

**Internal Thoracic Artery Holder**  
for Coronary Artery Bypass Grafting



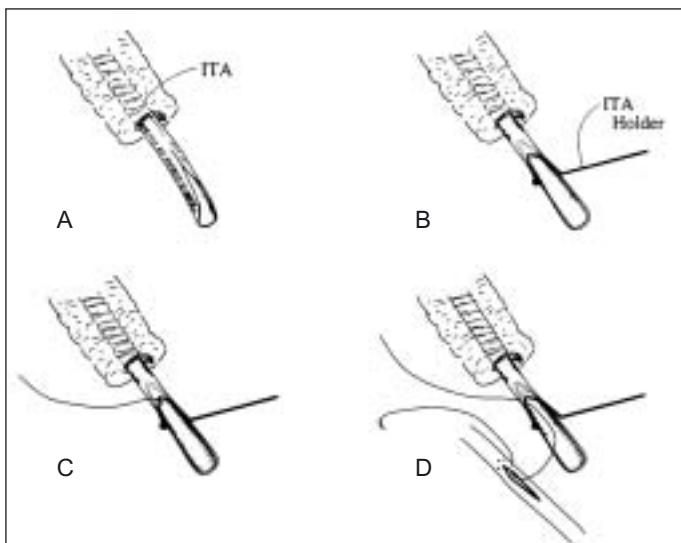
- minimized endothelial injury of the arterial conduit
- easy exposure of the heel
- precision in placing sutures with excellent visualization
- good patency at the anastomosis site
- also suitable for opening the side portion of the saphenous vein graft or opening the lumen of the proximal edge of a coronary arteriotomy and other applications during coronary surgery



03-7000  
I.T.A.

03-7001  
I.T.A.

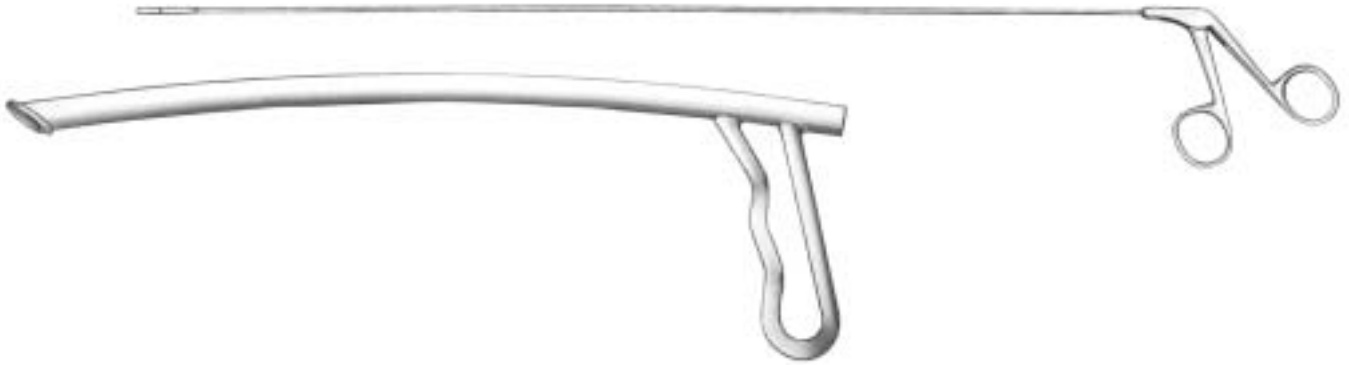
03-7100  
Vena Saphena



(A) An incision is made in the anterior wall of the internal thoracic artery (I.T.A.). The arterial conduit is placed on the side of the coronary arteriotomy. (B) The I.T.A. holder is inserted to the heel, (C) and then it is possible under good visualization to suture the arterial conduit with an outside-to-inside stitch. (D) The running suture is placed around the proximal angle.

This arterial graft holder was designed to facilitate coronary artery bypass grafting using arterial conduits. It is possible to open the heel of the arterial conduit and stitch the most difficult angle of the anastomosis under optimal visualization. This internal thoracic artery holder is atraumatic and protects the arterial conduit wall from crush injuries caused by vascular forceps. Anastomosis without the endothelial injury may provide long-term patency of the coronary bypass graft.

