

EC/IC Bypass Set



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EC/IC Bypass Set FISCHER

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EC/IC Bypass Set STEINBERG

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The keyhole technique

Extracranial to intracranial (EC-IC) bypass is a surgical procedure to increase cerebral blood flow.

Several micro-anastomotic procedures have been established for connecting branches of the extracranial circulation with intracranial branches. The most common EC-IC bypass is an end-to-side anastomosis between the superficial temporal artery (STA) and a distal branch of the middle cerebral artery (MCA). In cooperation with Gerrit Fischer, MD, Department of Neurosurgery, Saarland University, Homburg, Germany, we created this specifically designed set to meet the high demands of these procedures.

The instruments in this set are precisely adapted to the requirements of standard STA-MCA bypass procedures especially via a minimized approach as well as for deeper exposures and may also be used for any other demanding anastomoses.

KEY FEATURES

Ellipse™ handle design

- secure grip of a flat handle
- easy rotation of a round handle

Medium working length and slightly bent tips

- improved maneuverability especially in narrow working areas of a minimized approach or deep exposures

Microforceps with diamond coated tips (d-coated)

- secure grasping of suture material during anastomosis

Arteriotomy scissors

- smooth and atraumatic vessel incision

Specifically shaped temporary vessel clips

- easy application in narrow working areas



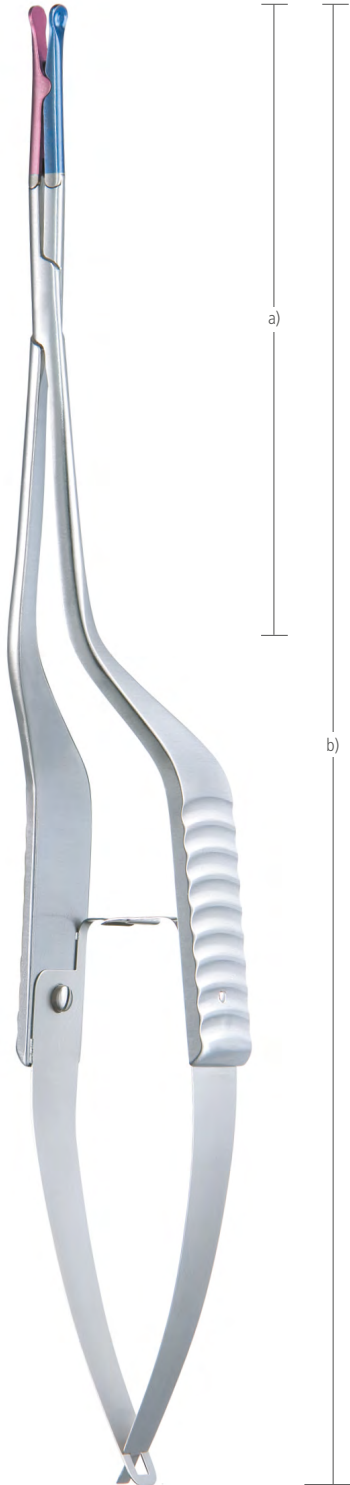
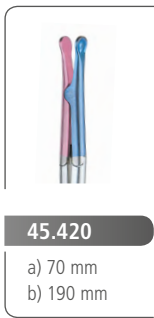
Gerrit Fischer, MD
Homburg, Germany

The EC-IC bypass is an appealing, yet exceptional and demanding microsurgical procedure. This specifically designed bypass set was assembled with great care to precise maneuverability and delicate grasping qualities. The incorporation of newly developed details and unique features make these instruments convenient tools to work with even under unfamiliar conditions of deep exposures or minimized approaches.

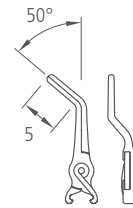
EC/IC BYPASS SET

acc. to Gerrit Fischer

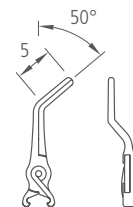
L-Aneurysm-Clip Applier



Mini Bypass Clips, Temporary



S.45.308
6,5 mm
0,58 N | 60 g



S.45.309
6,5 mm
0,58 N | 60 g



Dissector handle



46.090

128 mm / 5"

Micro Ruler Dissector



46.119.01

5 mm scale
150 mm / 6"



