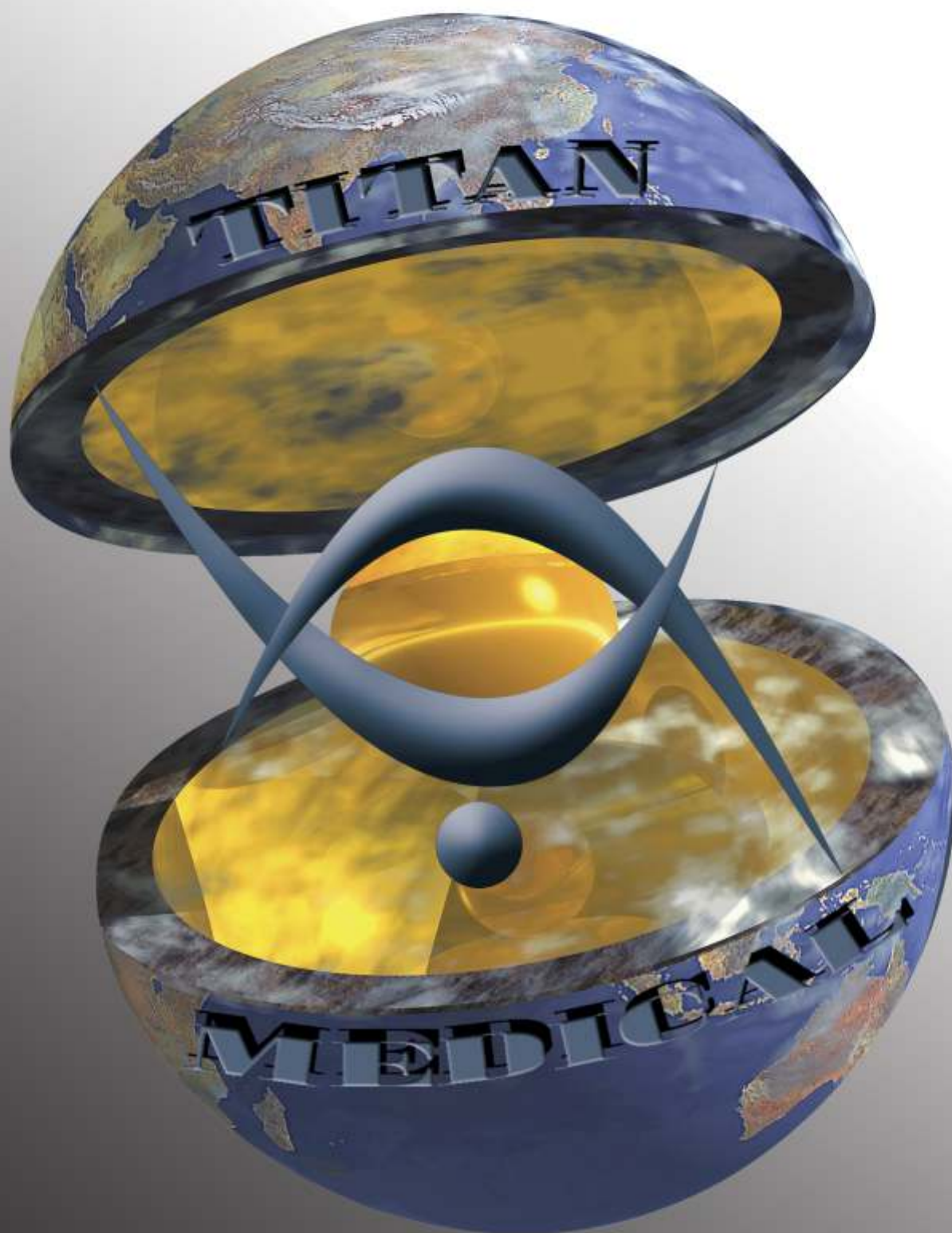


# MICROSURGICAL INSTRUMENTS



MICROVASCULAR CATALOGUE



Dear Ladies and Gentlemen,

We are glad to represent to your attention the catalogue of production of our dynamically developing company "TITAN MEDICAL". The priority direction of our company is production and supply of microsurgical instruments. Keeping the traditions of the past, and using the advanced experience of up-to-day leaders among manufacturers of medical instruments, our company fits the highest requirements of the leading surgeons from different countries of the world. Guarantee of high quality, optimal terms of delivery and also high level of service make cooperation with "TITAN MEDICAL" comfortable for our clients.



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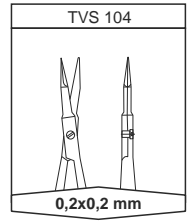
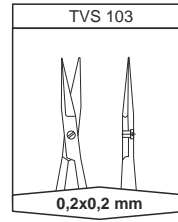
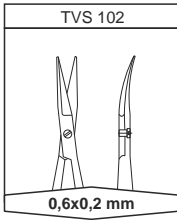
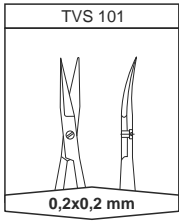
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**MICROVASCULAR CATALOG  
SECTION OF SCISSORS**



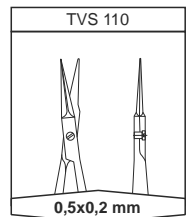
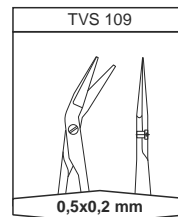
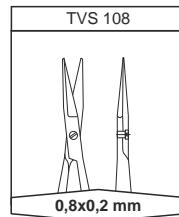
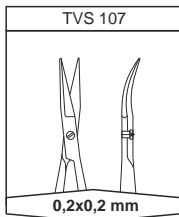
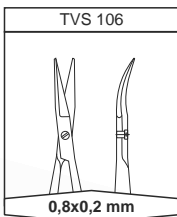
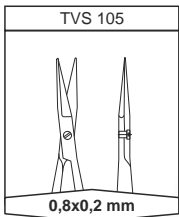
TVS 101 - TVS 104



5.9 150  
D=9

Overall length 150 mm  
5.9 inches  
Round titanium  
handle d=9 mm

TVS 105 - TVS 110

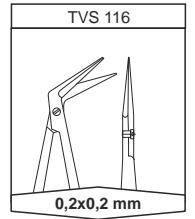
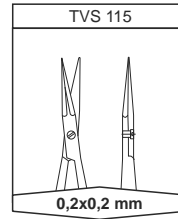
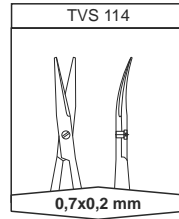
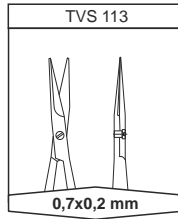
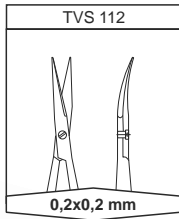
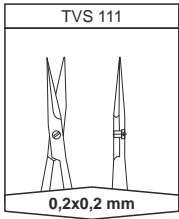


6.2 160  
11

Overall length 160 mm  
6.2 inches  
Flat titanium  
handle 11 mm wide



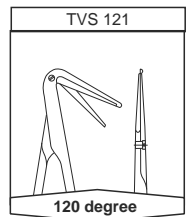
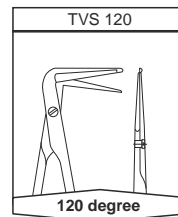
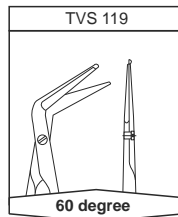
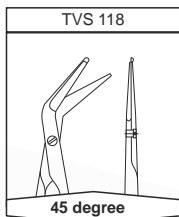
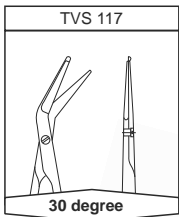
TVS 111 - TVS 116



5.9 150  
D=9

Overall length 150 mm  
5.9 inches  
Round titanium  
handle d=9 mm

TVS 117 - TVS 121



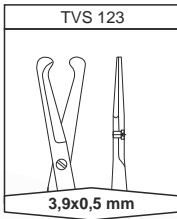
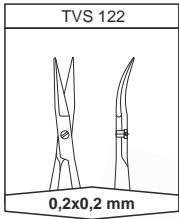
14 15  
1.0 0.8  
175  
6.8

Coronary scissors  
Blades 14x15 mm  
ball tip 1.0 0.8 mm  
Overall length 175 mm  
6.8 inches  
Flat handle 9 mm wide





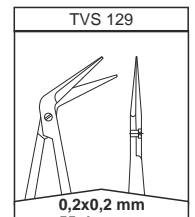
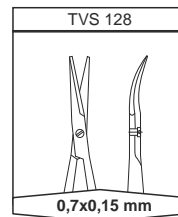
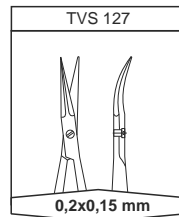
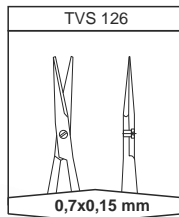
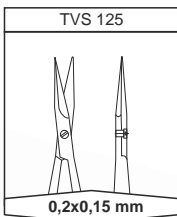
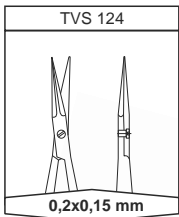
TVS 122 - TVS 123



7.0 180  
11

Overall length 180 mm  
7.0 inches  
Flat titanium  
handle 11 mm wide

TVS 124 - TVS 129

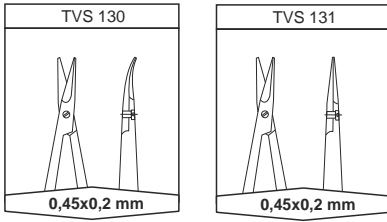


Stilet Type 180  
7.0  
D=9

Stilet Type  
Overall length 180 mm  
7.0 inches  
Round titanium  
handle d=9 mm



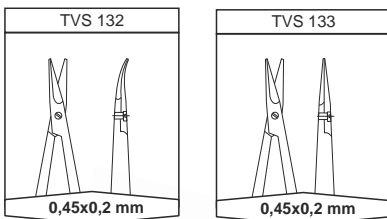
TVS 130 - TVS 131



7.2 185  
D=9

Double Action  
Left  
Overall length 185 mm  
7.2 inches  
Round titanium  
handle d=9 mm

