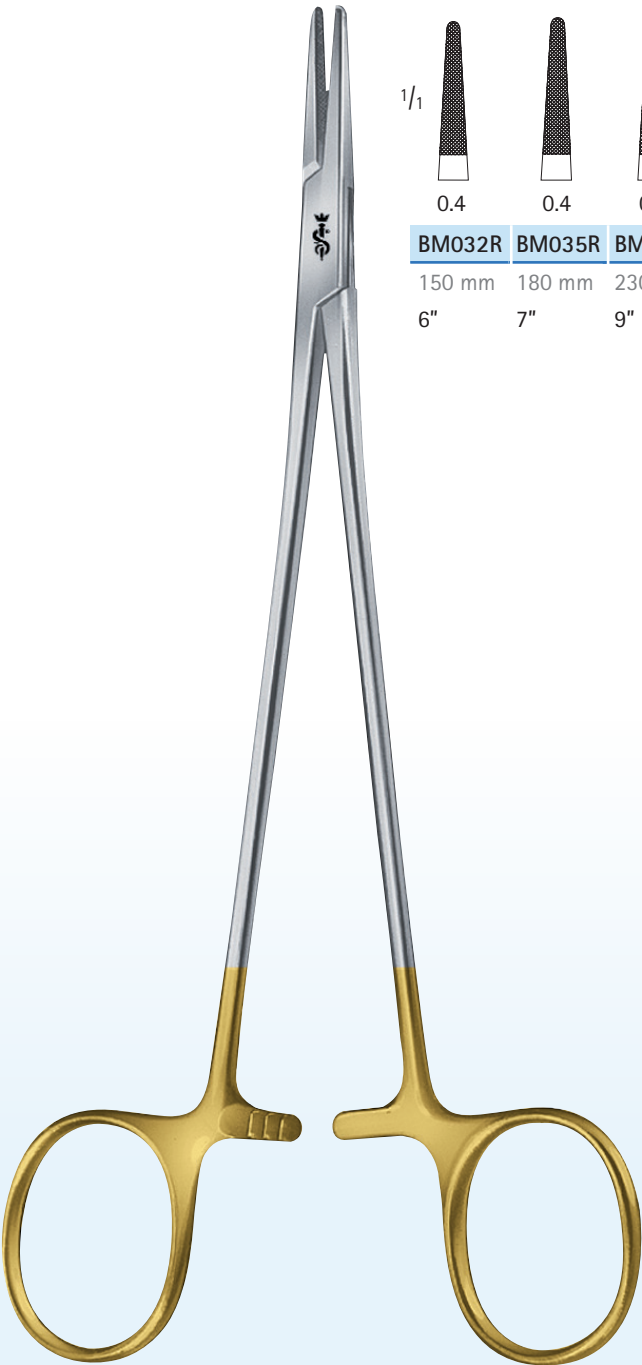
BM044R-BM047R






Instruments for Cardiac and Vascular Surgery

DUROGRIP™ Micro Needle Holders

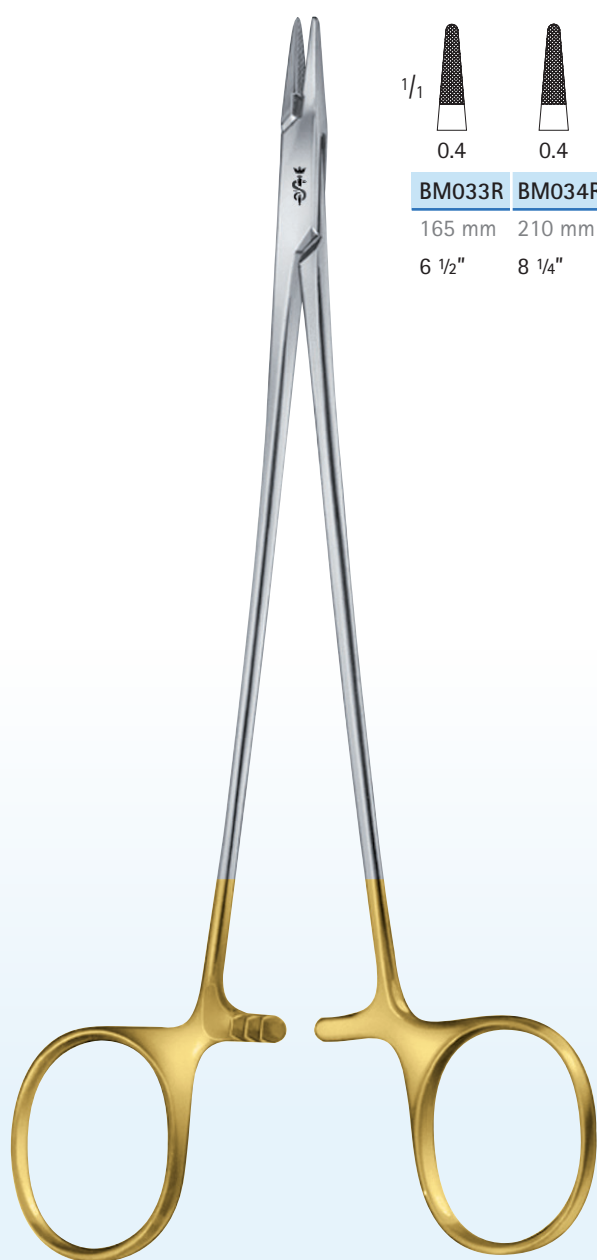


Aesculap needle holders have jaws with tungsten carbide inserts with a choice of structure depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material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



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

DE BAKEY
BM032R-BM038R

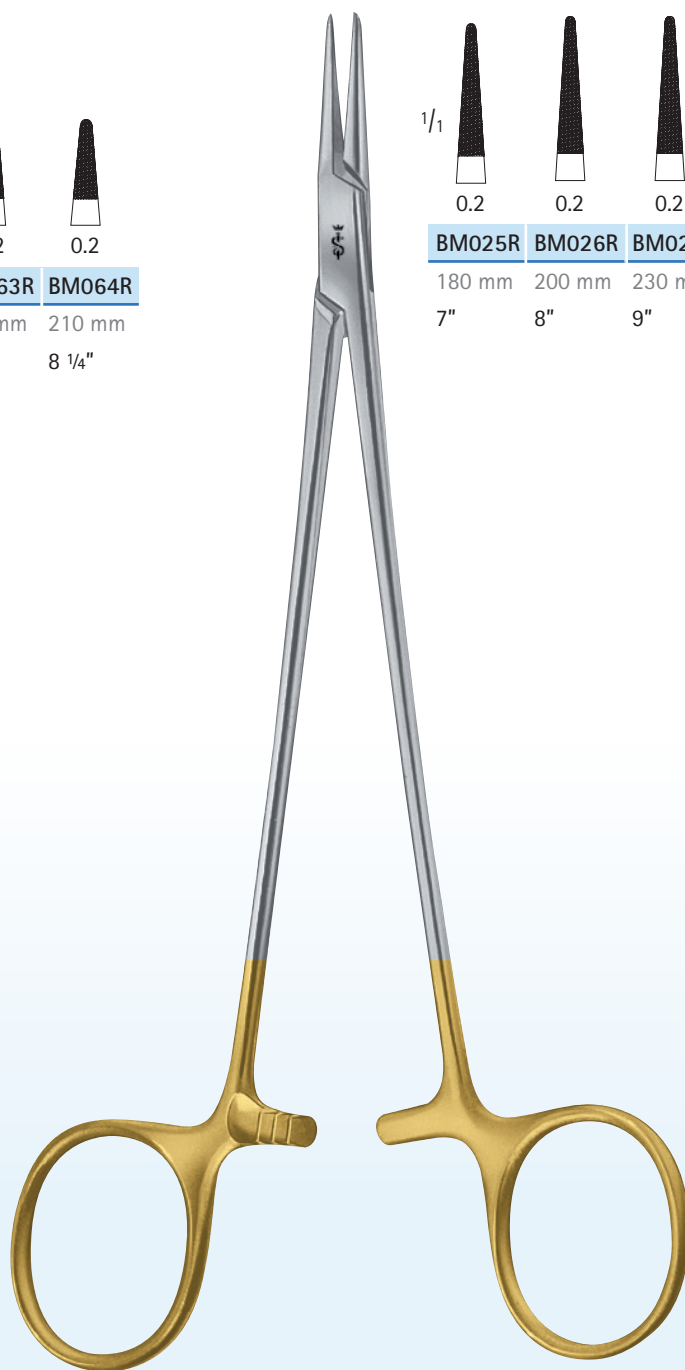


DE BAKEY

BM033R-BM064R

Very Delicate

$\frac{1}{1}$				
	0.4	0.4	0.2	0.2
	BM033R	BM034R	BM063R	BM064R
	165 mm	210 mm	165 mm	210 mm
	6 1/2"	8 1/4"	6 1/2"	8 1/4"



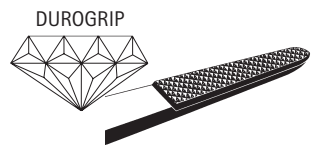
$\frac{1}{1}$			
	0.2	0.2	0.2
	BM025R	BM026R	BM027R
	180 mm	200 mm	230 mm
	7"	8"	9"

BM025R-BM027R




Very Delicate

Instruments for Cardiac and Vascular Surgery

DUROGRIP™ Micro Needle Holders

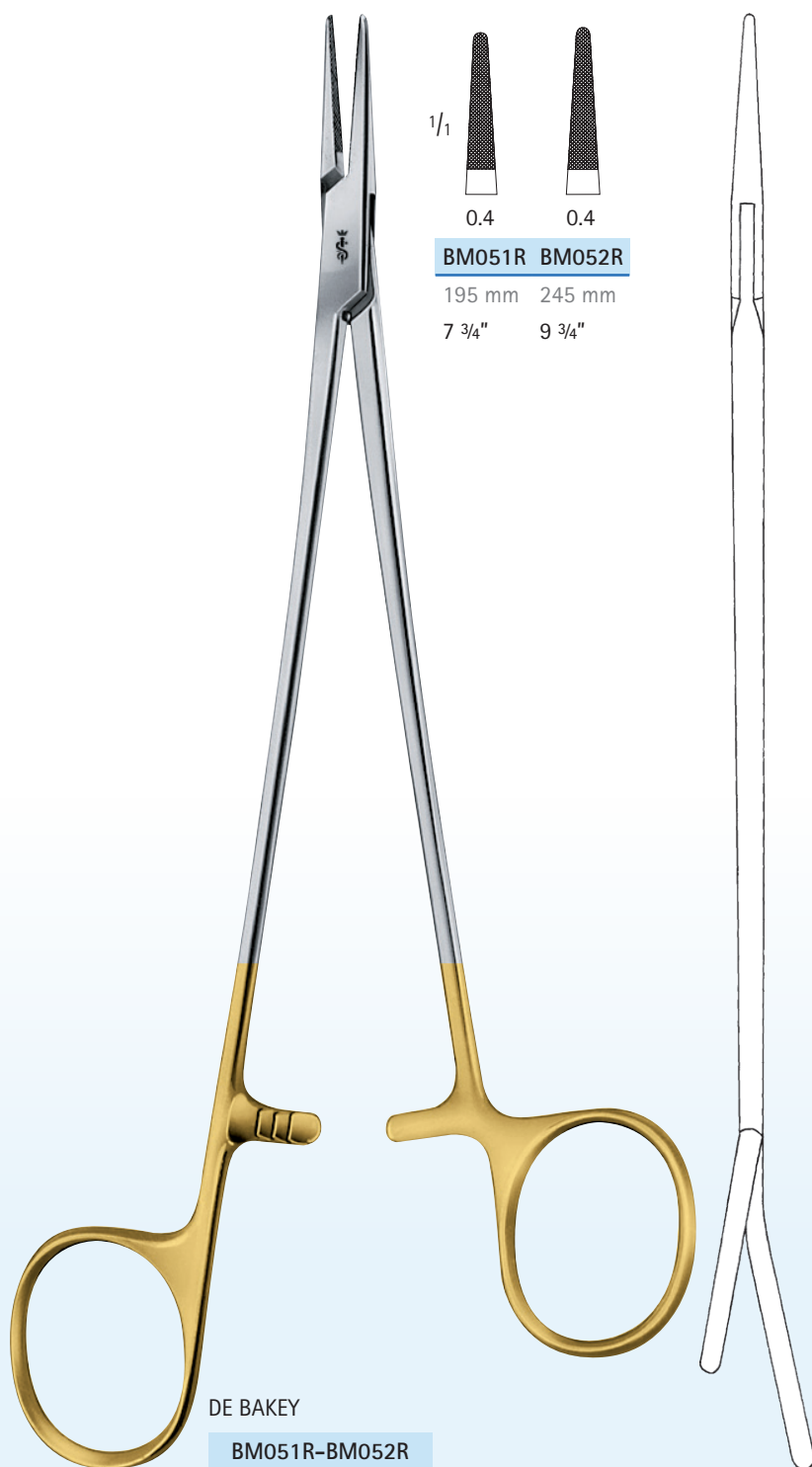


Aesculap needle holders have jaws with tungsten carbide inserts with a choice of structure depending on the application. A smooth jaw surface as well as a 0.2 mm micro serration leads to a safe hold on the needle. We recommend tungsten carbide inserts with a smooth jaw surface for micro suture material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