L-Line Memory Dissector




Dissector blunt, cylindrical

46.225

ø 0,8 mm




L-Line Ellipse Micro Forceps




straight

64.306.01
tips 0,25, 6 mm
d-coated, 180 mm / 7"




straight

64.306.11
tips 0,2 mm,
180 mm / 7"



curved

64.336.01
tips 0,25, 6 mm
d-coated, 180 mm / 7"



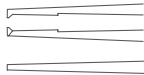
straight

64.346.01
ring \varnothing 1,0 x 0,5 mm,
d-coated, 180 mm / 7"



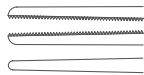
Fig. 64.346.01

Micro Forceps



straight

64.366.12
1 x 2 teeth, tip 0,7 mm,
6,0 mm tying platform,
round handle, 180 mm / 7"



straight

64.356.02
1,2 x 2 mm, De Bakey
serration, round handle
180 mm / 7"



Fig. 64.366.12

L-Line Ellipse Micro Scissors



straight

64.006.11

sharp, blade 12 mm,
180 mm / 7"



curved

64.016.11

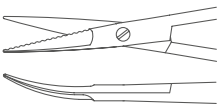
sharp, blade 12 mm,
180 mm / 7"



curved

64.036.01

Vannas pointed,
180 mm / 7"



curved

64.056.01

sharp, blade 12 mm
serrated, 180 mm / 7"



64.999.01

arteriotomy scissors,
180 mm / 7",
including tray

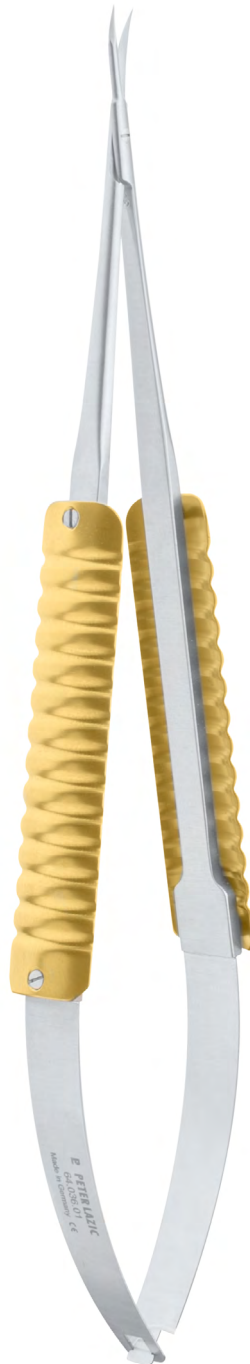
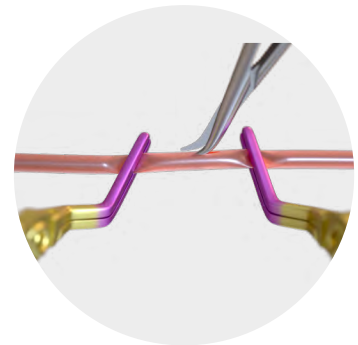


Fig. 64.036.01



Ellipse Instruments during a surgery

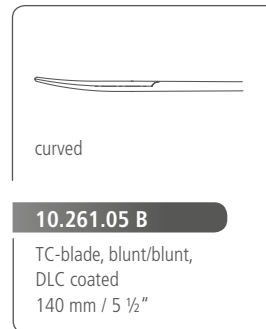
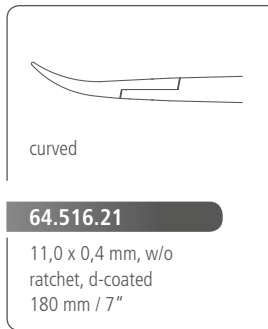


Usage of the needle type arteriotomy scissors, to make a precise cut for the anastomosis

EC/IC BYPASS SET
acc. to Gerrit Fischer

L-Line Ellipse Micro Needle Holder

Metzenbaum Scissors



Bipolar Forceps



0,2 x 6 mm

69.202.00

a) 180 mm / 7"



0,7 x 6 mm

69.222.00

a) 180 mm / 7"



0,2 x 6 mm

69.202.10

a) 180 mm / 7"



0,7 x 6 mm

69.222.10

a) 180 mm / 7"