TVS 132 - TVS 133



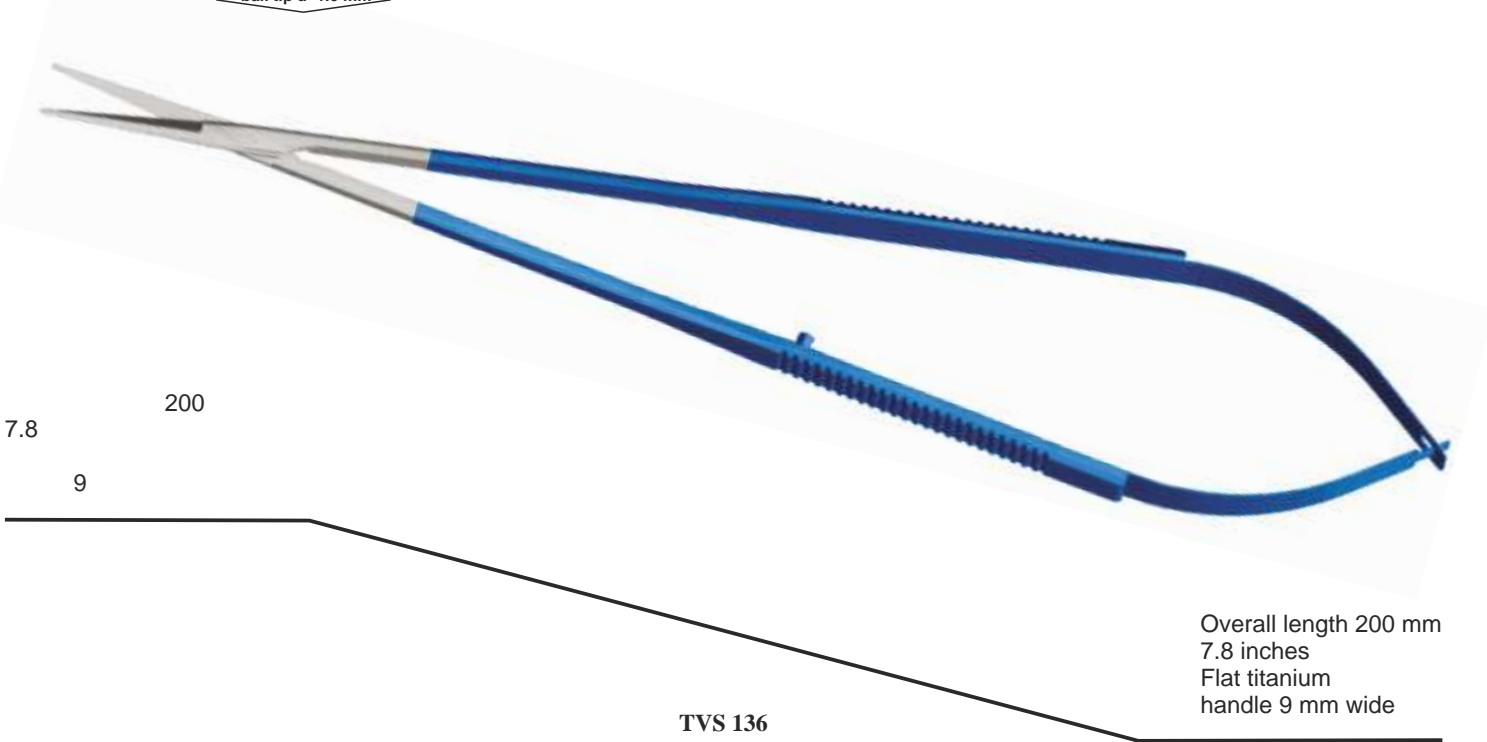
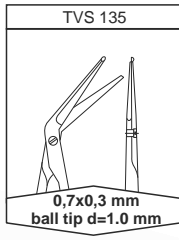
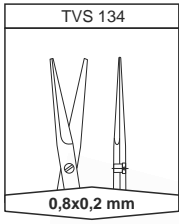
7.2 185  
D=9

Double Action  
Right  
Overall length 185 mm  
7.2 inches  
Round titanium  
handle d=9 mm

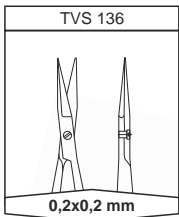




TVS 134 - TVS 135

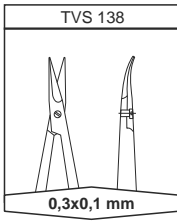
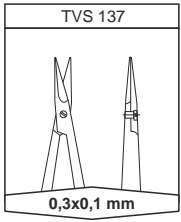


TVS 136





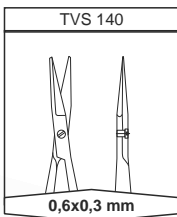
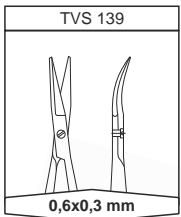
TVS 137 - TVS 138



7.8 200  
D=9

Double Action  
Overall length 200 mm  
7.8 inches  
Round titanium  
handle d=9 mm

TVS 139 - TVS 140

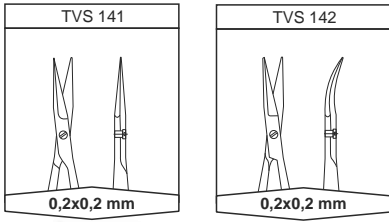


7.8 200  
D=9

Overall length 200 mm  
7.8 inches  
Round titanium  
handle d=9 mm



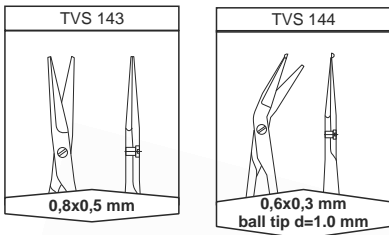
TVS 141 - TVS 142



7.8 200  
9

Bayonet  
Overall length 200 mm  
7.8 inches  
Flat handle 9 mm wide

TVS 143 - TVS 144

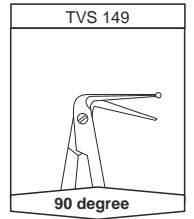
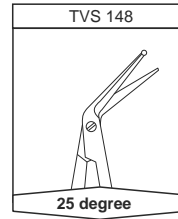
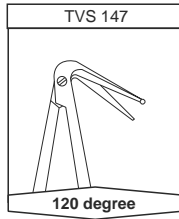
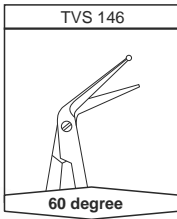
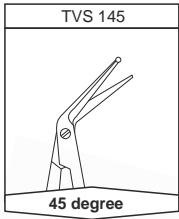


7.8 200  
9

Bayonet  
Overall length 200 mm  
7.8 inches  
Flat handle 11 mm wide



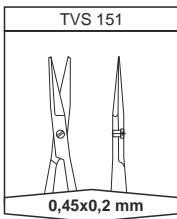
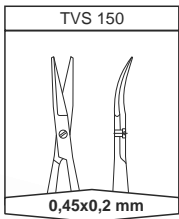
TVS 145 - TVS 149



15 16  
0.4 0.4  
200  
7.8  
D=9

Coronary  
Blades 15x16 mm  
tip 0.4x0.4 mm  
boll tip d=1.0x0.45 mm  
Overall length 200 mm  
7.8 inches  
Round handle d=9 mm

TVS 150 - TVS 151

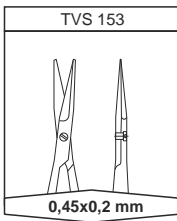
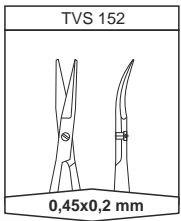


8.2  
210  
D=9

Double Action  
Right  
Overall length 210 mm  
8.2 inches  
Round titanium  
handle d=9 mm



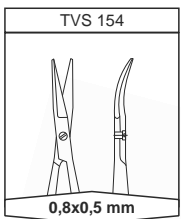
TVS 152 - TVS 153



8.2 210  
D=9

Double Action  
Left  
Overall length 210 mm  
8.2 inches  
Round titanium  
handle d=9 mm

TVS 154

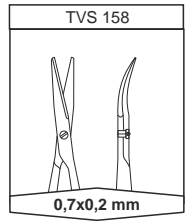
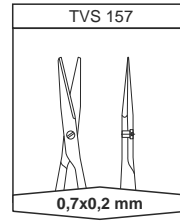
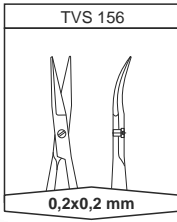
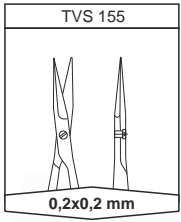


8.6 210  
12

Bayonet  
Overall length 220 mm  
8.6 inches  
Flat titanium  
handle 12 mm wide

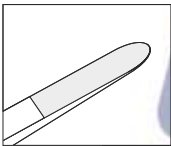
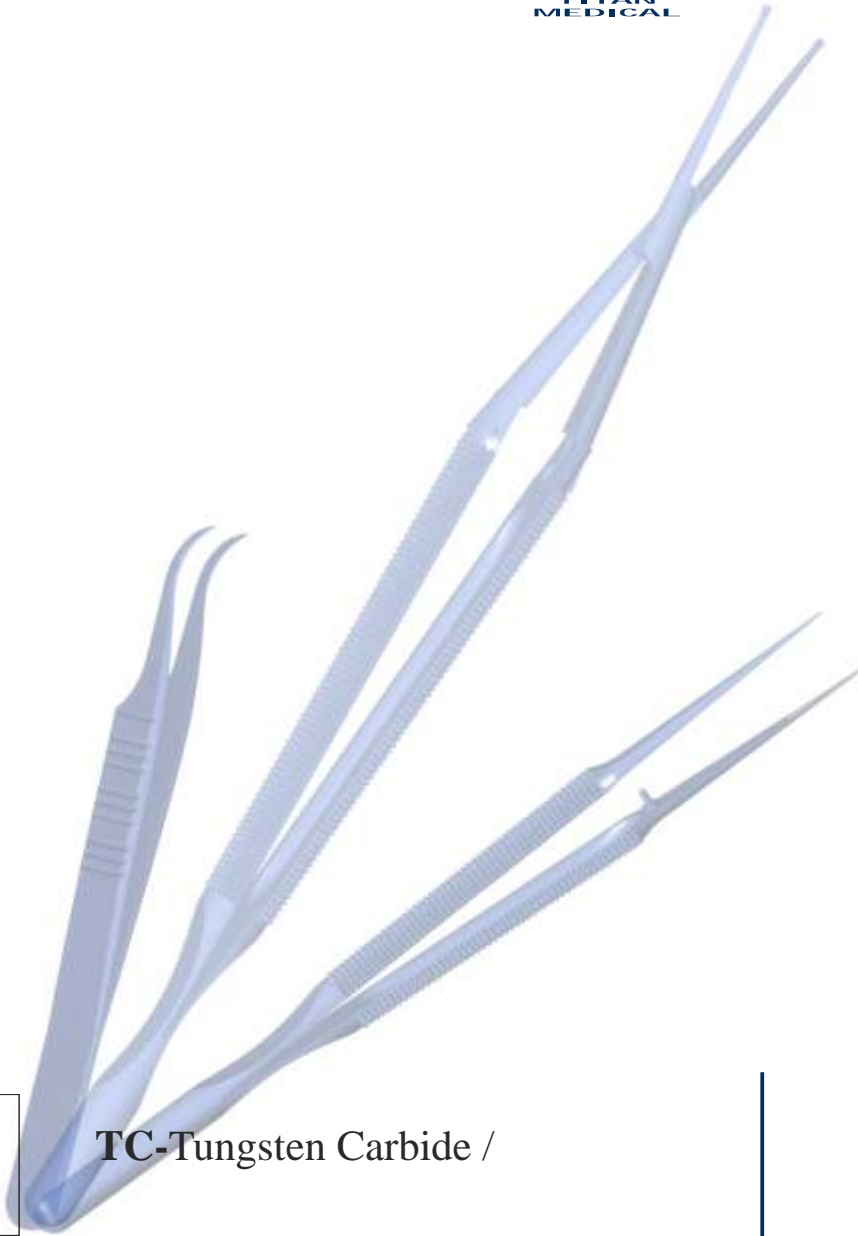


