



**All India Institute of Medical Sciences, Bhubaneswar**  
**At - Sijua (Patrapada), Post - Dumuduma, Bhubaneswar (Odisha) - 751 019**

To be uploaded in Website: [www.aiimsbhubaneswar.nic.in](http://www.aiimsbhubaneswar.nic.in) (Tender)

**Reference No: J-11032(006)/2020-21/S&P**

**Dated: 09/04/2020**

**Sub:** Procurement of Accessories & Consumables for ENT Micro Debrider System (Make: Medtronic PLC, USA) for the Department of ENT at AIIMS, Bhubaneswar on Proprietary basis - **Inviting Comments thereon.**

The Department of ENT of AIIMS, Bhubaneswar has requested for Procurement of Accessories & Consumables for ENT Micro Debrider System (Make: Medtronic PLC, USA) through **M/s India Medtronic Pvt. Ltd., Mumbai** owned subsidiary of Medtronic PLC, USA.

The Notice is being uploaded for general information of prospective manufacturer/Authorized Distributor/Dealers to submit their objection/proposal/comments, if any, on proprietorship of the item.

In case the product of any manufacturer/Authorized distributor/Dealer conforms to the enclosed specifications, they may submit their proposal for the supply of the same along with the brochures, point by point compliance of the enclosed specifications along with all documentary evidence. One quotation of the product may also be submitted.

The objections/comments/proposal should be sent in sealed cover to the Office of Sr. Procurement Cum Stores Officer, AIIMS, Bhubaneswar (Odisha) – 751019 or through E-mail to [aso@aiimsbhubaneswar.edu.in](mailto:aso@aiimsbhubaneswar.edu.in), [aso.jkbiswal@aiimsbhubaneswar.edu.in](mailto:aso.jkbiswal@aiimsbhubaneswar.edu.in), [spo@aiimsbhubaneswar.edu.in](mailto:spo@aiimsbhubaneswar.edu.in), so as to reach on or before **date: 27-04-2020** failing which it will be presumed that no other firm is interested to offer comments/protest/object and case will be decided on its merits.

The ref. no. – **J-11032(006)/2020-21/S&P** dt:09-04-2020, due on dated:27-04-2020 should be superscripted on sealed envelope.

**Enclosure:**

1. Proprietary Article Certificate from Indenting Officer of Department of ENT, AIIMS, Bhubaneswar. **Annexure-I**
2. PAC of **M/s Medtronic PLC, USA** for the Accessories & Consumables for ENT Micro Debrider System (Make: Medtronic) **Annexure-II**
3. Certificate of Authorization & Price quotation for Accessories & Consumables for ENT Micro Debrider System (Make: Medtronic ) **Annexure-III**
4. Technical Boucher of the items (**Annexure-IV**)

**Copy to:**

- |                                         |   |                              |
|-----------------------------------------|---|------------------------------|
| 1. Indenting Officer, Department of ENT | : | for information please       |
| 2. Accounts Officer                     | : | for information please       |
| 3. IT Cell                              | : | for hoisting in the website. |

**Sd/-**

**Sr. Procurement-cum-Stores Officer**

## AIIMS, BHUBANESWAR

Proprietary Article Certificate  
Valid for the Current Financial Year

|                                                                                                                 |                                                                                                                                                                                                                                                             |                                                      |                                     |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|
| File No. and Date Reference :                                                                                   |                                                                                                                                                                                                                                                             |                                                      |                                     |
| 1                                                                                                               | Description of article                                                                                                                                                                                                                                      | consumables for the micro deborder system            |                                     |
| 2                                                                                                               | Forecast of quantity /annual requirement                                                                                                                                                                                                                    | yearly                                               |                                     |
| 3                                                                                                               | Approximate estimated value for above quantity                                                                                                                                                                                                              | Rs. 66,02,154/- (approx)                             |                                     |
| 4                                                                                                               | Maker's name and address                                                                                                                                                                                                                                    | Medtronic                                            |                                     |
| 5                                                                                                               | Name(s) of authorized dealers/ stockists                                                                                                                                                                                                                    | M/S India Medtronic Pvt Ltd<br>Helsa Medical Systems |                                     |
| 6                                                                                                               | I approve the above purchase on PAC basis and certify that :-<br>Note- Tick to retain only one out of (b), C-1) or (c-2) whichever is applicable and cross out others. Please do confirm (a) by ticking it - without which PAC certificate will be invalid. |                                                      |                                     |
| 6 (a)                                                                                                           | This is the only firm who is manufacturing / stocking this item.<br>AND                                                                                                                                                                                     | <input checked="" type="checkbox"/>                  |                                     |
| 6 (b)                                                                                                           | A Similar article is not manufactured / sold by any other firm, which could be used in lieu OR                                                                                                                                                              | <input type="checkbox"/>                             |                                     |
| 6 (c-1)                                                                                                         | No other make/brand will be suitable for following tangible reasons (like OEM/ Warranty, spares.) :<br>OR                                                                                                                                                   | <input type="checkbox"/>                             |                                     |
| 6 (c)                                                                                                           | No other make/brand will be suitable for following intangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since then to locate more sources) : OR<br>The main equipment is from the same company.      | <input checked="" type="checkbox"/>                  |                                     |
| 7                                                                                                               | Reference of concurrence of finance wing to the proposal :                                                                                                                                                                                                  |                                                      |                                     |
| History of PAC Purchase of this item for past three years may be given below :                                  |                                                                                                                                                                                                                                                             |                                                      |                                     |
| Name of the Supplier M/S India Medtronic Pvt Ltd, 3rd Floor, Shivam chambers<br>53 Syed Amir Ali Avenue, KOL-19 |                                                                                                                                                                                                                                                             |                                                      |                                     |
| Order/ Tender Reference & Date                                                                                  | Quantity Ordered                                                                                                                                                                                                                                            | Basic Rate on Order (Rs.)                            | Adverse Performance Reported if Any |
| 536/18-19/2.11.2018                                                                                             | 20 Nos                                                                                                                                                                                                                                                      | 82,160/-                                             |                                     |
|                                                                                                                 |                                                                                                                                                                                                                                                             |                                                      |                                     |
|                                                                                                                 |                                                                                                                                                                                                                                                             |                                                      |                                     |

Signature of the Indenting Officer

Dr. Pradip Kumar Parida  
Additional Professor  
Dept. of ENT AND HEAD & NECK SURGERY  
AIIMS, Bhubaneswar

Signature of Approving Authority.....

