

INTERNATIONAL ENT PRODUCT AND INSTRUMENT CATALOG



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You may also reference the **Table of Contents (p. 4)** or the **Index (p. 291)** located within the document itself.

Welcome

Thank you for your interest in Medtronic ENT and our wide range of surgical products. We are committed to providing our customers with the highest quality products and service.

This catalog features product numbers, product descriptions, photographs, and/or line drawings to make your order selection as easy as possible. Utilizing our catalog when requesting a quote by telephone or fax expedites the ordering process.

Products in our catalog are organized into tabbed sections for each product line following the Table of Contents. The groups are:

- Powered Surgical Equipment and Accessories
- Endoscopes and Lens Cleaning Systems
- Nerve Monitoring Equipment
- Ventilation Tubes and Myringotomy Accessories
- Ossicular Reconstruction Implants and Accessories
- Hyaluronic Acid-Based Wound Healing and Packing Products
- Post-Op Packing, Splints, and Epistaxis Treatment Products
- Endotracheal Tubes and Other Anesthesia-Related Products
- Meniett® - Ménière's Disease Therapy Device
- Surgical Instruments
- MicroFrance® Surgical Instruments

The back of each tabbed divider features an index of products in the section. You will also find an alphabetical and a product number index in the back of the catalog.

This product catalog will be updated as frequently as possible. Please check with your local Medtronic ENT area sales manager for the latest product information or visit our website at www.MedtronicENT.com.

We appreciate your patronage and look forward to a successful relationship with you.



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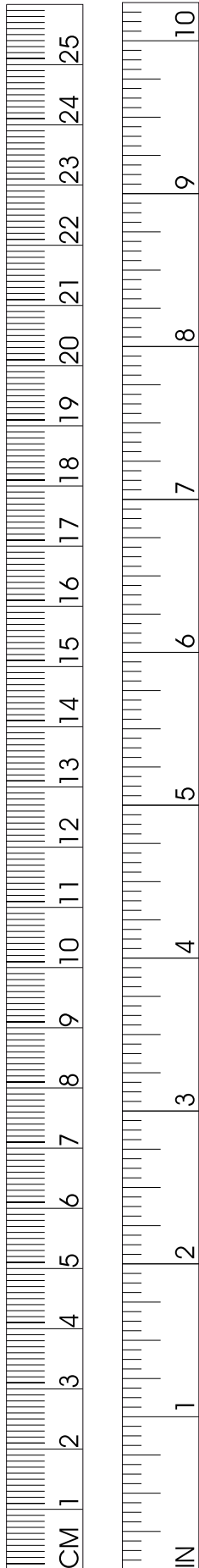
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Measurements, Standards & Conversions



Millimeter Equivalents

MM = INCHES	MM = INCHES	MM = INCHES
.1 = .00384	29.0 = 1.14173	65.0 = 2.55905
.2 = .00787	30.0 = 1.18110	66.0 = 2.59842
.3 = .01181	31.0 = 1.22047	67.0 = 2.63779
.4 = .01575	32.0 = 1.25984	68.0 = 2.67716
.5 = .01968	33.0 = 1.29921	69.0 = 2.71653
.6 = .02362	34.0 = 1.33858	70.0 = 2.75590
.7 = .02756	35.0 = 1.37795	71.0 = 2.79527
.8 = .03149	36.0 = 1.41732	72.0 = 2.83464
.9 = .03543	37.0 = 1.45669	73.0 = 2.87401
1.0 = .03937	38.0 = 1.49606	74.0 = 2.91338
2.0 = .07874	38.1 = 1.5 in	75.0 = 2.95275
3.0 = .11811	39.0 = 1.53543	76.0 = 2.99212
4.0 = .15748	40.0 = 1.57480	76.2 = 3.0 in
5.0 = .19685	41.0 = 1.61417	77.0 = 3.03149
6.0 = .23622	42.0 = 1.65354	78.0 = 3.07056
7.0 = .27559	43.0 = 1.69291	79.0 = 3.11023
8.0 = .31496	44.0 = 1.73228	80.0 = 3.14960
9.0 = .35433	45.0 = 1.77165	81.0 = 3.18897
10.0 = .39370	46.0 = 1.81102	82.0 = 3.22834
11.0 = .43307	47.0 = 1.85039	83.0 = 3.26771
12.0 = .47244	48.0 = 1.88976	84.0 = 3.30708
12.7 = .5 in	49.0 = 1.92913	85.0 = 3.34645
13.0 = .51181	50.0 = 1.96350	86.0 = 3.38582
14.0 = .55118	50.8 = 2.0 in	87.0 = 3.42519
15.0 = .59055	51.0 = 2.00787	88.0 = 3.46456
16.0 = .62992	52.0 = 2.04724	88.9 = 3.5 in
17.0 = .66929	53.0 = 2.08661	89.0 = 3.50393
18.0 = .70866	54.0 = 2.12598	90.0 = 3.54330
19.0 = .74803	55.0 = 2.16535	91.0 = 3.58267
20.0 = .78740	56.0 = 2.20472	92.0 = 3.62204
21.0 = .82677	57.0 = 2.24409	93.0 = 3.66141
22.0 = .86614	58.0 = 2.28346	94.0 = 3.70078
23.0 = .90551	59.0 = 2.32283	95.0 = 3.74015
24.0 = .94488	60.0 = 2.36220	96.0 = 3.77952
25.0 = .98425	61.0 = 2.40157	97.0 = 3.81889
25.4 = 1.0 in	62.0 = 2.44094	98.0 = 3.85826
26.0 = 1.02362	63.0 = 2.48031	99.0 = 3.89763
27.0 = 1.06299	63.5 = 2.5 in	100.0 = 3.93700
28.0 = 1.10236	64.0 = 2.51968	101.6 = 4.0 in

Needle Tubing Equivalents

SIZE GAUGE NO.	APPROX. O.D. MM	APPROX. O.D. I N
26	0.4	.018
24	0.5	.022
22	0.7	.028
20	0.9	.035
18	1.3	.053
16	1.6	.065
14	2.1	.083
12	2.8	.109
10	3.4	.134
8	4.2	.165
6	5.1	.203

Suction Tubing Equivalents

SIZE FRENCH GAUGE NO.	APPROX. O.D. MM	APPROX. O.D. I N
3	1.0	.039
4	1.3	.053
5	1.7	.066
6	2.0	.079
7	2.3	.092
8	2.7	.105
9	3.0	.118
10	3.3	.131
11	3.7	.144
12	4.0	.158
13	4.3	.170
14	4.7	.184
15	5.0	.197
16	5.3	.210

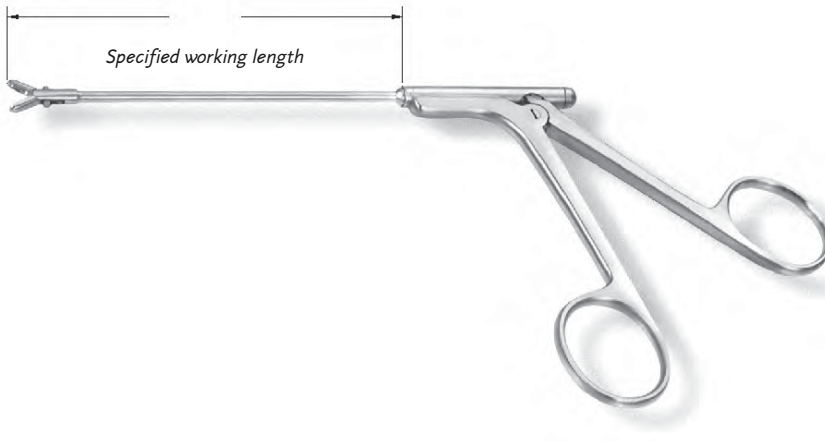
FORCEP MEASURING GUIDE

The dimensions given correspond to the following forcep measurements:

External Mechanism Forceps



External Mechanism Forceps



Through-cutting Forceps



Spoon- or Cup-style Forceps



Grasping Forceps

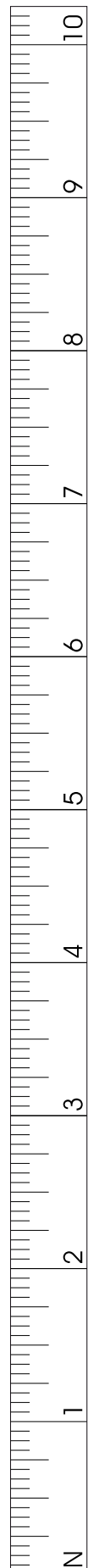
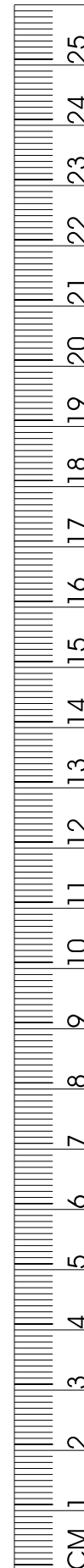
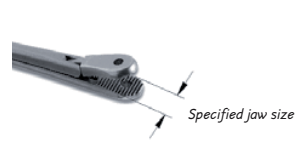


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XPS® 3000 POWERED ENT SYSTEM AND COMPONENTS



XPS 3000 – Powered ENT System

- Integrated dual pump design provides irrigation for Straightshot® microdebrider blades and for all burs and pumps coolant through our Visao® High-Speed Otologic Drill
- Easy-to-use procedure display suggests operating parameters for a variety of ENT procedures

Straightshot® M4 Microdebrider

- Rotating blade and handpiece design delivers more ergonomic, neutral hand position
- Rotating-tip curved blades allow medial and lateral cutting in the frontal sinus and more complete removal of polyps and mucin in the maxillary sinus
- Grooves in the side of the handpiece and clips integrated into the handpiece cable offer better tubing management
- Sculpted design and “chin” allow multiple hand positions
- Integrated blade locking function (in “chin”) terminates rotation function

Product	Description	Qty
1898000	XPS 3000 M4	1/ea
<i>System includes:</i>		
1897102	XPS 3000 Console, Two Pumps	1/ea
1895400	XPS Multi-Function Footswitch	1/ea
1898400	XPS Straightshot M4 Sterilization Tray	1/ea
1898200T	XPS Straightshot M4 High-Speed Microdebrider	1/ea

Choice of one Power Cord* (see below)

Choice of one User's Guide** (see below)



Visao® High-Speed Otologic Drill

- High-speed curved burs of various sizes provide better visibility and access in several procedures, including:
 - opening the internal auditory canal in an acoustic neuroma
 - performing a cochleostomy under direct vision
- High-speed curved burs feature an outer, non-rotating tube design to protect critical anatomy from mechanical injury
- 80,000 RPM forward and reverse operation provides power in debulking operations and finesse in delicate procedures
- Water-cooled design substantially reduces handpiece heat
- Ergonomic titanium construction improves balance and fit

Product	Description	Qty
3333619	XPS 3000 Visao Drill System includes:	1
1897102	XPS 3000 Console, Two Pumps	1/ea
1895400	Dual-Function Footswitch	1/ea
33-34800	Visao High Speed Otologic Drill	1/ea
33-34895	Visao Otologic Sterilization Tray	1/ea

Choice of one Power Cord* (see below)

Choice of one User's Guide** (see below)

***Choice of one Power Cord:**

1895820	Power Cord, Standard	1/ea
1895821	Power Cord, UK	1/ea
1895822	Power Cord, Continental Europe	1/ea
1895823	Power Cord, Japan	1/ea

****Choice of one User's Guide:**

1897851A	XPS 3000 User's Guide, EN/SP/FR/PO/EL	1/ea
1897851B	XPS 3000 User's Guide, EN/FR/DE/NL/IT	1/ea
1897851C	XPS 3000 User's Guide, EN/SW/DA/FI	1/ea
1897851D	XPS 3000 User's Guide, EN/CS/HU/PL	1/ea

XPS® 3000 POWERED ENT SYSTEM AND COMPONENTS

XPS 3000 – Powered ENT System – Straightshot Magnum II Microdebrider

- High-speed Straightshot® Magnum® II Microdebrider Handpiece operates in forward at speeds up to 12,000 RPM and 5,000 oscillating
- Easy-to-use procedure display suggests operating parameters for a variety of ENT procedures

18-97008 XPS 3000 High-Speed Microdebrider Single Pump System includes:

- 18-97101 XPS 3000 Console with Irrigation Pump
- 18-97200 XPS Straightshot Magnum II High-Speed Microdebrider Handpiece
- 18-95400 Dual-Function Footswitch
- 18-96840 XPS Straightshot Magnum Sterilization Tray
- 18-97510 XPS Pole Basket for Footswitch

and one of the following:

- 18-95820 Power Cord, 110v, US
- 18-95821 Power Cord, 230v, UK
- 18-95822 Power Cord, 230v, Continental Europe
- 18-95823 Power Cord, 100v, Japan (for sale in Japan only)

and one of the following:

- 18-97851A XPS Model 3000 System User's Guide, EN/SP/FR/PO/GR
- 18-97851B XPS Model 3000 System User's Guide, EN/FR//GE/DU/IT
- 18-97851C XPS Model 3000 System User's Guide, EN/SW/DA/FI
- 18-97851D XPS Model 3000 System User's Guide, EN/CS/HU/PL

18-97009 XPS 3000 High Speed Microdebrider Dual Pump System includes:

- 1897102 XPS 3000 Console with Irrigation and Cooling Pump
- 1897200 XPS Straightshot Magnum II High-Speed Microdebrider Handpiece
- 1895400 Dual-Function Footswitch
- 1896840 XPS Straightshot Magnum Sterilization Tray
- 1897510 XPS Pole Basket for Footswitch

and one of the following:

- 18-95820 Power Cord, 110v, US
- 18-95821 Power Cord, 230v, UK
- 18-95822 Power Cord, 230v, Continental Europe
- 18-95823 Power Cord, 100v, Japan

and one of the following:

- 18-97851A XPS Model 3000 System User's Guide, EN/SP/FR/PO/GR
- 18-97851B XPS Model 3000 System User's Guide, EN/FR//GE/DU/IT
- 18-97851C XPS Model 3000 System User's Guide, EN/SW/DA/FI
- 18-97851D XPS Model 3000 System User's Guide, EN/CS/HU/PL

XPS 3000 Accessories

Product	Description	Qty
18-96840	XPS Straightshot M4 Sterilization Tray	1/ea
18-97510	XPS IV Pole Basket for Footswitch	1/ea
18-95400	XPS Dual-Function Footswitch	1/ea
18-95410	XPS Single-Function Footswitch	1/ea
18-95505	XPS Accessory Cable, Short (Endo-Scrub®2)	1/ea



XPS® 3000 POWERED ENT SYSTEM AND COMPONENTS



18-98200T

Handpieces

Product	Qty	Product	Qty
33-27700 PowerForma® Handpiece, Straight	1/ea	30-55601 Skeeter® Ultra-Lite Handpiece	1/ea
33-27750 PowerForma Handpiece, Angled	1/ea	Oto Tool	
18-97200 Straightshot® Magnum® II	1/ea	19-94025 PowerForma Handpiece	1/ea
18-98200T Straightshot M4 Microdebrider	1/ea	Adapter for XPS 2000	1/ea
33-34895 Visao Otologic Drill			



33-27750

Irrigation Tubing

Product	Qty	Product	Qty
18-95500 XPS® Irrigator Pump	1/ea	33-18503 Irrigation Tubing Set, Sterile	4/bx
18-95520 PowerForma® to XPS Irrigator Adapter Tubing	5/bx	33-18506 High-Speed Drill Coolant Tubing Set	2/bx
18-95522 Straightshot to XPS Irrigation Tubing	5/bx	33-18600 Clips for Handpiece Cable/Tubing	10/bx
31-18505 Micro-Craft® Irrigation Tubing	1/ea	33-18700 Irrigation Tubing Retainer	1/ea
31-18515 Micro-Craft Irrigation Stylet	10/bx		
31-18535 Non-Vented Spike Adapter	20/bx		
31-28500 Micro-Craft Spike Adapter	1/ea		
33-18501 PowerForma Irrigation Tubing	1/ea		



33-27700

Visao® High-Speed Irrigation Collar/Bur Guards/Sterilization Tray

Product	Qty	Product	Qty
33-34625 Visao Extended Bur Guard without Irrigation	1/ea	33-34610 Visao Irrigation Sleeve Assembly	1/ea
33-34635 Visao Extended Bur Guard with Irrigation	1/ea	33-34895 Visao Otologic Sterilization Tray	1/ea



30-55601

Xcalibur® High-Speed Irrigation Collar/Bur Guards

Product	Qty	Product	Qty
33-33610 Irrigation Sleeve Assembly	1/ea	33-33645 64mm Bur Guard without Irrigation	1/ea
33-33655 64mm Bur Guard with Irrigation	1/ea	33-33625 75mm Bur Guard without Irrigation	1/ea
33-33635 75mm Bur Guard with Irrigation	1/ea		

Replacement Components for the XPS® 2000

Product	Qty	Product	Qty
18-95505 Accessory Cable, 2 ft.	1/ea	31-12600 Micro-Craft Cleaning Solution	1/ea
33-19000 XPS PowerForma Handpiece Kit	1/ea	31-11520 Micro-Craft Bur Rack	1/ea
18-95400 XPS 2000 Multi-function Footswitch	1/ea	31-12500 Micro-Craft Chuck Brush Cleaners	60/pk
19-94025 Console Adapter for PowerForma Handpiece	1/ea		



33-29000

Entröll® Precision Surgical Chair

- Adjustable padded armrests lock into position
- Round Sensafoam cushion enhances comfort
- Padded backrest adjusts horizontally and vertically
- Front-end locking system allows 360° pivot while maintaining position

Product	Qty
33-29000	1/ea

XPS® 3000 POWERED ENT SYSTEM AND COMPONENTS



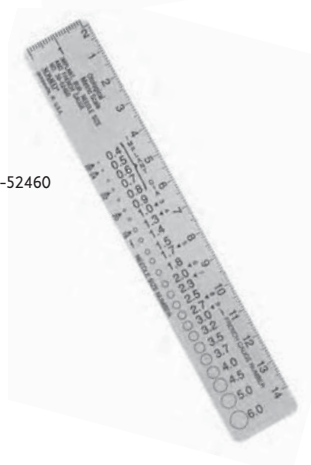
30-55601

Skeeter® Otologic Drill System – Complete (Battery-Operated)**

- Designed for advanced otological surgery of the middle ear or stapes footplate
- Skeeter handpiece weighs only 2 oz.
- Variable speed, footswitch-controlled
- Speeds up to 12,000 RPM
- Self-powered or use with MPS console with optional adapter
- Full range of patented, color-coded Oto-Flex burs available
- System includes the following components:
 - Ultra-Lite Handpiece (30-55601) Accelerator Foot Control (30-55607)**
 - Ultra-Lite Sterilization Case (31-55615) Oto-Flex Bur Set (6 burs) (31-55610)
 - 9V Batteries (package of 12) (31-58201)** Otologic Metric Scale (30-52460)

Product	Qty
30-55600 Skeeter Otologic Drill System*	1/ea

*Skeeter Drill is also compatible with XPS 2000 Console.



30-52460

Replacement Components for the Skeeter® Otologic Drill System

Product	Qty	Product	Qty
30-55601 Skeeter Ultra-Lite Handpiece	1/ea	31-55615 Skeeter Ultra-Lite Sterilization Tray	1/ea
30-55607 Skeeter Accelerator Foot Control**	1/ea	31-55610 Skeeter Oto-Flex Bur Set	1/ea
31-58201 9V Batteries (package of 12)**	1/ea	31-55637 Carbide Bur, 0.7mm	1/ea
30-52460 Skeeter Otologic Metric Scale	1/ea	31-55638 Carbide Bur, 0.8mm	1/ea
31-55647 Diamond Bur, 0.7mm	1/ea		
31-55648 Diamond Bur, 0.8mm	1/ea		

Handpiece for the Skeeter® Otologic Drill System (shown above)

- Delicate, curved needle-thin nose allows for minimal obstruction and improved visibility
- Designed for middle ear and stapes footplate procedures
- Instant variable speed from foot control
- Weight is only 2 ounces

Product	Qty
30-55601 Skeeter Ultra-Lite Handpiece	1/ea
31-55615 Ultra-Lite Sterilization Tray	1/ea

30-55607



Bur Set for Skeeter® Otologic Drill System (not shown)

- Available as a set or separately
- Low-friction sleeve bearing ensures concentricity
- Diamond burs are distinguished by dual-colored sleeve

Product	HD	Qty
31-55610 Skeeter Oto-Flex Bur Set 1 set including:		
31-55626 Black - drill	0.6mm	1/ea
31-55635 Violet - carbide	0.5mm	1/ea
31-55631 Orange - carbide	1.0mm	1/ea
31-55632 Red - carbide	2.3mm	1/ea
31-55641 Orange/White - diamond	1.0mm	1/ea
31-55642 Red/White - diamond	2.3mm	1/ea

**With XPS 2000 Console, 9V Batteries and Foot Control (30-55607) are not needed to run Skeeter Drill.

XPS® STRAIGHT SINUS BLADES



A



B



C



D



E



F

A. Tricut® Blade, 4mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft
- Offset cutting surface cuts in three planes
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84004HR	5/box with irrigation tubing

A. Tricut Blade, 4mm

- Length: 11cm
- Straight shaft
- Offset cutting surface cuts in three planes
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84004	5/box with irrigation tubing

B. Tricut Blade, 3.5mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft
- Offset cutting surface cuts in three planes
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83504HR	5/box with irrigation tubing

B. Tricut Blade, 3.5mm

- Length: 11cm
- Straight shaft
- Offset cutting surface cuts in three planes
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83504	5/box with irrigation tubing

C. Tricut Blade, 2.9mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft
- Offset cutting surface cuts in three planes
- Application: pediatric sinus surgery
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-82904HRE	1/ea with irrigation tubing

C. Tricut Blade, 2.9mm

- Length: 11cm
- Straight shaft
- Offset cutting surface cuts in three planes
- Application: pediatric sinus surgery
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-82904	5/box with irrigation tubing

D. Serrated Blade, 4mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84002HRE	1/ea with irrigation tubing

D. Serrated Blade, 4mm

- Length: 11cm
- Straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84002	5/box with irrigation tubing

E. Serrated Blade, 3.5mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83502HRE	1/ea with irrigation tubing

E. Serrated Blade, 3.5mm

- Length: 11cm
- Straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83502	5/box with irrigation tubing

F. Serrated Blade, 2.9mm, M4 Rotatable

- Length: 11cm
- Straight shaft
- Application: pediatric sinus surgery
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-82902HRE	1/ea with irrigation tubing

F. Serrated Blade, 2.9mm

- Length: 11cm
- Straight shaft
- Application: pediatric sinus surgery
- Operating speed: 5,000 RPM - oscillate

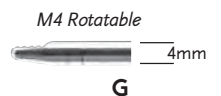


Product	Qty
18-82902	5/box with irrigation tubing

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

Customize your XPS System. Medtronic ENT offers blades and burs for sinus surgery, laryngeal applications, powered adenoidectomy, and facial plastic surgery.

XPS® STRAIGHT SINUS BLADES



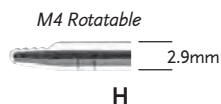
G. Silver Bullet® Blade, 4mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Developed in conjunction with Rodney Lusk, MD

Product	Qty
18-84005HRE	1/ea with irrigation tubing



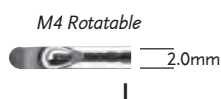
G. Silver Bullet Blade, 4mm

- Length: 11cm
- Straight shaft
- Application: ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Developed in conjunction with Rodney Lusk, MD

Product	Qty
18-84005	5/box with irrigation tubing



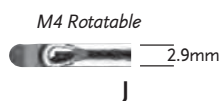
I. Inferior Turbinate Blade, 2mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft with elevator
- Application: submucosal resection of inferior turbinate
- Operating speed: 60-3,000 RPM - oscillate



Developed in conjunction with Laurence O'Halloran, MD

Product	Qty
18-82040HR	5/box with irrigation tubing



H. Silver Bullet Blade, 2.9mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft
- Application: choanal atresia
- Operating speed: 5,000 RPM - oscillate



Developed in conjunction with Rodney Lusk, MD

Product	Qty
18-82905HRE	1/each with irrigation tubing

I. Inferior Turbinate Blade, 2mm

- Length: 11cm
- Straight shaft with elevator
- Application: submucosal resection of inferior turbinate
- Operating speed: 60-3,000 RPM - oscillate



Developed in conjunction with Laurence O'Halloran, MD

Product	Qty
18-82040	5/box with irrigation tubing

H. Silver Bullet Blade, 2.9mm

- Length: 11cm
- Straight shaft
- Application: choanal atresia
- Operating speed: 5,000 RPM - oscillate



Developed in conjunction with Rodney Lusk, MD

Product	Qty
18-82905	5/box with irrigation tubing

J. Inferior Turbinate Blade, 2.9mm, M4 Rotatable

- Length: 11cm
- Rotates through 360°
- Straight shaft with elevator
- Application: submucosal resection of inferior turbinate
- Operating speed: 60-3,000 RPM - oscillate



Developed in conjunction with Laurence O'Halloran, MD

Product	Qty
18-82940HR	5/box with irrigation tubing

J. Inferior Turbinate Blade, 2.9mm

- Length: 11cm
- Straight shaft with elevator
- Application: submucosal resection of inferior turbinate
- Operating speed: 60-3,000 RPM - oscillate

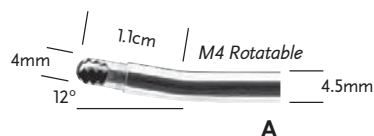


Developed in conjunction with Laurence O'Halloran, MD

Product	Qty
18-82940	5/box with irrigation tubing

Customize your XPS System. Medtronic ENT offers blades and burs for sinus surgery, laryngeal applications, powered adenoidectomy, and facial plastic surgery.

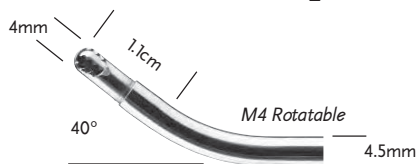
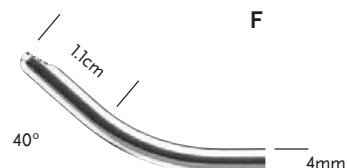
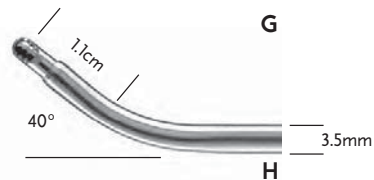
XPS® CURVED SINUS BLADES


A

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H

A. RAD® 12 Curved Blade, 4mm, M4 Rotatable

- Length: 11cm
- Straightshot® M4 rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84012HR	5/box, irrigation tubing separate

B. RAD 12 Curved Blade, 4mm

- Length: 11cm
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84012	5/box, irrigation tubing separate

C. RAD 12 Curved Blade, 3.5mm, M4 Rotatable

- Length: 11cm
- Straightshot® M4 rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83512HRE	1/each, irrigation tubing separate

D. RAD 12 Curved Blade, 3.5mm, Key Rotatable

- Length: 11cm
- Key rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 3,000 RPM - oscillate



For use with Straightshot Magnum® II

Product	Qty
18-83514RT	3/box, irrigation tubing separate

E. RAD 12 Curved Blade, 3.5mm

- Length: 11cm
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83514	5/box, irrigation tubing separate

F. RAD 40 Curved Blade, 4mm, M4 Rotatable

- Length: 11cm
- Straightshot M4 rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84006HR	5/box, irrigation tubing separate

G. RAD 40 Curved Blade, 4mm

- Length: 11cm
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84006	5/box, irrigation tubing separate

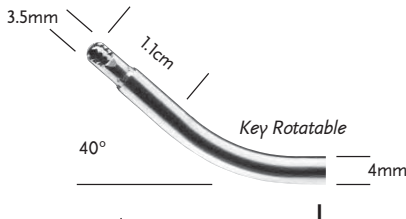
H. RAD 40 Curved Blade, 3.5mm, M4 Rotatable

- Length: 11cm
- Straightshot M4 rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83506HRE	1/ea irrigation tubing separate

XPS® CURVED SINUS BLADES



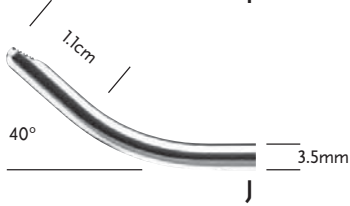
I. RAD 40 Blade, 3.5mm, Key Rotatable

- Length: 11cm
- Key rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: frontal sinus pediatric surgery
- Operating speed: 5,000 RPM - oscillate



For use with Straightshot Magnum® II

Product	Qty
18-83507RT	3/box, irrigation tubing separate

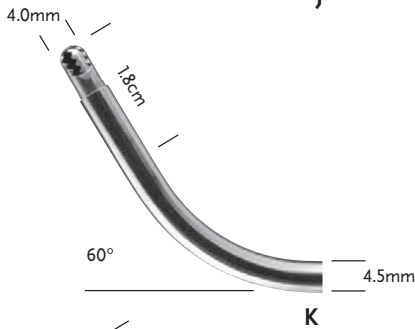


J. RAD 40 Blade, 3.5mm

- Length: 11cm
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83507	3/box, irrigation tubing separate

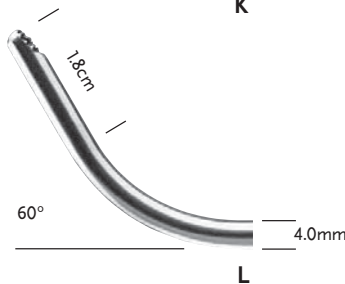


K. RAD 60 Curved Blade, 4mm, M4 Rotatable

- Length: 11cm
- Straightshot® M4 rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: frontal sinus surgery
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84016HR	5/box, irrigation tubing separate



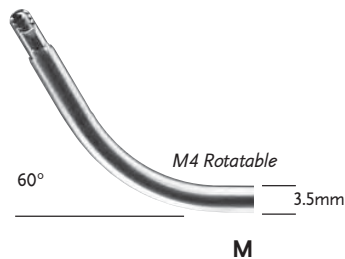
L. RAD 60 Curved Blade, 4mm

L. RAD 60 Curved Blade, 4mm

- Length: 11cm
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: frontal sinus surgery
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-84016	5/box, irrigation tubing separate



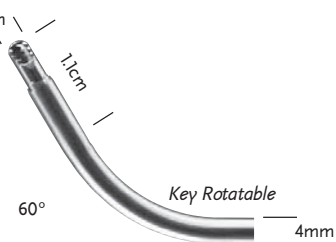
M. RAD 60 Curved Blade, 3.5mm, M4 Rotatable

M. RAD 60 Curved Blade, 3.5mm, M4 Rotatable

- Length: 11cm
- Straightshot® M4 rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: frontal sinus surgery
- Operating speed: 5,000 RPM - oscillate



Product	Qty
18-83516HRE	1/box, irrigation tubing separate



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

N. RAD 60 Curved Blade, 3.5mm, Key Rotatable

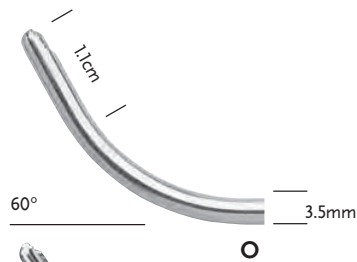
- Length: 11 cm
- Key rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: frontal sinus surgery
- Operating speed: 5,000 RPM - oscillate



For use with Straightshot Magnum® II

Product	Qty
18-83516RT	3/box, irrigation tubing separate

XPS® CURVED SINUS BLADES



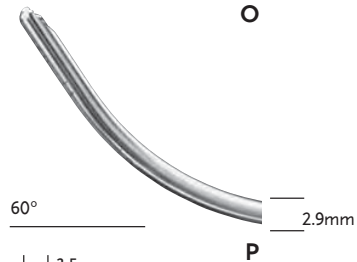
O. RAD 60 Curved Blade, 3.5mm

- Length: 11cm
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: frontal sinus surgery
- Operating speed: 5,000 RPM - oscillate



Developed in conjunction with William Bolger, MD

Product	Qty
18-83516	3/box, irrigation tubing separate



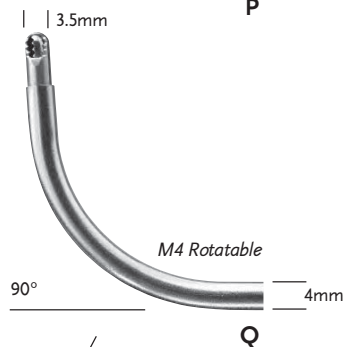
P. RAD 60 Curved Blade, 2.9mm

- Length: 11cm
- Curved shaft
- Offset cutting surface cuts in three planes
- Same inner lumen as wider 3.5mm blades
- Application: frontal sinus surgery
- Operating speed: 5,000 RPM - oscillate



Developed in conjunction with William Bolger, MD

Product	Qty
18-82916	3/box, irrigation tubing separate

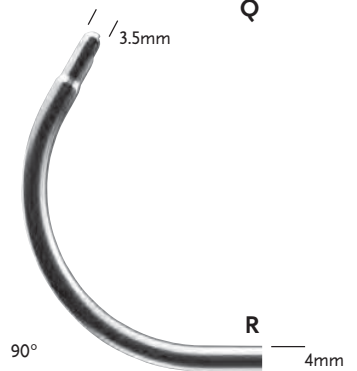


Q. RAD 90 Curved Blade, 3.5mm, M4 Rotatable

- Length: 11cm
- Straightshot® M4 rotates blade tip 360° without shaft rotation
- Curved shaft
- Offset cutting surface cuts in three planes
- Application: maxillary polypectomy, frontal sinusotomy
- Operating speed: 2,000-3,000 RPM - oscillate



Product	Qty
18-83519HR	3/box, irrigation tubing separate



R. RAD 120 Curved Blade, 3.5mm

- Length: 11cm
- Curved shaft
- Tapered tip to allow maximum bend angle
- Application: maxillary polypectomy
- Operating speed: 1,500-3,000 RPM - oscillate



Product	Qty
18-83517	3/box, irrigation tubing separate

S. RAD 12 Microscopy Blade, 4mm

- Length: 13cm
- Multi-bend curved shaft for use with operating microscope
- Offset cutting surface cuts in three planes
- Application: uncinectomy, ethmoidectomy
- Operating speed: 3,000 RPM - oscillate



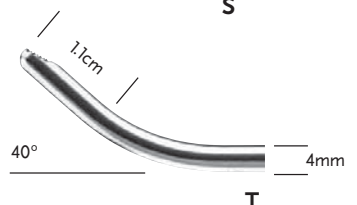
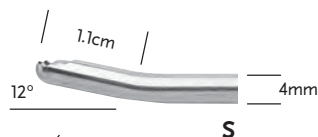
Product	Qty
18-84012M	5/box, with irrigation tubing

T. RAD 40 Microscopy Blade, 4mm

- Length: 14cm
- Multi-bend curved shaft for use with operating microscope
- Offset cutting surface cuts in three planes
- Application: frontal sinus surgery
- Operating speed: 3,000 RPM - oscillate
- Irrigation tubing separate

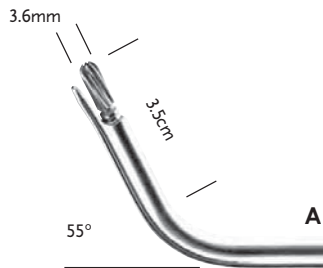


Product	Qty
18-84006M	3/box, irrigation tubing separate



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

XPS® CURVED SINUS BURS

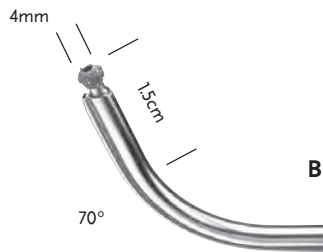


A. RAD® 55 Curved Bur, High-Speed, 3.6mm

- Length: 13cm
- Curved shaft
- Cannulated suction bur tip
- Application: frontal sinus drilling
- Operating speed: up to 12,000 RPM FWD



Product	Qty
18-83670HS	3/box



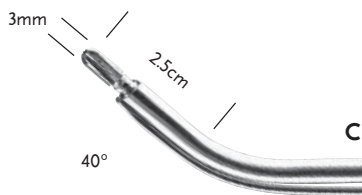
B. Tapered Diamond Bur, High-Speed, 4mm

- Length: 13cm
- Curved shaft
- Cannulated suction bur tip
- Application: frontal sinusotomy
- Operating speed: up to 12,000 RPM FWD



Developed in conjunction with David Kennedy, MD

Product	Qty
18-83672HS	3/box



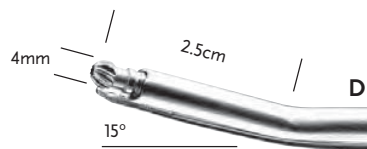
C. RAD Frontal Finesse Bur, High-Speed, 3mm

- Length: 13cm
- Curved shaft
- 8 flutes
- Cannulated suction bur tip
- Application: frontal sinus drilling
- Operating speed: up to 12,000 RPM FWD



Developed in conjunction with Donald Leopold, MD

Product	Qty
18-83070HS	3/box



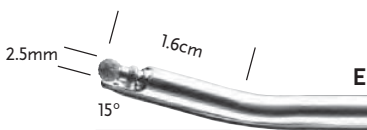
D. Curved DCR Bur, High-Speed, 4mm

- Length: 11cm
- Curved shaft
- Application: endoscopic drilling of lacrimal bone
- Operating speed: up to 12,000 RPM FWD



Developed in conjunction with Michael Mercandetti, MD

Product	Qty
18-84068HS	3/box



E. Curved Diamond DCR Bur, High-Speed, 2.5mm

- Length: 11cm
- Curved shaft
- Cannulated suction bur tip
- Application: endoscopic drilling of lacrimal bone
- Operating speed: up to 12,000 RPM FWD



Developed in conjunction with P.J. Wormald, MD

Product	Qty
18-82569HS	3/box



F. Curved Diamond Bur, High-Speed, 5mm

- Length: 12.5cm
- Curved shaft
- Cannulated suction bur tip
- Application: trans-sphenoidal surgery
- Operating speed: up to 12,000 RPM FWD



Developed in conjunction with David Kennedy, MD

Product	Qty
18-85061HS	3/box



G. Choanal Atresia Bur, High-Speed, 4mm

- Length: 13cm
- Curved shaft
- Cannulated suction bur tip
- Application: removal of vomer
- Operating speed: up to 12,000 RPM FWD



Developed in conjunction with Gary Josephson, MD

Product	Qty
18-83673HS	3/box



H. Septoplasty Bur, High-Speed, 3.2mm

- Length: 11cm
- Curved shaft
- Cannulated suction bur tip
- Application: removal of bony and cartilaginous septal deviations
- Operating speed: up to 12,000 RPM FWD



Developed in conjunction with Donald Leopold, MD, and Eileen Raynor, MD

Product	Qty
18-83212HS	3/box

XPS® STRAIGHT SINUS BURS


A

A. Pediatric Round Bur, 2.9mm

- Length: 10cm
- Straight shaft
- Application: choanal atresia
- Operating speed: up to 6,000 RPM FWD

Product	Qty
18-82960	5/box


B

B. Round Bur, High-Speed, 3.2mm

- Length 12.5cm
- Straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 RPM FWD

Product	Qty
18-83262HS	3/box


C

C. Aggressive Router Bur, High-Speed, 4.5mm

- Length 12.5cm
- Straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 RPM FWD

Product	Qty
18-84562HS	3/box


D

D. Round Bur, High-Speed, 4.5mm

- Length 12.5cm
- Straight shaft
- Cannulated suction bur tip
- Application: sphenoid drilling
- Operating speed: up to 12,000 RPM FWD

Product	Qty
18-84560HS	3/box


E

E. Oval Bur, High-Speed, 3.2mm

- Length 12.5cm
- Straight shaft
- Cannulated suction bur tip
- Application: sinus drilling
- Operating speed: up to 12,000 RPM FWD

Product	Qty
18-83264HS	3/box

F. Mini-Trephination Set, Complete

The complete set includes:

- 18-82900, 2mm Drill
- 18-92001, Drill Guide
- 18-92002, Guide Pin
- 18-92003, Irrigation Cannula
- 37-17005, Sterilization Tray (not shown)

Developed in conjunction with Barry Schaitkin, MD

Product	Qty
18-92000	1 set

G. 2mm Drill

- Straight shaft
- Application: mini-trephination
- Operating speed: up to 6,000 RPM FWD

Product	Qty
18-82900	1/ea


F

H. Maxillary Trephination Set

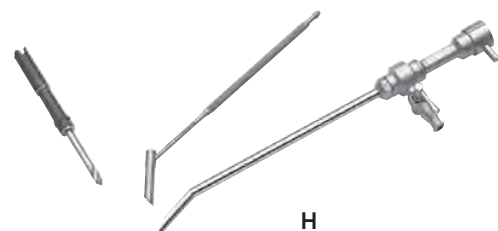
- Allows trephination through anterior face of the maxillary sinus while reducing damage to dental nerve tissue
- Operating speed: 12,000 RPM FWD

The complete set includes:

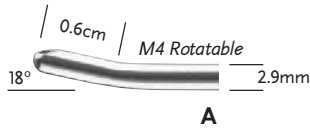
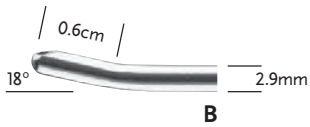
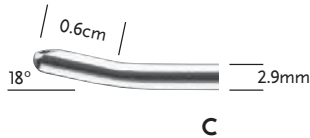
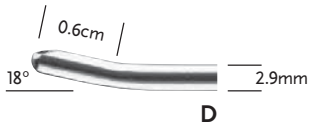
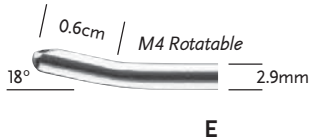
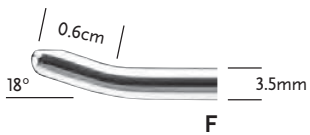
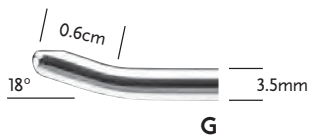
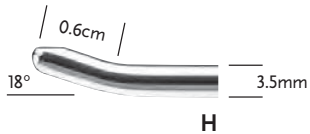
- 18-86301, Endoscope Sheath with Elevator, 4mm
 - >> *Endoscope sheath deflects soft tissue and nerves during identification of drill site and guide placement*
- 18-93001, Maxillary Trephination Drill Guide, 5mm
 - >> *Drill guide is irrigated*
- 18-84501, Maxillary Trephination Drill Bit, 5mm
- 18-93007, Maxillary Trephination Set Sterilization Tray (not shown)

Developed in conjunction with PJ Wormald, MD

Product	Qty
18-93000	1/ea


H

XPS LARYNGEAL BLADES


A

B

C

D

E

F

G

H

I

A. Skimmer® Angle-Tip Blade, 2.9mm, M4 Rotatable

- Length: 18cm
- Straightshot M4 rotates blade tip 360° without shaft rotation
- Double-curved blade
- Low-profile distal bend
- Application: papilloma removal and transsphenoidal hypophysectomy
- Operating speed: 60-500 RPM



Product	Qty
18-82925HRE	1/each with irrigation tubing

B. Skimmer Angle-Tip Blade, 2.9mm

- Length: 18cm
- Double-curved blade
- Low-profile distal bend
- Inner suction path is the same as larger curved blade
- Application: infant papilloma removal and trans-sphenoidal hypophysectomy
- Operating speed: 60-500 RPM



Product	Qty
18-82925	3/box, with irrigation tubing

C. Skimmer Angle-Tip Blade, 2.9mm, M4 Rotatable

- Length: 22cm
- Straightshot M4 rotates blade tip 360° without shaft rotation
- Double-curved blade
- Low-profile distal bend
- Application: papilloma removal and transsphenoidal hypophysectomy
- Operating speed: 60-500 RPM



Product	Qty
18-82923HRE	1/ea with irrigation tubing

D. Skimmer Angle-Tip Blade, 2.9mm

- Length: 22.5cm
- Double-curved blade
- Low-profile distal bend
- Inner suction path is the same as larger curved blade
- Application: infant papilloma removal and trans-sphenoidal hypophysectomy
- Operating speed: 60-500 RPM



Product	Qty
18-82923	3/box, with irrigation tubing

E. Skimmer Angle-Tip Blade, 2.9mm, M4 Rotatable

- Length: 27cm
- Straightshot M4 rotates blade tip 360° without shaft rotation
- Double-curved blade
- Low-profile distal bend
- Application: subglottic papilloma removal
- Operating speed: 60-500 RPM



Product	Qty
18-82924HRE	1/ea with irrigation tubing

F. Skimmer Angle-Tip Blade, 3.5mm

- Length: 18cm
- Double-curved blade
- Low-profile distal bend
- Application: supraglottic papilloma removal
- Operating speed: 60-500 RPM



Developed in conjunction with Craig Derkay, MD, and David Darrow, MD

Product	Qty
18-83525	3/box, with irrigation tubing

G. Skimmer Angle-Tip Laryngeal Blade, 3.5mm

- Length: 22.5cm
- Double-curved blade
- Low-profile distal bend
- Application: supraglottic papilloma removal; Reinke's Edema
- Operating speed: 60-500 RPM



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

Product	Qty
18-83523	3/box, with irrigation tubing

H. Skimmer Angle-Tip Subglottic Blade, 3.5mm

- Length: 27.5cm
- Double-curved blade
- Low-profile distal bend
- Application: supraglottic papilloma removal
- Operating speed: 60-500 RPM



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

Product	Qty
18-83524	3/box, with irrigation tubing

I. Skimmer Angle-Tip Laryngeal Blade, 4mm

- Length: 22.5cm
- Double-curved blade
- Application: supraglottic papilloma debulking
- Operating speed: 60-500 RPM



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

Product	Qty
18-84023	3/box, with irrigation tubing

XPS LARYNGEAL BLADES


J

K

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Q

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J. Skimmer® Angle-Tip Subglottic Blade, 4mm

- Length: 27.5cm
- Double-curved blade
- Application: subglottic papilloma debulking
- Operating speed: 60-500 RPM



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

Product	Qty
18-84024	3/box, with irrigation tubing

K. Tritcut® Angle-Tip Laryngeal Blade, 4mm

- Length: 22.5cm
- Double-curved blade
- Application: tumor debulking
- Operating speed: 1,500 RPM



Product	Qty
18-84030	3/box, with irrigation tubing

L. Tritcut Angle-Tip Subglottic Blade, 4mm

- Length: 27.5cm
- Double-curved blade
- Application: tracheal stenosis
- Operating speed: 1,500 RPM



Product	Qty
18-84031	3/box, with irrigation tubing

M. Tritcut Straight-Tip Laryngeal Blade, 4mm

- Length: 22.5cm
- Straight tip with curve at handpiece
- Application: debulking of RRP lesions
- Operating speed: 1,200 RPM



Product	Qty
18-84020	1/ea, with irrigation tubing

N. Straight Tracheal Blade, 4mm

- Length: 37cm
- Straight tip to allow access through smaller diameter bronchoscope
- Application: debulking of distal RRP lesions
- Operating speed: 1,200 RPM



Product	Qty
18-84032	1/box, with irrigation tubing

O. Angle-Tip Tracheal Blade, 4mm

- Length: 37cm
- Angle-tip allows better visibility with endoscopy
- Application: debulking of distal RRP lesions
- Operating speed: 1,200 RPM



Developed in conjunction with Paul Flint, MD

Product	Qty
18-84033	1/box, with irrigation tubing

P. Serrated Angle-Tip Blade, 2.9mm

- Length: 18cm
- Double-curved blade
- Application: papilloma and hemangioma removal
- Operating speed: 500-1,500 RPM



Product	Qty
18-82936E	1/each with irrigation tubing

Q. Serrated Angle-Tip Blade, 2.9mm

- Length: 22cm
- Double-curved blade
- Application: papilloma and hemangioma removal
- Operating speed: 500-1,500 RPM



Product	Qty
18-82937E	1/each with irrigation tubing

R. Tritcut Angle-Tip Laryngeal Blade, 4mm, M4 Rotatable

- Length: 22cm
- Double-curved blade
- Application: tumor debulking
- Operating speed: 1,200 RPM



Product	Qty
18-84030HRE	1/box, with irrigation tubing

S. Tritcut Angle-Tip Subglottic Blade, 4mm, M4 Rotatable

- Length: 27cm
- Double-curved blade
- Application: tracheal stenosis
- Operating speed: 1,200 RPM



Product	Qty
18-84031HRE	1/box, with irrigation tubing

T. Tritcut Angle-Tip Tracheal Blade, 4mm, M4 Rotatable

- Length: 37cm
- Double-curved blade
- Application: debulking of distal RRP lesions
- Operating speed: 1,200 RPM



Product	Qty
18-84033HRE	1/box, with irrigation tubing

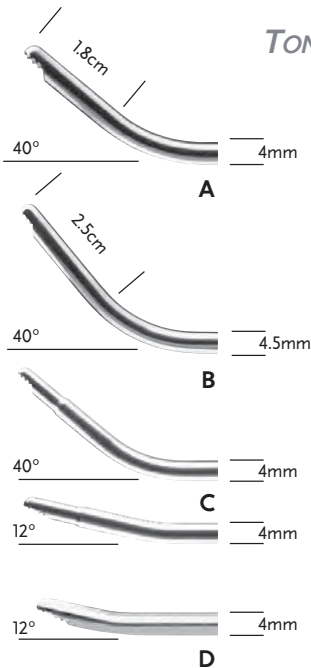
U. Tritcut Angle-Tip Bronchial Blade, 4mm, M4 Rotatable

- Length: 45cm
- Double-curved blade allows tumor removal through a rigid bronchoscope
- Application: debulking of bronchial lesions
- Operating speed: 500-1,200 RPM



Product	Qty
18-84035HRE	1/box, with irrigation tubing

TONSILLECTOMY AND ADENOIDECTOMY BLADES



A. RADenoid® Pediatric Blade, 4mm

- Length: 11cm
- Curved blade
- Application: adenoidectomy
- Operating speed: 1,500 RPM



Designed in conjunction with Max April, MD, and J. Lindhe Guarisco, MD

Product	Qty
18-84008	5/box

B. RADenoid Adult Blade, 4.5mm

- Length: 13cm
- Curved blade
- Application: adenoidectomy
- Allows better access into the choana
- Operating speed: 1,500 RPM

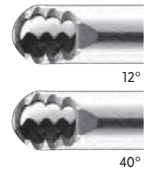


Designed in conjunction with Max April, MD, and J. Lindhe Guarisco, MD

Product	Qty
18-84507	5/box

C. Powered T&A Blade Set

- Length: 13cm
- Removable inner cutting tube
- 40° outer blade designed for powered adenoidectomy
- 12° outer blade designed for powered intracapsular tonsillectomy
- Operating speed: 1,500 RPM

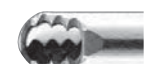


Developed in conjunction with Peter J. Koltai, MD

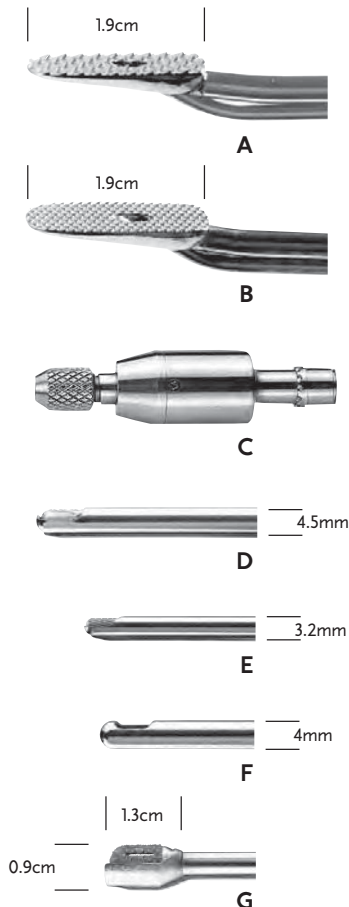
Product	Qty
18-84008TA	5/box

D. Tonsillectomy Blade, 4mm

- Length: 11cm
- 12° blade
- Application: intracapsular tonsillectomy
- Operating speed: 1,500 RPM

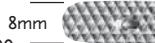


Product	Qty
18-84013	5/box



A. FeatherTouch® Suction Rasp Tip

- Length: 8.4cm
- Coarse tip
- Operating speed: 3,000-5,000 RPM FWD
- Suction integrated into rasp face
- Used with Suction Tubing (18-95524)
- Used with Feather Touch Converter (19-22005)
- Application: rhinoplasty, dorsal hump reduction

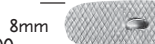


Developed in conjunction with Ted Cook, MD; M. Eugene Tardy, MD; and Dan Becker, MD

Product	Qty
19-92208	2/box

B. FeatherTouch Suction Rasp Tip

- Length: 8.4cm
- Fine tip
- Operating speed: 3,000-5,000 RPM FWD
- Suction integrated into rasp face
- Used with Suction Tubing (18-95524)
- Used with Feather Touch Converter (19-22005)
- Application: rhinoplasty, dorsal hump reduction



Developed in conjunction with Ted Cook, MD; M. Eugene Tardy, MD; and Dan Becker, MD

Product	Qty
19-92210	2/box

C. FeatherTouch Converter

- Converts forward rotation to reciprocation
- Used in conjunction with rasp tips, suction tubing and sterilizing tray (19-22006)



Product	Qty
19-22005	2/box

AESTHETIC BLADES AND BURS

D. RhinoBur®

- Length: 10cm
- Application: rhinoplasty
- Operating speed: 4,000-6,000 RPM FWD



Developed in conjunction with Dean Toriumi, MD

Product	Qty
18-84566	3/box

E. Tardy MicroBur®

- Length: 10cm
- Application: rhinoplasty
- Operating speed: 3,000-5,000 RPM FWD



Developed in conjunction with M. Eugene Tardy, MD

Product	Qty
18-83260	5/box

F. Micro-Planer® Blade

- Length: 11cm
- Application: submental soft tissue removal
- Operating speed: 1,000-2,000 RPM – oscillate



Developed in conjunction with Ted Cook, MD

Product	Qty
18-84010	5/box

G. HydroBrader® Irrigating/Aspirating Dermabrader

- Coarse grit
- Application: dermabrasion
- Operating speed: 3,500-5,000 RPM FWD



Product	Qty
19-22100	3/box

XPS[®] ACCESSORIES

Irrigation Tubing for Blades and Burs *(not shown)*

Product	Qty
18-95522 Irrigation Tubing	5/box

Oral Stabilizer for Powered Adenoidectomy

- Exclusive, longer loop design improves handpiece maneuverability and blade access
- For use with the Straightshot Handpiece and the RADenoid Adenoidectomy Blade (18-84008)

Developed in conjunction with Max April, MD



Product	Qty
37-34000 Oral Stabilizer, Left	1/ea
37-34001 Oral Stabilizer, Right	1/ea
37-34002 Oral Stabilizer, Set	1/ea

Works with Davis Mouth Gag Blades:

37-34075 No. 1	1/ea
37-34076 No. 1 1/2	1/ea
37-34077 No. 2	1/ea
37-34078 No. 2 1/2	1/ea
37-34079 No. 3	1/ea
37-34080 No. 3 1/2	1/ea
37-34081 No. 4	1/ea
37-34082 No. 5	1/ea

Lee-Ahn Sinus Injection Needle Sheath

- Used with a control syringe and a 25-gauge, 2 1/2" spinal needle
- Protects the mucosa while positioning the needle
- Facilitates examination of sinus structures by enabling manipulation of tissue

Developed in conjunction with Kelvin Lee, MD and Min Ahn, MD







Product	Qty
37-24397 Sinus Injection Needle Sheath	1/ea

Cleaning Accessories for the PowerForma and MPS 2000/1000 Systems

Product	Qty
31-12600 Micro-Craft [®] Cleaning Solution	1/ea
31-18515 Micro-Craft Cleaning Stylets	10/box
31-12500 Micro-Craft Chuck Brush Cleaner (pipe cleaners)	60/pk

High-Speed Cochleostomy Burs**

- Innovative, 20° curved design
- Use at speeds up to 80,000 rpm
- 1 per box

Curved Fluted Cutting Burs	Bur Diameter (mm)	S H A F T L E N G T H	
		98mm	
	1	31-151098E	
	1.5	31-151598E	
Curved Fine Diamond Burs	Bur Diameter (mm)	S H A F T L E N G T H	
		98mm	
	0.5	31-180598E	
	0.6	31-180698E	
	1	31-181098E	
	1.5	31-181598E	



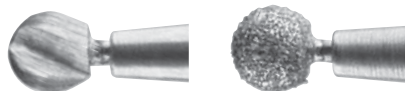
The revolutionary 20° curved burs allow better visibility and access to the surgical field during complex procedures with only small access holes or speculums. Each bur's thin outer sheath leaves very little rotating shaft exposed, which helps protect delicate tissue from a spinning shaft.