TVS 155 - TVS 158



Bayonet  
Overall length 230 mm  
9.0 inches  
Flatitanium  
handle 12 mm wide





**TC-Tungsten Carbide /**

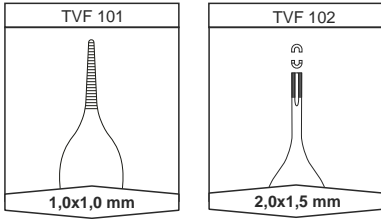
Tungsten carbide particles metallurgically fused to the jaw create a fine surface. This extremely durable surface allows for the secure, atraumatic handling of delicate suture and tissue.



**MICROVASCULAR CATALOG  
SECTION OF FORCEPS**



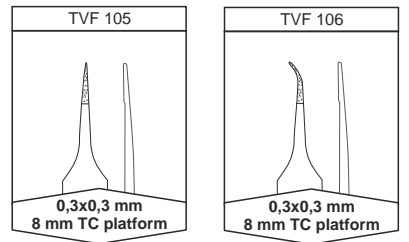
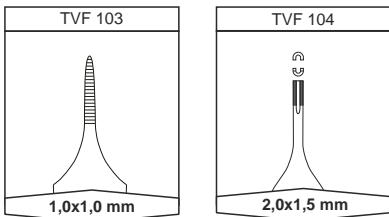
TVF 101 - TVF 102



4.7 120  
14

Adson  
Overall length 120 mm  
4.7 inches  
Flat handle 14 mm wide

TVF 103 - TVF 106

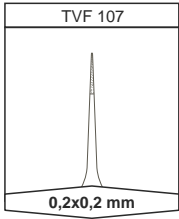


5,1 130  
14

Adson  
Overall length 130 mm  
5,1 inches  
Flat handle 14 mm wide



TVF 107



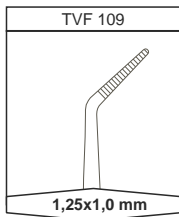
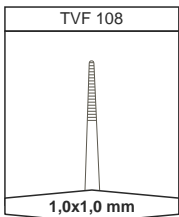
5.7

145

14

Sharp Pointed Tips  
Overall length 145 mm  
5.7 inches  
Flat handle 14 mm wide

TVF 108 - TVF 109



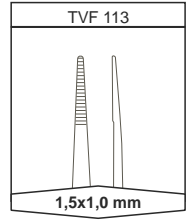
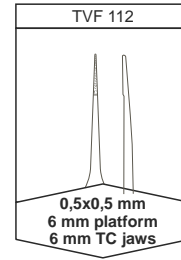
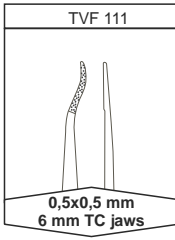
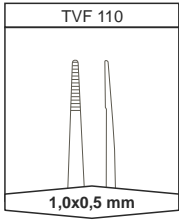
5,9

152

7.4

Serrated platform  
Overall length 152 mm  
5,9 inches  
Flat handle 7.4 mm wide

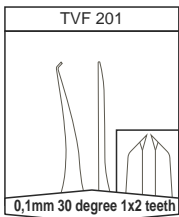
## TVF 110 - TVF 113



7.8  
200  
D=9

Overall length 200 mm  
7.8 inches  
Round handle d=9 mm

## TVF 201

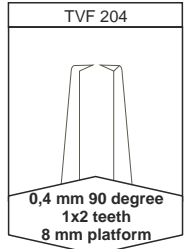
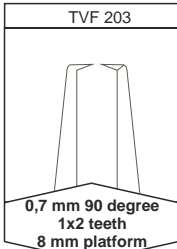
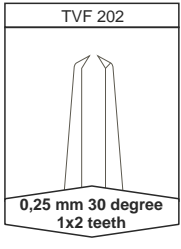


4,7  
120  
D=8

Colibri Style  
Overall length 120 mm  
4,7 inches  
Round handle d=8 mm



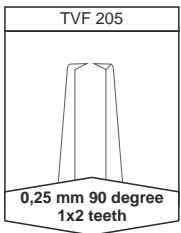
TVF 202 - TVF 204



4.7      120  
            14

Overall length 120 mm  
4.7 inches  
Flat handle 14 mm wide

TVF 205

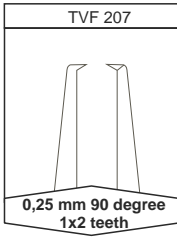
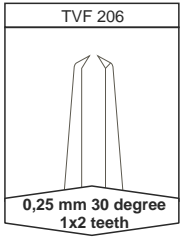


5,1      130  
            D=8

Overall length 130 mm  
5,1 inches  
Round handle d=8 mm

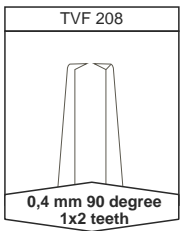


TVF 206 - TVF 207



5.1      130  
            14

TVF 208



5,7      145  
            14

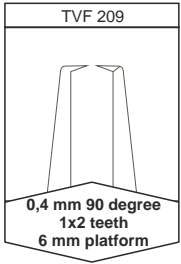
Overall length 130 mm  
5.1 inches  
Flat handle 14 mm wide

Overall length 145 mm  
5,7 inches  
Flat handle 14 mm wide





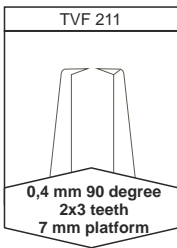
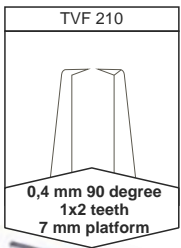
TVF 209



7.0 180  
D=8

Overall length 180 mm  
7.0 inches  
Round handle d=8 mm

TVF 210 - TVF 211

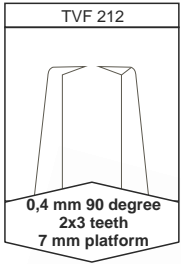


7,8 200  
D=9

Overall length 200 mm  
7,8 inches  
Round handle d=9 mm



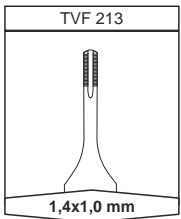
TVF 212



7.8      200  
            12



TVF 213



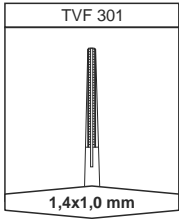
5,7      130  
            14

Bayonet  
Overall length 200 mm  
7.8 inches  
Flat handle 12 mm wide

Overall length 130 mm  
5,7 inches  
Flat handle 14 mm wide



TVF 301

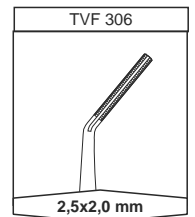
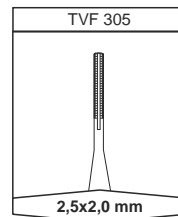
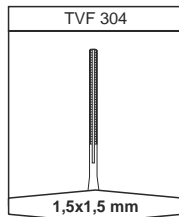
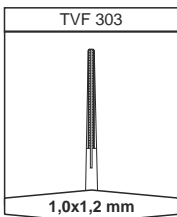
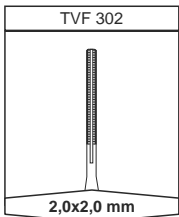


De Bakey  
150  
5.9  
D=8



TVF 302 - TVF 306

De Bakey  
Overall length 150 mm  
5.9 inches  
Round handle d=8 mm

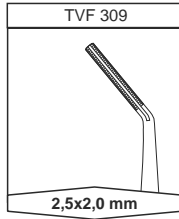
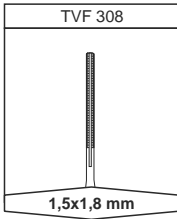
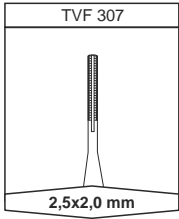


De Bakey  
150  
5.9  
11

De Bakey  
Overall length 150 mm  
5.9 inches  
Flat handle 11 mm wide



TVF 307 - TVF 309

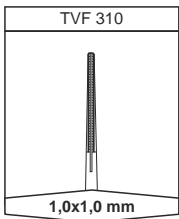


De Bakey  
185  
7.2  
11

De Bakey  
Overall length 185 mm  
7.2 inches  
Flat handle 11 mm wide



TVF 310

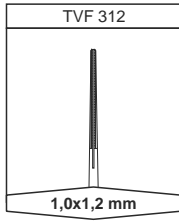
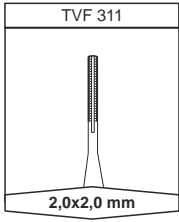