Date..... Designation of Officer.....





India Medtronic Pvt. Ltd.  
1241, Solitaire Corporate Park  
Andheri-Ghatkopar Link Road,  
Andheri (East)  
Mumbai – 400 093, India.  
Tele. : 91-22-33074701  
Fax : 91-22-33074704

12<sup>th</sup> March 2020.  
To  
The Director  
All India Institute of Medical Sciences,  
Patrapada, Sijua  
Bhubaneswar- 751019

**Sub :** PROPRIETARY ARTICLE CERTIFICATE FOR CONSUMABLES OF MICRO DEBRIDER SYSTEM.

Dear Sir,  
This is to certify that the consumables listed below for Medtronic Micro Debrider System, are the proprietary items of Medtronic Plc., 20 Lower Hatch Street, Dublin 2. They are being manufactured at Medtronic Xomed, 6743, Southpoint Drive North, Jacksonville, FL – 32216, U.S.A

| Sl. No. | Ref No.    | HSN Code | Product Details                          | Qty |
|---------|------------|----------|------------------------------------------|-----|
| 1       | 1884004HR  | 90189022 | BLADE 1884004HR TRICUT M4 4MM ROTATE     | 01  |
| 2       | 1883504HR  | 90189022 | BLADE 1883504HR TRICUT M4 3.5MM ROT      | 01  |
| 3       | 1882904HRE | 90189022 | BLADE 1882904HRE M4 TRICUT 2.9MM ROTAT   | 01  |
| 4       | 1882940HR  | 90189022 | BLADE 1882940HR M4 INF TURB 2.9MM        | 01  |
| 5       | 1884012HR  | 90189022 | BLADE 1884012HR RAD12 M4 4MM ROTATE      | 01  |
| 6       | 1884006HR  | 90189022 | BLADE 1884006HR RAD40 M4 4MM ROTATE      | 01  |
| 7       | 1884016HR  | 90189022 | BLADE 1884016HR RAD60 M4 4MM ROTATE      | 01  |
| 8       | 1883519HR  | 90189022 | BLADE 1883519HR RAD90 M4 3.5MM ROTAT     | 01  |
| 9       | 1883517    | 90189022 | BLADE 1883517 RAD120 MAX SINUS CVD       | 01  |
| 10      | 1884008    | 90189022 | BLADE 1884008 RADENOID 4MM               | 01  |
| 11      | 1884560HS  | 90181990 | BUR 1884560HS RND HI SPD 4.5MM           | 01  |
| 12      | 1883262HS  | 90181990 | BUR 1883262HS RND HI SPD 3.2MM           | 01  |
| 13      | 1885076HSE | 90181990 | BUR 1885076HSE 15CM X 5MM 15DEG DIAMOND  | 01  |
| 14      | 1883274HSE | 90181990 | BUR 1883274HSE 15CM X 3.2MM 15DG DIAMOND | 01  |
| 15      | 1883673HS  | 90181990 | BUR 1883673HS CHOANAL ATRESIA TAPER      | 01  |
| 16      | 1884068HS  | 90181990 | BUR 1884068HS DCR HI SPD                 | 01  |
| 17      | 1882569HS  | 90181990 | BUR 1882569HS CVD DIAMOND DCR 2.5MM      | 01  |
| 18      | 1883070HS  | 90181990 | BUR 1883070HS FRONTAL FINESSE HI SPD     | 01  |
| 19      | 1882924HRE | 90189022 | BLADE 1882924HRE SKIMMER 27CM 2.9MM M4   | 01  |
| 20      | 1882923HRE | 90189022 | BLADE 1882923HRE SKIMMER 22CM 2.9MM M4   | 01  |
| 21      | 1884030HRE | 90189022 | BLADE 1884030HRE TRICUT 4MM 22CM M4 IRR  | 01  |
| 22      | 1884031HRE | 90189022 | BLADE 1884031HRE TRICUT 4MM 27CM M4 IRR  | 01  |

All the above accessories & tools are compatible with Medtronic Micro Debrider System. All these items are propitiatory products of Medtronic Plc., USA and no other company's consumables are compatible (not recommended as per Medtronic policy) with Medtronic Micro Debrider System.

Yours faithfully,  
For and on behalf of India Medtronic Pvt. Ltd

Digitally signed by  
MAHESH BHATIA  
Date: 2020.03.18  
01:12:11 +05'30'

(Authorized Signatory)

*Alleviating Pain • Restoring Health • Extending Life*



India Medtronic Pvt. Ltd.  
1241, Solitaire Corporate Park  
Andheri-Ghatkopar Link Road,  
Andheri (East)  
Mumbai – 400 093, India.  
Tele. : 91-22-33074701  
Fax : 91-22-33074704

Date – 12.03.2020

To  
The Director  
All India Institute of Medical Sciences,  
Patrapada, Sijua  
Bhubaneswar- 751019

