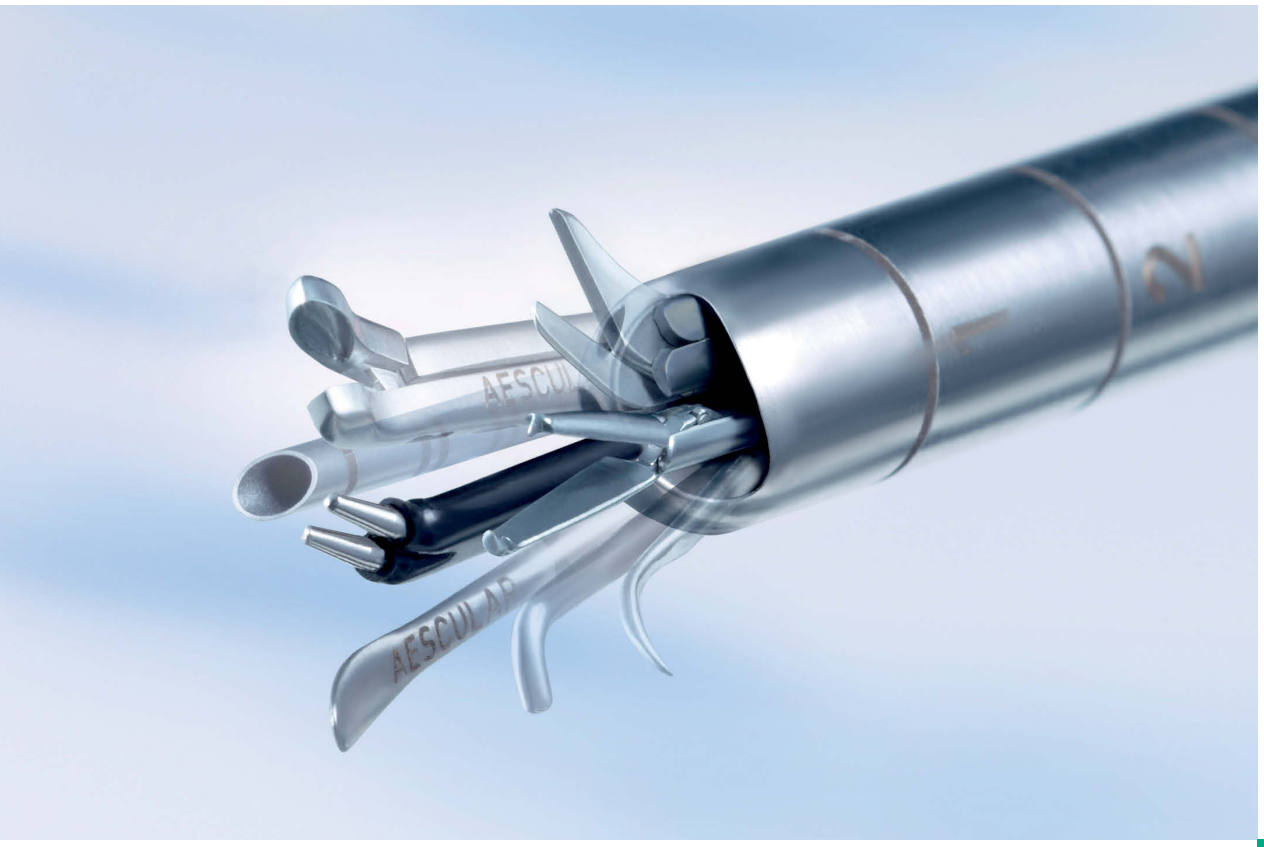
B BRAUN
SHARING EXPERTISE



NEUROSURGERY

AESCULAP® MINOP® InVent

Advanced Intraventricular Neuroendoscopy

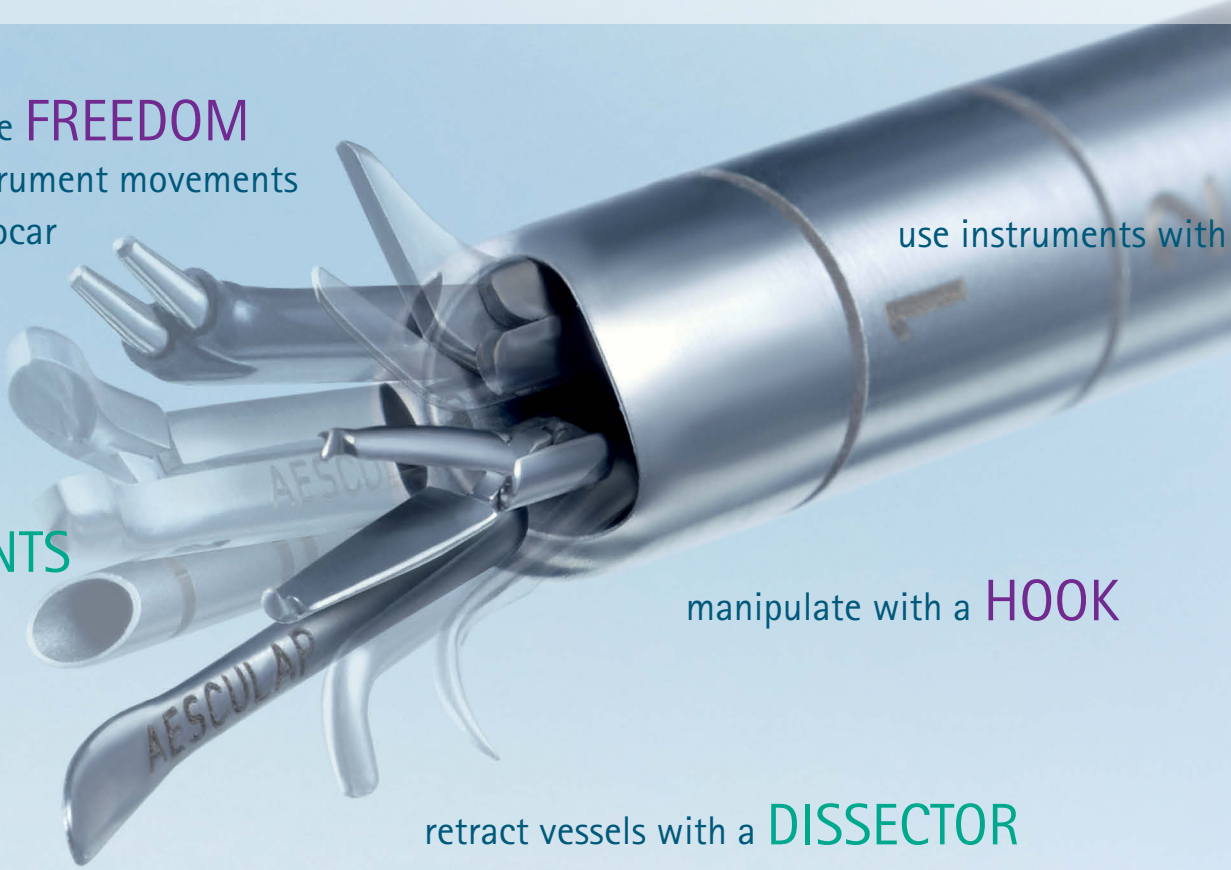
ADVANCED INTRAVENTRICULAR NEUROENDOSCOPY

MINOP® InVent

MINOP® InVent offering MORE for

experience the FREEDOM
of lateral instrument movements
within this trocar

use instruments with



have up to 32
INSTRUMENTS
available

manipulate with a HOOK

retract vessels with a DISSECTOR

have you ever operated through an
OVAL WORKING CHANNEL?

cut membranes with a KNIFE

your patients through LESS invasive techniques

MINIMIZE intraparenchymal trocar movements

ANGLED TIPS

true bi-instrumental GRASPING AND CUTTING

MICRO SURGICAL FLEXIBILITY meets intraventricular goals

ENJOY THE VIEW,
see the jaw of your endoscopic instrument

ADVANCED INTRAVENTRICULAR NEUROENDOSCOPY

MINOP® InVent – FULL SET

1 Holding Arm and Accessories
2 Tube Shaft Instruments
3 Shaft Instruments
4 Obturators
5 Trocar
6 30° Endoscope
7 Dissectors, Hook, Knife
8 Flexible Instruments
9 Suction Cannulas
10 Bipolar Electrodes
11 Monopolar Electrodes

MINOP® InVent – TROCAR AND ENDOSCOPE

- Larger trocar with an oval working channel allows innovative treatment options and multi-directional flexibility
- Bi-instrumental technique is similar to traditional Micro Neurosurgery, due to the increased freedom of movement
- For the first time, angled instruments can be used
- Up to 32 different instruments usable

