With your help, we have designed innovative blades and burs that improve patient outcomes\textsuperscript{1,2,3} and operative efficiency.\textsuperscript{4,5}

**Our 125+ selection includes:**

- 30K Burs
- Trackable EM Blades
- Straight and Curved Blades
- Straight and Curved Burs
- Airway Blades
- T&A Blades
Automated EM Tracking Blades
Factory-Calibrated Blades for Navigation

The innovative Automated EM Tracking Blades deliver unparalleled convenience and technology integration. They are factory-calibrated for navigation, right out of the box. Just attach the blade to the M5 microdebrider and the StealthStation™ ENT system, and start navigating.

With this latest innovation, we continue to deliver the feature expansion and product integration that you expect from Medtronic.

Unique features include:
- No array, no clamps, no calibration, no waiting
- Factory-calibrated blades for navigation

NOTA BENE
The technique description herein and the use of instructions for the related procedures are made available by Medtronic ENT to the healthcare professional to illustrate the author’s suggested treatment for the uncomplicated patient. In the final analysis, the preferred treatment is that which, in the healthcare professional’s judgment, addresses the needs of the individual patient.

Speeds are suggested rpm (revolutions per minute), operated in oscillation mode for blades and (forward) mode for burs. Measurements are listed in millimeters unless otherwise specified.
Automated EM Tracking Blades / Rotatable

Quadcut™ / Straight Blades

- 13.0 cm long with straight shaft
- Rotates through 360°
- 70% reduction in clogging over the Tricut™ Blade
- Outer teeth stabilize tissue while inner blade cuts

- Better engagement of ethmoid bone
- Improved precision
- Operating speed: up to 7,500 rpm, oscillate

Options:
- 3.0 mm
- 3.4 mm
- 4.3 mm

Ordering:
1883080EM | Quadcut blade / 3.0 mm diameter / 13.0 cm long / straight / rotatable / automated EM tracking / 1 each
1883480EM | Quadcut blade / 3.4 mm diameter / 13.0 cm long / straight / rotatable / automated EM tracking / 1 each
1884380EM | Quadcut blade / 4.3 mm diameter / 13.0 cm long / straight / rotatable / automated EM tracking / 1 each

Tricut™ / Straight Blade

- 13.0 cm long with straight shaft
- StraightShot™ M5 rotates blade 360°
- Offset cutting surface cuts in 3 planes

- Application: ethmoidectomy, sphenoid sinus surgery
- Operating speed: up to 7,500 rpm, oscillate

Option:
- 4.0 mm

Ordering:
1884080EM | Tricut blade / 4.0 mm diameter / 13.0 cm long / straight / rotatable / automated EM tracking / 1 each

RAD™ / 12° Curved Blade

- 11.0 cm long with curved shaft
- StraightShot M5 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes

- Application: uncinectomy, ethmoidectomy
- Operating speed: Up to 7,500 rpm, oscillate

Options:
- 4.0 mm

Ordering:
1884012EM | RAD blade / 4.0 mm diameter / 11.0 cm long / 12° curved / rotatable / automated EM tracking / 1 each

RAD / 40° Curved Blade

- 11.0 cm long with curved shaft
- StraightShot M5 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes

- Application: uncinectomy, ethmoidectomy
- Operating speed: up to 7,500 rpm, oscillate

Options:
- 4.0 mm

Ordering:
1884006EM | RAD blade / 4.0 mm diameter / 11.0 cm long / 40° curved / rotatable / automated EM tracking / 1 each

Irrigation Tubing

- For use with IPC™ blades and burs. Irrigation tubing not included in EM blade packaging.

