



Anterior Skull Base Surgery

THE COMPLETE SOLUTION



INNOVATIVE PRODUCTS THAT ENABLE MAXIMUM VISUALIZATION

MAXIMUM VISUALIZATION FOR ANTERIOR SKULL BASE SURGERY



Transnasal endoscopic approaches into the anterior skull base challenge even the most experienced rhinologist. **Maximum visualization and access are key.**

Medtronic ENT offers a comprehensive line of innovative products to help you address the unique challenges of complex anterior skull base procedures.



THE COMPLETE SOLUTION FOR ANTERIOR SKULL BASE SURGERY



Fusion™ ENT Navigation System

Image-guided surgical navigation can help enable a safer and more thorough procedure. Fusion™ ENT Navigation is an innovative electromagnetic (EM) system that is accurate, easy to use, and expandable as needed.

- Reproducible accuracy comparable to our optical navigation systems
- Automated verification, reusable instruments, multi-instrument tracking, and surgeon-specific settings
- Various procedure modules enable customization for your practice
- Cranial dynamic reference frame (DRF) enables bone fixation

9733560XOM	Fusion™ ENT Navigation System Includes Instrument Set - 9733452
9731132XOM	Cranial DRF



Cranial DRF

M4 Blades with Automated EM Tracking

FOR FUSION™ NAVIGATION AND THE STRAIGHTSHOT® M4 MICRODEBRIDER

The innovative M4 Blades with Automated EM Tracking are the first and only blades that are factory-calibrated for navigation, right out of the box. Attach the blade to the Straightshot M4 Microdebrider and the Fusion™ system, and start navigating.

- No array, no clamps, no calibration, no waiting
- Factory-calibrated for EM navigation
- True "plug and play" is convenient and efficient
- Seamless integration with Fusion™ system and Straightshot® M4



1884012EM	4 mm RAD® 12 Curved Rotatable Tracking Blade
1884006EM	4 mm RAD 40 Curved Rotatable Tracking Blade
1884080EM	4 mm Tricut® 13 cm Straight Rotatable Tracking Blade
1895522	Irrigation Tubing Set

Anterior Skull Base Burs and Blades

FOR THE STRAIGHTSHOT® M4 MICRODEBRIDER

For lesions within the anterior skull base, visibility can be difficult during extensive drilling in the sphenoid, clivus, and skull base.

The innovative Anterior Skull Base Burs and Blades for the Straightshot® M4 Microdebrider enable rapid bone and tumor removal with integrated suction-irrigation to help keep the surgical field clear.

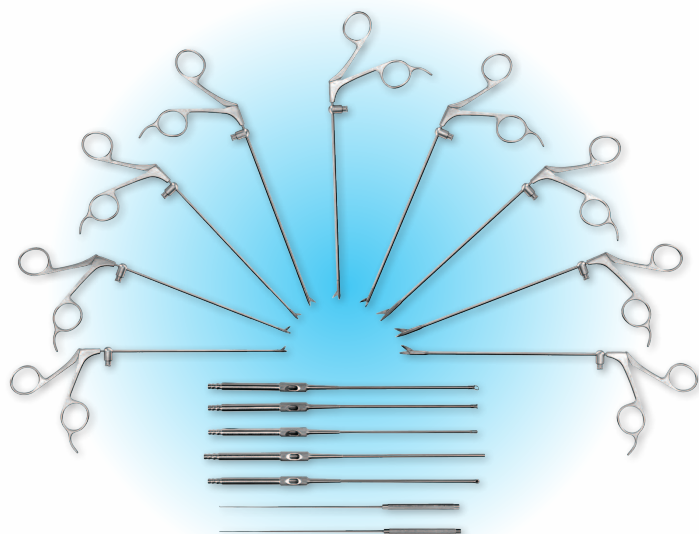
1884075HSE	Cutting Bur, 15 cm x 4 mm, 15°
1883274HSE	Diamond Bur, 15 cm x 3.2 mm, 15°
1885076HSE	Diamond Bur, 15 cm x 5 mm, 15°
1883277HSE	Diamond Bur, 15 cm x 3.2 mm, 40°
1885078HSE	Diamond Bur, 13 cm x 5 mm, 70°
1882979HRE	Skimmer® M4 Blade, 13 cm x 2.9 mm, 15°



MICROFRANCE®

Wormald Anterior Skull Base and Pituitary Instruments

Developed in conjunction with PJ Wormald, MD, FRACS, FRCS



These instruments were designed for both otolaryngologists and neurosurgeons in the combined approach to endoscopic anterior skull base and pituitary procedures.