**For use with Visao High-Speed Otologic Drill only.
Speeds are suggested RPM (revolutions per minute).

OTOLOGIC BURS

High-Speed Curved Burs*

- Innovative, 20° curved design
- Use at speeds up to 80,000 rpm
- 1 per box
















Curved Fluted Cutting Burs	Bur Diameter (mm)	S H A F T L E N G T H	
		90mm	115mm
	1		31-1710115E
	1.5		31-1715115E
	2	31-152090E	31-1720115E
Curved Fine Diamond Burs	Bur Diameter (mm)	90mm	115mm
	1		31-1910115E
	2	31-182090E	31-1920115E
Curved Coarse Diamond Burs	Bur Diameter (mm)	90mm	115mm
	2	31-202090E	31-2120115E

OTOLOGIC BURS

Round Stainless Steel Cutting

- 5 per box



	Bur Diameter (mm)	Bur Type	Part Number	Bur Length
	0.5	51mm	31-12900C	51mm
		64mm*	31-140564	64mm
	1	51mm	31-12901C	52mm
		64mm*	31-141064	65mm
		75mm*	31-141075	76mm
	1.5	51mm	31-12906C	52mm
		64mm*	31-141564	65mm
		75mm*	31-141575	76mm
	2	51mm	31-12907C	57mm
		64mm*	31-142064	66mm
		75mm*	31-142075	77mm
	2.3	51mm	31-12910C	53mm
		64mm*	31-142364	66mm
	2.5	51mm	31-12908C	53mm
	3	Standard	31-213054U	57mm
		Long*	9769B	72mm
		51mm	31-12912C	54mm
		64mm*	31-12964C	67mm
		75mm*	31-12974C	78mm
	3.2	51mm	31-12915C	54mm
	3.5	51mm	31-12917C	54mm
	4	Standard	31-214053U	57mm
		Long*	9789B	72mm
	5	Standard	31-215047U	52mm
		Long*	9809B	71mm
	6	Standard	31-216046U	52mm
	7	Standard	31-217045U	52mm










*Requires bur guard

OTOLOGIC BURS

Acorn Stainless Steel Cutting

- 5 per box
- Titanium nitride coated for sharp cutting edge throughout procedure



BUR TYPE	Bur Diameter (mm)	SHAFT LENGTH		
		44mm	51mm	64mm
	1		31-12810C	31-031064*
	1.4		31-12815C	31-031464*
	2.3		31-12820C	31-032364*
	2.7		31-12825C	31-032764*
	3.7		31-12830C	31-033764*
	4.6		31-12835C	31-034664*
	5	31-12840C	31-035051	
	6	31-12845C	31-036051	
	6.9	31-12850C	31-036951	









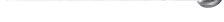





* Requires bur guard

OTOLOGIC BURS

Round Carbide Cutting

- 1 per box
- Use at speeds up to 52,000 rpm



BUR TYPE	Bur Diameter (mm)	SHAFT LENGTH		
		51mm	64mm	75mm
	0.5		31-060564*	
	1		31-061064*	31-061075*
	1.5			31-061575*
	2		31-062064*	31-062075*
	2.3	31-27520		
	3		31-27653*	31-27754*
	3.2	31-27525		
	4	31-27530	31-27654*	31-27755*
	4.8	31-27535		
	5		31-27655*	
	5.5	31-065551		
	6		31-066064*	
	6.5	31-066551		
	7	31-067051		













* Requires bur guard

OTOLOGIC BURS

Acorn Carbide Cutting

- 1 per box
- Use at speeds up to 52,000 rpm



BUR TYPE	Bur Diameter (mm)	SHAFT LENGTH		
		44mm	51mm	64mm
	1		31-12517	31-011064*
	1.4		31-12518	31-011464*
	2.3		31-12520	31-012364*
	2.7		31-12545	31-012764*
	3			31-21516*
	3.7		31-12525	
	4			31-21517*
	4.6		31-12530	
	5	31-12535		31-21518*
	6	31-12540		31-016064*
	6.9	31-12542		
	8.5	31-12554		

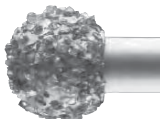
* Requires bur guard










All Medtronic ENT burs are provided sterile. Some may be reused per product instructions. Unlike more durable carbide and diamond burs, Medtronic ENT recommends that stainless steel burs be limited to one or two uses. To ensure maximum safety and bur efficiency, inspect, clean and resterilize burs between each case per product instructions.

OTOLOGIC BURS

Round Coarse Diamond Cutting

- 1 per box
- Use at speeds up to 80,000 rpm

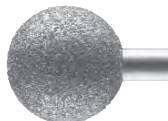












	Bur Diameter (mm)	Bur Type	Part Number	Bur Length
	1	Standard	31-111056	57mm
		Long*	31-111071	72mm
		X-Long*	31-111075	76mm
	1.5	Standard	31-111555	57mm
		Long*	31-111570	72mm
		X-Long*	31-111575	77mm
	2	Standard	31-112055	57mm
		Long*	31-112070	72mm
		X-Long*	31-112075	77mm
	2.5	Standard	31-112554	57mm
		Long*	31-112569	72mm
		X-Long*	31-112575	78mm
	3	Standard	31-113054	57mm
		Long*	31-113069	72mm
		X-Long*	31-113075	78mm
	3.5	Standard	31-113554	57mm
		Long*	31-113568	72mm
	4	Standard	31-114053	57mm
		Medium	31-114065	69mm
		Long*	31-114068	72mm
	5	Standard	31-115051	56mm
		Medium	31-115059	64mm
		Long*	31-115066	71mm
	6	Standard	31-116050	56mm
		Medium	31-116058	64mm
		Long*	31-116065	71mm

*Requires bur guard

Round Fine Diamond Cutting

- 1 per box
- Use at speeds up to 80,000 rpm



	Bur Diameter (mm)	Bur Type	Part Number	Bur Length
	0.5	Standard	31-130556	57mm
		Long*	31-130571	72mm
		X-Long*	31-100575	76mm
	1	Standard	31-131056	57mm
		Long*	31-131071	72mm
		X-Long*	31-101075	76mm
	1.5	Standard	31-131555	57mm
		Long*	31-131570	72mm
		X-Long*	31-101575	77mm
	2	Standard	31-132055	57mm
		Long*	31-132070	72mm
		X-Long*	31-102075	77mm
	2.5	Standard	31-132554	57mm
		Long*	31-132569	72mm
		X-Long*	31-102575	78mm
	3	Standard	31-133054	57mm
		Long*	31-133069	72mm
		X-Long*	31-103075	78mm
	3.5	Standard	31-133553	57mm
		Long*	31-133568	72mm
	4	Standard	31-134053	57mm
		Medium	31-134065	69mm
		Long*	31-134068	72mm
	5	Standard	31-135051	56mm
		Medium	31-135059	64mm
		Long*	31-135066	71mm
	6	Standard	31-136050	56mm
		Medium	31-136058	64mm
		Long*	31-136065	71mm







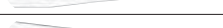









All Medtronic ENT burs are provided sterile. Some may be reused per product instructions. Unlike more durable carbide and diamond burs, Medtronic ENT recommends that stainless steel burs be limited to one or two uses. To ensure maximum safety and bur efficiency, inspect, clean and resterilize burs between each case per product instructions.

OTOLOGIC BURS

Skeeter® Oto-Flex Burs

- 1 per box
- Use at speeds up to 12,000 rpm



Oto-Flex Carbide Burs	Bur Diameter (mm)	Part Number	Color
	0.5	31-55635	Violet
	0.6	31-55636	Blue
	0.7	31-55637	Green
	0.8	31-55638	Yellow
	1.0	31-55631	Orange
	1.4	31-55634	Gray
	1.8	31-55639	Brown
	2.3	31-55632	Red
Oto-Flex Crura Saw			
	0.75	31-55627	Black
Oto-Flex Diamond Burs			
	0.6	31-55646	Blue/white
	0.7	31-55647	Green/white
	0.8	31-55648	Yellow/white
	1.0	31-55641	Orange/white
	1.4	31-55643	Gray/white
	1.8	31-55645	Brown/white
	2.3	31-55642	Red/white






Skeeter Oto-Flex Burs are malleable burs designed for use exclusively with the Skeeter Ultra-Lite Oto-Tool Handpiece. This system is designed for ultra-delicate otologic procedures, especially ossicular chain reconstruction.

OTOLARYNGOLOGY DRILLS AND BURS

Skeeter® Oto-Flex Burs

- 1 per box
- Use at speeds up to 12,000 rpm



Oto-Flex Diamond Knife	Bur Diameter (mm)	Part Number	Color
	2.3	31-55621	Red/white
Oto-Flex Drill			
	0.6	31-55626	Black
Oto-Flex Perforator			
	0.35	31-55623	Black
	0.5	31-55625	Black
Oto-Flex Trepine			
	0.8	31-55628	Black

Skeeter Oto-Flex Burs are malleable burs designed for use exclusively with the Skeeter Ultra-Lite Oto-Tool Handpiece. This system is designed for ultra-delicate otologic procedures, especially ossicular chain reconstruction.

*Powered Surgical Equipment
and Accessories*



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Endoscopes and Lens Cleaning Systems



Endoscopes

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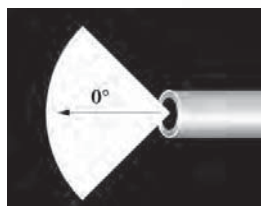
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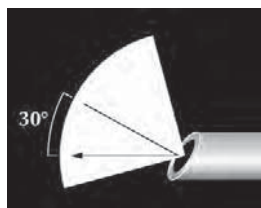


Endoscopes and Lens Cleaning Systems



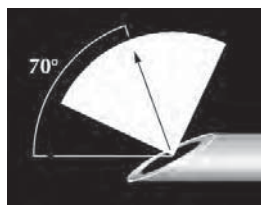
Sharpsite® Ac Endoscopes

- Innovative objective lens attachment technique and premium-grade epoxy technology make these endoscopes autoclavable (Ac means "autoclavable")
- A wide field of view offers the perfect solution for visualization in sinus surgery
- Built-in wide angle field of view increases the utility of 0°, 30° and 45° endoscopes, while reducing the need for a 70° scope
- Flash autoclaving produces a sterile scope and provides an alternative to hazardous soak solutions while helping to improve overall O.R. efficiency
- Available in a variety of sizes
- Color-coded for easy identification



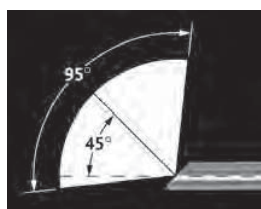
Sharpsite Ac Endoscope, 2.7mm

Product	Dia	L	DOV	FOV	Color	Qty
18-80160	2.7	187.5	0°	97°	Green	1 ea
18-80161	2.7	187.5	30°	87°	Red	1 ea



Sharpsite Ac Endoscope, 4mm

Product	Dia	L	DOV	FOV	Color	Qty
18-80152	4	175	0°	102°	Green	1 ea
18-80153	4	175	30°	100°	Red	1 ea
18-80154	4	175	70°	102°	Yellow	1 ea
18-80155	4	175	45°	95°	Black	1 ea



Sharpsite Ac Endoscope, 5mm

Product	Dia	L	DOV	FOV	Color	Qty
18-80150	5	175	0°	100°	Green	1 ea
18-80151	5	175	30°	100°	Red	1 ea

Sharpsite Ac Endoscope Sterilization Tray (not shown)

- Autoclavable
- Unique bracket design accommodates 4 endoscopes ranging in size from 2.7mm to 5mm

Product	Qty
18-81000 Sharpsite Ac Tray	1 ea



Daniel Endoscope Sheath

- Shields endoscope tip from surrounding tissues during endoscopic browlift
- Port for both irrigation and suction

Product	Qty
18-86100 Daniel Endoscope Sheath, 4mm	1 ea

Dia = Diameter L = Length DOV = Direction of View FOV = Field of View
All measurements in millimeters

Endoscopes and Lens Cleaning Systems



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ENDOSCOPES

Aston-Daniel Endoscope Sheath

- Angled tip to increase elevation of surrounding tissue

Product	Qty
18-86300 Aston-Daniel Endoscope Sheath, 4mm	1 ea
18-86400 Aston-Daniel Endoscope Sheath, 5mm	1 ea



Endoscope Protection Sleeve

- Helps protect endoscopes during storage and sterilization

Product	Qty
18-80100 Endoscope Protection Sleeve	1/box

Sharpsite® Flexible ENT Scope

- 125° "up and down" angulation
- User-friendly design includes an internal strain relief
- 25mm length of tip angulation
- Wide angle field of view
- Fiberoptic integrated illumination; detachable, protected light guide, L=2,300mm
- Accessories included: ETO valve, pressure tester, instruction manual, carrying case

Product	Dia	L	DOF	DOV	FOV	Qty
18-80500	3.8mm	300mm	3mm to infinite	0°	wide angle	1 ea



ENDO-SCRUB® 2 LENS CLEANING SYSTEM

Endo-Scrub® 2 Lens Cleaning System

- Clears the lens while the endoscope remains in position
- Software-controlled system automatically retracts saline droplets to eliminate drips
- Sheaths available in sizes to fit most endoscopes
- Can be powered by XPS® 2000 and XPS® 3000 consoles

Product	Qty
19-91005 Endo-Scrub 2 Pump Only	1 ea
18-52000 Endo-Scrub 2 Footswitch	1 ea
19-91015 Endo-Scrub Fingerswitch	1 ea

Endo-Scrub 2 Power Cord Options

Product	Qty
19-10019 Endo-Scrub 2 to XPS 2000 Console and Irrigator Y Cable	1 ea
18-95505 Endo-Scrub 2 to XPS 2000 and XPS 3000 Console Cable, 2 feet	1 ea
18-95506 Endo-Scrub 2 to XPS 2000 Console Cable, 8 feet	1 ea
19-91021 North America 110 VAC Power Cord	1 ea
19-91022 UK 240 VAC Power Cord	1 ea
19-91023 Continental Europe 230 VAC Power Cord	1 ea
19-91024 International 115/230 VAC Power Supply	1 ea



Dia = Diameter L = Length DOF = Depth of focus DOV = Direction of View FOV = Field of View

ENDO-SCRUB[®] 2 LENS CLEANING SYSTEM



Endo-Scrub 2 Sheaths

Product			Qty
Endo-Scrub 2 Sheaths, 2.7mm			
19-12023	0°	Medtronic ENT SharpSite Ac	5/box
19-12024	0°	Smith-Nephew ENT	5/box
19-12027	30°	Medtronic ENT SharpSite Ac	5/box
19-12028	30°	Smith-Nephew ENT	5/box
Endo-Scrub 2 Sheaths, 4mm			
19-12000	0°	Karl Storz, Linvatec, Medtronic ENT SharpSite Ac	5/box
19-12002	0°	Storz, Medtronic ENT SharpSite	5/box
19-12004	0°	Smith-Nephew ENT	5/box
19-12008	0°	Richard Wolf	5/box
19-12032	0°	Olympus (ref# A7594A)	5/box
19-12033	0°	Olympus (ref# A70940A)	5/box
19-12018	25°	Richard Wolf (ref# 8475.42)	5/box
19-12019	25°	Richard Wolf (ref# 8885.433,8880.433)	5/box
19-12010	30°	Karl Storz, Linvatec, Medtronic ENT SharpSite Ac	5/box
19-12012	30°	Storz, Medtronic ENT SharpSite	5/box
19-12014	30°	Smith-Nephew ENT	5/box
19-12031	30°	Olympus	5/box
19-12013	45°	Karl Storz	5/box
19-12015	45°	Medtronic ENT SharpSite Ac	5/box
19-12020	70°	Karl Storz, Linvatec, Medtronic ENT SharpSite Ac	5/box
19-12030		Endo-Scrub 2 Tubing Set	5/box

Note: All 0° sheaths are packaged with tubing. Tubing may be purchased separately if a 0° sheath is not being used.

ENDO-SCRUB[®] LENS CLEANING SYSTEM

Endo-Scrub Sheaths

- Disposable sheaths for use with the Endo-Scrub Lens Cleaning System

Product	Dia	L	DOV		Qty
18-50175	4	140	0°	Richards	5/box
18-50275	4	140	30°	Richards	5/box
18-50100	4	174	0°	Karl Storz/Medtronic ENT	5/box
18-50150	2.7	185	0°	Karl Storz/Medtronic ENT	5/box
18-50200	4	174	30°	Karl Storz/Medtronic ENT	5/box
18-50250	2.7	185	30°	Karl Storz/Medtronic ENT	5/box
18-50500	4	175	70°	Karl Storz/Medtronic ENT	5/box
18-50300	4	170	25°	Richard Wolf	5/box

Endoscopes and Lens Cleaning Systems



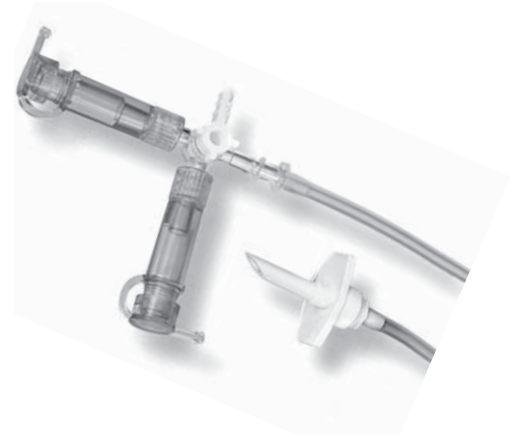
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ENDO-SCRUB® LENS CLEANING SYSTEM

Endo-Scrub System Dual Adapter

- Allows for intermittent use of two Endo-Scrub sheaths with one Endo-Scrub Lens Cleaning System

Product	Qty
18-50010 Endo-Scrub Dual Adapter	5/bx



ANTI-FOG PRODUCTS

E.L.V.I.S.® Anti-Fog Kit

- Endoscopic Laparoscopic Visual Improvement Sponge Kit
- Prevents fog and cleans lenses
- Alcohol-free
- Easy-to-use, non-abrasive
- Sterile
- Kit includes: 6cc of Anti-Fog Solution and One 2"x2" (5cmx5cm) Wipe with adhesive back

Product	Qty
400751 Anti-Fog Kit	10/box



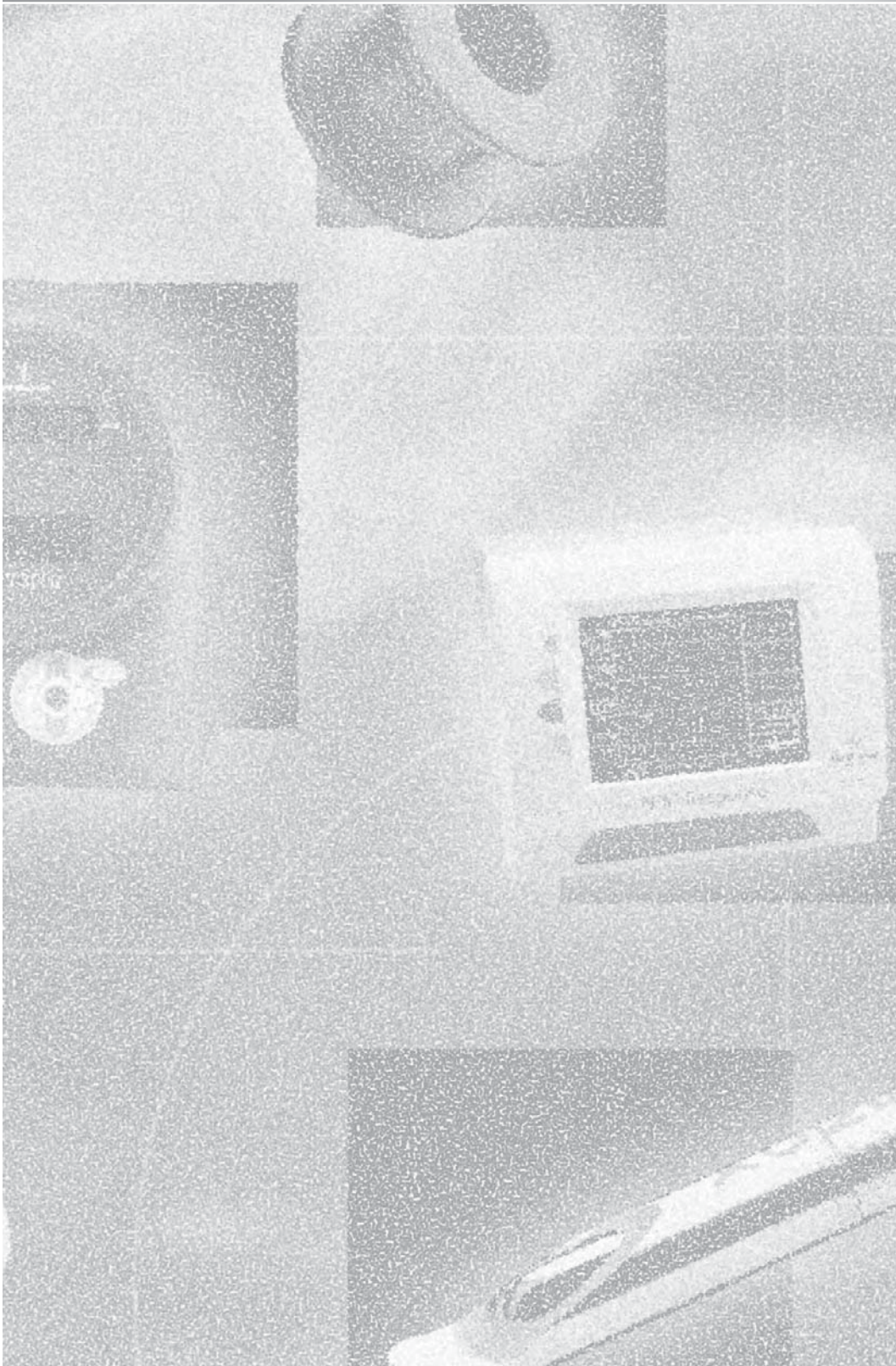
E.L.V.I.S. Endoscopic Anti-Fog Sponge

- Endoscopic Laparoscopic Visual Improvement Sponge
- Alcohol-free
- Soft, fiber-free, non-abrasive composition
- Easy-to-use
- Sterile

Product	Qty
400750 Anti-Fog Sponge	10/box



Nerve Monitoring Equipment



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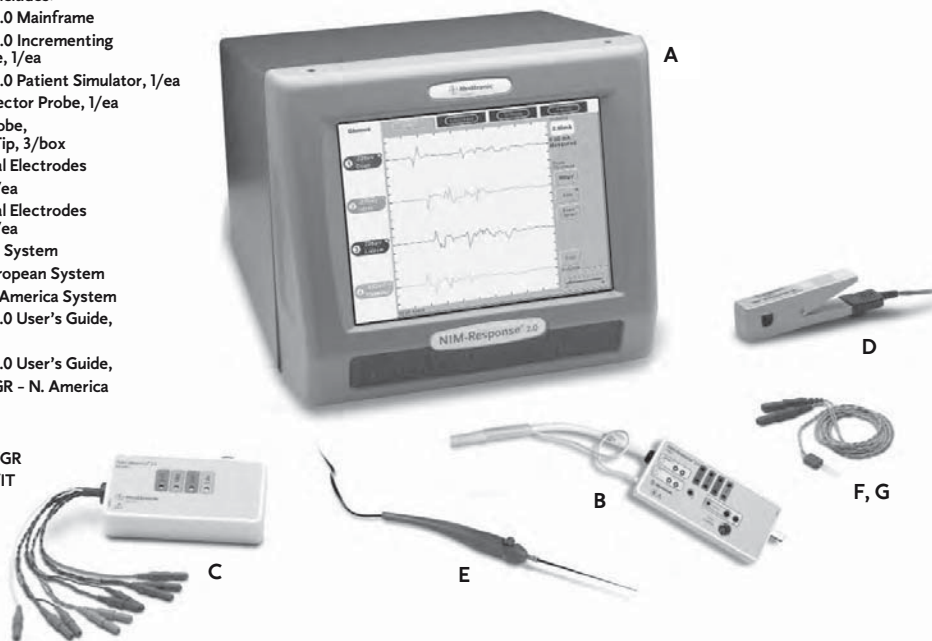
NERVE MONITORING SYSTEMS

The NIM-Response® 2.0 System includes:

- A. 82-52001IP NIM-Response 2.0 Mainframe
- B. 82-52800 NIM-Response 2.0 Incrementing Patient Interface, 1/ea
- C. 82-52600 NIM-Response 2.0 Patient Simulator, 1/ea
- D. 82-20300 NIM Muting Detector Probe, 1/ea
- E. 82-25825 Incrementing Probe, Prass Standard Tip, 3/box
- F. 82-27410 Paired Subdermal Electrodes 2-channel set, 1/ea
- G. 82-27411 Paired Subdermal Electrodes 4-channel set, 1/ea
- 18-95821 Power Cord - UK System
- 18-95822 Power Cord - European System
- 18-97821 Power Cord - N. America System
- 82-50651 NIM-Response 2.0 User's Guide, EN - UK
- 82-50651A NIM-Response 2.0 User's Guide, EN/SP/FR/PO/GR - N. America

European System includes choice of one User's Guide:

- 82-50652A EN/SP/FR/PO/GR
- 82-50652B EN/FR/DE/DU/IT
- 82-50652C EN/SW/DA/FI



Nerve Monitoring Systems

NIM-Response® 2.0 System offers

Security and patient safety

- Four-channel monitoring
- Increased sensitivity with reduced interference
- Improved electrode-checking features

Convenience

- Improved, user-friendly interface
- Incrementing probe to adjust stimulus level and print or save
- Save and load custom settings with Quick Setup

Quick case logging

- Log EMG activity throughout a procedure for your records
- Documentation for supporting reimbursement claims
- Printable case log report for patient records

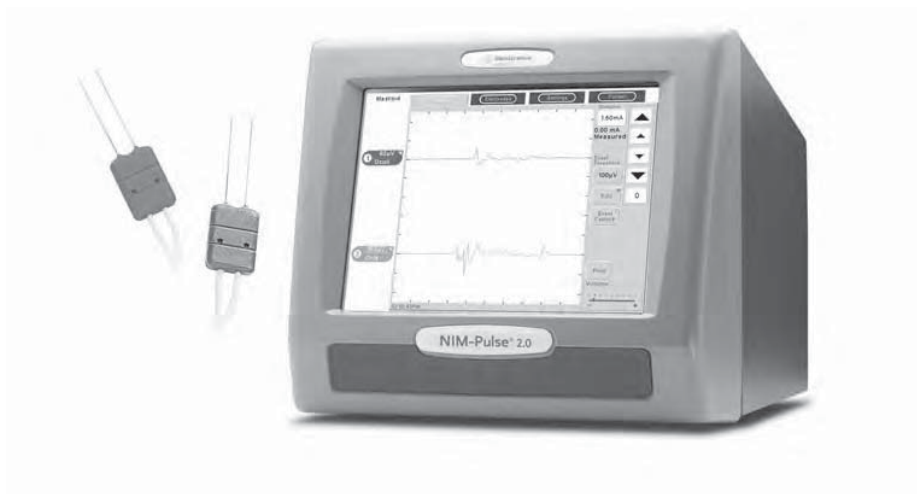
Service and experience

- More than 18 years of experience in ENT nerve monitoring
- Largest dedicated ENT sales force
- Thorough training upon installation
- NIM-Response Helpline for technical questions

NIM-Response® 2.0 System

Product		Qty
82-52053IP	NIM-Response 2.0 System, UK	1 ea
82-52054IP	NIM-Response 2.0 System, Cont. Europe	1 ea
82-52055IP	NIM-Response 2.0 System, N. America	1 ea
82-52001IP	NIM-Response 2.0 Mainframe, 120V	1 ea

NERVE INTEGRITY MONITORING SYSTEMS



Each system includes:

8252201	NIM-Pulse 2.0 Mainframe
8252210	NIM-Pulse 2.0 Patient Interface
8252211	NIM-Pulse 2.0 Patient Simulator
8220300	NIM Muting Detector Probe
8227410	Paired Subdermal Electrodes 2-channel set
8225101	Prass Standard Flush-Tip Stimulating Probes

Includes one choice of Power Cord:

1897821	Power Cord, 6 m, 115V - North America
1895821	Power Cord - UK
1895822	Power Cord - Continental Europe

Includes one choice of User's Guide:

8250652A	EN/SP/FR/PO/GR
8250652B	EN/FR/DE/DU/IT
8250652C	EN/SW/DA/FI

NIM-Pulse® 2.0 System offers:

Improved ease-of-use

- User-friendly color touchscreen and menus
- Touchscreen stylus allows quick access to NIM™ functions from the sterile field
- Improved, interactive troubleshooting
- Faster, easier Quick Setup
- Improved electrode checking
- Two-channel monitoring

Added safety and convenience

- Quick Case Logging documents patient's EMG activity
- More sensitive to lower-level EMG activity
- Less noise and fewer false positives
- Improved emissions for minimal impact on ABR monitoring

NIM-Pulse® 2.0 System

Product	Qty
82-52056 NIM-Pulse 2.0 System, UK	1 ea
82-52057 NIM-Pulse 2.0 System, Cont. Europe	1 ea
82-52058 NIM-Pulse 2.0 System, N. America	1 ea
82-52201 NIM-Pulse 2.0 Mainframe	1 ea

NERVE INTEGRITY MONITORING SYSTEMS



Each system includes:

- 825240IIP NIM-Neuro 2.0 Mainframe, 1/ea
- 825241I NIM-Neuro 2.0 Patient Stimulator, 1/ea
- 8252900 NIM-Neuro 2.0 Incrementing Patient Interface, 1/ea
- 8220300 NIM Muting Probe, 1/ea
- 8225825 Incrementing Probe, Prass Standard Tip, 3/box
- 8227410 Paired Subdermal Electrode, 2-channel, 1/ea
- 8227411 Paired Subdermal Electrode, 4-channel, 1/ea
- 8227412 Electrode Set, Paired Subdermal, 8-channel, 1/ea
- 8227421 Electrode Set, Twisted Pair, 4-channel, 1/ea
- 9680149XOM Touchscreen Stylus, 5/box

Includes choice of one User's Guide:

- 1895821 Power Cord, UK, 1/ea
- 1897821 Power Cord, 6m, 115V, North America, 1/ea
- 1895822 Power Cord, Continental Europe, 1/ea

Includes choice of one Power Cord:

- 8250650 Manual, NIM-Neuro 2.0, EN, 1/ea
- 8250650A Manual, NIM-Neuro 2.0, EN/ES/FR/PT/EL, 1/ea
- 8250650B Manual, NIM-Neuro 2.0, EN/FR/DE/NL/IT, 1/ea
- 8250650C Manual, NIM-Neuro 2.0, EN/SV/DA/FI, 1/ea

Nerve Monitoring Systems

NIM-Neuro® 2.0 System offers

Added versatility

- Expanded stimulation range
- Eight-channel monitoring

Improved EMG signal quality

- More sensitive to lower-level EMG activity with improved signal-to-noise ratio
- Reduced susceptibility to interference
- Improved emissions for minimal impact on ABR monitoring

Patient safety

- Increased sensitivity with reduced interference
- Improved electrode-checking features

Convenience

- Document EMG activity throughout a procedure for patient records, research, education, or to support reimbursement claims
- Improved, user-friendly interface
- Incrementing probe to adjust stimulus level and print or save
- Reusable touchscreen stylus for quick access to NIM functions
- Easily save and load custom settings using Quick Setup

Service and experience

- More than 18 years of experience in nerve monitoring
- Thorough training upon installation
- NIM Helpline for technical questions

NIM-Neuro® 2.0 System

Product		Qty
82-52050	NIM-Neuro 2.0 System, UK	1 ea
82-52051	NIM-Neuro 2.0 System, Cont. Europe	1 ea
82-52052	NIM-Neuro 2.0 System, N. America	1 ea

NERVE INTEGRITY MONITORING SYSTEMS

The NIM-Response® System with Printer includes:

- A. NIM-Response Mainframe (82-50001)
- B. Patient Interface (82-50200)
- C. Muting Detector Probe (82-20300)
- D. Patient Simulator (82-50600)
- E. Box Standard Prass Flush-Tip Monopolar Stimulator Probes (82-25101)
- F. Paired Subdermal Needle Electrodes, 5 sets (82-27410)
- G. 2 User Guides
- H. In-Service Video
- I. Power Cord, 12 foot (82-50004)
- J. Printer Package (82-52111)



NIM-Response System with Printer

- NIM-Response System (82-50000)
- HP Printer Package for documentation and training (82-52111)

Product	Qty
82-50002 NIM-Response System with Printer	1 ea

NIM-Response System with Stainless Steel Stand

- NIM-Response System (82-50000)
- Stainless steel cart (82-40200)

Product	Qty
82-50005 NIM-Response System with Stainless Steel Stand	1 ea

NIM-RESPONSE® 2.0 ACCESSORIES

Patient Interface for NIM-Response 2.0

- Electrode interface with 15ft connecting cable

Product	Qty
82-52200 NIM-Response 2.0 Patient Interface	1 ea



Patient Simulator for NIM-Response 2.0

- Simulates connection to patient and nerve stimulation
- Useful for training and Bio-med system testing

Product	Qty
82-52600 NIM-Response 2.0 Patient Simulator	1 ea



Incrementing Patient Interface for NIM-Response 2.0

Product	Qty
82-52800 NIM-Response 2.0 Incrementing Patient Interface	1 ea



NIM-PULSE® 2.0 ACCESSORIES



Patient Interface for NIM-Pulse 2.0

- Electrode interface with 15ft connecting cable

Product	Qty
82-52210 NIM-Pulse 2.0 Patient Interface	1 ea



Patient Simulator for NIM-Pulse 2.0

- Simulates connection to patient and nerve stimulation
- Useful for training and Bio-med system testing

Product	Qty
82-52211 NIM-Pulse 2.0 Patient Simulator	1 ea

NIM-NEURO® 2.0 ACCESSORIES



Patient Interface for NIM-Neuro 2.0

- Electrode interface with 15ft connecting cable

Product	Qty
82-52410 NIM-Neuro 2.0 Patient Interface	1 ea



Patient Simulator for NIM-Neuro 2.0

- Simulates connection to patient and nerve stimulation
- Useful for training and Bio-med system testing

Product	Qty
82-52411 NIM-Neuro 2.0 Patient Simulator	1 ea



Incrementing Patient Interface for NIM-Neuro 2.0

Product	Qty
82-52900 NIM-Neuro 2.0 Incrementing Patient Interface	1 ea

NIM-PULSE® AND/OR NIM-RESPONSE® ACCESSORIES

Patient Interface for NIM-Pulse® and/or NIM-Response®

- Electrode interface with 15ft connecting cable

Product	Qty
82-50210 NIM-Pulse Patient Interface	1 ea
82-50200 NIM-Response Patient Interface	1 ea
82-50615 Patient Interface Fuse Kit	1 ea



Patient Simulator for NIM-Pulse® and/or NIM-Response®

- Simulates connection to patient and nerve stimulation
- Useful for training and Bio-med system testing

Product	Qty
82-50211 NIM-Pulse Patient Simulator	1 ea
82-50600 NIM-Response Patient Simulator	1 ea



Muting Probe for NIM-Pulse® and/or NIM-Response®

- Automatically detects and simultaneously mutes electro-surgical interference

Product	Qty
82-20300 Muting Probe	1 ea



Power Cord for NIM-Pulse® and/or NIM-Response®

- Medical grade power cord, 12 foot

Product	Qty
82-50004 Power Cord	1 ea



Printer Package for NIM-Pulse® and/or NIM-Response®

- For documentation and teaching
- Prints monitoring screens of the NIM-Response
- HP5650 Printer, USB printer cable, standard printer cable printer cartridges, and power cord included
- Uses 8.5" x 11" paper

Product	Qty
82-52111 Printer Package	1 ea



NIM-PULSE[®] AND/OR NIM-RESPONSE[®] ACCESSORIES



Storage/Carrying Case for NIM-Pulse[®] and/or NIM-Response[®]

- Telescoping handle and easy rolling wheels

Product	Qty
82-50020 Storage/Carrying Case	1 ea



NIM[™] Stand/Storage Cart

Product	Qty
82-40200 Stainless Steel Cart	1 ea

Console Fuse Kit

Product	Qty
82-50616 Console Fuse Kit, 4 Amp	1 ea

Printer Supplies

Product	Qty
82-52111 NIM [™] Printer System Kit	1 ea

MONITORING MANUALS AND GUIDES

NIM-Response® Manuals and User Guides

Product		Qty
82-50003	NIM-Response User's Manual	1 ea
82-50006	NIM-Response Repair Manual EN/FR	1 ea

NIM-Pulse Manuals and User Guides

Product		Qty
82-50212	NIM-Pulse User Guide	1 ea
82-50213	NIM-Pulse Repair Manual	1 ea

NIM-Neuro 2.0 Manuals

Product		Qty
82-50650	NIM-Neuro 2.0 Manual, English	1 ea
82-50650A	NIM-Neuro 2.0 Manual, EN/SP/FR/PO/GR	1 ea
82-50650B	NIM-Neuro 2.0 Manual, EN/FR/DE/DU/IT	1 ea
82-50650C	NIM-Neuro 2.0 Manual, EN/SW/DA/FI	1 ea

NIM-Response 2.0 Manuals and User Guides

Product		Qty
82-50651	NIM-Response 2.0 Manual, English	1 ea
82-50651A	NIM-Response 2.0 Manual, EN/SP/FR/PO/GR	1 ea
82-50651B	NIM-Response 2.0 Manual, EN/FR/DE/DU/IT	1 ea
82-50651C	NIM-Response 2.0 Manual, EN/SW/DA/FI	1 ea

NIM-Pulse 2.0 Manuals

Product		Qty
82-50652	NIM-Pulse 2.0 Manual, English	1 ea
82-50652A	NIM-Pulse 2.0 Manual, EN/SP/FR/PO/GR	1 ea
82-50652B	NIM-Pulse 2.0 Manual, EN/FR/DE/DU/IT	1 ea
82-50652C	NIM-Pulse 2.0 Manual, EN/SW/DA/FI	1 ea

ELECTRODES: RECORDING



NIM Contact™ EMG Endotracheal Tube

- Single-use reinforced EMG tube
- Monitors vocal cord and recurrent laryngeal nerve EMG activity during surgery
- Fully rotatable due to signal channel and equidistant surface electrode design
- Recording electrode leads are twisted pair
- Packaged sterile with one green and one white subdermal needle

Product	ID	OD	Qty	Product	ID	OD	Qty
82-29505	5	7.8	1 ea	82-29507	7	10.5	1 ea
82-29506	6	9	1 ea	82-29508	8	11.5	1 ea

All measurements in millimeters. ID = Inner Diameter, OD = Outer Diameter



NIM EMG Reinforced Endotracheal Tube

- Single-use reinforced EMG tube
- Monitors vocal cord and recurrent laryngeal nerve EMG activity during surgery
- Two channels of surface electrodes
- Recording electrode leads are twisted pair
- Packaged sterile with one green and one white subdermal needle

Product	ID	OD	Qty	Product	ID	OD	Qty
82-29306	6	8.8	1 ea	82-29308	8	11.3	1 ea
82-29307	7	10.2	1 ea				

All measurements in millimeters. ID = Inner Diameter, OD = Outer Diameter



NIM Flex™ EMG Endotracheal Tube

- Single-use reinforced EMG tube
- Monitors vocal cord and recurrent laryngeal nerve EMG activity during surgery
- Updated, dual channel design allows the tube to maintain contact with the vocal cords, even upon rotation
- Recording electrode leads are twisted pair
- Packaged sterile with one green and one white subdermal needle

Product	Description	Qty
82-29960	6mm EMG Flex™ Tube	5/pk
82-29965	6.5mm EMG Flex™ Tube	5/pk
82-29970	7mm EMG Flex™ Tube	5/pk
82-29975	7.5mm EMG Flex™ Tube	5/pk
82-29980	8mm EMG Flex™ Tube	5/pk
82-29985	8.5mm EMG Flex™ Tube	5/pk

EMG Paired Hookwire Electrodes

- Hypodermic needle length, 25mm
- Wire length, 1m
- Connects directly to Patient Interface
- Individual pouches, sterile, single use
- Two pairs of hookwire electrodes are packaged with one green and one white subdermal electrode

Product	Qty
82-26326	1 set/box

ELECTRODES: RECORDING

EMG Single Hookwire Electrodes

- Hypodermic needle length, 25mm
- Wire length, 1m
- Direct connectors to Patient Interface
- Individual pouches, sterile, single use

Product	Qty
82-26626	6/box

EMG Lead

Product	Qty
82-27141 BP, 5 EA: BK, GY, VI, OR, BR PP	25/box

Twist Pair Electrode Set

Product	Qty
82-27421 22MM, 4CH	1 ea
82-27422 22MM, 8CH	1 ea

Paired Subdermal Electrodes

- Sharp, lancet-tipped paired subdermal electrodes designed for gentle skin penetration
- Twisted wires provide noise shielding
- Color-coded for easy patient setup
- 2-channel, 4-channel, and 8-channel monitoring sets packaged with one green and one white subdermal electrode
- Sterile, single use

Product	Qty	Product	Qty
82-27410 2-channel	1 set/box	82-27465 Mix 1	25/box
82-27411 4-channel	1 set/box	Red, Blue, Orange, Violet, Gray	
82-27412 8-channel	1 set/box	82-27466 Mix 2	25/box
		Yellow, Green, Tan, Black, White	

Subdermal Needle Electrodes

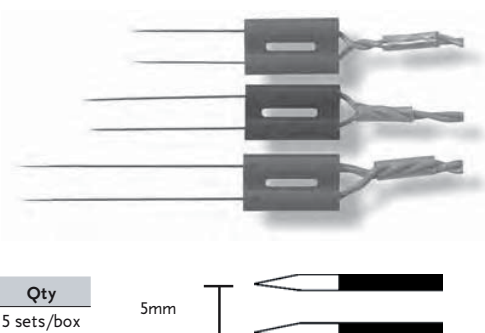
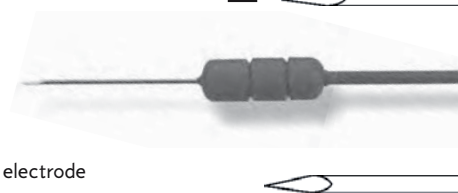
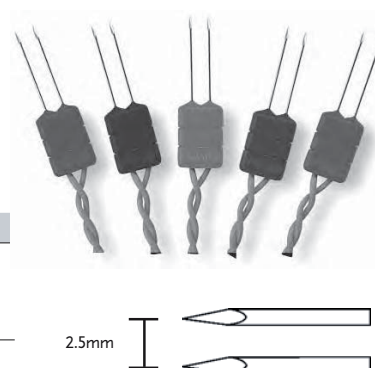
- Sharp, lancet-tipped paired electrodes specially designed for gentle skin penetration
- 12mm long stainless steel needle
- Color-coded for easy patient set up
- 2-channel monitoring set packaged with one green and one white subdermal electrode
- Sterile, single use

Product	Qty
82-27103	6/box

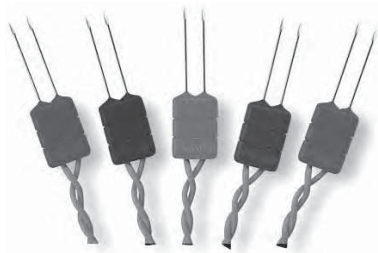
Press Paired Electrodes

- Muscle-specific electrodes
- Coated to within 5mm of tip
- Longer needle length options for deeper access to targeted muscle
- Insulated to within 5mm of tip
- 1-meter twisted pair of cables provides noise shielding
- Packaged with one green and one white subdermal electrode
- Sterile, single use

Product	Needles	Qty	Product	Needles	Qty
82-27304	18mm	5 sets/box	82-27301	25mm	5 sets/box
82-27307	38mm	5 sets/box			



ELECTRODES: RECORDING



Prass Paired Electrodes with Small Hub

- Muscle-specific electrodes
- Coated to within 5mm of tip
- Sharp, lancet-tipped paired electrodes specially designed for gentle skin penetration
- Designed with ergonomic hub that lays flat
- Sterile, single use

Product		Qty	Product	Qty
82-27414	2-channel	12.5mm 5 sets/box	82-27415	4-channel 12.5mm 5 sets/box
82-27418	2-channel	18mm 5 sets/box	82-27419	4-channel 18mm 5 sets/box

PROBES: MONOPOLAR STIMULATING



Incrementing Probe, Prass Standard Tip

- Unique stimulator for locating and mapping cranial nerves
- Convenient finger button allows surgeon to:
 - Easily adjust stimulus levels at the surgical site
 - Print or save record of patient's EMG activity without touching NIM™ screen
- Individual sterile packages

Product	Qty
82-25825 Probes	3/box



Standard Prass Flush-Tip Monopolar Stimulator Probe

- Unique stimulator for locating and mapping cranial nerves in the surgical field
- Probe insulated to the tip to prevent current shunting
- 0.5mm tip diameter
- Individual sterile packages

Product	Qty	Product	Qty
82-25101 Probes	5/box	82-25110 Tips Only	10/box



Ball-Tip Monopolar Stimulator Probe

- Flexible shaft and ball-tip helps ensure optimal contact with hidden neural structures
- Insulated to the tip to prevent current shunting
- Ball-tip provides atraumatic contact to larger neural structures
- Sterile probes, handles and tips available

Product	Tip	Qty	Product	Tip	Qty
82-25275	1mm	1/box	82-25277	1mm	Tips only 10/box
82-25276	2.3mm	1/box	82-25278	2.3mm	Tips only 10/box

PROBES: MONOPOLAR STIMULATING

Yingling Flex Tip Monopolar Stimulator Probe

- High flexibility allows stimulation in areas outside the surgeon's field of vision
- Fully insulated platinum-iridium wire to 0.5mm ball tip
- Packaged sterile with one green subdermal electrode

Product	Qty
82-25251 Probes	5/box

Monopolar Probe Handle, Sterile

- For use with Monopolar Probes: Slim Press (82-25105)
Standard Press (82-25110)
Yingling (82-25251)
- Sterile, single use

Product	Qty
82-25051 Probes	10/box



Nerve Monitoring Systems

PROBES: BIPOLAR STIMULATING

Press Bipolar Stimulator Probe

- Slim, flexible tip allows greater access to neural structures
- 0.5mm distance between cathode and anode tips for minimal shunting
- Insulated to flush tip with color coded stimulating cathode
- Sterile, single use

Product	Qty
82-25451 Probes	5/box

Kartush Concentric Bipolar Stimulating Probe

- 360° contact area
- Insulated to the active tip
- Polarized handle and cable
- Sterile, single use

Product	Qty
82-25351 Probes	5/box

Kartush Side-by-Side Bipolar Stimulating Probe, Single Use

- Probe tips 1.3mm apart
- For stimulating neural structures between tips
- Polarized handle and cable
- Sterile, single use

Product	Qty
82-25401 Probes	5/box



KARTUSH STIMULUS DISSECTION INSTRUMENTS

Kartush Stimulus Dissection Instrument Set

- Instruments are 6.25" (15.9cm) long
- Insulated to the dissecting surface to minimize current shunting
- Ring Dissector instruments facilitate easy debulking of encapsulated masses
- The KSD Set includes:

Curved Needle	(13-52401)
Elevator	(13-52402)
Ring Dissector, 3mm, Reg	(13-52412)
Ring Dissector, 2mm, Reg	(13-52413)
Sickle Knife	(13-52408)
90° Hook	(13-52409)
Cable, 9ft	(13-52415)
Sterilization/Storage Case	(13-52407)



Product	Qty
13-52400 KSD Instrument Set	1 set

These instruments are included in the KSD Sets and can be purchased separately

- These instruments are designed specifically for otologic applications to provide simultaneous monopolar stimulation during intraoperative microsurgical dissection
- Insulated to the dissecting surface
- Also part of the KSD Sets (13-52400)

Kartush Stimulus Dissection Curved Needle



Product	Qty
13-52401 Curved Needle	1 ea

Kartush Stimulus Dissection Elevator



Product	Qty
13-52402 Elevator	1 ea

Kartush Stimulus Dissection Ring Dissector



Product	Qty	Product	Qty
13-52413 Regular, 2mm	1 ea	13-52404 Thin, 2mm	1 ea
13-52412 Regular, 3mm	1 ea	13-52403 Thin, 3mm	1 ea

Sickle Knife



Product	Qty
13-52408 Sickle Knife, 5mm	1 ea

90° Hook



Product	Qty
13-52409 90° Hook, 1mm	1 ea

Large Crabtree (not included in the KSD Sets)



Product	Qty
13-52410 Large, 3mm	1 ea

For the Kartush Sterilization Case and the Kartush Stimulus Dissection Cable, see Stimulus Dissection Accessories.

NEUROTOLOGIC STIMULUS DISSECTION INSTRUMENTS

Neurotologic Stimulus Dissection Instrument Set

- Neurotologic intraoperative cranial nerve monitoring
- Instruments are 7.25 inches (18.4cm) long
- Fully insulated to the dissecting surface
- Monopolar stimulation and nerve monitoring during sharp dissection minimizes trauma to cranial motor nerves
- The NSD Set includes:

Right Angled Pick, Short	(13-53401)	Right Angled Pick, Long	(13-53402)
Duckbill Elevator, Medium	(13-53404)	Duckbill Elevator, Wide	(13-53405)
Curved Needle	(13-53403)	Round Knife, 3mm	(13-53406)
Round Knife, 4mm	(13-53407)	Round Knife, 5mm	(13-53408)
Raspatory, Narrow Right	(13-53409)	Raspatory, Narrow Left	(13-53410)
Raspatory, Medium Right	(13-53411)	Raspatory, Medium Left	(13-53412)
Raspatory, Wide Right	(13-53413)	Raspatory, Wide Left	(13-53414)
Cable, 9ft	(13-52415)	Sterilization Tray	(13-52396)



Product	Qty
13-53400 NSD Instrument Set	1 set

These instruments are included in the NSD Set and can be purchased separately

- These instruments are designed specifically for neurotologic intraoperative cranial nerve monitoring
- Monopolar stimulation and nerve monitoring during sharp dissection assists in minimizing trauma to cranial motor nerves
- Fully insulated to the dissecting tip
- Also part of the NSD Set (13-53400)

Neurotologic Stimulus Dissection Curved Needle

Product	Qty
13-53403 Curved Needle	1 ea



Neurotologic Stimulus Dissection Duckbill Elevator

Product	Qty	Product	Qty
13-53404 Elevator, Medium	1 ea	13-53405 Elevator, Wide	1 ea



Neurotologic Stimulus Dissection Raspatory

Product	Qty	Product	Qty
13-53409 Narrow Right	1 ea	13-53410 Narrow Left	1 ea
13-53411 Medium Right	1 ea	13-53412 Medium Left	1 ea
13-53413 Wide Right	1 ea	13-53414 Wide Left	1 ea



Neurotologic Stimulus Dissection Right Angled Pick

Product	Qty	Product	Qty
13-53402 Right Angle Pick, Long	1 ea	13-53401 Right Angle Pick, Short	1 ea



Neurotologic Stimulus Dissection Round Knife

Product	Qty	Product	Qty
13-53406 Round Knife, 3mm	1 ea	13-53408 Round Knife, 5mm	1 ea
13-53407 Round Knife, 4mm	1 ea		



For the Neurotologic Sterilization Tray and Kartush Stimulus Dissection Cable, see Stimulus Dissection Accessories.