		
BM074R	BM075R	BM076R
150 mm	180 mm	230 mm
6"	7"	9"



RYDER
BM074R-BM076R
Smooth Jaws



DE BAKEY

BM051R-BM052R

One Extended Handle and Curved Rings Ensure Optimum Grip



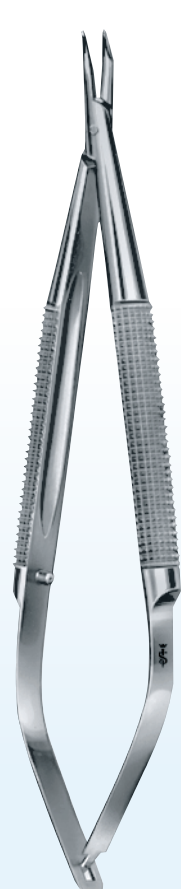
DE BAKEY

BM040R

Slender Pattern
305 mm, 12"

Instruments for Cardiac and Vascular Surgery


STANDARD Micro Needle Holders with Round Handle



BM562R
120 mm
4 3/4"

BM560R
115 mm
4 1/2"


BARRAQUER
BM560R-BM562R
Without Catch



FD230R

FD231R


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



FD232R

FD233R

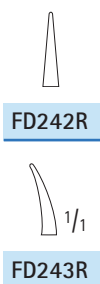
BARRAQUER
FD232R-FD233R
With Catch
120 mm, 4 3/4"



FD240R

FD241R

REILL
FD240R-FD241R
Without Catch
150 mm, 6"



FD242R

FD243R

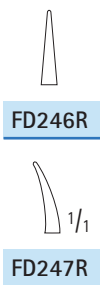
FD242R-FD243R
With Catch
150 mm, 6"



FD244R

FD245R

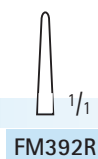
FD244R-FD245R
Without Catch



FD246R

FD247R

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

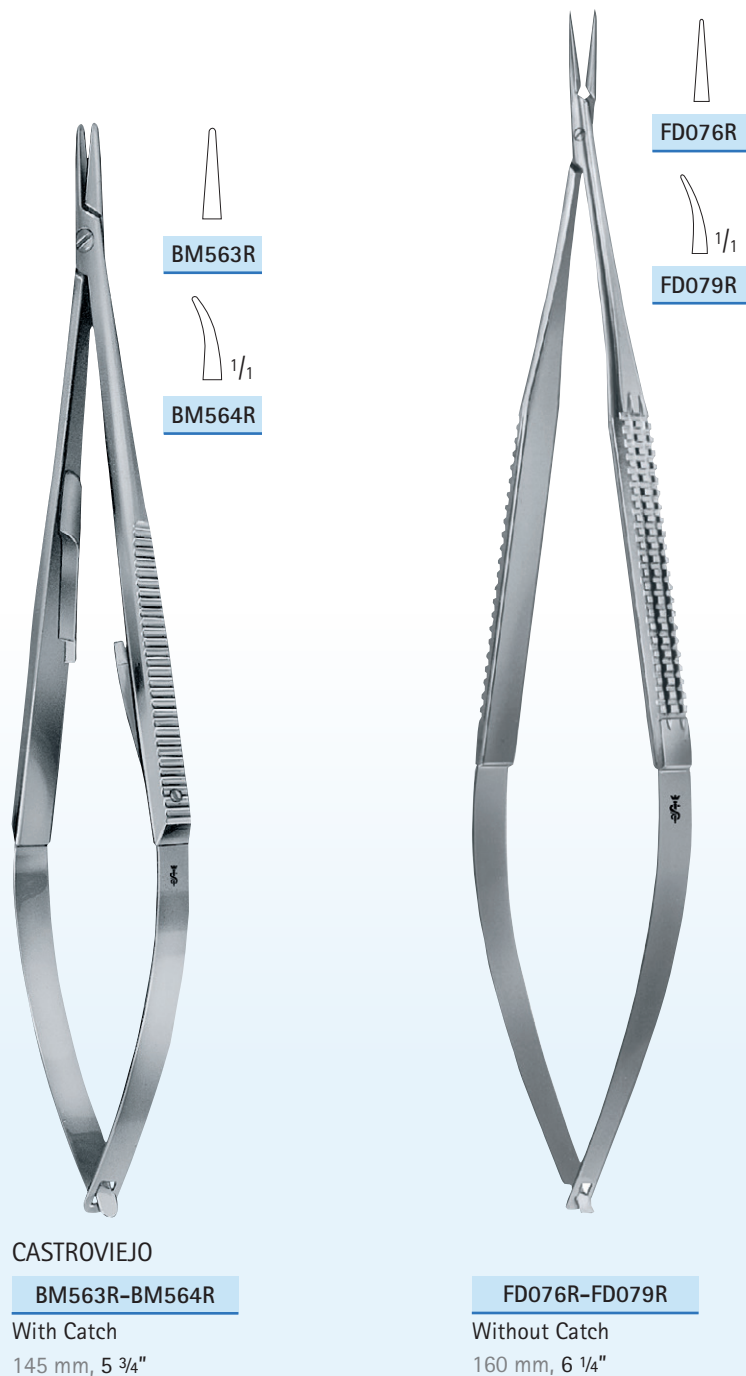


FM392R

FM392R
With Catch
228 mm, 9"

Instruments for Cardiac and Vascular Surgery

STANDARD Micro Needle Holders with Flat Handle





FD080R-FD081R

Without Catch
185 mm, 7 1/4"



JACOBSON

FD045R-FD046R

185 mm, 7 3/4"



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

			
		Suture Size	
With Ratchet	Total Length	7/0 and Smaller	5/0 and Smaller
	185 mm 7 1/4"	FM258T	FM238T
	210 mm 8 1/4"	FM259T	FM239T
	230 mm 9"	FM260T	FM240T
Without Ratchet	Total Length	7/0 and Smaller	5/0 and Smaller
	185 mm 7 1/4"	FM252T	FM232T
	210 mm 8 1/4"	FM253T	FM233T
	230 mm 9"	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.



FM232T
185 mm, 7 1/4"








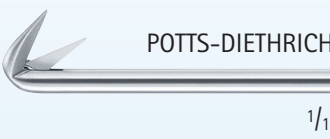
FM233T
210 mm, 8 1/4"



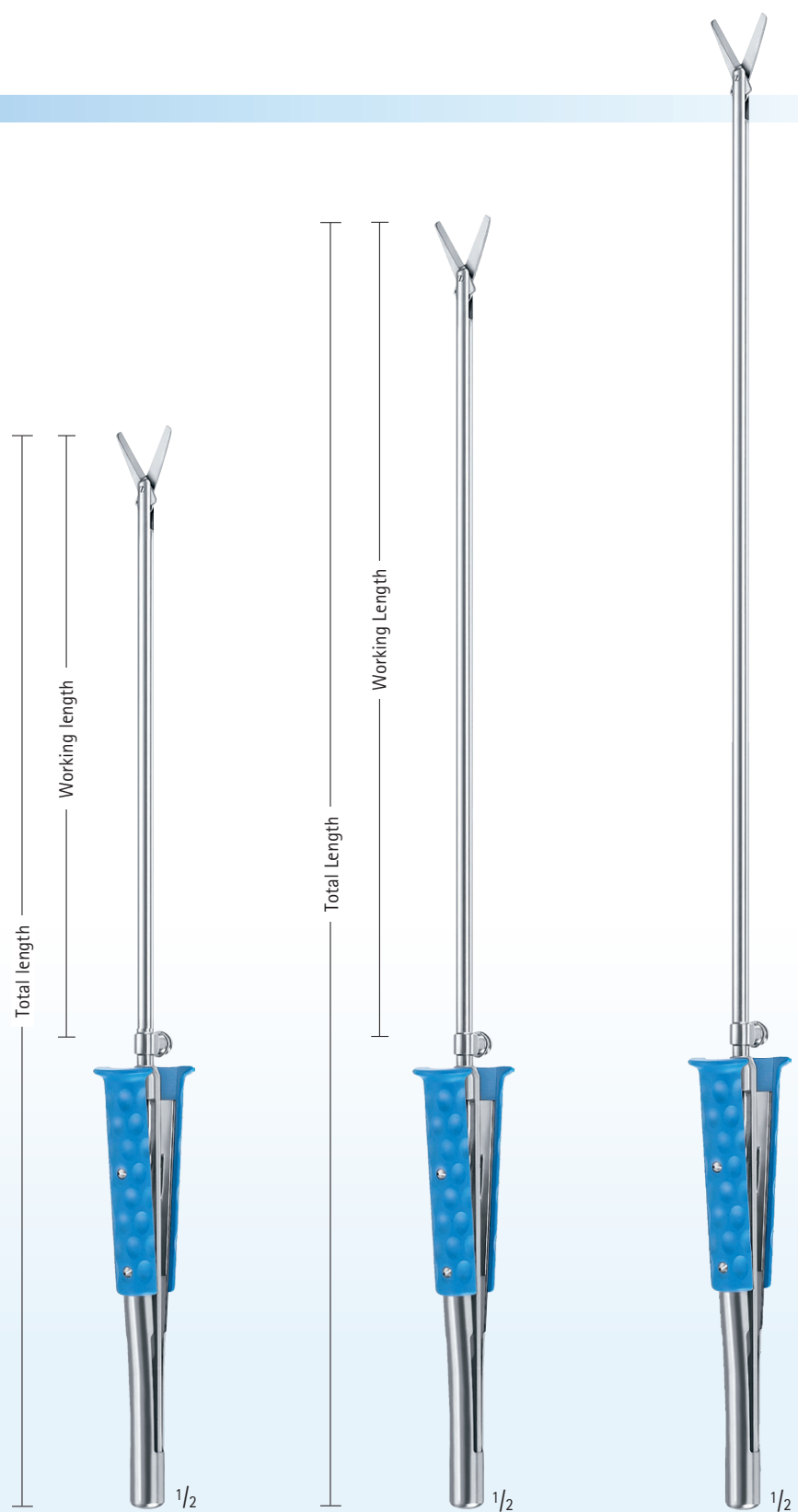
FM234T
230 mm, 9"

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)
 1/1 POTTS-DIETRICH	FC474R	Short	45° Angled, Single Action	6 ¹ / ₈ " (155 mm)	11 ⁵ / ₈ " (295 mm)
	FC269R	Standard		8 ¹ / ₄ " (210 mm)	14" (355 mm)
	FC374R	Long		10 ¹ / ₄ " (260 mm)	16" (405 mm)
 1/1 POTTS-DIETRICH	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

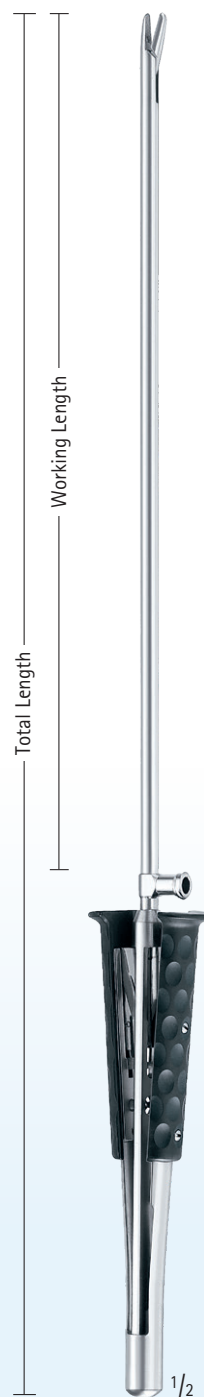
	Item No.	Version	Jaw Type	Recommended Suture Size	Working Length	Total Length	
 1/1	FC478R	Short	Straight	2/0*	6 ³ / ₄ " (170 mm)	12" (305 mm)	
	FC275R	Standard			9" (225 mm)	14 ³ / ₈ " (365 mm)	
	FC378R	Long			10 ³ / ₄ " (275 mm)	16 ³ / ₈ " (415 mm)	
 1/1	FC479R	Short	Curved	2/0*	6 ³ / ₄ " (170 mm)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



