Medtronic
Engineering the extraordinary

M4 and M5 StraightShot™ microdebriders

ENT blades and burs

With your help, we have designed innovative blades and burs that enable you to deliver the exceptional care your patients deserve.

Our 125+ selection includes:

- ApexCut™ blades
- Trackable EM Blades
- Straight and Curved Blades
- 30k burs
- Straight and Curved Burs
- Airway Blades
- T&A Blades



ApexCut™ Blades

Next generation powered sinus blade solution

Meet ApexCut™ blades. Developed alongside surgeons to address their key concern of clogging,[18] ApexCut™ blades offer a new mouth design and exclusive FlexMetric™* technology in curved blades that boosts efficiency§. These groundbreaking enhancements reduce clogging‡ – and procedural interruptions – so that you can focus on what matters most – your patients.

Up to **4x** less clogging‡ for uninterrupted performance.[17]

Redesigned to reduce clogging and enhance efficiency§ with:

- New tooth-to-tooth mouth design.
- New distal-to-proximal cutting pattern.
- Exclusive FlexMetric™* technology for larger suction pathways for curved blades.



Disclaimers:
‡Non-clinical testing measuring grams resected of simulated material prior to first clog, comparing ApexCut™ blades vs Medtronic Tricut™, RAD™, and Quadcut™ blades. Non-clinical testing is not indicative of clinical results.
§ Efficiency is defined by the reduction of clogging and minimized interruptions, made possible by the blade's cutting design and FlexMetric™ technology in curved blades that streamline tissue removal and suction flow.

ApexCut™ Blades - Rotatable

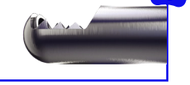


ApexCut™ Straight Blades

360°

- StraightShot™ M5 rotates blade 360°
- Operating speed: up to 7,500 rpm, oscillate

○ *2.9 mm* ○ *3.5 mm* ○ *4.0 mm*



Ordering

187BL2900 | ApexCut™ / 2.9mm diameter / 11.0cm long / straight / rotatable / 1 each
187BL3500 | ApexCut™ / 3.5mm diameter / 11.0cm long / straight / rotatable / 1 each
187BL4000 | ApexCut™ / 4.0mm diameter / 11.0cm long / straight / rotatable / 1 each
187BL4000L | ApexCut™ / 4.0mm diameter / 13.0cm long / straight / rotatable / 1 each
187BL3500PK | ApexCut™ / 3.5mm diameter / 11.0cm long / straight / rotatable / 5 each
187BL4000PK | ApexCut™ / 4.0mm diameter / 11.0cm long / straight / rotatable / 5 each
187BL4000LPK | ApexCut™ / 4.0mm diameter / 13.0cm long / straight / rotatable / 5 each



ApexCut™ 12 deg Curved Blades

360°

- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

○ *3.5 mm* ○ *4.0 mm*



Ordering

187BL3512 | ApexCut™ / 3.5mm diameter / 11.0cm long / 12deg curved / rotatable / 1 each
187BL4012 | ApexCut™ / 4.0mm diameter / 11.0cm long / 12deg curved / rotatable / 1 each
187BL4012PK | ApexCut™ / 4.0mm diameter / 11.0cm long / 12deg curved / rotatable / 5 each



ApexCut™ 40 deg Curved Blades

360°

- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

○ *3.5 mm* ○ *4.0 mm*



Ordering

187BL3540 | ApexCut™ / 3.5mm diameter / 11.0cm long / 40deg curved / rotatable / 1 each
187BL4040 | ApexCut™ / 4.0mm diameter / 11.0cm long / 40deg curved / rotatable / 1 each
187BL4040PK | ApexCut™ / 4.0mm diameter / 11.0cm long / 40deg curved / rotatable / 5 each



Irrigation Tubing

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

Ordering

1895522 | Irrigation tubing for blades and burs / 5 each

ApexCut™ 60 deg Curved Blades





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

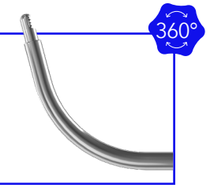
○ *2.9 mm* ○ *3.5 mm* ○ *4.0 mm*

Ordering

187BL2960 | ApexCut™ / 2.9mm diameter / 11.0cm long / 60deg curved / rotatable / 1 each
187BL3560 | ApexCut™ / 3.5mm diameter / 11.0cm long / 60deg curved / rotatable / 1 each
187BL4060 | ApexCut™ / 4.0mm diameter / 11.0cm long / 60deg curved / rotatable / 1 each
187BL4060PK | ApexCut™ / 4.0mm diameter / 11.0cm long / 60deg curved / rotatable / 5 each