**Sub :** PRICE QUOTATION FOR CONSUMABLES OF ENT MICRO DEBRIDER SYSTEM, MANUFACTURED BY MEDTRONIC PLC. USA.

Dear Sir,

Thank you very much for your kind interest in our range of products. We are pleased to furnishing our best possible price quotation for consumables of Micro Debrider System as here under :

| Sl. No. | Ref No.    | HSN Code | Product Details                          | Qty | Price |
|---------|------------|----------|------------------------------------------|-----|-------|
| 1       | 1884004HR  | 90189022 | BLADE 1884004HR TRICUT M4 4MM ROTATE     | 01  | 6638  |
| 2       | 1883504HR  | 90189022 | BLADE 1883504HR TRICUT M4 3.5MM ROT      | 01  | 7084  |
| 3       | 1882904HRE | 90189022 | BLADE 1882904HRE M4 TRICUT 2.9MM ROTAT   | 01  | 9258  |
| 4       | 1882940HR  | 90189022 | BLADE 1882940HR M4 INF TURB 2.9MM        | 01  | 8582  |
| 5       | 1884012HR  | 90189022 | BLADE 1884012HR RAD12 M4 4MM ROTATE      | 01  | 11270 |
| 6       | 1884006HR  | 90189022 | BLADE 1884006HR RAD40 M4 4MM ROTATE      | 01  | 11758 |
| 7       | 1884016HR  | 90189022 | BLADE 1884016HR RAD60 M4 4MM ROTATE      | 01  | 12628 |
| 8       | 1883519HR  | 90189022 | BLADE 1883519HR RAD90 M4 3.5MM ROTAT     | 01  | 15388 |
| 9       | 1883517    | 90189022 | BLADE 1883517 RAD120 MAX SINUS CVD       | 01  | 9769  |
| 10      | 1884008    | 90189022 | BLADE 1884008 RADENOID 4MM               | 01  | 8232  |
| 11      | 1884560HS  | 90181990 | BUR 1884560HS RND HI SPD 4.5MM           | 01  | 16923 |
| 12      | 1883262HS  | 90181990 | BUR 1883262HS RND HI SPD 3.2MM           | 01  | 15320 |
| 13      | 1885076HSE | 90181990 | BUR 1885076HSE 15CM X 5MM 15DEG DIAMOND  | 01  | 24420 |
| 14      | 1883274HSE | 90181990 | BUR 1883274HSE 15CM X 3.2MM 15DG DIAMOND | 01  | 21042 |
| 15      | 1883673HS  | 90181990 | BUR 1883673HS CHOANAL ATRESIA TAPER      | 01  | 18064 |
| 16      | 1884068HS  | 90181990 | BUR 1884068HS DCR HI SPD                 | 01  | 17171 |
| 17      | 1882569HS  | 90181990 | BUR 1882569HS CVD DIAMOND DCR 2.5MM      | 01  | 18118 |
| 18      | 1883070HS  | 90181990 | BUR 1883070HS FRONTAL FINESSE HI SPD     | 01  | 15652 |
| 19      | 1882924HRE | 90189022 | BLADE 1882924HRE SKIMMER 27CM 2.9MM M4   | 01  | 21782 |
| 20      | 1882923HRE | 90189022 | BLADE 1882923HRE SKIMMER 22CM 2.9MM M4   | 01  | 22327 |
| 21      | 1884030HRE | 90189022 | BLADE 1884030HRE TRICUT 4MM 22CM M4 IRR  | 01  | 37793 |
| 22      | 1884031HRE | 90189022 | BLADE 1884031HRE TRICUT 4MM 27CM M4 IRR  | 01  | 45351 |

**G.S.T. @ 12% will be charged extra on the above quoted price**

**Prices will be valid till 31.03.2021 and further to that will subject to consideration.**

All the above accessories tools are compatible with Medtronic Micro Debrider System. All these items are propitiatory products of Medtronic Plc, USA and no other company's consumables are compatible (not recommended as per Medtronic policy) with Medtronic Micro Debrider System.

Yours faithfully,  
For and on behalf of India Medtronic Pvt. Ltd.

Digitally signed by  
MAHESH BHATIA  
Date: 2020.04.01  
17:21:47 +05'30'

(Authorized Signatory)

*Alleviating Pain • Restoring Health • Extending Life*

# Medtronic

## India Medtronic Pvt. Ltd.

CIN: U33110MH1993PTC204814

1241, Solitaire Corporate Park,  
Bldg. No. 12, 4th Floor,  
Andheri - Ghatkopar Link Road,  
Andheri (East), Mumbai - 400093, India.  
[www.medtronic.co.in](http://www.medtronic.co.in)

Tel +91-22 33074700/1/2/3

Fax +91-22 33074704

12<sup>th</sup> March 2020.

To  
The Director  
All India Institute of Medical Sciences,  
Patrapada, Sijua  
Bhubaneswar- 751019

**Sub :** Declaration against OEM Authorization & FALL CLAUSE.

Dear Sir,

This is to state and certify that, We, India Medtronic Private Limited situated at 1241, Solitaire Corporate Park, Building No. 12, 4<sup>th</sup> Floor, Andheri-Ghatkopar Link Road, Andheri (East) Mumbai – 400 093, India who is a fully owned Subsidiary of Medtronic Plc., 20 Lower Hatch Street, Dublin 2, Ireland who is an established and reputable manufacturers of ENT Surgical equipment & consumables.

We, further declare that the listed Disposables & Consumables has not been supplied at a rate lower than the rate quoted to AIIMS, Bhubaneswar.

We will be producing the supporting order copies from any other Govt. Hospital / INI / PSU / Private Hospitals for Price Justification at the time of Negotiation.