De Bakey  
185  
7.2  
D=9

De Bakey  
Overall length 185 mm  
7.2 inches  
Round handle d=9 mm



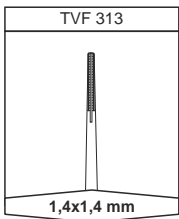
TVF 311 - TVF 312



De Bakey  
200  
7.8  
11

De Bakey  
Overall length 200 mm  
7.8 inches  
Flat handle 11 mm wide

TVF 313

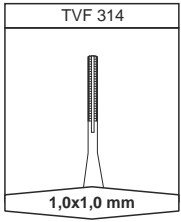


De Bakey  
200  
7.8  
D=9

De Bakey  
Overall length 200 mm  
7.8 inches  
Round handle d=9 mm



TVF 314

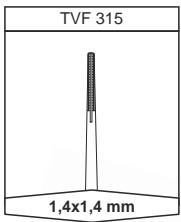


De Bakey  
210  
8.2  
D=9



TVF 315

De Bakey  
Overall length 210 mm  
8.2 inches  
Round handle d=9 mm



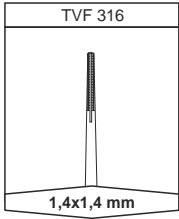
De Bakey  
200  
7.8  
12

De Bakey  
Overall length 200 mm  
7.8 inches  
Flat handle 12 mm wide





TVF 316



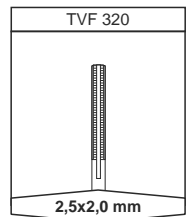
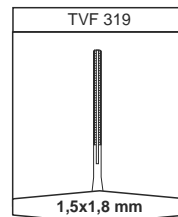
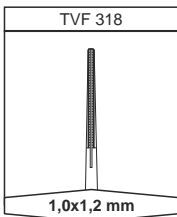
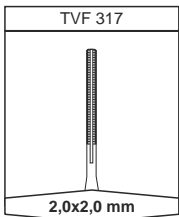
De Bakey (Bayonet)  
220

8.6  
12



TVF 317 - TVF 320

De Bakey (Bayonet)  
Overall length 220 mm  
8.6 inches  
Flat handle 12 mm wide



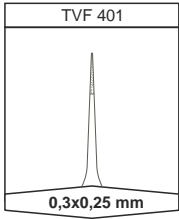
De Bakey  
240

9.4  
13

De Bakey  
Overall length 240 mm  
9.4 inches  
Flat handle 13 mm wide



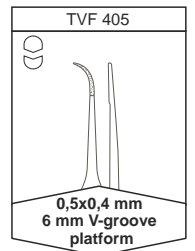
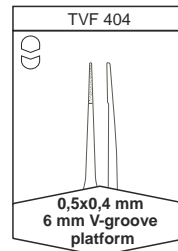
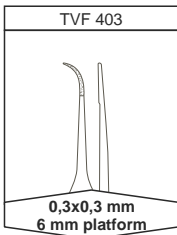
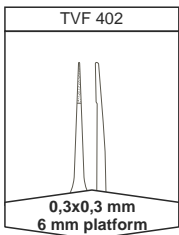
TVF 401



Sharp Pointed Tips  
120  
4.7  
D=8

TVF 402 - TVF 405

Sharp Pointed Tips  
Overall length 120 mm  
4.7 inches  
Round handle d=8 mm

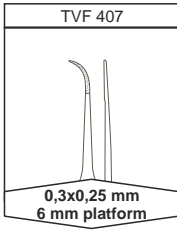
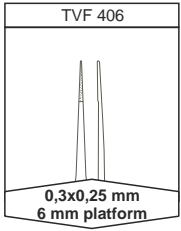


5.3  
135  
D=8

Overall length 135 mm  
5.3 inches  
Round handle d=8 mm



TVF 406 - TVF 407



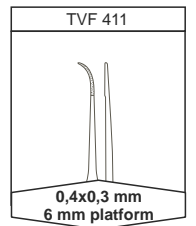
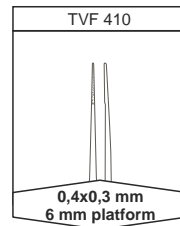
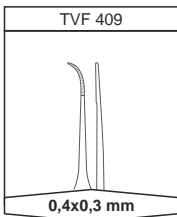
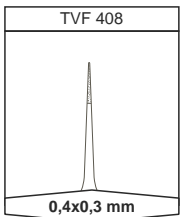
5.9

152

D=8

Overall length 152 mm  
5.9 inches  
Round handle d=8 mm

TVF 408 - TVF 411



6.1

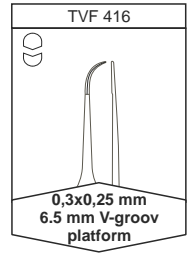
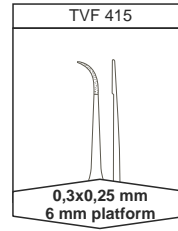
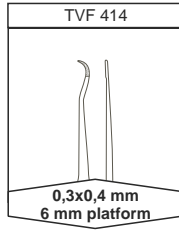
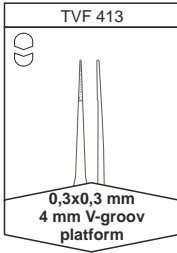
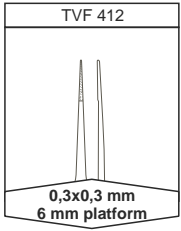
155

D=8

Overall length 155 mm  
6.1 inches  
Round handle d=8 mm



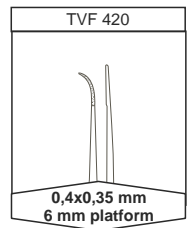
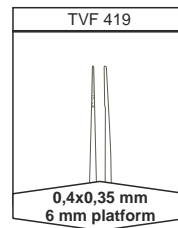
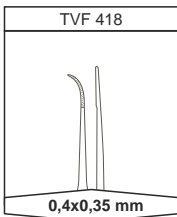
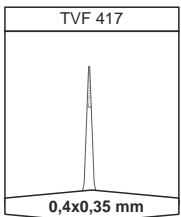
TVF 412 - TVF 416



6.2  
160  
D=8

Overall length 160 mm  
6.2 inches  
Round handle d=8 mm

TVF 417 - TVF 420

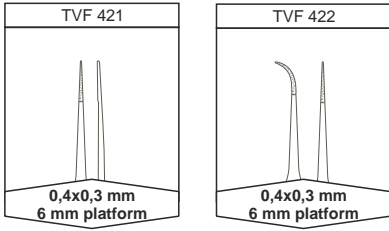


6.8  
175  
D=8

Overall length 175 mm  
6.8 inches  
Round handle d=8 mm



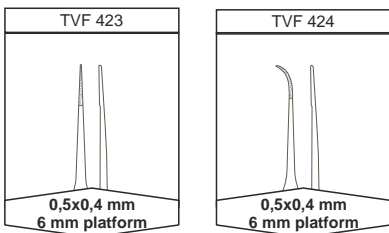
TVF 421 - TVF 422



7.0 178  
D=8

Overall length 178 mm  
7.0 inches  
Round handle d=8 mm

TVF 423 - TVF 424

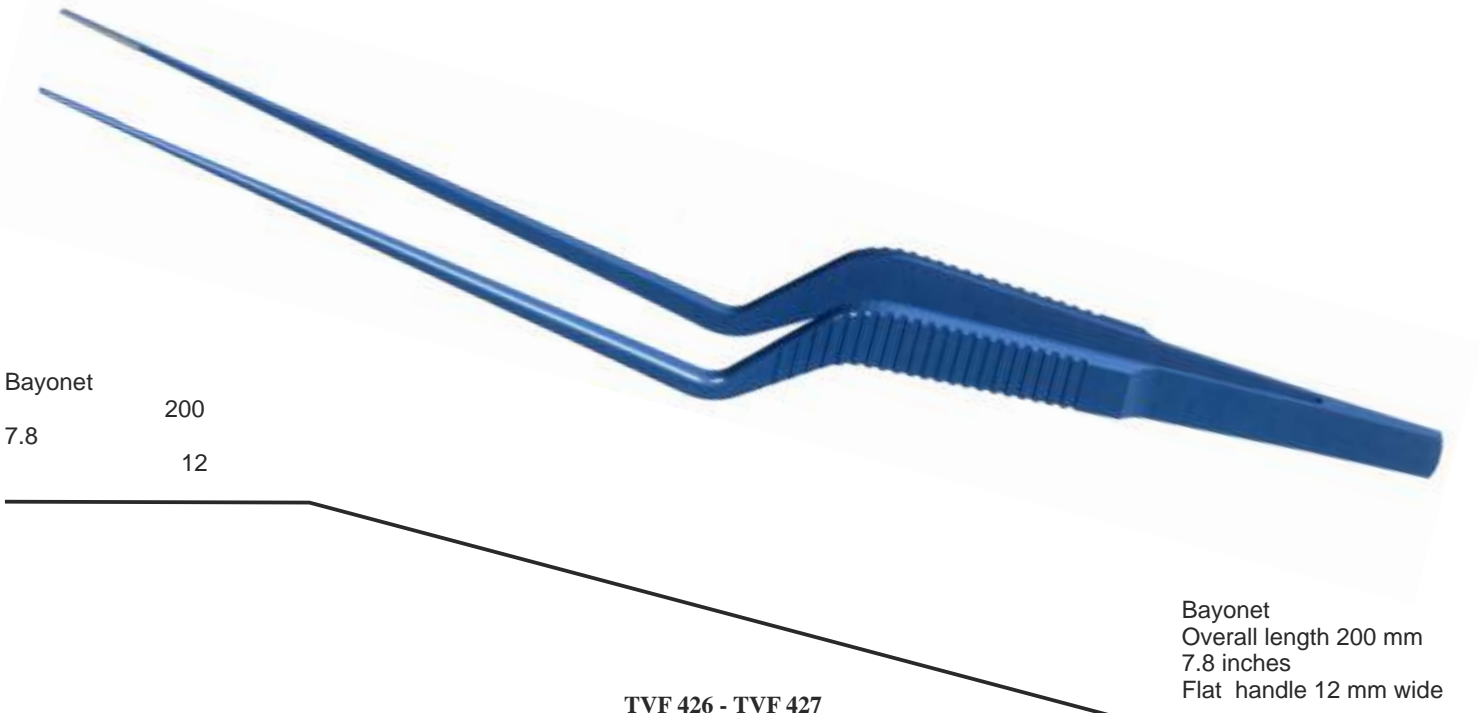
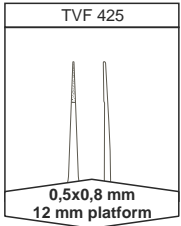


7.2 185  
D=9

Overall length 185 mm  
7.2 inches  
Round handle d=9 mm



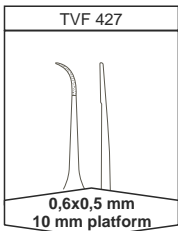
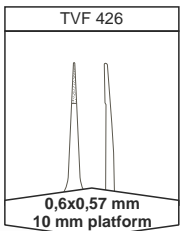
TVF 425