1/1



1/1



1/1



1/1

RESANO Toothing



1/1



1/1



1/1

Suture Forceps

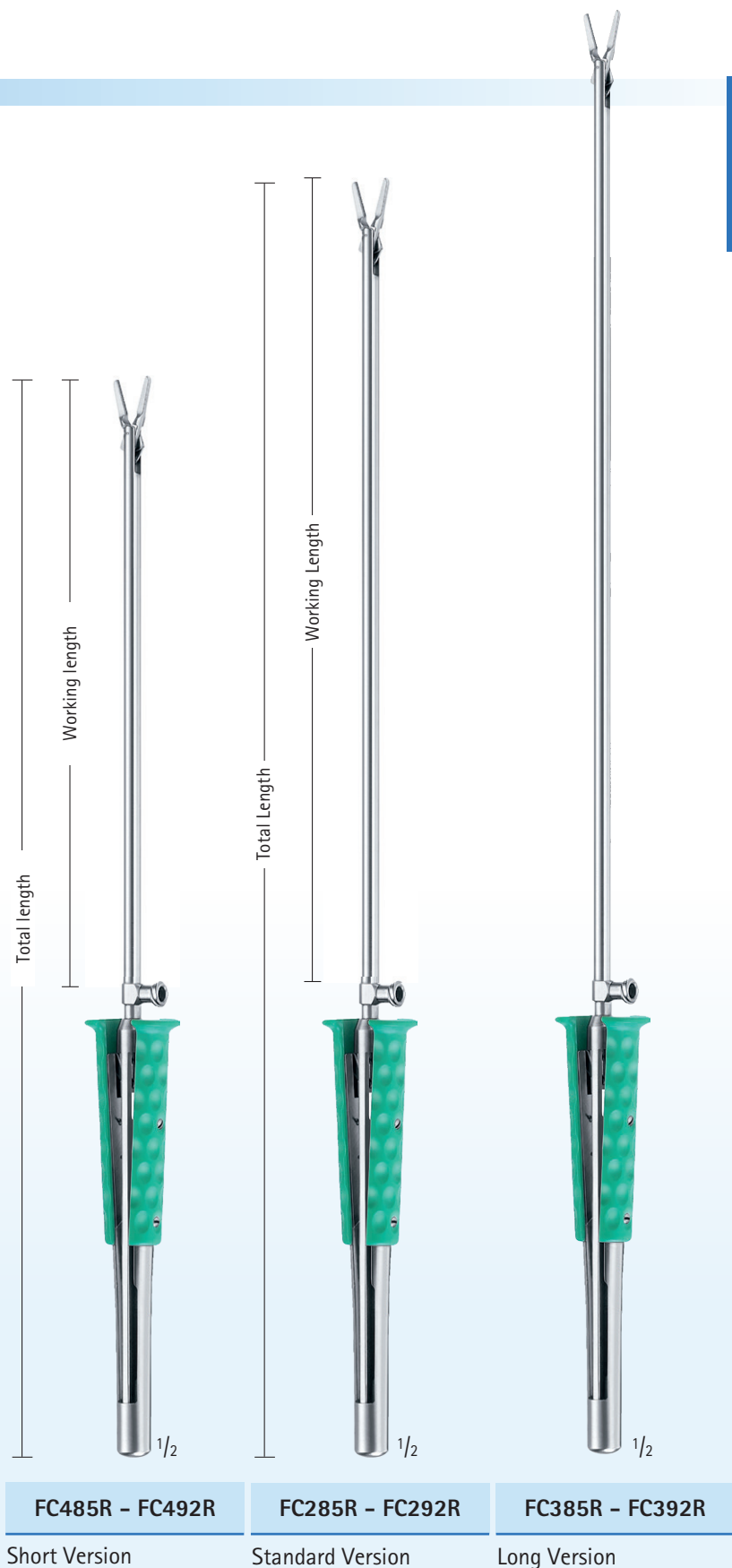


1/1

Knot Pusher

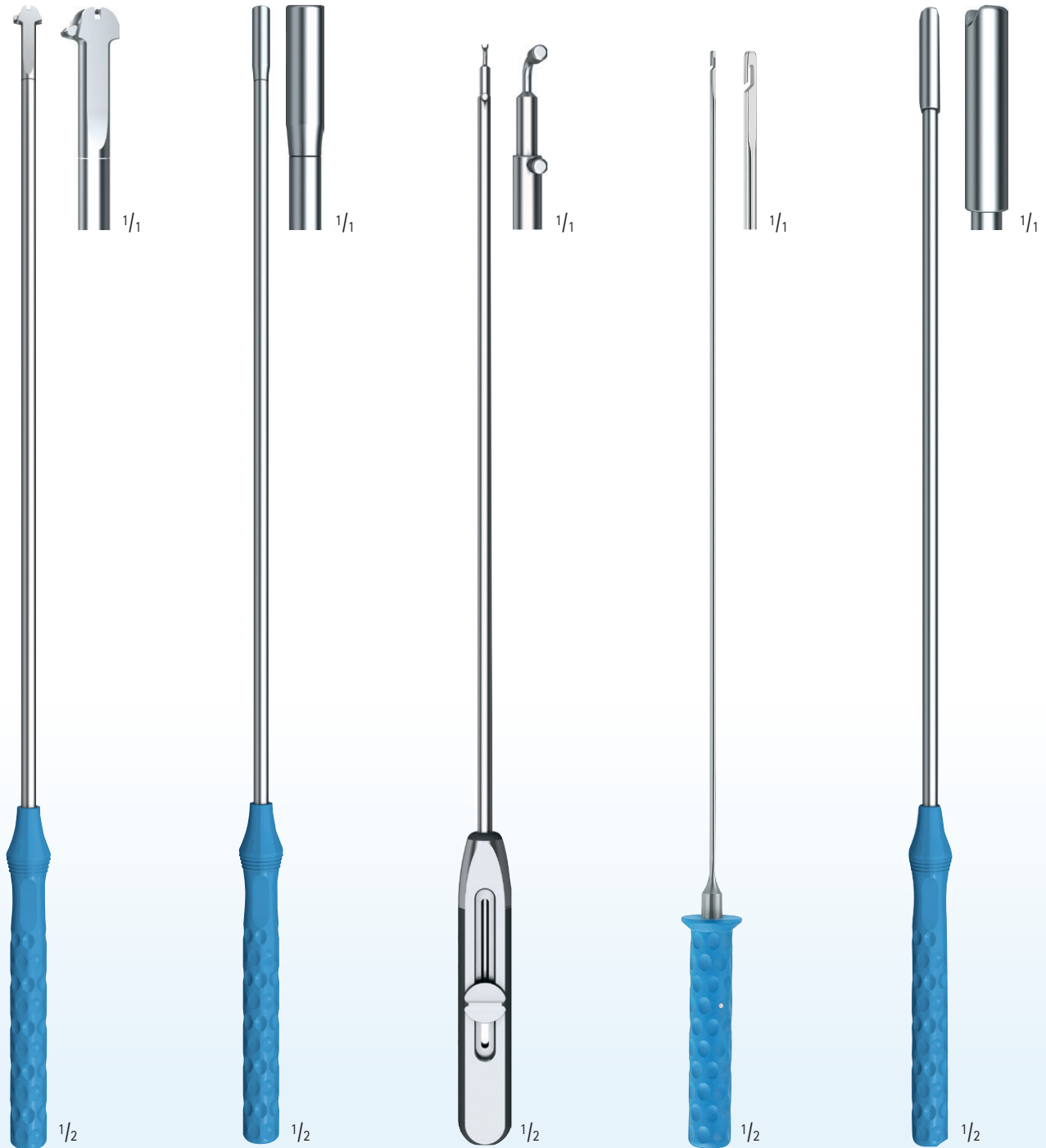
Item No.	Version	Jaw Type, Jaw Size	Working Length	
FC485R	Short	Straight, 1.5 x 11.0 mm Jaw Serration	7" (175 mm)	
FC285R	Standard		9" (230 mm)	
FC385R	Long		11" (280 mm)	
FC486R	Short	45° Upwards Angled, 1.5 x 15.0 mm Jaw Serration	6¾" (170 mm)	
FC286R	Standard		9" (230 mm)	
FC386R	Long		11" (280 mm)	
FC487R	Short	45° Angled to Side, 1.5 x 15.0 mm Jaw Serration	6¾" (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	6¾" (170 mm)	
FC290R	Standard		9" (230 mm)	
FC390R	Long		11" (280 mm)	
FC491R	Short	Straight, 8.0 mm Jaw	6¾" (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 $\frac{1}{4}$ " (310 mm) 14 $\frac{3}{8}$ " (365 mm) 16 $\frac{3}{8}$ " (415 mm)	5 mm	Double Action
12 $\frac{1}{4}$ " (310 mm) 14 $\frac{3}{8}$ " (365 mm) 16 $\frac{3}{8}$ " (415 mm)	5 mm	Single Action
12 $\frac{1}{4}$ " (310 mm) 14 $\frac{3}{8}$ " (365 mm) 16 $\frac{3}{8}$ " (415 mm)	5 mm	Single Action
12 $\frac{1}{4}$ " (310 mm) 14 $\frac{1}{2}$ " (370 mm) 16 $\frac{1}{2}$ " (420 mm)	5 mm	Single Action
12 $\frac{1}{4}$ " (310 mm) 14 $\frac{3}{8}$ " (365 mm) 16 $\frac{3}{8}$ " (415 mm)	5 mm	Double Action
12 $\frac{1}{4}$ " (310 mm) 14 $\frac{3}{8}$ " (365 mm) 16 $\frac{3}{8}$ " (415 mm)	3 mm 3.5 mm 3.5 mm	Double Action Malleable Shaft
12" (305 mm) 14 $\frac{3}{8}$ " (365 mm) 16 $\frac{3}{8}$ " (415 mm)	5 mm	Single Action with Tungsten Carbide Inserts
12 $\frac{1}{4}$ " (310 mm) 14 $\frac{1}{2}$ " (370 mm) 16 $\frac{1}{2}$ " (420 mm)	5 mm	Single Action



Instruments for Cardiac and Vascular Surgery

Valve XS Miscellaneous Instruments for Minimally Invasive Valve Surgery



FC355R

Knot Pusher

Total length 14½" (370 mm)

Working length 10¼" (260 mm)

FC356R

Magnetic Needle Finder

Total length 14½" (370 mm)

Working length 10¼" (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 10¼" (260 mm)

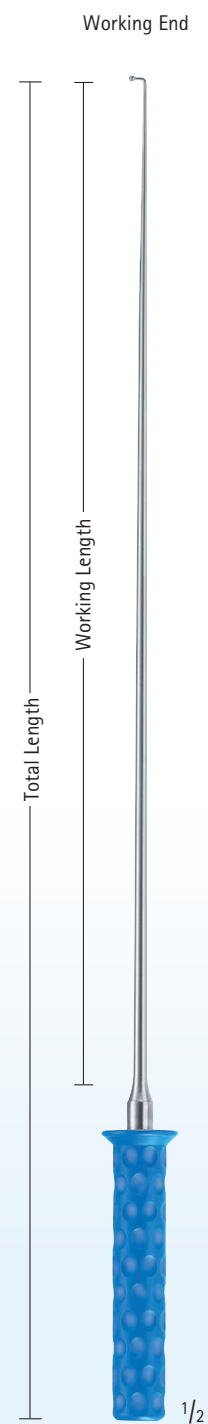
FC359R

Valve Pusher

Total length 14½" (370 mm)

Working length 10¼" (260 mm)

			
	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$
	FC350R	FC351R	FC352R
Working End	4.5 mm Probe Ended	5 mm	9 mm
Working Length	10 $\frac{1}{4}$ " (260 mm)	10 $\frac{1}{4}$ " (260 mm)	10 $\frac{1}{4}$ " (260 mm)
Total Length	13 $\frac{3}{4}$ " (350 mm)	13 $\frac{3}{4}$ " (350 mm)	13 $\frac{3}{4}$ " (350 mm)