 Digitally signed by  
MAHESH BHATIA  
Date: 2020.03.18  
15:03:08 +05'30'

Yours faithfully,  
For and on behalf of India Medtronic Pvt. Ltd

**Mahesh Bhatia**  
Country Sales Manager, ISC, ENT  
[maresh.bhatia@medtronic.com](mailto:maresh.bhatia@medtronic.com)

# ENT BLADES AND BURS

FOR THE STRAIGHTSHOT™  
M4 MICRODEBRIDER  
AND THE MAGNUM II  
MICRODEBRIDER



TOGETHER,  
WE MAKE  
**SENSE.**



Medtronic



# ENT BLADES AND BURS

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# A GENERATION OF POWERED ENT TOOLS

IPC™ (Integrated Power Console)  
and Straightshot™ M4 Microdebrider

## THIS DYNAMIC COMBINATION PROVIDES:

- The widest range of application-specific blades and burs
- Blade tips that rotate 360°
- Factory-calibrated blades for surgical navigation
- Seamless integration with other Medtronic ENT devices
- Integrated Endo-Scrub™ 2 lens cleaning system

## WE OFFER A BROAD VARIETY OF STRAIGHTSHOT™ M4 BLADES AND BURS FOR SPECIFIC APPLICATIONS, INCLUDING:

- Polypectomy
- Turbinoplasty
- Septoplasty and rhinoplasty
- Ethmoidectomy and sphenoidotomy
- Uncinectomy and maxillary antrostomy
- Trephination of frontal and maxillary sinus
- Tonsils and adenoids
- Choanal atresia
- Larynx and airways
- Microscopy sinus surgery

Visit [www.MedtronicENT.com](http://www.MedtronicENT.com)  
for more information.





# Automated EM Tracking Blades

## M4-Rotatable

### QUADCUT™ BLADES



**4.3 mm Quadcut™ Straight Rotatable Blade with Automated EM Tracking**  
**1884380EM**

- 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: 5,000 rpm, oscillate



**3.4 mm Quadcut™ Straight Rotatable Blade with Automated EM Tracking**  
**1883480EM**

- 13.0 cm long with straight shaft
- Rotates through 360°
- Reduced clogging over the Tricut™ Blade
- Outer teeth stabilize tissue while inner blade cuts
- Improved precision
- Better engagement of ethmoid bone
- Operating speed: 5,000 rpm, oscillate



**3.0 mm Quadcut™ Straight Rotatable Blade with Automated EM Tracking**  
**1883080EM**

- 13.0 cm long with straight shaft
- Rotates through 360°
- Reduced clogging over the Tricut™ Blade
- Outer teeth stabilize tissue while inner blade cuts
- Better engagement of ethmoid bone
- Improved precision
- Operating speed: 5,000 rpm, oscillate

### TRICUT™ BLADE



**4.0 mm Tricut™ Straight Rotatable Blade with Automated EM Tracking**  
**1884080EM**

- 13.0 cm long with straight shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: ethmoidectomy, sphenoid sinus surgery
- Operating speed: 5,000 rpm, oscillate

### RAD™ BLADES



**4.0 mm RAD™ 12 Curved Rotatable Blade with Automated EM Tracking**  
**1884012EM**

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate



**4.0 mm RAD™ 40 Curved Rotatable Blade with Automated EM Tracking**  
**1884006EM**

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate

### IRRIGATION TUBING

#### Irrigation Tubing for Blades and Burs

##### 1895522

- For use with IPC™ blades and burs
- 5 each

Speeds are suggested rpm (revolutions per minute), operated in oscillation mode for blades and (forward) mode for burs.

Measurements are listed in



# AUTOMATED EM TRACKING BLADES

## First and Only Factory-Calibrated Blades for Navigation

The innovative Automated EM Tracking Blades deliver unparalleled convenience and technology integration. They're the first and only blades that are factory-calibrated for navigation, right out of the box. Attach the blade to the M4 microdebrider and the Fusion™ 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
- First and only factory-calibrated blades for navigation
- True "plug and play" is more convenient and efficient

Visit [www.MedtronicENT.com](http://www.MedtronicENT.com)  
for more information.

For Fusion™ ENT  
Navigation and  
the Straightshot™ M4  
Microdebrider





# Quadcut™ Blades

**M4-Rotatable** Available with built-in EM tracking (see page 2 for details)

## QUADCUT™ BLADES



360°



### 4.3 mm Quadcut™ Blade

**1884380HR**

- 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: 5,000 rpm, oscillate
- 5 each with irrigation tubing



### 3.4 mm Quadcut™ Blade

**1883480HRE**

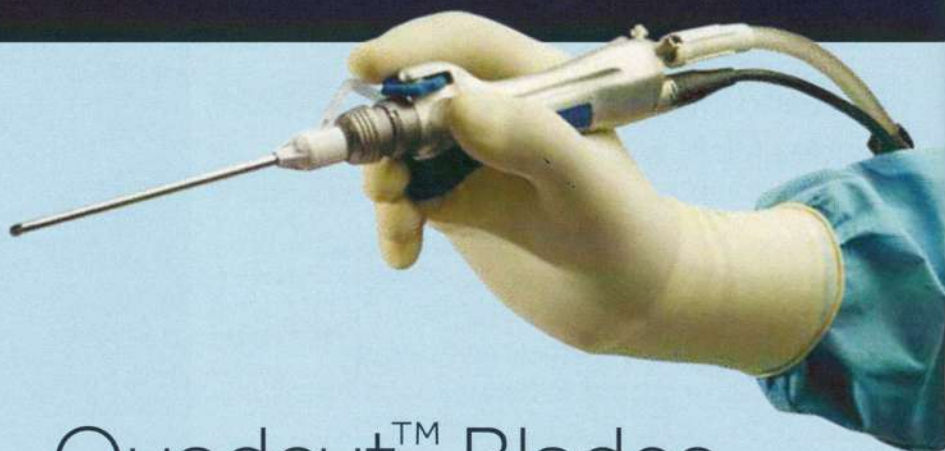
- 13.0 cm long with straight shaft
- Rotates through 360°
- Reduced clogging over the Tricut™ Blade
- Outer teeth stabilize tissue while inner blade cuts
- Improved precision
- Better engagement of ethmoid bone
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing



### 3.0 mm Quadcut™ Blade

**1883080HRE**

- 13.0 cm long with straight shaft
- Rotates through 360°
- Reduced clogging over the Tricut™ Blade
- Outer teeth stabilize tissue while inner blade cuts
- Better engagement of ethmoid bone
- Improved precision
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing



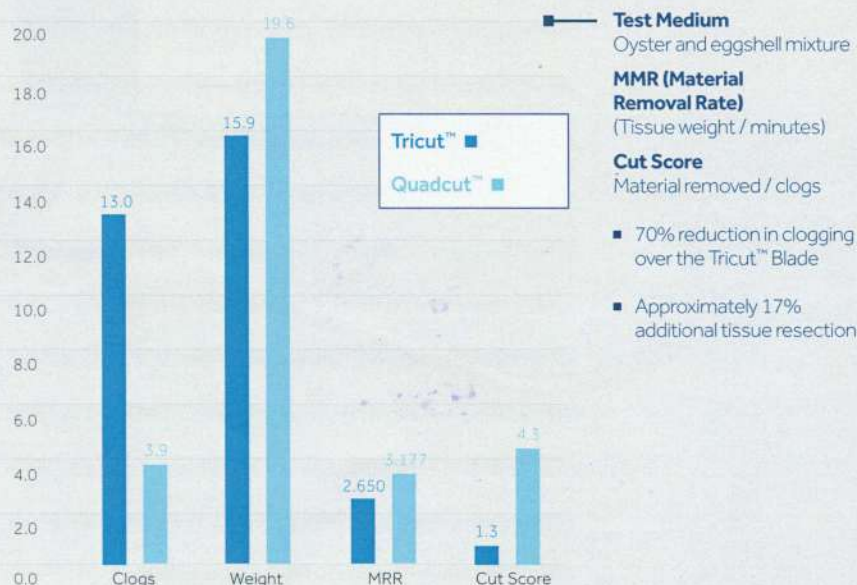
## Quadcut™ Blades

Powered FESS is an important advancement in surgical treatment, yet some challenges remain. Medtronic engineers continually strive to enhance technology, making surgery better for you and your patients.

### \*THE INNOVATIVE QUADCUT™ BLADES OFFER:

- Reduced blade clogging over the Tricut™ Blades<sup>1</sup>
- Better engagement of ethmoid bone<sup>3</sup>
- Improved precision and reduced collateral tissue damage<sup>3</sup>

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



Data collected from 4.3 mm Quadcut™ Blade<sup>2</sup>



# Straight Sinus Blades

## M4-Rotatable

### TRICUT™ BLADES



360°



#### 4.0 mm Tricut™ Blade

**1884004HR**

- 11.0 cm long with straight shaft
- Rotates through 360°
- Offset cutting surface cuts in 3 planes
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing

#### 4.0 mm Tricut™ Blade

**1884080HR**

- 13.0 cm long with straight shaft
- Rotates through 360°
- Offset cutting surface cuts in 3 planes
- Application: ethmoidectomy, sphenoid sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing



#### 3.5 mm Tricut™ Blade

**1883504HR**

- 11.0 cm long with straight shaft
- Rotates through 360°
- Offset cutting surface cuts in 3 planes
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing



#### 2.9 mm Tricut™ Blade

**1882904HRE**

- 11.0 cm long with straight shaft
- Rotates through 360°
- Offset cutting surface cuts in 3 planes
- Application: pediatric sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing

### SERRATED BLADES



360°



#### 4.0 mm Serrated Blade

**1884002HRE**

- 11.0 cm with straight shaft
- Rotates through 360°
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing



#### 3.5 mm Serrated Blade

**1883502HRE**

- 11.0 cm long with straight shaft
- Rotates through 360°
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing



#### 2.9 mm Serrated Blade

**1882902HRE**

- 11.0 cm long with straight shaft
- Rotates through 360°
- Application: pediatric sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing

### SILVER BULLET™



360°



#### 4.0 mm Silver Bullet™ Blade

**1884005HRE**

- 11.0 cm long with straight shaft
- Rotates through 360°
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing
- Developed in conjunction with Rodney Lusk, MD



#### 2.9 mm Silver Bullet™ Blade

**1882905HRE**

- 11.0 cm long with straight shaft
- Rotates through 360°
- Application: choanal atresia
- Operating speed: 5,000 rpm, oscillate
- 1 each with irrigation tubing
- Developed in conjunction with Rodney Lusk, MD

### TURBINATE



360°



#### 2.9 mm Inferior Turbinate Blade

**1882940HR**

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



#### 2.0 mm Inferior Turbinate Blade

**1882040HR**

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



# Straight Sinus Blades

## Non-Rotatable

### TRICUT™ BLADES



#### 4.0 mm Tricut™ Blade

**1884004**

- 11.0 cm long with straight shaft
- Offset cutting surface cuts in 3 planes
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing



#### 3.5 mm Tricut™ Blade

**1883504**

- 11.0 cm long with straight shaft
- Offset cutting surface cuts in 3 planes
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing



#### 2.9 mm Tricut™ Blade

**1882904**

- 11.0 cm long with straight shaft
- Offset cutting surface cuts in 3 planes
- Application: pediatric sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing

### SERRATED BLADES



#### 4.0 mm Serrated Blade

**1884002**

- 11.0 cm long with straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing



#### 3.5 mm Serrated Blade

**1883502**

- 11.0 cm long with straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing



#### 2.9 mm Serrated Blade

**1882902**

- 11.0 cm long with straight shaft
- Application: pediatric sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing

### SILVER BULLET™ BLADES



#### 4.0 mm Silver Bullet™ Blade

**1884005**

- 11.0 cm long with straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing
- Developed in conjunction with Rodney Lusk, MD



#### 2.9 mm Silver Bullet™ Blade

**1882905**

- 11.0 cm long with straight shaft
- Application: choanal atresia
- Operating speed: 5,000 rpm, oscillate
- 5 each with irrigation tubing
- Developed in conjunction with Rodney Lusk, MD

### INFERIOR TURBINATE



#### 2.9 mm Inferior Turbinate Blade

**1882940**

- 11.0 cm long
- Straight shaft with elevator
- Application: submucosal resection of inferior turbinate
- Operating speed: 60-3,000 rpm, oscillate
- 5 each with irrigation tubing
- Developed in conjunction with Laurence O'Halloran, MD



#### 2.0 mm Inferior Turbinate Blade

**1882040**

- 11.0 cm long
- Straight shaft with elevator
- Application: submucosal resection of inferior turbinate
- Operating speed: 60-3,000 rpm, oscillate
- 5 each with irrigation tubing
- Developed in conjunction with Laurence O'Halloran, MD

**THE ENDO-SCRUB™ 2 AND IPC™ DIFFERENCE. SIGNIFICANTLY IMPROVES THE ABILITY TO OPERATE IN THE PRESENCE OF BLEEDING<sup>4-9</sup>**



Fogging and accumulated debris can decrease visualization and necessitate removing the scope during a surgical procedure for cleaning.