STIMULUS DISSECTION ACCESSORIES

Kartush Stimulus Dissection Cable (not shown)

- 9 feet
- For use with both KSD and NSD Instruments
- Also a part of the Kartush Stimulus Dissection Instrument Set (13-52400), as well as the Neurotologic Stimulus Dissection Instrument Set (13-53400)

Product	Qty
13-52415 Cable	1 ea



Kartush Stimulus Dissection Sterilization/Storage Case

- For convenient storage and sterilization of Kartush Stimulus Dissection Instruments
- Also a part of the Kartush Stimulus Dissection Instrument Set (13-52400)

Product	Qty
13-52407 KSD Sterilization Case	1 set

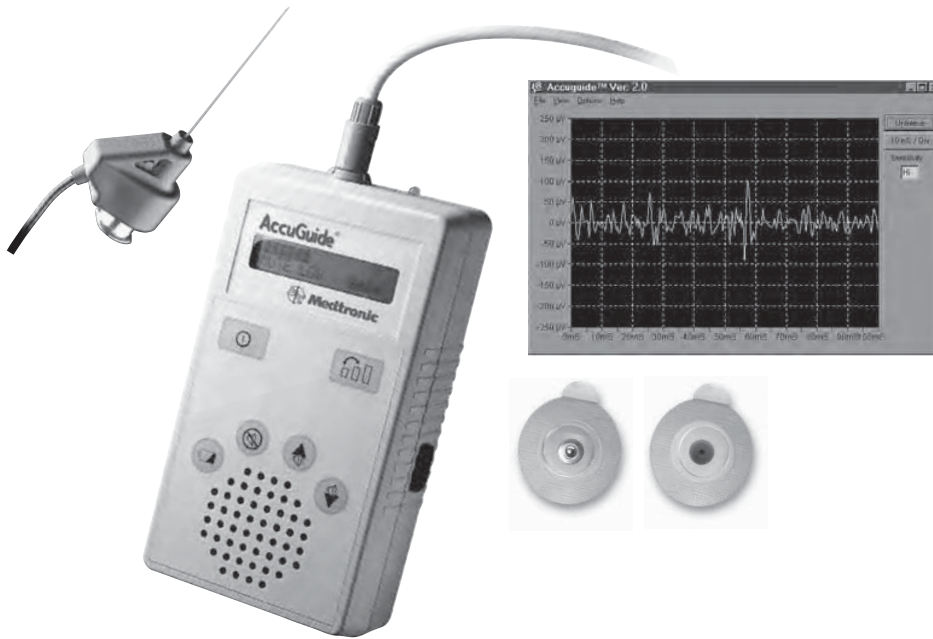


Neurotologic Stimulus Dissection Sterilization Tray

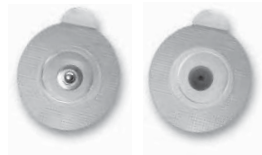
- For convenient storage and sterilization of Neurotologic Stimulus Dissection Instruments
- Also a part of the Neurotologic Stimulus Dissection Instrument Set (13-53400)

Product	Qty
13-52396 NSD Sterilization Tray	1 set

AccuGUIDE® INJECTION MONITOR



AccuGuide® Injection Monitor with PC Link includes:
 AccuGuide Injection Monitor with PC Output (82-63001)
 AccuGuide Software for Windows®
 Serial PC Cable
 AccuGuide Patient Cable (82-63003)
 AccuGuide Injection Needles, 30 gauge x 25mm, and Surface Electrodes (82-63210)
 AccuGuide Carrying Case



Nerve Monitoring Systems

AccuGuide Injection Monitor with PC Link

- Provides auditory and visual EMG information
- Lightweight monitor fits easily into a lab coat pocket
- Battery-powered to minimize unwanted line noise
- EMG can be viewed and documented through AccuGuide Software

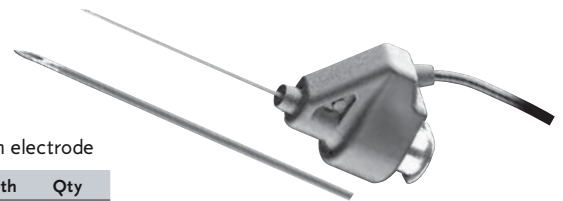
Product	Qty
82-63001 AccuGuide Injection Monitor with PC Link	1 ea



AccuGuide Injection Needles

- Coated with low friction insulation to help maximize patient comfort
- Hypodermic needle is insulated to within 0.05mm of the tip
- Electrode wire is attached for connection to the AccuGuide Patient Cable
- Sterile-packaged with two surface electrodes which feature Ag/AgCl column electrode

Product	Gauge	Length	Qty	Product	Gauge	Length	Qty
82-63210	30	1"	5 sets/box	82-63211	27	1.5"	5 sets/box



NERVE LOCATORS/STIMULATORS



Pulsatron® II Hand-Held Nerve Locator/Stimulator

- Pulsed stimulator, delivers approximately 0.7mA @ 80 pulses per second
- Uses subdermal needle as grounding (anode) electrode
- Currentflow integrity test by touching probe tip to grounding needle
- Battery-powered, single use
- Individual sterile packages

Product	Qty
82-62015 Pulsatron II Stimulator	10/box



Vari-Stim® III Hand-Held Nerve Locator/Stimulator

- Direct current stimulator
- Adjustable current settings: 0.5, 1.0, and 2mA
- Uses subdermal needle as grounding (anode) electrode
- Features "current flow" confirmation LED
- Battery powered, single use
- Individual sterile packages

Product	Qty
85-62010 Vari-Stim III Stimulator	10 /box

Ventilation Tubes and Myringotomy Accessories



Ventilation Tubes: Grommets

Armstrong Beveled Grommet	.72
Modified Armstrong Beveled Grommet	.72
Armstrong V Grommet	.72
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Baxter Beveled T-Grommets	.73
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Cohen T-Grommets	.73
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Goode T-Grommet	.74
Hubbard Airplane Tube	.74
Lindeman-Silverstein Arrow	.74
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Pope Beveled Grommets	.75
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Goode T-Tube®	.79
Modified Goode T-Tube	.79
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Per-Lee Tube	.80
Siegel T-Tubes	.80
Silverstein Permanent Aeration Tube (SPAT)	.80
T-Type Vent Tubes	.80

Ventilation Tubes: Pediatric

Pediatric Ventilation Tube	.80
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Ventilation Tubes: Semi-Permeable

Semi-Permeable Membrane Tubes	.81
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Ventilation Tubes: Shank Style

Armstrong Beveled Straight Shank	.81
Armstrong V Tube	.81
Plain Straight Shank	.81

Tympanic Membrane Patch

Kartush Tympanic Membrane (TM) Patcher	.82
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Myringotomy Accessories and Instruments

E/Z Load T-Tube Inserter and Replacement Pin	.82
Goode T-Tube® Inserter	.82
Micro Otologic Blade, Downcutting Angled	.82
Micro Otologic Blade, Razor	.83
Micro Otologic Blade, Spear	.83
Micro Otologic Blade, Spear, Angled	.83
Micro Otologic Blade, Upcutting, Angled	.83
Myringotomy Blade, Narrow	.83
Myringotomy Blade, Spear Tip	.83
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Myringotomy Knife, Spear Blade	.84
E/Z Chuck Blade Handle	.84
LiteTouch Uni-Handle	.84
Disposable Myringotomy Kit, Adult & Pediatric	.84
lonesthetizer System Components	.84

BIOMATERIALS FOR VENT TUBES

Activent® Antimicrobial Ventilation Tube _____ Black™

- Silver oxide-impregnated silicone elastomer or fluoroplastic
- Clinically shown to significantly reduce the incidence of postoperative otorrhea compared to conventional ventilation tube materials
- Same handling characteristics as silicone or fluoroplastic ventilation tubes

C-Flex® Ventilation Tube _____ Sea Green

- Advanced thermoplastic elastomer
- Surface characteristics may reduce early clogging of the tube lumen
- Available in regular durometer (C-Flex) and firm (H/C-Flex)
- Proven biocompatibility and biomechanical properties

Fluoroplastic (FLPL) _____ Green or White

- Non-stick surfaces may reduce or preclude clogging or adhesions to the tube
- Rigid material to facilitate tube insertion
- Proven biocompatibility

Microgel™ Surface-Enhanced Ventilation Tube _____ Green

- Patented modified PVP coating increases the surface energy of silicone, reducing bacterial adherence by more than 90%
- Same handling characteristics as silicone

Silicone _____ Green

- Soft, easy to manipulate
- Proven biocompatibility in otologic applications
- Silicone elastomer tubes are easily compressed to aid in insertion while retaining shape
- Some tubes available in a firmer durometer

Stainless Steel (SS) _____ Bright or Matte Finish

- Rigid for easy insertion
- Clinical history of biocompatibility in the ear

Titanium _____

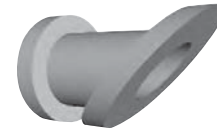
- Tytan® Titanium vent tubes have micro-polished lumens and flanges to discourage occlusion with blood, mucus or edemal fluids
- Interflange recess is finished in Vapo-Lure process to maximize retention and to resist early extrusion
- Titanium is lightweight, about one-half the weight of stainless steel

VENTILATION TUBES: GROMMETS

Armstrong Beveled Grommet

- Beveled inner flange is consistent with tympanic membrane angle for easier insertion and removal
- Lumen is parallel to ear canal for better visibility through the tube

Designed by Beverly W. Armstrong, MD, Charlotte, NC



Product	ID	IFD	Material	Qty
10-10030	1.14	3.5	Fluoroplastic, Green	5/bx
10-10031	1.14	3.5	Fluoroplastic, Green	50/bx
10-10035	1.14	3.5	Fluoroplastic with Wire	5/bx
10-30030	1.14	3.5	Activent®, Fluoroplastic	5/bx
2550-1	1.14	3.5	Microgel™ with Tab, Green	5/bx
2550-2	1.14	3.5	Microgel with Tab, Green	5pr/bx
10-26055	1.14	3.5	Activent, Silicone	5/bx
10-46055	1.14	3.5	Activent, Silicone	5pr/bx
2450-1	1.14	3.5	Firm Silicone with Tab	5/bx
2450-2	1.14	3.5	Firm Silicone with Tab	5pr/bx
10-10055	1.14	3.5	Silicone	5/bx
10-10056	1.14	3.5	Silicone	50/bx
10-56032	1.14	3.5	H/C-Flex®	5/bx
10-66032	1.14	3.5	H/C-Flex	5pr/bx
10-76032	1.14	3.5	H/C-Flex	50/bx

Modified Armstrong Beveled Grommet

- Angle of inner flange is less than standard Armstrong Grommet design
- Offset inner flange diameter provides longer retention

Designed by Beverly W. Armstrong, MD, Charlotte, NC



10-14242

Product	ID	IFD	Material	Qty
1442-1	1.14	3.5	Fluoroplastic, White	5/bx
10-10170	1.14	3.5	Fluoroplastic, Green	5/bx
10-14242	1.14	3.5	Fluoroplastic, White	5/bx
10-10171	1.14	3.5	Fluoroplastic, Green	50/bx
10-40045	1.14	3.5	Fluoroplastic, Green	5pr/bx
10-30170	1.14	3.5	Activent, Fluoroplastic	5/bx
10-81101	1.14	3.5	Microgel, Blue	5/bx
10-81102	1.14	3.5	Microgel, Blue	5pr/bx
10-81103	1.14	3.5	Microgel, Blue	50/bx

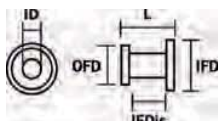
Armstrong V Grommet

- Forward-projecting tab allows easy insertion and clear visualization of incision
- Tab on outer flange facilitates easy removal

Designed by Beverly W. Armstrong, MD, Charlotte, NC



Product	ID	IFD	Material	Qty
10-56033	1.14	2.1	H/C-Flex	5/bx
10-66033	1.14	2.1	H/C-Flex	5pr/bx



All dimensions are approximate and subject to normal manufacturing variance. All measurements are listed as millimeters.

ID = Inner Diameter
 OFD = Outer Flange Diameter
 IFD = Inner Flange Diameter
 IFDis = Interflange Distance
 L = Length
 FL = Flange Length

VENTILATION TUBES: GROMMETS



Baxter Beveled Buttons

Designed by David Baxter, RN, Boston, MA

Product	ID	IFD	L	Material	Qty
1461-1	1.27	3	2.1	Fluoroplastic, White	5/bx
1461-2	1.27	3	2.1	Fluoroplastic, White	5pr/bx
1462-1	.97	2.3	1.6	Fluoroplastic, White	5/bx
1462-2	.97	2.3	1.6	Fluoroplastic, White	5pr/bx
3461-1	1.27	3	2.1	Activent Fluoroplastic	5/bx
2663-1	1.27	2.6	2.1	Activent Silicone	5/bx
2463-1	1.27	2.6	2.1	Firm Silicone	5/bx
2463-2	1.27	2.6	2.1	Firm Silicone	5pr/bx



Baxter Beveled T-Grommets

Designed by David Baxter, RN, Boston, MA

Product	ID	FL	L	Material	Qty
2465-1	1.27	9.5	3	Firm Silicone	5/bx
2465-2	1.27	9.5	3	Firm Silicone	5pr/bx



Beveled Bobbin

- Bell-shaped lateral flange may improve ventilation and view through lumen
- Lumen's straight section provides better balance on tympanic membrane for improved retention

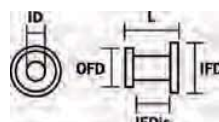
Product	ID	IFDis	Material	Qty
10-56179	1.14	—	Fluoroplastic, White	5/bx
10-66179	1.14	—	Fluoroplastic, White	5pr/bx



Cohen T-Grommets

Designed by Richard Cohen, MD, Grants Pass, OR

Product	ID	FL	Material	Qty
2470-1	1.14	9.1	Firm Silicone	5/bx
2470-2	1.14	9.1	Firm Silicone	5pr/bx
2569-1	1.14	9.1	Microgel, Silicone, Green	5/bx
2569-2	1.14	9.1	Microgel, Silicone, Green	5pr/bx



All dimensions are approximate and subject to normal manufacturing variance. All measurements are listed as millimeters.

ID = Inner Diameter
 IFD = Inner Flange Diameter
 L = Length

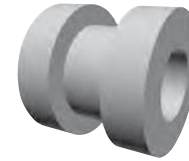
OFD = Outer Flange Diameter
 IFDis = Interflange Distance
 FL = Flange Length

VENTILATION TUBES: GROMMETS

Donaldson Type Tube

- Silicone and C-Flex versions may be compressed for easy insertion

Product	ID	IFD	IFDis	Material	Qty
10-15101	1.14	2.3	0.9	Fluoroplastic, Blue	5/bx
10-15102	1.14	2.3	0.9	Fluoroplastic, Blue	5pr/bx
10-15201	1.14	2.3	0.9	Fluoroplastic with Wire, Blue	5/bx
10-33000	1.14	2.3	0.9	Activent Fluoroplastic	5/bx
10-85501	1.14	2.3	0.9	Microgel with Tab, Blue	5/bx
10-85502	1.14	2.3	0.9	Microgel with Tab, Blue	5pr/bx
10-26020	1.14	2.3	0.9	Activent, Silicone	5/bx
10-46020	1.14	2.3	0.9	Activent, Silicone	5pr/bx
10-13021	1.14	2.3	0.9	Silicone	50/bx
2415-1	1.14	2.3	0.9	Firm Silicone	5/bx
2415-2	1.14	2.3	0.9	Firm Silicone	5pr/bx
2416-1	1.14	2.3	0.9	Firm Silicone with Tab	5/bx
2416-2	1.14	2.3	0.9	Firm Silicone with Tab	5pr/bx
10-12015	1.14	2.3	0.9	Silicone with Membrane	5/bx
10-13015	1.14	2.3	0.9	Silicone with Tab	5/bx
10-13020	1.14	2.3	0.9	Firm Silicone	5/bx
10-56010	1.14	2.3	.76	C-Flex	5/bx
10-66010	1.14	2.3	.76	C-Flex	5pr/bx



Goode T-Grommet

- Grommet design of classic Goode T-Tube® offers long-term retention with larger lumen diameter
- Design allows optimal visualization and easy manipulation

Endorsed by Richard L. Goode, MD, Palo Alto, CA

Product	ID	FL	IFDis	Material	Qty
10-16020	1.27	8.5	2.5	Silicone	5/bx
10-16025	1.27	8.5	2.5	Silicone with Membrane	5/bx
10-26011	1.27	8.5	2.5	Activent Silicone	5/bx



Hubbard Airplane Tube

- Maintains patency for short-term indications, i.e., air travel or hyperbaric chamber treatments
- Large tab facilitates easy insertion and removal

Endorsed by Ron Hubbard, MD, Memphis, TN; acknowledgement to Joseph B. Touma, MD, Huntington, WV

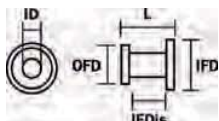
Product	ID	IFD	Material	Qty
10-56170	0.76	2	Fluoroplastic, White	5/bx



Lindeman-Silverstein Arrow

Designed by Roger C. Lindeman, MD, Seattle, WA; and Herbert Silverstein, MD, Sarasota, FL

Product	ID	IFD	L	Material	Qty
10-21000	1.14	3	4.7	Fluoroplastic	5/bx



All dimensions are approximate and subject to normal manufacturing variance. All measurements are listed as millimeters.

ID = Inner Diameter

IFD = Inner Flange Diameter

L = Length

OFD = Outer Flange Diameter

IFDis = Interflange Distance

FL = Flange Length

VENTILATION TUBES: GROMMETS



Moretz Tab Tubes

Endorsed by William H. Moretz, Jr., Augusta, GA

Product	ID	IFD	IFDis	Material	Qty
1464-1	1.27		1	Microblue® Titanium with Tab	5/bx
1464-2	1.27		1	Microblue Titanium with Tab	5pr/bx
10-56104	1.02		1	Tytan® Titanium	5/bx
10-56107	1.27		1	Tytan Titanium	5/bx
10-66107	1.27		1	Tytan Titanium	5pr/bx
10-56108	0.76		1	Tytan Titanium	5/bx
10-66108	0.76		1	Tytan Titanium	5pr/bx
10-56113	1.27		1	Tytan Titanium with Wire	5/bx
10-66113	1.27		1	Tytan Titanium with Wire	5pr/bx
10-36177	1.27		1	Activent Fluoroplastic	5/bx
10-56177	1.27		1	Fluoroplastic, White	5/bx
10-66177	1.27		1	Fluoroplastic, White	5pr/bx
10-56705	1.27	0.75		H/C-Flex	5/bx



Paparella Type Vent Tube

- Notched inner flange allows "twist-in" insertion in small incision, short- and long-term designs

Designed by Michael M. Paparella, MD, Minneapolis, MN

Product	ID	IFD	IFDis	Material	Qty
2544-1	1.02	2.5	1	Microgel with Notch and Tab, Green	5/bx
2544-2	1.02	2.5	1	Microgel with Notch and Tab, Green	5pr/bx
2544-3	1.02	2.5	1	Microgel with Notch and Tab, Green	50/bx
10-26001	1.14	2.4	1.1	Activent, Silicone with Notch and Tab	5/bx
10-46001	1.14	2.4	1.1	Activent, Silicone with Notch and Tab	5pr/bx
10-26045	1.52	4.45	1.15	Activent, Silicone with Notch and Tab	5/bx
2444-1	1.02	2.5	1	Firm Silicone with Notch and Tab	5/bx
2444-2	1.02	2.5	1	Firm Silicone with Notch and Tab	5pr/bx
2445-1	1.02	2.5	1	Firm Silicone with Notch	5/bx
2445-2	1.02	2.5	1	Firm Silicone with Notch	5pr/bx
2446-1	1.27	4.3	1	Firm Silicone with Notch and Tab	5/bx
2446-2	1.27	4.3	1	Firm Silicone with Notch and Tab	5pr/bx
10-11015	1.14	2.4	1.1	Biolite®-coated Silicone	5/bx
10-12010	1.14	4.3	0.85	Silicone with Membrane	5/bx
10-25001	1.14	2.4	1.1	Silicone with Notch and Tab	5/bx
10-25002	1.14	2.4	1.1	Silicone with Notch and Tab	50/bx
10-40006	1.14	2.4	1.1	Silicone	5pr/bx
10-40019	1.14	2.4	1.1	Silicone	50 pr/bx
10-25005	1.14	2.4	1.1	Silicone with Notch	5/bx
10-82201	1.14	2.1	1.1	Microgel with Notch and Tab, Blue	5/bx
10-82202	1.14	2.1	1.1	Microgel with Notch and Tab, Blue	5pr/bx
10-82203	1.14	2.1	1.1	Microgel with Notch and Tab, Blue	50/bx
10-25040	1.52	4.45	1.15	Silicone with Notch	5/bx
10-25045	1.52	4.45	1.15	Silicone with Notch and Tab	5/bx
10-25046	1.52	4.45	1.15	Silicone with Notch and Tab	50/bx
10-56005	1.02	2.5	1	C-Flex with Tab	5/bx
10-66005	1.02	2.5	1	C-Flex with Tab	5pr/bx



Pope Beveled Grommets

Designed by Thad Pope, MD, Crawfordsville, IN

Product	ID	IFD	IFDis	Material	Qty
10-25004	1.14	3.6	1.3	Fluoroplastic, Green	5/bx
10-25007	1.14	3.6	1.3	Fluoroplastic, Dispenser, Green	50/bx
10-40014	1.14	3.6	1.3	Fluoroplastic, Green	5pr/bx
10-25006	1.14	3.6	1.3	Fluoroplastic with Wire, Green	5/bx
10-35004	1.14	3.6	1.3	Activent Fluoroplastic	5/bx
10-56036	1.14	3.6	1.3	H/C-Flex	5/bx
10-66036	1.14	3.6	1.3	H/C-Flex	5pr/bx
10-56039	1.14	3.6	1.3	H/C-Flex with Tail	5/bx
10-66039	1.14	3.6	1.3	H/C-Flex with Tail	5pr/bx

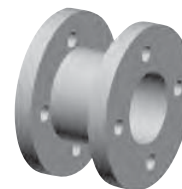
VENTILATION TUBES: GROMMETS

Reuter Bobbin

- Wider flange diameters provide longer retention than short-term designs

Designed by S. Harold Reuter, MD, Houston, TX

Product	ID	IFD	IFDis	Material	Qty
1412-1	1.02	2.7	1.1	Fluoroplastic, White, without Holes	5/box
1412-2	1.02	2.7	1.1	Fluoroplastic, White, without Holes	5pr/box
1413-1	1.14	2.7	1.1	Fluoroplastic, White, without Holes	5/box
1413-2	1.14	2.7	1.1	Fluoroplastic, White, without Holes	5pr/box
1425-1	1.14	2.7	1.1	Fluoroplastic, White, with Holes	5/box
1425-2	1.14	2.7	1.1	Fluoroplastic, White, with Holes	5pr/box
10-10101	1.14	2.6	1	Fluoroplastic, Blue, with Holes	5/box
10-10103	1.14	2.6	1	Fluoroplastic, Blue, with Holes	50/box
10-10201	1.14	2.6	1	Fluoroplastic, Blue, without Holes	5/box
10-10202	1.14	2.6	1	Fluoroplastic, Blue, without Holes	5pr/box
10-10203	1.14	2.6	1	Fluoroplastic, Blue, without Holes	50/box
10-10301	1.14	2.6	1	Fluoroplastic, Blue, with Holes and Wire	5/box
10-56162	1.02	2.6	1	Fluoroplastic, White, without Holes	5/box
10-36162	1.02	2.6	1	Activent, Fluoroplastic without Holes	5/box
10-37000	1.14	2.6	1	Activent, Fluoroplastic with Holes	5/box
10-37005	1.14	2.6	1	Activent, Fluoroplastic without Holes	5/box
14181	1.02	2.7	1	Stainless Steel, Matte Finish with Holes	5/box
14051	1.27	2.7	1	Stainless Steel with Holes	5/box
10-27040	1.14	2.6	1	Stainless Steel with Holes and Wire	5/box
1440-1	1.02	2.7	1	Stainless Steel with Holes	5/box
1440-2	1.02	2.7	1	Stainless Steel with Holes	5pr/box
10-27010	1.27	2.6	0.5	Stainless Steel with Holes	5/box
10-27015	1.14	2.6	1	Stainless Steel with Holes	5/box
1406-2	1.27	2.7	1	Stainless Steel with Holes and Wire	5pr/box
10-27016	1.14	2.6	1	Stainless Steel	50/box
10-40041	1.14	2.6	1	Stainless Steel with Holes	5pr/box
10-27070	1.27	2.6	1	Titanium without Holes	5/box
1611-1 or 2	1.02	2.7	1	Titanium with Holes and Flange	5/box
10-27060	1.14	2.6	1	Titanium with Holes	5/box
10-27065	1.27	2.6	0.5	Titanium with Holes	5/box
10-56110	1.02	2.7	1	Tytan Titanium without Holes	5/box
10-66110	1.02	2.7	1	Tytan Titanium with Holes	5pr/box
10-56112	1.14	2.7	1	Tytan Titanium without Holes	5/box
10-66112	1.14	2.7	1	Tytan Titanium without Holes	5pr/box
1622-1	1.27	2.7	1	Microblue, Tytan Titanium without Holes	5/box
1622-2	1.27	2.7	1	Microblue, Tytan Titanium without Holes	5pr/box
10-27017	1.14	2.6	1	Stainless Steel, Microblue, Matte Finish Titanium with Holes	5/box
10-27018	1.14	2.6	1	Stainless Steel, Microblue, Matte Finish Titanium with Holes	50/box
10-40004	1.14	2.6	1	Stainless Steel, Microblue, Matte Finish Titanium with Holes	5pr/box



Rube T-Grommets

Designed by William Rubenstein, MD, Houston, TX

Product	ID	FL	Material	Qty
2462-1	1.14	6.5	Firm Silicone	5/box



Shah Type Ventilation Tube

- "Shoehorn" type tab on inner flange facilitates insertion in small incision and resists extrusion
- Mini Shah (1431-1) listed under Pediatric Ventilation Tubes

Designed by N. Shah, FRCS, DLO, London, England

Product	ID	IFDis	Material	Qty
10-28030	1.14	1.58	Fluoroplastic	5/box
10-28035	1.14	1.58	Fluoroplastic with Wire	5/box
10-56174	1.14	2.2	Fluoroplastic with Wire	5/box
10-38030	1.14	1.58	Activent Fluoroplastic	5/box
1429-2	1.14	1.75	Fluoroplastic, White with Wire	5pr/box
1431-1	0.76	1	Fluoroplastic, White Mini	5/box



VENTILATION TUBES: GROMMETS



Sheehy Type Collar Button

- Classic collar button design features large inner diameter for increased ventilation and reduced chance of blockage

Designed by James L. Sheehy, MD, Los Angeles, CA

Product	ID	IFD	IFDis	Material	Qty
1414-1	1.27	3	1.52	Fluoroplastic, White	5/bx
1414-2	1.27	3	1.52	Fluoroplastic, White	5pr/bx
1416-1	1.27	3	1.52	Fluoroplastic, White with Wire	5/bx
10-13201	1.27	3	1.55	Fluoroplastic with Wire	5/bx
10-56160	1.27	3.1	1.5	Fluoroplastic, White	5/bx
10-66160	1.27	3.1	1.5	Fluoroplastic, White	5pr/bx
10-13301	1.27	3	1.55	Fluoroplastic, Blue	5/bx
10-13302	1.27	3	1.55	Fluoroplastic, Blue	5pr/bx
10-13303	1.27	3	1.55	Fluoroplastic, Blue	50/bx
10-38040	1.27	3	1.55	Activent® Fluoroplastic	5/bx
10-26145	1.27	2.9	1.3	Activent Silicone	5/bx
10-26146	1.27	2.9	1.3	Activent Silicone	50/bx
10-46145	1.27	2.9	1.3	Activent Silicone	5pr/bx
10-12050	1.27	2.8	1.32	Silicone with Membrane	5/bx
10-28145	1.27	2.9	1.3	Silicone	5/bx
10-28146	1.27	2.9	1.3	Silicone	50/bx
10-56037	1.27	3.1	1.5	H/C Flex®	5/bx
10-66037	1.27	3.1	1.5	H/C Flex	5pr/bx
10-56114	1.27	3.1	1.5	Tytan® Titanium	5/bx
10-83301	1.27	2.9	1.3	Microgel™, Blue	5/bx
10-83302	1.27	2.9	1.3	Microgel, Blue	5pr/bx
10-83303	1.27	2.9	1.3	Microgel, Blue	50/bx

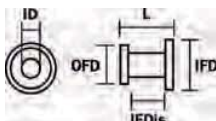


Shepard Grommet

- One of the most popular designs due to ease of insertion and short-term duration in the tympanic membrane

Designed by Marvin G. Shepard, MD, Dallas, TX

Product	ID	IFD	Material	Qty
10-16501	1.02	2.4	Fluoroplastic, Blue with Wire	5/bx
10-16502	1.02	2.4	Fluoroplastic, Blue with Wire	5pr/bx
10-16503	1.02	2.4	Fluoroplastic, Blue with Wire	50/bx
10-16301	1.02	2.4	Fluoroplastic, Blue	5/bx
10-86601	1.02	2.3	Microgel™ with Tab, Blue	5/bx
10-86602	1.02	2.3	Microgel with Tab, Blue	5pr/bx
10-28010	1.14	2.4	Fluoroplastic with Tail	5/bx
10-28011	1.14	2.4	Fluoroplastic with Tail	50/bx
10-40055	1.14	2.4	Fluoroplastic with Tail	5pr/bx
10-16201	1.14	2.4	Fluoroplastic, Blue with Wire	5/bx
10-16203	1.14	2.4	Fluoroplastic, Blue with Wire	50/bx
10-28015	1.14	2.4	Fluoroplastic with Tab	5/bx
2420-1	1.02	2.3	Firm Silicone with Tab	5/bx
2420-2	1.02	2.3	Firm Silicone with Tab	5pr/bx
10-16101	1.14	2.4	Fluoroplastic, Blue with Tab	5/bx
10-16102	1.14	2.4	Fluoroplastic, Blue with Tab	5pr/bx
10-16103	1.14	2.4	Fluoroplastic, Blue with Tab	50/bx
10-56154	1.14	2.5	Fluoroplastic, White	5/bx
10-66154	1.14	2.5	Fluoroplastic, White	5pr/bx
10-56155	1.02	2.5	Fluoroplastic, White	5/bx
10-66155	1.02	2.5	Fluoroplastic, White	5pr/bx
10-38012	1.14	2.4	Activent, Fluoroplastic with Wire	5/bx
10-26025	1.14	2.3	Activent, Silicone with Tail	5/bx
10-46025	1.14	2.3	Activent, Silicone with Tail	5pr/bx
10-28025	1.14	2.3	Silicone with Tail	5/bx
10-28026	1.14	2.3	Silicone with Tail	50/bx



All dimensions are approximate and subject to normal manufacturing variance. All measurements are listed as millimeters.

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 IFD = Inner Flange Diameter
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 L = Length
 FL = Flange Length

VENTILATION TUBES: GROMMETS

Soileau Tytan® Titanium

- Micro-polished lumen and flanges discourage occlusion with blood or mucus
- Intra-flange recess finished in Vapo-Lure to maximize retention and resist early extrusion

Endorsed by James S. Soileau, MD, Gonzales, LA

Product	ID	IFD	Material	Qty
10-56111	1.27	2.75	Tytan Titanium	5/bx
10-66111	1.27	2.75	Tytan Titanium	5pr/bx
10-76111	1.27	2.75	Tytan Titanium	50/bx



Spoon Bobbins

Product	ID	IFD	Material	Qty
10-66106	1.27	2.7	Tytan Titanium	5pr/bx
10-56109	1.02	2.7	Tytan Titanium	5/bx
10-56106	1.27	2.7	Tytan Titanium	5/bx
1400-2	1.02	2.7	Stainless Steel with Holes	5pr/bx



Touma Beveled T-Grommet

Endorsed by Joseph B. Touma, MD, Huntington, WV

Product	ID	IFD	Material	Qty
10-26014	1.27	5	Activent® Silicone with Tab	5/bx



Touma T-Type Grommet

- T-type inner flange has a flat surface to accommodate normal tympanic membrane anatomy and rounded, blunt edges for easier insertion and removal

Endorsed by Joseph B. Touma, MD, Huntington, WV

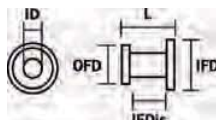
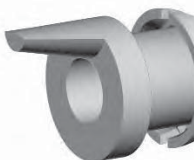
Product	ID	IFD	Material	Qty
10-26012	1.14	5	Activent Silicone	5/bx
10-56012	1.14	5	C-Flex®	5/bx
10-66012	1.14	5	C-Flex	5pr/bx



Umbrella Ventilation Tube

- Inner flange design collapses for insertion and inverts for easy removal through a small incision

Product	ID	L	Material	Qty
10-16030	1.02	2.2	Silicone with Tab	5/bx
10-26030	1.02	2.2	Activent Silicone with Tab	5/bx
10-88801	1.02	2.2	Microgel™ with Tab, Blue	5/bx
10-88802	1.02	2.2	Microgel with Tab, Blue	5pr/bx



All dimensions are approximate and subject to normal manufacturing variance. All measurements are listed as millimeters.

ID = Inner Diameter
 OFD = Outer Flange Diameter
 IFD = Inner Flange Diameter
 L = Length

OFD = Outer Flange Diameter
 IFDis = Interflange Distance
 FL = Flange Length

VENTILATION TUBES: GROMMETS



Venturi™ Style Ventilation Tubes

Product	ID	IFD	IFDis	Material	Qty
10-70011	1.02	2.5	1	Titanium, Reuter Bobbin	5/bx
10-70031	1.27	2.5	1	Titanium, Reuter Bobbin	5/bx
10-70032	1.27	2.5	1	Titanium, Reuter Bobbin	5pr/bx
10-70051	1.27	2.5	1	Microblue®, Titanium Reuter Bobbin	5/bx
10-70052	1.27	2.5	1	Microblue, Titanium Reuter Bobbin	5pr/bx



VT Ventilation Tube

Product	ID	IFD	IFDis	Material	Qty
10-02341	1.27	4.5	1.3	C-Flex®	5/bx
10-64403	1.27	4.5	1.3	C-Flex	50/bx
10-84401	1.27	4.5	1.3	Microgel™, Blue	5/bx
10-84402	1.27	4.5	1.3	Microgel, Blue	5pr/bx
10-84403	1.27	4.5	1.3	Microgel, Blue	50/bx

VENTILATION TUBES: LONG-TERM



Goode T-Tube®

- Soft flanges collapse forward to allow introduction through small incision and comfortable removal at any time
- Flanges keep tube in position on tympanic membrane while reducing chance of early extrusion

Designed by Richard L. Goode, MD, Palo Alto, CA

Product	ID	IFD	IFDis	Material	Qty
10-87701	1.14	9.8	12	Microgel Silicone, Blue	5/bx
10-87702	1.14	9.8	12	Microgel Silicone, Blue	5pr/bx
10-26010	1.14	9.5	12	Activent®, Silicone	5/bx
10-37703	1.14	9.5	12	Activent, Silicone, Blue	50/bx
10-11030	1.14	9.5	12	Biolite®-coated, Silicone	5/bx
10-16010	1.14	9.5	12	Silicone	5/bx
10-16011	1.14	9.5	12	Silicone	50/bx
10-40001	1.14	9.5	12	Silicone	5pr/bx
10-16035	1.14	9.5	12	Firm Silicone	5/bx
2471-2	1.14	9.5	12	Firm Silicone	5 pr
2475-1	1.14	6	6	Firm Silicone	5/bx
2475- 2	1.14	6	6	Firm Silicone	5pr/bx
10-56015	1.14	9	12	C-Flex	5/bx
10-56016	1.14	6.5	6	C-Flex	5/bx
10-66016	1.14	6.5	6	C-Flex	5pr/bx
10-56019	1.14	8	9	C-Flex	5/bx



Modified Goode T-Tube

- Larger lumen provides greater ventilation and firmer durometer silicone; also available in standard silicone and Activent

Product	ID	IFD	IFDis	Material	Qty
10-26040	1.27	9.5	4.5	Activent, Silicone	5/bx
2477-1	1.27	5.8	6.7	Silicone	5/bx
2477-2	1.27	5.8	6.7	Silicone	5pr/bx
10-16040	1.27	9.5	4.5	Firm Silicone	5/bx
10-16041	1.27	9.5	4.5	Firm Silicone	50/bx
10-40002	1.27	9.5	4.5	Firm Silicone	5pr/bx



All dimensions are approximate and subject to normal manufacturing variance.

All measurements are listed as millimeters.

ID = Inner Diameter
 IFD = Inner Flange Diameter
 L = Length
 OFD = Outer Flange Diameter
 IFDis = Interflange Distance
 FL = Flange Length

Ventilation Tubes and Myringotomy Accessories



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VENTILATION TUBES: LONG-TERM

Hoffman Permanent Vent Tube

- Permanent titanium outer tube with hydroxylapatite coating where tube contacts bony annulus for improved anchoring
- Polished inner lumen
- Removable fluoroplastic inner liners



Product	ID	L	Material	Qty
10-28080	1.65	8.3	Titanium with Hydroxylapatite and Fluoroplastic Liner	1 ea
10-28081	1.25	13.4	Fluoroplastic Liner, White	5/bx

Per-Lee Tube

- Designed for long-term ventilation in patients with refractory serous otitis media
- Entire tube may be trimmed to custom fit individual anatomy
- 60° angled flange

Designed by John H. Per-Lee, MD, Atlanta, GA



Product	ID	FL	L	Material	Qty
10-25020	1.5	7.8	15	Silicone, 60°	5/bx

Siegel T-Tubes

- Unique design features a smaller width flange on one side which “nests” into the other flange for easy removal
- Shaft features a 45° angled end



Product	ID	FL	L	Material	Qty
2481-1	1.14	4	7	Silicone	5/bx
2481-2	1.14	4	7	Silicone	5pr/bx

Silverstein Permanent Aeration Tube (SPAT)

- Provides permanent middle ear aeration
- Stylet provided with 12mm SPAT to prevent obstruction in early postoperative period

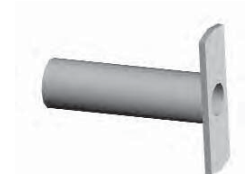
Endorsed by Herbert Silverstein, MD, Sarasota, FL



Product	ID	FL	L	Material	Qty
10-28065	1.14	3.5	12	Silicone, Fluoroplastic Stylet	5/bx
10-28070	1.14	3.5	7	Silicone	5/bx

T-Type Vent Tubes

- T-type inner flange has a flat surface to accommodate normal tympanic membrane anatomy and rounded, blunt edges for easier insertion and removal



Product	ID	FL	L	Material	Qty
10-56018	1.14	4.8	6	C-Flex®	5/bx
10-66018	1.14	4.8	6	C-Flex	5pr/bx

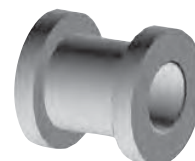
Pediatric Ventilation Tube

- Tube dimensions designed for pediatric or small ear canal applications
- Especially useful in tympanoplasty when inserted in remaining good portion of tympanic membrane to provide ventilation

10-56101, 10-56102, 10-56159 Endorsed by M. Coyle Shea, MD, Memphis, TN

10-56108 Endorsed by William H. Moretz, Jr., MD, Augusta, GA

VENTILATION TUBES: PEDIATRIC



Product	ID	IFD	Material	Qty
1619-1	0.76	2	Microblue® Titanium	5/bx
10-56101	0.76	1.5	Tiny Tytan® Titanium	5/bx
10-56102	0.76	2	Tytan Titanium	5/bx
10-56108	0.76	1.5	Tiny Tytan Titanium, Moretz Tab	5/bx
10-66108	0.76	1.5	Tiny Tytan Titanium, Moretz Tab	5pr/bx
1431-1	0.76	2	Fluoroplastic, White, Mini Shah	5/bx
10-56159	0.76	2	Fluoroplastic, White	5/bx
10-66159	0.76	2	Fluoroplastic, White	5pr/bx
10-36159	0.76	2	Activent®, Fluoroplastic	5/bx



10-12015



10-16025

VENTILATION TUBES: SEMI-PERMEABLE

Semi-Permeable Membrane Tubes

- Silicone may be compressed for easy insertion
- Silicone with fluoroplastic membrane

Product	ID	IFD	IFDis	Material	Qty
10-12015	1.14	2.3	0.9	Donaldson, Silicone with Membrane	5/bx
10-16025	1.27	8.5	2.5	Goode T Grommet, Silicone	5/bx
10-12010	1.14	4.3	0.9	Paparella	5/bx
10-12050	1.27	2.8	1.32	Sheehy	5/bx

VENTILATION TUBES: SHANK STYLE



Armstrong Beveled Straight Shank

- Beveled inner flange, consistent with angle of tympanic membrane, allows easier insertion and removal
- Lumen is parallel to ear canal for better visibility through tube

Designed by Beverly W. Armstrong, MD, Charlotte, NC

Product	ID	IFD	L	Material	Qty
10-10150	1.14	3.6	10	Fluoroplastic, Green	5/bx
10-10005	1.14	3.6	8	Fluoroplastic, Green	5/bx
10-10000	1.14	3.6	7	Fluoroplastic, Green	5/bx
10-40022	1.14	3.6	7	Fluoroplastic, Green	5pr/bx
10-10050	1.14	3.6	12	Silicone	5/bx
10-26140	1.14	3.6	7	Activent, Silicone	5/bx
10-10040	1.14	3.6	7	Silicone	5/bx
10-10045	1.14	3.6	10	Silicone	5/bx



Armstrong V Tube

- Forward-projecting tab allows easy insertion and clear visualization of incision
- Notch in shank may be used as a tab for insertion and removal with alligator forceps

Designed by Beverly W. Armstrong, MD, Charlotte, NC

Product	ID	L	Material	Qty
10-56120	1.14	7.5	Fluoroplastic, White	5/bx
10-66120	1.14	7.5	Fluoroplastic, White	5pr/bx
10-56121	1.14	4.5	Fluoroplastic, White	5/bx
10-66121	1.14	4.5	Fluoroplastic, White	5pr/bx
10-36121	1.14	4.5	Activent Fluoroplastic	5/bx
10-56030	1.14	7.5	H/C-Flex®	5/bx
10-56031	1.14	4.5	H/C-Flex	5/bx



Plain Straight Shank

- Long shaft design may resist water migration into middle ear
- Small inner flange for easy insertion in small incision

Product	ID	IFD	L	Material	Qty
1435-1	1.14	2.3	12	Fluoroplastic, White	5/bx
10-19301	1.14	2.75	7	Fluoroplastic, Blue	5/bx
10-19101	0.89	2.75	7	Fluoroplastic, Blue	5/bx
10-56165	0.89	2.1	7	Fluoroplastic, White	5/bx
10-66165	0.89	2.1	7	Fluoroplastic, White	5pr/bx
10-19201	1.14	2.2	7	Fluoroplastic, Blue	5/bx
10-56166	0.89	2.1	12	Fluoroplastic, White	5/bx
10-56167	1.14	2.1	7	Fluoroplastic, White	5/bx
10-38050	1.14	2.75	7	Activent Fluoroplastic	5/bx
10-36165	0.89	2.1	7	Activent Fluoroplastic	5/bx

TYMPANIC MEMBRANE PATCH

Kartush Tympanic Membrane (TM) Patcher

- Patch may be used when surgery is not an acceptable alternative for patients who:
 - 1) have a perforation in an only-hearing ear,
 - 2) may be too elderly or too ill, or
 - 3) are children in whom surgery must be delayed to await maturation of eustachian tube dysfunction
- 0.127mm thick malleable flanges allows flexibility to fold the deep flange into the perforation while allowing enough rigidity for the lateral flange to remain in place
- Can be trimmed to fit as needed
- Sterile, single use



Designed by Jack M. Kartush, MD, Farmington Hills, MI

Product	Dia	CD	Material	Qty
14-16000	3	0.9	Silicone	1 ea
14-16010	5	1.1	Silicone	1 ea
14-16020	7	1.3	Silicone	1 ea
14-16030	10	1.4	Silicone	1 ea

MYRINGOTOMY ACCESSORIES AND INSTRUMENTS

E/Z Load T-Tube Inserter and Replacement Pin

- Designed for precise control in delivery and insertion of "T" tubes
- Accepts T-Tube lengths from standard 12mm overall to approximately 6mm overall
- Non-sterile

Product	Description/Material	Qty
13-52237	E/Z Load Inserter, Hardcoat Aluminum & Stainless Steel	1 ea
13-52238	Replacement Pin	1 ea



Goode T-Tube® Inserter

- Easy to load and handle
- Non-sterile

Product	Description/Material	Qty
13-16005	Stainless Steel, Satin Finish	1 ea



Micro Otologic Blade, Downcutting Angled

- Myringotomy – angled shank
- Precision, hollow-ground 4mm razor edge – a smaller, sharper, tougher edge
- Hardened, heat-treated surgical stainless steel blade provides firm control
- Sterile, single use

Product	Description/Material	Fits in:	Qty
14-58231	Stainless Steel, Downcutting	E/Z CHUCK (13-52321)	5/bx



All dimensions are approximate and subject to normal manufacturing variance.
All measurements are listed as millimeters.
CD = Central Diameter

MYRINGOTOMY ACCESSORIES AND INSTRUMENTS



Micro Otologic Blade, Razor

- Tympanoplasty – straight shank
- Precision, hollow-ground 4mm razor edge – a smaller, sharper, tougher edge
- Hardened, heat-treated surgical stainless steel blade provides firm control
- Sterile, single use

Product	Description/Material		Qty
14-58232	Stainless Steel, Razor, Straight	Fits in: E/Z CHUCK (13-52321)	5/bx



Micro Otologic Blade, Spear

- Tympanoplasty – straight shank
- Precision, hollow-ground razor edge – a smaller, sharper, tougher edge
- Hardened, heat-treated surgical stainless steel blade provides firm control
- Sterile, single use

Product	Description/Material		Qty
14-58234	Stainless Steel, Spear, Straight	Fits in: E/Z CHUCK (13-52321)	5/bx



Micro Otologic Blade, Spear, Angled

- Myringotomy – angled shank
- Precision, hollow-ground razor edge – a smaller, sharper, tougher edge
- Hardened, heat-treated surgical stainless steel blade provides firm control
- Sterile, single use

Product	Description/Material		Qty
14-58233	Stainless Steel, Spear, Angled	Fits in: E/Z CHUCK (13-52321)	5/bx



Micro Otologic Blade, Upcutting, Angled

- Myringotomy – angled shank
- Precision, hollow-ground 4mm razor edge – a smaller, sharper, tougher edge
- Hardened, heat-treated surgical stainless steel blade provides firm control
- Sterile, single use

Product	Description/Material		Qty
14-58230	Stainless Steel, Upcutting	Fits in: E/Z CHUCK (13-52321)	5/bx



Myringotomy Blade, Narrow

- Popular style blade
- Sterile, single use

Product	Description/Material		Qty
14-58275	Myringotomy Blade 71N, Narrow	Fits in: E/Z CHUCK (13-52321)	5/bx



Myringotomy Blade, Spear Tip

- Sterile, single use

Product	Description/Material		Qty
14-58276	Myringotomy Blade 71S, Spear	Fits in: E/Z CHUCK (13-52321)	5/bx

Ventilation Tubes and Myringotomy Accessories



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MYRINGOTOMY ACCESSORIES AND INSTRUMENTS

Myringotomy Knife, Lance Blade

- Sterile, single use

Product	Description/Material	Qty
14-11050	Lance Blade, Integral Handle	10/bx

Myringotomy Knife, Spear Blade

- Sterile, single use

Product	Description/Material	Qty
14-11000	Spear Blade, Integral Handle	10/bx

E/Z Chuck Blade Handle

- For use with Micro Otologic Knife Blades; holds flat or round style blades
- Single-twist action secures or releases blades
- 6.3mm diameter, 10.5cm overall length
- Non-sterile, autoclavable

Product	Description/Material	Qty
13-52321	E/Z Chuck Blade Handle C-Flex® TPE & Hardcoat Aluminum	1 ea
	Fits with:	
	Micro Otologic Blade, Downcutting	(14-58231)
	Micro Otologic Blade, Razor	(14-58232)
	Micro Otologic Blade, Spear	(14-58234)
	Micro Otologic Blade, Spear Angled	(14-58233)
	Micro Otologic Blade, Upcutting	(14-58230)
	Myringotomy Blade, Narrow	(14-58275)
	Myringotomy Blade, Spear Tip	(14-58276)

LiteTouch Uni-Handle

- For use with Micro Otologic Blades; holds round style blades
- Positive locking collet to secure blades
- 11.7cm overall length
- Non-sterile, autoclavable

Product	Description/Material	Qty
13-52325	LiteTouch Uni-Handle Black Hardcoat Aluminum	1 ea
	Fits with:	
	Micro Otologic Blade, Downcutting	(14-58231)
	Micro Otologic Blade, Razor	(14-58232)
	Micro Otologic Blade, Spear	(14-58234)
	Micro Otologic Blade, Spear, Angled	(14-58233)
	Micro Otologic Blade, Upcutting	(14-58230)

Disposable Myringotomy Kit, Adult & Pediatric

- Kit includes: 5 sizes of ear specula 2 sizes of currettes
1 myringotomy knife, sickle blade 1 suction
- Sterile, single use

Product	Description/Material	Qty
0208	Disposable Myringotomy Kit	10 kits/bx

Ionesthetizer System Components

- For use with 14-36000 Ionesthetizer System

Product	Description/Material	Qty
14-36400	Electrical Cable Assembly	1 ea
14-36500	Arm/Ear Electrode Set	10/bx



Ossicular Reconstruction Implants and Accessories



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BIOMATERIALS FOR OSSICULAR RECONSTRUCTION

Polycel® Porous Ultra High Molecular Weight Polyethylene

- Porous polyethylene material is well-tolerated in middle ear applications
- Porous surface permits tissue ingrowth that stabilizes implant and provides secure reconstruction
- Clinical history in middle ear reconstruction is well-documented
- Polycel is easy to configure with a knife or scissors

Hydroxylapatite (H/A)

- Dense hydroxylapatite (calcium phosphate ceramic) closely resembles natural bone
- Biocompatible, non-organic alternative to homographs
- Stabilized H/A implants provide excellent sound conduction and resist degradation
- Sculpting and shaping is performed with a diamond bur under irrigation

H/A-Coated Polycel

- Combines the best features of Polycel and hydroxylapatite by providing a coating of H/A on targeted areas of the prosthesis
- Implant is easily tailored and lightweight, with H/A located where bone or tissue interfaces are desired

Platinum

- Non-corrosive, biocompatible, non-magnetic
- Platinum ribbons are malleable and retain their shape once crimped
- 99.99% pure platinum, non-ferromagnetic

Titanium

- Lightweight metal
- Biocompatible, non-ferromagnetic, ASTM F-136 and F-67

Stainless Steel

- Excellent sound conduction qualities, well-tolerated in middle ear environment
- Polished surfaces resist adhesions
- ASTM F-138 (Type 316)

Fluoroplastic (FLPL)

- Rigidity provides excellent sound conduction while smooth, non-stick surface minimizes adhesions
- Excellent clinical history in stapedotomy, stapedectomy, and ossicular chain reconstruction
- Proven biocompatibility in middle ear applications

Flex H/A

- Unique blend of biomaterials combines the biocompatibility of dense H/A with the handling characteristics of silicone
- Non-porous surface resists adhesions
- Easy to trim or configure with knife or scissors

Hyaluronic Acid (HYAFF®)

- Biomaterial composed of HYAFF, an ester of hyaluronic acid
- Hyaluronic acid is a naturally occurring constituent of the extracellular matrix

STAPEDECTOMY/STAPEDOTOMY IMPLANTS: PISTONS

The Big Easy® Piston

- Triple width platinum loop is easier to crimp
- Stronger, double width platinum shaft is less likely to crumple on insertion
- Shorter titanium body makes it easier to see the footplate
- Clear depth marker
- Offset piston with angled shaft accommodates partial necrosis of the incus
- Right and left versions
- MRI-safe

Endorsed by Jack M. Kartush, MD, Farmington Hills, MI

Product	SD	L	Material	Qty
1156601	0.5	4	Platinum and Titanium	1 ea
1156602	0.5	4.25	Platinum and Titanium	1 ea
1156603	0.5	4.5	Platinum and Titanium	1 ea
1156604	0.5	4.75	Platinum and Titanium	1 ea
1156611	0.5	4.5	Platinum and Titanium	1 ea
1156612	0.5	4.75	Platinum and Titanium	1 ea
1156613	0.5	5	Platinum and Titanium	1 ea
1156621	0.5	4.5	Platinum and Titanium	1 ea
1156622	0.5	4.75	Platinum and Titanium	1 ea
1156623	0.5	5	Platinum and Titanium	1 ea



Causse Loop Pistons

- Especially suitable for the techniques of Jean-Bernard Causse, MD, in performing a posterior stapedotomy
- A diamond bur is used to make a hole in the third posterior part of the footplate and a large vein graft is interpositioned in the hole. The slim shaft is thus discouraged from pressing upon the sacculle in case of vacuum in the middle ear.