Ordering:
1895522 | Irrigation tubing for blades and burs / 5 each
Quadcut Blades
Real Relief from Blade Clogging

Powered FESS is an important advancement in surgical treatment, yet some challenges remain. Medtronic engineers continually strive to enhance technology, improve patient outcomes\textsuperscript{3,2,3} and operative efficiency.\textsuperscript{4,5}

*The Innovative Quadcut™ Blades Offer:*
- Reduced blade clogging over the Tricut™ Blades\textsuperscript{4,5}
- Better engagement of ethmoid bone\textsuperscript{6}
- Improved precision and reduced collateral tissue damage\textsuperscript{6}

```
<table>
<thead>
<tr>
<th>Test Medium</th>
<th>Oyster and eggshell mixture</th>
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</thead>
<tbody>
<tr>
<td>MMR (Material Removal Rate)</td>
<td>(Tissue weight / minutes)</td>
</tr>
<tr>
<td>Cut Score</td>
<td>Material removed / clogs</td>
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</tbody>
</table>

Normal Run Conditions (3000 - 5000 rpm, 6 - 24 in Hg)

Data Collected from 4.3 mm Quadcut Blade\textsuperscript{7}
- 70% reduction in clogging over the Tricut™ Blade\textsuperscript{7}
- Approximately 17% additional tissue resection\textsuperscript{7}

Straight Sinus Blades / Rotatable

Quadcut / Straight Blades

- 13 cm long with straight shaft
- Rotates blade mouth 360°
- 70% reduction in clogging over the Tricut™ Blade\textsuperscript{7}
- Outer teeth stabilize tissue while inner blade cuts
- Better engagement of ethmoid bone\textsuperscript{6}
- Improved precision\textsuperscript{6}
- Operating speed: up to 7,500 rpm, oscillate

Ordering
1883080HRE  | Quadcut blade / 3.0 mm diameter / 13.0 cm long / straight / rotatable / 1 each with irrigation tubing
1883480HRE  | Quadcut blade / 3.4 mm diameter / 13.0 cm long / straight / rotatable / 1 each with irrigation tubing
1884380HR  | Quadcut blade / 4.0 mm diameter / 13.0 cm long / straight / rotatable / 5 each with irrigation tubing

Tricut™ / Straight Blades

- 11.0 - 13 cm long with straight shaft
- Rotates blade mouth 360°
- Offset cutting surface cuts in 3 planes
- Operating speed: up to 7,500 rpm, oscillate
- Applications: ethmoidectomy (1883504HR, 1884004HR, 1884080HR), sphenoid sinus surgery (1884080HR), sinus surgery (1882904HRE)

Ordering
1882904HRE  | Tricut blade / 2.9 mm diameter / 11.0 cm long / straight / rotatable / 1 each with irrigation tubing
1883504HR  | Tricut blade / 3.5 mm diameter / 11.0 cm long / straight / rotatable / 5 each with irrigation tubing
1884004HR  | Tricut blade / 4.0 mm diameter / 11.0 cm long / straight / rotatable / 5 each with irrigation tubing
1884080HR  | Tricut blade / 4.0 mm diameter / 13.0 cm long / straight / rotatable / 5 each with irrigation tubing

Powered FESS is an important advancement in surgical treatment, yet some challenges remain. Medtronic engineers continually strive to enhance technology, improve patient outcomes\textsuperscript{3,2,3} and operative efficiency.\textsuperscript{4,5}
Chronic inferior turbinate hypertrophy is a common cause of nasal obstruction that can have significant effects on quality of life. Minimally invasive surgical technologies have evolved to address this condition, including laser, radiofrequency (RF), and microdebrider methods.

**Compared to RF Methods, Our Inferior Turbine Blade**
- Offers significant and long-term results with one treatment
- Results in significantly reduced postoperative complications
- Helps achieve the goals of volumetric reduction
- Helps avoid unpredictable thermal damage to surrounding tissue