Software-driven Endo-Scrub™ 2 Lens Cleaning Sheaths ensure that fluid is evacuated from the sheath to keep the lens from fogging.



# POWERED INFERIOR TURBINOPLASTY

## Long-Term Results with One Treatment

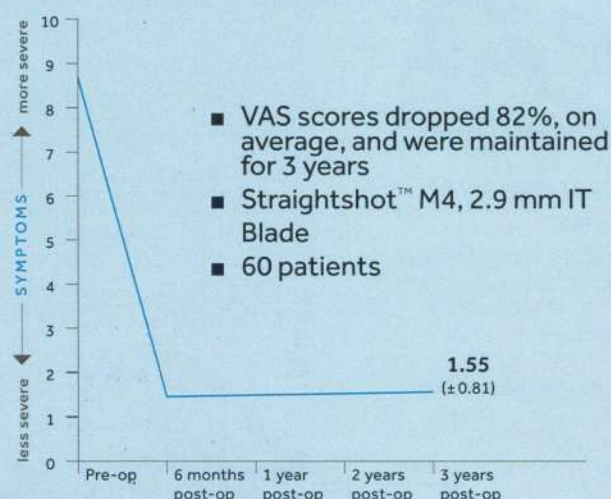
Chronic inferior turbinate hypertrophy is a common cause of nasal obstruction that can have significant effects on quality of life.<sup>10</sup> Minimally invasive surgical technologies have evolved to address this condition, including laser, radiofrequency (RF), and microdebrider methods.

### Compared to RF Methods, Our Inferior Turbinate Blade<sup>11-13</sup>

- 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

## STUDY RESULTS

### VAS Scores after Inferior Turbinoplasty with Microdebrider-Assisted Surgery<sup>11</sup>



### 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

## SURGICAL TECHNIQUE

The primary goal of turbinate surgery is volumetric reduction of submucosal vascular stromal tissue with preservation of overlying respiratory epithelium (Fig. 01). This mucosa is essential to proper turbinate function, such as warming and humidifying inspired air and mucociliary clearance.

Inferior turbinoplasty with the Straightshot™ M4 is a minimally invasive technique, typically requiring just one 2.0 mm or 2.9 mm incision into the anterior portion of the turbinate (Fig. 02).

The physician inserts the IT Blade beneath the mucosal layer. After creating a submucosal dissection plane with the blade's elevator tip, remove the intervening stromal tissue (Fig. 03-04).



The underlying turbinate bone is not removed and the overlying mucosa is also preserved. This technique reduces the size of the inferior turbinate with no damage to the functional mucosal tissue, such as blanching or crusting.

Once the turbinoplasty has been completed, the turbinate can be outfractured using standard techniques.

However, none of the patients in the three studies referenced on this page received an outfracture, and these patients experienced excellent long-term results.<sup>12-14</sup>

At the surgeon's discretion, Merocel™ packing may be used for the first 24 hours. Studies suggest its value in eliminating postoperative bleeding, including the Liu and Chen studies.<sup>11-13</sup>

**For the complete surgical technique, please contact your Medtronic ENT representative.**

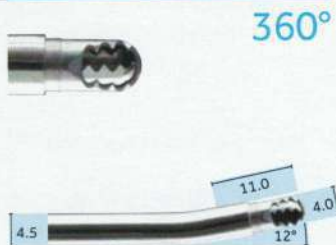
**Nota Bene:** The technique description herein and the use of instructions for the related procedures are made available by Medtronic ENT to the healthcare professional to illustrate the author's suggested treatment for the uncomplicated patient. In the final analysis, the preferred treatment is that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



# Curved Sinus Blades

## M4-Rotatable

### RAD™ 12 BLADES



#### 4.0 mm RAD™ 12 Blade

##### 1884012HR

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each, irrigation tubing separate



#### 3.5 mm RAD™ 12 Blade

##### 1883512HRE

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 1 each, irrigation tubing separate

### SKIMMER™ BLADE



#### 2.9 mm Skimmer™ Angle-Tip Blade

##### 1882979HRE

- 13.0 cm long double-curved blade
- Application: pituitary tumor resection
- Operating speed: 60-500 rpm
- Low-profile distal bend: 15°
- 1 each with irrigation tubing

### RAD™ 40 BLADES



#### 4.0 mm RAD™ 40 Blade

##### 1884006HR

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each, irrigation tubing separate

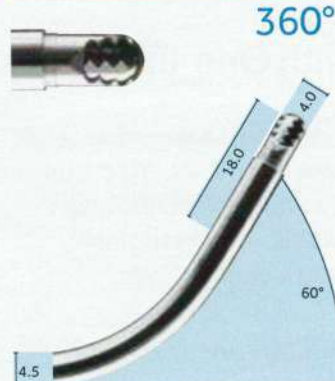


#### 3.5 mm RAD™ 40 Blade

##### 1883506HRE

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 1 each, irrigation tubing separate

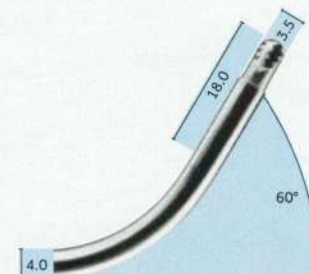
### RAD™ 60 BLADES



#### 4.0 mm RAD™ 60 Blade

##### 1884016HR

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: frontal sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 5 each, irrigation tubing separate