Fig. 69.222.00

EC/IC BYPASS SET

acc. to Gerrit Fischer

64.021.10

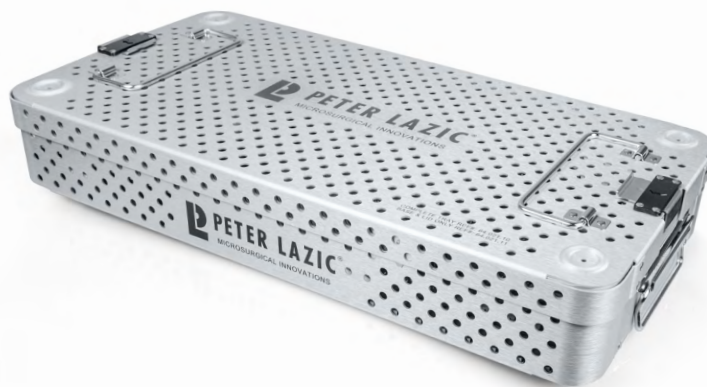
Complete Tray:

This tray offers storage for all parts of the EC/IC Fischer Set with dedicated space and marked for each component. Aluminium case with 2 inner trays for steam sterilization up to 3 bar (143°C / 289°F).
Dim.: 540 x 253 x 95 mm



64.021.11

Base and Lid only,
Dim.: 530 x 254 x 95 mm



64.021.12

Insert tray for EC/IC Fischer Set
without lid, Dim.: 377 x 244 x 38 mm

64.020.15

Lid only for insert tray



64.900.00 Complete set

Article-No	Description	Qty.
S.45.308	L-Aneurysm Mini Bypass Clip Titanium temporary, bayonet 5 mm, left angled, closing force 60 g / 0,58 N	1
S.45.309	L-Aneurysm Mini Bypass Clip Titanium temporary, bayonet 5 mm, right angled, closing force 60 g / 0,58 N	1
45.420	L-Aneurysm Clip Applier/Remover, bayonet, titanium jaw variable, 190 mm / 7 1/2"	1
46.090	Dissector handle straight, total length 128 mm	1
46.225	L-Line Memory Dissector, 0,8 mm, blunt, cylindrical	1
46.119.01	Micro Ruler Dissector, with 5 mm scale, 150 mm / 6"	1
64.306.01	L-Line Ellipse Micro Tying Forceps green, straight, tips 0,25, 6 mm d-coated, 180 mm / 7"	1
64.306.11	L-Line Ellipse Micro Forceps green, straight, tips 0,2 mm, 180 mm / 7"	2
64.336.01	L-Line Ellipse Micro Tying Forceps green, curved, tips 0,25, 6 mm d-coated, 180 mm / 7"	1
64.346.01	L-Line Ellipse Micro Forceps green, straight, ring ø 1,0 x 0,5 mm, d-coated, 180 mm / 7"	1
64.366.12	Micro Forceps straight, 1 x 2 teeth, tip 0,7 mm, 6,0 mm tying platform, 180 mm / 7" round handle	1
64.356.02	Micro Forceps straight, 1 x 2 mm, De Bakey serration, 180 mm / 7" round handle	1
64.006.11	L-Line Ellipse Micro Scissors yellow, straight, sharp, blade 12 mm, 180 mm / 7"	1
64.016.11	L-Line Ellipse Micro Scissors yellow, curved, sharp, blade 12 mm, 180 mm / 7"	1
64.036.01	L-Line Ellipse Micro Scissors yellow, curved, Vannas pointed, 180 mm / 7"	1
64.056.01	L-Line Ellipse Micro Scissors yellow, curved, sharp, blade 12 mm serrated, 180 mm / 7"	1
64.999.01	L-Line Ellipse Micro Scissors yellow, arteriotomy scissors, 180 mm / 7", including tray	1
10.261.05 B	Metzenbaum Scissors curved fino, TC-Blade, blunt/blunt, DLC coated, 140 mm	1
64.516.21	L-Line Ellipse Micro Needle Holder blue, curved, 11,0 x 0,4 mm, w/o ratchet; 180 mm / 7", d-coated	1
69.222.00	Bipolar Forceps, non-stick, straight, tip 0,7 x 6 mm, 180 mm / 7"	1
69.202.00	Bipolar Forceps, non-stick, straight, tip 0,2 x 6 mm, 180 mm / 7"	1
69.202.10	Bipolar Forceps, non-stick, angled, tip 0,2 x 6 mm, 180 mm / 7"	1
69.222.10	Bipolar Forceps, non-stick, angled, tip 0,7 x 6 mm, 180 mm / 7"	1
64.021.10	Complete EC/IC sterilization tray, with insert tray	1



The gold standard



Gary K. Steinberg, M. D., Ph. D.