**VAS Scores: Assessing the Effectiveness of IT Reduction**
There are a variety of ways to evaluate surgical results, but the most direct method is to ask patients how they feel. The Visual Analog Scale (VAS) is a subjective measurement tool that evaluates the patient’s perception of his or her nasal health, including nasal obstruction, rhinorrhea, snoring, and sneezing. Answers usually range from 0 (no symptoms) to 10 (the most severe symptoms).

### Three-Month Study
- VAS scores dropped 84%, on average
- Straightshot M4, 2.9 mm IT Blade
- 60 pediatric patients

### Three-Year Study
- VAS scores dropped 82%, on average
- Straightshot M4, 2.9 mm IT Blade
- 80 patients

**Inferior Turbinoplasty / Power Microdebrider / Rotatable**

**Inferior Turbine Blades / Rotatable**

- 11.0 cm long
- Rotates through 360°
- Straight shaft with elevator tip
- Application: submucosal resection of inferior turbinate

**Ordering**
- 1882040HR | Inferior turbinate blade / 2.0 mm diameter / 11.0 cm long / rotatable / 5 each with irrigation tubing
- 1882940HR | Inferior turbinate blade / 2.9 mm diameter / 11.0 cm long / rotatable / 5 each with irrigation tubing
Curved Sinus Blades / Rotatable

**RAD™ / 12° Blades**

- 11.0 cm long with curved shaft
- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: up to 7,500 rpm, oscillate

Ordering

1883512HRE | RAD blade / 3.5 mm diameter / 11.0 cm long / 12° curved / rotatable / 1 each
1884012HR | RAD blade / 4.0 mm diameter / 11.0 cm long / 12° curved / rotatable / 5 each

**RAD / 40° Blades**

- 11.0 cm long with curved shaft
- StraightShot M5 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: up to 7,500 rpm, oscillate

Ordering

1883506HRE | RAD blade / 3.5 mm diameter / 11.0 cm long / 40° curved / rotatable / 1 each
1884006HR | RAD blade / 4.0 mm diameter / 11.0 cm long / 40° curved / rotatable / 5 each

**RAD / 60° Blades**

- 11.0 cm long with curved shaft
- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: up to 5,000 rpm, oscillate

Ordering

1883516HRE | RAD blade / 3.5 mm diameter / 11.0 cm long / 60° curved / rotatable / 1 each
1884016HR | RAD blade / 4.0 mm diameter / 11.0 cm long / 60° curved / rotatable / 5 each

**RAD / 90° Blade**

- 11.0 cm long with curved shaft
- StraightShot M5 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: maxillary polypectomy, frontal sinusotomy
- Operating speed: 2,000-3,000 rpm, oscillate

Ordering

1883519HR | RAD blade / 3.5 mm diameter / 11.0 cm long / 90° curved / rotatable / 3 each
Curved Sinus Blades / Non-Rotatable

**RAD / 60° Blade**
- 11.0 cm long with curved shaft
- Offset cutting surface cuts in 3 planes
- Same inner lumen as wider 3.5 mm blades
- Application: frontal sinus surgery
- Operating speed: 1,500 rpm, oscillate

Ordering
1882916 | RAD blade / 2.9 mm diameter / 11.0 cm long / 60° curved / 3 each

**RAD / 120° Blade**
- 11.0 cm long with curved shaft
- Tapered tip to allow maximum bend angle
- Application: maxillary polypectomy
- Operating speed: 1,500-3,000 rpm, oscillate
- 3 each, irrigation tubing separate

Ordering
1883517 | RAD blade / 3.5 mm diameter / 11.0 cm long / 120° curved / 3 each
Maximum Speed and Durability for ENT Surgery

30K Burs for the StraightShot™ M5 Microdebrider

Finding the right bur for the job has never been easier. With the largest selection of burs for frontal sinus surgery, you can choose a bur for the specific anatomic needs of each patient or procedure.

30K Burs have an entirely new design and multiple technology innovations, offering:

- Speeds up to 30,000 rpm
- Improved durability and stability
- Up to 10 times more effective at removing material
- Widest selection available for frontal sinus drilling
- Integrated irrigation
- Distal suction

*Compared to Medtronic XPS™ Burs