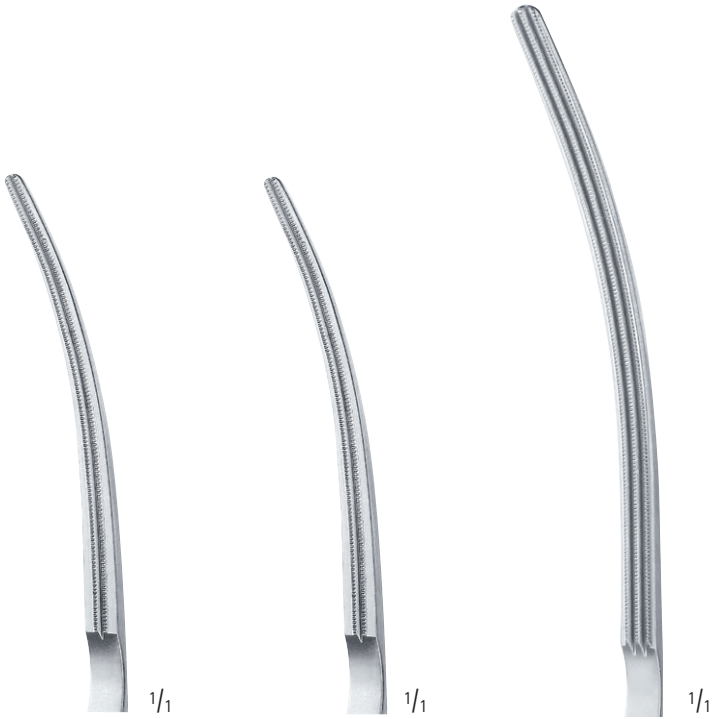


FC350R - FC352R
Nerve Hooks

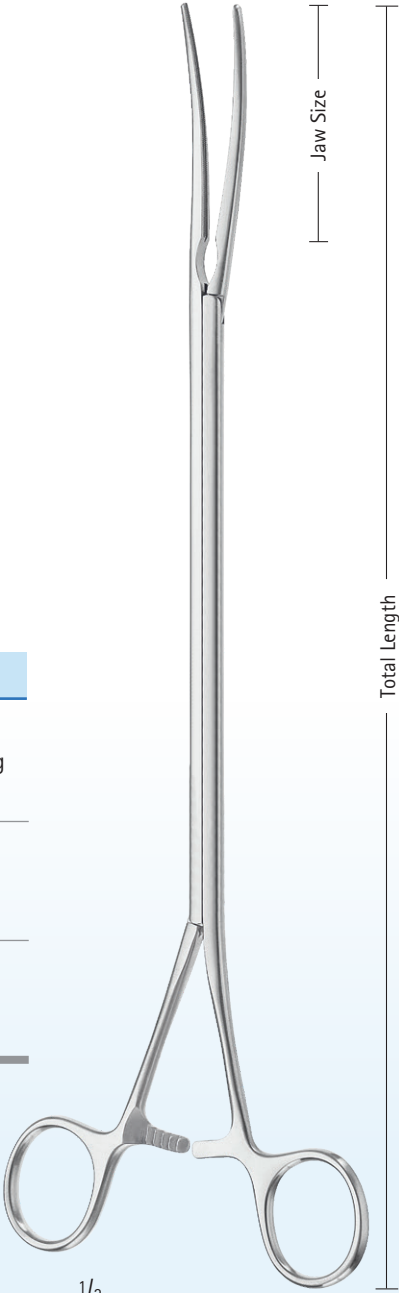
Instruments for Cardiac and Vascular Surgery

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)

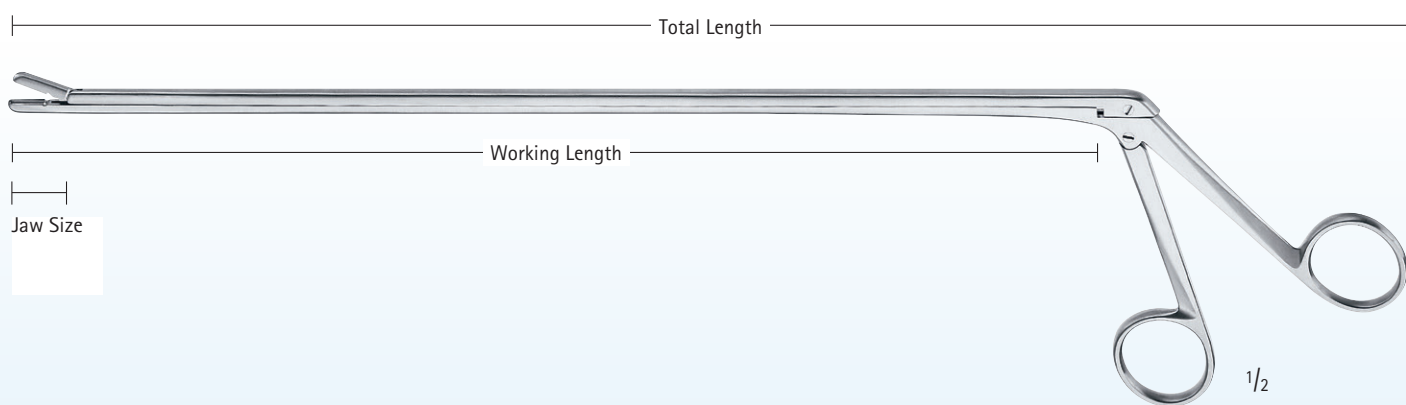


1/2

FC295R – FC297R

Rongeurs

	Item No.	Jaw Type	Jaw Size	Working Length	Total Length
 1/1	FC298R	Straight	3 x 10 mm	11½" (290 mm)	14½" (370 mm)
 1/1	FC299R	30° Upwards Angled	3 x 10 mm	11½" (290 mm)	14½" (370 mm)



FC298R - FC299R

Instruments for Cardiac and Vascular Surgery

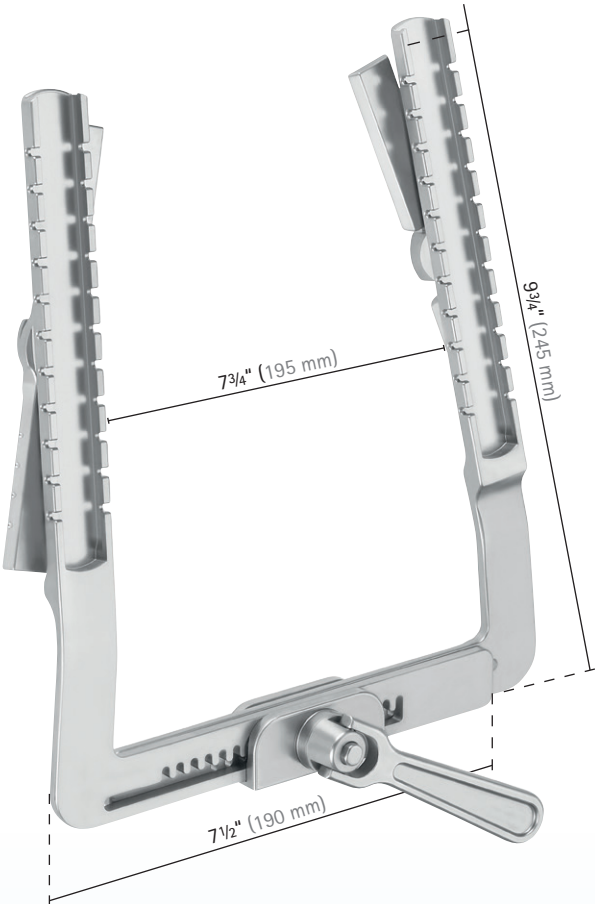
AtRactor Atraumatic Sternal Retractors

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

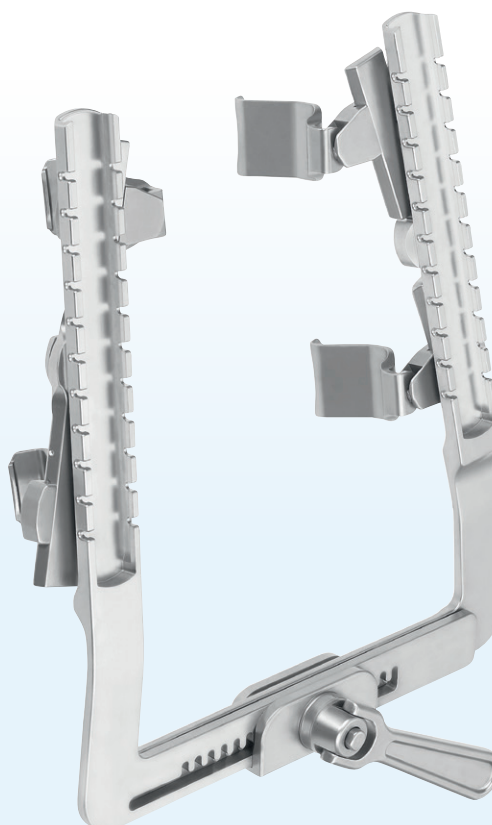
Basic Set Complete

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

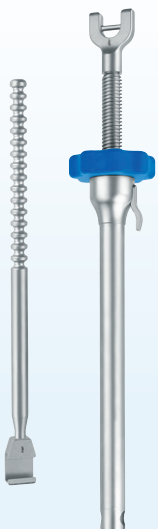
IMA Set Complete

FC510R

AtRactor IMA Set Complete

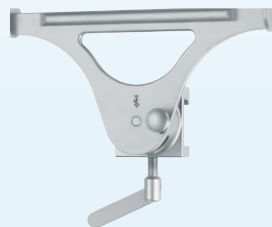
Set consisting of:

- 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

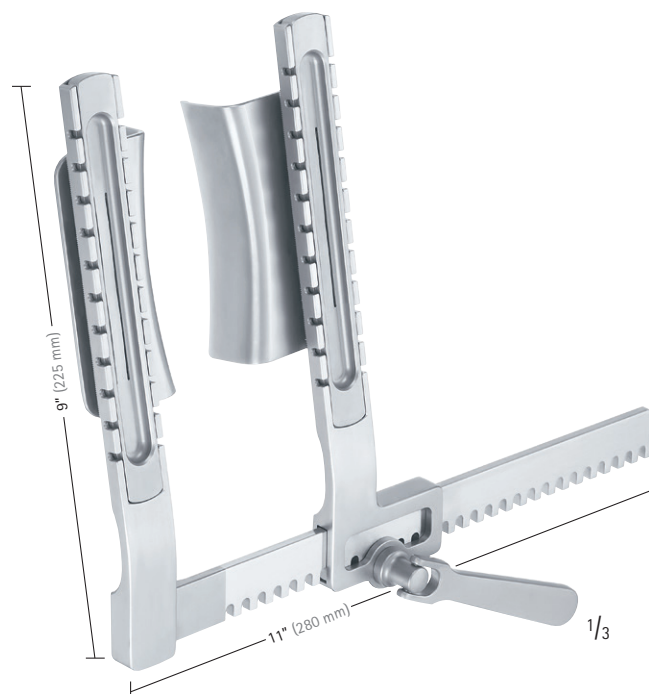
Set consisting of:

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:

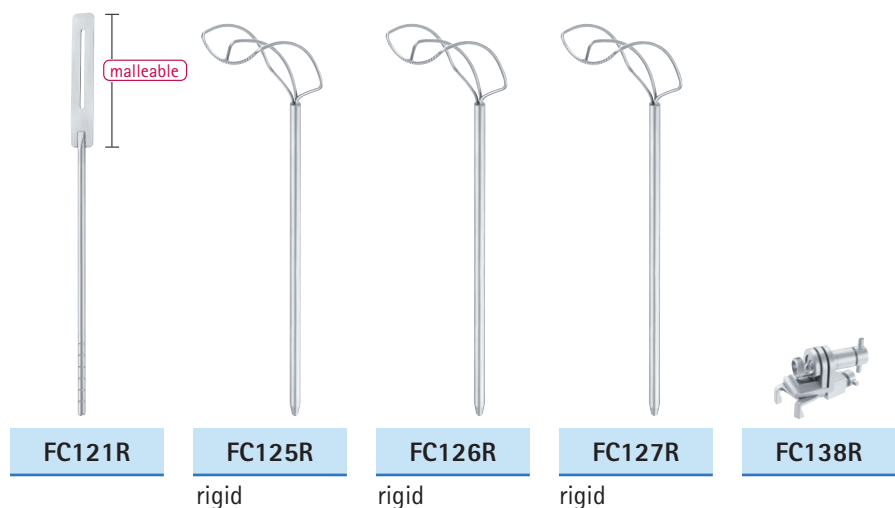
2 x FC121R

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

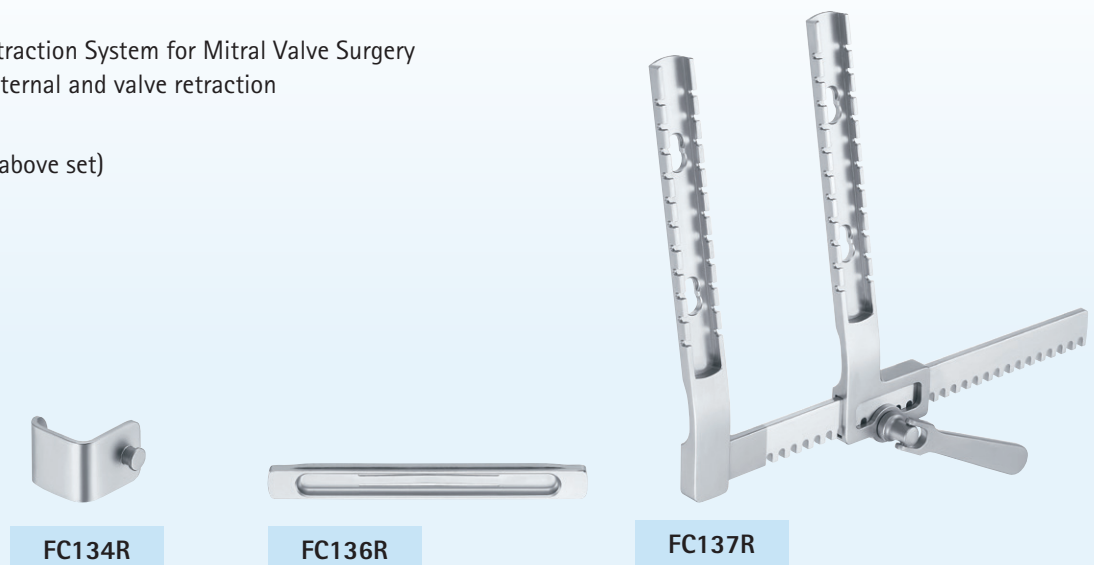
Set consisting of:

1 x MB756R (all items in the above set)

4 x FC134R

2 x FC136R

1 x FC137R

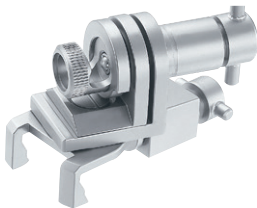
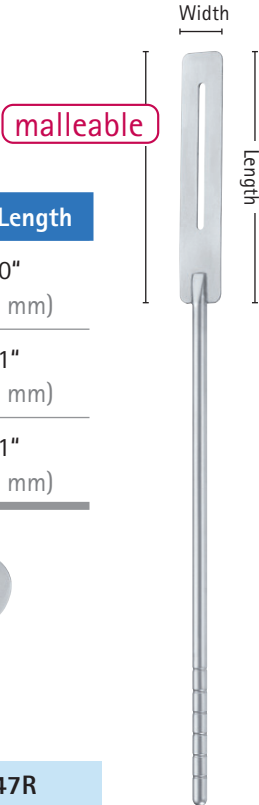


Optional Accessories for Heart XS and AtRactor Sternal Retractor

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)



FC138R

Heart XS Connecting
Clamp for Optional
Accessories



FC147R

Valve XS
Connecting Clamp



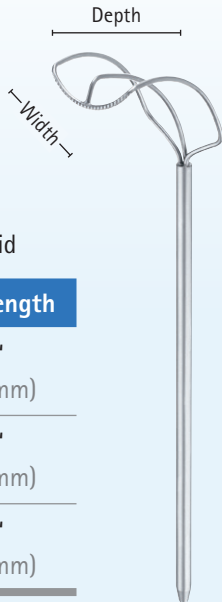
FC138R

Heart XS Hook Extension Bar

FC125R - FC127R

Heart XS COOLEY Atrium Retractor, Shaft: Rigid

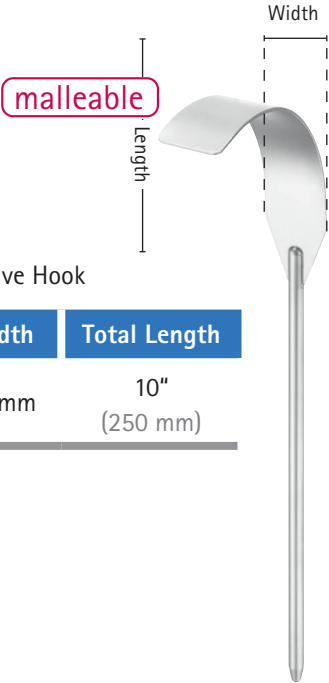
Item No.	Length	Width	Total Length
FC125R	60 mm	20 mm	10" (250 mm)
FC126R	60 mm	35 mm	10" (250 mm)
FC127R	60 mm	45 mm	10" (250 mm)



FC124R

Heart XS Malleable Deaver Valve Hook

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



FC135SU

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

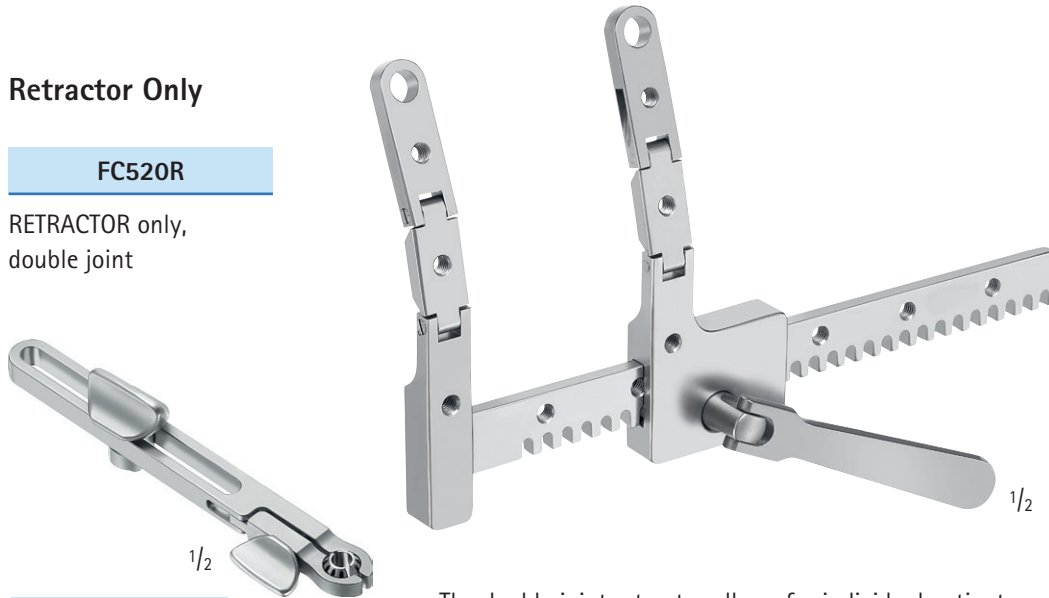
Instruments for Cardiac and Vascular Surgery

TAVI-MIDCAB Retraction System

Retractor Only

FC520R

RETRACTOR only,
double joint



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.

FC522R

MIDCAB Stabilizer



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

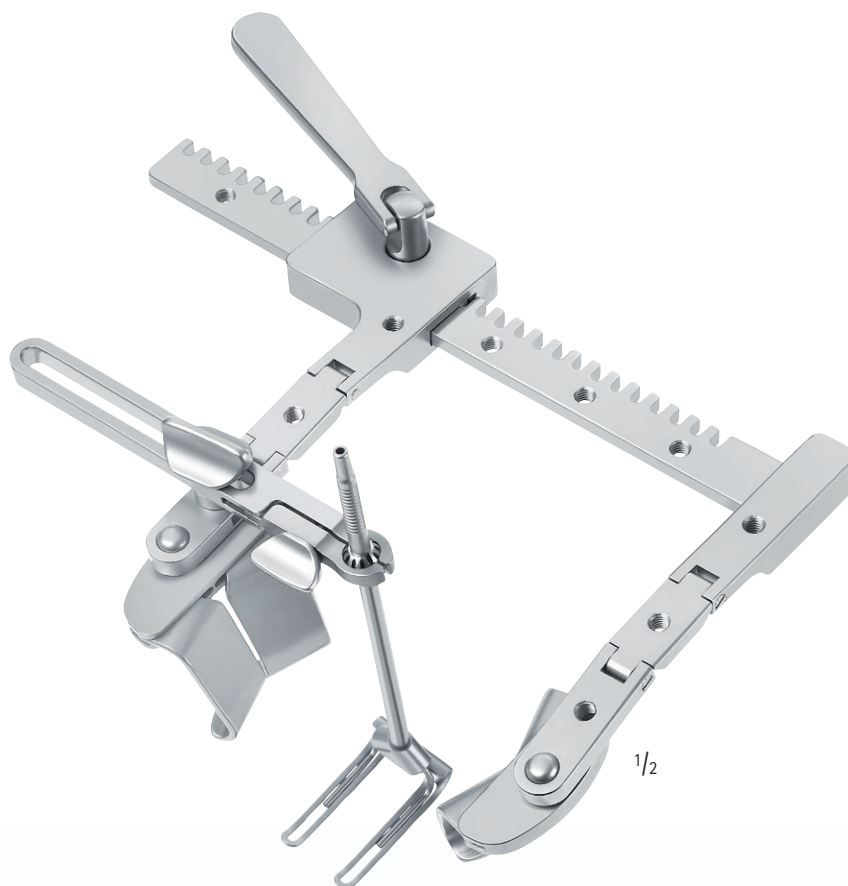
Set consisting of:

FC520R Retractor

FC521R MIDCAB Adapter

FC522R MIDCAB Stabilizer

FC530R–FC534R various double blades



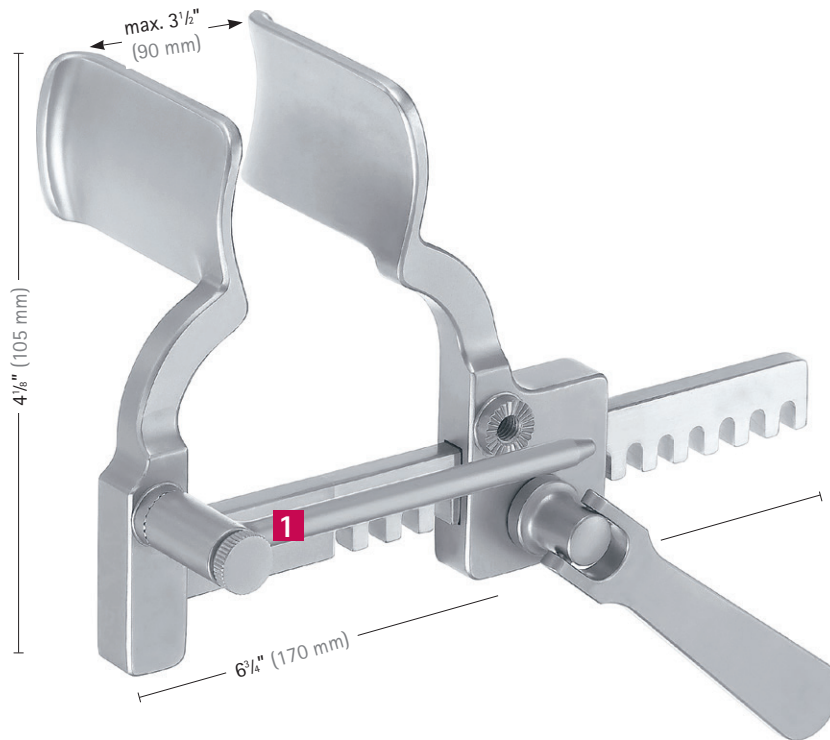
Features of the newly designed TAVI-MIDCAB retractor system:

- 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

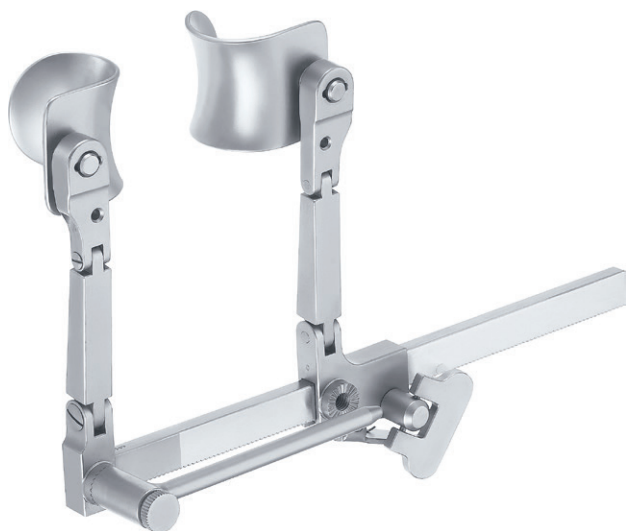


FC145R

Valve XS Rigid Retraction System
for Lateral Approach

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

1 Fixation Rod Removable

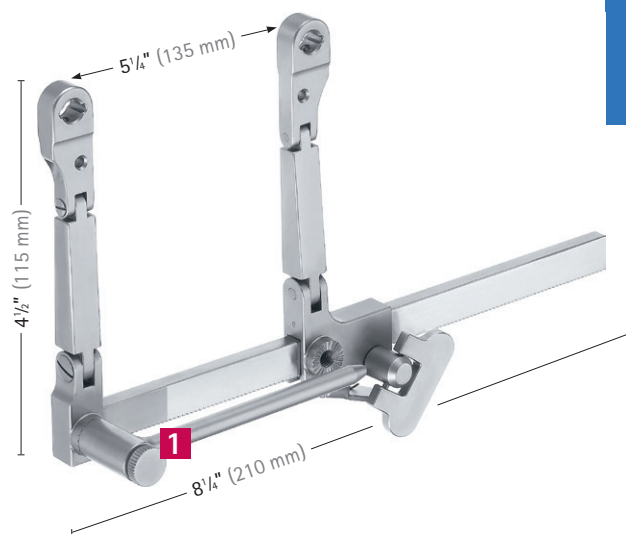
**FC140R**

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

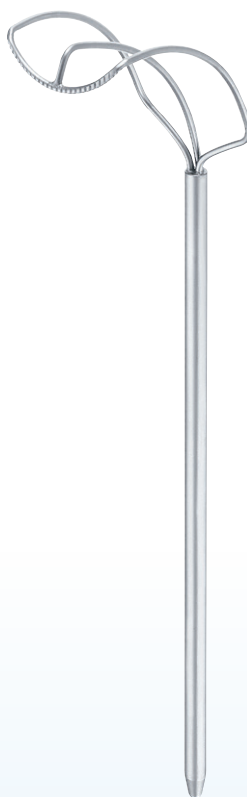
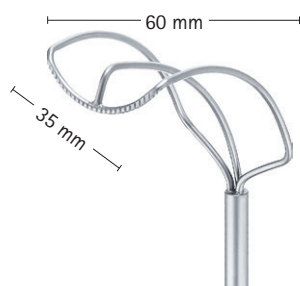


FC149R
Valve XS Connecting
Clamp Type D

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 mm	35 mm
FC425R	60 mm	35 mm
FC426R	70 mm	35 mm



Item No.	Height	Width
FC428R	50 mm	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 mm	20 mm
FC432R	25 mm	25 mm
FC433R	40 mm	25 mm



Item No.	Height	Width
FC434R	50 mm	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**



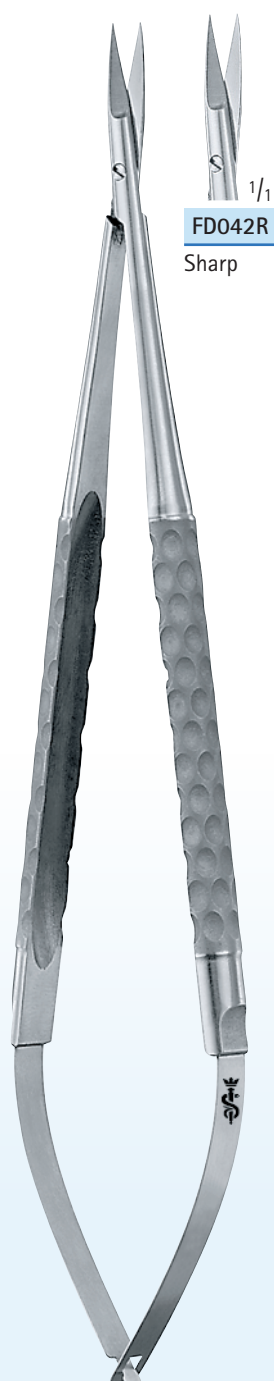
Mechanical Arm

Instruments for Cardiac and Vascular Surgery

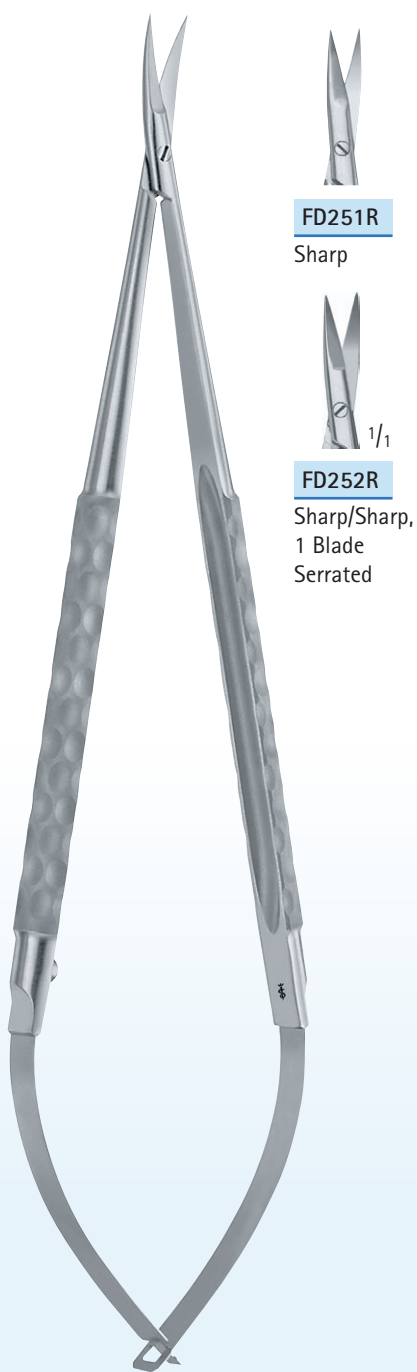
Shunt Operation Instruments

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.

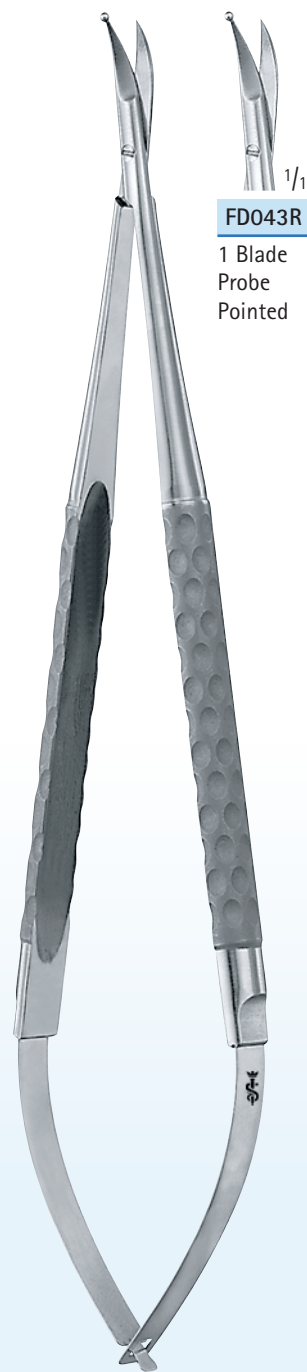
The shunt set was developed in cooperation with
Prof. Dr. med. Gottfried Müller, M.D.
Caritas Krankenhaus Bad Mergentheim
Uhlandstrasse 7
97980 Bad Mergentheim



FM042R
Micro Scissors
180 mm, 7"



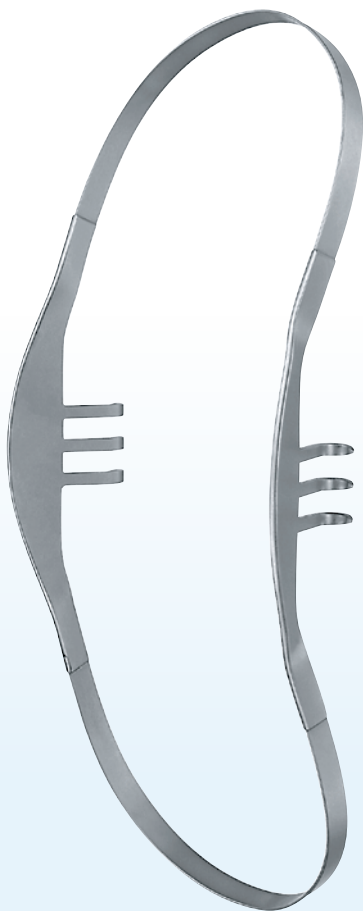
FD251R-FD252R
Micro Scissors
180 mm, 7"



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

Ring Diameter:
2 mm

FM047R

Micro Ring Forceps
180 mm, 7"



FD255R

FD255R
Micro Tissue Forceps
180 mm, 7"



1/1

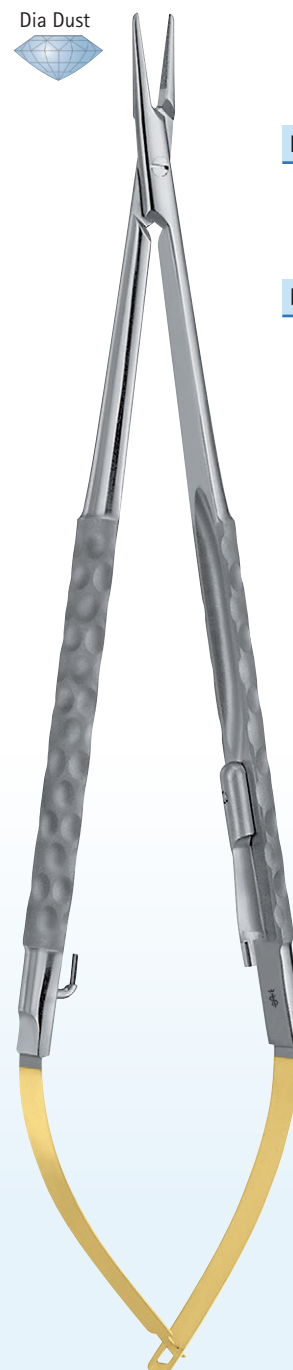


FD253R
Platform
Tip

FD253R
Micro Dissecting Forceps
180 mm, 7"



1/1



FD258R

FD259R

FD258R-FD259R
Micro Needle Holders
180 mm, 7"



1/1



1/1

Instruments for Cardiac and Vascular Surgery

Single-Use Microsurgery Scalpels



Micro Scalpel
with Polymer Handle
(Grey)

BA364

165 mm, 6 1/2"



Micro Scalpel
with Polymer Handle
(Yellow)

BA367

165 mm, 6 1/2"

Single use, sterile
packed, with light-
weight ergonomic
handle.
Sales Unit: PAC =
Package of 5 Pieces

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 3/4"



BB046R
135 mm, 5 1/2"



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"