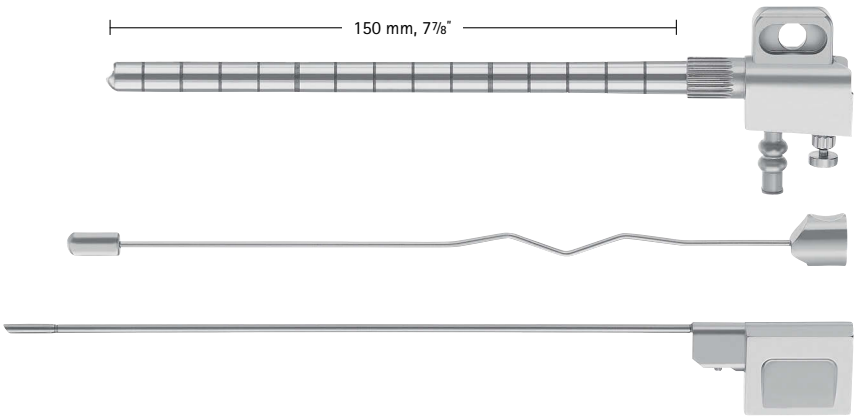
FH620R

Outer diam.: 8.3 mm, 3(4) channels

- Endoscope channel: diam. 2.8 mm
- Irrigation channel: diam. 1.4 mm

2 merging channels:

- Large working/overflow channel: 3.7 mm x 6.5 mm
- Small working channel: diam. 2.2 mm



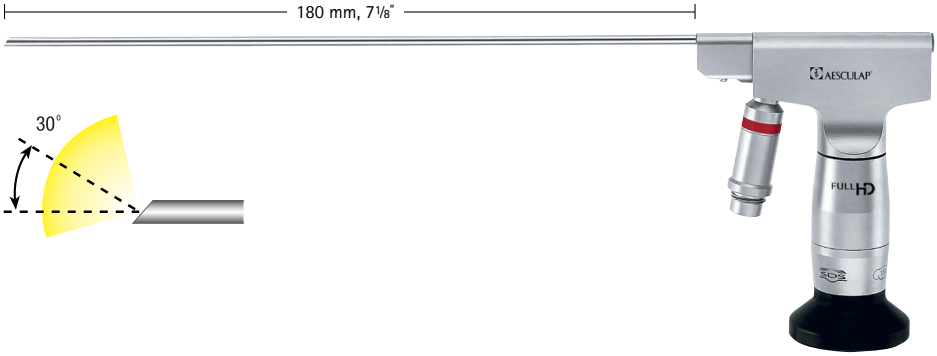
RT068R

MINOP® InVent adapter for fixation of MINOP® InVent trocar FH620R

PE204A

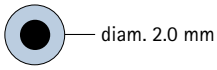
MINOP® InVent angled endoscope

- Direction of view 30°, upwards (red ring)
- Shaft diam. 2.7 mm
- Autoclavable



ADVANCED INTRAVENTRICULAR NEUROENDOSCOPY

MINOP® InVent – DISSECTORS, HOOK, KNIFE



FH629R

MINOP® InVent dissector,
tip width 2.2 mm

FH632R

MINOP® InVent hook,
90° blunt, hook deflection width 3.5 mm

FH630R

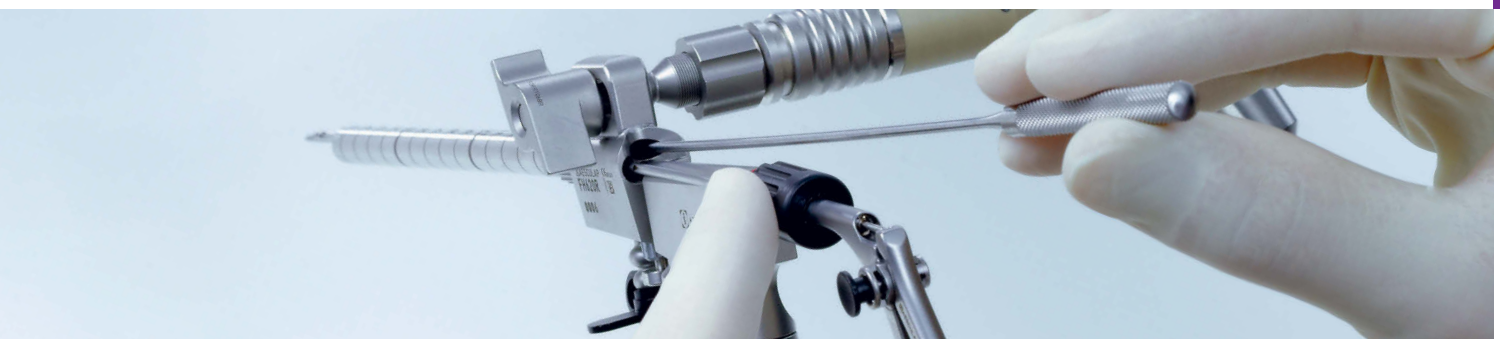
MINOP® InVent dissector,
tip width 1.7 mm