Bernard and Ronni Lacroute-William Randolph Hearst
Professor of Neurosurgery and the Neurosciences
Chair, Department of Neurosurgery
Stanford University School of Medicine

The Steinberg bypass set is extremely useful for performing all types of microscopic vascular bypasses, including extracranial-to-intracranial and intracranial-to-intracranial anastomoses. I have found it essential for revascularizing brain tissue in cases of Moyamoya disease, intracranial aneurysms requiring artery sacrifice, and occasionally non-Moyamoya ischemic cerebrovascular disease.

The very fine, sharp scissors allow for safe microscopic opening of the arachnoid overlying and adherent to intracranial arteries and veins, as well for meticulous opening of intracranial arteries as small as 0.7 mm diameter. I have also used these scissors for difficult tumor cases, where the tumor is stuck to adjacent tissue and vessels. The jewelers forceps with smallest tips are essential for opening and handling the tiny arteries, and the jeweler tip bipolars are specially designed to seal sub-millimeter vessels.

The Lazic temporary vascular clips provided in the Steinberg bypass set were also uniquely designed with very thin, tapered blades but a more traditional sized spring that allows for non-traumatic, low profile but easy application and removal.

**Applying Forceps
for Yasargil Mini Clips**

**Yasargil Clip Mini
temporary**



not rotating

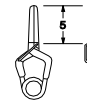
65.540

bayonet handle
185 mm / 7 1/4"



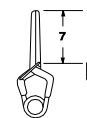
65.180 S

3 mm
0,88 N | 90 g



65.190 S

5 mm
0,69 N | 70 g



65.220 S

7 mm
0,69 N | 70 g

EC/IC BYPASS SET
acc. to Gary K. Steinberg

Micro Ruler Dissector



46.119.01

5 mm scale
150 mm / 6"

Dissector handle



46.090

128 mm / 5"

Micro Forceps

Littler Scissors

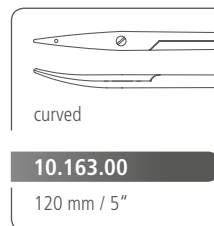
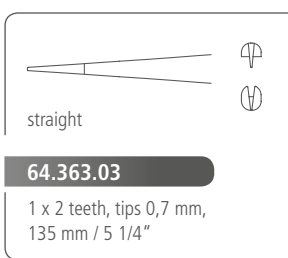
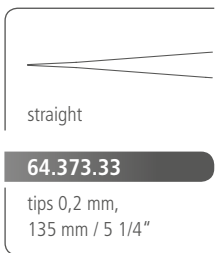
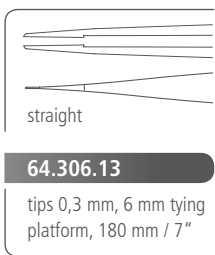


Fig. 64.373.33

EC/IC BYPASS SET
acc. to Gary K. Steinberg

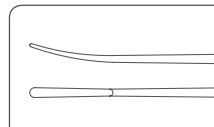
Scalpel handle



10.046.02

for Micro-Surgical Blades,
hexagon handle
100 mm / 4"

**Titanium Rhoton
Dissector**



46.366.12 T

no. 6, blade width 1,3 mm
angled, 190mm / 7 1/2"



Micro Scissors

Titanium Micro Needle Holder

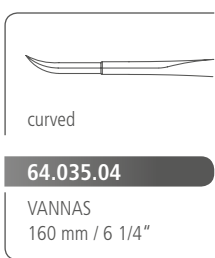
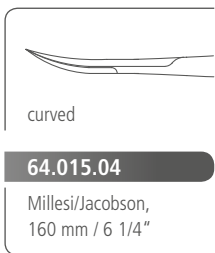
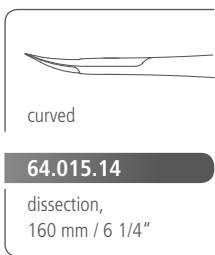


Fig. 64.015.14

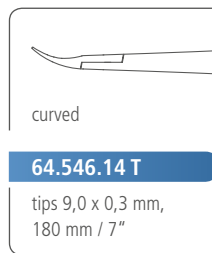
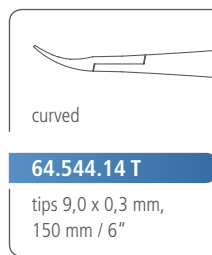
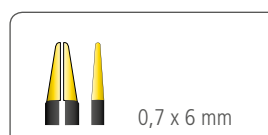