1/1



FD396R
Short Ball Tip



FD397R
Ball Tip





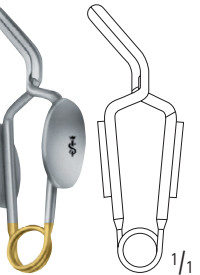


FD398R
Sharp



FD399R
Blunt

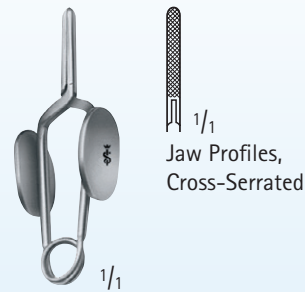
Vessel Clips

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



MÜLLER

FE005K

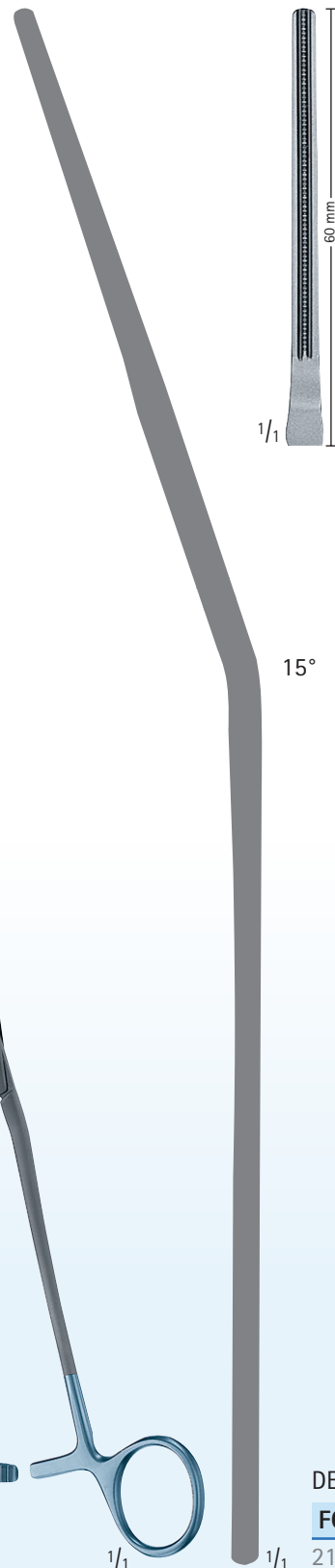
Ligature Forceps

Instruments for Cardiac and Vascular Surgery

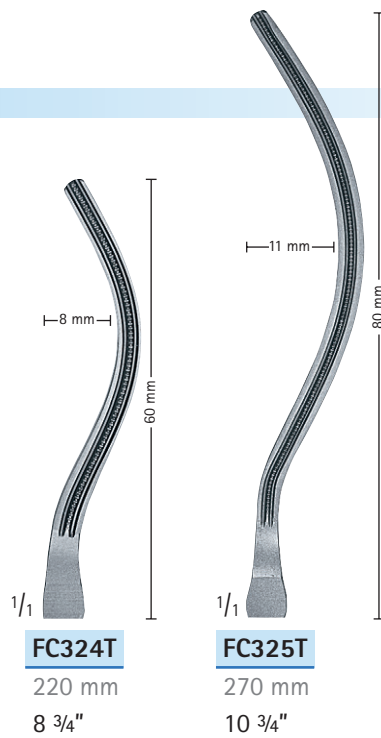
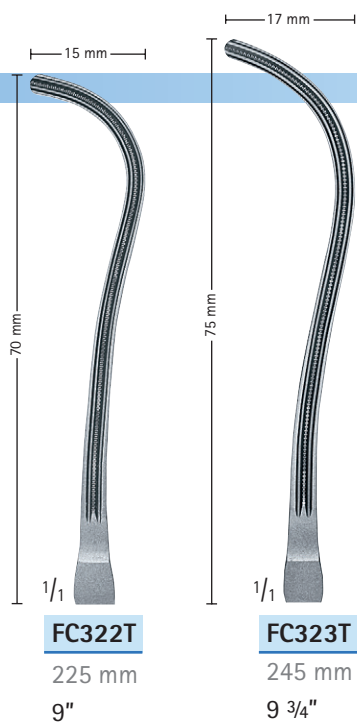
Titanium Vascular Clamps



DE BAKEY
FC320T
230 mm, 9"



DE BAKEY
FC321T
215 mm, 8 1/2"