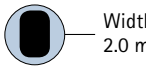
FH634R

MINOP® InVent knife,
backwards cutting, knife deflection width 3.0 mm

FH631R

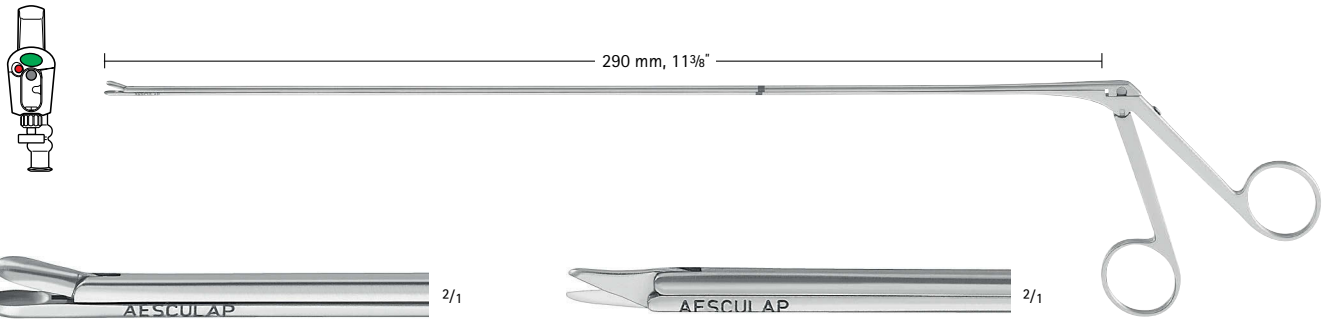
MINOP® InVent dissector,
tip width 1.0 mm