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	LID	SD	L	Material	Qty
11-56314	0.6	0.4	6	Fluoroplastic	1 ea
11-56316	0.6	0.6	6	Fluoroplastic	1 ea

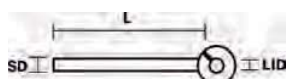


Causse Large Loop Pistons

- Larger loop inside diameter of .8mm allows easier adaptation to variation of incus sizes in stapedotomy techniques
- Fluoroplastic helps to minimize adhesions

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	LID	SD	L	Material	Qty
11-29015	0.8	0.3	4.5	Fluoroplastic	1 ea
11-29020	0.8	0.3	5	Fluoroplastic	1 ea
11-29030	0.8	0.3	6	Fluoroplastic	1 ea
11-56241	0.8	0.4	6	Fluoroplastic	1 ea
11-29040	0.8	0.6	4	Fluoroplastic	1 ea
11-29045	0.8	0.6	4.5	Fluoroplastic	1 ea
11-29050	0.8	0.6	5	Fluoroplastic	1 ea
11-29055	0.8	0.6	6	Fluoroplastic	1 ea
11-29065	0.8	0.8	4.5	Fluoroplastic	1 ea
11-29070	0.8	0.8	5	Fluoroplastic	1 ea



All dimensions are approximate and subject to normal manufacturing variance.

All measurements are listed as millimeters.

*Length measurements are as shown except on products noted with an asterisk, in which case length is measured overall.

SD = Shaft Diameter LID = Loop Inner Diameter L = Length* SL = Shaft Length

STAPEDECTOMY/STAPEDOTOMY IMPLANTS: PISTONS



Causse Loop with Stapes Tendon Attachment

- Stapedial tendon can be reattached to Polycel platform on the shaft for possible improved hearing qualities
- Tendon attachment only is also available and made of Polycel (11-31050)

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	L	Material	Qty
11-31000	0.4	4.5	Fluoroplastic and Polycel®	1 ea
11-31050			Tendon Attachment Only – Polycel	1 ea



Causse Malleus Loop with Malleable Shaft

- Stainless steel core allows optimal alignment and positioning between malleus and footplate
- Opening in loop at 2 o'clock position provides secure attachment to malleus

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	L	Material	Qty
11-33191	0.4	12	Fluoroplastic and Stainless Steel	1 ea



De la Cruz Platinum and Fluoroplastic Pistons

- Shortened piston shaft for improved visibility during placement in stapedotomy techniques
- Round platinum (0.127mm diameter) wire converges to a flat ribbon shape in the loop portion

Endorsed by Antonio De la Cruz, MD, Los Angeles, CA

Product	SD	SL	L	Material	Qty
11-56278	0.6	1.25	3.75	Platinum and Fluoroplastic	1 ea
11-56279	0.6	1.25	4	Platinum and Fluoroplastic	1 ea
11-56280	0.6	1.25	4.25	Platinum and Fluoroplastic	1 ea
11-56281	0.6	1.25	4.5	Platinum and Fluoroplastic	1 ea
11-56282	0.6	1.25	4.75	Platinum and Fluoroplastic	1 ea
11-56283	0.6	1.25	5	Platinum and Fluoroplastic	1 ea

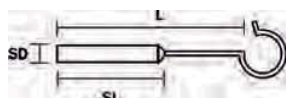


De la Cruz Stainless Steel and Fluoroplastic Pistons

- Shortened piston shaft for improved visibility during placement in stapedotomy techniques
- Round stainless steel (0.127mm diameter) wire

Endorsed by Antonio De la Cruz, MD, Los Angeles, CA

Product	SD	SL	L	Material	Qty
11-56479	0.6	1.25	4	Stainless Steel and Fluoroplastic	1 ea
11-56480	0.6	1.25	4.25	Stainless Steel and Fluoroplastic	1 ea
11-56481	0.6	1.25	4.5	Stainless Steel and Fluoroplastic	1 ea



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SD = Shaft Diameter SL = Shaft Length L = Length*

STAPEDECTOMY/STAPEDOTOMY IMPLANTS: PISTONS

Fisch Platinum and Fluoroplastic Pistons

- Featuring round platinum wire converging to a flat ribbon shape in the loop
- Closes uniformly with very slight pressure; can be cut to desired length
- 0.4mm diameter preferred by Professor Fisch for stapedotomies

Endorsed by Professor Ugo Fisch, Zurich, Switzerland

Product	SD	SL	L	Material	Qty
11-56234	0.4	4	6	Platinum and Fluoroplastic	1 ea
11-56235	0.5	4	6	Platinum and Fluoroplastic	1 ea
11-56236	0.6	4	6	Platinum and Fluoroplastic	1 ea
0440	0.4	4.6	8.8	Platinum and Fluoroplastic	1 ea



Fisch Stainless Steel and Fluoroplastic Pistons

- Round stainless steel wire with fluoroplastic piston shaft helps minimize adhesions
- Can be cut to desired length

Endorsed by Professor Ugo Fisch, Zurich, Switzerland

Product	SD	SL	L	Material	Qty
11-56324	0.4	4	6	Stainless Steel and Fluoroplastic	1 ea
11-56325	0.5	4	6	Stainless Steel and Fluoroplastic	1 ea
11-56326	0.6	4	6	Stainless Steel and Fluoroplastic	1 ea
91-00420	0.5	4	6	Stainless Steel and Fluoroplastic	1 ea



Fluoroplastic and Platinum Pistons

- Featuring round platinum wire converging to a flat ribbon shape in the loop
- Closes uniformly with very slight pressure
- Ductile, biocompatible platinum retains its closure

Product	SD	SL	L	Material	Qty
11-56221	0.5	2.5	4	Platinum and Fluoroplastic	1 ea
11-56222	0.5	2.5	4.25	Platinum and Fluoroplastic	1 ea
11-56223	0.5	2.5	4.5	Platinum and Fluoroplastic	1 ea
11-56224	0.5	2.5	4.75	Platinum and Fluoroplastic	1 ea
11-56255	0.6	2.5	4	Platinum and Fluoroplastic	1 ea
11-56256	0.6	2.5	4.25	Platinum and Fluoroplastic	1 ea
11-56257	0.6	2.5	4.5	Platinum and Fluoroplastic	1 ea
11-56258	0.6	2.5	4.75	Platinum and Fluoroplastic	1 ea



House-Type Piston and Wire

- Round wire loop for easy positioning and closure over incus
- Stainless steel piston shaft resists adhesions

Product	SD	L	Material	Qty
11-17035	0.4	4.5*	Stainless Steel	1 ea
11-17040	0.4	4.75*	Stainless Steel	1 ea
11-17045	0.4	5*	Stainless Steel	1 ea



Lesinski Platinum and Fluoroplastic Stapedotomy Pistons

- For a high degree of otologic performance
- Designed for stapedotomy performed with laser, microdrill or hand drill on stapes footplate

Endorsed by S. George Lesinski, MD, Cincinnati, OH

Product	SD	SL	L	Material	Qty
0427	0.6	2	4.25	Platinum and Fluoroplastic	1 ea
0428	0.6	2	4.5	Platinum and Fluoroplastic	1 ea
0429	0.6	2	4.75	Platinum and Fluoroplastic	1 ea



STAPEDECTOMY/STAPEDOTOMY IMPLANTS: PISTONS

McGee Pistons – Incus Attachment

- Round wire loop for easy positioning and closure over incus
- Stainless steel piston shaft resists adhesions
- Distal end of piston is contrast-finished to provide a 0.5mm reference zone for depth positioning



Endorsed by T. Manford McGee, MD

Product	SD	L	Material	Qty
11-56332	0.6	4.25	Stainless Steel	1 ea
11-56333	0.6	4.5	Stainless Steel	1 ea

McGee Modified Loop Pistons

- Round loop design with closure tab
- One piece, stainless steel
- Distal end of piston is contrast-finished to provide a 0.5mm reference zone for depth positioning



Endorsed by T. Manford McGee, MD, Detroit, MI

Product	SD	L	Material	Qty
11-56210	0.5	3.75	Stainless Steel	1 ea
11-56211	0.5	4	Stainless Steel	1 ea
11-56212	0.5	4.25	Stainless Steel	1 ea
11-56213	0.5	4.5	Stainless Steel	1 ea
11-56214	0.5	4.75	Stainless Steel	1 ea

Portmann Piston – Clip

- Designed for use as stapedotomy prosthesis
- Curved wire clip facilitates placement over incus



Endorsed by Professor Michel Portmann, Bordeaux, France

Product	SD	L	Clip	Material	Qty
11-25020	0.4	7.*	0.5	Stainless Steel and Fluoroplastic	1 ea
11-25025	0.4	7.*	0.6	Stainless Steel and Fluoroplastic	1 ea

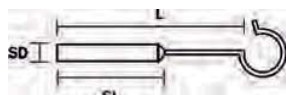
Schuknecht-Type Piston and Wire

- Fluoroplastic piston, stainless steel wire
- For incus attachment



Endorsed by Harold F. Schuknecht, MD

Product	SD	L	Material	Qty
11-28110	0.6	3.5	Stainless Steel and Fluoroplastic	1 ea
11-28115	0.6	3.75	Stainless Steel and Fluoroplastic	1 ea
11-28120	0.6	4	Stainless Steel and Fluoroplastic	1 ea
11-28125	0.6	4.25	Stainless Steel and Fluoroplastic	1 ea
11-28130	0.6	4.5	Stainless Steel and Fluoroplastic	1 ea
11-28135	0.6	4.75	Stainless Steel and Fluoroplastic	1 ea
11-28140	0.6	5	Stainless Steel and Fluoroplastic	1 ea
11-28145	0.8	4	Stainless Steel and Fluoroplastic	1 ea
11-28150	0.8	4.25	Stainless Steel and Fluoroplastic	1 ea
11-28155	0.8	4.5	Stainless Steel and Fluoroplastic	1 ea
11-28160	0.8	4.75	Stainless Steel and Fluoroplastic	1 ea
11-28165	0.8	5	Stainless Steel and Fluoroplastic	1 ea



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STAPEDECTOMY/STAPEDOTOMY IMPLANTS: CUPPED PISTONS

Bailey/Pappas Modified Cupped Pistons

- Cutaway portion of bucket seats the long process of the incus
- Designed with no hole in shaft, suitable for stapedotomies
- Polished stainless steel for excellent sound conduction and resistance to adhesions

Endorsed by H. A. Ted Bailey, MD and James J. Pappas, MD, Little Rock, AR

Product	SD	WD	L	Material	Qty
11-56452	0.4	1	4	Stainless Steel	1 ea
11-56453	0.4	1	4.25	Stainless Steel	1 ea
11-56454	0.4	1	4.5	Stainless Steel	1 ea
11-56468	0.6	1	4	Stainless Steel	1 ea
11-56469	0.6	1	4.25	Stainless Steel	1 ea
11-56470	0.6	1	4.5	Stainless Steel	1 ea



Cupped Pistons

- Polished stainless steel conducts sound well and resists adhesions
- Cupped portion accepts lenticular process of incus
- Notch in cup cradles arm of incus
- Self-centering; no need to crimp wire around incus

Product	SD	WD	L	Material	Qty
11-33120	0.6	0.88	4	Stainless Steel	1 ea
11-33125	0.6	0.88	4.5	Stainless Steel	1 ea
11-33135	0.6	1	4	Stainless Steel	1 ea
11-33180	0.4	0.88	4	Stainless Steel	1 ea
11-33185	0.4	0.88	4.5	Stainless Steel	1 ea
11-33190	0.4	0.88	5	Stainless Steel	1 ea
11-33195	0.4	1	4	Stainless Steel	1 ea
11-33600	0.8	0.88	4	Stainless Steel	1 ea
11-33650	0.8	0.88	4.25	Stainless Steel	1 ea



Roberson Stapes Prosthesis

- 44 percent lighter than stainless steel design allows improved high-frequency sound transmission
- Narrow design and malleable shaft accommodate the narrow oval window niche/dehiscent facial nerve space
- Improved incus interface and bail wire configuration increase prosthesis stability, which reduces the potential for postoperative displacement
- Textured bucket surface eliminates glare from microscope light reflection
- Piston depth gauge allows enhanced depth judgment for stapedotomy insertion

Endorsed by Joseph Roberson Jr., MD, Palo Alto, CA

Product	SD	WD	L	Material	Qty
11-33061	0.6	0.9	4	Titanium	1 ea
11-33062	0.6	0.9	4.5	Titanium	1 ea
11-33063	0.6	1	4	Titanium	1 ea
11-33064	0.6	1	4.5	Titanium	1 ea
11-33065	10.6	0.9	4.25	Titanium	1 ea
11-33066	0.6	1	4.25	Titanium	1 ea



PARTIAL OSSICULAR RECONSTRUCTION IMPLANTS: TITANIUM

Partial Titanium Prosthesis

- Fully cannulated design enhances view of stapes
- Enhanced stability on stapes capitulum with titanium partial design
- Non-ferromagnetic titanium alleviates MRI concerns when magnetic fields below 1.5 Tesla are used

Product	HD	L	ID	Material	Qty
11-60000	2.5	2	1.1	Titanium	1 ea



Vincent Partial Titanium Prosthesis

- Dense hydroxylapatite head features a deep, centered groove to the malleus
- Enhanced stability on stapes capitulum with titanium partial design
- Non-ferromagnetic titanium alleviates MRI concerns when magnetic fields below 1.5 Tesla are used

Developed in conjunction with Robert Vincent, MD, Béziers, France

Product	HD	L	ID	Material	Qty
11-60050	3.25	2	1.1	Titanium	1 ea



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HD = Head Diameter L = Length ID = Inner Diameter*

PARTIAL OSSICULAR RECONSTRUCTION IMPLANTS: DENSE HYDROXYLAPATITE



Incus Partial Prosthesis

- Incus replacement strut allows for use of smallest prosthesis in reconstruction
- Grooved top fits under malleus
- Partially cannulated shaft fits on head of stapes

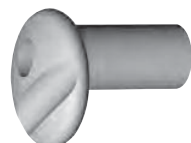
Product	SID	L	Material	Qty
11-12075	1.1	3.75	Hydroxylapatite	1 ea



Mushroom Head Partial with Malleable Link

- For cases where stapes is intact and mobile
- Dense hydroxylapatite shaft fits directly on capitulum of the stapes

Product	SID	HD	L	Material	Qty
0352	1.14	4	5	Hydroxylapatite with Titanium	1 ea



Notched Offset Partial

- Dense H/A cap provides added stability when positioned under the malleus handle
- Offset cap provides correct drum-to-stapes capitulum alignment
- Cannula allows visualization during placement

Product	SID	HD	L	Material	Qty
0362	1.14	4	5	Hydroxylapatite	1 ea



Notched Offset Partial with Malleable Link

- Dense H/A cap fits directly under malleus handle for added stability
- Offset cap provides correct drum to stapes capitulum alignment
- Malleable titanium link can be angled as needed

Product	SID	HD	L	Material	Qty
0364	1.14	4	5	Hydroxylapatite with Titanium	1 ea

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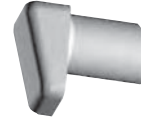
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PARTIAL OSSICULAR RECONSTRUCTION IMPLANTS: DENSE HYDROXYLAPATITE

Partial 75° Rectangular

- Rectangular head positions on drum next to malleus for stability
- Angled shaft accommodates different anatomical needs
- Partially cannulated shaft fits on head of stapes

Product	SID	H	L	Material	Qty
11-12070	1.1	2.5x3.5	4	Hydroxylapatite	1 ea



Partial 90° Off-Center Round

- Off-centered round head provides stable platform for drum
- Fully cannulated shaft fits securely on head of stapes

Product	SID	HD	L	Material	Qty
11-12095	1.1	4	5	Hydroxylapatite	1 ea



Partial 90° Rectangular

- Rectangular head positions on drum next to malleus for stability
- Partially cannulated shaft fits on head of stapes

Product	SID	H	L	Material	Qty
11-12065	1.1	2.5x3.5	4	Hydroxylapatite	1 ea



Partial 90° Round

- Round head provides stable platform for drum
- Fully cannulated shaft fits securely on head of stapes

Product	SID	HD	L	Material	Qty
11-12090	1.1	4	5	Hydroxylapatite	1 ea



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H = Head HD = Head Diameter L = Length SID = Shaft Inner Diameter

PARTIAL OSSICULAR RECONSTRUCTION IMPLANTS: FLEX H/A



Silverstein Incus-Stapes Connector

- Provides a stable platform to aid in reconnecting a disarticulated incudostapedial joint
- May also be used for small defects in the lenticular process of the incus

Endorsed by Herbert Silverstein, MD, Sarasota, FL

Product	ID	OD	H	Material	Qty
11-12120	1.1	2.1	1	Hydroxylapatite	1 ea



Causse Mini-Head Partial with Malleable Link

- Features a smaller, lighter-weight dense H/A cap compared to other Causse designs
- Flex H/A shaft will position securely over head of stapes and may be trimmed with a knife

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SID	HD	L	Material	Qty
0528	1.14	2.5	5	Hydroxylapatite with Flex H/A and Titanium	1 ea



Causse Notched Offset Partial with Malleable Link

- Offset, dense H/A cap with notch fits directly under manubrium of malleus for added stability
- Flex H/A shaft fits securely over head of stapes and may be trimmed with a knife
- Malleable titanium link

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SID	HD	L	Material	Qty
0526	1.14	3.25	5	Hydroxylapatite with Flex H/A and Titanium	1 ea

All dimensions are approximate and subject to normal manufacturing variance.

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HD = Head Diameter

L = Length

H = Head

SID = Shaft Inner Diameter

CID = Cap Inner Diameter

OD = Outer Diameter

ID = Inner Diameter

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PARTIAL OSSICULAR RECONSTRUCTION IMPLANTS: FLEX H/A

Cause-Vincent Notched Narrow Partial with Short Malleable Link

- Offset, dense H/A cap with notch fits directly under manubrium of malleus for added stability
- Flex H/A shaft fits securely over head of stapes and may be trimmed with a knife
- Malleable titanium link

Endorsed by Jean-Bernard Cause, MD, and Robert Vincent, MD, Béziers, France

Product	SID	HD	L	Material	Qty
0543	1.14	3.25	14	Hydroxylapatite with Flex H/A and Titanium	1 ea



Centered Partial with Malleable Link

- Gently rounded, dense H/A cap provides tympanic membrane with excellent tissue interface and broad support
- Flex H/A shaft is easily trimmed and fits securely over head of stapes

Product	SID	HD	L	Material	Qty
0550	1.14	4	5	Hydroxylapatite with Flex H/A and Titanium	1 ea
0551	1.14	3	5	Hydroxylapatite with Flex H/A and Titanium	1 ea



Centered Partial, Non-Malleable

- Prosthesis is fully cannulated to provide visualization during placement onto stapes capitulum
- Flex H/A shaft is easily trimmed

Product	SID	HD	L	Material	Qty
0524	1.14	3	5	Hydroxylapatite and Flex H/A	1 ea

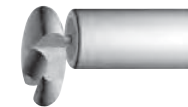


Lesinski Offset Partial with Malleable Link

- H/A cap features unique notch which allows placement directly under the manubrium of the malleus or against tympanic membrane
- Angular adjustments can be readily made with the malleable link
- Flex H/A shaft may be trimmed to fit precisely over head of stapes

Designed by S. George Lesinski, MD, Cincinnati, OH

Product	SID	HD	L	Material	Qty
0531	1.14	3.25	5	Hydroxylapatite with Flex H/A and Titanium	1 ea



Malleus Cradle Partial with Malleable Link

- Dense H/A cap designed to gently cradle handle of malleus
- Lightweight due to minimal cap size
- Titanium link for angular adjustments
- Trimmable Flex H/A shaft

Product	SID	HD	L	Material	Qty
0541	1.14	2x4.4	5	Hydroxylapatite with Flex H/A and Titanium	1 ea



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PARTIAL OSSICULAR RECONSTRUCTION IMPLANTS: FLEX H/A



Millen Thin Head Offset Notched Partial, Non-Malleable

- Thin, dense Flex H/A offset cap specifically designed to avoid contact with the promontory and prevent disruption of sound conduction through prosthesis
- Fully cannulated for improved visualization during placement
- Flex H/A shaft may be easily trimmed

Designed by Steven J. Millen, MD, Hales Corner, WI

Product	SID	HD	L	Material	Qty
0568	1.14	4	5	Hydroxylapatite and Flex H/A	1 ea



Millen Thin Head Partial, Non-Malleable

- Thin, dense Flex H/A offset cap specifically designed to avoid contact with the promontory and prevent disruption of sound conduction through prosthesis
- Fully cannulated for improved visualization during placement
- Flex H/A shaft may be easily trimmed

Designed by Steven J. Millen, MD, Hales Corner, WI

Product	SID	HD	L	Material	Qty
0567	1.14	4	5	Hydroxylapatite and Flex H/A	1 ea



Notched Offset Partial with Malleable Link

- Dense H/A cap fits directly under the manubrium of the malleus to provide added stability
- Cap is offset to allow most drum-to-stapes alignments
- Trimmable Flex H/A shaft

Product	SID	HD	L	Material	Qty
0570	1.14	4	5	Hydroxylapatite with Flex H/A and Titanium	1 ea



Schwaber Offset Partial, Non-Malleable

- Egg-shaped H/A offset cap resists extrusion by eliminating edges, allowing the tympanic membrane to drape over prosthesis
- Elimination of titanium link allows Flex H/A shaft to be trimmed to extremely short lengths

Designed by Mitchell Schwaber, MD, Nashville, TN

Product	SID	HD	L	Material	Qty
0557	1.14	3 x 2	5	Hydroxylapatite and Flex H/A	1 ea



Wiet Offset Partial with Malleable Link

- Mid-size dense H/A cap offset cap for unique reconstructive conditions
- Trimmable Flex H/A shaft is designed to fit over capitulum of stapes
- Patented titanium malleable link

Designed by Richard Wiet, MD, Hinsdale, IL

Product	SID	HD	L	Material	Qty
0516	1.14	3.25	5	Hydroxylapatite with Flex H/A and Titanium	1 ea

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PARTIAL OSSICULAR RECONSTRUCTION IMPLANTS: POLYCEL®



Austin Modified Partial

- Head is off-center for improved surgical visibility
- Fully cannulated for easier positioning on stapes capitulum
- Polycel is easy to trim and configure

Endorsed by David F. Austin, MD, Idaho Falls, ID

Product	SID	HD	L	Material	Qty
11-56361	1.17	3	4.75	Polycel	1 ea



Causse Fluoroplastic Partial

- Polycel head for tissue ingrowth and stabilization
- Fluoroplastic shaft to minimize adhesions
- Cannula allows visualization during placement on stapes

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SID	HD	L	Material	Qty
11-56376	1.17	4	4.75	Polycel and Fluoroplastic	1 ea



11-56297

Moretz Malleus Strut Partial

- U-shaped head positioned to malleus handle
- Straight and angled styles, easily trimmed to desired length

Endorsed by William H. Moretz, Jr., MD, Augusta, GA



11-56296

Product	SID	L	Material	Qty
11-56296	1.17	6.25	Polycel, Angled	1 ea
11-56297	1.17	5	Polycel, Straight	1 ea



Sheehy Partial Ossicular Prosthesis (POP)

- Classic Sheehy design is easy to use and position on head of stapes
- Polycel is easy to trim with knife or surgical scissors
- Round surface of head includes tapered edges to minimize extrusion

Endorsed by James L. Sheehy, MD, Los Angeles, CA

Product	SID	HD	L	Material	Qty
11-56362	1.17	3	4.75	Polycel	1 ea

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HD = Head Diameter

L = Length

SID = Shaft Inner Diameter

TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: DENSE HYDROXYLAPATITE

Cause Notched Offset Total with Short Malleable Link

- Shortened, malleable titanium link allows prosthesis to be trimmed to extremely short lengths
- Notched offset cap improves stability when placed directly under manubrium of malleus
- Dense H/A cap may also be placed directly against the tympanic membrane when malleus is missing
- Off-set design allows most drum-to-stapes footplate alignments

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SID	HD	L	Material	Qty
0321	0.8	3.25	9	Hydroxylapatite and Titanium	1 ea



Mushroom Head Total with Malleable Link

- Patented malleable titanium link allows cap to be positioned to meet individual patient needs
- Dense hydroxylapatite head provides stable bonding platform and support for tympanic membrane when malleus is missing

Product	SID	HD	L	Material	Qty
0300	0.8	4	7	Hydroxylapatite and Titanium	1 ea



Notched Offset Total

- Notched hydroxylapatite head is designed for the manubrium of the malleus and improves the stability of the implant once positioned
- Off-set design allows most drum-to-stapes footplate alignments
- Can be placed directly against the drum if malleus is absent

Product	SID	HD	L	Material	Qty
0361	0.8	4	8	Hydroxylapatite	1 ea



Notched Offset Total with Malleable Link

- Flexible titanium link allows angular adjustments
- Stable notched cap fits directly under manubrium of malleus
- May also be used directly against the tympanic membrane if malleus is missing
- Off-set design allows most drum-to-stapes footplate alignments

Product	SID	HD	L	Material	Qty
0363	0.8	4	7	Hydroxylapatite and Titanium	1 ea



Offset Mushroom Head Total with Malleable Link

- Offset design provides correct alignment between tympanic membrane and tapes footplate
- Dense H/A mushroom head provides broad tympanic membrane support
- Titanium link permits angular changes

Product	SID	HD	L	Material	Qty
0305	0.8	4	7	Hydroxylapatite and Titanium	1 ea



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TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: DENSE HYDROXYLAPATITE

Robinson Malleus-to-Oval Window Prosthesis

- Ideal for conditions such as:
 - Stapedectomy or fenestrated ear
 - Absent incus long process or stapes/incus
 - Malleus fixation
 - Congenital ossicular deformities
 - Traumatic dislocation of ossicles
- Posterior side of malleus trough is 0.2mm shorter to prevent irritation of tympanic membrane
- Equally effective with partial or total footplate removal and drillouts

Designed by Mendell Robinson, MD, Providence, RI



Product	SID	L	Material	Qty
0342	0.6	5.5	Hydroxylapatite	1 ea
0343	0.6	6	Hydroxylapatite	1 ea

Total 75° Rectangular

- Rectangular head positions on drum next to malleus for stability
- Solid, dense H/A provides high level of bioactivity at interface sites
- Angled shaft accommodates different anatomical needs
- May be shaped with diamond bur under irrigation



Product	SID	HD	L	Material	Qty
11-12050	0.89	2.54 x 3.5	8	Hydroxylapatite	1 ea

Total 90° Rectangular

- Rectangular head positions on drum next to malleus for stability
- Solid dense H/A provides high level of bioactivity at interface sites
- May be shaped with diamond bur under irrigation



Product	SID	HD	L	Material	Qty
11-12045	0.89	2.54 x 3.5	8	Hydroxylapatite	1 ea

Total 90° Round

- Round head provides stable platform for drum
- Solid dense H/A provides high level of bioactivity at interface sites
- May be shaped with diamond bur under irrigation



Product	SID	HD	L	Material	Qty
11-12080	0.89	2.54 x 3.5	8	Hydroxylapatite	1 ea

Total 90° Off-Center Round

- Off-centered round head provides stable platform for drum
- Solid dense H/A provides high level of bioactivity at interface sites
- May be shaped with diamond bur under irrigation



Product	SID	HD	L	Material	Qty
11-12085	0.89	4	8	Hydroxylapatite	1 ea

*All dimensions are approximate and subject to normal manufacturing variance.
All measurements are listed as millimeters.*

SD = Shaft Diameter HD = Head Diameter L = Length SID = Shaft Inner Diameter

TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: FLEX H/A

Causse MicroLite Total with Short Malleable Link

- Thinner cap is notched and offset for positioning under the manubrium of the malleus
- Shortened malleable link allows trimming to extremely short lengths for anatomical variations
- Overall design is lighter weight than larger H/A cap designs

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	HD	L	Material	Qty
0529	1	3.25	9	Hydroxylapatite with Flex H/A and Titanium	1 ea



Causse Mini-Head Total with Malleable Link

- Features a smaller, lighter-weight dense H/A cap compared to other Causse designs
- Shaft is easily trimmed with a knife

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	HD	L	Material	Qty
0527	1	2.5	9	Hydroxylapatite with Flex H/A and Titanium	1 ea



Causse Notched Offset Total with Malleable Link

- Notched, offset, dense H/A cap for improved visibility and stability
- 0525 has a trimmable Flex H/A shaft and malleable titanium link
- 05251 has a stainless steel wire through shaft for malleability and improved rigidity

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	HD	L	Material	Qty
0525	1	3.25	9	Hydroxylapatite with Flex H/A and Titanium	1 ea
05251	1	3.25	9	Hydroxylapatite with Flex H/A and SS Wire*	1 ea



Causse Notched Offset Total with Short Malleable Link

- Shortened malleable link allows trimming to extremely short lengths for very small distances between the tympanic membrane and stapes footplate
- Notched, dense H/A cap can accommodate tympanic membrane with or without presence of manubrium
- Flex H/A shaft is readily trimmed

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	HD	L	Material	Qty
0518	1	3.25	9	Hydroxylapatite with Flex H/A and Titanium	1 ea



Causse-Vincent Notched Narrow Cap with Stainless Steel Wire

- Narrow, notched, offset, dense H/A cap for improved visibility and stability
- Trimmable Flex H/A shaft
- Stainless steel wire through shaft for malleability and improved rigidity

Endorsed by Jean-Bernard Causse, MD, and Robert Vincent, MD, Béziers, France

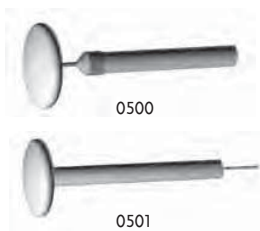
Product	SD	HD	L	Material	Qty
05421	1	3.25	9	Hydroxylapatite with Flex H/A & SS Wire*	1 ea



All dimensions are approximate and subject to normal manufacturing variance.
All measurements are listed as millimeters.

SD = Shaft Diameter HD = Head Diameter L = Length SID = Shaft Inner Diameter

TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: FLEX H/A



Centered Total with Malleable Link

- Gently rounded, dense H/A cap provides tympanic membrane with excellent tissue interface and broad support
- Flex H/A shaft is easily trimmed and provides controlled level of bioactivity
- Malleable titanium link can be angled to suit ossicular geometry

Product	SID	HD	L	Material	Qty
0500	1	4	7	Hydroxylapatite with Flex H/A and Titanium	1 ea
0501	1	3	7	Hydroxylapatite with Flex H/A and Titanium	1 ea



Centered Total, Non-Malleable

- Dense H/A cap provides excellent tympanic membrane interface with or without cartilage interposition
- Non-malleable shaft, made totally of Flex H/A, is easily trimmed to length with a knife

Product	SD	HD	L	Material	Qty
0523	1	3	9	Hydroxylapatite with Flex H/A	1 ea



Lesinski Malleable Offset Totals with Oval Shafts

- Designed for revision stapedotomy due to erosion of the long process of the incus
- Dense H/A cap features unique notch that allows placement directly under the manubrium of the malleus or against tympanic membrane
- Oval Flex H/A shaft allows for improved positioning on stapes footplate
- 05321 has a stainless steel wire through shaft for malleability and improved rigidity

Designed by S. George Lesinski, MD, Cincinnati, OH

Product	SD	HD	L	Material	Qty
0532	1.2x0.8	3.25	8	Hydroxylapatite with Flex H/A and Titanium	1 ea



Lesinski Offset Total with Malleable Link

- Designed for revision stapedotomy due to erosion of the long process of the incus
- Dense H/A cap features unique notch which allows placement directly under the manubrium of the malleus or against tympanic membrane
- Trimmable Flex H/A shaft

Designed by S. George Lesinski, MD, Cincinnati, OH

Product	SD	HD	L	Material	Qty
0530	1	3.25	8	Hydroxylapatite with Flex H/A and Titanium	1 ea



Malleus Cradle Total with Malleable Link

- Dense H/A cap designed to gently cradle manubrium of malleus
- Lightweight due to minimal cap size
- Titanium link can be angled for different anatomical requirements
- Flex H/A shaft is easily trimmable

Product	SD	HD	L	Material	Qty
0540	1	2 x 4.4	10.2	Hydroxylapatite with Flex H/A and Titanium	1 ea

All dimensions are approximate and subject to normal manufacturing variance.
All measurements are listed as millimeters.

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Ossicular Reconstruction Implants and Accessories



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TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: FLEX H/A

Millen Thin Head Total, Non-Malleable

- Thin, dense Flex H/A offset cap specifically designed to avoid contact with the promontory and prevent disruption of sound conduction through prosthesis
- Elimination of titanium link allows Flex H/A shaft to be trimmed to extremely short lengths

Designed by Steven J. Millen, MD, Hales Corner, WI

Product	SD	HD	L	Material	Qty
0564	1	4	9	Hydroxylapatite with Flex H/A and Titanium	1 ea



Millen Thin Head Notched Total, Non-Malleable

- Thin, dense Flex H/A offset cap specifically designed to avoid contact with the promontory and prevent disruption of sound conduction through prosthesis
- Notched head allows placement under manubrium of malleus
- Flex H/A shaft is easily trimmed

Designed by Steven J. Millen, MD, Hales Corner, WI

Product	SD	HD	L	Material	Qty
0565	1	4	9	Hydroxylapatite and Flex H/A	1 ea



Notched Offset Total with Malleable Link

- Dense H/A notched design fits directly under manubrium of malleus to provide added stability
- Offset allows most drum-to-stapes footplate alignments
- Flex H/A shaft is easily trimmed

Product	SD	HD	L	Material	Qty
0520	1	4	9	Hydroxylapatite with Flex H/A and Titanium	1 ea



Offset Total with Malleable Link

- Dense H/A offset cap and malleable link give maximum alignment during total reconstruction
- 4mm diameter head provides broad support of tympanic membrane
- Flex H/A shaft is easily trimmed

Product	SD	HD	L	Material	Qty
0510	1	4	7	Hydroxylapatite with Flex H/A and Titanium	1 ea



Schwaber Total, Non-Malleable

- Dense H/A offset cap and malleable link allow maximum alignment
- Egg-shaped cap resists extrusion by eliminating edges, allowing the tympanic membrane to drape over prosthesis
- Flex H/A shaft may be trimmed to very short lengths

Designed by Mitchell Schwaber, MD, Nashville, TN

Product	SD	HD	L	Material	Qty
0559	1	3 x 2	9	Hydroxylapatite and FLEX H/A	1 ea



Wiet Offset Total with Malleable Link

- Mid-size dense H/A cap offset for unique reconstructive conditions
- Malleable titanium link can be easily bent to individual requirements
- Trimmable Flex H/A shaft

Designed by Richard Wiet, MD, Hinsdale, IL

Product	SD	HD	L	Material	Qty
0515	1	3.25	9	Hydroxylapatite with Flex H/A and Titanium	1 ea



All dimensions are approximate and subject to normal manufacturing variance. All measurements are listed as millimeters.

SD = Shaft Diameter HD = Head Diameter L = Length SID = Shaft Inner Diameter

TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: HYDROXYLAPATITE-COATED POLYCEL®



Brackmann Total

- Thin coating of H/A on Polycel head where implant interfaces with bone, cartilage, or tissue
- Malleable stainless steel core allows permanent tilting of head to match TM angle or bending of shaft to desired configuration

Endorsed by Derald E. Brackmann, MD, Los Angeles, CA

Product	SD	HD	L	Material	Qty
11-12303	0.6	3	8	Hydroxylapatite-coated Polycel and Stainless Steel*	1 ea



Sheehy Total Ossicular Prosthesis (TOP)

- Thin coating of H/A on Polycel head where implant interfaces with bone, cartilage, or tissue
- Oval shaft fits precisely onto stapes footplate
- Round surface of head includes tapered edges to minimize extrusion

Endorsed by James L. Sheehy, MD, Los Angeles, CA

Product	SD	HD	L	Material	Qty
11-12363	0.8 x 1	3	7	Hydroxylapatite-coated Polycel	1 ea

TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: H/A® COMBINATION



Causse Cam Head Total with Shoe

- Dense H/A cam head design will fit securely on drum next to malleus
- Fluoroplastic shaft resists adhesions
- Stainless steel core in shaft is malleable and increases rigidity
- Footplate shoe stabilizes implant on stapes footplate

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	HD	L	Material	Qty
11-12195	0.4	4 x 2.7	10	Hydroxylapatite with Fluoroplastic and SS*	1 ea



Causse Delta Head Total

- For revision stapedectomy procedures where malleus handle is absent
- Small delta head may be secured to drum with a vein graft in a sandwich graft technique
- Shaft is malleable and may be trimmed with a knife
- Dense hydroxylapatite head with fluoroplastic shaft and stainless steel wire core

Endorsed by Jean-Bernard Causse, MD, Béziers, France

Product	SD	HD	L	Material	Qty
11-12194	0.4	2.5	20	Hydroxylapatite with Fluoroplastic and SS*	1 ea

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Ossicular Reconstruction Implants and Accessories



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TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: POLYCEL®

Cause Malleus Head Total with Shoe

- Dense H/A head provides lock-in fit with malleus handle
- Malleable FLPL shaft and stainless steel shaft increases rigidity and resists adhesions
- Footplate shoe provides broad, stable contact with stapes footplate to resist post-operative migration

Endorsed by Jean-Bernard Cause, MD, Béziers, France

Product	SD	HD	L	Material	Qty
11-12190	0.4	4 x 2.1	10	Hydroxylapatite with Fluoroplastic and SS*	1 ea



Cause Stapedotomy Revision Prosthesis with Short Malleable Link

- Designed for reconstruction due to erosion of the long process of the incus
- Short malleable link allows prosthesis to be trimmed to very short lengths
- Notched H/A cap fits against tympanic membrane or under malleus

Endorsed by Jean-Bernard Cause, MD, Béziers, France

Product	SD	HD	L	Material	Qty
0322	0.4	3.25	9	Hydroxylapatite with Fluoroplastic and Titanium	1 ea



Austin Modified Total

- Head is off-center for improved surgical visibility
- May be cut to desired length
- Head or shaft may be permanently angled or bent

Endorsed by David F. Austin, MD, Idaho Falls, ID

Product	SD	HD	L	Material	Qty
11-56305	0.6	3	8	Polycel and Stainless Steel**	1 ea



Brackmann Modified Total

- May be cut and bent for custom fit, providing good tension to system for continued sound transmission
- Head or shaft may be permanently angled or bent

Endorsed by Derald E. Brackmann, MD, Los Angeles

Product	SD	HD	L	Material	Qty
11-56303	0.6	3	8	Polycel and Stainless Steel**	1 ea



Fisch Modified Total

- Wedge-shaped head provides good visibility during placement
- Malleable core of stainless steel allows permanent bending of shaft to desired angle

Endorsed by Professor Ugo Fisch, MD, Zurich, Switzerland

Product	SD	HD	L	Material	Qty
11-56307	0.6	2.2 x 3	8	Polycel and Stainless Steel**	1 ea



All dimensions are approximate and subject to normal manufacturing variance.
All measurements are listed as millimeters.

SD = Shaft Diameter HD = Head Diameter L = Length SID = Shaft Inner Diameter

TOTAL OSSICULAR RECONSTRUCTION IMPLANTS: POLYCEL®



Fisch Spandrel II Total with Shoe

- Specifically developed with tapering, leaf-like edges, large head has a broad, flat surface, easily contoured to the undersurface of the tympanic membrane
- Malleable core of stainless steel may be cut to desired length and angled
- Footplate shoe (11-56308) stabilizes prosthesis on stapes footplate

Endorsed by Derald E. Brackmann, MD, Los Angeles

Product	SD	HD	L	Material	Qty
11-56295	0.6	5	6.75	Polycel and Stainless Steel*	1 ea
11-56308				Footplate Shoe Only - Polycel	1 ea



Polycel Malleus-to-Footplate Strut

- For use with short, eroded malleus handle
- Grooved head may be sliced off to desired fit
- Shaft may be bent to reach footplate without angled "propping"

Endorsed by M. Coyle Shea, M., Memphis, TN, and Professor M. Bauer, MD, Pecs, Hungary

Product	SD	HD	L	Material	Qty
11-56310	0.6	2.5	8	Polycel and Stainless Steel*	1 ea



Sheehy Total Ossicular Prosthesis (TOP)

- Oval shaft allows bypass of the crura
- Conforms to stapes footplate
- May be cut to desired length with knife and surgical scissors
- Surface of round head includes tapered edges for reduced extrusion

Endorsed by James L. Sheehy, MD, Los Angeles, CA

Product	SD	HD	L	Material	Qty
11-56363	0.8 x 1	3	8	Polycel	1 ea

UNIVERSAL OSSICULAR RECONSTRUCTION IMPLANTS: FLEX H/A



Convertible Prosthesis – Total, Partial or Strut

- Three-in-one implant: options include total, with or without a footplate, a partial or a strut
- Supplied as a partial with separate insertable total shaft with shoe
- Cap is dense H/A for direct contact to the tympanic membrane, shaft is Flex H/A and easily shaped

Product	PID	HD	PL	TL	Material	Qty
0590	1.14	3	5	8	Hydroxylapatite and Flex H/A	1 ea



Garcia-Ibanez Notched Universal Prosthesis

- Features notched, offset H/A cap with malleable link for varying anatomical requirements
- Easily converts from a total to a partial with a knife
- Can be used as a strut for stapes superstructure replacement
- Modification of popular GI prosthesis

Designed by Emilio Garcia-Ibanez, MD, Barcelona, Spain

Product	PID	HD	PL	TL	Material	Qty
0508	1.14	3.3 x 2.9	4.25	8	Hydroxylapatite, Flex H/A and Titanium	1 ea

All dimensions are approximate and subject to normal manufacturing variance.
All measurements are listed as millimeters.

SD = Shaft Diameter HD = Head Diameter L = Length SID = Shaft Inner Diameter
PID = Partial Inner Diameter PL = Partial Length TL = Total Length

Ossicular Reconstruction Implants and Accessories



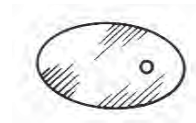
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MIDDLE EAR LINERS

Cause Stapes Sheet

- For stapedectomy
- Used to line middle ear cavity
- Designed to reduce adhesions

Endorsed by Jean-Bernard Cause, MD, Béziers, France



Product	L	H	T	Material	Qty
11-28450	15	8	.03	Fluoroplastic	1 ea

Silverstein Packing Strips

- For use in stapedectomy and tympanoplasty
- Pre-cut strips
- Non-raveling
- Non-adherent
- Products 14-25015 and 14-25020 are .13mm thick
- Products 14-28005 and 14-28010 are .08mm thick
- Sterile



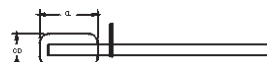
Product	Size	Material	Qty
14-25020	1/4" x 1 1/4" Reg (0.6cm x 3.1cm)	Fluoroplastic	6 strips/pk
14-28005	1/4" x 2" Long (0.6cm x 5cm)	Polyester	6 strips/pk
14-28010	1/4" x 1 1/4" Reg (0.6cm x 3.1cm)	Polyester	6 strips/pk

ENDOLYMPHATIC SHUNTS

Austin Endolymphatic Shunts

- Polycel dispersion chamber helps prevent tissue plugging
- Tubing maintains patency of the distal endolymphatic duct
- The tube diameter provides a constant capillary pressure for aspiration of endolymph
- Shunt is held in position against the mastoid wall by the platinum clip

Endorsed by David Austin, MD, Chicago, IL



Product	CD	CL	OD	ID	L	Material	Qty
11-56404	2	3.5	0.64	0.3	18	Polycel with Silicone and Platinum	1 ea

All dimensions are approximate and subject to normal manufacturing variance.

All measurements are listed as millimeters.

SD = Shaft Diameter HD = Head Diameter L = Length SID = Shaft Inner Diameter
 H = Head T = Thickness ID = Inner Diameter OD = Outer Diameter
 CD = Chamber Diameter CL = Chamber Length

MIDDLE EAR SPECIALTY INSTRUMENTS



Juhn Tym-Tap® Middle Ear Fluid Aspirator/Collector

- A sterile, disposable middle ear fluid aspirator/collector
- Simple, inexpensive method for collecting non-contaminated fluid samples
- Adjustable tubing angle for optimal visibility and access

Designed by S.K. Juhn, MD, Minneapolis, MN

Product	Qty
14-19010	10/bx



Moretz Trimming Block

- Trims fluoroplastic pistons to lengths of 3-5.5 mm in increments of 0.25mm
- Accommodates range of piston sizes of 0.8, 0.6, 0.5, and 0.4mm in diameter
- Millimeter scale on work surface
- Holes aid assembly and prep of cartilage graft to head of totals and partials
- Oval depression holds and stabilizes footplate shoe
- May be sterilized by autoclaving

Endorsed by William H. Moretz, Jr., MD, Augusta, GA

Product	Size	Material	Qty
13-52294	0.8 x 4.4 x 5cm	Stainless Steel	1 ea



Tympanocentesis Collector

- A sterile, disposable aspirator/collector for tympanocentesis
- Simple, one-step and inexpensive method for collecting non-contaminated middle ear fluid samples by needle aspiration
- Collector features a Luer-type needle port on the distal end and a suction tubing port on proximal end

Modified by Alejandro Hoberman, M.D., Pittsburgh, PA

Product	Qty
14-19020	10/bx



Disposable Suction Handle with Bypass Control

- For use with Luer-Tipped Suction Needle
- Sterile, single use

Product	Qty
13-58270	10/bx

All dimensions are approximate and subject to normal manufacturing variance.
All measurements are listed as millimeters.

Ossicular Reconstruction Implants and Accessories



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MIDDLE EAR SPECIALTY INSTRUMENTS

MicroLite Disposable Suction Needles

- Plastic Luer adapter without bypass included
- MicroLite thin wall increases bore size for 20% greater volumetric flow rate
- Available suction handle with bypass (13-58270) may be used
- Single use, sterile packaged
- Easily bent to any desired angle



Product	Description	Qty
13-59254	14 gauge red	10/bx
13-59260	20 gauge green	10/bx
13-59256	16 gauge yellow	10/bx
13-59262	22 gauge clear	10/bx
13-59258	18 gauge black	10/bx
13-59264	24 gauge blue	10/bx

EXTERNAL EAR PROTECTORS

External Ear Protector, Hard

- Includes five 4" x 4" (10cm x 10cm) sterile gauze pads, one non-adherent pad
- Sterile, single use



Product	Material	Qty
14-15000	Sterile Gauze	5/bx

External Ear Protector, Soft

- Includes five 4" x 4" (10cm x 10cm) sterile gauze pads, one non-adherent pad
- Sterile, single use



Product	Material	Qty
14-15005	Sterile Gauze	5/bx

HEAD SUPPORTS

Bio-Flek® Surgical Head Supports

- Design incorporates a unique contour for stable positioning of the head and neck
- Allows uniform pressure distribution with firm support
- Full 50.8 mm uniform thickness for use on the O.R. table pad
- Made of Bio-Flek®, a specially formulated, open cell polyurethane foam
- Foam is breathable and dissipates moisture
- Conforms to body contours upon contact
- Non-allergenic, fire retardant
- Recommended for single use

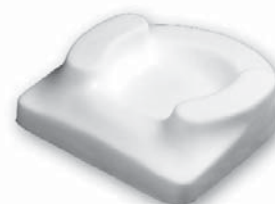
Offset design endorsed by William H. Moretz, Jr., MD, Augusta, GA



Product	Size	Qty
13-58225	Standard	50.8mm x 22.9cm (2"x9") 1 ea
13-58227	Riser	25.4mm x 22.9cm (1"x9") 1 ea

Thornton Headrest

Product	Description	Qty
00-09900	Thornton Headrest	3/box



All dimensions are approximate and subject to normal manufacturing variance. All measurements are listed as millimeters.

Hyaluronic Acid-Based Wound Healing and Packing Products



Hyaluronic Acid-Based Wound Healing and Packing Products



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Hyaluronic Acid-Based Wound Healing and Packing Products

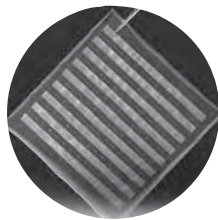
MeroGel® Nasal Dressing/Sinus Stent and Otologic Packing	115
EpiDisc® Otologic Lamina	115
EpiFilm® Otologic Lamina	115
EpiDisc® Tympanic Membrane Perforation Patch Kit	116



MeroGel® Nasal Dressing/Sinus Stent and Otologic Packing

- A packing material made from HYAFF®, an esterified form of hyaluronic acid
- Indicated for use in the middle and external ear following canalplasty, myringoplasty, tympanoplasty and stapes and mastoid surgery
- Following surgery, it separates mucosal surfaces, helps control minimal bleeding and acts as an adjunct to aid in the natural healing process
- When dry, it is an absorbent, white, non-woven material that behaves like cotton
- When hydrated, it gradually transforms into a gel after approximately 48 hours
- Dissolves from the sinus cavity by two weeks and from the middle ear cavity by six weeks following surgery or may be irrigated from the cavity at any time
- Excess fluids and blood may be suctioned through the material
- Absorbs up to 10x its weight in liquid
- Does not swell or shift

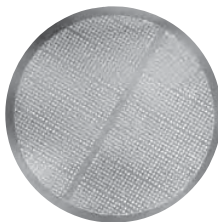
Product	Description	Qty
15-17100	MeroGel Otologic Packing, 1cm x 5cm	1/box
15-17000	MeroGel Nasal Dressing/Sinus Stent and Otologic Packing, 4cm x 4cm	1/box
15-17002	MeroGel Nasal Dressing/Sinus Stent and Otologic Packing, 4cm x 4cm Double Pack	2/box



EpiFilm® Otologic Lamina

- An otologic device made from HYAFF®, an esterified form of hyaluronic acid
- Thin, transparent film scaffolding device with laser micro-perforations that is useful in surgical repairs, such as:
 - Covering exposed ear canal walls
 - Reconstruction of the tympanic membrane when used with fascia or other tissue graft techniques
 - Lining the mastoid cavity
- Designed to aid in the healing process following surgery by facilitating drainage of exudate at the surgical site and serving as a matrix for cell migration
- Typically dissolves in 6-8 weeks

Product	Description	Qty
14-17000	EpiFilm Otologic Lamina, 2.5cm x 2.5cm	1 ea



EpiDisc® Otologic Lamina

- Pre-cut, 8mm spherical discs of EpiFilm material
- Decreases O.R. time necessary for cutting and shaping EpiFilm
- Right size and shape for tympanoplasty procedures

Product	Description	Qty
14-17100	EpiDisc Otologic Lamina, 8mm disc	2/box

Hyaluronic Acid-Based Wound Healing and Packing Products



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EpiDisc® Tympanic Membrane Perforation Patch Kit

- Designed for use during myringoplasty procedures as an adjunct to aid in the healing of tympanic membrane perforations
- Consists of one 8mm EpiDisc matrix device and a 2cm x 2cm square of MeroGel® QuickGel™ Otologic Dressing, a fast-hydrating form of MeroGel

Product	Qty
14-17151 EpiDisc T.M. Perforation Patch Kit	1 ea



Post-Op Packing, Splints and Epistaxis Treatment Products



Packing, MeroGel® hemoX Ear Wicks and Packs
 MeroGel® hemoX Pope Ear Wick119
 MeroGel hemoX Schindler Ear Packing119

Packing, MeroGel® hemoX Nasal Dressings
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Post-Op Packing, Splints and Epistaxis Treatment Products



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PACKING, MEROCEL® HEMOX EAR WICKS AND PACKS

Now with oxidized cellulose, a clinically proven hemostatic agent for controlling postoperative bleeding



Merocel® hemoX Pope Ear Wick

- Wicks designed for treating otitis externa (swimmer's ear)
- Soft, absorbent sponge expands to provide comfort and to help keep antibiotics in contact with the ear canal
- Packs constructed of high density, micropore Merocel sponge with oxidized cellulose

Product	Length	Thickness	Qty
450141	1.5	0.9	50/box



Merocel hemoX Schindler Ear Packing

- Soft, absorbent sponge expands to provide comfort and to help keep antibiotics in contact with the ear canal
- Packs constructed of high-density, micropore Merocel sponge with oxidized cellulose

Product	Length	Thickness	Qty
450355	1.5	1.2	10/box
450356 (Fenestrated)	1.3	0.9	10/box

PACKING, MEROCEL® HEMOX NASAL DRESSINGS

Now with oxidized cellulose, a clinically proven hemostatic agent for controlling postoperative bleeding

Merocel hemoX Standard Nasal Dressing

- Atraumatic removal
- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures



Product	Length	Width	Height	Qty
450400	4.5	1.5	2	10/box
450402	8	1.5	2	10/box

Merocel hemoX Standard Nasal Dressing with Airway

- Atraumatic removal
- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures



Product	Length	Width	Height	Qty
450409	4.5	1.5	2	10/box
450410	8	1.5	2	10/box

All dimensions are approximate and subject to normal manufacturing variance. All measurements are given as centimeters.