ApexCut™ 75 deg Curved Blade





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

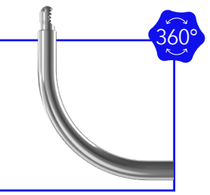
○ *2.9 mm*

Ordering

187BL2975 | ApexCut™ / 2.9mm diameter / 11.0cm long / 75deg curved / rotatable / 1 each

ApexCut™ 90 deg Curved Blade





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

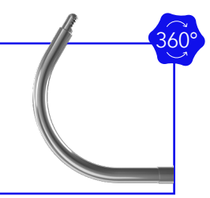
○ *3.5 mm*

Ordering

187BL3590 | ApexCut™ / 3.5mm diameter / 11.0cm long / 90deg curved / rotatable / 1 each

ApexCut™ 120 deg Curved Blade





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

○ *3.5 mm*

Ordering

187BL35120 | ApexCut™ / 3.5mm diameter / 11.0cm long / 120deg curved / rotatable / 1 each

Irrigation Tubing



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

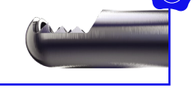
Ordering

1895522 | Irrigation tubing for blades and burs / 5 each

ApexCut™ EM navigated blades - Rotatable

ApexCut™ Straight Blades





- StraightShot™ M5 rotates blade 360°
- Operating speed: up to 7,500 rpm, oscillate

○ *4.0 mm*

Ordering

187BL4000LEM | ApexCut™ EM Navigated blades / 4.0mm diameter / 13.0cm long / straight / rotatable / 1 each

ApexCut™ 12° Curved Blades





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

○ *4.0 mm*

Ordering

187BL4012EM | ApexCut™ EM Navigated blades / 4.0mm diameter / 11.0cm long / 12deg curved / rotatable / 1 each

ApexCut™ 40° Curved Blades





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

○ *4.0 mm*

Ordering

187BL4040EM | ApexCut™ EM Navigated blades / 4.0mm diameter / 11.0cm long / 40deg curved / rotatable / 1 each

ApexCut™ 60° Curved Blades





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

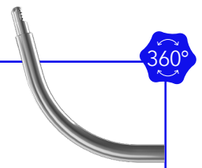
○ *4.0 mm*

Ordering

187BL4060EM | ApexCut™ EM Navigated blades / 4.0mm diameter / 11.0cm long / 60deg curved / rotatable / 1 each

ApexCut™ 75° Curved Blade





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

2.9 mm

Ordering

187BL2975EM | ApexCut™ EM Navigated blades / 2.9mm diameter / 11.0cm long / 75deg curved / rotatable / 1 each

ApexCut™ 90° Curved Blade





- StraightShot™ M5 rotates blade tip 360° without shaft rotation
- Powered by FlexMetric™* technology
- Operating speed: up to 7,500 rpm, oscillate

3.5 mm

Ordering

187BL3590EM | ApexCut™ EM Navigated blades / 3.5mm diameter / 11.0cm long / 90deg curved / rotatable / 1 each



Irrigation Tubing

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

Ordering

1895522 | Irrigation tubing for blades and burs / 5 each

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 Medtronic image-guided surgery systems, 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





Note:
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.
† Offers a reduced mouth opening size and different tooth configuration designed for smaller bites and better bone engagement

Automated EM tracking blades - Rotatable



Quadcut™ / Straight Blades

360°

- 13.0 cm long with straight shaft
- Rotates through 360°
- 70% reduction in clogging over the Tricut™ Blade[6]*
- Outer teeth stabilize tissue while inner blade cuts
- Better engagement of ethmoid bone[5]*†
- Operating speed: up to 7,500 rpm, oscillate