30K Burs

30K / Diamond Choanal Atresia Bur

- 13.0 cm long with curved shaft
- Diamond choanal atresia bur
- Operating speed: up to 30,000 rpm

Ordering
1884015RTD | 30K bur / 4.0 mm diameter / 13.0 cm long / diamond choanal atresia / 15° curved / 1 each

30K / Frontal Finesse Barrel Cutting Bur

- 13.0 mm long with curved shaft
- Frontal finesse barrel cutting bur
- Operating speed: up to 30,000 rpm

Ordering
1883040BRC | 30K bur / 3.0 mm diameter / 13.0 cm long / frontal finesse barrel cutting / 40° curved / 1 each

30K / Bullet Diamond Burs

- 13.0 cm long with curved shaft
- Bullet diamond bur
- Operating speed: up to 30,000 rpm

Ordering
1883040BLD | 30K bur / 3.0 mm diameter / 13.0 cm long / bullet diamond / 40° curved / 1 each
1883070BLD | 30K bur / 3.0 mm diameter / 13.0 cm long / bullet diamond / 70° curved / 1 each
30K / Bullet Cutting Burs
- 13.0 mm long with curved shaft
- Bullet cutting bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

Ordering
1883040BLC | 30K bur / 3.0 mm diameter / 13.0 cm long / bullet cutting / 40° curved / 1 each
1883070BLC | 30K bur / 3.0 mm diameter / 13.0 cm long / bullet cutting / 70° curved / 1 each

30K / Reverse Tapered Cutting Bur
- 13.0 mm long with curved shaft
- Reverse tapered cutting bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

Ordering
1884040RTC | 30K bur / 4.0 mm diameter / 13.0 cm long / reverse tapered cutting / 40° curved / 1 each
1884070RTC | 30K bur / 4.0 mm diameter / 13.0 cm long / reverse tapered cutting / 70° curved / 1 each

30K / Barrel Cutting Bur
- 13.0 mm long with curved shaft
- Barrel cutting bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

Ordering
1883655BRC | 30K bur / 3.6 mm diameter / 13.0 cm long / barrel cutting / 55° curved / 1 each

30K / Reverse Tapered Diamond Bur
- 13.0 mm long with curved shaft
- Reverse tapered diamond bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

Ordering
1884070RTD | 30K bur / 4.0 mm diameter / 13.0 cm long / reverse tapered diamond / 70° curved / 1 each

30K Burs Cutting Directions
- Bullet 3.0 mm
- Barrel 3.0 mm, 3.6 mm
- Reverse Taper 4.0 mm
- Choanal Atresia 4.0 mm
**Straight Sinus Burs**

**Oval / Straight Bur**
- 12.5 cm long with straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 rpm (forward)
- 3.2 mm

**Ordering**
1883264HS | Oval bur / 3.2 mm diameter / 12.5 cm long / straight / high-speed / 3 each

**Router / Straight Bur**
- 12.5 cm long with straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 rpm (forward)
- 4.5 mm

**Ordering**
1884562HS | Aggressive router bur / 4.5 mm diameter / 12.5 cm long / high-speed / 3 each

**Round / Straight Burs**
- 10.0- 12.5 cm long with straight shaft
- Cannulated suction bur tip
- Application: choanal atresia (1882960) / sinus surgery (1883262HS, 1884560HS)
- Operating speed in forward:
  - Up to 5,000 rpm (1882960)
  - Up to 12,000 rpm (1883262HS, 1884560HS)
- 2.9 mm
- 3.2 mm
- 4.5 mm

**Ordering**
1882960 | Pediatric round Bur / 2.9 mm diameter / 10.0 cm long / 5 each
1883262HS | Round bur / 3.2 mm diameter / 12.5 cm long / 3 each
1884560HS | Round bur / 4.5 mm diameter / 12.5 cm long / 3 each

**Curved Sinus Burs**

**Round Diamond / 15° Bur**
- 12.5 cm long with curved shaft
- Cannulated suction bur tip
- Application: trans-sphenoidal surgery
- Operating speed: up to 12,000 rpm (forward)
- Developed in conjunction with P. J. Wormald, MD, and Aldo Stamm, MD
- 5.0 mm
- 15°

**Ordering**
1885061HS | Round bur / 5.0 mm diameter / 12.5 cm long / 15° curved / high-speed / 3 each
Septoplasty / 12° Bur

- 11.0 cm long with curved shaft
- Cannulated suction bur tip
- Application: removal of bony and cartilaginous septal deviations