Developed in cooperation with: Prof. H. Matsuda and Dr. H. Satoh, Osaka University Medical School, Osaka, Japan



**Straight Tunneling Tubes**

03-5370	28 cm / 11"
03-5375	38 cm / 15 1/4"
03-5377	68 cm / 26 1/4"

**Straight Tunneling Forceps**

03-5385	38 cm / 15 1/4"
03-5390	48 cm / 19 1/4"
03-5392	78 cm / 30 3/4"



**Curved Tunneling Tube**

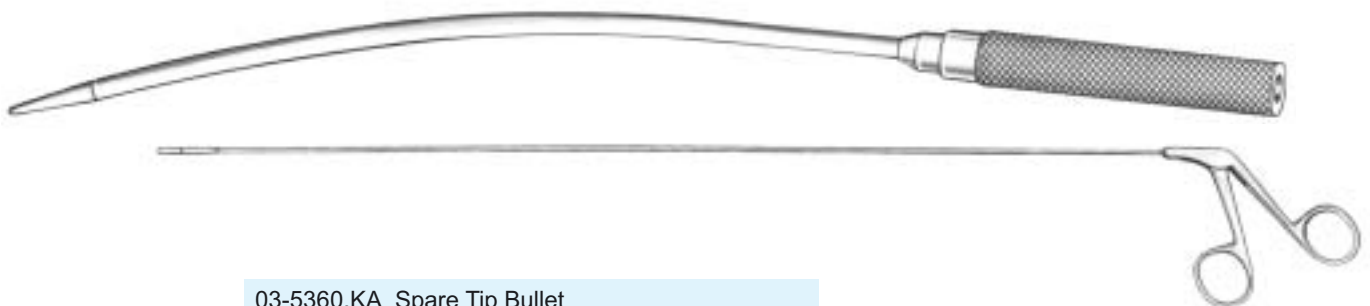
03-5380	28 cm / 11"
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**Curved Tunneling Forceps**

03-5395	38 cm / 15 1/4"
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**Bullet-Tunneler**

Removeable bullet tip provides for maximum tissue protection while tunneling



**03-5360.KA Spare Tip Bullet**

**Tube with bullet**

03-5360	Length 30 cm / 12"
03-5365	Length 40 cm / 16"
03-5366	Length 50 cm / 20"
03-5367	Length 70 cm / 27 1/2"

**Tunneling Forceps**

03-5385	Length 38 cm / 15 1/4"
03-5390	Length 48 cm / 19 1/4"
03-5391	Length 58 cm / 22 7/8"
03-5392	Length 78 cm / 30 3/4"

Ruler



05-0500	30 cm
05-0501	20 cm
05-0502	15 cm
05-0503	10 cm

Aorta Compressor



03-6560	35 cm / 14"
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DeBakey  
Tunneler



21-0300	50 cm / 20"
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Kamar  
Annulus Dilator and Sizer



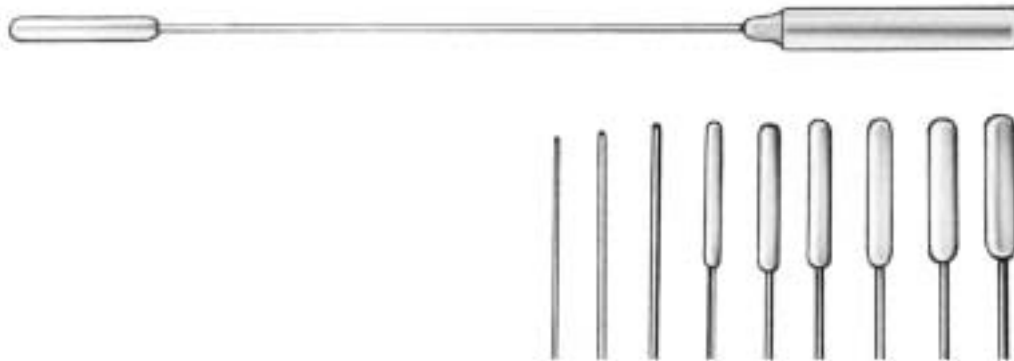
These aortic annular dilators and snaring technique allow for enlarging a narrow aortic annulus to two more sizes while saving fibrous continuity of the cardiac skeleton. Also usable as sizers for measurement.