Width x Height:
2.0 mm x 3.1 mm

■ **Instruments, non-detachable**



2/1

FH621R

MINOP® InVent forceps,
straight

2/1

FH622R

MINOP® InVent forceps,
right

2/1

FH623R

MINOP® InVent forceps,
left

2/1

FH624R

MINOP® InVent grasping forceps,
straight

2/1

FH625R

MINOP® InVent scissors,
straight

2/1

FH626R

MINOP® InVent scissors,
left

2/1

FH627R

MINOP® InVent scissors,
right

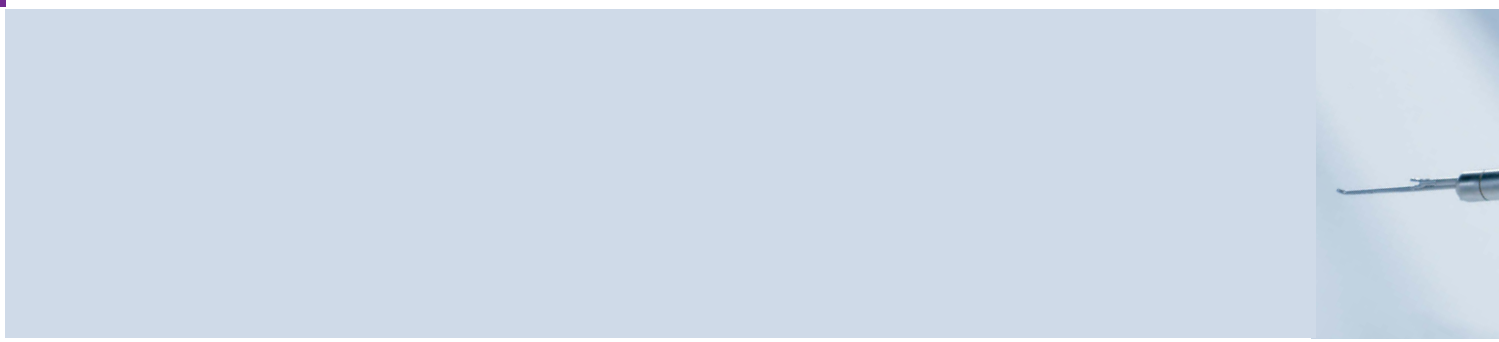
2/1

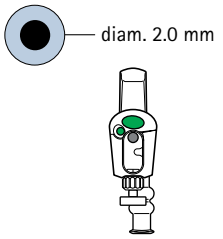
FH628R

MINOP® InVent scissors,
upwards

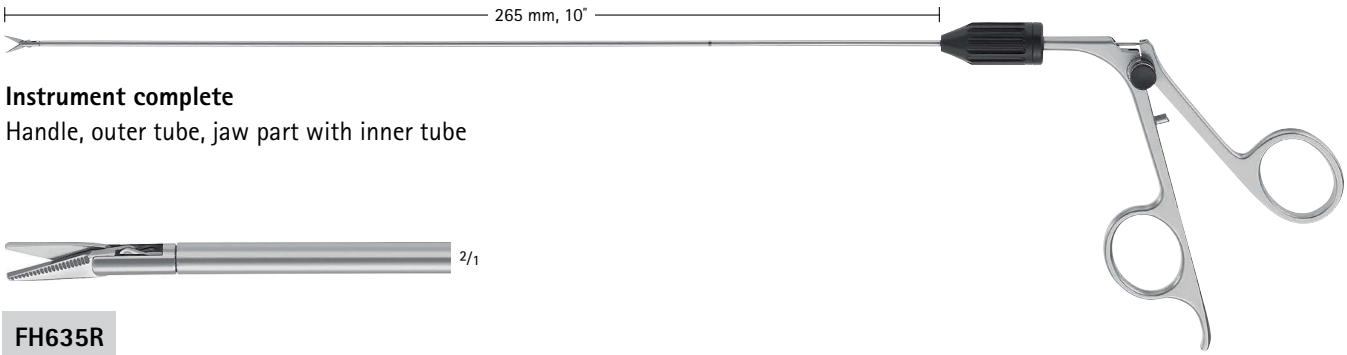
ADVANCED INTRAVENTRICULAR NEUROENDOSCOPY

MINOP® InVent – TUBE SHAFT INSTRUMENTS





- **Instruments, detachable**
- **Rotation wheel for rotation of working end**



Instrument complete
Handle, outer tube, jaw part with inner tube

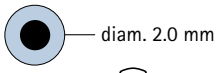
FH635R
MINOP® InVent scissors,
sharp / sharp

FH636R
MINOP® InVent scissors,
blunt / blunt

FH638R
MINOP® InVent grasping and dissecting forceps

FH637R
MINOP® InVent biopsy forceps

FH639R
MINOP® InVent surgical forceps,
1 x 2 teeth



FH635200

MINOP® InVent outer tube,
only

FF435R

MINOP® InVent scissors,
jaw part, sharp / sharp

FH633R

MINOP® InVent instrument handle,
only

FF436R

MINOP® InVent scissors,
jaw part, blunt / blunt

FF438R

MINOP® InVent grasping and dissecting forceps,
jaw part

FF437R

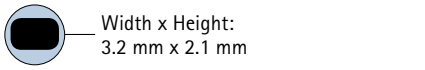
MINOP® InVent biopsy forceps,
jaw part

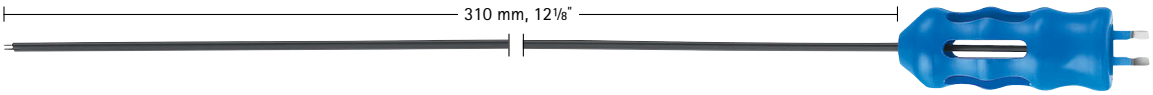
FF439R

MINOP® InVent surgical forceps,
jaw part, 1 x 2 teeth

ADVANCED INTRAVENTRICULAR NEUROENDOSCOPY

MINOP® InVent – BIPOLAR ELECTRODES





GK343R

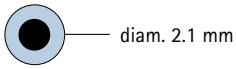
MINOP® InVent bipolar electrode,
0°, diam. 2.7 mm