○ *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

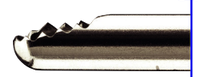


Tricut™ / Straight Blade

360°

- 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

○ *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

360°

- 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

○ *4.0 mm* *12°*



Ordering

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



RAD / 40° Curved Blade

360°

- 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

○ *4.0 mm* *40°*



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

* Based on non-clinical testing
† Offers a reduced mouth opening size and different tooth configuration designed for smaller bites and better bone engagement
‡ Based on non-clinical testing and may not be indicative of clinical performance

Quadcut blades

Real relief from blade clogging

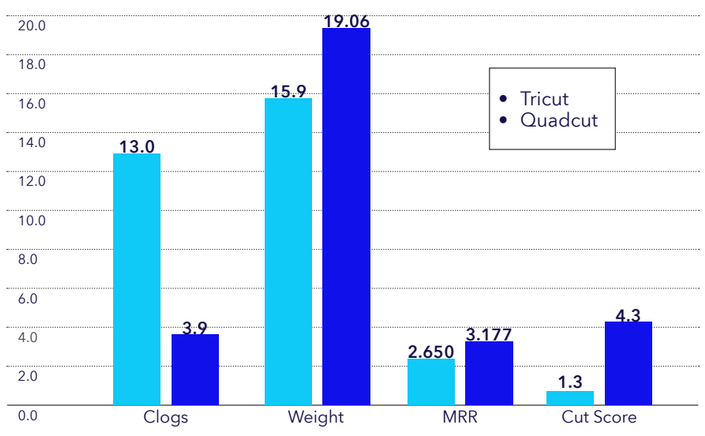
Powered FESS is an important advancement in surgical treatment, yet some challenges remain. Medtronic engineers continually strive to enhance technology, for improved operative efficiency.

The innovative Quadcut™ blades offer:

- Design for reduced blade clogging over the Tricut™ Blades[5,6*]
- Design for better engagement of ethmoid bone[5,6†]

Test Medium | Oyster and eggshell mixture
MRR (Material Removal Rate) | (Tissue weight / minutes)
Cut score | Weight of tissue removed/(number of clogs + 1)

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



Data collected from 4.3 mm Quadcut blade[6]

- On average, 70% reduction in clogging over the Tricut™ blade‡
- Approximately 20% of additional tissue resection based on average weight‡

* Based on non-clinical testing
† Offers a educed mouth opening size and diffe ent tooth configu ation designed for smaller bites and better bone engagement
‡ Based on non-clinical testing and may not be indicative of clinical performance

Straight sinus blades - Rotatable



Quadcut / Straight Blades

360°

- 13.0 cm long with straight shaft
- Rotates through 360°
- 70% reduction in clogging over the Tricut™ Blade[6*]
- Outer teeth stabilize tissue while inner blade cuts
- Better engagement of ethmoid bone[5*†]
- Operating speed: up to 7,500 rpm, oscillate

○ *3.0 mm* ○ *3.4 mm* ○ *4.3 mm*



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 /4.3 mm diameter / 13.0 cm long / straight / rotatable / 5 each with irrigation tubing

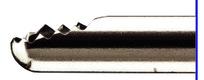


Tricut™ / Straight Blades

360°

- 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)

○ *2.9 mm* ○ *3.5 mm* ○ *4.0 mm*



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 inferior turbinoplasty

Long-term results with one treatment

Chronic inferior turbinate hypertrophy is a common cause of nasal obstruction that can have significant effects on quality of life.[7] Minimally invasive surgical technologies have evolved to address this condition, including laser, radiofrequency (RF), and microdebrider methods.

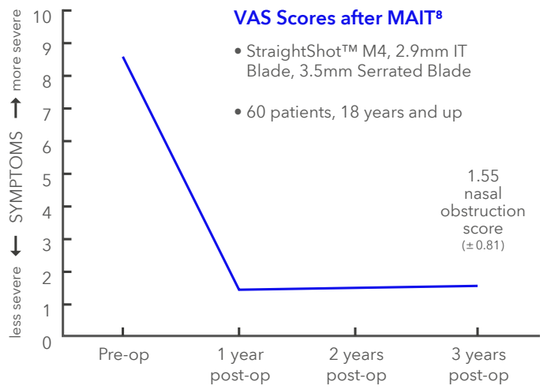
Compared to RF methods, our microdebrider and inferior turbinate blade:[8]

- Offers significant long-term results with one treatment
- Helps achieve the goals of long term volumetric reduction
- Can help avoid unpredictable thermal damage to surrounding tissue caused by the local submucosal delivery of low- frequency energy in RF procedures.