Post-Op Packing, Splints and Epistaxis Treatment Products



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PACKING, MEROCEL® HEMOX EPISTAXIS PRODUCTS

Now with oxidized cellulose, a clinically proven hemostatic agent for controlling postoperative bleeding

Merocel hemoX Pope Epistaxis Packing

- Quick, effective method for treating anterior and posterior epistaxis
- Rapid expansion provides gentle, evenly distributed pressure against the tissues to control bleeding, while platelets aggregate on the surface of the pack to enhance clot formation
- Ideal for emergency departments

Product	Length	Width	Height	Qty
450406	10	1.5	2.5	10/box



Merocel hemoX Weimert Epistaxis Packing

- Quick, effective method for treating anterior and posterior epistaxis
- Rapid expansion provides gentle, evenly distributed pressure against the tissues to control bleeding, while platelets aggregate on the surface of the pack to enhance clot formation
- Ideal for emergency departments

Product	Length	Width	Height	Qty
450421	5.5	1.5	2.5	10/box



Merocel hemoX Staxi-Stat® Epistaxis Packing

- Quick, effective method for treating anterior and posterior epistaxis
- Rapid expansion provides gentle, evenly distributed pressure against the tissues to control bleeding, while platelets aggregate on the surface of the pack to enhance clot formation
- Ideal for emergency departments

Product	Description	Qty
450416	w/ Drawstring	10/box



PACKING, MEROCEL® HEMOX DOYLE NASAL DRESSINGS

Now with oxidized cellulose, a clinically proven hemostatic agent for controlling postoperative bleeding

Merocel hemoX Standard Nasal Dressing with Airway

- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures

Product	Description	Length	Width	Height	Qty
450424	Regular	7.7	1.5	3.3	10/box
450413	Slim-Profile	7.7	1	3.3	10/box
450411	w/ Airway	7.7	1.5	3.3	10/box



All dimensions are approximate and subject to normal manufacturing variance. All measurements are given as centimeters.

Post-Op Packing, Splints and Epistaxis Treatment Products



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PACKING, MEROCEL® HEMOX POST-OP SINUS DRESSINGS

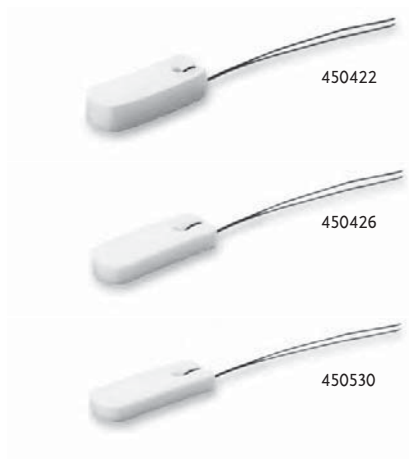
Now with oxidized cellulose, a clinically proven hemostatic agent for controlling postoperative bleeding



Merocel hemoX Baron Sinus-Pak

- Non-clinical laboratory testing has shown a 30% reduction in removal force over other nasal sponges
- Stenting action prevents lateralization of the middle turbinate and aids in the prevention of adhesions
- Absorbs up to 20x its weight in fluids
- Three thicknesses accommodate various nasal anatomies

Product	Description	Length	Width	Height	Qty
450407	Regular	2.5	1.2	2	10pr/box
450531	Ultra-Slim	2.5	0.6	2	10pr/box



Merocel hemoX Kennedy Sinus-Pak

- Non-clinical laboratory testing has shown a 30% reduction in removal force over other nasal sponges
- Stenting action prevents lateralization of the middle turbinate and aids in the prevention of adhesions
- Absorbs up to 10x its weight in fluids
- Three thicknesses accommodate various nasal anatomies

Product	Description	Length	Width	Height	Qty
450422	Regular	3.5	1.2	1.2	10pr/box
450426	Slim-Profile	3.5	0.9	1.2	10pr/box
450530	Ultra-Slim	3.5	0.6	1.2	10pr/box



Merocel hemoX Toffel Slim Profile Sinus-Pak

- Non-clinical laboratory testing has shown a 30% reduction in removal force over other nasal sponges
- Stenting action prevents lateralization of the middle turbinate and aids in the prevention of adhesions
- Absorbs up to 20x its weight in fluids
- Three thicknesses accommodate various nasal anatomies

Product	Length	Width	Height	Qty
450428	4.5	0.9	2	10pr/box

All dimensions are approximate and subject to normal manufacturing variance. All measurements are given as centimeters.

Post-Op Packing, Splints and Epistaxis Treatment Products



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MEROCEL® OTOWICKS AND PACKS

Merocel® Ear Packs, Ambrus

- Expands anatomically to keep the canal open
- Helps to keep antibiotics in contact with the surgical site
- Absorbs postoperative fluids
- May be trimmed to size if required
- Atraumatic removal



Product	Diameter	Length	Qty
400354	15	20	20/box

Merocel Ear Packs, Post-op

- Expands anatomically to keep the canal open
- Helps to keep antibiotics in contact with the surgical site
- Absorbs postoperative fluids
- May be trimmed to size if required
- Atraumatic removal



Product	Diameter	Length	Qty
400162	12	24	10/box

Merocel Ear Packs, Schindler

- Expands anatomically to keep the canal open
- Helps to keep antibiotics in contact with the surgical site
- Absorbs postoperative fluids
- May be trimmed to size if required
- Atraumatic removal



Product	Description	Dia	L	Qty
400355	w/Drawstring	12	15	10/box
400356	w/Drawstring	9	13	10/box
400357	w/Drawstring, Fenestrated	9	13	10/box

Merocel Ear Wicks, Pope

- Ideal for treating otitis externa
- Expands to conform to ear canal when hydrated with otic solutions and local anesthesia



Product	Diameter	Length	Qty
400141	9	15	50/box
425141	9	15	25/box
400146	9	24	10/box
400144	12	24	10/box

Merocel Micro Spheres

- Compressed shape of sponge replaces rolled-up cotton or cellulosic sponges for microsurgery
- Small diameter sponges are easily grasped and placed through the speculum
- Useful for absorption of excess fluids
- Can be used to manipulate tissues as the dry-compressed sponges hydrate in contact with body fluids



Product	Diameter	Thickness	Qty
400150	3	1	100/box
400151	4	1	100/box
400152	5	1.25	100/box

Post-Op Packing, Splints and Epistaxis Treatment Products



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MEROCEL® OTOWICKS AND PACKS



Pope Oto-Wick® (Fenestrated)

- Easily inserted even in cases of canal stenosis
- Expands to distribute medication evenly
- Patented central hole eliminates “plugging” of ear canal
- Made from non-linting, non-adherent MeroGel polymer
- Sterile

Product	Size	Qty
14-25008	15mm	50/box
14-25010	24mm	50/box

MEROGEL® NASAL DRESSING/SINUS STENT AND OTOLOGIC PACKING



MeroGel® Nasal Dressing/Sinus Stent and Otologic Packing

- A hyaluronic acid packing material made from HYAFF®, an esterified form of hyaluronic acid
- Transforms into a transparent gel when placed in nasal or sinus cavity
- Separates mucosal surfaces, helps control minimal bleeding and acts as an adjunct to aid in the natural healing process
- When dry, it is an absorbent, white, non-woven material that behaves like cotton
- Excess fluids and blood may be suctioned through the material
- Absorbs up to 10 times its weight in liquid
- Gradually dissolves after approximately two weeks in the nasal cavity following surgery or may be irrigated from the cavity at any time

Product	Description	Qty
15-17100	MeroGel Otologic Packing, 1cm x 5cm	1/box
15-17000	MeroGel Nasal Dressing/Sinus Stent and Otologic Packing, 4cm x 4cm	1/box
15-17002	MeroGel Nasal Dressing/Sinus Stent and Otologic Packing, 4cm x 4cm Double Pack	2/box

MEROCEL® EPISTAXIS PACKING



Medtronic ENT Epistat® II Nasal Catheter

- Posterior balloon and MeroGel® Sponge combine to help control epistaxis
- Easily adjustable, retaining ring anchors Epistat II in place
- Airway can be removed, leaving sponge in place
- Integral airway allows patient to breathe while catheter is in place

Product	Length	Thickness	Height	Qty
400470	5.5	1.5	2.5	1 ea



Medtronic ENT Epistat II Nasal Catheter Kit

- Posterior balloon and MeroGel sponge helps control epistaxis
- Remains in place regardless of balloon inflation
- Integral airway allows patient to breathe while catheter is in place
- Nasal Catheter Kit includes: Epistat II Nasal Catheter (400470)
One Disposable Syringe
One 4"x4" (10cm x 10cm) Gauze Pad

Product	Description	Qty
400471	Epistat II Kit	1 kit/box

Post-Op Packing, Splints and Epistaxis Treatment Products



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MEROCEL® EPISTAXIS PACKING

Pope Epistaxis Packing

- Unsurpassed patient comfort
- Available with or without drawstring
- Highly absorbent

Product	Description	L	T	H	Qty
400406	w/o String	10	1.5	2.5	10/box
440406	w/String	10	1.5	2.5	10/box

Pope Flex-Pak®

- Flexible epistaxis packing with pinholes and drawstring
- Gentle curves for easy insertion
- For posterior and indeterminate epistaxis

Product	Length	Thickness	Height	Qty
460406	10	1.5	2.5	10/box

Staxi-Stat® Pack

- Ideal for emergency and first-aid use
- Fast and effective nasal packing
- Compressed, it is quickly and easily inserted into the nasal cavity
- Moistened, it expands to fill the contours of the anterior aspect of the nasal cavity
- Fiber-free, deters tissue-in-growth, making removal easy
- Soft, yet strong, non-shedding – will not leave particulate matter in nasal cavity

Product	Description	Qty
400416	w/o String	10pks/box
440416	w/String	10pks/box

Weimert Epistaxis Packing

- Compressed composition, fiber-free; will not shred when trimmed
- Expands to fill the nasal cavity to control anterior and indeterminate epistaxis
- Must rehydrate – atraumatic removal

Product	Description	Length	Thickness	Height	Qty
400421	w/String	5.5	1.5	2.5	20/box



MEROCEL® INTRA-OP PACKING

Kennedy Intranasal Surgical Sponge (KISS) Intra-Op Throat Pack

- Helps prevent blood and cellular debris from entering patient's airway or GI tract
- Compressed for ease of placement
- Expands to conform to posterior nasal cavity

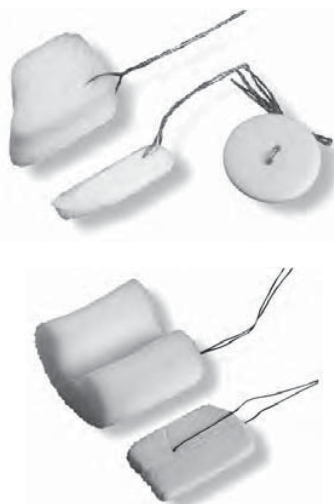
Designed by David Kennedy, MD, Philadelphia, PA

Product	Description	Qty
400515	KISS Pack	10/box

Oro-Pak Intra-Op Throat Pack

- Helps prevent blood from entering the patient's airway or gastrointestinal tract
- Securely conforms to the ET tube
- Surgeon maintains full visualization of the surgical site and room for instrumentation

Product	Description	Qty
400520	Oro-Pak	10/box



All dimensions are approximate and subject to normal manufacturing variance.
All measurements are given as centimeters.

MEROCEL® NASAL ANATOMICAL PACKING



Doyle Nasal Dressing

- Anatomical nasal dressing ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures
- Compressed for easy insertion
- Expands to fill the nasal cavity, providing gentle, equal support

Product	Description	L	T	H	Qty
400424	w/o String	8	1.5	3	10/box
440424	w/String	8	1.5	3	10/box



Doyle Dressing with Airway Tube

- Compressed for easy insertion
- Expands to fill the nasal cavity, providing gentle, equal support
- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures

Product	Description	L	T	H	Qty
400411	w/o String	8	1.5	3	10/box
440411	w/String	8	1.5	3	10/box



Doyle Slim-Line Dressing

- Compressed for easy insertion
- Expands to provide gentle, equal support
- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures

Product	Description	L	T	H	Qty
400413	w/o String	8	1	3	10/box
440413	w/String	8	1	3	10/box



Doyle Nasal Pack, Pediatric

- Compressed for easy insertion, expands to provide gentle, equal support
- Atraumatic removal
- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures

Product	Description	L	T	H	Qty
400412	w/o String	5.5	1	2.5	20/box
440412	w/String	5.5	1	2.5	10/box

*All dimensions are approximate and subject to normal manufacturing variance.
All measurements are given as centimeters.
L = Length T = Thickness H = Height*

Post-Op Packing, Splints and Epistaxis Treatment Products



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MEROCEL® NASAL STANDARD PACKING

Merocel Standard Dressing, 4.5cm

- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures
- Expands to fill the nasal cavity, providing gentle, equal support

Product	Description	L	T	H	Qty
400400	w/o String	4.5	1.5	2	20/box
440400	w/String	4.5	1.5	2	10/box



Merocel Standard Dressing, 8cm

- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures
- Expands to fill the nasal cavity, providing gentle, equal support
- Product 400403 is singly compressed, as compared to the double compression of products 400402 and 440402

Product	Description	L	T	H	Qty
400402	w/o String	8	1.5	2	20/box
400403	w/o String single compression	8	1.5	2	20/box
440402	w/String	8	1.5	2	10/box



Merocel Standard Dressing with Airway Tube, 4.5cm

- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures
- Compressed for easy insertion
- Expands to fill the nasal cavity, providing gentle, equal support

Product	Description	L	T	H	Qty
400409	w/o String	4.5	1.5	2	20/box
440409	w/String	4.5	1.5	2	10/box



Merocel Standard Dressing with Airway Tube, 8cm

- Ideal for use following septoplasty, rhinoplasty, turbinectomy and other intranasal procedures
- Compressed for easy insertion
- Expands to fill the nasal cavity, providing gentle, equal support

Product	Description	L	T	H	Qty
400410	w/o String	8	1.5	2	20/box
400405	w/o String single compression	8	1.5	2	20/box
440410	w/String	8	1.5	2	10/box



All dimensions are approximate and subject to normal manufacturing variance.
All measurements are given as centimeters.

MEROCEL® SINUS PACKING



Merocel Baron Sinus-Pak

- Helps prevent lateralization of the middle turbinate during the critical postoperative period
- High density Merocel sponge with small pore size
- Safe, biocompatible material
- Will not shred when trimmed
- Compressed for easy insertion

Product	Description	Length	Thickness	Height	Qty
400407	w/String, Regular	2.5	1.2	2	10pr/box
400427	w/String, Slim-Profile	2.5	0.9	2	10pr/box
400531	w/String, Ultra-Slim Profile	2.5	0.6	2	10pr/box



Merocel Kennedy Sinus-Pak

- Helps prevent lateralization of the middle turbinate during the critical postoperative period
- High density Merocel sponge with small pore size deters tissue ingrowth
- Safe, biocompatible material
- Will not shred when trimmed
- Compressed for easy insertion

Product	Description	Length	Thickness	Height	Qty
400422	w/String, Regular	3.5	1.2	1.2	10pr/box
400426	w/String, Slim-Profile	3.5	0.9	1.2	10pr/box
400530	w/String, Ultra-Slim Profile	3.5	0.6	2	10pr/box



Toffel Sinus-Pak Kit with Airway Tube

- Fully meets the needs of the surgeon following functional endoscopic sinus surgery
- High density, small pore size sinus pack
- Low density, highly absorbent nasal dressing
- Kit contains:
 - Sinus-Pak (4.5cm L x 1.3cm T x 2.0cm H)
 - Nasal Dressing (7.5cm L x 1.5cm T x 3.5cm H)
 - Airway Tube (8cm L)

Product	Description	Qty
400423	Toffel Sinus-Pak	10kits/box



Toffel Slim-Profile Sinus-Pak

- Helps prevent lateralization of the middle turbinate during the critical postoperative period
- Safe, biocompatible material
- Will not shred when trimmed

Product	Description	Length	Thickness	Height	Qty
400428	Slim-Profile	4.5	0.9	2.0	10pr/box
400532	Ultra-Slim Profile	4.5	0.6	2.0	10pr/box

Post-Op Packing, Splints and Epistaxis Treatment Products



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MEROCEL 2000® NASAL PACKING

MeroCel 2000 Nasal Packing, 4.5cm

- Non-stick for atraumatic removal
- Clears clots and debris during removal, leaving a clean, open cavity
- Will not shred when trimmed
- Safe, biocompatible material
- Compressed for easy insertion

Product	Description	Length	Thickness	Height	Qty
470401	w/String	4.5	1.5	2.0	10/box



MeroCel 2000 Nasal Packing, 8cm

- Non-stick for atraumatic removal
- Clears clots and debris during removal, leaving a clean, open cavity
- Will not shred when trimmed
- Safe, biocompatible material
- Compressed for easy insertion

Product	Description	Length	Thickness	Height	Qty
470404	w/String	8	1.5	2.0	10/box



MeroCel 2000 Nasal Packing with Airway, 4.5cm

- Non-stick for atraumatic removal
- Clears clots and debris during removal, leaving a clean, open cavity
- Will not shred when trimmed
- Safe, biocompatible material
- Compressed for easy insertion

Product	Description	Length	Thickness	Height	Qty
470408	w/String	4.5	1.5	2.0	10/box



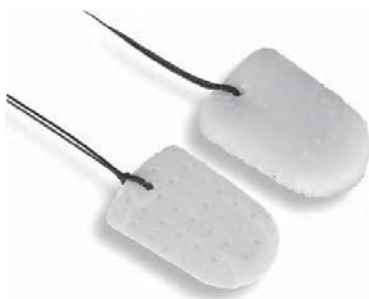
MeroCel 2000 Nasal Packing with Airway, 8cm

- Non-stick for atraumatic removal
- Clears clots and debris during removal, leaving a clean, open cavity
- Will not shred when trimmed
- Safe, biocompatible material
- Compressed for easy insertion

Product	Description	Length	Thickness	Height	Qty
470405	w/String	8.0	1.5	2.0	10/box



MEROCEL 2000® SINUS PACKING



Merocel 2000 Laminated Baron SinusStent® Dressing

- Laminated with polyethylene for a smooth, non-stick surface
- High density, small pore sponge deters tissue ingrowth
- Helps prevent lateralization of the middle turbinate during critical postoperative period
- Will not shred when trimmed; compressed for easy insertion
- Safe, biocompatible material

Product	Description	Length	Thickness	Height	Qty
470531	w/String, Ultra-Slim Profile	2.5	0.6	2	10pr/box



Merocel 2000 Laminated Kennedy SinusStent Dressing

- Laminated, non-stick dressing for atraumatic removal
- Deters tissue ingrowth
- Helps prevent lateralization of the middle turbinate during critical postoperative period
- Will not shred when trimmed; compressed for easy insertion

Product	Description	Length	Thickness	Height	Qty
470530	w/String, Ultra-Slim Profile	3.5	0.6	1.2	10pr/box

FRONTAL SINUS STENT

Parrell Frontal Sinus T-Stent

- Postoperative drainage stent for use after frontal sinus surgery
- Classic T-shape to facilitate drainage
- Medical grade radiopaque C-Flex material provides smooth surface to help reduce encrusting and excessive granulation

Developed in conjunction with G. Joseph Parrell, MD



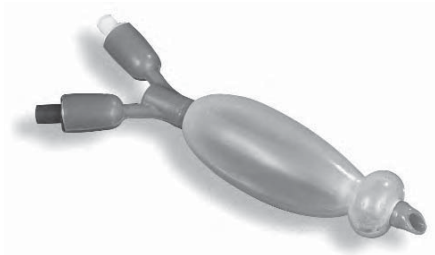
Product	Description	Qty
15-15000	Parrell Frontal Sinus T-Stent	6/box

Post-Op Packing, Splints and Epistaxis Treatment Products



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EPISTAXIS, BALLOON CATHETER



Medtronic ENT Epistat® Nasal Catheter

- Two independently inflatable cuffs for precise control of intranasal bleeding
- Hollow catheter allows nasal breathing
- Silicone construction helps prevent clot adhesion
- Beveled posterior tip and gentle curve of catheter facilitate placement

Product	Description	Qty
15-27031	Silicone Epistaxis	1 ea



Medtronic ENT Epistat Nasal Catheter Kit

- Two independently inflatable cuffs for precise control of intranasal bleeding
- Silicone construction helps prevent clot adhesion
- Beveled posterior tip and gentle curve of catheter facilitate placement
- Kit includes: Epistat Nasal Catheter (15-27031), Syringe, Gauze and Instructions

Product	Description	Qty
15-27030	Silicone Epistaxis Kit	1 ea



Nasal Postpac

- Comfortable and effective silicone nasal pack for treatment of posterior nose bleeds
- Designed to draw blood and fluid from critical areas during intranasal surgery
- Five suction holes allow complete aspiration

Designed by Richard L. Goode, MD, Palo Alto, CA

Product	Description	Qty
15-26800	Silicone	5/box

Post-Op Packing, Splints and Epistaxis Treatment Products



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IRRIGATION

Maxillary Sinus Irrigation Kit

- A self-contained, single-use system for maxillary sinus lavage for diagnosis or therapy
- For inferior meatus or canine fossa puncture technique
- Kit contains:
 - 60cc Syringe
 - Flexible Extension Tube
 - Disposable Trocar/Cannula
 - Patient Drape
 - Collection Bag
 - Integral Solution Trough In Tray



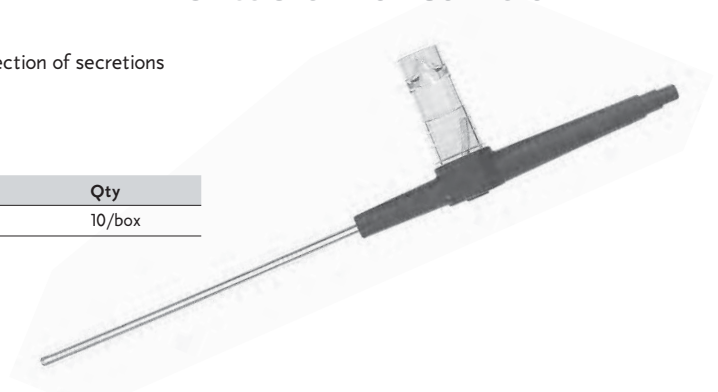
Product	Description	Qty
15-26000	Sinus Irrigation Kit	1 kit/box

Tami Sinus Secretion Collector

- Sterile, disposable aspirator and specimen collector
- Malleable blunt-tipped catheter with protective sheath allows collection of secretions directly from the natural ostium
- Can be shaped to access collection site

Developed in conjunction with Thomas A. Tami, MD

SINUS SECRETION COLLECTOR



Product	Description	Qty
15-14000	Sinus Secretion Collector	10/box

Bridgmaster® Nasal Splints, Large and Small

- Articulated nasal splint's flexible aluminum stabilizer easily adjusts inward to help achieve optimal modeling and exceptional supratip definition
- Maintains uniform compression on lateral walls, supratip region and dorsum
- Segmented foam pads virtually eliminate "skin bunching"

EXTERNAL NASAL SPLINTS



Product	Description	Qty
600302	Small Splint	5/box
600306	Large Splint	5/box

External Nasal Splint Kit

- Fast, easy-to-apply
- Lightweight aluminum lined with a thin layer of foam rubber, molds to any size and shape
- Strong, water-resistant adhesive
- Kit includes:
 - Skin Prep
 - Alcohol Prep
 - Steri-Strips



Product	Description	Qty
15-28116	Small	5 kits/box
15-28126	Medium	5 kits/box
15-28136	Large	5 kits/box

EXTERNAL NASAL SPLINTS

External Nasal Splints

- Fast, easy-to-apply
- Nasal splints cosmetically superior to plaster
- Lightweight aluminum lined with a thin layer of foam rubber, molds to any size and shape, yet rigid once positioned
- Strong, water-resistant adhesive



Product	Description	Qty
15-28110	Single, Small	25/box
15-28111	Single, Small	5/box
15-28120	Single, Medium	25/box
15-28121	Single, Medium	5/box
15-28137	Single, Large	25/box
15-28138	Single, Large	5/box

Murphy Nasal Splints

- Gel material allows splint to maintain gap-free interface between patient's skin and splint
- 0.5mm center ridge under the gel provides pressure
- Utilizes an aluminum-strength wafer that is much thinner than conventional foam splints
- No additional adhesive required



Product	Description	Qty
15-39000	External, Small	5/box
15-39010	External, Medium	5/box
15-39020	External, Large	5/box

Thermasplint Kits

- External nasal splint made of a thermoplastic material
- Placing splint in 170° water makes it soft and pliable – readily conforms to patient's nose
- Rigid once positioned
- Utilizes an aluminum-strength wafer that is 25% thinner than conventional foam splints
- Kit includes: Skin Prep
Alcohol Prep
Steri-Strips



Product	Description	Qty
15-29100	Small	5 kits/box
15-29110	Medium	5 kits/box
15-29120	Large	5 kits/box

Thermasplint Singles

- External nasal splint made of a thermoplastic material
- Placing splint in 170° water makes it soft and pliable – readily conforms to patient's nose
- Rigid once positioned



Product	Description	Qty
15-29000	Small	10/box
15-29010	Medium	10/box
15-29020	Large	10/box

Splint size dimensions for external, Murphy and Thermasplint nasal splints:
 Small - 2.25" x 1.25" (width x height)
 Medium - 2.38" x 1.53"
 Large - 2.63" x 1.73"

Post-Op Packing, Splints and Epistaxis Treatment Products



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INTERNAL NASAL SPLINTS

Boomerang® Turbinate Glove and Septal Splint

- Minimizes lateral and medial adhesions
- Minimizes obstruction
- Simple insertion and removal

Product	Description	Qty
600500	Splint	5 pr/box



Doyle II Intranasal Airway Splints

- Integral airway allows nasal breathing post-op
- Medical grade silicone for ease of insertion, removal and increased patient comfort
- Hole in anterior tip allows suturing through septum to aid in stabilization and eliminates posterior dislodgement

Product	Description	Qty
15-24050	Silicone	5 pr/box
15-24055	Silicone	1 pr/box



Doyle Bi-Valve Septal Splint

- Firmer than silicone, not as stiff as fluoroplastic
- Enhanced smoothness of C-Flex helps discourage granulation, tissue formation and crusting

Product	Description	Qty
15-24075	C-Flex	1 pr/box



Goldsmith Inflatable Airway Splint

- Inflatable cuff for control of intranasal bleeding
- Integral airway allows nasal breathing postoperatively
- Medical grade silicone for ease of insertion, removal and increased patient comfort

Designed by Manning Goldsmith, III, MD, Savannah, GA

Product	Description	Qty
15-24060	Silicone	1 pr/box



Goode Magne-Splint

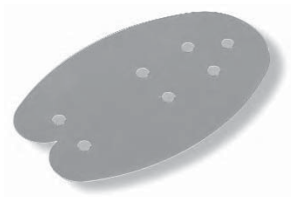
- Powerful Cobalt-Samarium magnets ensure firm but gentle compression
- Medical grade silicone for comfort, ease of insertion and removal
- Reduces or eliminates need for intranasal packing
- Pre-attached string prevents posterior dislodgement

Designed by Richard L. Goode, MD, Palo Alto, CA

Product	Description	Qty
15-16000	Regular	1 pr/box
15-16010	Large	1 pr/box



INTERNAL NASAL SPLINTS

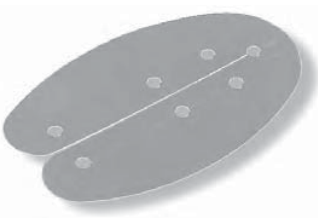


Reuter Oversize, No Split

- Pre-punched holes for easier suturing

Designed by S. Harold Reuter, MD, Houston, TX

Product	Description	Qty
15-27020	Fluoroplastic, Thick 0.5mm	5 pr/box
15-27025	Fluoroplastic, Thin 0.25mm	5 pr/box



Reuter Oversize, Thin and Thick

- Popular intranasal septal splint
- Constructed of fluoroplastic to discourage crust formation
- Pre-punched holes for easier suturing
- Slit for ease of insertion and removal

Designed by S. Harold Reuter, MD, Houston, TX

Product	Description	Qty
15-27010	Fluoroplastic, Thin 0.25mm	5 pr/box
15-27015	Fluoroplastic, Thick 0.5mm	5 pr/box



Reuter Standard, Thin and Thick

- Popular intranasal septal splint
- Constructed of fluoroplastic to discourage crust formation
- Pre-punched holes for easier suturing
- Slit for ease of insertion and removal

Designed by S. Harold Reuter, MD, Houston, TX

Product	Description	Qty
15-27000	Fluoroplastic, Thin 0.25mm	5 pr/box
15-27005	Fluoroplastic, Thick 0.5mm	5 pr/box



Silicone Splint

Product	Description	Length	Thickness	Height	Qty
400561	Firm, yet flexible silicone	75mm	25mm	1mm	5 pr/box



Silicone Splint Kit

- Septal splint folds for easy insertion
- Kit includes: 2 Silicone Septal Splints (400561) and 2 Meroceel Nasal Packs

Product	Description	Qty
400562	Silicone Splint Kit Firm, yet flexible silicone	5 kits/box

All dimensions are approximate and subject to normal manufacturing variance.

Post-Op Packing, Splints and Epistaxis Treatment Products



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INTERNAL NASAL SPLINTS

Simple Splint

- Simple, inexpensive fluoroplastic splint, easily trimmed to fit by surgeon or nurse

Product	Description	Length	Thickness	Height	Qty
15-22000	Fluoroplastic	2.75" 7cm	0.02" 0.5cm	1.75" 4.4cm	10 pr/box



NASAL SEPTAL BUTTONS

Nasal Septal Button

- For outpatient procedures
- Shown to reduce or eliminate crusting, epistaxis and other symptoms of septal perforations
- Medical silicone construction for maximum compatibility

Reference: Kern, E.B., Facer, G.W., McDonald, T.J., Westwood, W.B. "Closure of Nasal Septal Perforations with a Silastic Button, Results in 45 Patients." *ORL Digest*, Vol. 39, July, 1977.

Product	Description	Qty
15-24105	Medical Silicone, 3cm diameter	1/box



Two-Part Adjustable Septal Button

- For non-surgical closure of nasal septal perforations – outpatient procedures
- Two-part button facilitates insertion
- Shown to reduce or eliminate crusting, epistaxis and other symptoms of septal perforations
- Medical silicone construction for maximum compatibility

Designed by Manning Goldsmith, III, MD, Savannah, GA

Product	Description	Qty
15-24110	Medical Silicone, 3cm diameter	1/box



All dimensions are approximate and subject to normal manufacturing variance.

Post-Op Packing, Splints and Epistaxis Treatment Products



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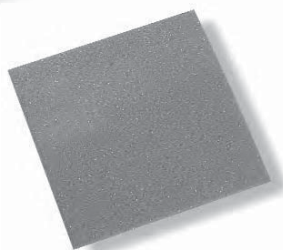
SPECIALTY SURGICAL PRODUCTS



Merocel® Surgical Headband

- Allows the O.R. staff to remain dry and cool
- Headband is fiber-free, hypoallergenic, and highly absorbent
- Soft, extremely comfortable to wear
- Durable elastic band assures proper and comfortable fit for all sizes

Product	Description	Qty
400450	Headband, Non-Sterile	10/box



Instrument Wipes

- Removes fluid and debris from delicate instruments

Product	Description	Qty
22-18525	3.5" x 3.5" (8.9cm x 8.9cm)	25/box
22-18530	3.5" x 3.5", Adhesive-backed (8.9cm x 8.9cm)	25/box



Merocel Instrument Wipes

- Removes fluid and debris from delicate instruments
- Soft, non-scratch, lint-free Merocel sponge
- 4" (10cm) wipe (22-18535) features an X-ray detectable element

Product	Description	Qty
400300	8cm x 8cm	20/box
22-18535	10mm x 10mm	50/box



Micro-Grid Silicone Metric Ruler

- Metric scale background
- Radiopaque medical grade silicone
- Sterile

Product	Description	Qty
40-22800	Green, 30mm x 15mm x 0.4mm w/1mm squares	10/box
40-22805	Blue, 30mm x 15mm x 0.4mm w/1mm squares	10/box



Gore™ Thyroplasty Device

- Designed to improve voice quality for patients with unilateral vocal cord paralysis
- Soft, inert, non-allergenic ePTFE ensures minimum host tissue reactivity
- Implant is not rejected by the body and does not degrade or resorb

Product	Nominal Thickness	Nominal Width x Length	Qty
1MTD201*	0.6mm	0.75cm x 40cm	1 ea
1MTD202	0.6mm	0.4cm x 20cm	1 ea
1MTD203	0.6mm	0.6cm x 20cm	1 ea

* 1MTD201 (40 cm) is a split-portion configuration which unfolds and extends to the full specified length.

All dimensions are approximate and subject to normal manufacturing variance.
All measurements are given as centimeters or millimeters.

Post-Op Packing, Splints and Epistaxis Treatment Products



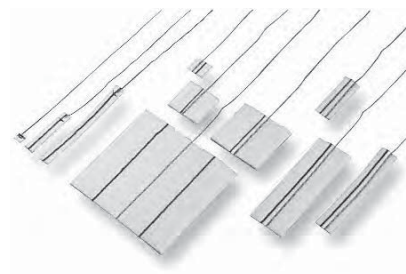
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SPECIALTY SURGICAL PRODUCTS

Merocel® Surgical Patties and Strips

- Made of soft and absorbent, fiber-free Merocel sponge
- Does not shed into the operative site
- Holds more liquid than cottonoids
- X-ray detectable
- Offers excellent conformability to tissue surface
- 10 per packet, 10 packets per box

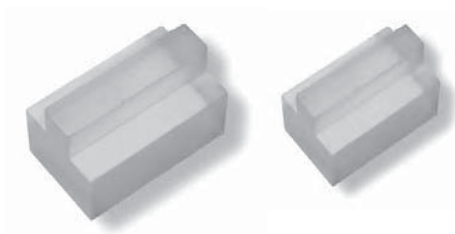
Product	Size	Qty
300501	0.5" x 0.5" 1.3cm x 1.3cm	100/box
300503	0.5" x 1" 1.3cm x 2.5cm	100/box
300505	0.5" x 2" 1.3cm x 5cm	100/box
300506	0.5" x 3" 1.3cm x 7.6cm	100/box
300507	1" x 1" 2.5cm x 2.5cm	100/box
300509	1" x 2" 2.5cm x 5.1cm	100/box
300510	1" x 3" 2.5cm x 7.6cm	100/box
300514	3.25" x 3.25" 8.3cm x 8.3cm	100/box
300515	0.25" x 3" 0.7cm x 7.6cm	100/box



Silicone Strip

- For use as an implant material to aid in surgical repairs and augmentation in ENT and reconstructive head and neck surgery
- May be cut and trimmed during procedures to meet individual needs
- Hardness and consistency allow for convenient shaping
- Non-sterile

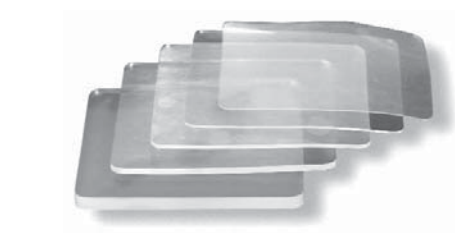
Product	A	B	C	D	Qty
15-32600	4.5mm	9mm	20mm	12.5mm	1 ea



Medtronic ENT Silicone Sheeting

- Sheets are made of biocompatible silicone elastomer
- Sheets can be cut and trimmed, as needed, during procedures

Product	Thickness	Qty
15-32500	2" x 2" x .010" 5cm x 5cm x .25mm	10/box
15-32505	2" x 2" x .005" 5cm x 5cm x .13mm	10/box
15-32510	2" x 2" x .020" 5cm x 5cm x .5mm	10/box
15-32520	2" x 2" x .040" 5cm x 5cm x 1mm	10/box
15-32530	2" x 2" x .062" 5cm x 5cm x 1.6mm	10/box
15-32540	2" x 2" x .125" 5cm x 5cm x 3.2mm	10/box



All dimensions are approximate and subject to normal manufacturing variance.
All measurements are given as centimeters or millimeters.

Endotracheal Tubes and Other Anesthesia-Related Products

Endotracheal Tubes and Other
Anesthesia-Related Products



Endotracheal Tubes and Other Anesthesia-Related Products

Intubation Stylets, Lighted

Tube-Stat® Lighted Intubation Stylets, Naso-Tracheal and Oro-Tracheal142
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Jet Ventilation

Hunsaker Mon-Jet Ventilation Tube141
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Laryngeal Injectors

Cannula, Oro-Tracheal Injector, Curved142
Oro-Tracheal Injector142
Oro-Tracheal Laryngeal Injector Needles142
Oro-Tracheal® Laryngeal Injector Set142

ENDOTRACHEAL TUBES, LASER-RESISTANT



Laser-Shield® II Endotracheal Tube

- Laser-resistant
- Tested for use with CO₂ and KTP lasers
- Mechanically wrapped for reliable consistency
- Reflective aluminum wrap with smooth fluoroplastic overwrap for atraumatic intubation
- Methylene blue is present in the inflation valve to provide immediate detection of inadvertent cuff rupture
- All tubes listed are cuffed

Product	ID	OD	FR	Qty
70-60100	4.0	6.6	20	1 ea
70-60150	4.5	7.3	22	1 ea
70-60200	5.0	8.0	24	1 ea
70-60500	8.0	11.5	35	1 ea
70-60300	6.0	9.0	27	1 ea
70-60350	6.5	10.0	30	1 ea
70-60400	7.0	10.5	31	1 ea
70-60450	7.5	11.0	33	1 ea
70-60250	5.5	8.6	26	1 ea

JET VENTILATION

Hunsaker Mon-Jet Ventilation Tube

- Laser-compatible subglottic jet ventilation tube
- For use with CO₂, Nd:YAG, Argon and Holmium lasers
- Flexible, combustion-resistant fluoroplastic construction
- Integral monitor line for monitoring airway pressure and CO₂
- Distal fitting designed to center the tube to reduce risk of mucosal injury
- 3mm OD provides low profile for maximum visualization in narrowed airways
- Ideal for papilloma surgery



Product	Description	Qty
70-80100	Mon-Jet Ventilation Tube	1 ea

All dimensions are approximate and subject to normal manufacturing variance.
All measurements are given as either centimeters or millimeters
ID = Inner Diameter OD = Outer Diameter FR = French

Endotracheal Tubes and Other Anesthesia-Related Products



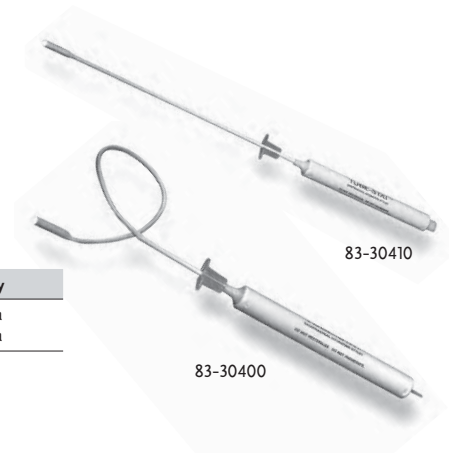
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INTUBATION STYLETS, LIGHTED

Tube-Stat® Lighted Intubation Stylets, Naso-Tracheal and Oro-Tracheal

- Ideal for difficult intubations
- Excellent for teaching intubation techniques
- Minimizes neck flexion and head hyperextension in trauma cases
- Flexible shaft, protective coating over bulb housing, and on/off switch on handle
- Sterile

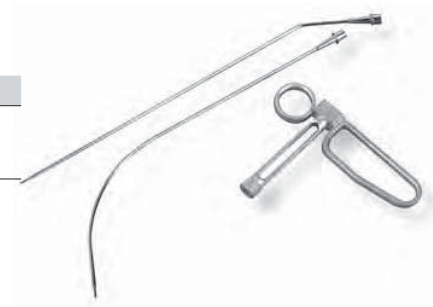
Product	Description	Qty
83-30410	Naso-tracheal 33cm shaft	1 ea
83-30400	Oro-tracheal 25cm shaft	1 ea



LARYNGEAL INJECTORS

Oro-Tracheal® Laryngeal Injector Set

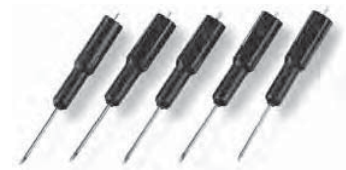
Product	Description	Qty
16-50000	Oro-Tracheal Injector Set	1/box
16-50025	Oro-Tracheal Injector	1/box
16-50050	Injector Needles	5/box



Oro-Tracheal Laryngeal Injector Needles

- Small, 27 gauge, 8mm length
- Packaged sterile

Product	Description	Qty
16-50050	Injector Needles	5/box



Cannula, Oro-Tracheal Injector, Curved

Product	Description	Qty
16-50030	Cannula, Oro-Tracheal Injector, Curved	1/box

Item available but not shown.

Oro-Tracheal Injector

Product	Description	Qty
16-50000	Oro-Tracheal Injector, Includes Straight and Curved Cannula	1/box

Item available but not shown.

Meniett® Ménière's Disease Therapy Device



Meniett® Ménière's Disease
Therapy Device

Meniett® Low Pressure Pulse Generator
Ménière's Disease Therapy Device

Meniett Low-Pressure Pulse Generator	
– Continental Europe SSK145
Meniett Low-Pressure Pulse Generator – UK SSK145
Meniett Low-Pressure Pulse Generator145

Meniett® Low-Pressure Pulse Generator Ménière's Disease Therapy Device

The Meniett® Low-Pressure Pulse Generator is a safe, simple, and effective treatment for the symptoms of Ménière's Disease. Numerous studies indicate that low-pressure treatment is recommended after medical therapy fails and before surgical or destructive treatment is considered.¹⁻⁶

For a few minutes each day, patients self-administer this treatment that is:

- **Safe.** Minimally invasive, non-destructive, painless
- **Simple.** Small, portable; allows use at home or work
- **Effective.** Vertigo symptoms and functionality levels improve significantly in 67 percent of patients who use it as prescribed⁴

The Meniett device delivers computer controlled low-pressure air pulses through a tube connected to an earpiece the patient holds in the outer ear. The pressure pulses are transmitted to the middle ear space through a tympanostomy tube, which must be inserted in the affected ear before Meniett therapy begins.

It is believed that the low-pressure pulses displace the excess inner fluid, normalizing the pressure within the ear and helping to relieve the symptoms of Ménière's Disease. For more information, visit www.meniett.com.



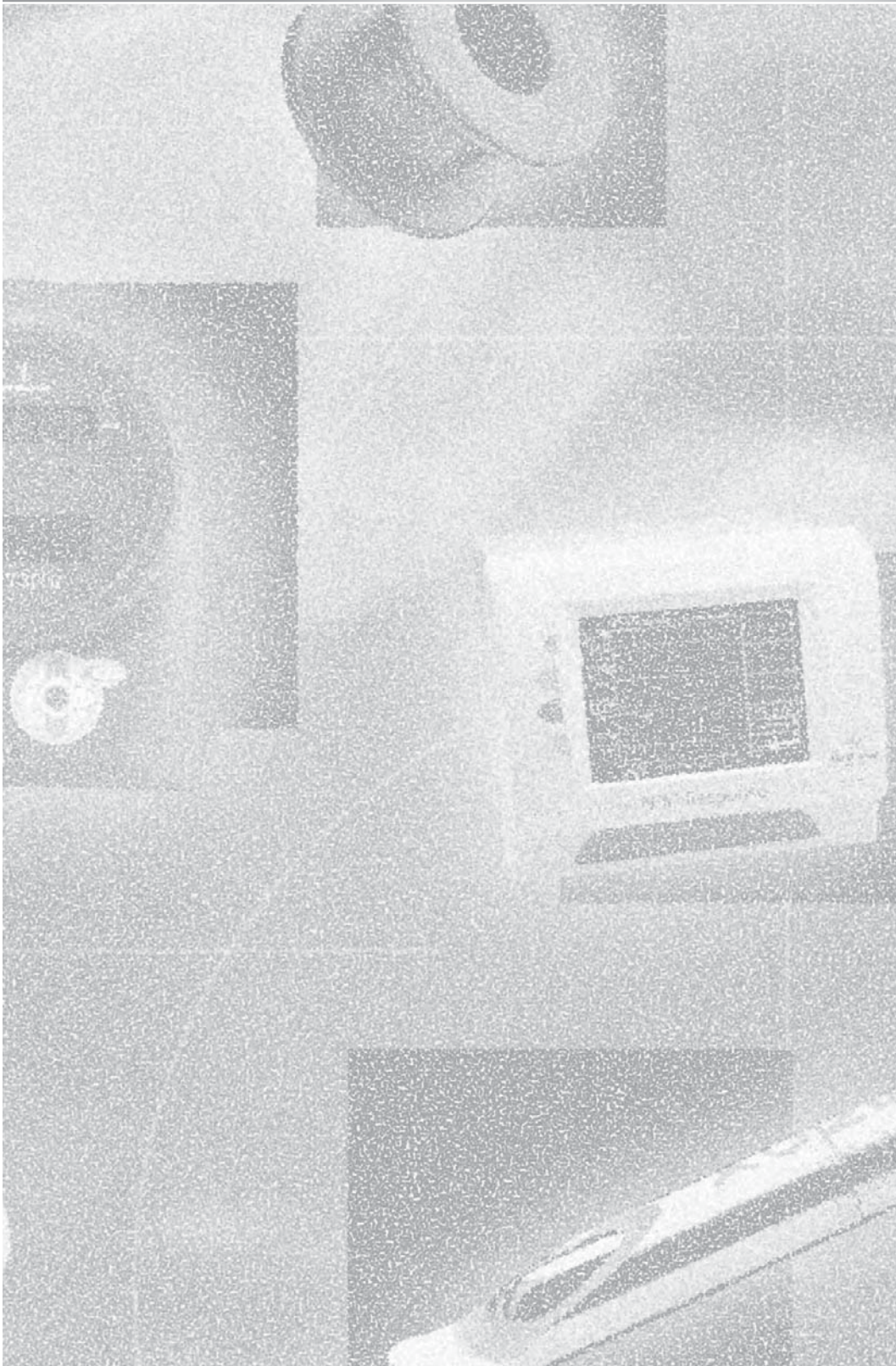
Meniett® Ménière's Disease
Therapy Device

Product		Qty
1010020111	Meniett Low-Pressure Pulse Generator – Continental Europe SSK	1
1010020211	Meniett Low-Pressure Pulse Generator – UK SSK	1
1010020601	Meniett Low-Pressure Pulse Generator	1
Additional Items		
1010021040	Meniett Earplug, Grey, 11mm	12 per bag
1010021041	Meniett Earplug, Red, 12.5mm	12 per bag
1010021042	Meniett Earplug, Green, 14mm	12 per bag
1010021043	Meniett Earplug, Blue, 16mm	12 per bag
1010021044	Meniett Earplug, Grey, 18mm	12 per bag
1010021045	Meniett Earplug, Clear, 19mm	12 per bag
1010021005	Meniett Battery Pack, 9.6VDC	1 each
1010021006	Meniett Earplug Connector	1 each
1010021015	Meniett Carrying Case	1 each
1010021022	Meniett Power Cord – Continental Europe	1 each
1010021023	Meniett Power Cord – U.K. and Ireland	1 each
1010021024	Meniett Power Cord – North America	1 each
1010021025	Meniett Power Cord – Australia and New Zealand	1 each
1010021027	Meniett Power Cord – Japan (for sale in Japan only)	1 each
1010021008	Meniett Power Supply	1 each
1010021016	Meniett User Guide, Continental Europe	1 each
1010021017	Meniett User Guide, United Kingdom	1 each
1010021018	Meniett User Guide, North America	1 each
1010021019	Meniett User Guide, United States	1 each



1. Gates GA, Verrall A, Green, Jr. JD, Tucci DL, Telian SA. Meniett clinical trial: long-term follow-up. *Arch Otolaryngol Head Neck Surg.* 2006;132:1311-1316.
2. Rajan GP, Din S, Atlas MD. Long-term effects of the Meniett device in Ménière's Disease: the Western Australian experience. *J Laryngol Otol.* 2005;119:391-395.
3. Thomsen J, Sass K, Ödkvist L, Arlinger S. Local over-pressure treatment reduces vestibular symptoms in patients with Ménière's Disease: a clinical, randomized, multicenter, double-blind, placebo-controlled study. *Otol Neurotol.* 2005;26:68-73.
4. Gates GA, Green, Jr. JD, Tucci DL, Telian SA. The effects of transtympanic micropressure treatment in people with unilateral Ménière's Disease. *Arch Otolaryngol Head Neck Surg.* 2004;June:130(6): 718-725.
5. Gates GA, and Green, Jr. JD. Intermittent pressure therapy of intractable Ménière's Disease using the Meniett device: a preliminary report. *The Laryngoscope.* 2002;112:1489-1493.
6. Densert B, and Sass K. Control of symptoms in patients with Ménière's Disease using middle ear applications: two years follow-up. *Acta Otolaryngol (Stockh).* 2001;121:616-621.

Medtronic ENT Instruments



Head and Neck Instruments

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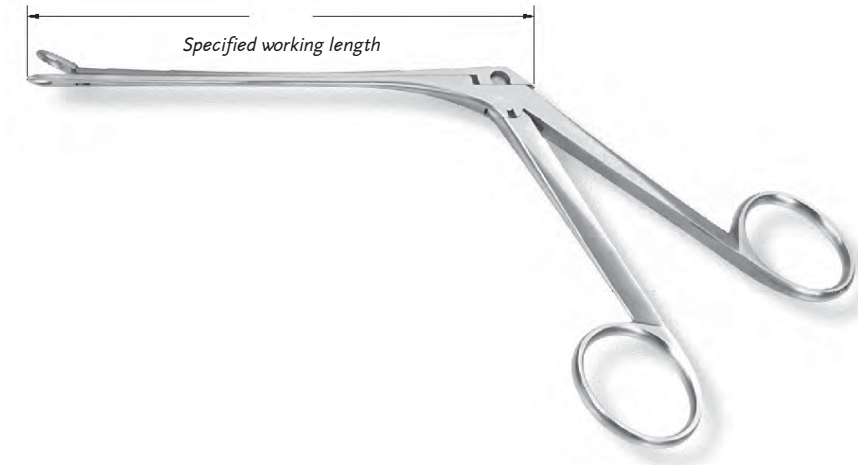
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MEASUREMENT STANDARDS AND CONVERSIONS

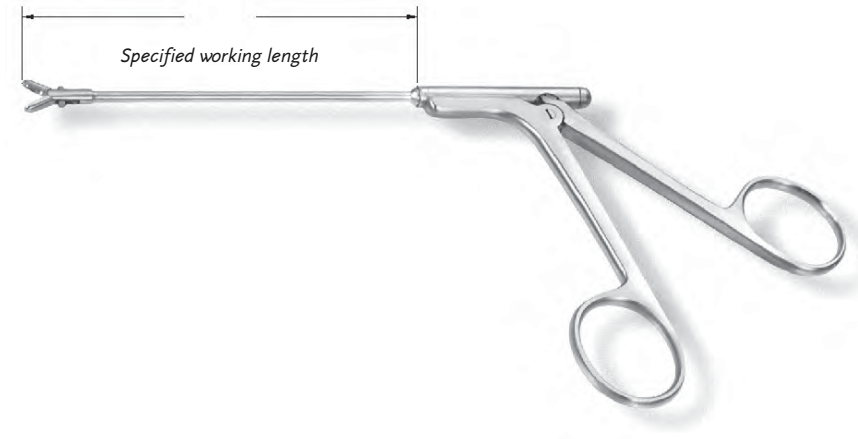
FORCEP MEASURING GUIDE

The dimensions given correspond to the following forcep measurements:

External Mechanism Forceps



External Mechanism Forceps



Through-cutting Forceps



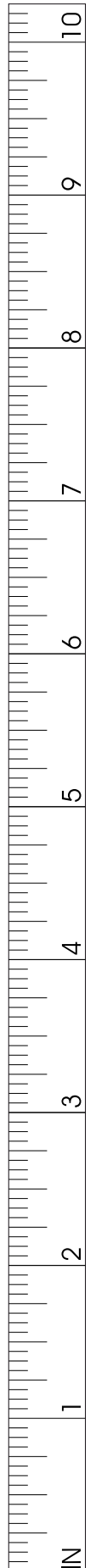
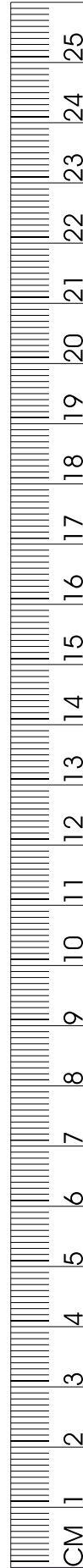
Spoon- or Cup-style Forceps



Grasping Forceps



Additional measurement guides on next page.