Bayonet  
200  
7.8  
12

Bayonet  
Overall length 200 mm  
7.8 inches  
Flat handle 12 mm wide

TVF 426 - TVF 427



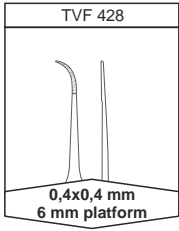
8.2  
210  
D=9

Overall length 210 mm  
8.2 inches  
Round handle d=9 mm





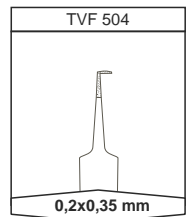
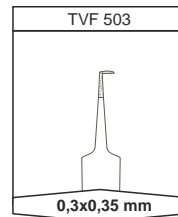
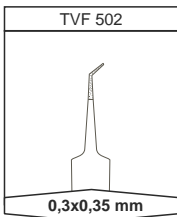
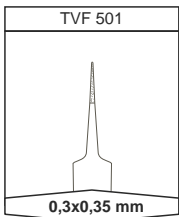
TVF 428



7.1 185  
D=9

Overall length 185 mm  
7.1 inches  
Round handle d=9 mm

TVF 501 - TVF 504

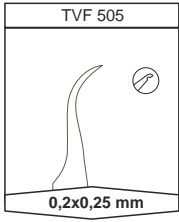


4.3 110  
10

Overall length 110 mm  
4.3 inches  
Flat handle 10 mm wide



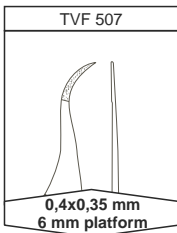
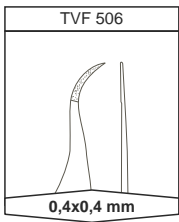
TVF 505



4.3      110  
            10

Colibri Type  
Pierse type tips  
Overall length 110 mm  
4.3 inches  
Flat handle 10 mm wide

TVF 506 - TVF 507

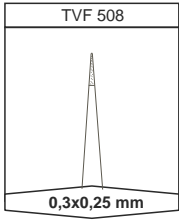


Colibri Type      120  
4.7                  10

Colibri Type  
Overall length 120 mm  
4.7 inches  
Flat handle 10 mm wide



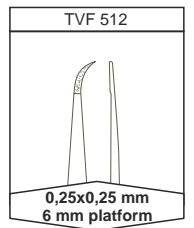
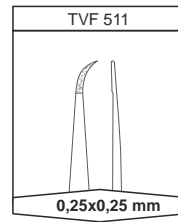
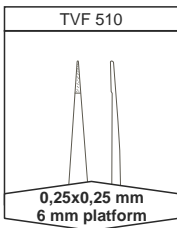
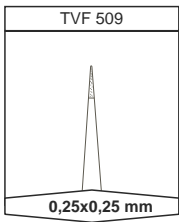
TVF 508



121  
4.7  
10

Overall length 121 mm  
4.7 inches  
Flat handle 10 mm wide

TVF 509 - TVF 512

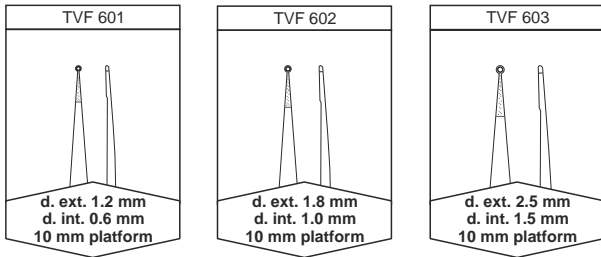


135  
5.3  
10

Overall length 135 mm  
5.3 inches  
Flat handle 10 mm wide



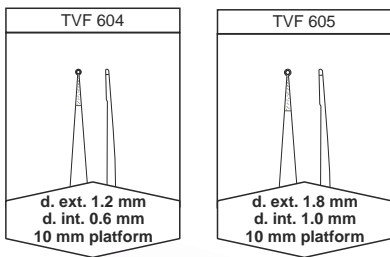
TVF 601 - TVF 603



Anastomosis Type  
185  
7.2  
D=9

Anastomosis Type  
Overall length 185 mm  
7.2 inches  
Round handle d=9 mm

TVF 604 - TVF 605

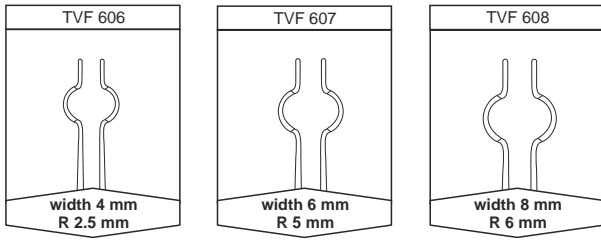


Anastomosis Type  
Duble Action  
185  
7.2  
D=9

Anastomosis Type  
Duble Action  
Overall length 185 mm  
7.2 inches  
Round handle d=9 mm

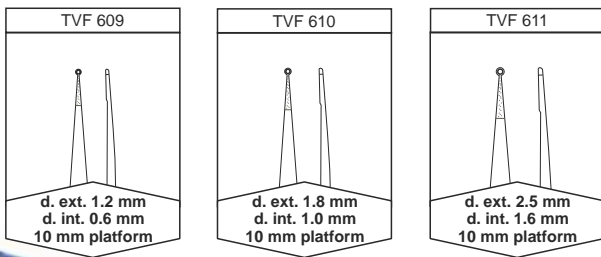


TVF 606 - TVF 608



Holding Of Fallopiev Tube  
Overall length 200 mm  
7.8 inches  
Round handle d=9 mm

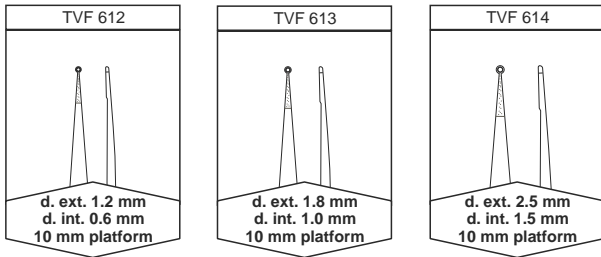
TVF 609 - TVF 611



Anastomosis Type  
Overall length 210 mm  
8.2 inches  
Round handle d=9 mm



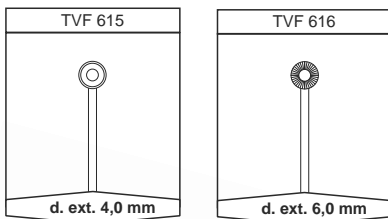
TVF 612 - TVF 614



210  
8.2  
D=9

Anastomosis  
Double Action  
Overall length 210 mm  
8.2 inches  
Round handle d=9 mm

TVF 615 - TVF 616

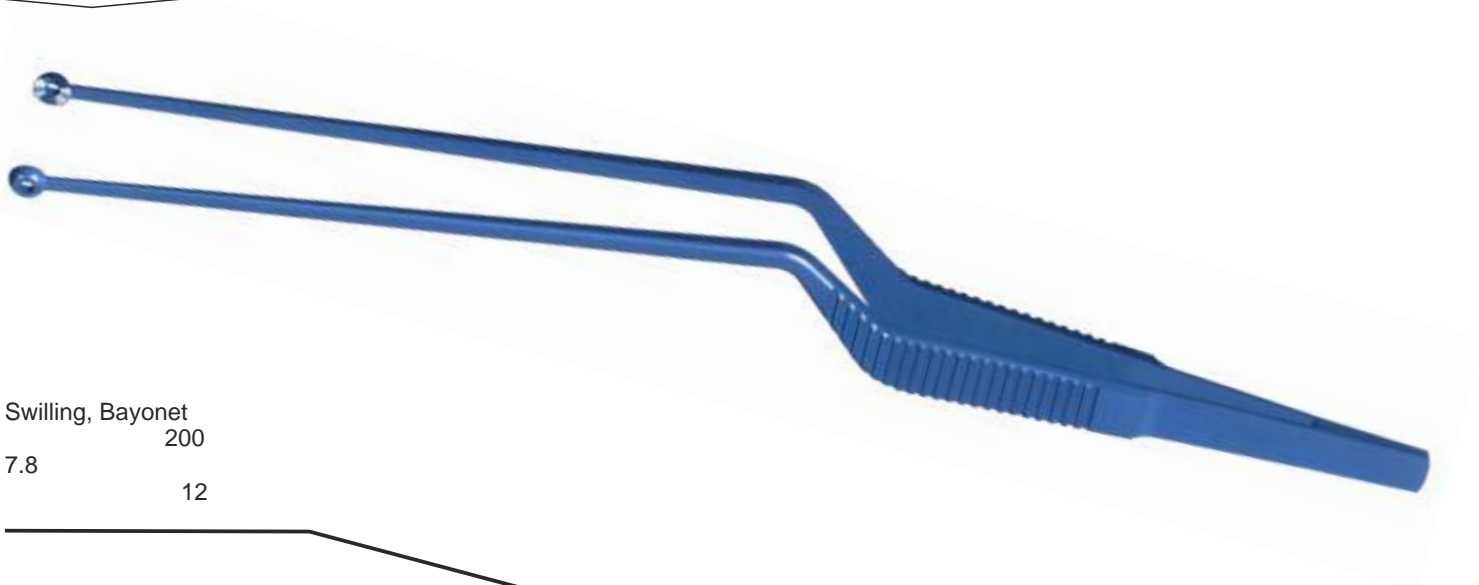
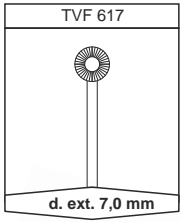


Bayonet Spooned  
220  
8.6  
9  
Swilling Bayonet

Bayonet Spooned  
Overall length 220 mm  
8.6 inches  
Flat handle 12 mm wide  
Swilling Bayonet