03-5400	Ø 17 / 18 mm	12.5 cm / 5"
03-5401	Ø 19 / 20 mm	12.5 cm / 5"
03-5402	Ø 21 / 22 mm	12.5 cm / 5"
03-5403	Ø 23 / 24 mm	12.5 cm / 5"
03-5404	Ø 25 / 26 mm	12.5 cm / 5"
03-5405	Ø 27 / 28 mm	12.5 cm / 5"

Developed in cooperation with: Rifaat Kamar, MD,  
National Heart Institute, Cairo, Egypt

**Garrett**

Vascular Dilators



Length cm / "	Ø 0.5 mm	Ø 1.0 mm	Ø 1.5 mm	Ø 2.0 mm	Ø 2.5 mm	Ø 3.0 mm	Ø 3.5 mm	Ø 4.0 mm	Ø 4.5 mm	Ø 5.0 mm	Ø 7.0 mm	Ø 9.0 mm	Set
14 / 5½	21-0101	21-0102	21-0103	21-0104	21-0105	21-0106	21-0107	21-0108	21-0109	21-0110	–	–	21-0100
19 / 7½	21-0121	21-0122	21-0123	21-0124	21-0125	21-0126	21-0127	21-0128	21-0129	21-0130	21-0131	21-0132	21-0120
21 / 8¼	21-0141	21-0142	21-0143	21-0144	21-0145	21-0146	21-0147	21-0148	21-0149	21-0150	21-0151	21-0152	21-0140
35 / 14	21-0161	21-0162	21-0163	21-0164	21-0165	21-0166	21-0167	21-0168	21-0169	21-0170	21-0171	21-0172	21-0160

Also available with soft silver wires on inquiry (add ".SI" behind the Art.-No.)

**Cooley**

Vessel Dilators with color-coded aluminium handle with extra thin steel wires or nitinol wires (memory-metal)



Length	Ø	Steel wire	Silver wire	Nitinol wire (memory)	Color code
20 cm / 8"	0.5 mm	21-0050	21-0050.SI	21-0080	Black
20 cm / 8"	1.0 mm	21-0051	21-0051.SI	21-0081	Red
20 cm / 8"	1.5 mm	21-0052	21-0052.SI	21-0082	Blue
20 cm / 8"	2.0 mm	21-0053	21-0053.SI	21-0083	Yellow
20 cm / 8"	2.5 mm	21-0054	21-0054.SI	21-0084	Green
20 cm / 8"	3.0 mm	21-0055	21-0055.SI	21-0085	Magenta
15 cm / 6"	0.5 mm	21-0060	21-0060.SI	21-0070	Black
15 cm / 6"	1.0 mm	21-0061	21-0061.SI	21-0071	Red
15 cm / 6"	1.5 mm	21-0062	21-0062.SI	21-0072	Blue
15 cm / 6"	2.0 mm	21-0063	21-0063.SI	21-0073	Yellow
15 cm / 6"	2.5 mm	21-0064	21-0064.SI	21-0074	Green
15 cm / 6"	3.0 mm	21-0065	21-0065.SI	21-0075	Magenta