- Operating speed: up to 12,000 rpm (forward)
- Developed in conjunction with Donald Leopold, MD, and Eileen Raynor, MD

Ordering
1883212HS | Septoplasty bur / 3.2 mm diameter / 11.0 cm long / 12° curved / high-speed / 3 each

Tapered Diamond / 70° Bur

- 13.0 cm long with curved shaft
- Cannulated suction bur tip
- Application: frontal sinusotomy
- Operating speed: up to 12,000 rpm (forward)
- Developed in conjunction with David Kennedy, MD

Ordering
1883672HS | Tapered Diamond bur / 4.0 mm diameter / 13.0 cm long / 70° curved / high-speed / 3 each

DCR / 15° Bur

- 11.0 cm long with curved shaft
- Application: endoscopic drilling of lacrimal bone
- Operating speed: up to 12,000 rpm (forward)
- Developed in conjunction with Michael Mercandetti, MD

Ordering
1885061HS | DCR bur / 4.0 mm diameter / 11.0 cm long / 15° curved / high-speed / 3 each

DCR / 20° Diamond Bur

- 11.0 cm long with curved shaft
- Application: endoscopic drilling of lacrimal bone
- Operating speed: up to 12,000 rpm (forward)
- Developed in conjunction with Michael Mercandetti, MD

Ordering
1882569HS | DCR bur / 2.5 mm diameter / 11.0 cm long / 20° curved / high-speed / 3 each

Choanal Atresia / 15° Bur

- 13.0 cm long with curved shaft
- Application: removal of vomer
- Operating speed: up to 12,000 rpm (forward)
- Developed in conjunction with Gary Josephson, MD

Ordering
1883673HS | Choanal Atresia bur / 4.0 mm diameter / 13.0 cm long / 15° curved / high-speed / 3 each
Anterior Skull Base Burs

**ASB Diamond / 15° Burs**

- 15.0 cm long
- Application: Removal of bone in and around sphenoid, sella, clivus, and pterygoid plate
- Operating speed: up to 12,000 rpm (forward)
- Cannulated suction bur tip
- Fully integrated irrigation
- Developed in conjunction with PJ Wormald, MD, and Aldo Stamm, MD

**Ordering**

1883274HSE | Anterior skull base diamond bur / 3.2 mm diameter / 15.0 cm long / 15° curved / 1 each
1885076HSE | Anterior skull base diamond bur / 5.0 mm diameter / 15.0 cm long / 15° curved / 1 each

**ASB Cutting / 15° Bur**

- 15.0 cm long
- Application: Removal of bone in and around sphenoid, sella, clivus, and pterygoid plate
- Operating speed: up to 12,000 rpm (forward)
- Cannulated suction bur tip
- Fully integrated irrigation
- Developed in conjunction with PJ Wormald, MD, and Aldo Stamm, MD

**Ordering**

1884075HSE | Anterior skull base cutting bur / 4.0 mm diameter / 15.0 cm long / 15° curved / 1 each

**ASB Diamond / 40° Bur**

- 15.0 cm long
- Application: Removal of bone in and around sphenoid, sella, clivus, and pterygoid plate
- Operating speed: up to 12,000 rpm (forward)
- Cannulated suction bur tip
- Fully integrated irrigation
- Developed in conjunction with PJ Wormald, MD, and Aldo Stamm, MD

**Ordering**

1883277HSE | Anterior skull base diamond bur / 3.2 mm diameter / 15.0 cm long / 40° curved / 1 each

**ASB Diamond / 70° Bur**

- 13.0 cm long
- Application: Removal of frontal sinus septations and osteomas above the level of frontal recess
- Operating speed: up to 12,000 rpm (forward)
- Cannulated suction bur tip
- Fully integrated irrigation
- Developed in conjunction with PJ Wormald, MD, and Aldo Stamm, MD

**Ordering**

1885078HSE | Anterior skull base diamond bur / 5.0 mm diameter / 13.0 cm long / 70° curved / 1 each
Papilloma Surgical Technique

Using Angled Skimmer™ Blades for Papilloma Excision

Surgical Technique Presented by Matthew T. Brigger, MD, and Christopher J. Hartnick, MD

The microdebrider has emerged as a preferred modality of papilloma excision. The Skimmer™ Laryngeal Blade was specifically designed for delicate removal of papillomas near the vocal fold while minimizing damage to the epithelium (Figure 01).