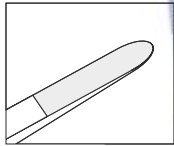
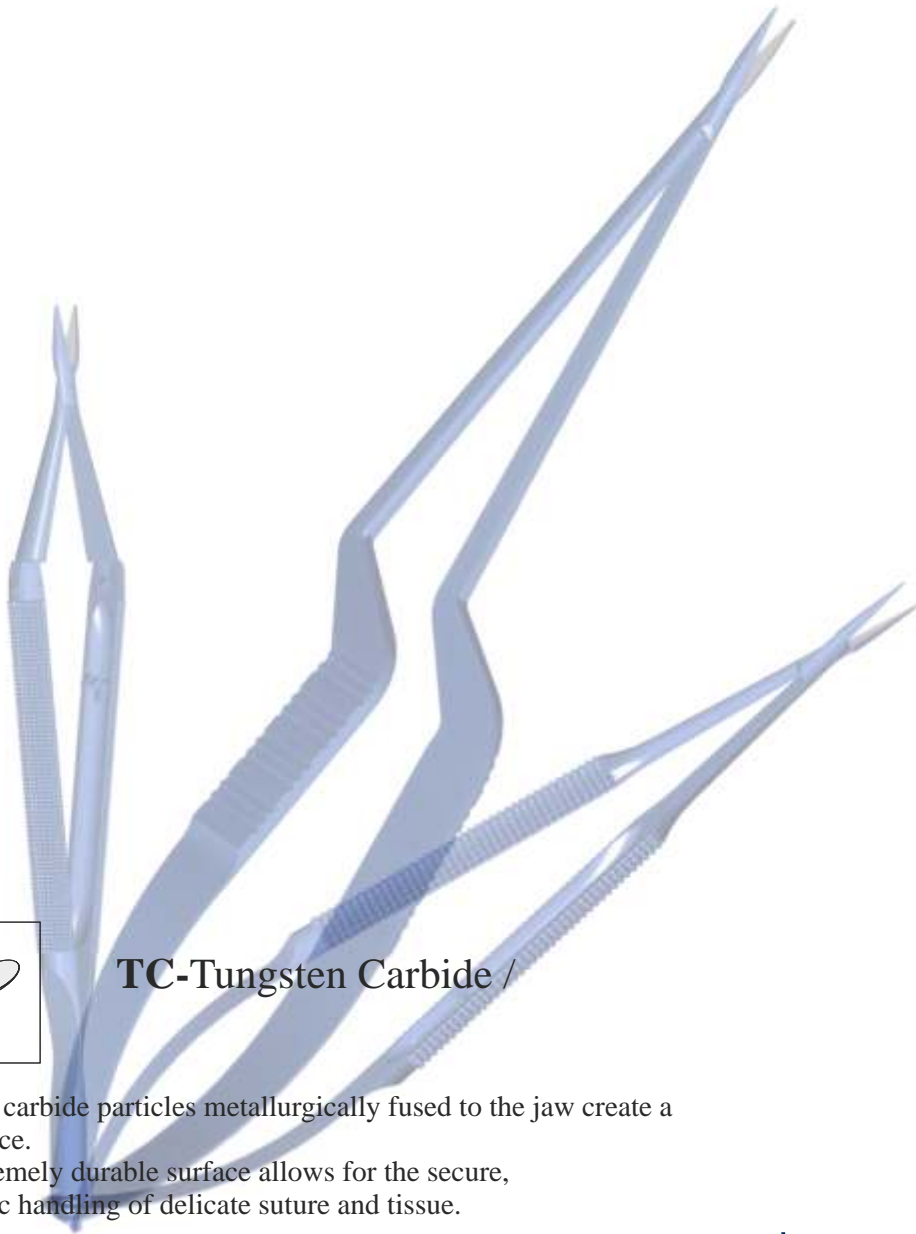
TVF 617



Swilling, Bayonet  
200  
7.8  
12

Swilling, Bayonet  
Overall length 200 mm  
7.8 inches  
Flat handle 12 mm wide





**TC-Tungsten Carbide /**

Tungsten carbide particles metallurgically fused to the jaw create a fine surface.

This extremely durable surface allows for the secure, atraumatic handling of delicate suture and tissue.

If you want to order the Needle Holder with:

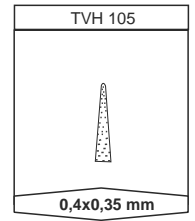
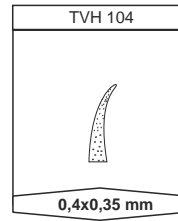
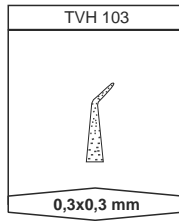
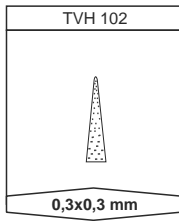
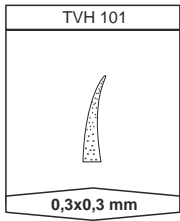
1- regular lock - add «L» to the instruments code TBH 158 L

2- universal lock - add «U» to the instruments code TBH 158 U

**MICROVASCULAR CATALOG  
SECTION OF NEEDLE HOLDERS**



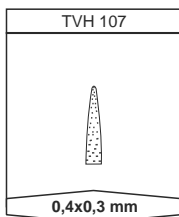
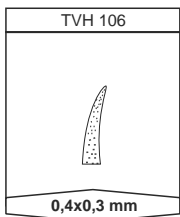
TVH 101 - TVH 105



5,3  
135  
D = 9

Overall length 135 mm  
5.3 inches  
Round handle d=9 mm

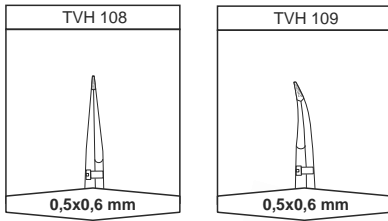
TVH 106 - TVH 107



5,3  
135  
D = 6

Overall length 135 mm  
5.3 inches  
Round handle d=6 mm

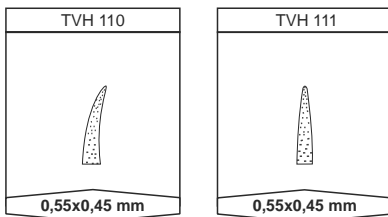
TVH 108 - TVH 109



5,5  
-  
140  
D = 8

Needle-Holder-Scissors  
Overall length 140 mm  
5.5 inches  
Round handle d=8 mm

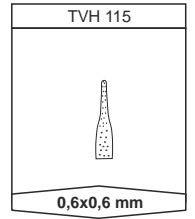
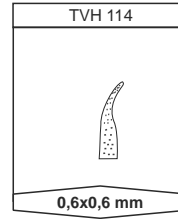
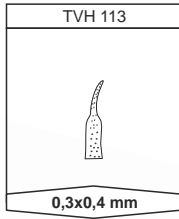
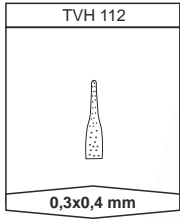
TVH 110 - TVH 111



5,7  
145  
D = 8

Overall length 145 mm  
5.7 inches  
Round handle d=8 mm

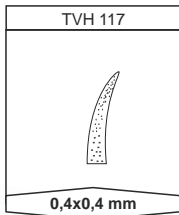
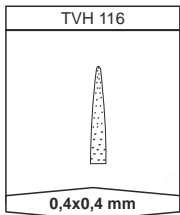
TVH 112 - TVH 115



5,9  
150  
D = 10

Overall length 150 mm  
5.9 inches  
Round handle d=10 mm

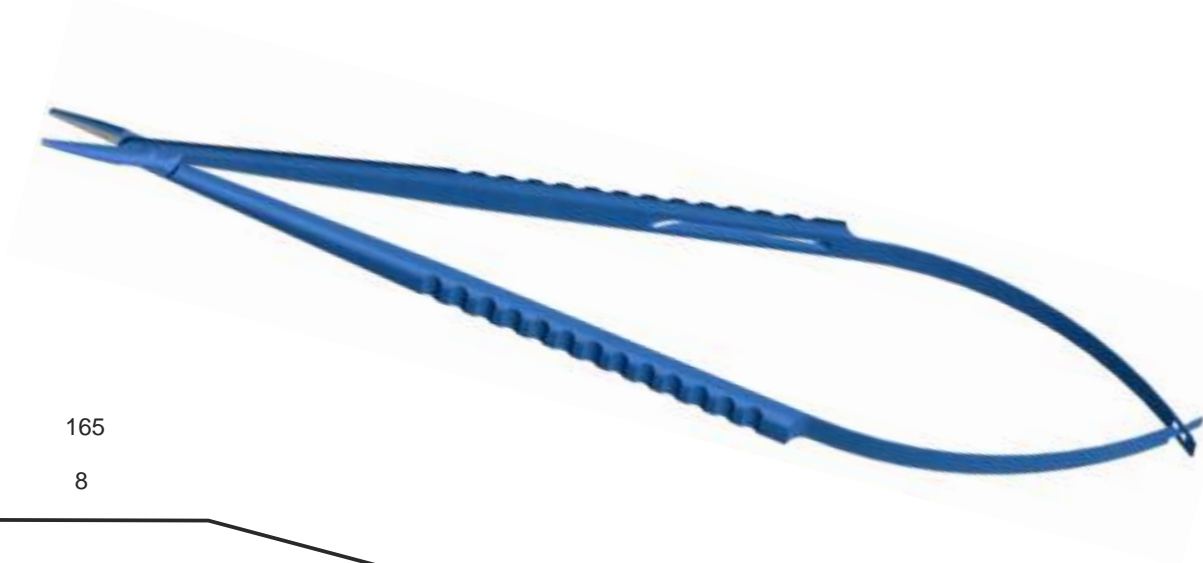
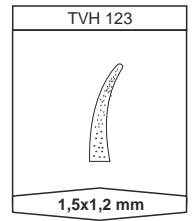
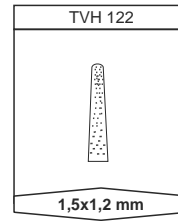
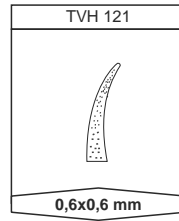
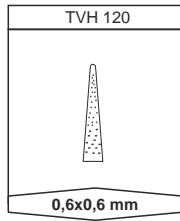
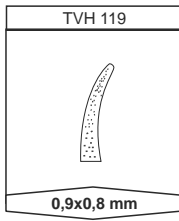
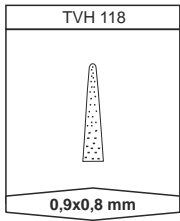
TVH 116 - TVH 117



6,3  
160  
D = 9

Overall length 160 mm  
6.3 inches  
Round handle d=9 mm

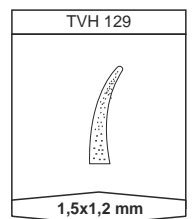
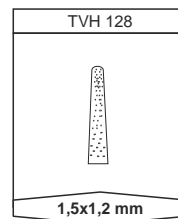
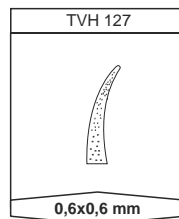
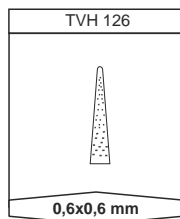
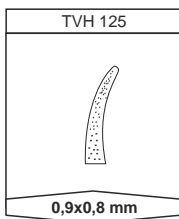
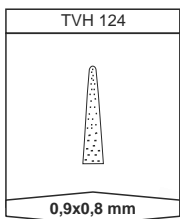
TVH 118 - TVH 123



