Aesculap MINOP® TREND

For transnasal neuroendoscopy on the pituitary gland and cranial base



Aesculap Neurosurgery





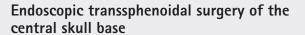


The endoscope is now widely established in intracranial neurosurgery and is in routine use. Neuroendoscopy has become an indispensable standard for both intraventricular and endoscopic assisted indications.

Increasing numbers of publications also bear witness to a strongly growing interest in transnasal endoscopic approaches. With advantages such as improved light intensity in the deep operating field and an expanded field of vision with direct visualization of the pathoanatomical structures, the TREND is moving more and more towards transnasal approaches.

However, the demands on a well balanced endoscopy system are very high. Not only must it have outstanding optical qualities but, it must also offer clever ergonomics to make the move from microscope to endoscope easier.

At the same time, it should also inspire advanced users to go further, for example with "extended approaches". Absolutely in line with this TREND, and specially developed for neurosurgery, is Aesculap's new TRansnasal ENDoscopy system – MINOP TREND.



Author: Robert Reisch

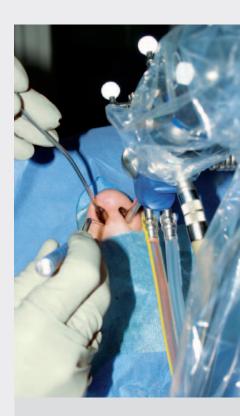
Head of the Division Minimally Invasive Endoscopic Neurosurgery

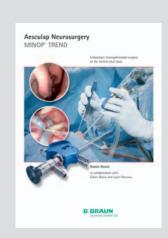
Department of Neurosurgery

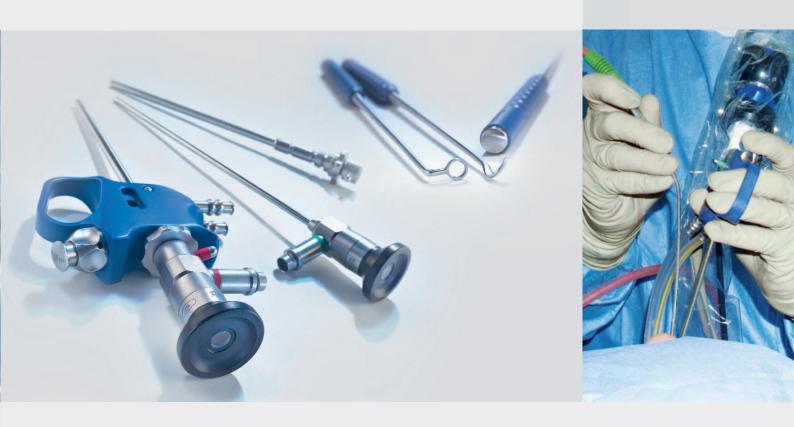
University Hospital Zurich, Switzerland

Chairman: Helmut Bertalanffy

"This illustrative operating manual provides effective assistance in introducing the endoscopic technique into the daily treatment of sellar and parasellar lesions via the transsphenoidal route. After a short historical background, the anatomy of the nasal cavity and the supra- and parasellar regions are illustrated focusing on an endoscopically adapted and applied description. The technique of the endosnasal transsphenoidal biportal-binostril approach is described in detail with illustrative cases. The conclusion consists of a comprehensive description of the Aesculap MINOP® TREND pituitary endoscope system with a configuration of newly developed instruments especially designed for transsphenoidal endoscopic surgery."







- Brilliant newly developed 4 mm optic provides reliable optical control of the surgical dissection
- Revolvable endoscope shaft with straight optics permits direct visualization of hidden corners of the operating field
- ► Slim handle for unimpeded paraendoscopic manipulation
- ► Ergonomic handle design and optimum weight distribution offer the faultless and precise handling like that of a micro instrument

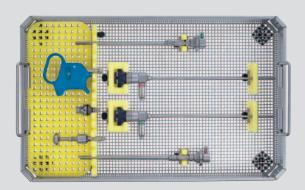
- ➤ Optimized suction and irrigation function continuous suction prevents the optic from misting. The trigger-controlled irrigation frees the endoscope from soiling and even provides additional irrigation of the operating field.
- ► Smooth and secure attachment to a holding arm for fatigue-free working with both hands
- ► Lightweight, stable connection to a navigation system permits direct navigation of the endoscope, providing additional safety in the operating field
- ► Elongated shaft for perfect visualization of deep structures, especially when using extended approaches to the cranial base.