Surgical Technique

The ability to successfully excise papillomas while avoiding collateral epithelial damage to the vocal fold serves as a model to the surgical management of papilloma. The recurrent nature of papilloma with resultant numerous surgeries often leads to progressive scarring and poor voice outcomes that may be prevented by the ability to avoid injury to normal tissues with the microdebrider.

Even for bulky disease associated with airway obstruction, the Skimmer blade rapidly removes papilloma in a controlled fashion (Figure 02). In the setting of acute distress, a single controlled pass can rapidly relieve airway obstruction and ensure that the child has a secure airway. Subsequently, a complete excision can be completed in the manner described above (Figure 03).

The development of longer Tricut™ blades, coupled with the ability to rotate the blade housing, allows access to the distal airway down to the mainstem bronchi for papilloma removal (Figure 04). A Tricut blade may be safe for use in the distal airway as the tracheal and bronchial mucosa is less susceptible to injury than the vocal fold epithelium. In patients with tracheostomies, a useful approach is to pass the blade through the stoma while directly visualizing the blade with a transoral endoscope.

Caution: Careful attention to the transition from papilloma to vocal fold epithelium is requisite. Particular concern is at the region of the anterior commissure where consideration of a staged resection is prudent. Bleeding is generally minimal and self-limited.
### Airway Blades/ Rotatable

#### Skimmer™ / 15° Blades
- 13.0 - 27.0 cm long double-curved blade
- Low-profile distal bend: 15°
- Operating speed: 60-500 rpm
- Applications: papilloma removal, laryngomalacia, tumor removal (1882979HRE) / pediatric (1882979HRE) / trans-sphenoidal hypophysectomy (1882925HRE, 1882923HRE, 1882924HRE)

#### Ordering
- 1882979HRE | Skimmer airway blade / 2.9 mm diameter / 13.0 cm long / rotatable / angle-tip / 1 each with irrigation tubing
- 1882925HRE | Skimmer airway blade / 2.9 mm diameter / 18.0 cm long / rotatable / angle-tip / 1 each with irrigation tubing
- 1882923HRE | Skimmer airway blade / 2.9 mm diameter / 22.0 cm long / rotatable / angle-tip / 1 each with irrigation tubing
- 1882924HRE | Skimmer airway blade / 2.9 mm diameter / 27.0 cm long / rotatable / angle-tip / 1 each with irrigation tubing

#### Tricut™ / 15° Laryngeal, Subglottic, Tracheal Blades
- 22.0 - 37.0 cm long double-curved blade
- Angled tip allows better visibility with endoscopy
- Operating speed: 500-1,200 rpm
- Developed in conjunction with William Lunn, MD, and Armin Ernst, MD
- Application: tumor debulking, granulation tissue removal, tracheal stenosis (1884031HRE), debulking tracheal papilloma and lesions (1884033HRE)

#### Ordering
- 1884030HRE | Tricut airway blade / 4.0 mm diameter / 13.0 cm long / rotatable / angle-tip / laryngeal / 1 each with irrigation tubing
- 1884031HRE | Tricut airway blade / 4.0 mm diameter / 22.0 cm long / rotatable / angle-tip / laryngeal / 1 each with irrigation tubing
- 1884033HRE | Tricut airway blade / 4.0 mm diameter / 37.0 cm long / rotatable / angle-tip / tracheal / 1 each with irrigation tubing

#### Tricut™ / 15° Bronchial Blade
- 45.0 cm long double-curved blade
- Rotating angled tip offers access to lateral, medial, and posterior bronchial lesions through a rigid bronchoscope
- Operating speed: 500-1,200 rpm
- Developed in conjunction with William Lunn, MD, and Armin Ernst, MD
- Application: debulking bronchial papilloma and lesions, tumor debulking, and granulation tissue removal