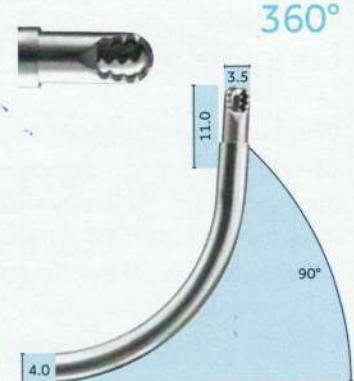


#### 3.5 mm RAD™ 60 Blade

##### 1883516HRE

- 11.0 cm long with curved shaft
- Straightshot™ M4 rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: frontal sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 1 each, irrigation tubing separate

### RAD™ 90 BLADE



#### 3.5 mm RAD™ 90 Blade

##### 1883519HR

- 11.0 cm long with curved shaft
- Straightshot™ M4 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
- 3 each, irrigation tubing separate

The Straightshot™ M4 Microdebrider and 360° rotating RAD™ 90 blade allow optimum access to maxillary polyps and the frontal recess.

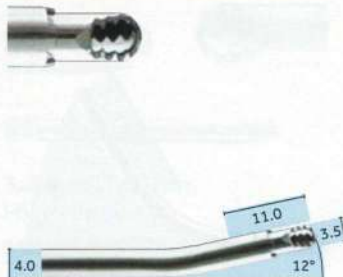




# Curved Sinus Blades

Key-Rotatable\*

## RAD™ 12 BLADE

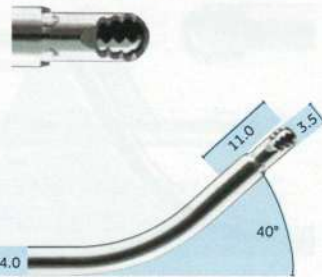


### 3.5 mm RAD™ 12 Blade

**1883514RT**

- 11.0 cm long with curved shaft
- Key rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 3,000 rpm, oscillate
- 3 each, irrigation tubing separate

## RAD™ 40 BLADE

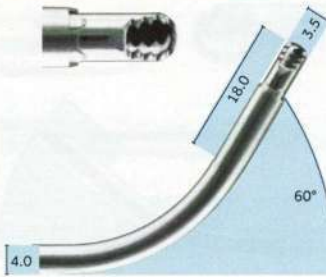


### 3.5 mm RAD™ 40 Blade

**1883507RT**

- 11.0 cm long with curved shaft
- Key rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 3 each, irrigation tubing separate

## RAD™ 60 BLADE



### 3.5 mm RAD™ 60 Blade

**1883516RT**

- 11.0 cm long with curved shaft
- Key rotates blade tip 360° without shaft rotation
- Offset cutting surface cuts in 3 planes
- Application: frontal sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 3 each, irrigation tubing separate

## IRRIGATION TUBING

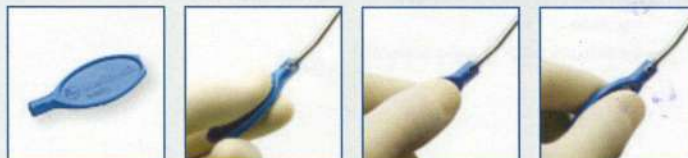
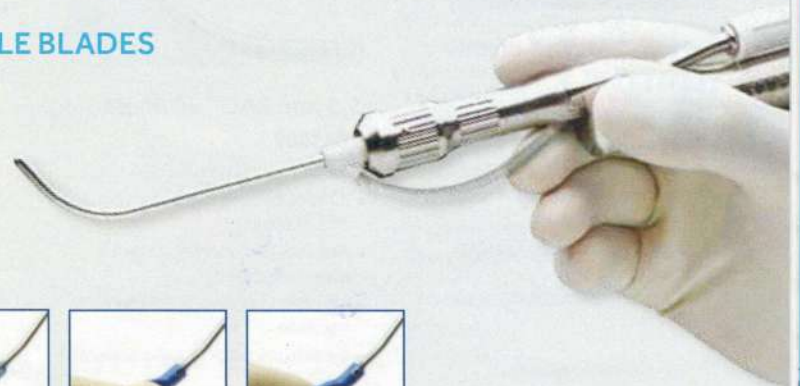
### Irrigation Tubing for Blades and Burs

**1895522**

- For use with IPC™ blades and burs
- 5 each

# The Straightshot™ Magnum II

WITH KEY-ROTATABLE BLADES



\*For use with Straightshot™  
Magnum II

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.



# Curved Sinus Blades

## Non-Rotatable

### RAD™ 12 BLADES



#### 4.0 mm RAD™ 12 Blade

**1884012**

- 11.0 cm long with curved shaft
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each, irrigation tubing separate

#### 4.0 mm RAD™ 12 Microscopy Blade

**1884012M**

- 13.0 cm long
- Multi-bend curved shaft for use with operating microscope
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 3,000 rpm, oscillate
- 5 each, irrigation tubing separate



#### 3.5 mm RAD™ 12 Blade

**1883514**

- 11.0 cm long with curved shaft
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each, irrigation tubing separate

### RAD™ 40 BLADES



#### 4.0 mm RAD™ 40 Blade

**1884006**

- 11.0 cm long with curved shaft
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 5 each, irrigation tubing separate

#### 4.0 mm RAD™ 40 Microscopy Blade

**1884006M**

- 14.0 cm long
- Multi-bend curved shaft for use with operating microscope
- Offset cutting surface cuts in 3 planes
- Application: frontal sinus surgery
- Operating speed: 3,000 rpm, oscillate
- 3 each, irrigation tubing separate