FH615

Handle with irrigation button for FH610R and FH611R Ergonomic grasping part



FF357R

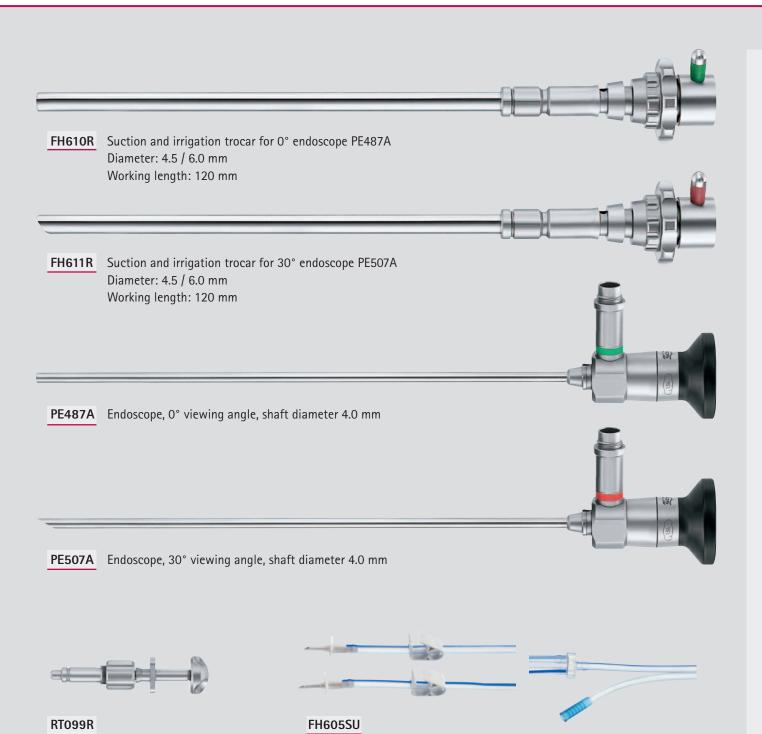
Storage tray with silicone padding and lid for all MINOP® TREND components Container for FF357R consisting of container body JK740 and lid (basic version) JK789



Product features and advantages at a glance:

- ▶ 4 mm straight (0° and 30°) optics with outstanding picture quality
- Optimum length for extended approaches to the cranial base
- ► Slim, ergonomic blue handle
- ► Integrated, trigger-controlled irrigation and cleaning mechanism for continuous suction in the operating site
- Possibility of direct connection to holding arm and navigation unit
- ► Well thought-out container system for safe storage





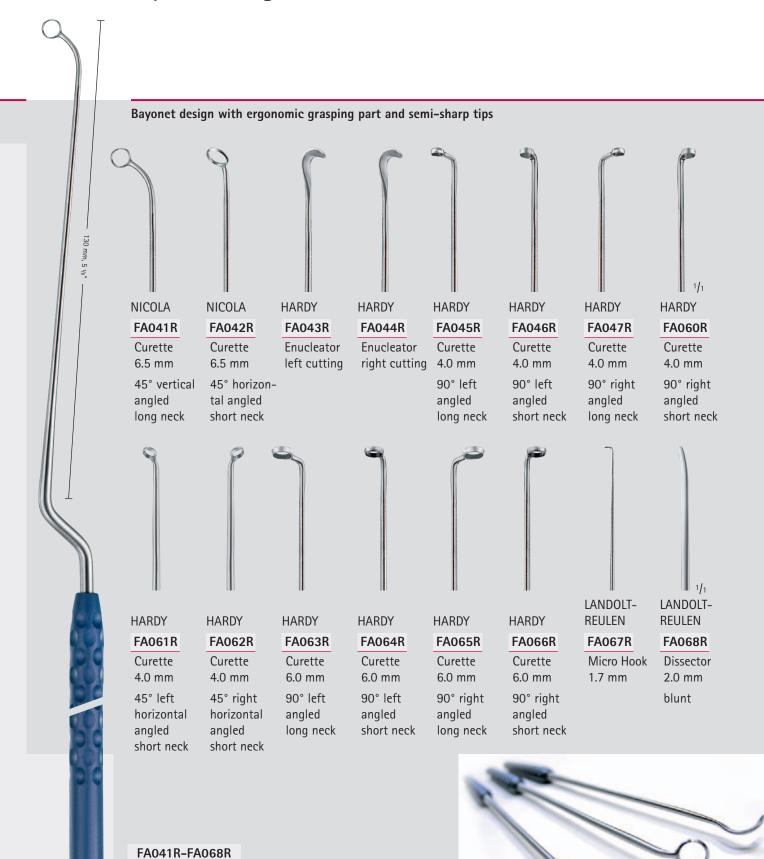
Adapter for Aesculap holding arm

Suction and irrigation tube, sterile, 4.5 m, 2 puncture needles,

for MINOP® TREND handle FH615 and FH610R/FH611R,

Package of 10 tubes





TAU4TN-TAU00N

Working length: 130 mm, 5 1/8" Total length: 280 mm, 11"