VAS Scores: Assessing the effectiveness of IT reduction

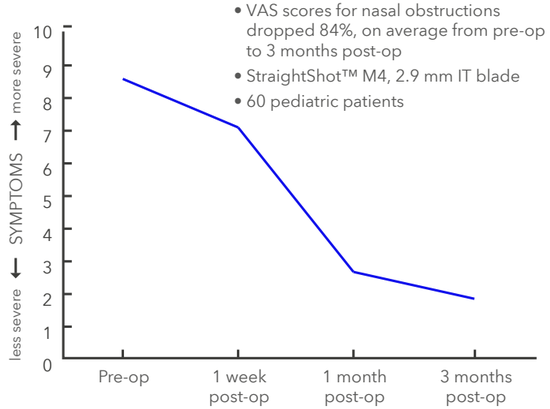
There are a variety of ways to evaluate surgical results, but the most direct method is to ask patients how they feel. The Visual Analog Scale (VAS) is a subjective measurement tool that can evaluate the patient's perception of his or her nasal health, including nasal obstruction, rhinorrhea, snoring,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

MAIT = microdebrider-assisted inferior turbinoplasty surgery



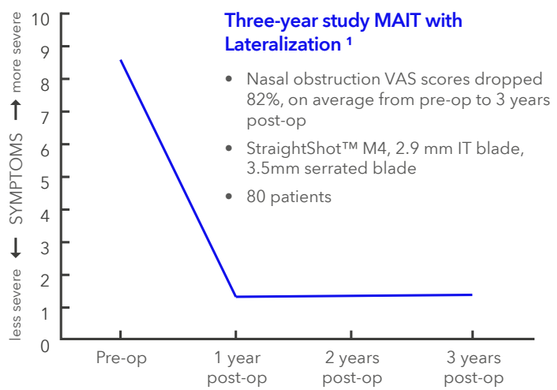
VAS Scores after MAIT[8]

- StraightShot™ M4, 2.9mm IT Blade, 3.5mm Serrated Blade
- 60 patients, 18 years and up



Three-month study, MAIT[9]

- VAS scores for nasal obstructions dropped 84%, on average from pre-op to 3 months post-op
- StraightShot™ M4, 2.9 mm IT blade
- 60 pediatric patients



Three-year study MAIT with Lateralization [1]

- Nasal obstruction VAS scores dropped 82%, on average from pre-op to 3 years post-op
- StraightShot™ M4, 2.9 mm IT blade, 3.5mm serrated blade
- 80 patients

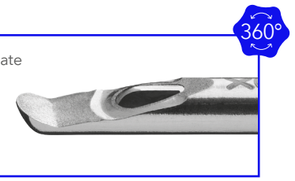
Inferior turbinate blades - Rotatable



Inferior Turbinate / Blades

- 11.0 cm long
- Rotates through 360°
- Straight shaft with elevator tip
- Application: submucosal resection of inferior turbinate
- Operating speed: 60-3,000 rpm, oscillate
- Developed in conjunction with Laurence O'Halloran, MD

○ *2.0 mm* ○ *2.9 mm*



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 cu ting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: up to 7,500 rpm, oscillate

3.5 mm *4.0 mm* *12°*

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 cu ting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: up to 7,500 rpm, oscillate

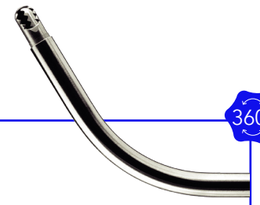
3.5 mm *4.0 mm* *40°*

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 cu ting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: up to 5,000 rpm, oscillate

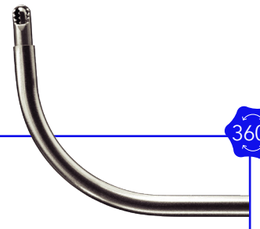
3.5 mm *4.0 mm* *60°*

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 cu ting surface cuts in 3 planes
- Application: maxillary polypectomy, frontal sinusotomy
- Operating speed: 2,000-3,000 rpm, oscillate