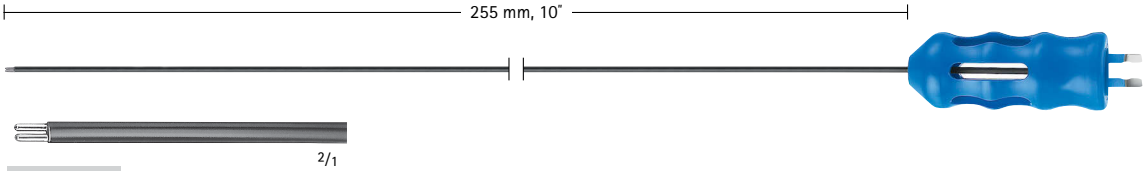
GK345R

MINOP® InVent bipolar electrode,
30°, diam. 2.7 mm

GK344R

MINOP® InVent bipolar electrode,
40°, diam. 2.7 mm





GK360R

Fork electrode, 0°, diam. 2.1 mm

GN130

Bipolar cable,
suitable for GN060, GN160, GN300, GN640

GK361R

Blunt electrode, diam. 1.1 mm

GK363R

Needle electrode, diam. 1.1 mm

GK364R

Hook electrode, 45°, diam. 2.2 mm

GK365R

Hook electrode, 70°, diam. 2.2 mm

GK362R

Hook electrode, 90°, diam. 2.2 mm

GK366R

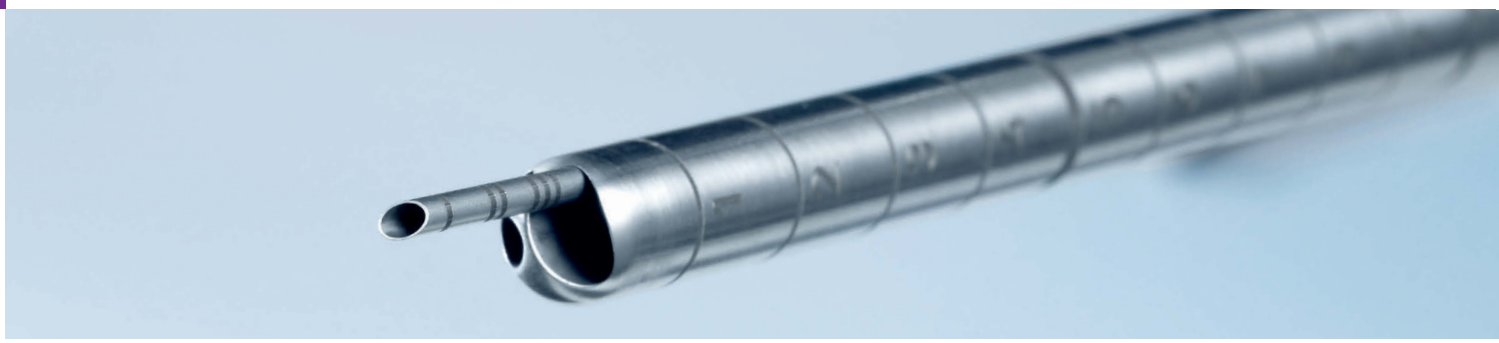
Hook electrode, 180°, diam. 2.2 mm

GN202

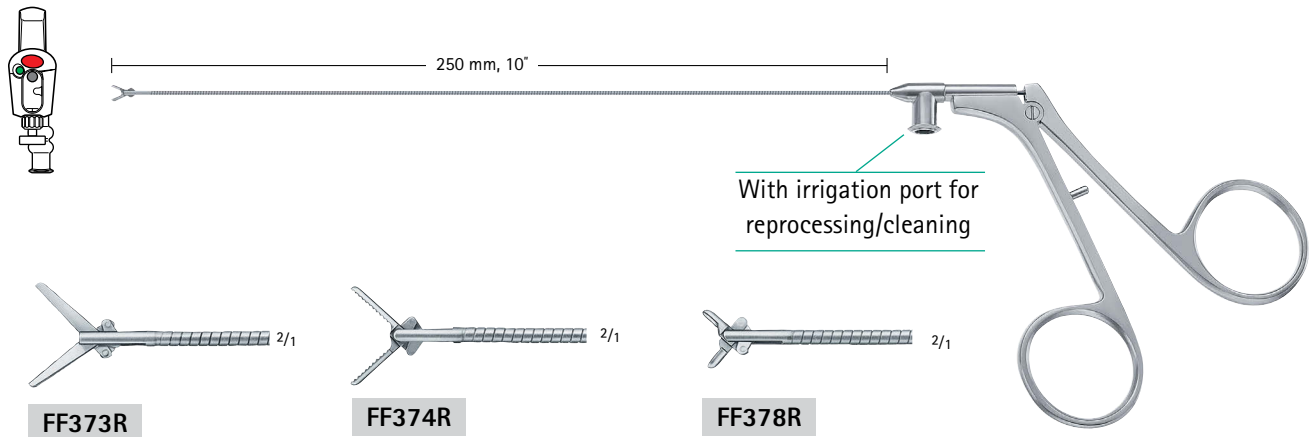
Monopolar cable, length 3.5 m
suitable for GN300, GN640