Instrument Cassettes



for 6 dilators

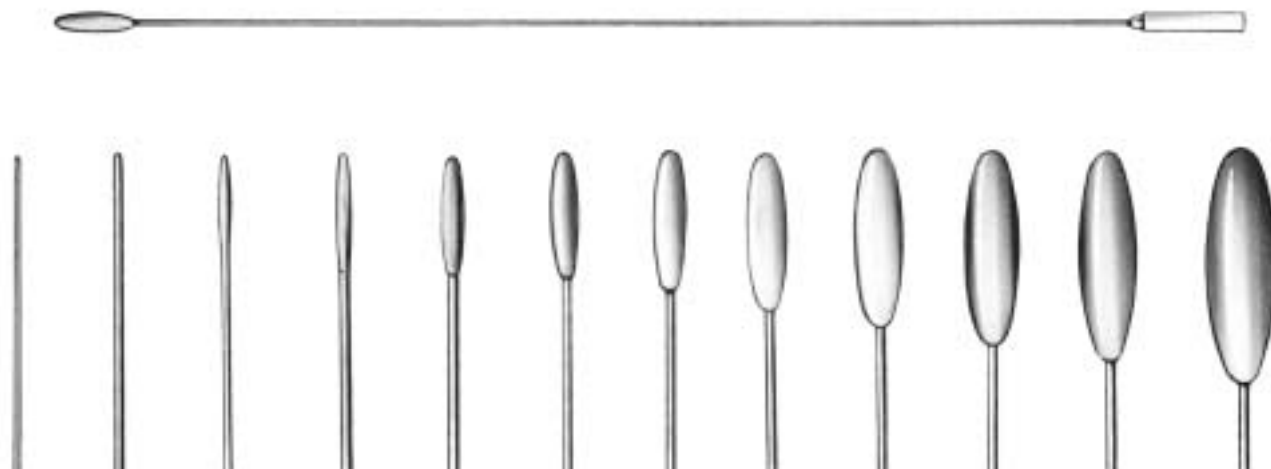
21-0118 203 x 114 x 15 mm



for 12 dilators

21-0119 203 x 114 x 30 mm

**DeBakey**



Length cm / "	Ø 1.0 mm	Ø 1.5 mm	Ø 2.0 mm	Ø 2.5 mm	Ø 3.0 mm	Ø 4.0 mm	Ø 5.0 mm	Ø 6.0 mm	Ø 7.0 mm	Ø 8.0 mm	Ø 9.0 mm	Ø 10.0 mm	Set of 12
19/7½	21-0200	21-0201	21-0202	21-0203	21-0204	21-0205	21-0206	21-0207	21-0208	21-0209	21-0210	21-0211	21-0215
38/15¼	21-0220	21-0221	21-0222	21-0223	21-0224	21-0225	21-0226	21-0227	21-0228	21-0229	21-0230	21-0231	21-0235

Also available with soft silver wires on inquiry (add ".SI" behind the Art.-No.)

**Valvulotome**

with ball tip



Retrograde

03-7500	30.5 cm / 12"
03-7505	25 cm / 10"
03-7510	23 cm / 9"

Antegrade

03-7520	16 cm / 6½"
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**Hegar**

Dilators (double-ended)



21-8230	Ø 1.0 / 2.0 mm	20 cm / 8"
21-8231	Ø 3.0 / 4.0 mm	20 cm / 8"
21-8232	Ø 5.0 / 6.0 mm	20 cm / 8"
21-8233	Ø 7.0 / 8.0 mm	20 cm / 8"
21-8234	Ø 9.0 / 10.0 mm	20 cm / 8"
21-8235	Ø 11.0 / 12.0 mm	20 cm / 8"
21-8236	Ø 13.0 / 14.0 mm	20 cm / 8"
21-8237	Ø 15.0 / 16.0 mm	20 cm / 8"
21-8238	Ø 17.0 / 18.0 mm	20 cm / 8"
21-8239	Ø 19.0 / 20.0 mm	20 cm / 8"
21-8240	Ø 21.0 / 22.0 mm	20 cm / 8"
21-8241	Ø 23.0 / 24.0 mm	20 cm / 8"
21-8242	Ø 25.0 / 26.0 mm	20 cm / 8"

Set of 8:

21-8245	Ø 3.0/4.0 – 17.0/18.0 mm	20 cm / 8"
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**Hegar**

Dilators (single-ended)



21-8201	Ø 1.0 mm	18.5 cm / 7 1/4"
21-8202	Ø 2.0 mm	18.5 cm / 7 1/4"
21-8203	Ø 3.0 mm	18.5 cm / 7 1/4"
21-8204	Ø 4.0 mm	18.5 cm / 7 1/4"
21-8205	Ø 5.0 mm	18.5 cm / 7 1/4"
21-8206	Ø 6.0 mm	18.5 cm / 7 1/4"
21-8207	Ø 7.0 mm	18.5 cm / 7 1/4"
21-8208	Ø 8.0 mm	18.5 cm / 7 1/4"
21-8209	Ø 9.0 mm	18.5 cm / 7 1/4"
21-8210	Ø 10.0 mm	18.5 cm / 7 1/4"
21-8211	Ø 11.0 mm	18.5 cm / 7 1/4"
21-8212	Ø 12.0 mm	18.5 cm / 7 1/4"
21-8213	Ø 13.0 mm	18.5 cm / 7 1/4"

21-8214	Ø 14.0 mm	18.5 cm / 7 1/4"
21-8215	Ø 15.0 mm	18.5 cm / 7 1/4"
21-8216	Ø 16.0 mm	18.5 cm / 7 1/4"
21-8217	Ø 17.0 mm	18.5 cm / 7 1/4"
21-8218	Ø 18.0 mm	18.5 cm / 7 1/4"
21-8219	Ø 19.0 mm	18.5 cm / 7 1/4"
21-8220	Ø 20.0 mm	18.5 cm / 7 1/4"
21-8221	Ø 21.0 mm	18.5 cm / 7 1/4"
21-8222	Ø 22.0 mm	18.5 cm / 7 1/4"
21-8223	Ø 23.0 mm	18.5 cm / 7 1/4"
21-8224	Ø 24.0 mm	18.5 cm / 7 1/4"
21-8225	Ø 25.0 mm	18.5 cm / 7 1/4"
21-8226	Ø 26.0 mm	18.5 cm / 7 1/4"