3.5 mm *90°*

Ordering

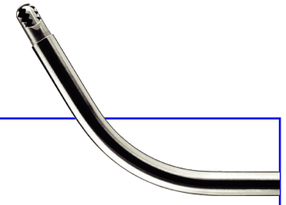
1883519HR | RAD blade / 3.5 mm diameter / 11.0 cm long / 90° curved / rotatable / 3 each

ApexCut™ Blades | ApexCut™ EM navigated blades | Trackable EM Blades | Straight Blades | Curved Blades | Burs | Airway Blades | T & A

Curved sinus blades - Non-rotatable



RAD / 60° Blade



- 11.0 cm long with curved shaft
- Offset cu ting surface cuts in 3 planes
- Same inner lumen as wider 3.5 mm blades
- Application: frontal sinus surgery
- Operating speed: 1,500 rpm, oscillate

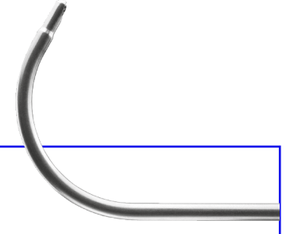
2.9 mm *60°*

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
- 3 each, irrigation tubing separate
- Operating speed: 1,500-3,000 rpm, oscillate

3.5 mm *120°*

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

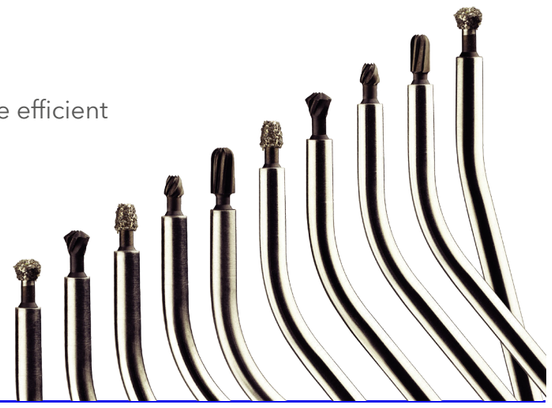
Finding the right bur for the job has never been easier. With the largest selection of burs for frontal sinus surgery, you can choose a bur for the specific anatomic needs of each patient or procedure.

Improved durability, speed, and stability compared to the XPS High Speed bur line with the inclusion of distal ceramic bearings.*

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

- Speeds up to 30,000 rpm
- Improved durability and stability[11]*
- Offering performance of up to over 4 times more efficient at removing material compared to XPS Burs[11]*
- Integrated irrigation
- Distal suction

* When compared to Medtronic XPS™ Burs. Based on non-clinical testing and may not be indicative of clinical performance.



30K burs cutting directions

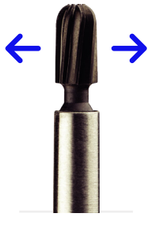
Bullet

- 3.0 mm



Barrel

- 3.0 mm
- 3.6 mm



Reverse taper

- 4.0 mm



Choanal atresia

- 4.0 mm



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
- Application: removal of vomer

4.0 mm | *)



Ordering

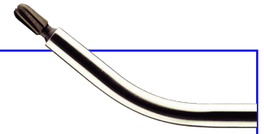
1884015RTD | 30K bur / 4.0 mm diameter / 13.0 cm long / diamond choanal atresia / 15° curved / 1 each



30K / Frontal Finesse Barrel Cutting Bur

- 13.0 cm long with curved shaft
- Frontal finesse bar el cutting bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

3.0 mm | 40°



Ordering

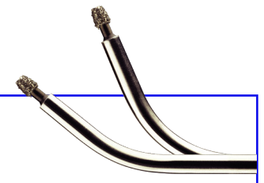
1883040BRC | 30K bur / 3.0 mm diameter / 13.0 cm long / frontal finesse barrel cutting / 40° curved / 1 each



30K / Bullet Diamond Burs

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

3.0 mm | 40° | 70°



Ordering

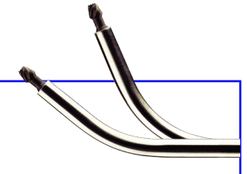
1883040BLD | 30K bur / 3.0 mm diameter / 13.0 cm long / bullet diamond / 40° curved / 1 each
1883070BLD | 30K bur / 3.0 mm diameter / 13.0 cm long / bullet diamond / 70° curved / 1 each