ADVANCED INTRAVENTRICULAR NEUROENDOSCOPY

MINOP® InVent – FLEXIBLE INSTRUMENTS AND SUCTION CANNULAS



diam. 1.0 mm ■ **non-detachable**



FF373R
Micro scissors

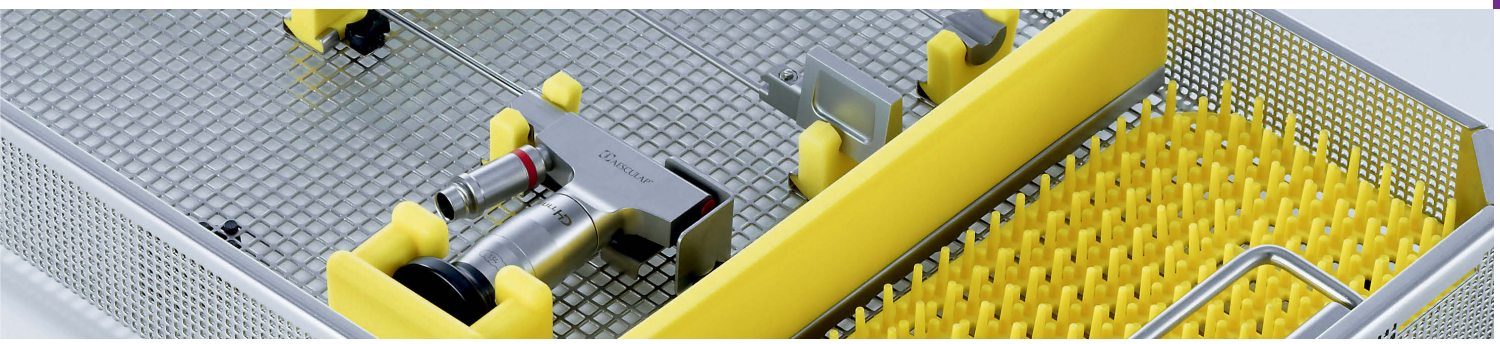
FF374R
Micro grasping and dissecting forceps

FF378R
Micro biopsy forceps

diam. 2.0 mm

FH606SU
Single use suction cannula,
blunt tip 0°, diam. 2.0 mm

FH607SU
Single use suction cannula,
sharp tip 45°, diam. 2.0 mm

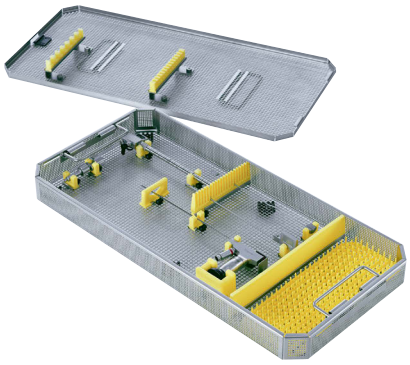


FH358R

Storage rack for MINOP® InVent trocar and endoscope

- With silicone protection, cushioning, tray and lid
- Only for reprocessing, not for transportation/shipment

L/W/H 540 x 253 x 56 mm

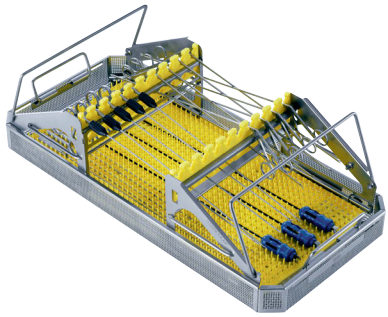


FH359R

Storage rack for MINOP® InVent instruments and electrodes

- With silicone protection, cushioning, tray without lid (lid not necessary)
- Only for reprocessing, not for transportation/shipment (instruments not included)

L/W/H 540 x 253 x 166 mm



JK440

Container body 1/1
for FF358R
without base perforation

Outside/Inside dimensions with lid:
L/W/H 592 x 285 x 108 mm
L/W/H 544 x 258 x 75 mm

JK444

Container body 1/1
for FF359R
without base perforation

Outside/Inside dimensions with lid:
L/W/H 592 x 285 x 209 mm
L/W/H 544 x 258 x 172 mm

JK486

Container lid 1/1
blue

ADVANCED INTRAVENTRICULAR NEUROENDOSCOPY

M-TRAC® - MECHANICAL HOLDING DEVICE

FF168R

M-TRAC® – Flexible holding device with mechanical fixation

- Total length: 107 cm
- Length of fixation bar: 46 cm
- Diameter of fixation bar: 20 mm
- Total weight: 0.7 kg
- Holding force: 4 kg
- Mechanical fixation by clamping handle
- Small, flexible joints for fine positioning
- Autoclavable 134°C, 5 minutes
- Full range of accessories/adapters for connecting Aesculap® endoscopes, trocars and instruments
- Holding arm fits into regular Standard 1/1 Container, see brochure no. C40402

FF280R

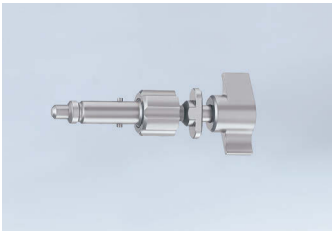
Flexible fixing element with ball joint, suitable for RT040R and FF168R