#### Ordering
- 1884035HRE | Tricut airway blade / 4.0 mm diameter / 45.0 cm long / rotatable / angle-tip / bronchial / 1 each with irrigation tubing
Airway Blades / Non-Rotatable

**Skimmer™ / 15° Blade**
- 18.0 cm long double-curved blade
- Operating speed: 60-500 rpm
- Low-profile distal bend: 15°
- Application: recurrent respiratory papilloma (RRP) removal and trans-sphenoidal hypophysectomy

**Ordering**
1883525  |  Skimmer airway blade / 3.5 mm diameter / 18.0 cm long / angle-tip / 3 each with irrigation tubing

**Skimmer / 15° Laryngeal, Subglottic Blades**
- 22.5 - 27.5 cm long double-curved blade
- Operating speed: 60-500 rpm
- Low-profile distal bend: 15°
- Application: recurrent respiratory papilloma removal and trans-sphenoidal hypophysectomy
- Developed in conjunction with Charles Myer, III, MD; Paul Wilging, MD; Brian Wiatrak, MD; Paul Flint, MD; David Parsons, MD; and John Little, MD

**Ordering**
1883523  |  Skimmer airway blade / 3.5 mm diameter / 22.5 cm long / angle-tip / laryngeal / 3 each with irrigation tubing
1884023  |  Skimmer airway blade / 4.0 mm diameter / 22.5 cm long / angle-tip / laryngeal / 3 each with irrigation tubing
1883524  |  Skimmer airway blade / 3.5 mm diameter / 27.5 cm long / angle-tip / subglottic / 3 each with irrigation tubing
1884024  |  Skimmer airway blade / 4.0 mm diameter / 27.5 cm long / angle-tip / subglottic / 3 each with irrigation tubing

**Tricut™ / Laryngeal Blade**
- 22.5 cm long
- Straight tip with curve at handpiece
- Application: debulking of RRP lesions
- Operating speed: 1,200 rpm
- Developed in conjunction with Paul Flint, MD, and John Little, MD

**Ordering**
1884020  |  Tricut airway blade / 4.0 mm diameter / 22.5 cm long / angle-tip / laryngeal / 3 each with irrigation tubing

37.0 cm long
45.0 cm long
Airway Blades / Non-Rotatable

**Serrated / Blade**
- 18.0/22.0 cm long double-curved blade
- Application: papilloma and hemangioma removal
- Operating speed: 500-1,500 rpm
- 2.9 mm diameter / 15°

**Ordering**
1882936E | Serrated airway blade / 2.9 mm diameter / 18.0 cm long / angle-tip / 1 each with irrigation tubing
1882937E | Serrated airway blade / 2.9 mm diameter / 22.0 cm long / angle-tip / 1 each with irrigation tubing

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**Tracheal / Blade**
- 37.0 cm long
- Straight tip to allow access through smaller diameter bronchoscope
- Operating speed: 1,200 rpm
- 4.0 mm diameter
- Application: debulking distal RRP and tracheal lesions
- Developed in conjunction with Paul Flint, MD, and John Little, MD

**Ordering**
1884032 | Tracheal airway blade / 4.0 mm diameter / 37.0 cm long / angle-tip / 1 each with irrigation tubing

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Airway Blades / Non-Rotatable

Serrated / Blade

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<tr>
<th>Characteristics</th>
<th>Details</th>
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<tr>
<td>Application</td>
<td>Papilloma and hemangioma removal</td>
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<tr>
<td>Operating Speed</td>
<td>500-1,500 rpm</td>
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<tr>
<td>Diameter</td>
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<tr>
<td>Angle</td>
<td>15°</td>
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</table>

**Ordering**
1882936E | Serrated airway blade / 2.9 mm diameter / 18.0 cm long / angle-tip / 1 each with irrigation tubing
1882937E | Serrated airway blade / 2.9 mm diameter / 22.0 cm long / angle-tip / 1 each with irrigation tubing

---

Tracheal / Blade

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<td>Tip</td>