30K / Bullet Cutting Burs

- 13.0 cm long with curved shaft
- Bullet cutting bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

3.0 mm | 40° | 70°



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 burs



30K / Reverse Tapered Cutting Bur

- 13.0 cm long with curved shaft
- Reverse tapered cutting bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

4.0 mm | 40° | 70°



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 cm long with curved shaft
- Barrel cutting bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

3.6 mm | 55°



Ordering

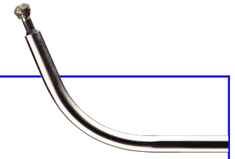
1883655BRC | 30K bur / 3.6 mm diameter / 13.0 cm long / barrel cutting / 55° curved / 1 each



30K / Reverse Tapered Diamond Bur

- 13.0 cm long with curved shaft
- Reverse tapered diamond bur
- Operating speed: up to 30,000 rpm
- Application: frontal sinus drilling

4.0 mm | 70°



Ordering

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

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

Straight sinus burs



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 (1883262HS and 1884560HS)
- Operating speed in forward:
  Up to 5,000 rpm (1882960)
  Up to 12,000 rpm (1883262HS, 1884560HS)
- Applications:
  choanal atresia (1882960)
  sinus surgery (1883262HS)
  sphenoid drilling (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 PJ 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



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

4.0 mm | 15°



Ordering

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

Curved sinus burs



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

4.0 mm | 70°



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

4.0 mm | 15°



Ordering

1884068HS | 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

2.5 mm | 20°



Ordering

1882569HS | DCR bur / 2.5 mm diameter / 11.0 cm long / 20° 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

3.2 mm | 12°



Ordering

1883212HS | Septoplasty bur / 3.2 mm diameter / 11.0 cm long / 12° 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 P.J Wormald, MD, and Aldo Stamm, MD

3.2 mm | 5.0 mm | 15°



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 P.J Wormald, MD,and Aldo Stamm, MD

4.0 mm | 15°



Ordering

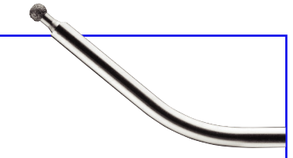
1884075HSE | Anterior skull base cutting bur / 4.0 mm diameter / 15.0 cm long / 15° curved / 1 each



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 P.J Wormald, MD, and Aldo Stamm, MD

3.2 mm | 40°



Ordering

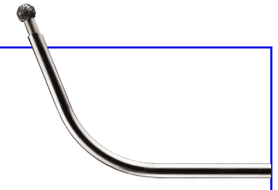
1883277HSE | Anterior skull base diamond bur / 3.2 mm diameter / 15.0 cm long / 40° curved / 1 each



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 P.J Wormald, MD, and Aldo Stamm, MD

5.0 mm | 70°



Ordering

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

ApexCut™ Blades | ApexCut™ EM navigated blades | Trackable EM Blades | Straight Blades | Curved Blades | Burs | Airway Blades | T & A

Airway blades - Rotatable



Skimmer™ / 15° Blades

360°

- 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

2.9 mm | 15°



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

360°

- 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)

4.0 mm | 15°



Ordering

1884030HRE | Tricut airway blade / 4.0 mm diameter / 22.0 cm long / rotatable / angle-tip / laryngeal / 1 each with irrigation tubing
1884031HRE | Tricut airway blade / 4.0 mm diameter / 27.0 cm long / rotatable / angle-tip / subglottic / 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