Straight design with ergonomic grasping part and semi-sharp tips NICOLA **NICOLA HARDY HARDY HARDY** HARDY FA033R FA035R FA030R FA031R FA032R FA034R Curette Curette Enucleator Enucleator Curette Curette 6.5 mm 6.5 mm left cutting right cutting 4.0 mm 4.0 mm 45° vertical 45° horizon-90° angled 90° angled angled tal angled long neck short neck long neck short neck 1/1 LANDOLT-LANDOLT-**HARDY** HARDY **HARDY REULEN** REULEN FA036R FA037R FA038R FA039R FA040R Curette Curette Curette Micro Hook Dissector 2.0 mm 4.0 mm 6.0 mm 6.0 mm 1.7 mm 45° angled 90° angled 90° angled blunt short neck long neck short neck

The TREND instruments, available in straight or bayonet form, are specifically designed to complement and complete pleasant and precise operating with MINOP® TREND.

1/1

FA030R-FA040R

Working length: 140 mm, 5 1/2" Total length: 265 mm, 10 1/2"



Recommended Set

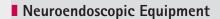
FH615R, FH610R, FH611R, PE487A, PE507A	MINOP® TREND Transnasal Endoscopy system incl. handle, trocar and scopes	FK906B - FK909B FK936R - FK939R	Kerrison NOIR®, detachable with thin footplate, upwards Kerrison, detachable with thin
FA041R - FA047R FA060R - FA068R	TREND pituitary curettes, dissectors, hooks, enucleators TREND pituitary curettes,	FM682R, FM702, FM722R	footplate, downwards XS tube shaft instruments, scissors and forceps
FF590B	dissectors, hooks, enucleators NOIR® transsphenoidal speculum	FF168R	Flexible holding arm with mechanic fixation
OK090R FA076R	Self-retaining nasal speculum Antrum bone punch	GD670, GD676, GD672, GD671 GB758R, GB771R	Microspeed UNI, highspeed drill system, incl. motor & foot pedal Hi-Line XS handpiece, angled
FA069R – FA075R	Pituitary scissors and forceps		and extra-long for narrow and deep-seated drill work
FF345R	Landolt tumor grasping forceps	GE613R – GE617R PV440, PV944	Hi-Line XS diamond burrs Full HD camera and wide-screen
FM156R – FM158R GK801R	Sensation micro forceps straight		monitor
	Bipolar coagulation forceps with slender jaws & active tip opening	OP930 PV920	Xenon light source Digital documentation system EDDY-DVD
GF432R	Suction cannula Fukushima design with curved instrument tip		J













... for cranial and spinal neuroendoscopy.

■ Visual Equipment

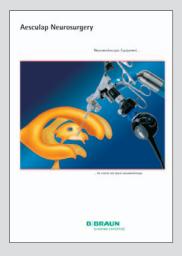


... imaging and accessories for minimal invasive surgery.

Aesculap Power Systems Catalogue



... dedicated power systems for minimallyinvasive neurosurgery.



For more information see **Brochure C35502**



For more information see Brochure C46702



For more information see Brochure 022711

Aesculap Academy

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Global Medical Professional Education Institution of the Year Award





Horizons of Knowledge. Competence to master the future.

Innovative developments in the field of medical technology, sophisticated new treatment methods, increasingly more stringent requirements for hospital and quality management and, last but not least, a healthy interest in acquiring new knowledge have given raise to an enormous and ever-increasing demand for further and advanced training.

The Aesculap Academy enjoys a world-wide reputation as a leading forum for medical training and answers the demands of physicians and medical staff in OR, anaesthesia, ward, outpatient care and hospital management. The course program comprises a wide range of hands-on workshops, management seminars and international symposia.

Aesculap Academy courses are of premium quality and are accredited by the respective medical societies and international medical organizations. A scientific advisory board guarantees the perfect selection of speakers and topics.

All of our courses are conducted by pioneering neurosurgeons who will address the theoretical knowledge of neuroendoscopy, cranial endoscopic anatomy, and clinical applications of neuroendoscopy. Each course includes extensive hands-on sessions or even live surgeries. Course attendees will benefit from discussions and analysis of real cases together with expert colleagues from all over the world. The training facilities of the Aesculap Academy in Berlin or Tuttlingen are traditional and spectacular locations for "sharing expertise".

Competence to master the future – keep yourself fit for the future and ask for the latest course programme offerings, e.g.

- Basic Intracranial Neuroendoscopy
- Advanced Intracranial Neuroendoscopy
- Applied Intracranial Neuroendoscopy

Visit our website and register for one of the next neuroendoscopy courses - www.aesculap-neuro.com or www.aesculap-academy.com or contact your local B. Braun Aesculap representative.



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