Elongated malleable instruments with suction may be used for tissue elevation and tumor removal. Additionally, reverse-action scissors are available in various sizes and orientations for soft tissue and thin bone resection.

- Flush port facilitates debris removal
- Thumb-activated handles reduce excessive distal tip movement
- Each instrument has a working length of approximately 17-18 cm

MCEN148	Wormald Anterior Skull Base and Pituitary Instrument Set*
MCEN190	Clamp, Rotatable, Straight
MCEN191	Clamp, Curved, Small
MCEN192	Clamp, Curved, Large
MCEN193	Clamp, 45°, Straight Tip
MCEN194	Clamp, 45°, Curved Tip, Small
MCEN195	Clamp, 45°, Curved Tip, Large
MCEN212	Clip-Applying Forceps, Rotatable, Straight
MCEN213	Clip-Applying Forceps, Rotatable, 45°
MCEN214	Skull Base Forceps, Straight
MCEN215	Skull Base Forceps, 45°
MCEN218	Needle Holder, Rotatable

**See the Wormald ASB Set brochure (Lit# 890608) for a list of individual instruments included in set.*

MICROFRANCE®

Wormald Bipolar Forceps with Suction

Developed in conjunction with PJ Wormald, MD, FRACS, FRCS

The MicroFrance® Wormald Bipolar Forceps with Suction help achieve hemostasis during endoscopic sinus and anterior skull base surgery. With a slim profile, fine tips, and integrated suction, the forceps' unique design facilitates optimum visualization and access during these procedures.

- Forceps are able to reach the pituitary
- Integrated suction may be advanced independently of cautery tips to provide clear visibility of operative site, and then retracted during cauterization
- Contoured suction cannula reduces overall diameter without compromising suction capability
- Integrated flush port for cleaning and debris removal

MCEN641K	Wormald Bipolar Forceps with Suction Set, Straight, 170 mm
MCEN643K	Wormald Bipolar Forceps with Suction Set, Up-curved, 170 mm

The MicroFrance® brand is a premier line of ENT instruments, designed with world-renowned ENT surgeons to facilitate new techniques and improve patient outcomes.



Endo-Scrub® 2 Lens Cleaning Sheaths

FOR THE INTEGRATED POWER CONSOLE (IPC® SYSTEM)

For maximum visualization at the surgical site, the Endo-Scrub® 2 Lens Cleaning Sheaths deliver a high-power burst of irrigation to flush out debris. Endo-Scrub 2 software is fully integrated and optimized for the IPC system to deliver the clearest view possible.

- New sheath design secures scope in sheath to prevent seepage
- Automatically adjusts forward and reverse flow to clean the lens when you tap the footswitch
- Six cycle settings allow you to customize performance
- Auto-prime prohibits drips or air bubbles from forming over the lens
- Easier set-up and switching between scopes with pump head design
- Covers a broad range of scopes by multiple manufacturers

19-91005	Endo-Scrub® 2 Pump Only
19-91005TD	Endo-Scrub 1 to Endo-Scrub 2 Pump Upgrade
18-52000	Endo-Scrub 2 Footswitch
19-91015	Endo-Scrub 2 Fingerswitch

See the Endo-Scrub 2 brochure (Lit# 891167) for sheath ordering information



For further information, please call Medtronic ENT at 800.874.5797 or 904.296.9600. You may also consult www.MedtronicENT.com and www.MicroFrance.com.

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Greece 30-210-67-79-099

Hong Kong 852-2919-1312

Hungary 36-30-5052987

India 91-22-26836733

Israel 972-9-972-4400

Italy 39-02-24137-324

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