6,5  
165  
8

Overall length 165 mm  
6.5 inches  
Flat handle 8 mm wide

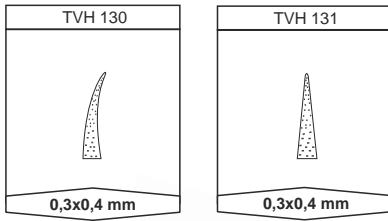
TVH 124 - TVH 129



6,5  
165  
D = 9

Overall length 165 mm  
6.5 inches  
Round handle d=9 mm

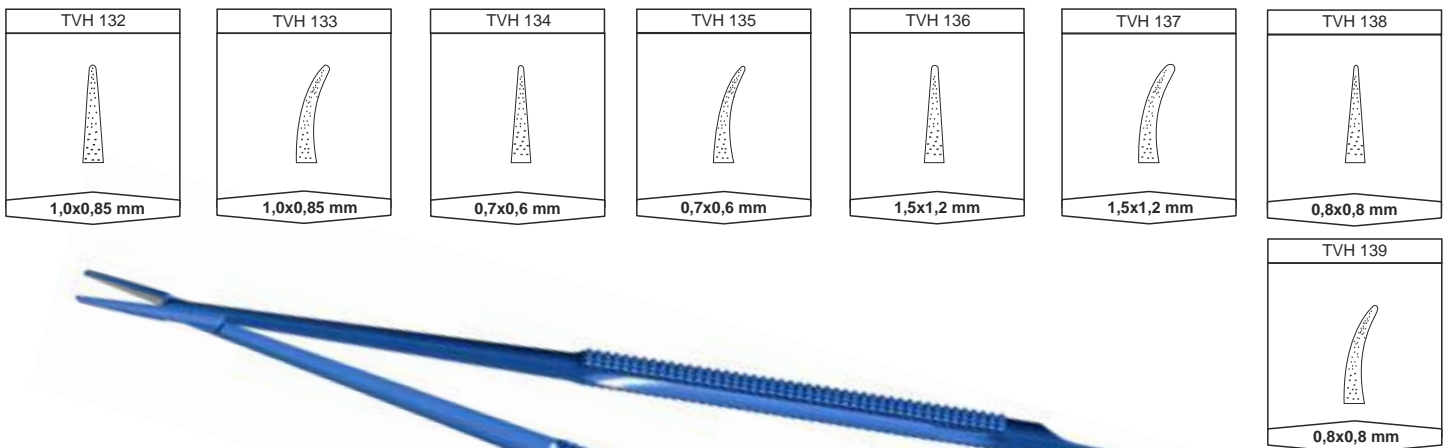
TVH 130 - TVH 131



7,1  
180  
D= 9

Overall length 180 mm  
7.1 inches  
Round handle d=9 mm

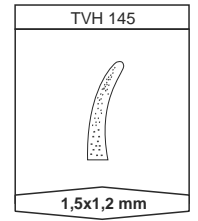
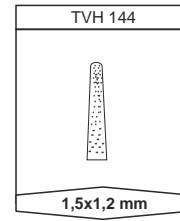
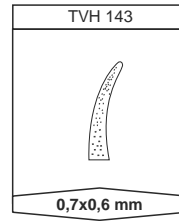
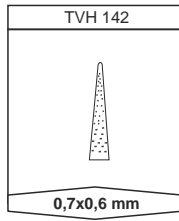
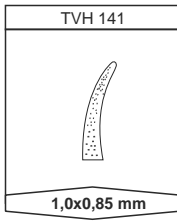
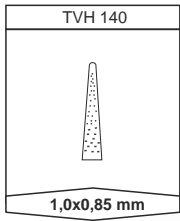
TVH 132 - TVH 139



7,5  
185  
D = 8

Overall length 185 mm  
7.3 inches  
Round handle d=8 mm

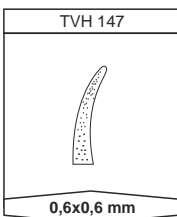
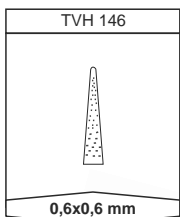
TVH 140 - TVH 145



7,3  
185  
D= 8

Overall length 185 mm  
7.3 inches  
Flat handle d=8 mm wide

TVH 146 - TVH 147

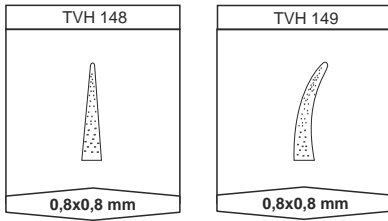


7,5  
185  
D = 9

Overall length 185 mm  
7.3 inches  
Round handle d=9 mm



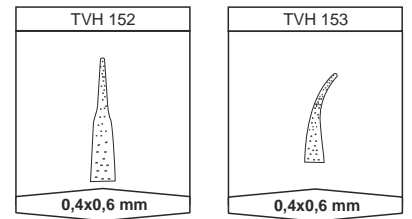
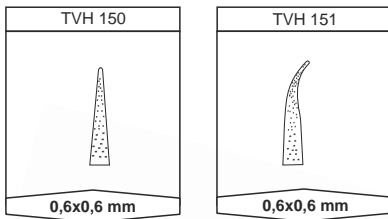
TVH 148 - TVH 149



7,9 200  
D= 9

Overall length 200 mm  
7.9 inches  
Round handle d=9 mm

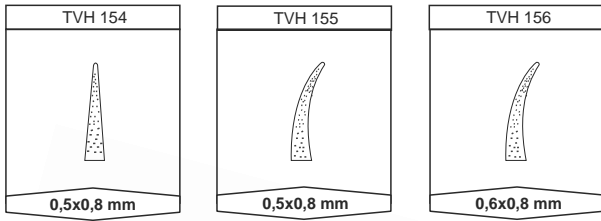
TVH 150 - TVH 153



7,9 200  
D= 9

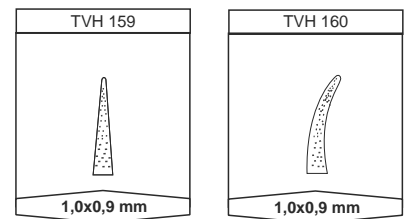
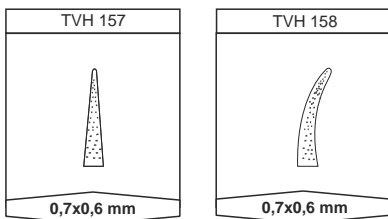
Overall length 200 mm  
7.9 inches  
Round handle d=9 mm

TVH 154 - TVH 156



Overall length 200 mm  
7.9 inches  
Flat handle d=12 mm wide

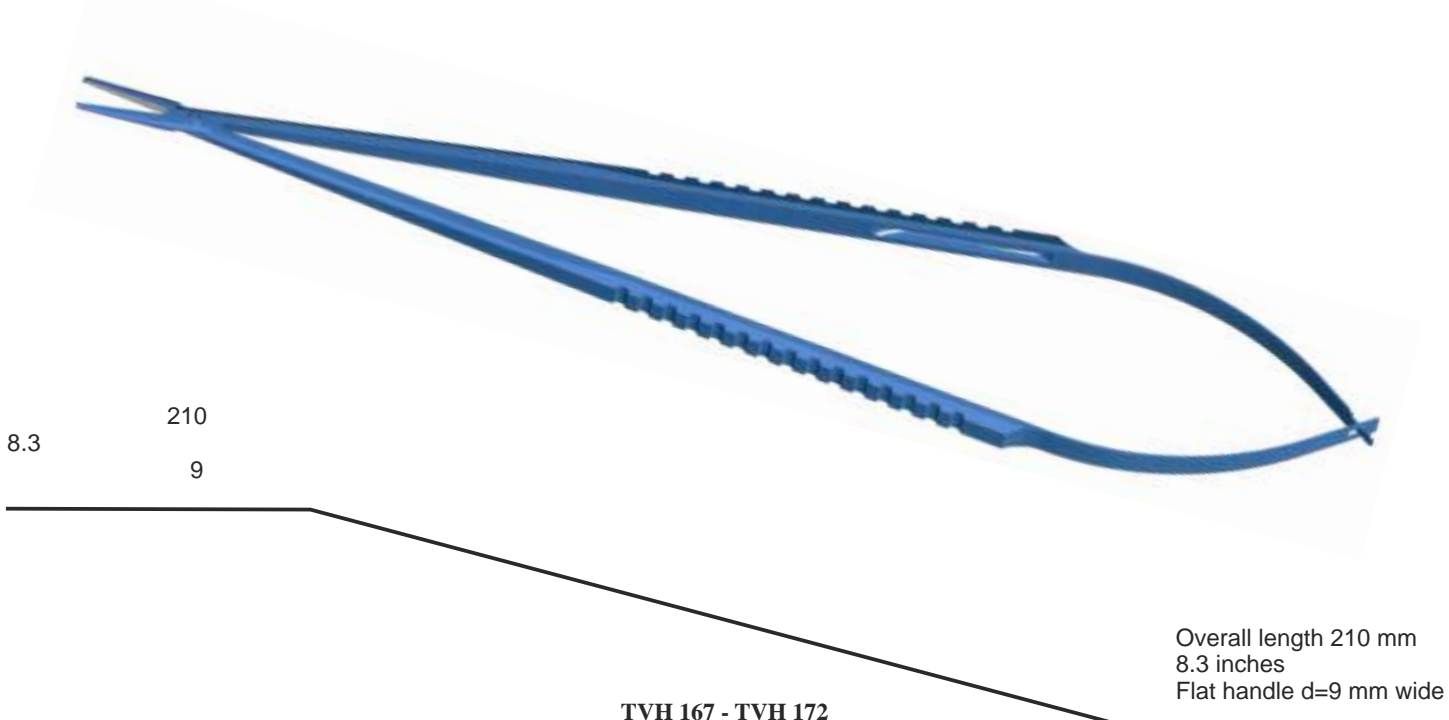
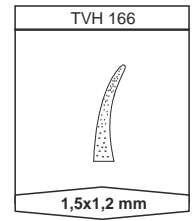
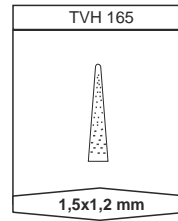
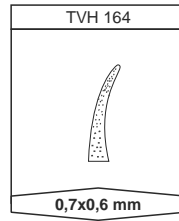
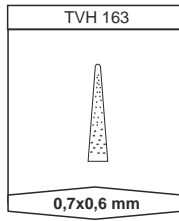
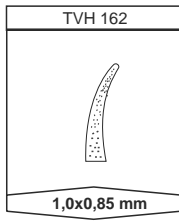
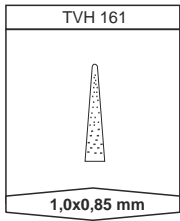
TVH 157 - TVH 160