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<tr>
<td>Operating Speed</td>
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<tr>
<td>Diameter</td>
<td>4.0 mm</td>
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<td>Application</td>
<td>Debunking distal RRP and tracheal lesions</td>
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<tr>
<td>Developers</td>
<td>Paul Flint, MD, and John Little, MD</td>
</tr>
</tbody>
</table>

**Ordering**
1884032 | Tracheal airway blade / 4.0 mm diameter / 37.0 cm long / angle-tip / 1 each with irrigation tubing
# Tonsillectomy and Adenoidectomy

**RADenoid™ / 40° Blade**
- 11.0 cm long with curved 40° blade
- Operating speed: 1,500 rpm
- Application: adenoidectomy
- Designed in conjunction with Max April, MD, and J. Lindhe Guarisco, MD

**Ordering**
- 1884008 | RADenoid blade / 4.0 mm diameter / 11.0 cm long / 40° curved / 5 each

**RADenoid / Adult 45° Blade**
- 13.0 cm long with curved 45° blade
- Allows better access into the choana
- Operating speed: 1,500 rpm
- Application: adenoidectomy
- Designed in conjunction with Max April, MD, and J. Lindhe Guarisco, MD

**Ordering**
- 1884507 | RADenoid blade / 4.5 mm diameter / 13.0 cm long / 45° curved / 5 each

**Tonsillectomy / 12° Blade**
- 11.0 cm long
- 12° blade
- Operating speed: 1,500 rpm
- Application: intracapsular tonsillectomy

**Ordering**
- 1884013 | Tonsillectomy blade / 4.0 mm diameter / 11.0 cm long / 12° curved / 5 each

**T&A Blade / Set**
- 13.0 cm
- Removable inner cutting tube
- Operating speed: 1,500 rpm
- 12° outer blade designed for powered intracapsular tonsillectomy
- 40° outer blade designed for powered adenoidectomy
- Developed in conjunction with Peter J. Koltai, MD

**Ordering**
- 1884008TA | Powered T&A Blade Set / 13.0 cm long / 12° and 40° curved / 5 each

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**The IPC™ Powered T&A Blade Set for the PITA™ Technique**

Clinical studies show that PITA™ surgery (Powered Intracapsular Tonsillectomy and Adenoidectomy) offers significant advantages to most patients, compared to conventional tonsillectomy or traditional electrodissection. With interchangeable 12° and 40° outer cutting tubes, you can remove adenoids and tonsils in the traditional order.

**Benefits of Powered Adenoidectomy**
- More complete tissue removal
- Lowered recurrence rate of otitis media compared to other techniques

**Benefits of Powered Intracapsular Tonsillectomy**
- Reduces postoperative bleeding and dehydration
- Less postoperative pain
- Quicker patient recovery compared to traditional Bovie techniques

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**T & A**

- Curved Blades
- Straight Blades
- Trackable EM Blades
- Burs
- Airway Blades
References


6. Internal blade validation study

7. Internal blade verification study


12. Internal 30k bur validation study.


Integrated Power Console (IPC™) System

- The innovative IPC™ system is an ENT powered surgery system with the widest range of application-specific handpieces and accessories.
- With fingertip control on the StraightShot™ M5, the blade tip rotates 360° independently of the shaft.

**StraightShot™ M5 Microdebrider**
- StraightShot™ M5 High-Speed Microdebrider (1899200)
- StraightShot M5 Instrument Tray (1899076)

**IPC™ System and Endo-Scrub™ 2**
- IPC Console (1898001)
- IPC Multi-Function Foot Pedal (1898430)
- Endo-Scrub™ 2 Footswitch (1852000)

Rx only. Refer to product instruction manual/package insert for instructions, warnings, precautions and contraindications.

For further information, please call Medtronic ENT at 800.874.5797 or consult Medtronic’s website at www.medtronic.com/ent.