360°

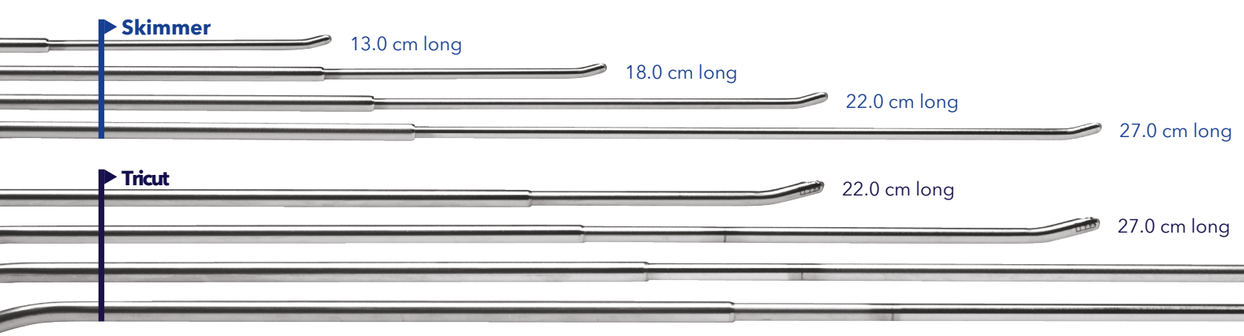
- 45.0 cm long double-curved blade
- Rotating angled tip offers access to l teral, medial, and posterior bronchial lesions through a rigid bronchoscope
- Operating speed: 500-1,200 rpm
- Developed in conjunction with William Lunn, MD, and Armin Ernst, MD
- Application: debulking bronchial papilloma and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

4.0 mm | 15°



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

3.5 mm | 15°



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
- Developed in conjunction with Charles Myer, III, MD; Paul Wilging, MD; Brian Wiatrak, MD; Paul Flint, MD; David Parsons, MD; and John Little, MD

3.5 mm | 4.0 mm | 15°



Ordering

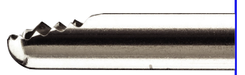
1883523 | Skimmer airway blade / 3.5 mm diameter / 22.5 cm long / angle-tip / laryngeal / 3 each with irrigation tubing
1884023 | Skimmer airway blade / 4.0 mm diameter / 22.5 cm long / angle-tip / laryngeal / 3 each with irrigation tubing
1883524 | Skimmer airway blade / 3.5 mm diameter / 27.5 cm long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

4.0 mm



Ordering

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

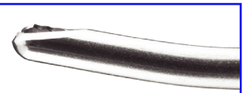
Airway blades - Non-rotatable



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 *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



Tracheal / Blade

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

4.0 mm



Ordering

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

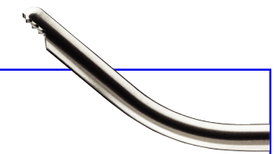
Tonsillectomy and adenoidectomy



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

4.0 mm *40°*



Ordering

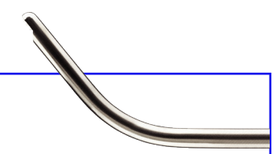
1884008 | RADenoid blade / 4.0 mm diameter / 11.0 cm long / 40° curved / 5 each



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

4.5 mm *45°*



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

4.0 mm *12°*



Ordering

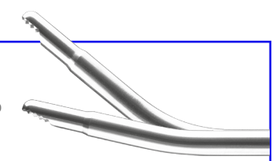
1884013 | Tonsillectomy blade / 4.0 mm diameter / 11.0 cm long / 12° curved / 5 each



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

12° *40°*



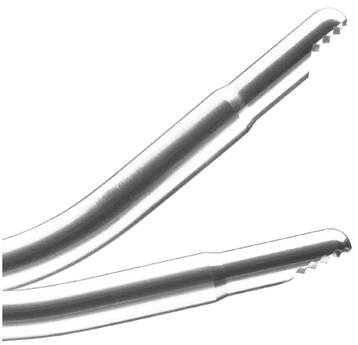
Ordering

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

The IPC™ powered T&A blade set

For the PITA technique

Data has shown that PITA surgery (Powered Intracapsular Tonsillectomy and Adenoidectomy) offers improved perioperative ouctomes compared to electrocautery techniques.[13] * With interchangeable 12° and 40° outer cutting tubes, you can remove adenoids and tonsils in the traditional order.



Interchangeable 12° and 40° outer cutting tubes

* Tonsillectomies were performed by either electrocautery or microdebriders, however, all adenoidectomies were performed with microdebriders when clinically indicated.

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 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)





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17. REF-32461: D01509297 ApexCut Blade Clog Resistance vs Predicate Sinus Blade Design Characterization Report.
18. Global Feature Prioritization Quantitative Survey. Data on file.

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