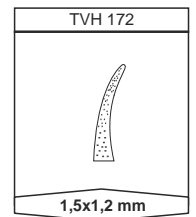
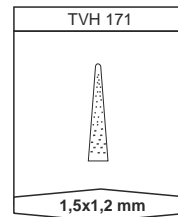
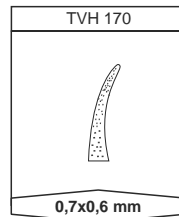
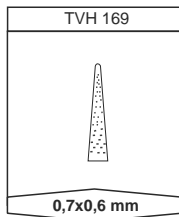
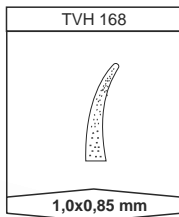
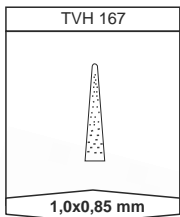
8,3      210  
D= 9

Overall length 210 mm  
8,3 inches  
Round handle d=9 mm

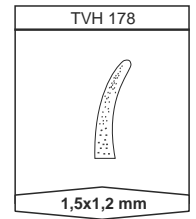
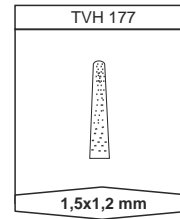
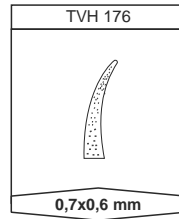
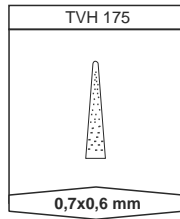
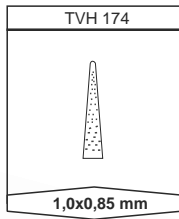
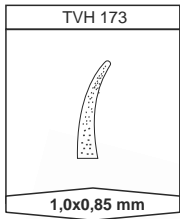
TVH 161 - TVH 166



TVH 167 - TVH 172

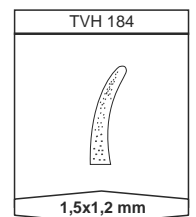
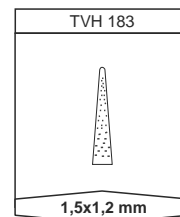
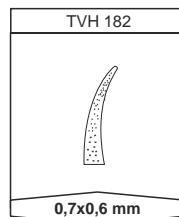
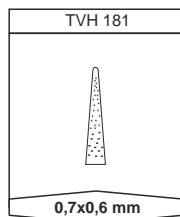
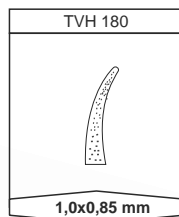
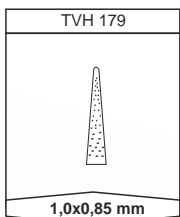


TVH 173 - TVH 178



Overall length 230 mm  
9.1 inches  
Round handle d=9 mm

TVH 179 - TVH 184

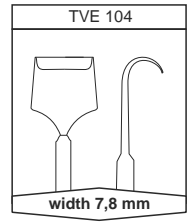
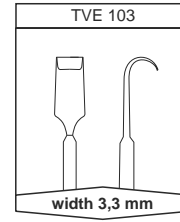
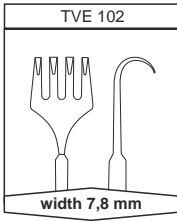
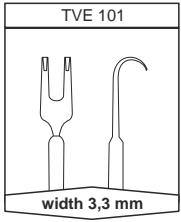


Overall length 240 mm  
9,4 inches  
Flat handle d=9 mm wide



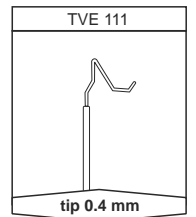
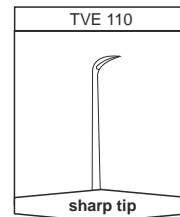
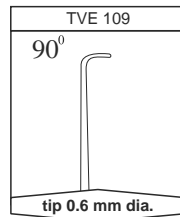
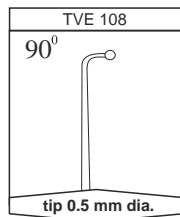
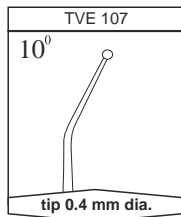
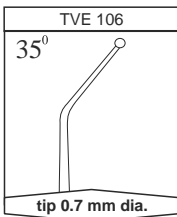
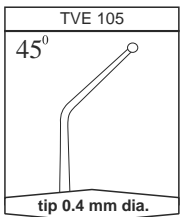
**MICROVASCULAR CATALOG**  
**SECTION OF VARIOUS INSTRUMENTS**

## TVE 101 - TVE 104



Hook  
Round handle d=6 mm  
Overall length 200 mm

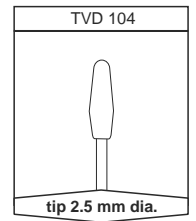
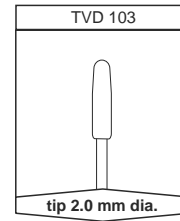
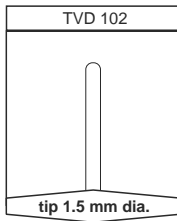
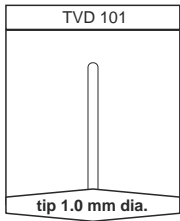
## TVE 105 - TVE 111



180  
D=6

Hook  
Length 8.2 mm  
Round handle d=6 mm  
Overall length 180 mm

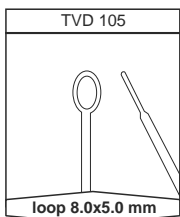
## TVD 101 - TVD 104



D=6  
180

TVD 105

Bougie Vascular  
Round handle d=6 mm  
Overall length 180 mm



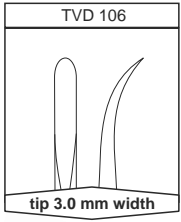
8,0 5,0  
d=6  
200

Loop 8,0 x 5,0 mm  
Round handle d=6 mm  
Overall length 200 mm



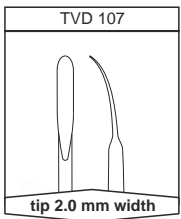


TVD 106



200

TVD 107



220

Straight dissector  
Working tip 3 mm width  
Overall length 200 mm

Bayonet dissector  
Working tip 2 mm wide  
Overall length 220 mm

TVZ 118



Vascular clip  
little  
Overall length 16 mm

/  
16

TVZ 119



Vascular clip  
middle  
Overall length 18 mm

/  
18

TVZ 120



Vascular clip  
big  
Overall length 20 mm

/  
20

TVZ 121



TVZ 122



Bulldog clamp  
Vascular  
8 mm

8 mm

TVZ 123



Bulldog clamp  
Vascular  
12 mm

12 mm

TVZ 124



Bulldog clamp  
Vascular  
17 mm

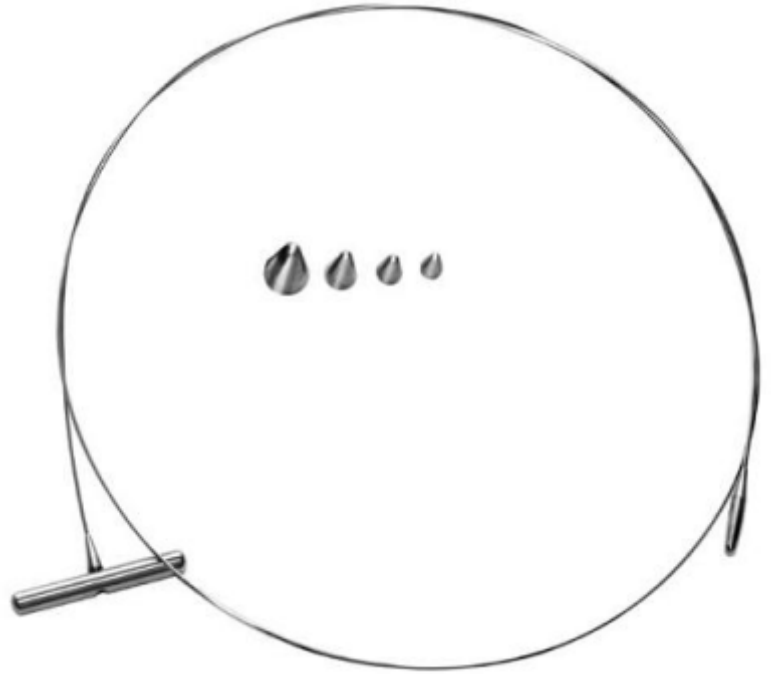
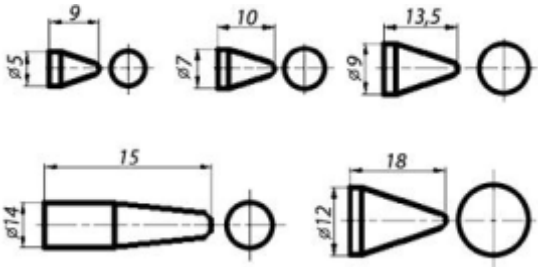
17 mm

TVZ 125



Little microsurgical retractor  
Overall length 96 mm

TVD 126



5  
( )

TVC 101

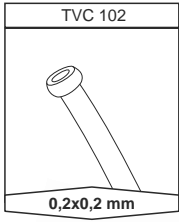
Bougie-venoekstraktor  
microsurgical complete  
with 5 interchangeable  
nozzles (for Nabatovu)



200

Aspiration and irrigation  
cannula  
Overall length 200 mm

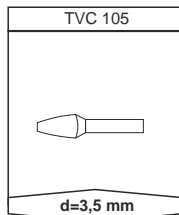
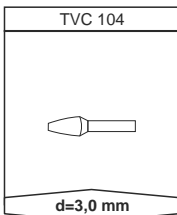
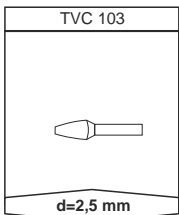
## TVC 102



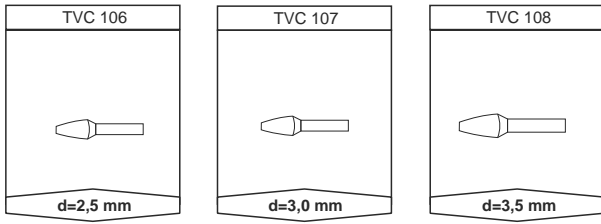
D=2.0  
D=8  
200

Probe-cannula for introduction  
contrast substance  
Tip 2.0 dia.  
Round handle d=8 mm  
Overall length 200 mm

## TVC 103 - TVC 105



## TVC 106 - TVC 108



100

Overall length 100 mm



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