RT090R

Flexible fixing element with sprocket, suitable for RT040R and FF168R

FF151R

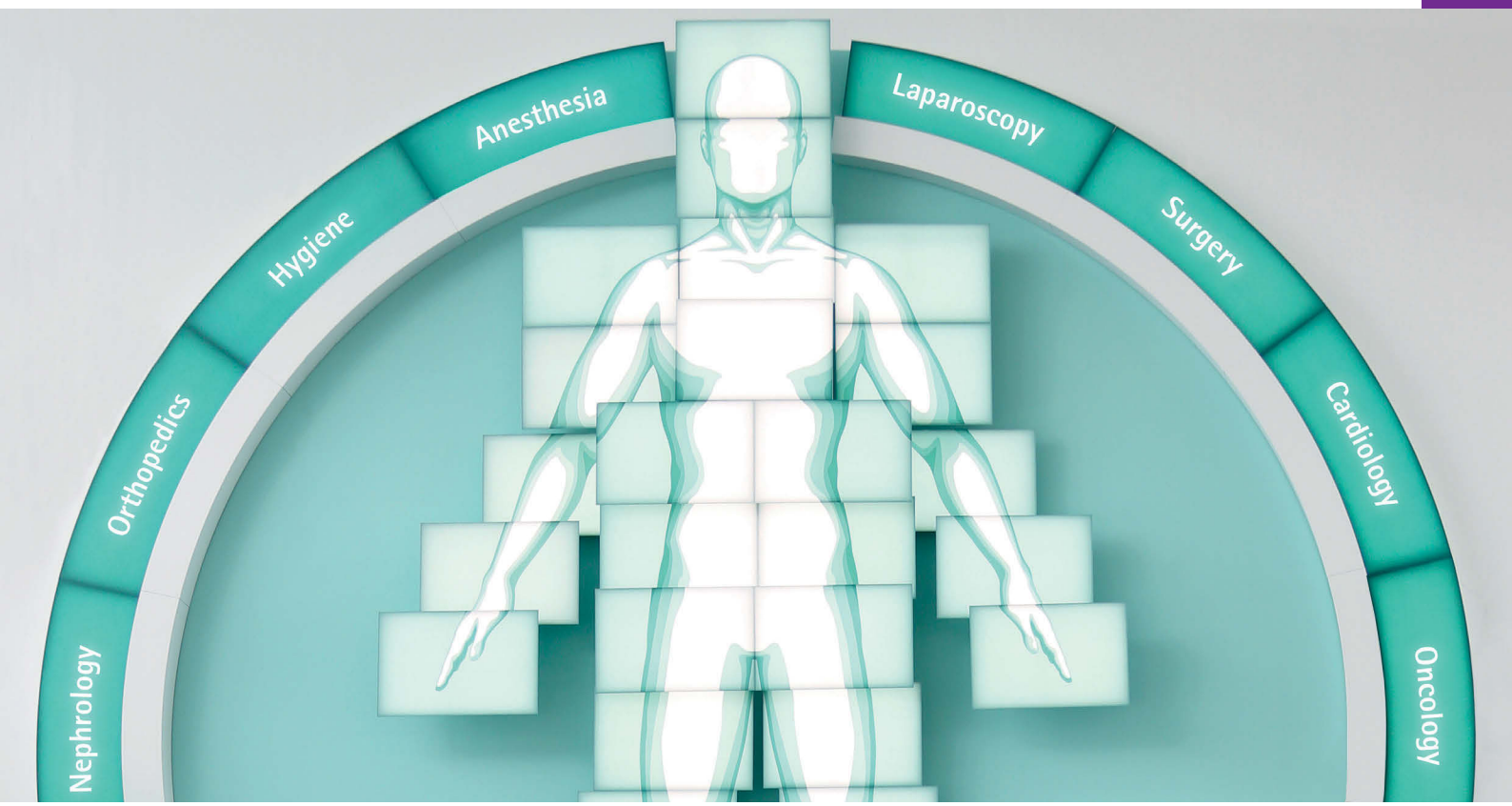
Rigid fixation element, suitable for RT040R and FF168R



RT068R

MINOP® InVent holding arm adapter for Aesculap® holding arms

AESCULAP ACADEMY
Forum for contemporary medicine.



Technical developments, new treatment methods, hospital management – the requirements placed on today's medical professionals are varied, which is why high-quality continuing professional development is more important than ever. This is precisely what Aesculap Academy stands for.

Its aim is clear: The Aesculap Academy wants to keep medical and specialist staff in hospitals and practices fit for the future. Founded in 1995 under the B. Braun Group, the Aesculap Academy is seen today around the world as an important forum for medical training and further professional education. It works with an interdisciplinary, independent and international approach and it strives for long-term partnerships. Thanks to tailored and interrelated modules, the participants can continually develop and build up their knowledge and skills throughout their career. This means they are always as well prepared as possible for their daily work and future tasks.

Take part in one of our international Neuroendoscopy courses.

For detailed information and registration please visit our website „www.aesculap-neuro.com" or „www.aesculap-academy.com" or contact your local B. Braun Aesculap representative.

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CME Fortbildungspunkte – Beantragt bei der Landesärztekammer

AESCULAP ACADEMY®

Tuttlingen | Berlin | Bochum

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