MEASUREMENT STANDARDS AND CONVERSIONS

French Suction Scale

NO. SIZE	MM	INCHES	ACTUAL SIZE
3	1.0	0.040	○
4	1.4	0.054	○
5	1.7	0.066	○
6	2.0	0.079	○
7	2.3	0.091	○
8	2.7	0.107	○
9	3.0	0.119	○
10	3.3	0.131	○
11	3.7	0.147	○
12	4.0	0.159	○
13	4.3	0.171	○
14	4.7	0.187	○
15	5.0	0.199	○
16	5.3	0.210	○
17	5.7	0.226	○
18	6.0	0.238	○
19	6.3	0.250	○
20	6.7	0.266	○
22	7.3	0.290	○
24	8.0	0.318	○
26	8.7	0.345	○
28	9.3	0.369	○
30	10.0	0.397	○
32	10.7	0.425	○
34	11.3	0.449	○

Needle Tubing Equivalents

SIZE GAUGE NO.	APPROX. MM	O.D. IN
26	0.4	.018
24	0.5	.022
22	0.7	.028
20	0.9	.035
18	1.3	.053
16	1.6	.065
14	2.1	.083
12	2.8	.109
10	3.4	.134
8	4.2	.165
6	5.1	.203

HEAD AND NECK INSTRUMENTS

Netterville Thyroplasty Instrument Set

- Includes five instruments designed to facilitate measurement, elevation and dissection of tissue in laryngeal surgery
- Aids in preparation of surgical site and medialization material in augmentation of laryngeal tissues

Product

70-60000 Netterville Thyroplasty Instrument Set

Set includes:

- 70-60111 Silicone Strip Holder
- 70-60112 Long Elevator
- 70-60113 Netterville Double-Ended Elevator
- 70-60114 Window Template
- 70-60115 Measuring Probe
- 70-60116 Instrument Tray



Netterville PhonoForm® Silicone Blocks

- Pre-formed silicone blocks in three unique shapes for vocal cord medialization and laryngeal augmentation procedures
- Molded-in millimeter markings assist the surgeon in trimming and shaping for the correct amount of augmentation for each

Product

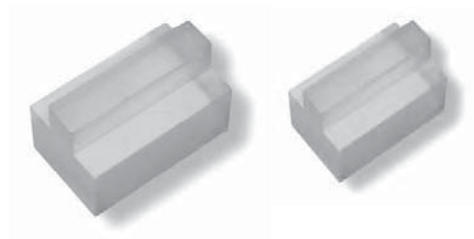
- 70-40100 PhonoForm Block, Right
- 70-40200 PhonoForm Block, Left
- 70-40300 PhonoForm Block, Wedge



Silicone Strip

- An implant material to aid in surgical repairs and augmentation in ENT and reconstructive head and neck surgery
- May be cut and trimmed during procedures to meet individual needs
- Hardness and consistency allow for convenient shaping
- Non-sterile

Product	A	B	C	D	Qty
15-32600	4.5mm	9mm	20mm	12.5mm	1 ea



Medtronic ENT
Instruments

HEAD AND NECK INSTRUMENTS

Measuring Probe

- Double-ended, male and female, marked in millimeters to assist in determining the appropriate amount of medialization

Product	Description
70-60115	Double-Ended



Silicone Strip Holder

- Holds the implant material during trimming

Product	Description
70-60111	Silicone Strip Holder



Instrument Tray, Netteville Instruments

Product	Description
70-60116	Instrument Tray



Window Template

- Nonslip design and easy-to-read gauge helps placement and sizing of window

Product	Specs
70-60114	9mm x 13mm



NASAL AND SINUS INSTRUMENTS

Chisels

Ballenger Chisel

- V-shaped cutting surface
- Overall length 150mm

Product	Size
37-14055	2mm Edge
37-14056	4mm Edge
37-14057	6mm Edge
37-14058	8mm Edge



Metzenbaum Chisel

- Overall length 148mm (5.75")

Product	Specs
37-14320	6mm Wide, 5mm Cutting Edge



Curettes

Antrum Curette

- Overall length 190mm (7.5")

Product	Specs
37-14223	2mm x 6mm



Antrum Curette

- Overall length 190mm (7.5")

Product	Specs
37-14224	3mm x 9mm



Frontal Sinus Curette

- 2mm x 5mm Cup

Product	Specs
37-14703	Straight
37-14229	Curved 45°
37-14284	Curved 75°
37-14230	Curved 90°
37-14285	Curved 100°, Retrograde



NASAL AND SINUS INSTRUMENTS

Elevators

Ball Elevator

Product	Specs
37-14118	Overall Length 190mm (7.5")



Boies Nasal Fracture Elevator

Product	Specs
37-14381	Overall Length 197mm (7.75")



Cottle Septum Elevator

Product	Specs
37-14127	Double-Ended, Graduated Shaft Overall length 217mm (8.5")



Freer Septum Elevator

- Overall length 190mm (7.5")

Product	Specs
37-14038	4.5mm Wide, Square Handle
37-14039	6.5mm Wide, Square Handle
37-14372	4.5mm Wide, Round Handle



37-14038

Gorney Suction Elevator

- 3mm tip
- Overall length 220mm (8.5")

Product	Specs
37-14383	Straight



37-14383 (shown with stylette)

Joseph Periosteal Elevator

Product	Specs
37-14125	Overall Length 170mm (6.625")



37-14125

NASAL AND SINUS INSTRUMENTS

Elevators

Pierce Elevator

- Overall length 190mm (7.5")

Product	Specs
37-14121	Right/Left Blade



37-14121

Forceps

Asch Septum Straightening Forceps

- Overall length 225mm (8.75")

Product	Specs
37-11028	Heavy Forceps, Identical Blades, Angled on Flat



Biopsy and Grasping Forceps

- 3mm x 6mm cups
- Working length 90mm (3.5")

Product	Specs
37-11059	Straight
37-11129	Curved 70°
37-11130	Curved 110°



37-11059

Biopsy and Grasping Forceps, Long

- Working length 130mm (5.25")

Product	Specs
37-11049	3mm Cup, 70° Horizontal Shaft
37-11050	3mm Cup, 110° Horizontal Shaft
37-11055	4mm Cup, 70° Horizontal Shaft
37-11056	4mm Cup, 110° Horizontal Shaft
37-11051	3mm Cup, 110° Vertical Shaft
37-11052	4mm Cup, 110° Vertical Shaft
37-11053	3mm Cup, 70° Vertical Shaft
37-11054	4mm Cup, 70° Vertical Shaft



37-11054

NASAL AND SINUS INSTRUMENTS

Forceps

Blakesley Through-Cutting Forceps

- Upper jaw cuts cleanly through tissue, to help reduce tearing
- Working length 115mm (4.5")

Product	Specs
37-11079	Straight Jaws, 2.0mm Bite
37-11080	Straight Jaws, 2.5mm Bite
37-11081	Straight Jaws, 3.0mm Bite
37-11084	Jaws Angled Up 45°, 2.0mm Bite
37-11085	Jaws Angled Up 45°, 2.5mm Bite
37-11086	Jaws Angled Up 45°, 3.0mm Bite
37-11141	Angled Left, 2.5mm Bite
37-11140	Angled Right, 2.5mm Bite



Weil-Blakesley Through-Cutting Forceps, Serrated

- Working length 110mm

Product	Specs
37-11200	Straight Jaws, 2mm Bite
37-11201	Straight Jaws, 3.5mm Bite
37-11202	Straight Jaws, 4mm Bite
37-11203	Jaws Angled Up 45°, 2.5mm Bite
37-11204	Jaws Angled Up 45°, 3.5mm Bite
37-11205	Jaws Angled Up 45°, 4mm Bite
37-11210	Angled Right, 2.5mm Bite
37-11213	Angled Left, 2.5mm Bite



Frontal Sinus Recess Giraffe Forceps

- Working length 130mm (5.25")

Product	Specs
37-11060	45°, 2mm Vertical Jaws
37-11061	45°, 2mm Horizontal Jaws
37-11062	90°, 2mm Horizontal Jaws
37-11063	90°, 2mm Vertical Jaws
37-11064	45°, 3mm Vertical Jaws
37-11065	45°, 3mm Horizontal Jaws



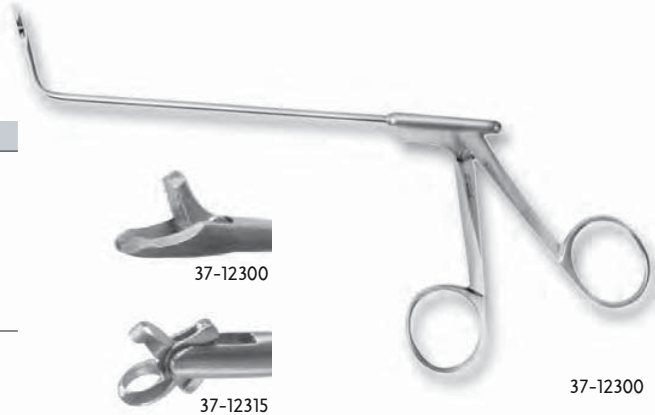
NASAL AND SINUS INSTRUMENTS

Forceps

Frontal Sinus Recess Giraffe Forceps, Through-Cutting

- Working length 130mm (5.25")

Product	Specs
37-12300	120°, 3mm x 6mm Horizontal Jaws, Serrated
37-12301	120°, 3mm x 6mm Vertical Jaws, Serrated
37-12310	45°, 2mm Vertical Jaws
37-12311	45°, 2mm Horizontal Jaws
37-12312	90°, 2mm Vertical Jaws
37-12313	90°, 2mm Horizontal Jaws
37-12314	45°, 3mm x 6mm Vertical Jaws
37-12315	45°, 3mm x 3mm Horizontal Jaws



Gruenwald Clean-Bite Forceps

- Through-cutting
- Working length 130mm (5.25")

Product	Specs
37-11082	Size 00, 2mm
37-11083	Size 0, 2.5mm
37-11088	Size 00, 2mm, Up 45°
37-11089	Size 0, 2.5mm, Up 45°



Gruenwald Nasal Forceps, Bayonet Style

- Overall length 203mm (8")

Product	Specs
37-11007	2mm x 18mm Serrated Tips



Gruenwald Nasal Forceps

- Working length 115mm (4.5")

Product	Specs
37-11010	Size 1 (3mm x 10mm bite)
37-11011	Size 2 (3.5mm x 10.5mm bite)
37-11012	Size 3 (4mm x 12mm bite)



Gruenwald Nasal Forceps, Modified Jaws

- Alternate jaw construction enhances visibility

Product	Specs
37-11013	3.5mm x 10.5mm Through-Cutting Jaws Working Length 115mm (4.5")



NASAL AND SINUS INSTRUMENTS

Forceps

Heuwieser Antrum Grasping Forceps

- Working length 130mm (5.25")

Product	Specs
37-11071	Fixed Jaw Curved 90° Movable Jaw Opens Backwards Up to 120°



Hildyard Post-Nasal Biopsy Forceps

- Working length 120mm (4.75")

Product	Specs
37-11066	3.5mm Round Cups



Jansen-Middleton Septum Forceps

- Working length 130mm (5.25")

Product	Specs
37-11026	4.6mm x 16mm bite, Large
37-11027	3.6mm x 16mm bite, Small



Jansen-Middleton Septum Forceps, Spoon-Shaped

- Working length 130mm (5.25")

Product	Specs
37-11025	5mm x 12.5mm jaws



NASAL AND SINUS INSTRUMENTS

Forceps

(Love-Gruenwald)

Takahashi Nasal Forceps

- Working length 178mm (7")

Product	Specs
37-11018	3mm x 10mm Jaws



Lucae Dressing Forceps, Bayonet Style

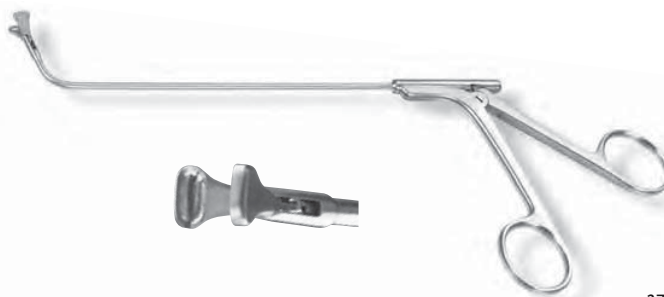
Product	Specs
37-11002	1.7mm x 15mm Tips, Overall Length 146mm (5.75")
37-11004	2mm x 15mm Tips, Overall Length 140mm (5.5")
37-11005	1.7mm x 17mm Tips, Overall Length 165mm (6.5")
37-11006	2mm x 18mm Tips, Overall Length 165mm (6.5")



Pear-Shaped Cupped Jaw Forceps

- Working length 130mm (5.25")
- Horizontal Jaws

Product	Specs
37-11068	45° Upturned
37-11069	80° Upturned



37-11068

Skinner Maxillary Biopsy Forceps

- Double-action cup jaws

Product	Specs
37-11127	70° Down, Vertical, 3mm Jaws Working Length 191mm (7.5")
37-11128	110° Down, Horizontal, 3mm Jaws Working Length 166mm (6.5")



37-11128

Strümpel Pediatric Forceps

- Working length 105mm (4.25")

Product	Specs
37-11035	Straight Jaws
37-11036	Jaws Angled 45°
37-11037	Jaws Angled 90°



37-11036

NASAL AND SINUS INSTRUMENTS

Forceps

Suction Blakesley Through-Cutting Forceps

- Working length 130mm (5.25")

Product	Specs
37-11142	Straight, 2.0mm, Size 00
37-11143	Straight, 2.5mm, Size 0
37-11145	45° Up, 2.0mm, Size 00
37-11146	45° Up, 2.5mm, Size 0



37-11143

Suction Takahashi Nasal Forceps

- Working length 100mm (4.0")
- Non-fenestrated upper jaw
- Lower jaw is perforated to allow use as suction with jaws closed

Product	Specs
37-11077	Size 00, 2.5mm, Straight Jaws
37-11078	Size 0, 3.5mm, Straight Jaws



37-11078

Takahashi Nasal Forceps

- Working length 115mm (4.5")

Product	Specs
37-11020	2.5mm x 8.0mm Jaw
37-11021	4.0mm x 9.0mm Jaw



37-11020

Weil-Blakesley Sinus Forceps

- Working length 115mm (4.5")

Product	Specs
37-11038	Size 00, 2.5mm
37-11043	Size 0, 3.5mm
37-11044	Size 1, 4.0mm
37-11045	Size 2, 5.0mm
37-11118	Size 3, 6.0mm



NASAL AND SINUS INSTRUMENTS

Forceps

Weil-Blakesley Sinus Forceps, 45° Up

- Working length 115mm (4.5")

Product	Specs
37-11039	Size 00, 3mm
37-11040	Size 0, 3mm
37-11041	Size 1, 4mm
37-11042	Size 2, 5mm
37-11119	Size 3, 6mm



Weil-Blakesley Sinus Forceps, 90° Up

- Working length 115mm (4.5")

Product	Specs
37-11047	Size 0, 3.5mm
37-11048	Size 1, 4mm
37-11046	Size 2, 5mm



Hooks

Joseph Skin Hook, Single

- Overall length 160mm (6.25")

Product	Specs
37-14019	4mm Single Hook



Nasal Mallets

Copper Mallet

- Overall length 165mm (6.5")

Product	Specs
37-14350	Head Weight 113 grams (4oz.)



Mallet, Nylon Striking Surfaces

- Overall length 190mm (7.5")

Product	Specs
37-14105	Lightweight 200 grams (7oz.) Nylon Striking Surfaces



Medtronic ENT Instruments

NASAL AND SINUS INSTRUMENTS

Morselizers

Septum Morselizing Forceps, Angled

Product	Specs
37-11032	Overall Length 190mm (7.5")



37-11032

Needle Holders

Parell Needle Holder

- 1.5mm tapered tungsten carbide jaws

Product	Specs
37-14034	Overall Length 152mm (6")
37-14035	Overall Length 178mm (7")



37-14034

Osteotomes

Osteotome

- Overall length 160mm (6.25")
- 5mm cutting edge

Product	Specs
37-14090	Curved, Right-Guarded
37-14091	Curved, Left-Guarded
37-14092	Straight, Right-Guarded
37-14093	Straight, Left-Guarded



37-14090

Ostium Seekers

Frontal Ostium Seeker

- Overall length 208mm (8.25")
- Double-ended, ball tips

Product	Specs
37-14231	Strong Angle, One End Angled 90°
37-14600	Light Curve, One End Angled 90°



37-14231

NASAL AND SINUS INSTRUMENTS

Ostium Seekers

Maxillary Ostium Seeker

- Overall length 190mm (7.5")

37-14232

Product	Specs
37-14232	Ball Tips, 2.3mm and 2.6mm Diameter



Punches, Backbiters

Antrum Punch

- Working length 140mm (5.5")
- 4mm bite

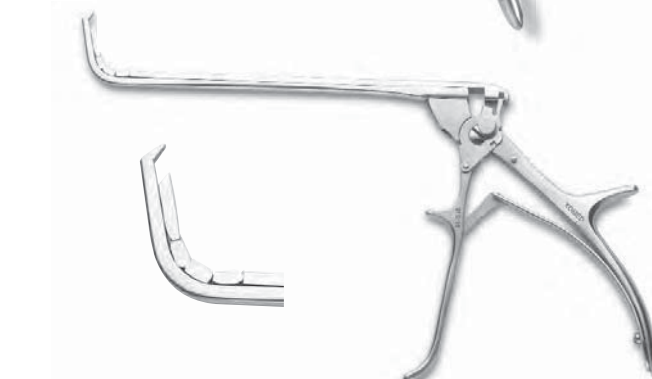
Product	Specs
37-12023	90° Down Biting
37-12024	90° Up Biting
37-12028	45° Backward Biting
37-12029	45° Forward Biting



Articulated Frontal Sinus Punch Forceps

- 70° upturned

Product	Specs
37-12118	Jaw 2mm x 4mm
37-12119	Jaw 3mm x 4mm
37-12124	Jaw 4mm x 4mm



Ostrum Antrum Punch Backbiter, Adult

- Working length 100mm (4")
- Bite 2.5mm x 7mm
- Head 5mm wide

Product	Specs
37-12032	Up-Biting
37-12033	Left-Biting
37-12034	Right-Biting



37-12032

Rotating Micro-Backbiter

- Working length 100mm (4")
- 2mm x 3.5mm bite

Product	Specs
37-12012	Curved Down
37-12043	Curved Up



37-12012

Medtronic ENT
Instruments

NASAL AND SINUS INSTRUMENTS

Nasal Punches, Backbiters

Backbiter, Rotating

- Working length 100mm (4")

Product	Specs
37-12013	Pediatric Size Head 3mm Wide Bite 1.5mm x 5.2mm
37-12014	Adult Size Head 5mm Wide Bite 2.5mm x 7mm



37-12013

Circular Cutting Punch, Angled

- Working length 160mm (6.25")

Product	Specs
37-12039	3.5mm Diameter Bite, Up 45°
37-12042	4.5mm Diameter Bite, Up 45°



37-12042

Circular Cutting Punch, Straight

- Working length 163mm
- Overall length 202mm

Product	Specs
37-12038	3.5mm Diameter Bite, Straight
37-12040	4.5mm Diameter Bite, Straight



37-12040

Hajek-Kofler Sphenoid Punch, Rotating

- Fully rotatable shaft
- Original model with fixation nut

Product	Specs
37-12022	3mm x 7mm Jaws Working Length 170mm (6.75")



Hajek-Kofler Through-Cutting Punch

- Working length 165mm (6.5")

Product	Specs
37-12044	2.5mm x 3.5mm Up-biting Jaws
37-12100	2mm x 3mm Up-biting Jaws



NASAL AND SINUS INSTRUMENTS

Punches, Backbiters

McKenty Sphenoid Punch

- Working length 135mm (5.25")
- Rotating

Product	Specs
37-12025	2mm x 5.5mm Through-Cutting Jaws



Punch Rongeur

- Featuring a shaft cleaning port and stylet for ejecting tissue and bone fragments from jaw recess without damaging cutting edges

Product	Specs
37-12026	2mm Bite Working Length 178mm (7")
37-12027	3mm Bite Working Length 152mm (6")

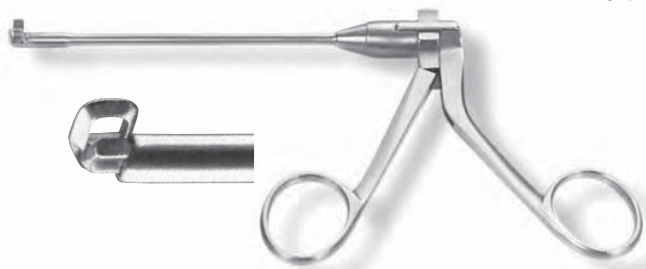


37-12026

Sidebiting Antrum Punch

- Working length 100mm (4")

Product	Specs
37-12107	Pediatric, Left (2.5mm x 4mm bite)
37-12108	Pediatric, Right (2.5mm x 4mm bite)
37-12030	Right (3.5mm x 5mm bite)
37-12031	Left (3.5mm x 5mm bite)
37-12116	Downbiting, Left (2.5mm x 40mm bite)
37-12117	Downbiting, Right (2.5mm x 40mm bite)



37-12108

Rongeurs

Kerrison Rongeur

- Working length 100mm (4")
- 4mm footplate, angled 90° up

Product	Specs
37-24074	No. 0, 3.5mm Bite
37-12015	No. 1, 4mm Bite
37-12016	No. 2, 4.5mm Bite
37-12017	No. 3, 5mm Bite



37-12015

NASAL AND SINUS INSTRUMENTS

Rongeurs

Kerrison-Costen Rongeur

Product	Specs
37-12021	4mm x 4mm Bite, 90 Down Curved Shaft



Knives

Sickle Knife

- Overall length 191mm (7.5")

Product	Specs
37-14282	Sharp Tip
37-14244	Dull Tip
37-14245	Sharp, Curved Right
37-14246	Sharp, Curved Left



Scissors

Becker Septum Scissors

- Overall length 160mm (6.25")

Product	Specs
37-13020	Serrated Blades



Fomon Nasal Scissors

- Curved sabre back blade
- Semi-sharp outer edges
- Blunt tips
- Overall length 127mm (5")

Product	Specs
37-13001	Tungsten Carbide Blades, Serrated



Gorney Turbinate Scissors

- Long, narrow, serrated blades
- Double action

Product	Specs
37-13025	Angled Shanks



NASAL AND SINUS INSTRUMENTS

Scissors

Nasal Sinus Scissors

- Adult size
- Working length 115mm (4.5")

Product	Specs
37-13029	Straight
37-13030	Angled Left
37-13031	Angled Right



37-13029

Specula

Beckman Nasal Specula

- Curved to side

Product	Specs
37-14204	Size 1, Small
37-14691	Size 2, Medium



37-14204

Cottle Septum Speculum

- Overall length 150mm (6")

Product	Specs
37-14472	Thin 50mm Blades



37-14472

Cottle Speculum

- Narrow, tapered blades

Product	Specs
37-14209	30mm Blades, 9mm to 4mm Taper
37-14210	35mm Blades, 10mm to 8mm Taper
37-14211	55mm Blades, 10mm to 6mm Taper
37-14212	55mm Blades, 10mm to 8mm Taper
37-14213	70mm Blades, 10mm to 8mm Taper
37-14214	80mm Blades, 10mm to 8mm Taper
37-14215	90mm Blades, 10mm to 8mm Taper



37-14209

Hartman Nasal Speculum

Product	Specs
37-14688	Adult



37-14688

NASAL AND SINUS INSTRUMENTS

Specula

Killian Septum Specula

- Overall length 140mm (5.5")

Product	Specs
37-14205	51mm Blades
37-14206	64mm Blades
37-14207	76mm Blades
37-14208	90mm Blades



Tieck Infant Nasal Speculum

- Overall length 140mm (5.5")

Product	Specs
37-14203	18mm Blades



Vienna Nasal Specula

- Original pattern
- Overall length 134mm (5.25")

Product	Specs
37-14199	No. 1, 23mm Blades
37-14200	No. 2, 28mm Blades
37-14201	No. 3, 30mm Blades
37-14202	No. 4, 33mm Blades



Septum Specula, Ebony

Product	Specs
37-14480	35mm Blades, Narrow
37-14481	50mm Blades, Narrow
37-14482	75mm Blades, Narrow
37-14483	90mm Blades, Narrow



NASAL AND SINUS INSTRUMENTS

Suction

Frazier Suction Tube

- Working length 102mm (4")
- Stylette included

Product	Size
37-14000	6 French
37-14001	7 French
37-14002	8 French
37-14003	9 French
37-14004	10 French
37-14005	11 French
37-14006	12 French
37-14007	14 French
37-14000S	Replacement Stylette



37-14002

Sinus Suction

- Overall length 147mm (5.75")

Product	Specs
37-14494	Long Curve, 2.5mm Outer Diameter
37-14495	Short Curve, 2.5mm Outer Diameter
37-14237	Long Curve, 3mm Outer Diameter
37-14238	Short Curve, 3mm Outer Diameter
37-14239	Short Curve, 4mm Outer Diameter
37-14240	Long Curve, 4mm Outer Diameter



37-14238

Cannulae

Sinus Trocar and Cannula

- Overall length 180mm (7")

Product	Specs
37-14241	4mm
37-14242	5mm
37-14243	2.7mm



37-14241

Instrument Trays

Sinus Instrument Tray

Product	Specs
37-17000	Holds 43 Instruments, Upper Insert Removable
37-17001	3 Level



37-17000

37-17001

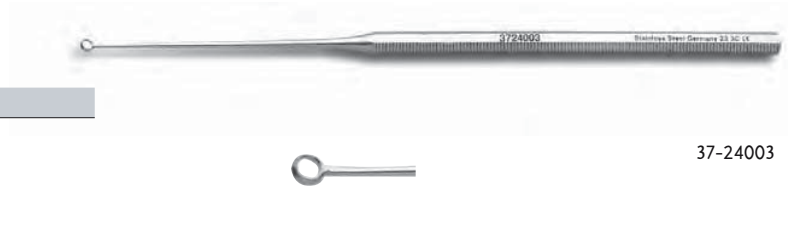
OTOLOGY INSTRUMENTS

Ear Curettes

Buck Ear Curette, Angled, Sharp

- Overall length 145mm (5.7")

Product	Size
37-24001	1mm, Size 00
37-24002	1.5mm, Size 0
37-24003	2mm, Size 1
37-24004	2.5mm, Size 2
37-24005	3mm, Size 3



Buck Ear Curette, Angled, Dull

- Overall length 145mm (5.7")

Product	Size
37-24011	1mm, Size 00
37-24012	1.5mm, Size 0
37-24013	2mm, Size 1
37-24014	2.5mm, Size 2
37-24015	3mm, Size 3



Elevators

Lempert Elevator

- Overall length 184mm (7.25")

Product	Specs
37-24060	7mm Curved Tip



OTOLOGY INSTRUMENTS

Forceps

Bellucci Alligator Forceps, Delicate

- Working length 81 mm (3.2")
- Angled serrations

Product	Specs
37-21014	5mm Jaws



Duckbill Ear Forceps

- Working length 87mm (3.4")
- 8mm jaws (6mm serrated)

Product	Specs
37-21004	2.0mm



Cup Forceps, Delicate

- Working length 75 mm (3.2")

Product	Specs
37-21041	0.75 mm Cups



Cup Forceps, Oblong Cups, Very Fine

Product	Specs
37-21032	0.9mm x 2mm Cups



Alligator Forceps, Very Fine

- Working length 82mm (3.2")

Product	Specs
37-21036	4mm, Jaws Straight
37-21025	6mm, Jaws Straight



37-21025

Forceps

Alligator Forceps, Very Fine, Black Finish

- Working length 82 mm (3.2")

Product	Specs
37-21023	3mm Serrated Jaws
37-21024	4mm Serrated Jaws



Hartman Ear Forceps

- Working length 82mm (3.2")

Product	Specs
37-21000	2mm x 6mm Serrated Tips



House Alligator Crimper Forceps, Fine

- Working length 87mm (3.4")

Product	Specs
37-21018	8mm Serrated Jaws, Dull Point



House Cup Forceps, Very Fine

- Working length 77mm (3")
- 0.9mm cups

Product	Specs
37-21021	Angled 25° Right
37-21022	Angled 25° Left



House Miniature Forceps

- Working length 78mm (3.1")

Product	Specs
37-21026	4mm Very Delicate Serrated Jaws
37-21027	3mm Extremely Delicate Serrated Jaws



Forceps

House Strut Forceps, Very Fine

- Working length 82mm (3.2")

Product	Specs
37-21020	Smooth 6.0mm Jaws



37-21020

House Wullstein

Miniature Ear Cup Forceps, Very Fine

- Working length 82mm (3.2")
- 0.6mm x 1.2mm cups

Product	Specs
37-21037	Straight
37-21038	Angled Left
37-21039	Angled Right
37-21040	Angled Up



37-21037

McGee Malleus Crimper, Very Fine

- Working length 76mm (3.0")

Product	Specs
37-21009	3mm Jaws
37-21008	3mm Jaws, Angled Down



37-21008

Noyes Ear Forceps, Fine

- Working length 83mm (3.3")

Product	Specs
37-21002	8mm Serrated Jaws



37-21002

Holding Clamps

Derlacki Ossicle Holding Clamp

- Overall length 124mm (4.75")

Product	Specs
37-21060	1mm Teeth, 1.5 x 5mm Vertical Groove 1.5 x 2.0mm Horizontal Groove



Hooks

Allport Incus Hook, 5.5mm

Product	Specs
37-24307	Angled 90°



Gross Ear Hook and Spoon

Product	Specs
37-24026	3mm x 7.5mm Spoon, 3mm 105° Hook



Knives

E/Z Chuck Blade Handle

Product	Specs
13-52321	Works with the ear knife blades listed on the next page



Myringotomy Knife

- Overall length 165mm (6.5")

Product	Specs
37-24282	Hexagonal Handle, 8mm straight blade
37-24377	Hexagonal Handle, 10mm curved blade



37-24282

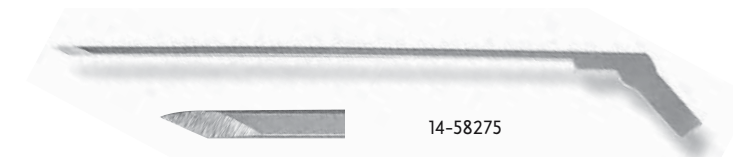
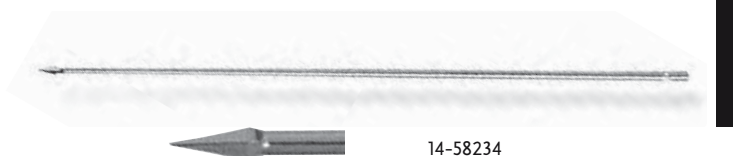
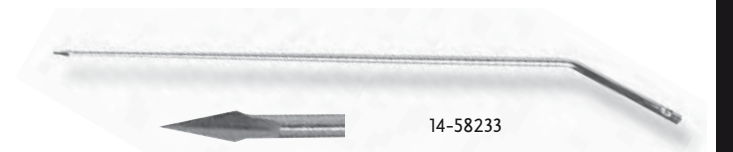
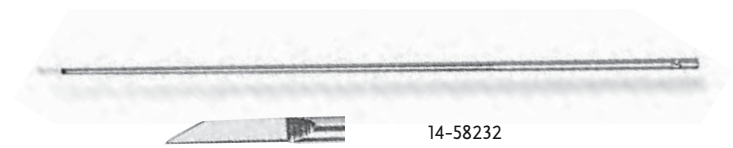
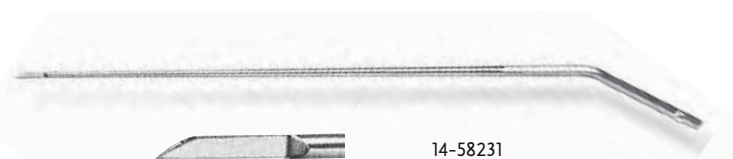
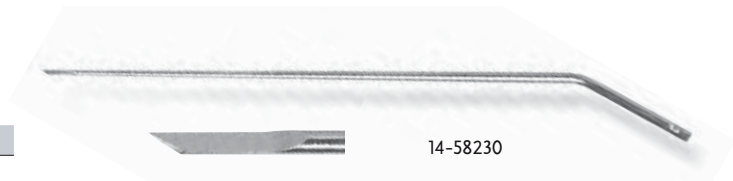
OTOLOGY INSTRUMENTS

Knives

Ear Knife Blade (Disposable), Single-Use

- Fits E/Z Chuck Blade Handle (13-52321)
- Sterile, single use

Product	Specs	Qty
14-58230	Upcutting, Angled, Stainless Steel Precise Hollow-Ground 4mm Razor Edge	5/box
14-58231	Downcutting, Angled, Stainless Steel Precise Hollow-Ground 4mm Razor Edge	5/box
14-58232	Razor, Straight, Stainless Steel Precise Hollow-Ground 4mm Razor Edge	5/box
14-58233	Spear, Angled, Stainless Steel Precise Hollow-Ground Razor Edge	5/box
14-58234	Spear, Straight, Stainless Steel Precise Hollow-Ground 4mm Razor Edge	5/box
14-58275	Narrow, 7IN	5/box
14-58276	Spear Tip, 7IS	5/box



Medtronic ENT
Instruments

Loops

House Billeau Ear Loop

- Overall length 163mm (6.4")

Product	Specs
37-24058	3.5 Oval Loop

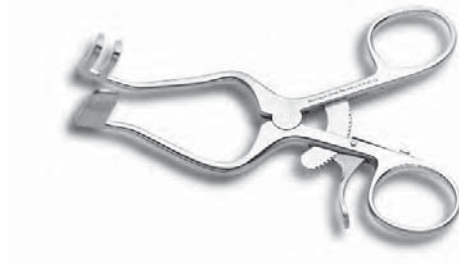


Retractors

Bellucci-Wullstein Retractor

- Overall length 127mm (5")

Product	Specs
37-24069	Two 13mm Blunt Prongs, Left Solid 10 x 20mm Blade, Right, 45mm Spread
37-24070	Two 13mm Blunt Prongs, Right Solid 10 x 20mm Blade, Left, 45mm Spread



37-24070

House Retractor

- Overall length 165mm (6.5")

Product	Specs
37-52247	3 Blunt Prongs, Right; Spiked Blade, Left 180° Degrees Arm Rotation Maximum Spread 80mm (3.1")
37-52248	3 Blunt Prongs, Left; Spiked Blade, Right 180° Degrees Arm Rotation Maximum Spread 80mm (3.1")



13-52247
House Retractor



13-52248
House Retractor

Paparella-Weitlaner Retractor

- Overall length 136mm (5.4")

Product	Specs
37-24068	2 x 2 Semi-Sharp 13mm Prongs 33mm Spread



37-24068

Perkins Retractor, Self-Retracting

Product	Specs
37-24066	3 Blunt Prongs Left, Blade Right
37-24067	3 Blunt Prongs Right, Blade Left



37-24066

Retractors

Schuknecht-Weitlaner Retractor

- Overall length 130mm (5.125")

Product	Specs
37-24072	3 x 3 Sharp Prongs

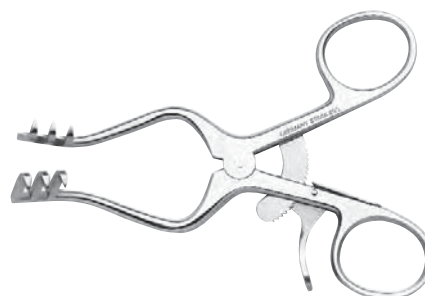


37-24072

Wullstein-Weitlaner Retractor

- Working length 114mm (4.5")

Product	Specs
37-24071	3 x 3 Sharp 12mm Prongs, 35mm Spread Overall Length 108mm (4.25")
37-24073	3 x 3 Semi-Sharp 13mm Prongs, 35mm Spread Overall Length 132mm (5.125")



37-24071

Scissors and Nippers

Bellucci Miniature Scissors, Fine

- Working length 87mm (3.4")

Product	Specs
37-23001	8mm Blades, Straight
37-24309	8mm Blades, Curved Left
37-24310	8mm Blades, Curved Right



37-23001

Bellucci Scissors, Very Fine

- Working length 82mm (3.2")

Product	Specs
37-23008	4.5mm Blades, Straight



Scissors and Nippers

House-Bellucci Alligator Scissors

Product	Specs
37-23002	5mm, Straight



House-Dieters Malleus Nipper

- Working length 82mm (3.2")

Product	Specs
37-21045	2mm, Delicate Jaws
37-21046	1.5mm, Very Delicate Jaws



37-21045

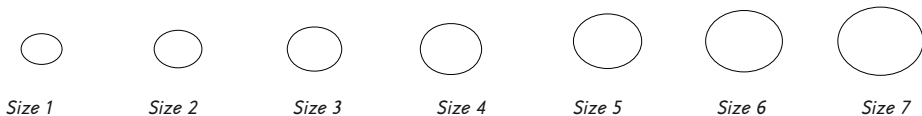
Specula

Farrior Specula, Oval

Product	Size
37-24108	Size 1 (4.5 x 5.5mm)
37-24109	Size 2 (5.5 x 6.5mm)
37-24110	Size 3 (6.5 x 7.5mm)
37-24111	Size 4 (7.5 x 8.5mm)
37-24112	Size 5 (8 x 10mm)
37-24113	Size 6 (9 x 11.0mm)
37-24114	Size 7 (10 x 12.0mm)
37-24470	Set of 7



37-24123



Specula

Farrior Specula, Oval Oblique

Product	Size
37-24122	Size 1 (5 x 6mm)
37-24123	Size 2 (6 x 7mm)
37-24124	Size 3 (7 x 8mm)
37-24125	Size 4 (8 x 9mm)
37-24126	Size 5 (9 x 10mm)
37-24127	Size 6 (10 x 11.25mm)
37-24128	Size 7 (11 x 12.5mm)
37-24490	Set of 7



Size 1



Size 2



Hartman Specula, Round

- Overall length 35mm (1.4")

Product	Size
37-24140	Set of 4
37-24141	Size 1 (4mm)
37-24142	Size 2 (5mm)
37-24143	Size 3 (6mm)
37-24144	Size 4 (7mm)
37-24150	Pediatric, 35mm, 2.5mm



Size 1



Size 2



Size 3



Size 4



Suction Tubes

Barnes Suction Tube

- Thumb plate cutoff

Product	Specs
37-24183	4 French, 1.5mm Diameter
37-24184	5 French, 1.7mm Diameter
37-24185	6 French, 2mm Diameter
37-24188	9 French, 3mm Diameter



Baron Suction Tube

- Working length 75mm (3")
- Overall length 130mm (5.1")
- Thumb plate cutoff
- Stylette included

Product	Specs
37-24172	Regular, 3 French
37-24173	Regular, 5 French
37-24175	Regular, 7 French



Suction Tubes

Bellucci Suction Tube

- Thumb plate with cutoff hole

Product	Specs
37-24189	Bellucci Suction Tube and 3 Tips: 18, 20, 22
37-24190	18 Gauge Tip Only
37-24191	20 Gauge Tip Only
37-24192	21 Gauge Tip Only
37-24193	22 Gauge Tip Only
37-24194	24 Gauge Tip Only
37-24195	26 Gauge Tip Only
37-24196	Suction Tube Only Overall length 150mm (5.9")



Frazier Suction Tube

- Working length 102mm (4")
- Stylette included

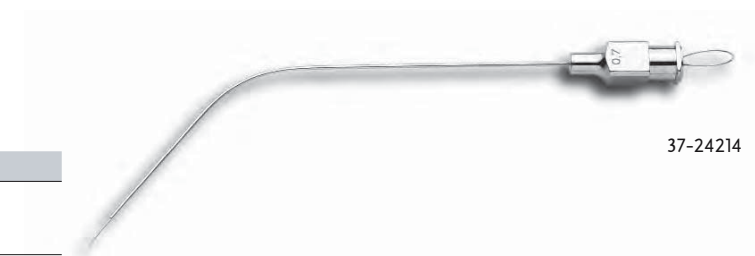
Product	Size
37-14000	6 French
37-14001	7 French
37-14002	8 French
37-14003	9 French
37-14004	10 French
37-14005	11 French
37-14006	12 French
37-14007	14 French
37-14000S	Replacement Stylette



Guilford-Wright Suction Tube

- Working length 75mm (3")
- Overall length 105mm (4.1")
- Stylette included

Product	Size
37-24213	20 Gauge
37-24214	22 Gauge
37-24215	24 Gauge



House-Baron Suction Tube, Extra Long

- Thumb plate with cutoff hole

Product	Size
37-24177	3 French, Working Length 90mm (3.5")
37-24178	5 French, Working Length 90mm (3.5")
37-24179	7 French, Working Length 90mm (3.5")
37-24180	3 French, Working Length 110mm (4.3")
37-24181	5 French, Working Length 110mm (4.3")
37-24182	7 French, Working Length 110mm (4.3")



Suction Tubes

House Cutoff Adapter

- Fits Guilford-Wright Suction Tube

Product	Size
37-24216	50mm (2")



37-24216

House Suction Irrigator

- Thumb plate with cutoff hole for suction

Product	Size
37-24217	2 x 2.5 French, 85mm
37-24218	2.5 x 4 French, 70mm
37-24219	2.5 x 4 French, 95mm
37-24220	4 x 5 French, 70mm
37-24221	4 x 5 French, 95mm
37-24222	5 x 7 French, 95mm
37-24223	6 x 8 French, 95mm
37-24224	7 x 10 French, 95mm
37-24225	8 x 12 French, 95mm
37-24226	12 x 14 French, 95mm



37-24224

Rosen Suction Tube

- Working length 60mm (2.4")

Product	Size
37-24199	14 Gauge
37-24200	15 Gauge
37-24201	16 Gauge
37-24202	17 Gauge
37-24203	18 Gauge
37-24204	19 Gauge
37-24205	20 Gauge
37-24206	22 Gauge
37-24207	24 Gauge
37-24208	26 Gauge



37-24204

Miscellaneous

Goode T-Tube® Forceps

- Overall length 87mm (3.4")
- Easy to load and handle
- Non-sterile

Product	Description/Material
13-16005	Stainless Steel, Satin Finish



House Cutting Block, Autoclavable

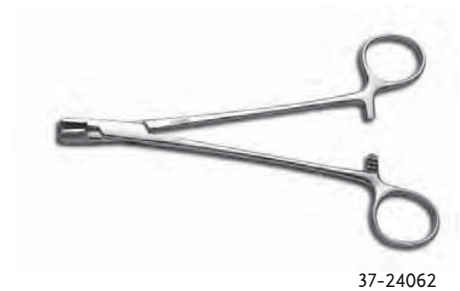
Product	Description/Material
37-24064	73mm x 37mm x 8mm



House Gelfoam® Press

- 16 x 12mm plates

Product	Specs
37-24062	Overall Length 191mm (7.5")
37-24063	Overall Length 127mm (5")



Sheehy Fascia Press

- Overall length 191mm (7.5")

Product	Specs
37-24061	23 x 31mm Plates



Middle and Inner Ear: Austin Instruments

Needle

Product	Specs
37-22003	Slightly Curved Tip



Sickle Knife

Product	Specs
37-22008	3mm Curved Blade



Guilford-Wright Instruments

Foot Plate Pick

Product	Specs
37-22020	Tip Angled 45°
37-22021	Tip Angled 90°



Hough Instruments

Whirlybird Knife

- Overall length 165mm (6.5")

Product	Specs
37-22026	1mm x 5mm, Strongly Curved Tip Offset Right, No. 1 Overall Length 155mm
37-22027	1mm x 5mm, Strongly Curved Tip Offset Left, No. 2
37-22028	0.75mm x 5mm, Lightly Curved Tip Offset Right, No. 3
37-22029	0.75mm x 5mm, Lightly Curved Tip Offset Left, No. 4 Overall Length 165mm



Stapedial Foot Plate Auger

- 15mm fluted length

Product	Specs
37-22033	0.8mm Diameter Drill
37-22034	0.6mm Diameter Drill



House Instruments

Sickle Knife (#1 Knife)

Product	Specs
37-22036	7.5mm Curved Blade



Lancet Knife (#2 Knife)

Product	Specs
37-22037	2mm x 3mm Tapered Tip, Angled 45°



Sheehy Knife Curette

- 15mm fluted length

Product	Specs
37-22038	2mm Diameter Semi-sharp Blade, Small
37-22039	2.5mm Diameter Semi-sharp Blade, Large



Tympanoplasty Knife

Product	Specs
37-22040	7mm Curved Blade



Separator

- Bayonet-style shaft

Product	Specs
37-22046	Wide, 1.5mm Curved Blade, Scraping Tip
37-22047	Narrow, 1.25mm Curved Blade, Scraping Tip



Incudostapedial Joint Knife

Product	Specs
37-22041	0.75mm Blade Angled 60°
37-22042	0.5mm x 1.5mm Blade Angled 20°



OTOLOGY INSTRUMENTS

House Instruments

Barbara Pick

Product	Specs
37-22058	Straight Point, Malleable Shaft



Curette, Double Ended

Product	Specs
37-22049	1mm and 1.5mm Cups Light Angle
37-22050	1mm and 1.5mm Cups, Strong Angle
37-22051	2mm and 2.5mm Cups, Light Angle
37-22052	2mm and 2.5mm Cups, Strong Angle



37-22051

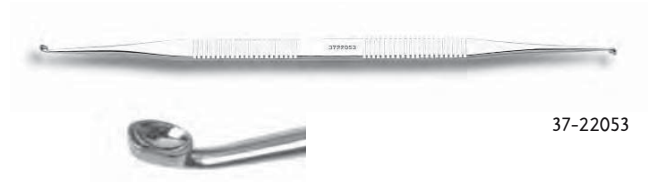
Elevator ("Gimmick")

Product	Specs
37-22048	1mm x 12mm Tip, Angled 15°



Stapes Curette, Double Ended

Product	Specs
37-22053	2.25mm x 3mm and 2mm x 2.5mm Oval Cups



37-22053

Needle

Product	Specs
37-22054	Sharp, Strong Short Curve
37-22055	Sharp, Light Curve
37-22056	Dull, Light Curve
37-22057	Semi-Sharp, Strong Curve



37-22055

Oval Window Pick, Malleable Shaft

Product	Specs
37-22059	0.33mm Point Angled 30°
37-22060	0.33mm Point Angled 90°
37-22061	0.66mm Point Angled 90°
37-22063	0.66mm Point Angled 30°



37-22059

House Instruments

Strut Pick, Malleable Shaft

Product	Specs
37-22062	0.5mm Point Angled 90°
37-22064	0.66mm Point Angled 90°



37-22064

House Excavator, Malleable Shaft

Product	Specs
37-22065	0.33 Tip Angled 90°



Pick, Malleable Shaft

Product	Specs
37-22066	1mm Point Angled 90°
37-22067	1.5mm Point Angled 90°
37-22068	3mm Point Angled 90°

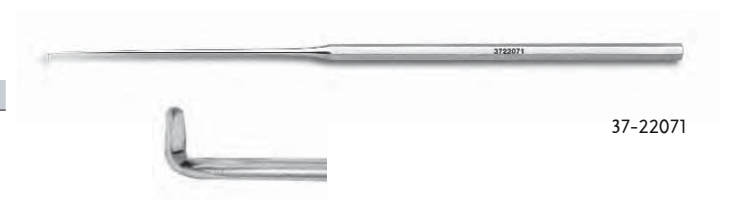


37-22066

Crabtree Dissector

- Angled 90°

Product	Specs
37-22071	Large 0.5mm Wide x 2.5mm Long Flattened Tip
37-22072	Small 0.5mm Wide x 1.5mm Long Flattened Tip



37-22071

Wire Strut Guide

Product	Specs
37-22075	0.6mm Long Tip, Notched at End



House Retractor

- Overall length 165mm (6.5")

Product	Specs
37-52247	3 Blunt Prongs, Right; Spiked Blade, Left 180° Degrees Arm Rotation Maximum Spread 80mm (3.1")
37-52248	3 Blunt Prongs, Left; Spiked Blade, Right 180° Degrees Arm Rotation Maximum Spread 80mm (3.1")



13-52247
House Retractor



13-52248
House Retractor

OTOLOGY INSTRUMENTS

House Instruments

Measuring Rod, Malleable Shaft

Product	Specs
37-22077	3.5mm from Marker to Tip
37-22078	4mm from Marker to Tip
37-22079	4.5mm from Marker to Tip
37-22080	5mm from Marker to Tip



37-22058

McCabe Instruments

Canal Knife, Sharp Blade

Product	Specs
37-22083	2mm Diameter
37-22084	2.5mm Diameter



37-22084

Paparella Instruments

Duckbill Elevator

Product	Specs
37-22115	3.5mm Wide, Slightly Curved, Sharp Blade



Fenestrometer

Product	Specs
37-22109	2mm wide x 4mm Long Scale 0.5mm Increments



Paparella Instruments

Pick

- 1mm wide x 4mm long blade

Product	Specs
37-22113	Bent Right
37-22114	Bent Left



Rosen Instruments

Pick

Product	Specs
37-22117	3mm Curve from Tip
37-22118	1.5mm Angle from Tip



Schuknecht Instruments

Roller Knife

- Shaft angled near tip

Product	Specs
37-22122	3mm In-Line Blade
37-22123	3mm Blade, Angled 90°



Shambaugh-Derlacki Instruments

Derlacki Mobilizer

Product	Specs
37-22136	Angle Tip, Serrated Round End



Harrison Knife

Product	Specs
37-22158	Blade Angled 45°
37-22138	Blade Angled 90°

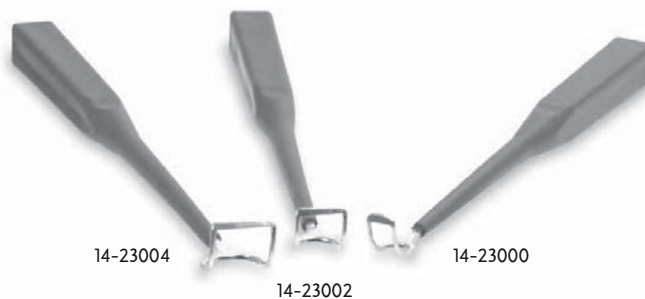


GENERAL THROAT INSTRUMENTS

Adenoid Curettes

Disposable Adenoid Curette

Product	Qty
14-23004	Disposable Adenoid Curette, size 4 5/bx
14-23002	Disposable Adenoid Curette, size 2 5/bx
14-23000	Disposable Adenoid Curette, size 0 (Rosenmueller's Fossae Curette) 5/bx



Barnhill Adenoid Curette

Product	Size
37-34003	Size 0, 10.5mm Cutting Edge
37-34004	Size 1, 13mm Cutting Edge
37-34005	Size 2, 15mm Cutting Edge
37-34006	Size 3, 17mm Cutting Edge
37-34007	Size 4, 19mm Cutting Edge



37-34007

Forceps

Allis-Coakley Tonsil Forceps

- Overall length 190mm (7.9")

Product	Specs
37-31004	Curved
37-31006	Straight



37-31006

Schmidt Tonsil Forceps

- Overall length 190mm (7.25")

Product	Specs
37-31058	Medium Curve



Medtronic ENT Instruments

Mirrors

Laryngeal Mirror

- Overall length 191mm (7.5")

Product	Specs
37-34048	Size 000, 8mm Diameter
37-34049	Size 00, 10mm Diameter
37-34050	Size 0, 12mm Diameter
37-34051	Size 1, 14mm Diameter
37-34052	Size 2, 16mm Diameter
37-34053	Size 3, 18mm Diameter
37-34147	Size 4, 20mm Diameter
37-34054	Size 5, 22mm Diameter
37-34055	Size 6, 24mm Diameter
37-34056	Size 7, 26mm Diameter
37-34057	Size 8, 28mm Diameter
37-34058	Size 9, 30mm Diameter



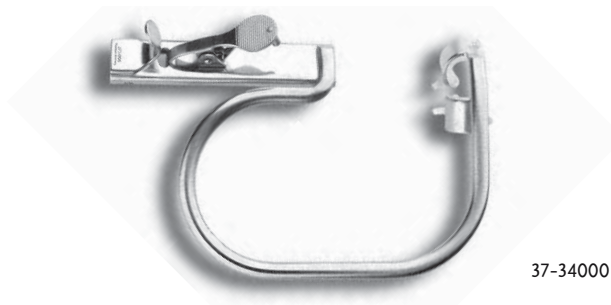
37-34057

GENERAL THROAT INSTRUMENTS

Mouth Gags

Oral Stabilizer

Product	Specs
37-34000	Left
37-34001	Right
37-34002	Set (Left and Right)



Davis Mouth Gag

Product	Specs
37-34069	Right Frame
37-34070	Left Frame
37-34073	Complete, Both Frames with Eight Blades
37-34071	Right Frame, Pediatric
37-34072	Left Frame, Pediatric



Davis Mouth Gag Blades

- Overall length 222mm (8.75")

Product	Specs
37-34075	No. 1
37-34076	No. 1.5
37-34077	No. 2
37-34078	No. 2.5
37-34079	No. 3
37-34080	No. 3.5
37-34081	No. 4
37-34082	No. 5



Davis Ring Blades

- Overall length 191mm (7.5")

Product	Specs
37-34083	Size 2, Left
37-34084	Size 2, Right
37-34085	Size 3, Left
37-34086	Size 3, Right
37-34087	Size 4, Left
37-34088	Size 4, Right
37-34089	Size 5, Left
37-34090	Size 5, Right



Denhardt Mouth Gag

Product	Specs
37-34151	30mm Spread

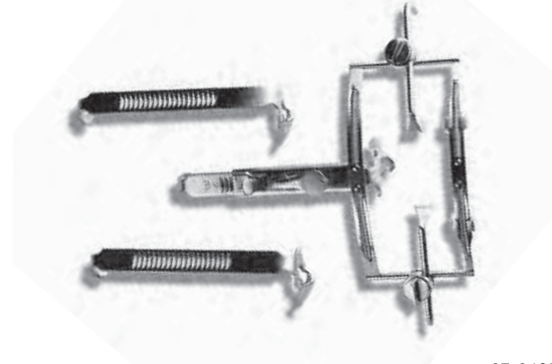


GENERAL THROAT INSTRUMENTS

Mouth Gags

Dingman Mouth Gag

Product	Specs
37-34059	Frame with 3 Blades
37-34060	24 x 52mm Blade, Small
37-34061	28 x 55mm Blade, Medium
37-34062	30 x 68mm Blade, Large



37-34059

Jennings Mouth Gag

Product	Specs
37-34148	Small
37-34149	Medium
37-34150	Large



37-34150

Mclvor Mouth Gag

Product	Specs
37-34152	Frame Only
37-34065	Frame with 3 Blades
37-34066	23.5 x 74mm Blade
37-34067	25.5 x 90mm Blade
37-34068	26.5 x 101mm Blade



37-34152

Medtronic ENT
Instruments

Punches

King Adenoid Punch, Triangular Bite

- Working length 110mm (4.5")

Product	Specs
37-31003	7mm Bite with Basket



GENERAL THROAT INSTRUMENTS

Punches

Meltzer Adenoid Punch, Triangular Bite

- Working length 140mm (5.5")

Product	Specs
37-31000	6mm Bite with Basket
37-31001	7mm Bite with Basket
37-31002	8mm Bite with Basket



Depressors

Wieder Tongue Depressor

Product	Specs
37-34092	Child
37-34093	Adult



Snares

Eve Tonsil Snare

Product	Specs
37-34105	Overall Length 286mm (11.25")



Sage Tonsil Snare

Product	Specs
37-34096	279mm (11") (Fully Retracted)
37-34097	Replacement Wire, Size 7
37-34098	Replacement Wire, Size 8



LARYNGEAL INSTRUMENTS

Jako Laryngeal Instruments

Jako Laryngeal Scissors

- Working length 235mm (9.25")

Product	Specs
37-33014	Straight, Vertical
37-33015	Straight, Horizontal
37-33016	Curved Left
37-33017	Curved Right
37-33018	Up-turned



Jako Laryngeal Knives

- Overall length 294mm (11.5")

Product	Specs
37-34123	Sickle Blade
37-34124	Straight Blade



Kleinsasser Laryngeal Instruments

Kleinsasser Laryngeal Alligator Forceps

- Working length 270mm (10.75")
- 9mm jaws

Product	Specs
37-31035	Straight
37-31036	Curved Right
37-31037	Curved Left



Kleinsasser Laryngeal Cup Forceps

- Working length 270mm (10.75")

Product	Specs
37-31030	Straight, 1mm Cups
37-31031	Straight, 2mm Cups
37-31032	Curved Right, 1mm Cups
37-31033	Curved Left, 1mm Cups
37-31034	Curved Up, 1mm Cups



Kleinsasser Laryngeal Scissors

- Working length 270mm (10.75")
- 5mm blades

Product	Specs
37-33006	Straight Horizontal
37-33007	Straight Vertical
37-33008	Curved Left
37-33009	Curved Right
37-33010	Curved Up



LARYNGEAL INSTRUMENTS

Kleinsasser Laryngeal Instruments

Kleinsasser Mini Scissors

- Working length 255mm

Product	Specs
37-33002	Straight
37-33003	45°
37-33004	Curved Right
37-33005	Curved Left



37-33006

Calipers and Rulers

Castroviejo Caliper

- Overall length 86mm (3.4")

Product	Specs
37-40009	0-20mm Scale, Straight



Forceps

Adson Tissue Forceps

- Overall length 120mm (4.7")

Product	Specs
37-40025	1 x 2 Teeth, Standard Pattern
37-40026	0.8mm, 1 x 2 Teeth
37-40027	1 x 2 Teeth, Serrated



37-40025

Bishop-Harmon Tissue Forceps

- Overall length 86mm (3.4")

Product	Specs
37-40051	1 x 2 Teeth, 0.3mm Teeth
37-40052	1 x 2 Teeth, 0.8mm Teeth
37-40053	1 x 2 Teeth, Curved



37-40052

PLASTIC SURGERY INSTRUMENTS

Forceps

Cottle Columella Forceps

- Overall length 107mm (4.2")

Product	Specs
37-40067	14mm Wide Tip



Jeweler Forceps

Product	Specs
37-40068	No. 1, 121mm (4.75"), Fine Point
37-40071	No. 5, 109mm (4.3")
37-40073	No. 7, 109mm (4.3")



37-40071

Knives and Handles

Knife Handle

- Overall length 152mm (6")

Product	Specs
37-40006	Round, Knurled, Chuck Style



Needle Holders

Brown Needle Holder

- Overall length 132mm (5.25")

Product	Specs
37-44000	Convex, Fine Serrated



Derf Needle Holder

- Overall length 127mm (5")

Product	Specs
37-44003	Standard Pattern



PLASTIC SURGERY INSTRUMENTS

Scissors

Brophy Gum And Suture Scissors

- Sharp points
- Overall length 144mm (5.7")

Product	Specs
37-41008	Curved, Sharp Points



Iris Scissors, Curved

Product	Specs
37-41180	Overall Length 89mm (3.5")
37-41181	Overall Length 105mm (4.1")
37-41182	Overall Length 114mm (4.5")

Iris Scissors, Ribbon Type, Large Blades

- Overall length 104mm (4.1")

Product	Specs
37-41027	Curved, Pointed Tips



Joseph Scissors

- Overall length 145mm (5.7")

Product	Specs
37-41166	Straight

Mayo Scissors

Product	Specs
37-41080	Curved, Round Blade, 147mm (5.8")
37-41083	Straight, Round Blade, 170mm (6.7")

PLASTIC SURGERY INSTRUMENTS

Scissors

**Metzenbaum Scissors,
Tungsten Carbide**

- Tungsten carbide inserts in jaws

Product	Specs
37-41066	Straight, Regular, 146mm (5.75")
37-41065	Curved, Regular, 146mm (5.75")
37-41071	Curved, Delicate, 146mm (5.75")
37-41067	Curved, Regular, 180mm (7.1")
37-41073	Curved, Delicate, 178mm (7")
37-41075	Curved, Regular, 229mm (9")



37-41066

Stevens Tenotomy Scissors

- Small, blunt tips
- Overall length 93mm (3.7")

Product	Specs
37-41036	Curved



37-41036

Stitch Scissors, Ribbon Type

- Overall length 98mm (3.9")

Product	Specs
37-41032	Needle Points
37-41033	Very Sharp Points



37-41032

Scissors, 19mm

- Flat 8mm handle
- 19mm serrated blades
- Overall length 149mm (5.9")

Product	Specs
37-53008	Straight

Instrument available but not shown.