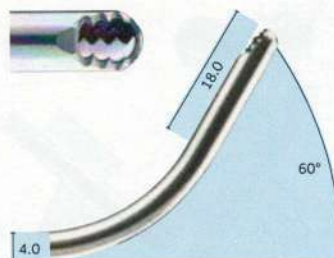


#### 3.5 mm RAD™ 40 Blade

**1883507**

- 11.0 cm long with curved shaft
- Offset cutting surface cuts in 3 planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 rpm, oscillate
- 3 each, irrigation tubing separate

### RAD™ 60 BLADES



#### 4.0 mm RAD™ 60 Blade

**1884016**

- 11.0 cm long with curved shaft
- Offset cutting surface cuts in 3 planes
- Application: frontal sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 5 each, irrigation tubing separate



#### 3.5 mm RAD™ 60 Blade

**1883516**

- 11.0 cm long with curved shaft
- Offset cutting surface cuts in 3 planes
- Application: frontal sinus surgery
- Operating speed: 5,000 rpm, oscillate
- 3 each, irrigation tubing separate
- Developed in conjunction with William Bolger, MD

### RAD™ 60 BLADE

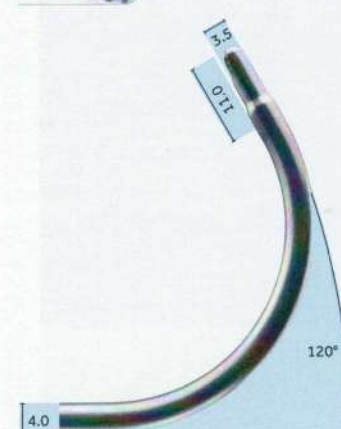


#### 2.9 mm RAD™ 60 Blade

**1882916**

- 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
- 3 each, irrigation tubing separate

### RAD™ 120 BLADE



#### 3.5 mm RAD™ 120 Blade

**1883517**

- 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



# Straight Sinus Burs

## OVAL BUR



### 3.2 mm Oval Bur, High-Speed

**1883264HS**

- 12.5 cm long with straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 rpm (forward)
- 3 each, irrigation tubing separate

## ROUND BURS



### 4.5 mm Round Bur, High-Speed

**1884560HS**

- 12.5 cm long with straight shaft
- Cannulated suction bur tip
- Application: sphenoid drilling
- Operating speed: up to 12,000 rpm (forward)
- 3 each, irrigation tubing separate



### 3.2 mm Round Bur, High-Speed

**1883262HS**

- 12.5 cm long with straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 rpm (forward)
- 3 each, irrigation tubing separate



### 2.9 mm Pediatric Round Bur

**1882960**

- 10.0 cm long with straight shaft
- Application: choanal atresia
- Operating speed: up to 5,000 rpm (forward)
- 5 each, irrigation tubing separate

## ROUTER BUR



### 4.5 mm Aggressive Router Bur, High-Speed

**1884562HS**

- 12.5 cm long with straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 rpm (forward)
- 3 each, irrigation tubing separate

## DRILL



### 2.0 mm Drill

**1882900**

- Operating speed: 6,000 rpm (forward)
- Irrigation tubing separate

## SINUS BUR SETS



### Mini-Trephination Set

The complete set includes:

- 1882900, 2.0 mm Drill
- 1892001, Drill Guide
- 1892002, Guide Pin
- 1892003, Irrigation Cannula
- 3717005, Instrument Tray (not shown)
- Irrigation tubing separate
- Developed in conjunction with Barry Schaitkin, MD



### Maxillary Trephination Set

Allows trephination through anterior face of the maxillary sinus while helping to reduce damage to dental nerve tissue.

The complete set includes:

- 1886301, Endoscope Sheath with Elevator, 4.0 mm  
Endoscope sheath helps deflect soft tissue and nerves during identification of drill site and guide placement
- 1893001, Maxillary Trephination Drill Guide, 5.0 mm  
Drill guide is irrigated
- 1884501, Maxillary Trephination Drill Bit, 5.0 mm
- 1893007, Maxillary Trephination Instrument Tray (not shown)
- Operating speed: 12,000 rpm (forward)
- Irrigation tubing separate
- Developed in conjunction with RJ Wormald, MD

Speeds are suggested rpm (revolutions per minute), operated in oscillation mode for blades and (forward) mode for burs.

Measurements are listed in



# SELECTING THE BEST BUR FOR THE JOB

## Modified Lothrop Procedure

One of the most technically challenging procedures for the rhinologist is the modified Lothrop procedure, where the frontal sinus nasal floor is removed endoscopically from lacrimal bone to lacrimal bone, including the interfrontal sinus septum and a portion of the nasal bony septum that adjoins the frontal sinus floor.

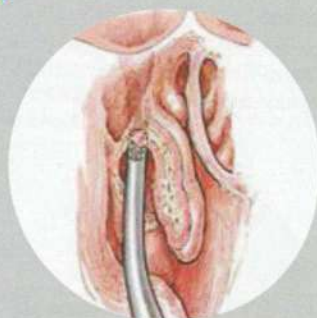
Choosing the right bur includes choosing the proper angle as well as its shape and aggressiveness. The RAD™ 55 Curved Sinus and the RAD™ Frontal Finesse Burs provide an elongated fluted geometry that can drill inferiorly to superiorly into the nasal crest, which can then be extended laterally in a controlled

manner (Figures 01 and 02). The 70° Tapered Diamond Bur can assist in extending the frontal sinus laterally, in a superior to inferior fashion (Figure 03).

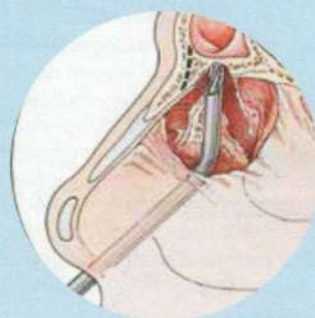
Higher frontal sinus cell partitions or osteomas may exist in patients' anatomy that need to be removed. This type of work would require a longer working length, thus the 70°, 5.0 mm ASB Diamond Bur may be the best option for this type of procedure.

**For the complete surgical technique, please contact your Medtronic ENT representative.**

01



02



03