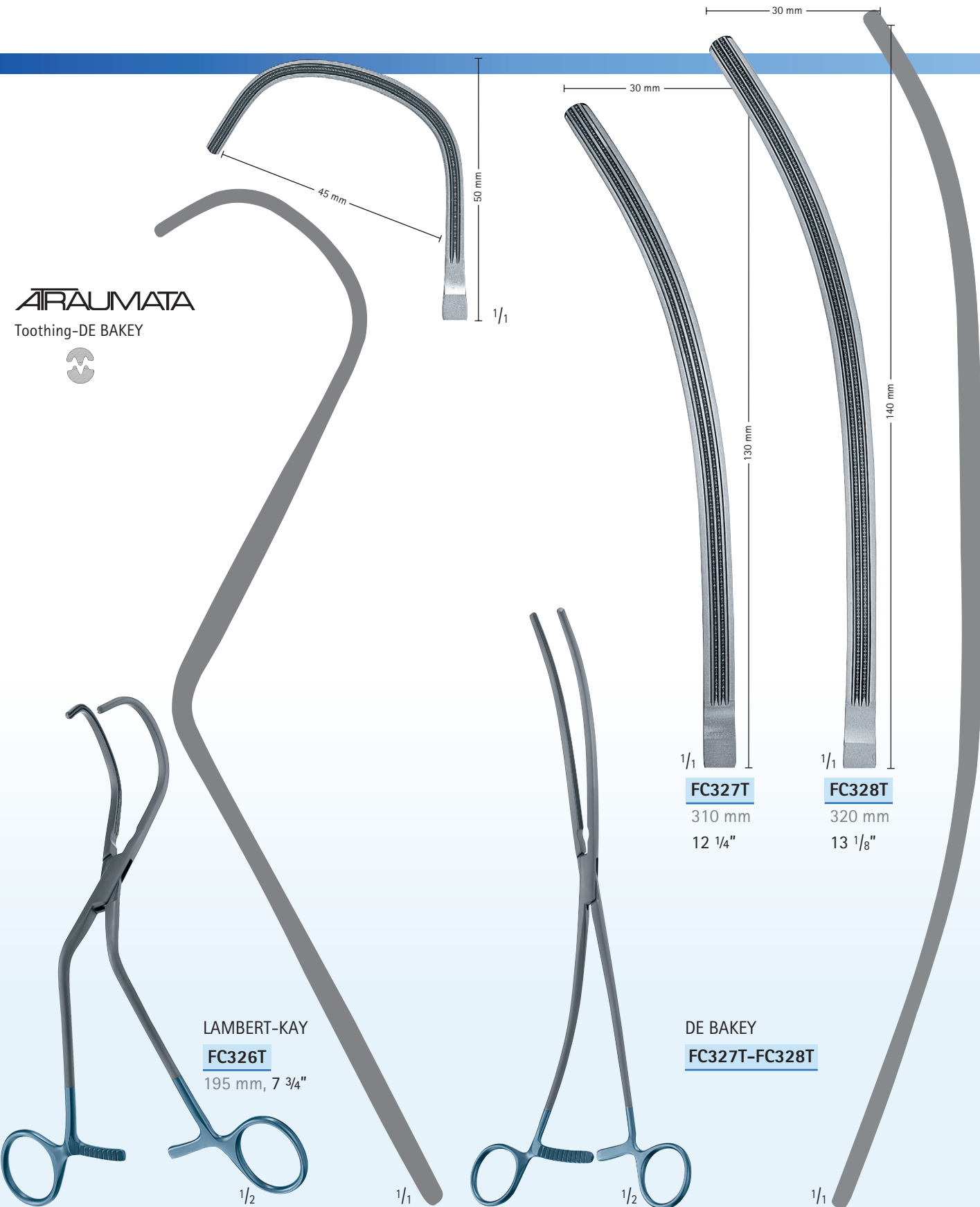
DE BAKEY
FC322T-FC323T

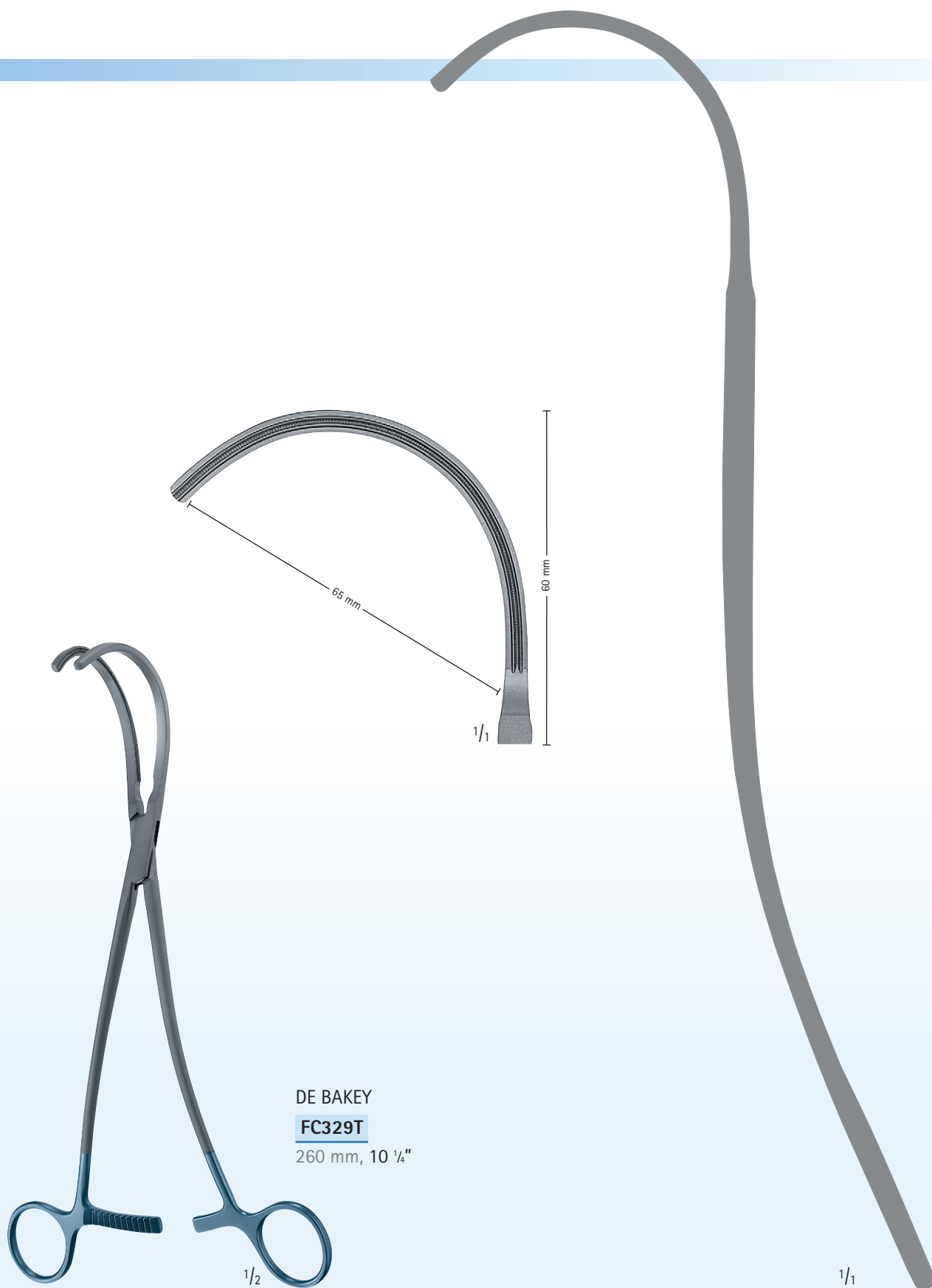


GLOVER
FC324T-FC325T

Instruments for Cardiac and Vascular Surgery

Titanium Vascular Clamps



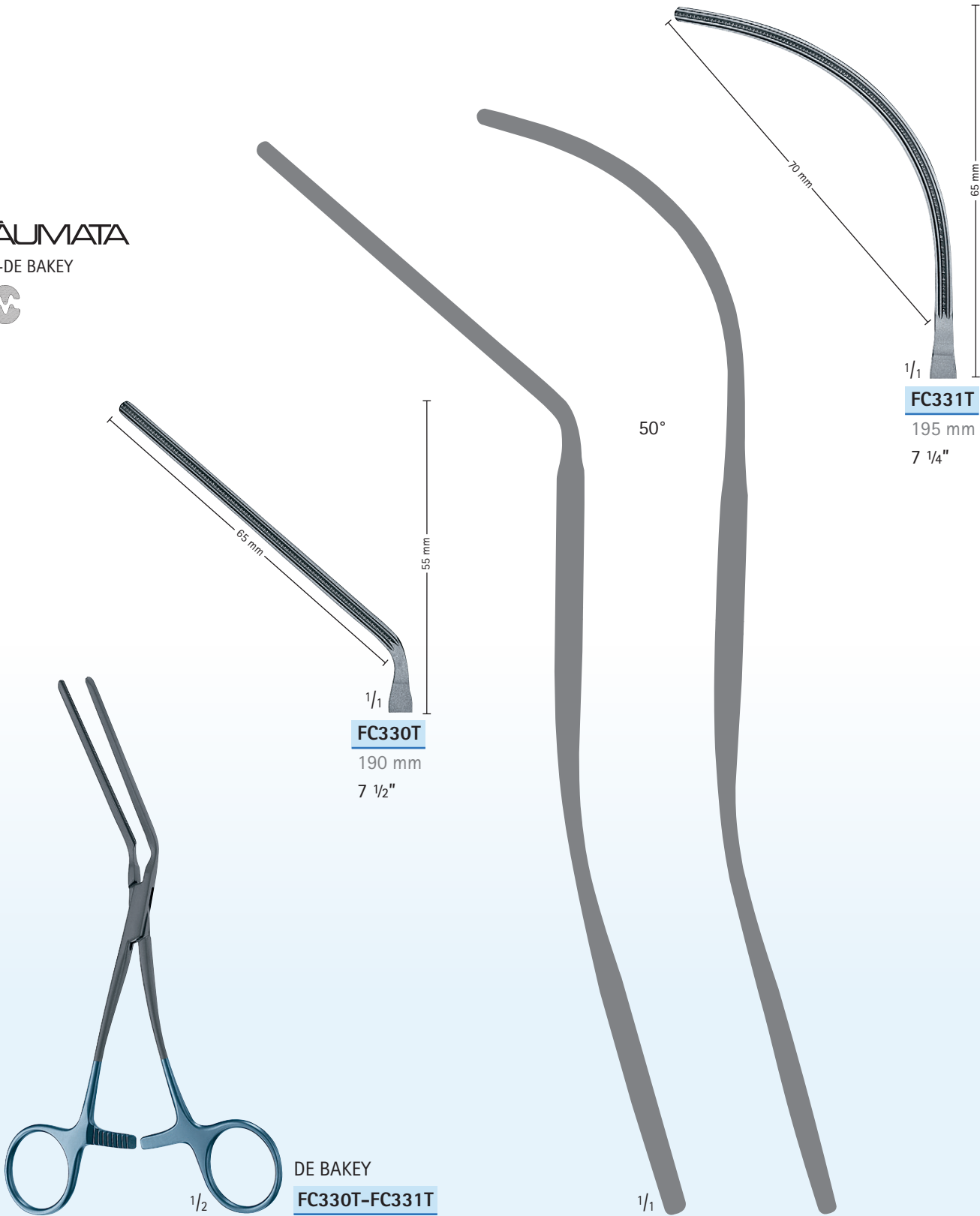


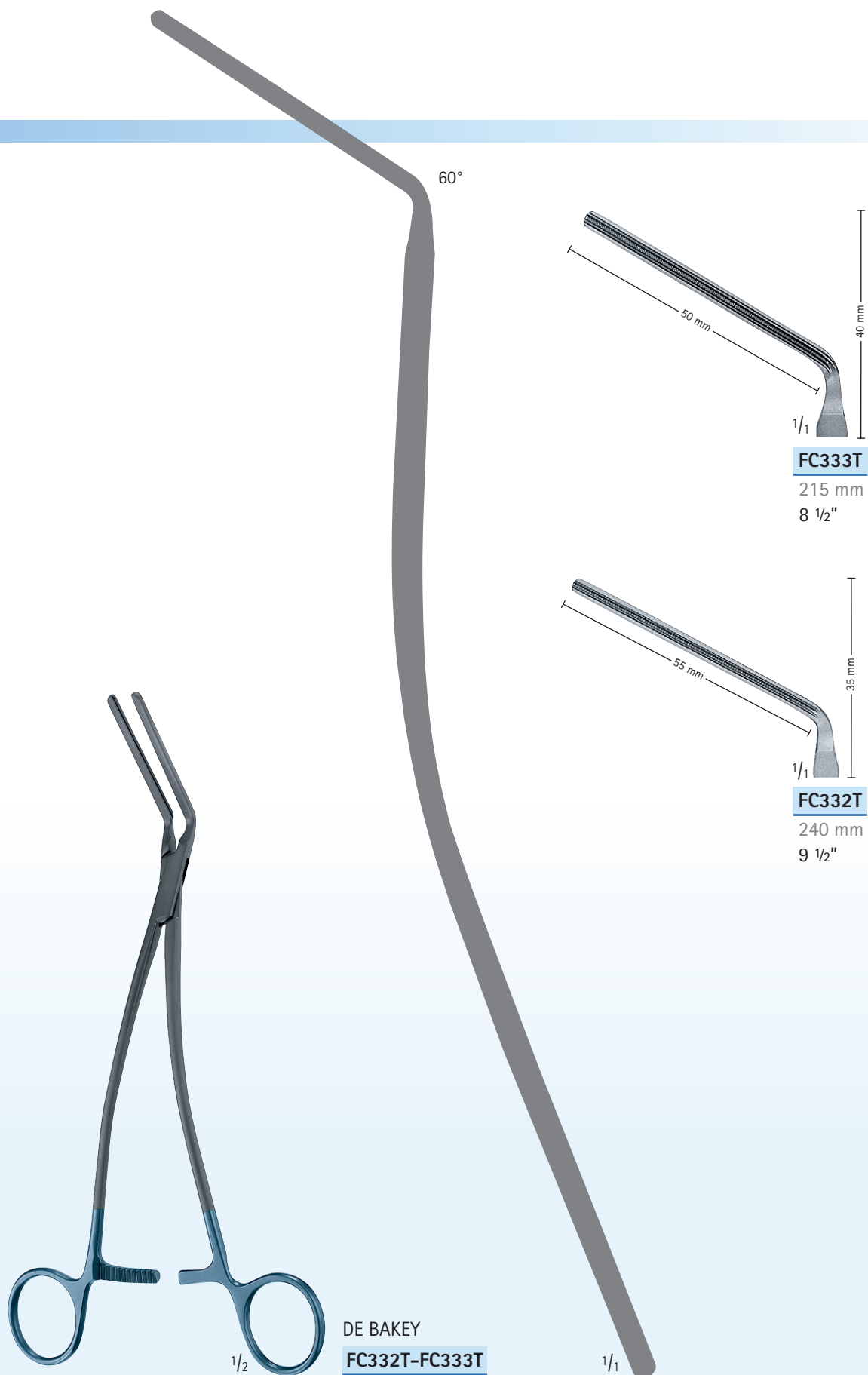
Instruments for Cardiac and Vascular Surgery

Titanium Vascular Clamps

ARAUUMATA

Toothing-DE BAKEY





Instruments for Cardiac and Vascular Surgery

Titanium Vascular Clamps

ARAUUMATA

Toothing-DE BAKEY

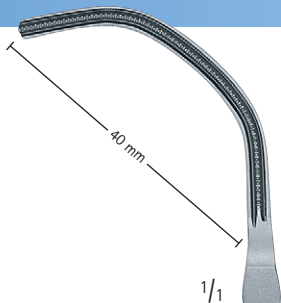


DE BAKEY-SATINSKY
FC334T-FC336T

1/2



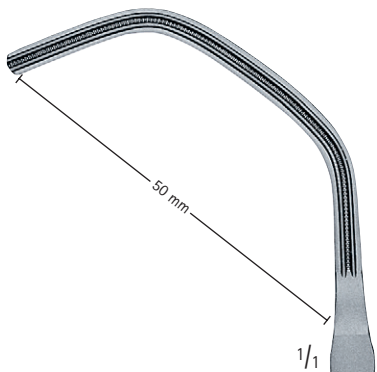
1/1



1/1

FC336T

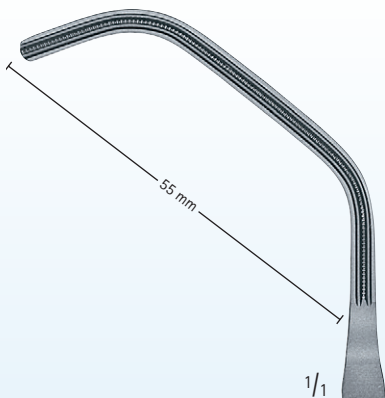
200 mm
8"



1/1

FC335T

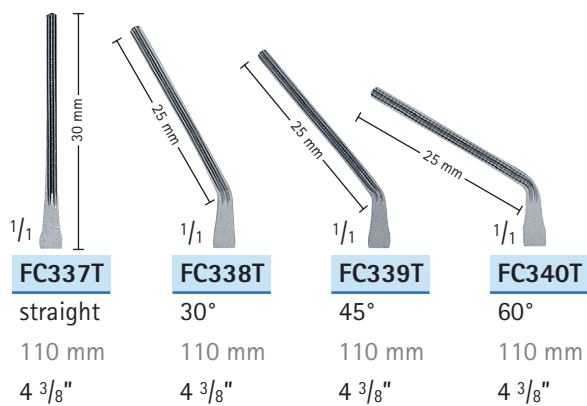
245 mm
9 3/4"



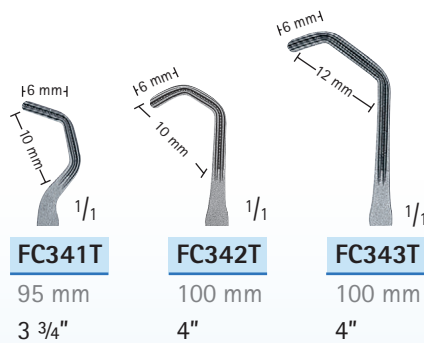
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FC334T

250 mm
10"



DE BAKEY
FC337T-FC343T



Instruments for Cardiac and Vascular Surgery

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BB052R	81	BM052R	43	FC286R	56	FC388R	56
BB054R	81	BM054R	38	FC287R	56	FC389R	56
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BB367R	80	BM058R	38	FC291R	56	FC420R	74
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BC516R	9	BM064R	41	FC295R	60	FC423R	74
BC517R	9	BM074R	42	FC296R	60	FC424R	74
BC518R	9	BM075R	42	FC297R	60	FC425R	74
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BC524R	9	BM325R	34	FC321T	84	FC429R	74
BC525R	9	BM327R	34	FC322T	85	FC430R	74
BC526R	9	BM328R	34	FC323T	85	FC431R	75
BC531R	9	BM560R	44	FC324T	85	FC432R	75
BC532R	9	BM562R	44	FC325T	85	FC433R	75
BC533R	9	BM563R	46	FC326T	86	FC434R	75
BC534R	9	BM564R	46	FC327T	86	FC435R	75
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FC525R	69	FM234T	50	FM489R	7	FM572R	12
FC530R	68	FM236R	33	FM490R	7	FM573R	12
FC531R	68	FM238T	50	FM491R	7	FM574R	12
FC532R	68	FM239T	50	FM492R	7	FM575R	12
FC533R	68	FM240T	50	FM493R	7	FM576R	12
FC534R	68	FM252T	50	FM503R	7	FM577R	12
FD042R	77	FM253T	50	FM504R	7	FM578R	12
FD043R	77	FM254T	50	FM505R	7	FM579R	12
FD045R	47	FM258T	50	FM506R	7	FM580R	12
FD046R	47	FM259T	50	FM507R	7	FM581R	12
FD048R	47	FM260T	50	FM508R	7	FM582R	14
FD076R	46	FM276R	33	FM511B	11	FM583R	12
FD079R	46	FM317T	20	FM520R	24	FM584R	14
FD080R	47	FM318T	20	FM521R	24	FM585R	12
FD081R	47	FM319T	20	FM522R	24	FM586R	14
FD230R	44	FM327T	20	FM523R	24	FM587R	14
FD231R	44	FM328T	20	FM524R	24	FM588R	14
FD232R	44	FM329T	20	FM525R	24	FM589R	14
FD233R	44	FM337T	20	FM526R	24	FM590R	14
FD240R	44	FM338T	20	FM527R	24	FM591R	14
FD241R	44	FM339T	20	FM528R	24	FM592R	12
FD242R	45	FM388R	36	FM529R	24	FM593R	12
FD243R	45	FM390R	36	FM530R	24	FM594R	12
FD244R	45	FM392R	45	FM531R	24	FM595R	12
FD245R	45	FM430R	5	FM532R	24	FM596R	12
FD246R	45	FM431R	5	FM533R	24	FM597R	14
FD247R	45	FM432R	5	FM534R	26	FM598R	14
FD251R	77	FM433R	5	FM535R	26	FM599R	12
FD252R	77	FM434R	5	FM536R	26	FM600R	12
FD253R	79	FM435R	5	FM537R	26	FM610B	11
FD255R	79	FM436R	5	FM538R	26	FM612B	11
FD258R	79	FM437R	5	FM539R	26	FM613B	11
FD259R	79	FM438R	5	FM540R	28	FM614B	11
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FD397R	82	FM440R	5	FM542R	28	FM616B	11
FD398R	82	FM441R	5	FM543R	28	FM617B	19
FD399R	82	FM442R	5	FM544R	28	FM618B	19
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FE010K	83	FM452R	5	FM546R	28	FM628B	18
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FE012K	83	FM454R	5	FM548R	28	FM638B	18
FE013K	83	FM455R	5	FM549R	28	FM639B	18
FE014K	83	FM470R	5	FM550R	30	FM640B	48
FE020K	83	FM471R	5	FM551R	30	FM642B	48
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FE022K	83	FM473R	5	FM553R	30	FM647B	19
FE023K	83	FM474R	5	FM554R	30	FM648B	19
FE024K	83	FM476R	7	FM555R	30	FM650B	49
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