PLASTIC SURGERY INSTRUMENTS

Browlift Bone Bridge™ System

Secure brow fixation system without the expense of permanent implants, absorbable anchors, or post-operative screw removal

Product		Qty
37-47100	Browlift Bone Bridge System, Complete	1 set
<i>Set Includes:</i>		
37-47101	Bone Bridge Drill Guide	1 ea
37-47102	Bone Bridge Suture Passer	1 ea
37-47103	Bone Bridge (Universal) Drill Bit	1 ea
37-47106	Bone Bridge Guide Pin	1 ea
37-47104	Bone Bridge Sterilization Tray	1 ea
Also available but not included in set:		
37-47105	XPS Bone Bridge Drill Bit	1 ea
37-47107	J-Notch for Stryker Drill	1 ea



PLASTIC SURGERY INSTRUMENTS

Hemostatic Forceps

Adson Hemostatic Forceps

- Overall length 186mm (7.25")

Product	Size
37-55147	Curved, Delicate Jaws

Instrument available but not shown.

Halstead Mosquito Forceps

Product	Size
37-55101	Straight, Overall Length 121mm
37-55102	Curved, Overall Length 125mm



37-55101

MicroFrance[®] Instrumentation



MicroFrance Sinus Instrumentation

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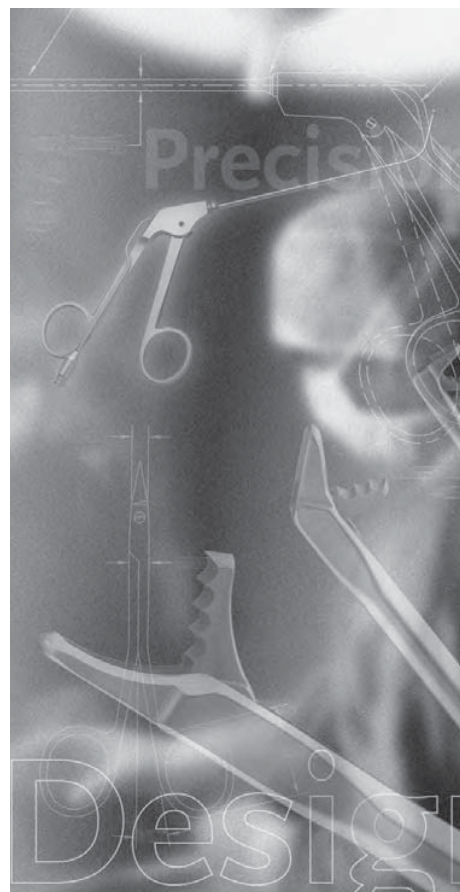
About MicroFrance

MicroFrance was formed in June 1970 to provide customers with premium quality instruments to facilitate new surgical procedures and help improve patient outcomes. From the beginning, MicroFrance's product line focused on ENT surgeons' needs, and its reputation for precision instrumentation quickly grew.

To better serve more customers both internationally and in the US, MicroFrance partnered with Xomed in 1998. A year later, Xomed joined with Medtronic, a world leader in medical technology, and eventually became Medtronic ENT. This partnership has positioned both Medtronic ENT and MicroFrance to help more ENT surgeons improve patient outcomes with precise, premium quality instrumentation.

Quality Policy

Our policy is to provide the highest value to our customers by focusing on continuously improving quality, cost, and delivery of product and services, while maintaining a rewarding work environment for our employees and an effective and compliant quality system.



MICROFRANCE SINUS INSTRUMENTATION

Duncavage Sphenoid Sinus Instrument Set

The Duncavage Sphenoid Sinus Set was developed to allow access to the interior of the sphenoid sinus. These instruments provide the ability to remove cysts and bone, as well as strip mucosa and palpate masses within the sphenoid sinus. Currently, when surgeons are attempting to operate within the sphenoid to remove posterior cells, they are forced to invert frontal sinus instruments in order to access the floor of the sphenoid sinus. All of the Duncavage instruments feature a 25° bend superiorly and a 25° bend inferiorly at the distal tips that allow the surgeon to access the sphenoid sinus quickly and accurately.

The set is composed of:

- 2-cup forceps (MCEN151 and MCEN152), both vertical and horizontal
- Two through-cut forceps (MCEN153 and MCEN154), also both horizontal and vertical
- Two blunt probes (MCEN155 without suction and MCEN156 with suction)
- Two smaller freer elevators (MCEN157 without suction and MCEN158 with suction)
- Reverse-action handles that reduce the amount of movement at the distal tips when actuated

Developed in conjunction with Dean M. Toriumi, MD

Product		Qty
MCEN150	Duncavage Sphenoid Sinus Set	1
Set Includes:		
MCEN151	Duncavage Sphenoid Sinus Vertical Cup Forceps	1
MCEN152	Duncavage Sphenoid Sinus Horizontal Cup Forceps	1
MCEN153	Duncavage Sphenoid Sinus Vertical Thru-cut Forceps	1
MCEN154	Duncavage Sphenoid Sinus Horizontal Thru-cut Forceps	1
MCEN155	Duncavage Sphenoid Sinus Blunt Probe	1
MCEN156	Duncavage Sphenoid Sinus Blunt Probe with Suction	1
MCEN157	Duncavage Sphenoid Sinus Freer Elevator	1
MCEN158	Duncavage Sphenoid Sinus Freer Elevator with Suction	1
37-17002	Instrument Tray, One Level	



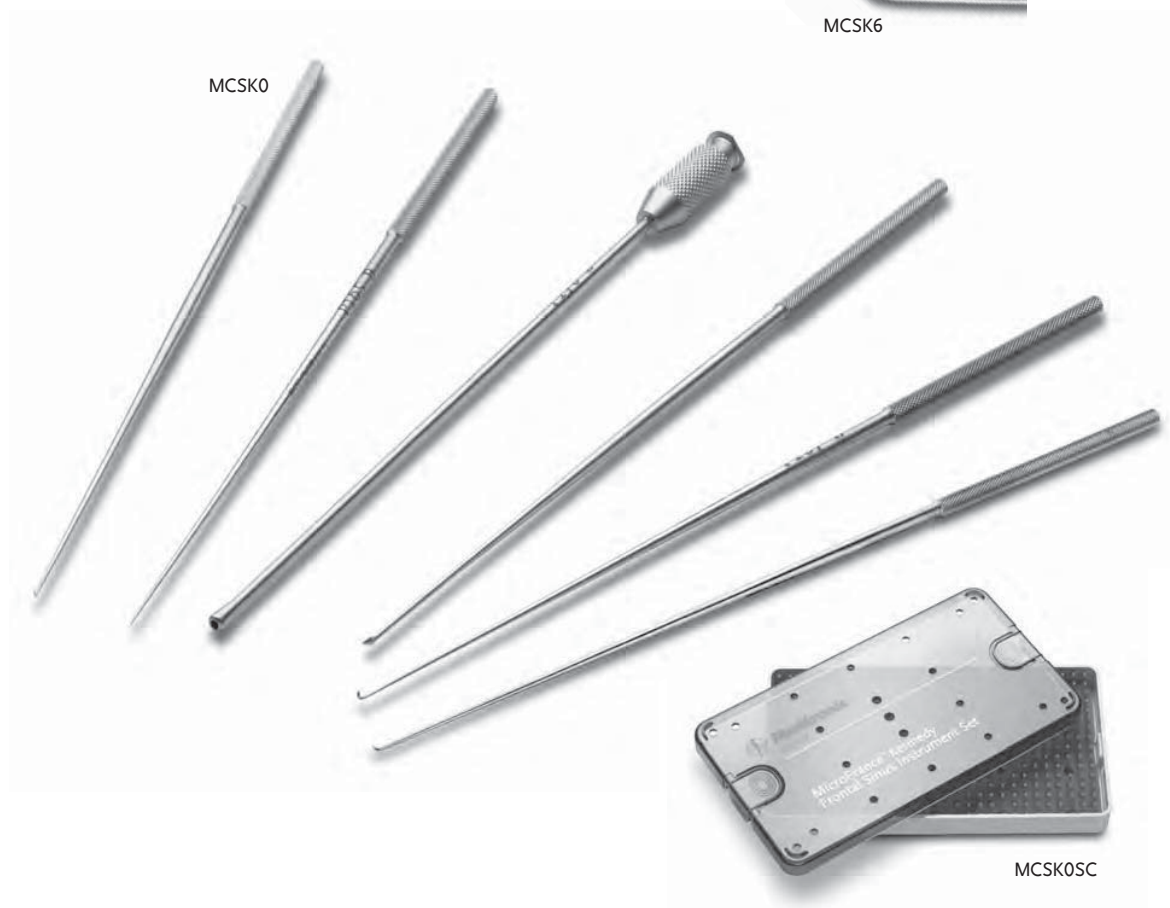
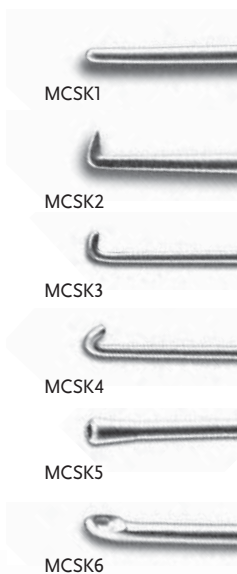
MICROFRANCE SINUS INSTRUMENTATION

Kennedy Frontal Sinus Instrument Set

This ultra-delicate set of malleable instruments has been designed to aid in preservation of mucosa within the frontal recess and frontal sinus. Because of an increasing need for mucous membrane preservation, these instruments are essential for frontal sinus surgery.

Developed in conjunction with David W. Kennedy, MD

Product		Qty
MCSK0	Kennedy Frontal Sinus Surgery Instrument Set	1
<i>Set Includes:</i>		
MCSK1	Malleable Blunt Probe, Rounded Tip Overall Length, 152mm (6")	1
MCSK2	Malleable Sharp Knife Overall Length, 152mm (6")	1
MCSK3	Malleable Hook, Vertical Overall Length, 152mm (6")	1
MCSK4	Malleable Hook, Back Overall Length, 152mm (6")	1
MCSK5	Malleable Suction 6 French	1
MCSK6	Malleable Curette 2.0mm Cup Overall Length, 152mm (6")	1
MCSK0SC	Kennedy Instrument Tray	1



MicroFrance®
Instrumentation

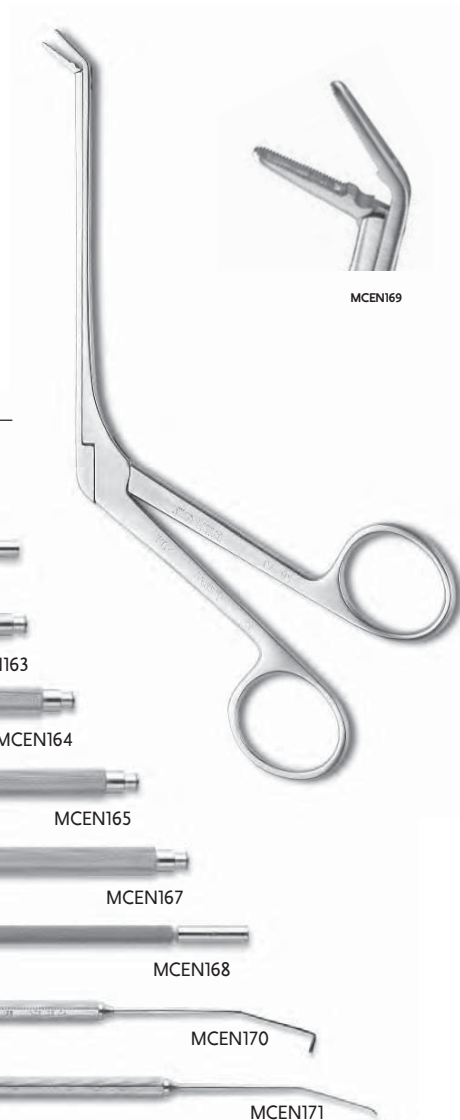
MICROFRANCE SINUS INSTRUMENTATION

Levine Orbital Decompression Instrument Set

The Levine Orbital Decompression Instrument Set is suited for intranasal endoscopic orbital decompression. The Levine Perforator is designed to create the initial opening through the medial orbital wall (lamina papyracea). The 15 degree-angled suction curettes and picks are designed to help gently remove the lamina. The angled sickle knife is intended to incise the periorbita to liberate the orbital fat. The serrated "gentle jaws" of the angled forceps do not completely close, allowing for a firm, yet atraumatic grip to assist in teasing the orbital fat into the sinus cavity without excessive bleeding or injury. The 10-instrument set is provided with an instrument tray.

Developed in conjunction with Howard L. Levine, MD

Product	Qty
MCEN160 Levine Orbital Decompression Instrument Set	1
<i>Set Includes:</i>	
MCEN161 Levine Orbital Ring with Suction Overall Length 209mm (8.2")	1
MCEN162 Levine Orbital Knife Overall Length 187mm (7.4")	1
MCEN163 Levine Orbital Suction Pick, 90° Overall Length 209mm (8.2")	1
MCEN164 Levine Orbital Suction Pick, 45° Overall Length 209mm (8.2")	1
MCEN165 Levine Orbital Suction Pick, 135° Overall Length 209mm (8.2")	1
MCEN167 Levine Orbital Suction Curette, 90° Overall Length 209mm (8.2")	1
MCEN168 Levine Orbital Sickle Knife, 190mm Overall Length 187mm (7.4")	1
MCEN169 Levine Orbital Forceps, 45° Working Length 144mm (5.7")	1
MCEN170 Levine Orbital Curette Dissector Overall Length 250mm (9.8")	1
MCEN171 Levine Orbital Perforator Elevator Overall Length 250mm (9.8")	1
3717002 Instrument Tray, One-Level	1



MICROFRANCE SINUS INSTRUMENTATION

Parsons Minimally Invasive Sinus Instrument Set

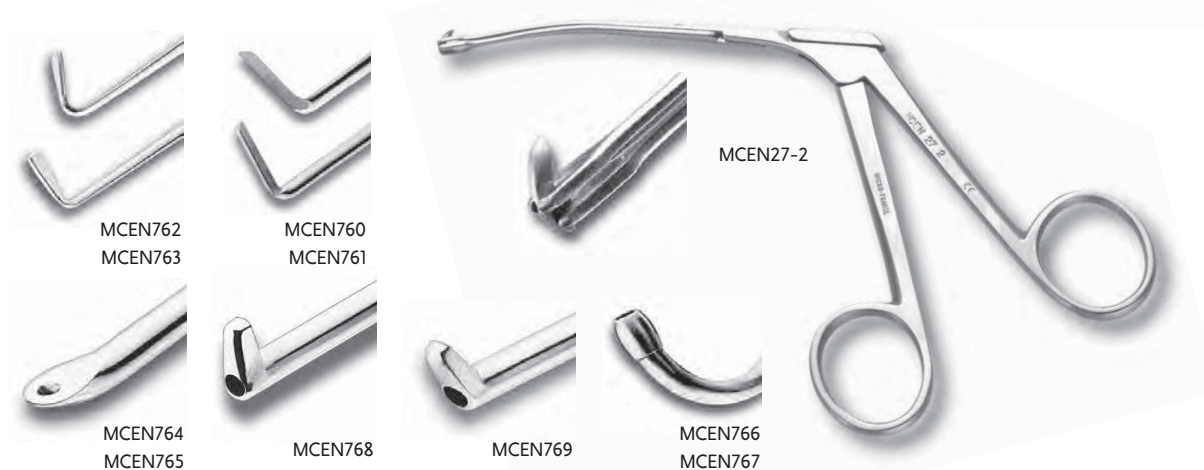
Developed to complement powered sinus surgery instrumentation, the MicroFrance Parsons Minimally Invasive Sinus Set features eleven instruments specially designed for sinus surgery.

Developed in conjunction with David Parsons, MD, FACS, FAAP

Product	Qty
MCEN7600 Minimally Invasive Sinus Set	1
<i>Set Includes:</i>	
MCEN27-2 MicroFrance® Pediatric Backbiting Forceps, Curved Down Overall Length 105mm (4.1") Working Length 90mm (3.5") 1.5mm x 3.0mm Bite	1
MCEN760 Push-Pull Antrostomy Blade, 10mm Overall Length 240mm (9.4") Working Length 75mm (3")	1
MCEN761 Push-Pull Antrostomy Blade, 7mm Overall Length 247mm (9.7") Working Length 75mm (3")	1
MCEN762 Sinus Probe, 30/90°, 7mm Overall Length 245mm (9.6") Working Length 75mm (3")	1
MCEN763 Sinus Probe, 30/90° Flat, 7mm Overall Length 245mm (9.6") Working Length 75mm (3")	1
MCEN764 Suction Elevator, Sharp, 3mm x 8mm Tip Overall Length 190mm (7.5") Working Length 84mm (3.3")	1
MCEN765 Suction Elevator, Dull, 3mm x 8mm Tip Overall Length 190mm (7.5") Working Length 84mm (3.3")	1
MCEN766 Sinus Suction Tube, 3mm Diameter Overall Length 150mm (5.9") Working Length 90mm (3.5")	1
MCEN767 Sinus Suction Tube, 4mm Diameter Overall Length 150mm (5.9") Working Length 90mm (3.5")	1
MCEN768 Suction Curette, 90 Degree, 2mm x 3mm Cup Length 150mm (5.9")	1
MCEN769 Suction Curette, 60 Degree, 2mm x 3mm Cup Length 150mm (5.9")	1
37-17010 One-Level Instrument Tray, 25cm Wide x 53cm Long x 4cm Deep	1
<i>Parsons Minimally Invasive Sinus Instrument Accessories:</i>	
MCEN720 Parson Sharp Hockey Stick Seeker	1
MCEN721 Parson Uncinate Seeker, Angled	1
MCEN723 Parson's Maxillary Seeker, Angled	1



MCEN7600



MCEN762
MCEN763

MCEN760
MCEN761

MCEN764
MCEN765

MCEN768

MCEN769

MCEN766
MCEN767

MCEN27-2

MicroFrance®
Instrumentation

MICROFRANCE SINUS INSTRUMENTATION

Vaughan Suction Sinus Instruments

These unique instruments have been designed to evacuate blood from the surgical site to provide optimal visibility in the most challenging areas of the sinuses, such as the sphenoid sinus and frontal recess. These instruments work particularly well in trans-sphenoidal procedures.

Developed in conjunction with Winston Vaughan, MD

Product	Qty
MCEN116 Suction Mushroom Punch-Soft Tissue, 4mm Diameter, Straight Overall Length 160mm (6.3"), Working Length 122mm (4.8")	1
MCEN118 Suction Mushroom Punch-Soft Tissue, 6mm Diameter, Straight Overall Length 160mm (6.3"), Working Length 122mm (4.8")	1
MCEN117 Suction Mushroom Punch-Soft Tissue, 4mm Diameter, Angled 60 Degrees Up Overall Length 160mm (6.3"), Working Length 130mm (5.1")	1
MCEN110 Mushroom Punch Cleaner Overall Length 121mm (4.8")	1
MCEN120 Suction Sickie Knife with Stylet, 4mm Blade Overall Length 208mm (8.2"), Working Length 105mm (4.1")	1
MCEN111 Suction Pick, 90° Angled Forward with Stylet, 4mm Pick Overall Length 208mm (8.2"), Working Length 105mm (4.1")	1
MCEN112 Suction Pick, 45° Angled Back with Stylet, 4mm Pick Overall Length 208mm (8.2"), Working Length 105mm (4.1")	1
MCEN113 Suction Ring Curette, 3mm Diameter Overall Length 208mm (8.2"), Working Length 105mm (4.1")	1
MCEN114 Suction Cup Forceps, 2mm Diameter Working Length 130mm (5.1")	1
MCEN115-6 Malleable Suction Size #6 French with Stylet Overall Length 165mm (6.5") , Working Length 122mm (4.8")	1
MCEN115-8 Malleable Suction Size #8 French with Stylet Overall Length 170mm (6.7") , Working Length 122mm (4.8")	1
MCEN115-9 Malleable Suction Size #9 French with Stylet Overall Length 170mm (6.7") , Working Length 122mm (4.8")	1
<i>Vaughan Suction Sinus Instrument Accessories:</i>	
37-17002 One-Level Instrument Tray 25cm Wide x 53cm Long x 4cm Deep	1



MCEN110



MCEN112



MCEN113



MCEN114



MCEN120



MCEN118



MCEN111



MCEN116



MCEN117



MICROFRANCE SINUS INSTRUMENTATION

Wormald Frontal Sinus Surgery Instrument Set

This robust yet malleable set of instruments has been designed to aid in preservation of mucosa within the frontal recess and frontal sinus. The set includes five instruments plus a sterilization tray. The working length of each instrument is 11cm with an outer diameter ranging from 2mm - 2.5mm. The last 4cm of each instrument is malleable for better access across a wide range of anatomies. The malleable suction probe, freer suction elevator, and sharp-cupped suction curette have a variable suction design so that the surgeon can control the amount of suction through a thumb-control aperture.

Developed in conjunction with P.J. Wormald, MD

Product		Qty
MCEN136	Wormald Frontal Sinus Surgery Instrument Set	1
<i>Set Includes:</i>		
MCEN130	Wormald Malleable Sinus Probe, Double-Ended	1
MCEN131	Wormald Malleable Suction Probe	1
MCEN133	Wormald Malleable Suction Elevator, Blunt	1
MCEN134	Wormald Malleable Suction Curette, Sharp Cup	1
MCEN135	Wormald Knot Pusher	1
MCEN136SC	Wormald Frontal Sinus Set Instrument Case	1

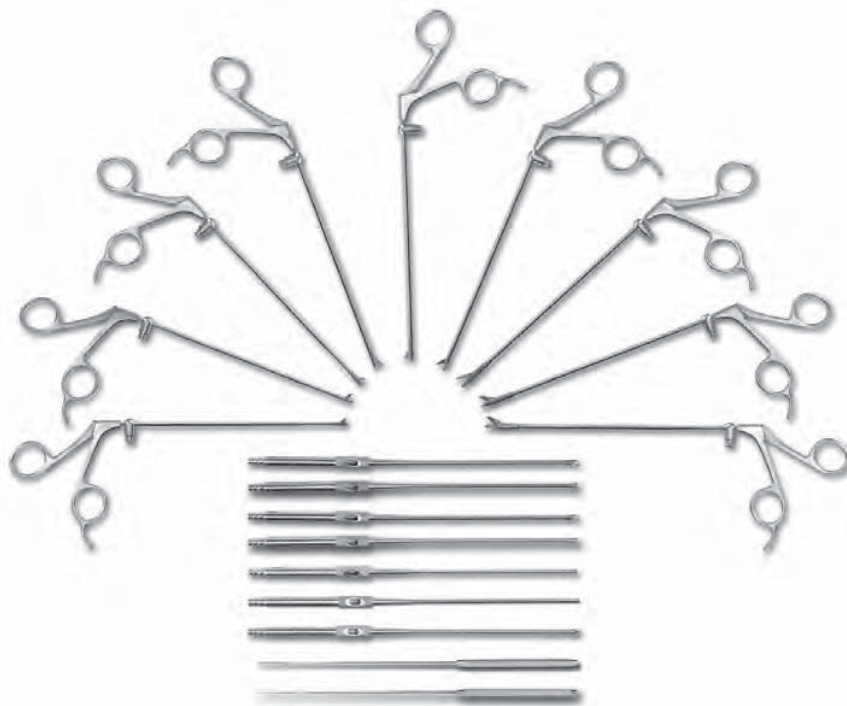
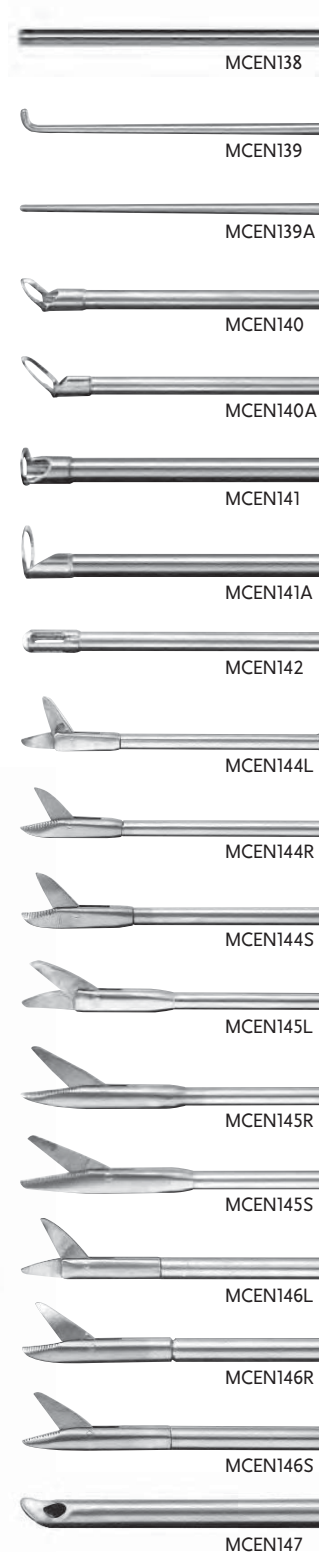


MICROFRANCE SINUS INSTRUMENTATION

Wormald Anterior Skull Base and Pituitary Instrument Set

This set of instruments was designed for use by both otolaryngologists and neurosurgeons in the combined approach to endoscopic anterior skull base and pituitary procedures. The set includes elongated malleable instrumentation with suction for tissue elevation and tumor removal. In addition, the set contains reverse-action scissors of various sizes and orientations for soft tissue and thin bone resection.

Product	Qty
MCEN148	Wormald Anterior Skull Base and Pituitary Instrument Set
Set Includes:	
MCEN138	Wormald Skull Base Malleable Suction Probe 1
MCEN139	Wormald Skull Base Malleable Probe, 90° 1
MCEN139A	Wormald Skull Base Malleable Probe, Straight 1
MCEN140	Wormald Skull Base Malleable Suction Curette, 45°, Small 1
MCEN140A	Wormald Skull Base Malleable Suction Curette, 45°, Large 1
MCEN141	Wormald Skull Base Malleable Suction Curette, 90°, Small 1
MCEN141A	Wormald Skull Base Malleable Suction Curette, 90°, Large 1
MCEN142	Wormald Skull Base Malleable Suction Basket 1
MCEN143	Wormald Skull Base Instrument Tray 1
MCEN144L	Wormald Soft Tissue Scissors, Left, 3mm Blade 1
MCEN144R	Wormald Soft Tissue Scissors, Right, 3mm Blade 1
MCEN144S	Wormald Soft Tissue Scissors, Straight, 3mm Blade 1
MCEN145L	Wormald Thin Bone Scissors, Left, 10mm Blade 1
MCEN145R	Wormald Thin Bone Scissors, Right, 10mm Blade 1
MCEN145S	Wormald Thin Bone Scissors, Straight, 10mm Blade 1
MCEN146L	Wormald Soft Tissue Scissors, Left, 5mm Blade 1
MCEN146R	Wormald Soft Tissue Scissors, Right, 5mm Blade 1
MCEN146S	Wormald Soft Tissue Scissors, Straight, 5mm Blade 1
MCEN147	Wormald Skull Base Malleable Suction Elevator 1

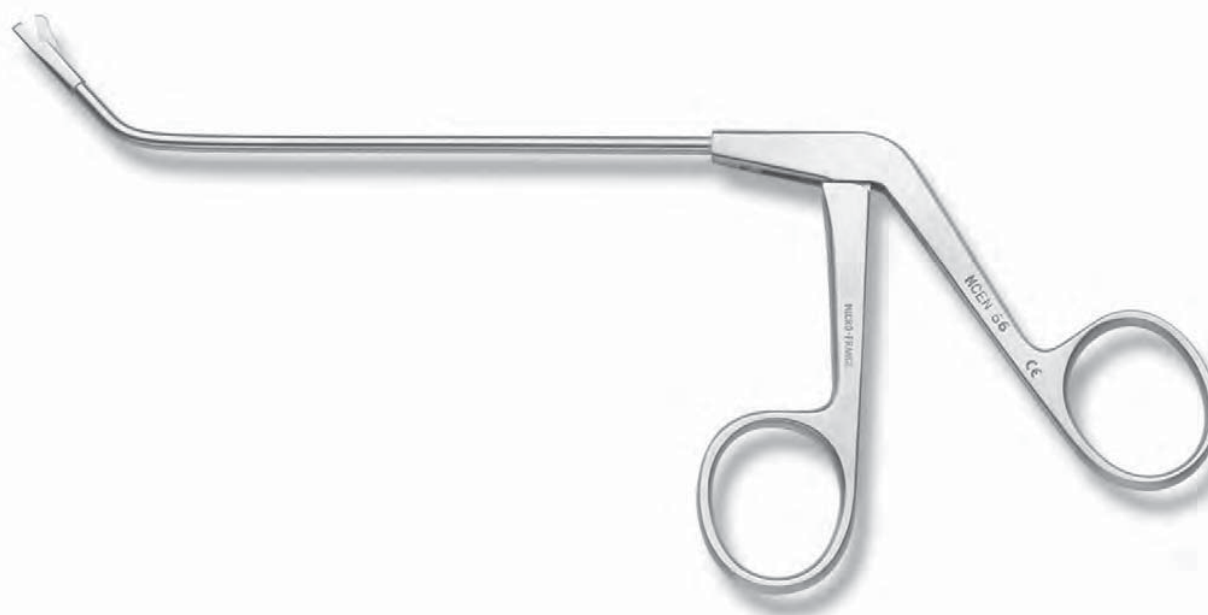


MICROFRANCE SINUS INSTRUMENTATION

Mini-Struycken Through-Cutting Forceps

Delicate through-cutting forceps with a slimmer profile assists in improving access to the frontal recess and frontal sinus to remove cell walls and bony partitions. The forceps are designed in both side-to-side and front-to-back biting configurations with 90 degree and 45 degree bends and with clean-cutting rectangular jaws in the slimmer dimensions of 3mm wide with a 1.5mm wide bite.

Product		Qty
MCEN65	Straight, up opening	1
MCEN66	45°, up opening	1
MCEN67	90°, up opening	1
MCEN67-1	90°, right opening	1
MCEN67-2	90°, left opening	1



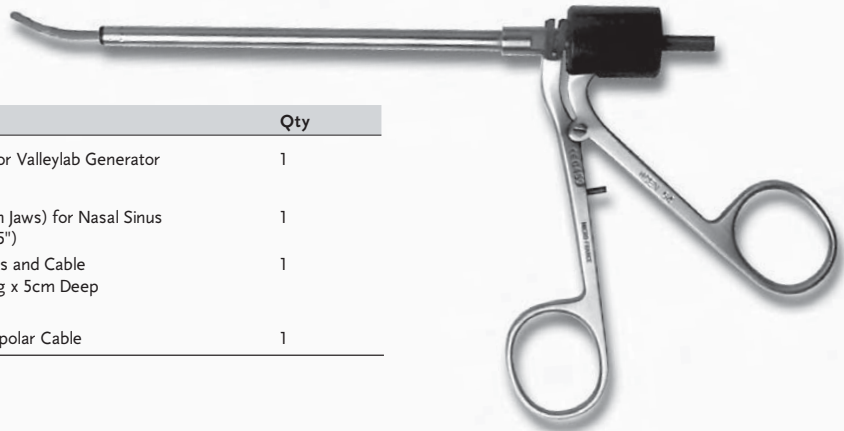
MicroFrance®
Instrumentation

MICROFRANCE SINUS INSTRUMENTATION

Dessi Bipolar Forceps

Hemostasis is one of the biggest challenges in endoscopic sinus surgery. The Dessi Nasal Bipolar Forceps are designed specifically with the sinus surgeon in mind. The delicate design of the tip allows access to even the most difficult areas of the nasal cavity, and bipolar cauterization ensures that the energy is delivered in the most controlled manner possible.

developed in conjunction with Patrick Dessi, MD



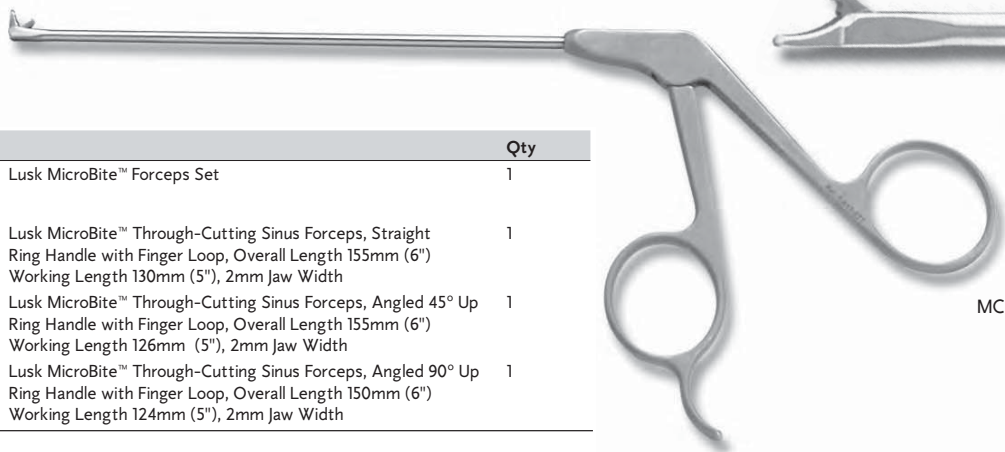
Product		Qty
MCEN54K	Dessi Bipolar Forceps Set for Valleylab Generator	1
<i>Set Includes:</i>		
MCEN54	Dessi Bipolar Forceps (6mm Jaws) for Nasal Sinus Working Length 115mm (4.5")	1
MCEN540	Instrument Tray for Forceps and Cable 17.5cm Wide x 28.5cm Long x 5cm Deep	1
<i>and one cable:</i>		
CP393	Bifurcated (banana plug) Bipolar Cable	1

Forceps, Tray and Cable also sold separately

Lusk MicroBite™ Forceps

The MicroFrance Lusk MicroBite Through-Cutting Sinus Forceps have been designed to precisely resect the anterior and medial wall of the ethmoid bulla with minimal damage to delicate mucosa overlying the lamina papyracea. These forceps are sized appropriately for pediatric or adult surgery (2.7mm outside jaw width, 1.3mm bit width), and their precise cutting action allows for sharp resection of mucosa with minimal stripping of mucosa.

developed in conjunction with Rodney P. Lusk, MD



Product		Qty
MCEN76	Lusk MicroBite™ Forceps Set	1
<i>Set Includes:</i>		
MCEN73	Lusk MicroBite™ Through-Cutting Sinus Forceps, Straight Ring Handle with Finger Loop, Overall Length 155mm (6") Working Length 130mm (5"), 2mm Jaw Width	1
MCEN74	Lusk MicroBite™ Through-Cutting Sinus Forceps, Angled 45° Up Ring Handle with Finger Loop, Overall Length 155mm (6") Working Length 126mm (5"), 2mm Jaw Width	1
MCEN75	Lusk MicroBite™ Through-Cutting Sinus Forceps, Angled 90° Up Ring Handle with Finger Loop, Overall Length 150mm (6") Working Length 124mm (5"), 2mm Jaw Width	1

MICROFRANCE SINUS INSTRUMENTATION

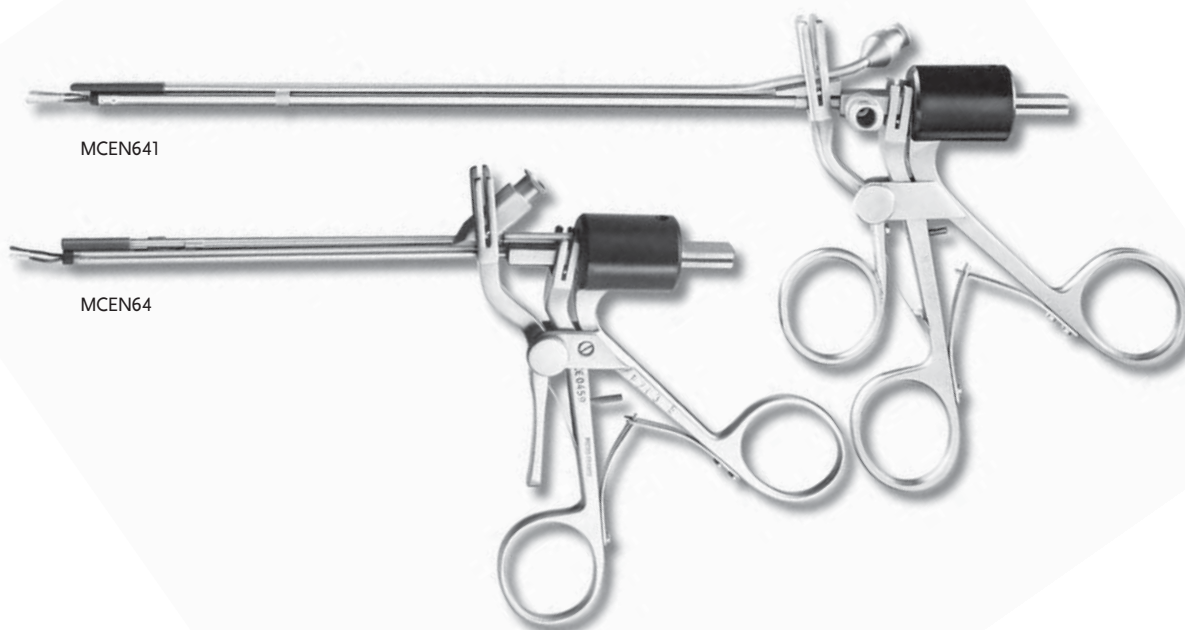
Wormald Bipolar Forceps with Suction

The MicroFrance® Wormald Bipolar Forceps with Suction are similar in design to the Dessi Bipolar Forceps (MCEN54), but feature an integrated suction tube with a trigger mechanism. The trigger mechanism can be independently advanced into the surgical site to maximize visualization and suction blood or drainage away from the site prior to delivering bipolar energy. A standard Luer-lock connector is attached to the suction tube for universal connection to various suction devices.

Developed in conjunction with P.J. Wormald, MD

Product		Qty
MCEN641K	Wormald Bipolar Forceps with Suction Set, 170mm	1
<i>Set Includes:</i>		
MCEN641	Wormald Bipolar Forceps with Suction, 170mm	1
MCEN640	Instrument Tray	1
CP393	Bifurcated (banana plug) Bipolar Cable	1
MCEN64K	Wormald Bipolar Forceps with Suction Set, 105mm	1
<i>Set Includes:</i>		
MCEN64	Wormald Bipolar Forceps with Suction, 105mm	1
MCEN640	Instrument Tray	1
CP393	Bifurcated (banana plug) Bipolar Cable	1

Forceps, Tray and Cable also sold separately



MICROFRANCE SINUS INSTRUMENTATION

Clip-Aplying Forceps

Severe episodes of epistaxis originate posteriorly, from branches of the sphenopalatine and anterior ethmoid arteries. These cases require aggressive intervention, which includes surgical ligation of the nasal blood supply. The MicroFrance Rotatable Clip-Aplying Forceps add the additional feature of giving the surgeon the ability to adjust the tip and shaft 360° for better access and placement of the clips. The adjustable screw at the rear of the forceps allows for the adjustment of the opening of the jaws. The shaft of the MicroFrance Rotatable Clip-Aplying Forceps is also longer (130mm) than the standard MicroFrance Clip-Aplying Forceps (117mm).

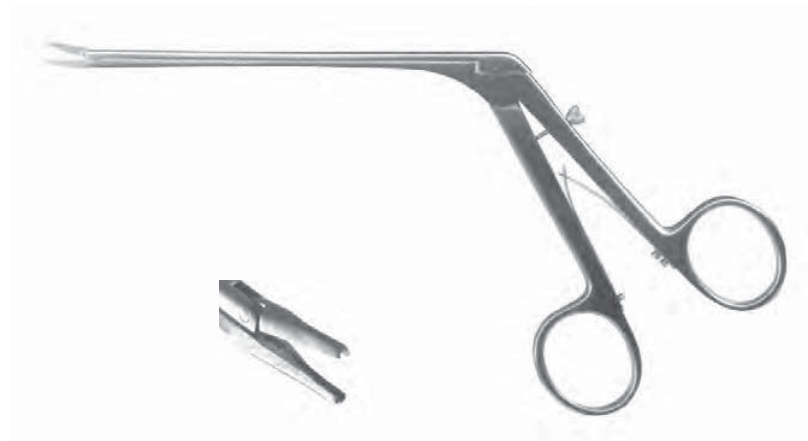
*Compatible with Ethicon Medium Clips LT.200

Product		Qty
MCEN21R	MicroFrance Rotatable Clip Applying Forceps	1
MCEN21	Non-Rotatable Clip-Aplying Forceps	1



Clip Applicator

Product		Qty
MCEN21	Clip Applicator Forceps	1



MICROFRANCE SINUS INSTRUMENTATION

Suction Tubes

Monopolar Suction Tube

Product	Qty
MCEN100-2-5 Monopolar Suction Tube, Diameter 2.5mm	1
MCEN100-3-0 Monopolar Suction Tube, Diameter 3mm	1



Suction Tube Elevator

Product	Qty
CP337 Suction Tube Elevator	1



Guillen Suction Tube Elevator

Product	Qty
CP337-1 Guillen Suction Tube Elevator	1



MICROFRANCE SINUS INSTRUMENTATION

Suction Tubes

Rouvier Suction Elevator

Product	Qty
MCEN10 Rouvier Suction Elevator	1



MCEN10

Suction Tube Blunt Malleable

Product	Qty
MCEN37-1-20 Suction Tube, Blunt, Malleable, Diameter 2mm	1
MCEN37-1-25 Suction Tube, Blunt, Malleable, Diameter 2.5mm	1
MCEN37-1-30 Suction Tube, Blunt, Malleable, Diameter 3mm	1



MCEN37-1-30

Suction Tube, "S" Blunt Malleable

Product	Qty
MCEN37-2-0 Suction Tube "S", Blunt, Malleable, Diameter 2mm	1
MCEN37-2-5 Suction Tube "S", Blunt, Malleable, Diameter 2.5mm	1
MCEN37-3-0 Suction Tube "S", Blunt, Malleable, Diameter 3mm	1



MCEN37-3-0

Suction Tube

Product	Qty
MCEN23-2-5 Suction Tube, Diameter 2.5mm	1
MCEN77-3-0 Suction Tube With Finger Control, Diameter 3mm	1
MCEN23-3-0 Suction Tube, Diameter 3mm	1



MCEN23-3-0



MCEN77-3-0

MICROFRANCE SINUS INSTRUMENTATION

Knives

Friedrich Knife

Product	Qty
MCEN44 Friedrich Knife	1



MCEN44

Ballenger Knife

Product	Qty
CP622-4 Ballenger Nasal Cartilage Knife, 4mm	1



CP622-4

Forceps

Luc Nasal Forceps Fenestrated Jaws

Product	Qty
7761B-1 Luc Nasal Forceps Fenestrated Jaws N°1	1
7761B-2 Luc Nasal Forceps Fenestrated Jaws N°2	1



7761B-1

Ruskin Cutting Forceps

Product	Qty
CP381 Ruskin Bone Cutting Forceps, 160mm	1



CP381

Citelli Punch Forceps

Product	Qty
7764 Citelli Punch Forceps	1



7764

Citelli Freche Forceps

Product	Qty
MCEN12 Citelli Freche Forceps	1



MCEN12

MicroFrance® Instrumentation

MICROFRANCE SINUS INSTRUMENTATION

Forceps

Citelli Peynegre Forceps

Product	Qty
MCEN98 Citelli Forceps	1



MCEN98

Blakesley Forceps

Product	Qty
7762-1 Blakesley Forceps, Straight N°1	1
7762A-1 Blakesley Forceps, 45° N°1	1
7762B-1 Blakesley Forceps, 90°	1
7763-1 Blakesley Forceps, 45° Pediatric	1



7762-1

7762-1

7762A-1



7763-1

Fenestrated Forceps

Product	Qty
MCEN34 Fenestrated Forceps, 45°	1



MCEN34

Fenestrated Forceps

Product	Qty
MCEN33 Fenestrated Forceps Straight	1



MCEN33

MICROFRANCE SINUS INSTRUMENTATION

Forceps

Large Fenestrated Forceps

Product		Qty
MCEN90	Large Fenestrated Forceps, Straight	1
MCEN91	Large Fenestrated Forceps, 45°	1
MCEN91B	Large Fenestrated Forceps, 45° Long	1



Ostrom Terrier Forceps

Product		Qty
MCEN27	Ostrom Terrier Forceps	1
MCEN27-1	Ostrom Terrier Forceps, Fine	1
MCEN27-2	Ostrom Terrier Forceps, Pediatric	1



Rouvier Forceps, Serrated Jaws

Product		Qty
MCEN18	Rouvier Forceps, Serrated Jaws	1

Rouvier Cup Forceps

Product		Qty
MCEN4	Rouvier Cup Forceps, Spoon-Shaped Jaws	1



Rouvier Forceps

Product		Qty
MCEN5	Rouvier Forceps, 45° Spoon-Shaped Jaws	1
MCEN5B	Rouvier Forceps, 45° Long Jaws	1



Fine Cup Forceps

Product		Qty
MCEN35	Fine Cup Forceps, 70°	1
MCEN36	Fine Cup Forceps, 90°	1



MicroFrance®
Instrumentation

MICROFRANCE SINUS INSTRUMENTATION

Curettes

Lima Curette

Product	Qty
7774 Lima Curette, Diameter 4mm	1



7774

Elevators

Suction Tube Elevator

Product	Qty
CP337 Suction Tube Elevator	1



CP337

Guillen Suction Tube Elevator

Product	Qty
CP337-1 Guillen Suction Tube Elevator	1



CP337-1

Rouvier Suction Elevator

Product	Qty
MCEN10 Rouvier Suction Elevator	1



MCEN10

Freer Elevator

Product	Qty
CP611 Freer Elevator, Double-Ended	1



CP611

Cottle Elevator

Product	Qty
CP626 Cottle Elevator, Double-Ended	1



CP626

MICROFRANCE SINUS INSTRUMENTATION

Miscellaneous

Albertini Sinus Trocar

Product	Qty
7771 Albertini Sinus Trocar, Straight, 3mm	1



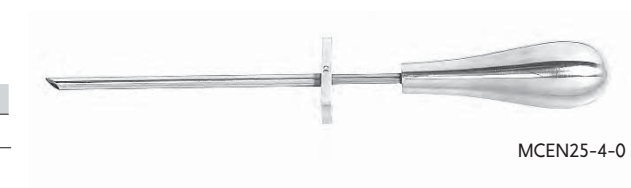
Albertini Sinus Drain

Product	Qty
7771B Albertini Sinus Drain Guide	1



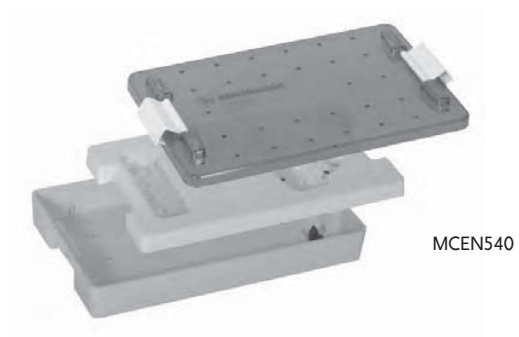
Rouvier Trocar

Product	Qty
MCEN25-4-0 Rouvier Trocar, Diameter 4mm	1



Dessi Instrument Case

Product	Qty
MCEN540 Dessi Instrument Case	1



MicroFrance®
Instrumentation

MICROFRANCE OTOTOLOGY INSTRUMENTATION

J. B. Causse Middle Ear Instrument Set

The J. B. Causse Instrument Set is used to restore normal functionality to the middle ear, specifically using the Causse surgical technique for a stapedectomy.