Fig. 64.544.14 T

Bipolar Forceps

NON-STICK
STRAIGHT WITH IRRIGATION
STRAIGHT TIPS

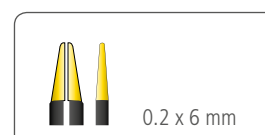


69.321.01

a) 160 mm / 6 1/4"



NON-STICK
STRAIGHT TIPS



69.201.01

a) 160 mm / 6 1/4"



Models only available with
US PIN connector



64.020.10

Complete Tray:

This tray offers storage for all parts of the EC/IC Steinberg Set with dedicated space and marked for each component. Aluminium case with 1 inner tray and 1 small PPSU tray for clips, steam sterilization up to 3 bar (143°C / 289°F).
Dim.: 540 x 253 x 95 mm



64.020.11

Base and Lid only,

Dim.: 530 x 254 x 95 mm

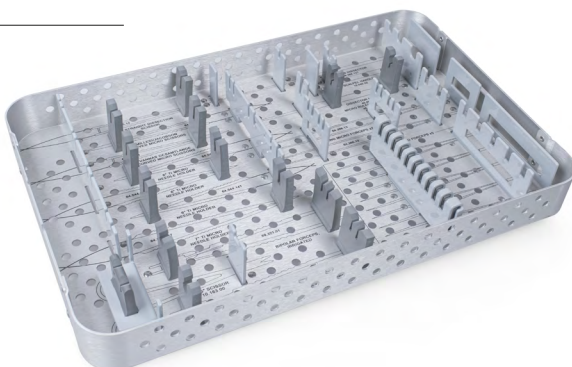


64.020.12

Insert tray for EC/IC Steinberg Set without lid, Dim.: 377 x 244 x 38 mm

64.020.15

Lid only for insert tray



64.020.16

Tray for 12 temporary clips



EC/IC BYPASS SET

acc. to Gary K. Steinberg

64.999.00 Complete set

Artikel-No.	Description	Qty.
64.306.13	Micro Forceps straight, tips 0,3 mm, 6 mm tying platform, 180 mm / 7", flat handle	2
64.373.33	Micro Forceps straight, tips 0,2 mm, 135 mm / 5 1/4", flat handle	3
64.363.03	Micro Forceps straight, 1 x 2 teeth , tips 0,7 mm, 135 mm / 5 1/4", flat handle	1
69.321.01	Bipolar Forceps, NON-STICK, straight tips 0.7 x 6 mm, w/irrigation, 160 mm / 6 1/4", flat handle	1
69.201.01	Bipolar Forceps, NON-STICK, straight tips 0.2 x 6 mm, 160 mm / 6 1/4", flat handle	1
64.015.14	Micro Scissors curved, dissection, 160 mm / 6 1/4", flat handle	1
64.015.04	Micro Scissors curved, Millesi/Jacobson, 160 mm / 6 1/4", flat handle	1
64.035.04	Micro Scissors curved, VANNAS, 160 mm / 6 1/4", flat handle	1
10.163.00	Little Scissors curved 120 mm / 5"	1
64.544.14 T	Titanium Micro Needle Holder, curved, tips 9,0 x 0,3 mm, 150 mm / 6" flat handle	3
64.546.14 T	Titanium Micro Needle Holder, curved, tips 9,0 x 0,3 mm, 180 mm / 7" flat handle	1
46.119.01	Micro Ruler Dissector, with 5 mm scale, 150 mm / 6"	1
46.090	Dissector handle straight, 128 mm / 5"	1
10.046.02	Scalpel handle for Micro-Surgical Blades, 100 mm / 4" hexagon handle	1
46.366.12 T	Titanium Rhoton Dissector no. 6, blade width 1 mm angled, 190mm / 7 1/2"	1
65.540	Applying Forceps for Yasargil Mini Clips, 170 mm bayonet handle	2
65.180 S	Yasargil Clip Mini temporary, 3 mm straight, narrow jaw, closing force 90 g	4
65.190 S	Yasargil Clip Mini temporary, 5 mm straight; narrow jaw, closing force 70 g	4
65.220 S	Yasargil Clip Mini temporary, 7 mm straight, closing force 70 g	4
64.020.10	Complete EC/IC sterilization tray, with insert tray and clip tray	1



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