Developed in conjunction with Jean-Bernard Causse, MD

Product	Qty
MCO649 MicroFrance J. B. Causse Middle Ear Instrument Set	1
<i>Set includes:</i>	
MCO4A Micro Scissors, 2mm Blades Working Length 71mm	1
MCO13C Micro Alligator Forceps, 3mm Long, Extremely Fine Jaws Working Length 71mm	1
MCO27 Deiter Malleus Nipper, Extremely Fine Bite Working Length 75mm	1
MCO658 Cupped Piston Forceps, Extremely Fine Cupped Jaws Working Length 71mm	1
MCO651 V-Shaped Canal Knife, Bent Shaft, 3mm Long Blade Overall Length 162mm, Working Length 58mm	1
MCO652 Round Canal Knife, Straight Shaft, 3mm Diameter Overall Length 164mm, Working Length 59mm	1
MCO655 Bone Curette, 1mm x 2mm Cup Overall Length 160mm, Working Length 50mm	1
MCO656 Incudostapedial Joint Knife Overall Length 165mm, Working Length 60mm	1
MCO657 Curved Pick, 3mm Tip Overall Length 157mm, Working Length 82mm	1
MCO664 Perpendicular Hook, Short, Angled Shaft, Hook Angled Up Overall Length 161mm, Working Length 60mm	1
MCO665 Perpendicular Hook, Long, Angled Shaft, Hook Angled Up Overall Length 163mm, Working Length 60mm	1
MCO666 Curved Pick, Semi-Sharp, 3mm Tip Overall Length 162mm, Working Length 57mm	1
MCO12D Causse Measuring Instrument, 4mm Tip Overall Length 165mm, Working Length 60mm	1
MCO667 Causse Elevator, 2mm x 3mm Angled Tip Overall Length 165mm, Working Length 60mm	1
MCO660-10 Vein Preparation Plate, 1mm Hole 65mm Wide x 65mm Long x 4mm Thick	1
MCO213-4 Graduated Prosthesis Cutting Block 117mm x 11mm	1
MCO820 Martin Vein Press, 20mm Diameter Press Area	1
MCO649SC Causse Instrument Tray (includes Forceps and Picks Level) Small Instrument Finger Mat Level, and Ear Specula and Fingermat Level) 25cm Wide x 52.5cm Long x 10cm Deep	1
<i>J.B. Middle Ear Instrument Set Accessories:</i>	
MCO100 NTSC Video	1
MCO100P Causse Middle Ear Instrument Set Video (PAL)	1



MCO4A



MCO13C



MCO27



MCO658



MCO651



MCO652



MCO655



MCO656



MCO657



MCO664 Short



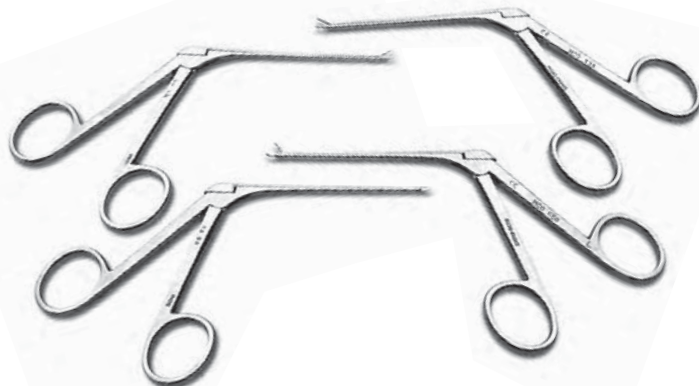
MCO665 Long



MCO666



MCO12D



MICROFRANCE OTOTOLOGY INSTRUMENTATION

House Otolary Instrument Set

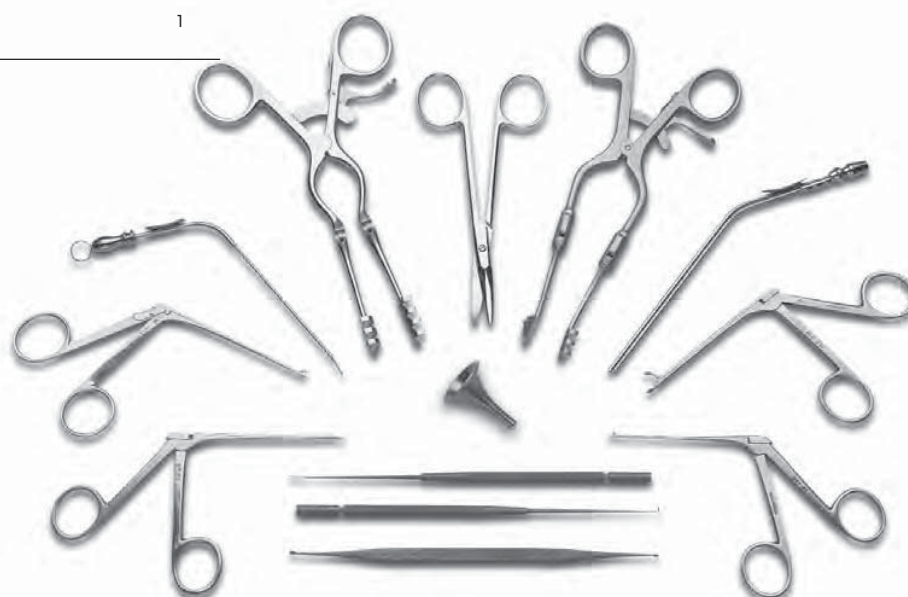
The House Otolary Instrument Set combines the quality and innovation of MicroFrance with the elite reputation of the House Ear Institute to provide you with this complete otology instrument set.

Developed in conjunction with Dr. John House, MD, of the House Ear Institute

Product		Qty
MCOH0	House Otolary Instrument Set	1
<i>MicroFrance instruments included in set:</i>		
MCO6B	Hook, 90 Deg., .7mm Overall Length 165mm	1
MCO205	Footplate Hook, .3mm Overall Length 165mm	1
MCO805A	Ball-tipped Hook, 2.5mm Overall Length 165mm	1
MCO6	Plester Flat Micro-Knife Overall Length 165mm	1
MCO10	Sickle Knife Overall Length 165mm	1
MCO807	Hook, Blunt, 45°, 1mm Overall Length 165mm	1
MCO5A	Micro-Knife, 135°, 1.0mm, 2.0mm, or 2.5mm Overall Lengths 165mm	1
MCO313	Rosen Knife	1
3714780	Dissector, 3mm	1
MCO7-1	Double-Ended, Straight Curette, Size 1 & 2 Overall Length 165mm	1
MCO7-3	Double-Ended, Straight Curette, Size 3 & 4 Overall Length 165mm	1
MCO7A-1	Double-Ended, Angled Curette Size 1, 2	1
MCO7A-3	Double-Ended, Angled Curette Size 3, 4	1
MCO5A-1-0	Micro-Knife, 135° 1.0mm diameter	1
MCO5A-2-0	Micro-Knife, 135° 2.0mm diameter	1
MCO5A-2-5	Micro-Knife, 135° 2.5mm diameter	1



MCOH0
House Otolary Instrument Set



MicroFrance® Instrumentation

MICROFRANCE OTOTOLOGY INSTRUMENTATION

House Otology Instrument Set (continued)

Product		Qty
MCO27	House-Dieter Malleus Nipper 2mm jaws Length of shaft 75mm Overall Length 125mm	1
MCO21H	Micro-Cupped Forceps, 2.5mm Overall Length 130mm	1
MCO21	Micro-Cupped Forceps, 1.0mm Overall Length 125mm	1
MCO4	Micro-Scissors Straight blade, 4mm Overall Length 125mm	1
MCO4A	Micro-Scissors, Delicate Straight blade, 3mm Overall Length 125mm	1
MCO13A	Hartmann Alligator Micro-Forceps Overall Length 125mm	1
MCO313	Rosen Knife, 135° Overall Length 165mm	1
MCEN50	Rouvier Elevator and Knife, Sharp and Dull	1
7781	Beckmann Retractor Overall Length 165mm Maximum Spread 100mm 180° Arm Rotation 4 Prong Right, 3 Prong Left	1
MCO32	Needle, slightly curved Overall Length 165mm	1
Set also includes:		
37-22058	Barbara Pick Overall Length 165mm	1
37-24061	Sheehy Fascia Press 23 x 31mm Plates Overall Length 191mm (7.5")	1
37-22065	House Excavator, Malleable Shaft Blunt, 0.33 Tip Angled 90°	1
37-22062	Strut Pick, Malleable Shaft Sharp, .50mm Point Angled 90°	1
37-40000	Knife Handle No. 3, Overall Length 125mm (4.9")	2
Farrior Speculums, Oval:		
37-24108	Size 1 (4.5 x 6mm)	1
37-24109	Size 2 (5.5 x 7mm)	1
37-24110	Size 3 (6.5 x 8mm)	1
37-24111	Size 4 (7.5 x 9mm)	1
37-24112	Size 5 (8 x 10mm)	1
37-24113	Size 6 (9 x 11.25mm)	1
37-24114	Size 7 (10 x 12.5mm)	1
Hartman Speculums, Round:		
37-24141	Size 1 (4mm)	1
37-24142	Size 2 (5mm)	1
37-24143	Size 3 (6mm)	1
37-24144	Size 4 (7mm)	1
Baron Suction Tubes:		
· Thumb-plate cutoff		
· Working Length 75mm (3")		
· Stylette included		
· Overall Length 130mm (5.125")		
37-24172	Regular, 3 French	2
37-24173	Regular, 5 French	2
37-24175	Regular, 7 French	2



MCO32
Needle

37-24172
37-24173
37-24175
Baron Suction Tubes

MCO6
Plester Flat Micro-Knife

MCO21
Micro-Cupped Forceps

MCO10
Sickle Knife

MCO4
MCO4A
Micro-Scissors

MCO807
Hook

MCO13A
Hartmann Alligator Micro-Forceps

MCO5A
Micro-Knife

MCO313
Rosen Knife

37-22058
Barbara Pick

37-24214
37-24215
Guilford-Wright Suction Tubes

37-24108
37-24109
37-24110
37-24111
37-24112
37-24113
37-24114
Farrior Speculums

37-24221
37-24222
37-24223
37-24218
37-24224
37-24219
37-24225
37-24220
37-24226
House Suction Irrigators

37-24141
37-24142
37-24143
37-24144
Hartmann Speculums

37-24216
House Cutoff Adapter

MICROFRANCE OTOLOGY INSTRUMENTATION

House Otolary Instrument Set (continued)

Product	Qty
Guilford-Wright Suction Tubes:	
· Working Length 105mm (4.2")	
· Overall Length 75mm (3")	
· Stylette included	
37-24214 22 Gauge	2
37-24215 24 Gauge	2
37-24216 House Cutoff Adapter, 50mm (2")	1
House Suction Irrigators:	
· Thumb-plate with cutoff hole for suction	
37-24218 2.5 x 4 French, 70mm	1
37-24219 2.5 x 4 French, 95mm	1
37-24220 4 x 5 French, 70mm	1
37-24221 4 x 5 French, 95mm	1
37-24222 5 x 7 French, 95mm	1
37-24223 6 x 8 French, 95mm	1
37-24224 7 x 10 French, 95mm	1
37-24225 8 x 12 French, 95mm	1
37-24226 12 x 14 French, 95mm	1
House-Baron Suction Tubes, Extra Long:	
· Thumb plate with cutoff hole for suction	
37-24177 3 French, Working Length 90mm (3.5")	1
37-24178 5 French, Working Length 90mm (3.5")	1
37-14019 Joseph Skin Hook, Single Hook Overall Length 160mm (6.25") 4mm Single	1
37-22117 Pick, 3mm curve from tip	1
37-24013 Buck Ear Curette, Angle, Dull Overall Length 152mm (6") Size 1, 2.0mm	1
37-24003 Buck Ear Curette, Angle, Sharp Overall Length 152mm (6") Size 1, 2.0mm	1
37-22038 Sheehy Knife Curette 2mm Diameter Semi-Sharp Blade also known as "Small Weapon"	1
37-22020 Foot Plate Pick Tip Angled 45 Degrees	1
37-22037 Lancet Knife (#2 Knife) 2mm x 3mm Tapered Tip, Angled 45°	1
37-24282 Myringotomy Knife Overall Length 165mm (6.5") Hexagonal Handle, 8mm Straight Blade	1
37-22040 Tympanoplasty Knife 7mm Curved Blade	1
37-22042 Incudostapedial Joint Knife 0.5mm x 1.5mm Blade Angled 20°	1
37-22055 Needle Sharp, Light Curve	1
37-24058 House Billeau Ear Loop 3.5 Oval Loop Overall Length 165mm (6.5")	1
37-22061 Oval Window Pick, Malleable Shaft 0.66mm Point Angled 90°	1
37-22063 Oval Window Pick, Malleable Shaft 0.66mm Point Angled 30°	1
37-22046 Separator Bayonet-Style Shaft Wide, 1.5mm Curved Blade, Scraping Tip	1



MicroFrance® Instrumentation

MICROFRANCE OTOLOGY INSTRUMENTATION

House Otolary Instrument Set (continued)

Product	Qty
37-22047 Separator Bayonet-style Shaft Narrow, 1.25mm Curved Blade, Scraping Tip	1
37-22048 Elevator ("Gimmick") 1mm x 12mm Tip, Angled 15°	1
37-22115 Duckbill Elevator (Bone Spatula) 3.5mm Wide Slightly Curved Sharp Blade	1
37-24060 Lempert Elevator 7mm Curved Tip Overall Length 184mm (7.25")	1
37-22075 Wire Strut Guide 0.6mm Long Tip, Notched at End	1
37-22078 Measuring Rod, Malleable Shaft 4.0mm from Marker to Tip	1
37-22079 Measuring Rod, Malleable Shaft 4.5mm from Marker to Tip	1
37-41181 Iris Scissors, Curved Overall Length 105mm (4.125")	1
37-53008 Scissors, 8mm 19mm Serrated Blades Overall Length 145mm (5.7") Straight	1
37-13001 Fomon Nasal Scissors Semi-Sharp Outer Edges, Blunt Tips Overall Length 127mm (5") Tungsten Carbide Blades, Serrated	1
37-41032 Stitch Scissors, Ribbon Type Needle Points, (3.875")	1
House-Bellucci Scissors, Fine:	
· 5mm Blades	
· Working Length 87mm (3.4")	
37-24083 Straight	1
37-24084 Curved Left	1
37-24085 Curved Right	1
37-40025 Adson Tissue Forceps Overall Length 121mm (4.75") 1 x 2 Teeth, Standard Pattern	1
37-21014 Bellucci Alligator Forceps, Fine Working Length 87mm (3.4") Angled Serration	1
37-21025 Alligator Forceps, Very Fine Working Length 82mm (3.2") 6mm, Jaws Straight	1
37-21009 McGee Malleus Crimper, Very Fine Working Length 82mm (3.2") 3mm Jaws	1
37-14783 House-Crabtree Dissector Pick Flattened tip, Angled 90° Overall Length 168mm	1
13-52247 House Retractor, Left Overall Length 165mm Maximum Spread 80mm 180° Arm Rotation 3 Blunt Prongs Right, Spiked Blade Left	1
13-52248 House Retractor, Right Overall Length 165mm Maximum Spread 80mm 180° Arm Rotation 3 Blunt Prongs Left, Spiked Blade Right	1
MCOH0SC House Otolary Instrument Tray	1
37-17022 Pick Tray Holds 16 instruments	2



MICROFRANCE™ OTOLOGY INSTRUMENTATION

House Otology Instrument Set (continued)

Included in set, but not pictured:

Product		Qty
37-14780	Dissector, 3mm 3mm Diameter Tip Overall Length 220mm	1
37-14781	Perkins Elevator, Forward Scratcher 1.25 x 2.5mm Blade, 20° Forward Scratcher Overall Length 168mm	1
37-14782	Perkins Elevator, Back Scratcher 1.25 x 2.5mm Blade, 135° Back Scratcher Overall Length 168mm	1



37-40025

Adson Tissue Forceps



37-21014

Bellucci Alligator Forceps



37-53008

Scissors



37-21025

Alligator Forceps



37-21009

McGee Malleus Crimper



13-52247

House Retractor



13-52248

House Retractor

Additional MicroFrance® Otology Instruments Available:

California Ear Institute Ossiculoplasty Sizer Set

A complete sizer set for Ossicular Reconstruction Surgery. The instrument set includes an instrument tray and 13 malleable sizers beginning with 2.0mm up to 8mm in 0.5 mm increments.

These precise measuring instruments may be used as a guide for cutting prostheses or to ensure selection of the correct pre-sized prostheses.

Designed in conjunction with Joseph B. Roberson, MD, of the California Ear Institute at Stanford

Product		Qty
MCOR15	CA Ear Institute Ossiculoplasty	1
<i>Set includes:</i>		
MCOR15SC	Custom Tray	1
MCOR20	Ossiculoplasty Sizer, 2mm	1
MCOR25	Ossiculoplasty Sizer, 2.5mm	1
MCOR30	Ossiculoplasty Sizer, 3mm	1
MCOR35	Ossiculoplasty Sizer, 3.5mm	1
MCOR40	Ossiculoplasty Sizer, 4mm	1
MCOR45	Ossiculoplasty Sizer, 4.5mm	1
MCOR50	Ossiculoplasty Sizer, 5mm	1
MCOR55	Ossiculoplasty Sizer, 5.5mm	1
MCOR60	Ossiculoplasty Sizer, 6mm	1
MCOR65	Ossiculoplasty Sizer, 6.5mm	1
MCOR70	Ossiculoplasty Sizer, 7mm	1
MCOR75	Ossiculoplasty Sizer, 7.5mm	1
MCOR80	Ossiculoplasty Sizer, 8mm	1



MCOR60

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Selesnick Lateral Skull Base Set

Anatomically complex and poorly accessible, the skull base requires special instrumentation that has been crafted to meet these unique challenges. The MicroFrance Selesnick Lateral Skull Base Set has been designed to give the surgeon the ability to safely and effectively dissect in this deep surgical field.

The set is composed of 24 different instruments, including hooks, round dissectors, spatula dissectors, elevators, micro-curettes, whirleybird picks, cup forceps, and an Angot-Vanecloo Retractor with malleable blade for brain retraction as well as the MicroFrance Bipolar Neurotology Coagulating Forceps. All of these have been designed specifically for lateral skull base surgery. The instruments have slim profiles for superior access, and offer a range of working tips for exceptional control and precision in previously difficult-to-reach areas.

Developed in conjunction with Samuel H. Selesnick, MD, FACS

Product	Qty
MCOS10 Selesnick Lateral Skull Base Set	1
<i>Set includes:</i>	
MCOS14 Selesnick Hook 45°, Semi-Sharp	1
MCOS15 Selesnick Hook 90°, Semi-Sharp	1
MCOS16 Selesnick Hook 90°, Blunt	1
MCOS17 Selesnick Dissector, Round 1mm	1
MCOS18 Selesnick Dissector, Round 2mm	1
MCOS19 Selesnick Dissector, Round 3mm	1
MCOS20 Selesnick Elevator, Angled	1
MCOS21 Selesnick Elevator, Curved	1
MCOS22 Selesnick Spatula-Dissector, Small	1
MCOS23 Selesnick Spatula-Dissector, Large	1
MCOS25 Selesnick Micro Curette, Straight	1
MCOS26 Selesnick Micro Curette, Angle	1
MCOS27 Selesnick Cup Forceps, 1mm	1
MCOS29 Selesnick Cup Forceps, 3mm	1
MCOS30 Whirleybird Pick, Selesnick, Left	1
MCOS31 Whirleybird Pick, Selesnick, Right	1
MCOS32 Selesnick Sickle Knife, 5mm	1
MCOS33 Selesnick Dissecting Scissors, Straight	1
MCOS34 Selesnick Dissecting Scissors, Up	1
MCOS35 Selesnick Dissecting Scissors, Left	1
MCOS36 Selesnick Dissecting Scissors, Right	1
MCOS10SC Selesnick Skull Base Sterilization Case	1
3717022 Pick Tray	1
MCO291 Neurotology Coagulating Bipolar Forceps	1
MCO351 Angot-Vanecloo Retractor	1



MICROFRANCE OTOTOLOGY INSTRUMENTATION

Selesnick Lateral Skull Base Set (continued)



MCOS27
Selesnick Cup Forceps



MCOS33
Selesnick Dissecting Scissors Straight



MCOS35
Selesnick Dissecting Scissors Left



MCOS29
Selesnick Cup Forceps



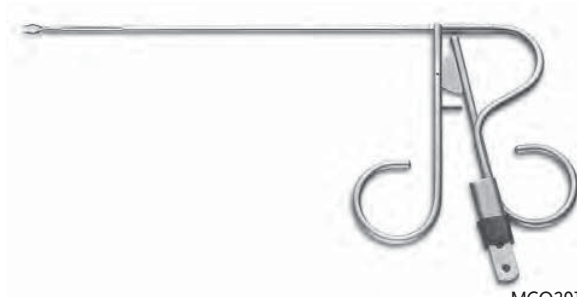
MCOS34
Selesnick Dissecting Scissors Up



MCOS36
Selesnick Dissecting Scissors Right



MCOS27
Selesnick Cup Forceps



MCO291
Neurotology Bipolar Forceps



MCO351
Angot-Vanedoo Retractor

MICROFRANCE OTOLGY INSTRUMENTATION

Wiet Chronic Ear/Stapes Surgery Set

This microsurgical instrument set has a complete variety of otology instruments that will allow the surgeon to perform most ear surgeries. The set is composed of 21 microsurgical instruments, including the MicroFrance® "Golf Club" Elevators (MCO37 and MCO37-1).

Developed in conjunction with Richard Wiet, MD, Northwestern University, Chicago

Product	Qty
3722300 Wiet Chronic Ear/Stapes Set	1
<i>Set includes:</i>	
1352305 Depth Gauge	1
3722020 Footplate Pick, 45°	1
3722036 House Sickle Knife #1, 7.5mm, Curved Blade	1
3722037 House Lancet Knife #2, 2x3mm, Tapered Tip, 45°	1
3722048 "Gimmick" Elevator, 1x12mm Tip, 15°	1
3722056 Needle, Light Curve, Dull	1
3722058 Barbara Pick, Malleable Shaft	1
3722068 Pick, 90°, 3mm Point	1
3722071 Crabtree Dissector, 90°, 0.5x2.5mm	1
3722113 Whirleybird Pick, Right, 1x4mm	1
3722114 Whirleybird Pick, Left, 1x4mm	1
3722122 Roller Knife, 3mm	1
3722136 Derlacki Mobilizer, Angled Tip	1
3722158 Harrison Knife, 45°	1
3724066 Perkins Retractor, Right	1
3724067 Perkins Retractor, Left	1
3724307 Allport Incus Hook, 90°	1
MCO37 Micro Elevator "Golf Club," Right	1
MCO37-1 Micro Elevator "Golf Club," Left	1
MCO38 Wiet Measuring Instrument	1
N480G Wiet Bayonet Scissors	1
3722301 Instrument Case for Wiet Chronic Ear/Stapes Set	1
3717022 Pick Tray	1



MICROFRANCE OTOLGY INSTRUMENTATION

Curettes

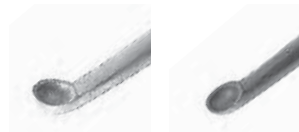
Double Ended Straight Curette

- Overall Length 165mm

Product		Qty
MCO7-1	Double Ended Straight Curette N°1/2	1
MCO7-3	Double Ended Straight Curette N°3/4	1
MCO7A-1	Double Ended Angled Curette N°1/2	1
MCO7A-3	Double Ended Angled Curette N°3/4	1
MCO7A-5	Double Ended Angled Curette N°5/6	1



MCO7A-1



MCO7A-1



MCO7-1

Curette

- Overall Length 160mm

Product		Qty
MCO655	Curette (G)	1



MCO655



Elevators

Chobaut Double Elevator

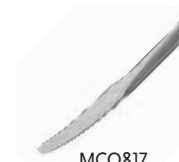
Product		Qty
MCO240	Chobaut Double Elevator	1



MCO240

Sulcus Elevator

Product		Qty
MCO817	Sulcus Elevator	1



MCO817

Curved Elevator

Product		Qty
MCO8B	Curved Elevator	1



MCO8B

Double Elevator

Product		Qty
MCO951	Double Elevator	1



MCO951

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Elevators

Cause Elevator

- Overall Length 165mm

Product	Qty
MCO667 Cause Elevator	1



Micro Elevator "Golf Club"

- Overall Length 165mm

Product	Qty
MCO37 Micro Elevator, Right	1
MCO37-1 Micro Elevator, Left	1



Forceps

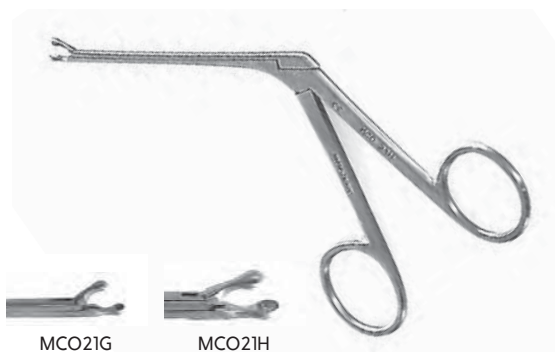
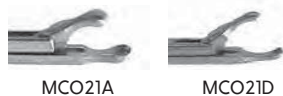
Micro-Forceps, Side Opening

Product	Qty
MCO17 Alligator Micro-Forceps, Side Opening	1



Cup Forceps

Product	Qty
MCO21 Micro-Cupped Forceps, 1mm	1
MCO21A Micro-Cupped Forceps, 0.8mm	1
MCO21D Micro-Cupped Forceps Up, Curved Up, 0.8mm	1
MCO21G Micro-Cupped Forceps, 1.8mm	1
MCO21H Micro-Cupped Forceps, 2.5mm	1



Marquet Ear Forceps

Product	Qty
MCO960 Alligator Micro-Forceps, Curved Right (very fine)	1
MCO961 Alligator Micro-Forceps, Curved Left (very fine)	1



McGee Forceps

Product	Qty
MCO25 McGee Forceps, Wire Closure	1

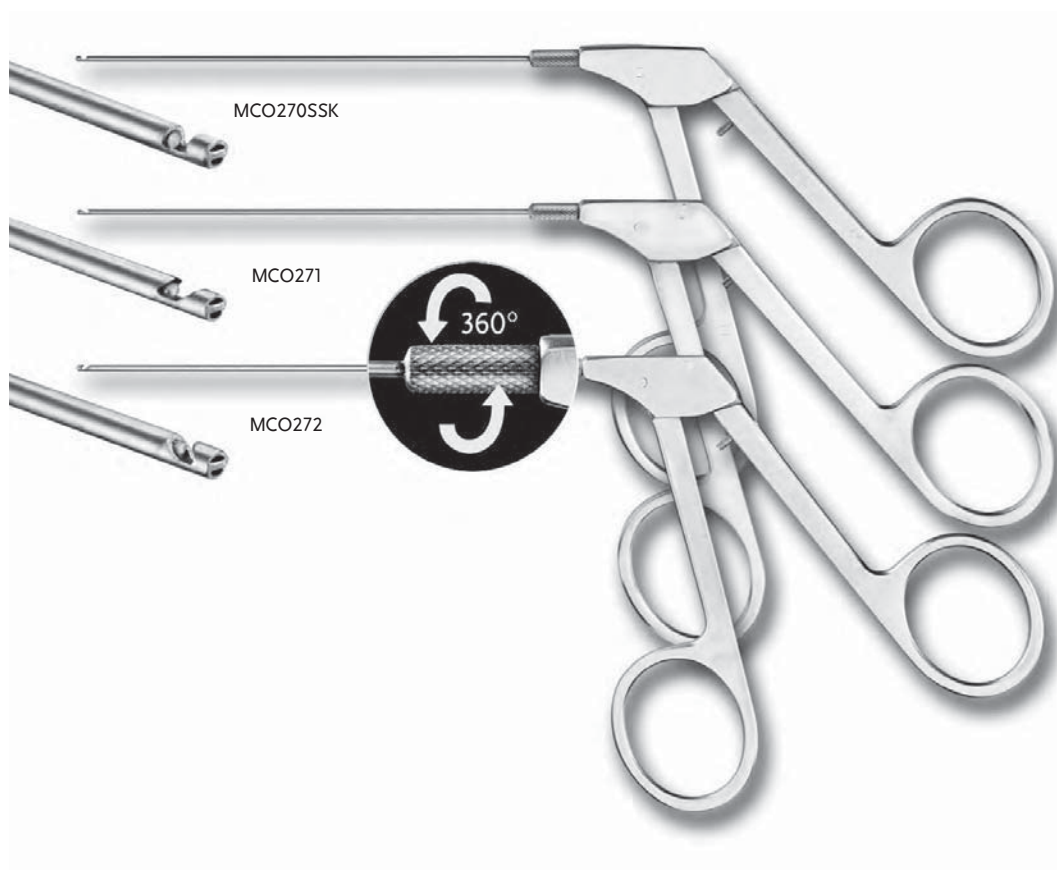


MICROFRANCE OTOTOLOGY INSTRUMENTATION

Kraus TM Microcut™ Forceps

The Kraus TM MicroCut™ Forceps were designed to cleanly and precisely remove the epithelial edge of a tympanic membrane perforation without over-enlarging the existing perforation. These forceps provide a clean, square cut of the epithelial margin that can then be covered with a perforation patch such as the EpiDisc® Otologic Lamina. The forceps come in various jaw angles (90°, 45° forward and 45° backward) to accommodate various perforation locations and angulations. They may also be used for controlled biopsies or any other maneuver that requires precision cutting or trimming.

Product		Qty
MCO270SSK	Kraus TM Microcut™ Forceps, 90°	1
<i>Set Includes:</i>		
MCO271	Kraus TM Microcut Forceps, Forward-Biting	1
MCO272	Kraus TM Microcut Forceps, Backward-Biting	1



MicroFrance®
Instrumentation

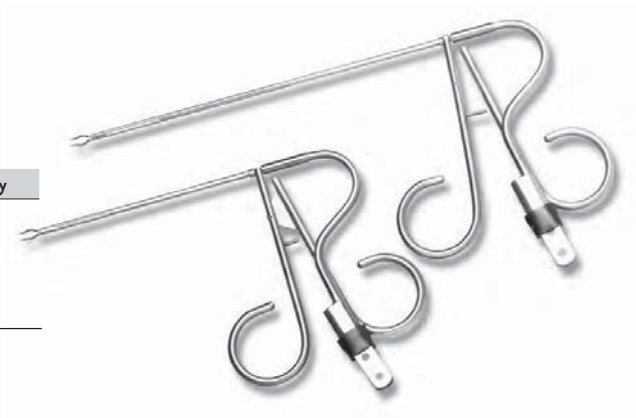
MICROFRANCE OTOTOLOGY INSTRUMENTATION

Forceps

Otology and Neurotology Bipolar Forceps

- Designed specifically for otologic procedures
- The 2mm outer diameter and the 1.5mm size of the tips makes it perfect for coagulating in tight spaces
- Both Bipolar Forceps come with a specially designed stainless steel sterilization tray
- Use CP393 Bifurcated (banana plug) Bipolar Cable (sold separately)

Product		Qty
MCO290	Otology Bipolar Forceps Shaft Working Length 75mm (3"), Tips 5mm	1
MCO291	Neurotology Bipolar Forceps Shaft Working Length 75mm (3"), Tips 5mm	1
CP393	Bifurcated (banana plug) Bipolar Cable	1



Forceps, Angulated Down

Product		Qty
MCO35	Fine Forceps, Angulated Down, Serrated Jaws	1
MCO36	Fine Forceps, Angulated Down, Spoon Jaws	1



Piston Closing Forceps

Product		Qty
MCO658	Piston Closing Forceps (L)	1



Piston Closing Forceps

Product		Qty
MCO26	Piston Closing Forceps	1



Beyer Gouge Forceps

Product		Qty
CP380	Beyer Gouge Forceps, Straight, 160mm	1



CP380

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Forceps

De Martel Forceps

Product	Qty
P763 De Martel Forceps , 130mm	1



p763

Kocher Forceps

Product	Qty
P764-1 Kocher Forceps, Straight ,140mm	1
P764-3 Kocher Forceps, Straight, 1x2 Teeth ,140mm	1



P764-3

Hartmann Forceps

Product	Qty
MCO13A Hartmann Alligator Micro-Forceps	1
MCO13B Hartmann Alligator Micro-Forceps, Strong, 8mm x 1.6mm	1
MCO13D Hartmann Alligator Micro-Forceps, Middle Size, 6mm x 13mm	1
MCO13E Hartmann Alligator Micro-Forceps, Fine	1



MCO13A



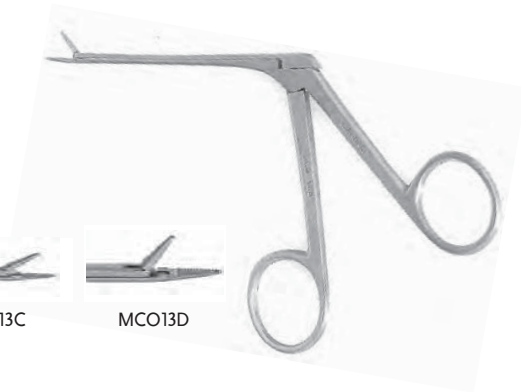
MCO13B



MCO13C



MCO13D



MICROFRANCE OTOLOGY INSTRUMENTATION

Hooks

Ball-Tipped Hook



Product	Qty
MCO805 Ball-Tipped Hook, 2mm	1

Footplate Hook

Product	Qty
MCO205 Micro Footplate Hook, Straight, 0.3mm	1
MCO205A Micro Footplate Hook, Angled Shaft Down, 0.3mm	1
MCO205B Micro Footplate Hook, Angled Shaft Up, 0.3mm	1
MCO205C Micro Footplate Hook, Angled Shaft Right, 0.3mm	1
MCO205D Micro Footplate Hook, Angled Shaft Left, 0.3mm	1



Hook

Product	Qty
MCO6A Hook 45°, 0.7mm	1
MCO6B Hook 90°, 0.7mm	1



Charachon Hook

Product	Qty
MCO806 Charachon Hook 45°, 2mm	1
MCO806A Hook 90°, 2mm	1
MCO806B Hook 90°, 4mm	1



Charachon Micro Hook

Product	Qty
MCO832A Charachon Micro Hook Footplate Down	1
MCO832B Charachon Micro Hook Footplate Up	1
MCO832C Charachon Micro Hook Footplate Right	1
MCO832D Charachon Micro Hook Footplate Left	1

Item available but not shown.

MICROFRANCE OTOLGY INSTRUMENTATION

Hooks

Blunt Hook

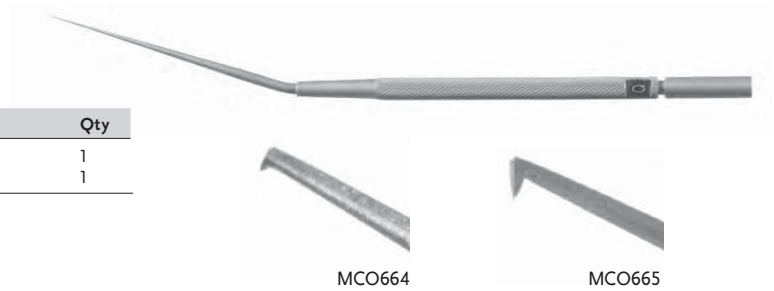
- Overall Length 165mm

Product	Qty
MCO807 Blunt Hook 45°, 1mm	1



Perpendicular Hook

Product	Qty
MCO664 Perpendicular Short Hook	1
MCO665 Perpendicular Long Hook	1



Gillies Hook

Product	Qty
CP17 Gillies Hook Large, 180mm	1
CP17-1 Gillies Hook Small, 180mm	1



MICROFRANCE OTOTOLOGY INSTRUMENTATION

Knives

Rouvier Elevator and Knife

Product	Qty
MCEN50 Rouvier Elevator and Knife, Double-Ended	1



MCEN50

Josephson Suction Round Knife

By having suction on the knife plane, the line of sight stays clear of fluid without the surgeon having to hold a separate suction tube in the other hand. The surgeon can thus utilize more instruments simultaneously, allowing for quicker, more efficient otologic procedures.

Developed in conjunction with Gary D. Josephson, MD

Product	Qty
MCO5D Josephson Suction Round Knife, 2mm	1
MCO5E Josephson Suction Round Knife, 3mm	1



MICROFRANCE OTOTOLOGY INSTRUMENTATION

Knives

Angled Lancet

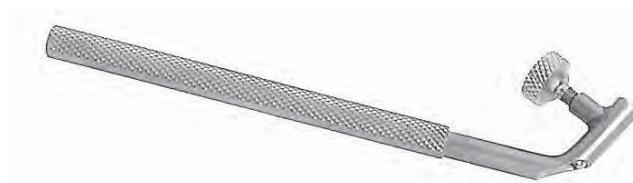
Product	Qty
7721-1 Angled Lancet N°1, Fine	1



7721-1

Politzer Handle

Product	Qty
7725 Politzer Handle	1



7725

Lancet

Product	Qty
7725-E1 Lancet Size N°1	1
7725-E2 Lancet Size N°2	1
7725-E3 Lancet Size N°3	1



7725-E1

Sickle Knife

Product	Qty
MCO10 Sickle Knife	1
MCO10M Morgan Sickle Knife	1



MCO10



mco10



MCO10M

Double End Knife

Product	Qty
MCO312 Double End Knife	1



MCO312

MICROFRANCE OTOLGY INSTRUMENTATION

Knives

Jost Lancet Knife

Product	Qty
MCO204C Jost Lancet Knife	1



MCO204C

Micro Knife

Product	Qty
MCO5 Micro-Knife 90°, Diameter 2.5mm	1
MCO5A-1-0 Micro-Knife 135°, Diameter 1mm	1
MCO5A-2-0 Micro-Knife 135°, Diameter 2mm	1
MCO5A-2-5 Micro-Knife 135°, Diameter 2.5mm	1
MCO5B Micro-Knife 110°, Diameter 2.5mm	1
MCO5C Micro-Knife 135°, Angled Tip, Diameter 2.5mm	1



MCO5B



MCO5



MCO5

Plester Flat Micro-Knife

Product	Qty
MCO6 Plester Flat Micro-Knife	1
MCO6C Plester Flat Micro-Knife, Curved 30°	1



MCO6

Round Knife without Bent Shaft

Product	Qty
MCO652 Round Knife without Bent Shaft	1



MCO652

V-Shape Knife without Bent Shaft

Product	Qty
MCO653 V-Shape Knife without Bent Shaft	1



MCO653

Joint Knife

Product	Qty
MCO656 Joint Knife (H)	1



MCO656



MICROFRANCE OTOTOLOGY INSTRUMENTATION

Cartilage Cutting Knives

Cartilage Cutting Knives

Product		Qty
MCO250	Martin Cartilage Cutting Knife	1
MCO251	Box of 10 Blades	1
MCO255	Teixido Cartilage Cutter	1



MCO250



MCO255

Picks

Picks

Product		Qty
MCO31	Straight Pick	1
MCO32	Curved Pick	1



MCO31



MCO32

Cause Curved Pick

Product		Qty
MCO657	Cause Curved Pick (I)	1



MCO657

Curved Pick Less Sharp

• Overall Length 162mm

Product		Qty
MCO666	Curved Pick, Less Sharp for Manipulation	1



MCO666



MICROFRANCE OTOTOLOGY INSTRUMENTATION

Retractors

Weitlaner Retractor

Product	Qty
0-28	Weitlaner Retractor 3x4 Prongs, 130mm 1
0-28-1	Weitlaner Retractor 3x3 Prongs, 130mm 1



o28

Schucknecht Retractor

Product	Qty
0-28-2	Schucknecht Retractor, 130mm 1



o-28-2

Retractor Blade

Product	Qty
0-28-3	Retractor Blade Right, 110mm 1
0-28-4	Retractor Blade Left, 110mm 1



o-28-3

Weitlaner Retractor

Product	Qty
0-28-7	Weitlaner Retractor 3x4 Prongs, 170mm 1
0-28-8	Weitlaner Retractor 3x3 Prongs, 110mm 1



O-28-7

Weitlaner Retractor

Product	Qty
7781	Weitlaner Beckmann Retractor, 170mm 1



7781

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Retractors

Faraboeuf Retractors

Product		Qty
7768	Faraboeuf Retractors, 120mm(2)	1
7768-1	Faraboeuf Retractors, 140mm(2)	1



Scissors and Nippers

Micro-Scissors

- Working Length 75mm

Product		Qty
MCO4	Micro-Scissors, Straight Blades, 4mm	1
MCO4A	Micro-Scissors, Delicate Straight Blades	1
MCO4B	Micro-Scissors, Blades Curved Right	1
MCO4C	Micro-Scissors, Blades Curved Left	1



Dieter Malleus Nipper

Product		Qty
MCO27	Dieter Malleus Nipper	1



MICROFRANCE OTOLOGY INSTRUMENTATION

Specula

Le Mee Speculum

Product	Qty
9913-1 Le Mee Speculum N°1	1
9913-2 Le Mee Speculum N°2	1
9913-3 Le Mee Speculum N°3	1
9913-4 Le Mee Speculum N°4	1
9913-5 Le Mee Speculum N°5	1
9913-6 Le Mee Speculum N°6	1



9913-6

Speculum, Serrated Blades

Product	Qty
MCO237 Speculum, Serrated Blades	1



MCO237

Legent Pneumo Otoscope

Product	Qty
8820 Legent Pneumo Otoscope	1



8820

Legent Flexible Tension Arm

Product	Qty
MCO980 Legent Flexible Tension Arm	1
<i>Set Includes:</i>	
MCO981 Flexible Tension Arm	1
MCO982 Ear Speculum Forceps	1
MCO982 Nasal Speculum Connection	1
Malleable Blade	1
<i>Accessories:</i>	
CEV980-3 Endoscope Holder (Fits rigid telescopes 4 - 10mm)	1



MCO980
Shown with MCO981 attached

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Suction Tubes

Suction Handle with Finger Control

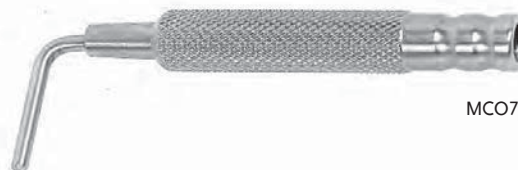
Product	Qty
MCO1	Suction Handle with Finger Control 1
MCO776	Suction Handle with Finger Control 1



MCO1

Angled Suction Tube

Product	Qty
MCO3-0-5	Angled Suction Tube, Diameter 0.5mm 1
MCO3-0-7	Angled Suction Tube, Diameter 0.7mm 1
MCO3-1-0	Angled Suction Tube, Diameter 1mm 1
MCO3-1-2	Angled Suction Tube, Diameter 1.2mm 1
MCO3-1-5	Angled Suction Tube, Diameter 1.5mm 1
MCO3-1-8	Angled Suction Tube, Diameter 1.8mm 1
MCO3-2-0	Angled Suction Tube, Diameter 2mm 1
MCO3-2-4	Angled Suction Tube, Diameter 2.4mm 1



MCO776



MCO3-1-0

Suction Tube

Product	Qty
MCO311-1-0	Suction Tube, Diameter 1mm 1
MCO311-1-2	Suction Tube, Diameter 1.2mm 1
MCO311-1-5	Suction Tube, Diameter 1.5mm 1
MCO311-1-8	Suction Tube, Diameter 1.8mm 1
MCO311-2-0	Suction Tube, Diameter 2mm 1
MCO311-2-5	Suction Tube, Diameter 2.5mm 1
MCO311-3-0	Suction Tube, Diameter 3mm 1
MCO311-3-5	Suction Tube, Diameter 3.5mm 1
MCO311-4-0	Suction Tube, Diameter 4mm 1



MCO311-1-0

Brackmann Suction

Product	Qty
MCO352-20	Brackmann Suction, Diameter 2mm 1
MCO352-25	Brackmann Suction, Diameter 2.5mm 1
MCO352-30	Brackmann Suction, Diameter 3mm 1

Item available but not shown.

Wertheimer Suction Tube

Product	Qty
MCO770-1-5	Wertheimer Suction Tube, Diameter 1.5mm 1
MCO770-2-0	Wertheimer Suction Tube, Diameter 2mm 1
MCO770-2-5	Wertheimer Suction Tube, Diameter 2.5mm 1
MCO770-3-0	Wertheimer Suction Tube, Diameter 3mm 1
MCO770-3-5	Wertheimer Suction Tube, Diameter 3.5mm 1
MCO770-4-0	Wertheimer Suction Tube, Diameter 4mm 1



MCO770-3-0

MICROFRANCE OTOLOGY INSTRUMENTATION

Miscellaneous

Turning Adapter Luer Lock

Product	Qty
MCO772 Turning Adapter Luer Lock	1



MCO772

Adapter

Product	Qty
MCO775-1 Autoclaving Adapter	1



MCO775-1

Columella Distance Measurer

Product	Qty
MCO34 Columella Distance Measurer	1



MCO34

Measuring Rod

Product	Qty
MCO12B Measuring Rod, Angled Shaft, 4.5-5.5	1



MCO12B

Charachon Measuring Rod

Product	Qty
MCO830 Charachon Measuring Rod, Diameter 3.5 - 4.5mm	1



MCO830

Zini Mirror

Product	Qty
MCO216-3-5 Zini Mirror, Diameter 3.5mm	1



MCO216-3-5

Footplate Perforator

Product	Qty
MCO218-4 Footplate Perforator, Diameter 0.4mm	1
MCO218-6 Footplate Perforator, Diameter 0.6mm	1
MCO218-8 Footplate Perforator, Diameter 0.8mm	1



MCO218-6

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Miscellaneous

Hand Drill

Product		Qty
MCO29	Hand Drill, Diameter 0.8mm	1



MCO29

Separator

Product		Qty
MCO9	Separator	1



MCO9

Stentrom Otoabraders

Product		Qty
CP85	Stentrom Otoabraders Rasp	1
CP85A	Stentrom Otoabraders Elevator	1



CP85A



CP85

Vein Press

Product		Qty
MCO819	Vein Press, Two Flat Sides	1
MCO820	Martin Vein Press	1



MCO820

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Miscellaneous

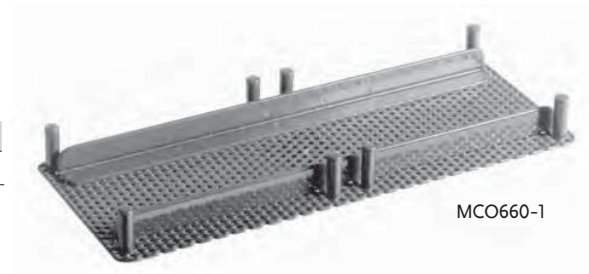
Cause Instrument Case

Product	Qty
MCO649SC Cause Instrument Case	1

Item available but not shown.

Tray for Cause Glass Pane

Product	Qty
MCO660-1 Tray for Cause Glass Pane	1



Tray for Cause Instruments

Product	Qty
MCO670-1 Tray for Cause Instruments	1

Item available but not shown.

MICROFRANCE OTOTOLOGY INSTRUMENTATION

Miscellaneous

Fleury Raspatory

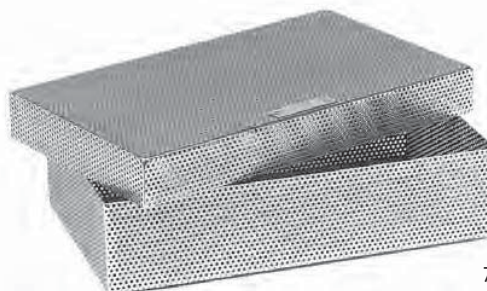
Product	Qty
MCO979 Fleury Raspatory, Rectangular Tip	1



MCO979

Stainless Steel Box

Product	Qty
7874MF-22 Stainless Steel Box 220x100x40mm	1
7874MF-25 Stainless Steel Box 250x150x60mm	1
7874MF-34 Stainless Steel Box 340x200x80mm	1



7874MF-25

Temporal Bone Specimen Holder

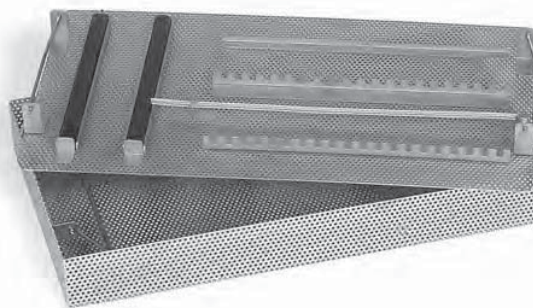
Product	Qty
MCO823 Temporal Bone Specimen Holder	1



7874MF-25

Trays

Product	Qty
MCO821-1 Tray for 12 Instruments	1
MCO824-1 Tray for Ear Instruments	1
MCO866 Tray for Thomassin Instruments	1



MCO824-1

Stainless Steel Kidney Bowl

Product	Qty
7875 Stainless Steel Kidney Bowl	1



7875

MICROFRANCE LARYNGEAL INSTRUMENTATION

Henry Endoscopic Parathyroid Instrument Set

The Henry instruments were designed for the minimally invasive endoscopic lateral approach to parathyroid surgery. This approach is achieved by developing the plane between the carotid sheath laterally and the strap muscles medially. The procedure is performed via one 10mm optic port and two 3mm operating ports, placed on the medial border of the sternocleidomastoid muscle. This "back door" approach allows direct access to the posterior aspect of the thyroid lobe, without the need for the dissection of the strap muscles or medial retraction of the thyroid during the procedure.

The set includes a series of insulated monopolar instruments to provide safe and convenient hemostasis to the operative site. The 3mm trocars provide operating ports for the instrumentation and can be sutured to prevent involuntary removal. The 10mm trocar ring has been specifically designed to maintain insufflation and traction during surgery and can be affixed with a with a purse string suture through skin and muscles to amplify the operative space.

Developed in conjunction with Jean-Francis Henry, MD

Product	Qty
MCLP00	Henry Endoscopic Parathyroid Instrument Set
<i>Set Includes:</i>	
MCLP10	Blunt Trocar, 3mm Diameter 2
MCLP20	Monopolar Coagulating Grasping Forceps, Angled Handle 1
MCLP25	Monopolar Coagulating Grasping Forceps, Axial Handle 1
MCLP30	Monopolar Coagulating Alligator Forceps, Axial Handle 1
MCLP40	Monopolar Coagulating Scissors, Curved 1
MCLP50	Monopolar Coagulating Hook 1
MCLP60	Blunt Probe 2
MCLP70	Trocar Ring, 10mm Inner Diameter 1
CP391	Cable for Monopolar Coagulating Instruments 1
3717012	Medium Instrument Tray 1



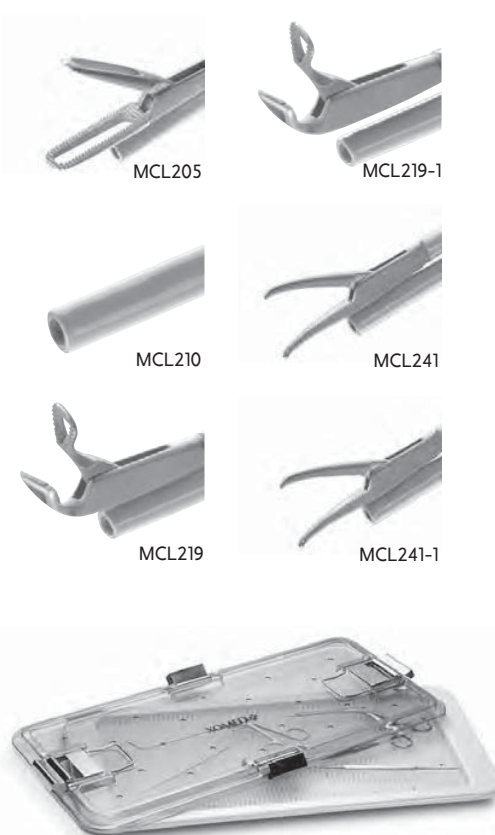
MICROFRANCE LARYNGEAL INSTRUMENTATION

Abitbol Laser Microlaryngeal Instruments

These highly refined instruments help reduce complications associated with laser surgery of the larynx. The precise set of grasping forceps is insulated to reduce the risk of laser-related injuries, has integrated suction for evacuation of the laser plume, and features monopolar jaws to allow fast and convenient hemostasis in the areas of the larynx that are most difficult to address.

Developed in conjunction with Jean Abitbol, MD

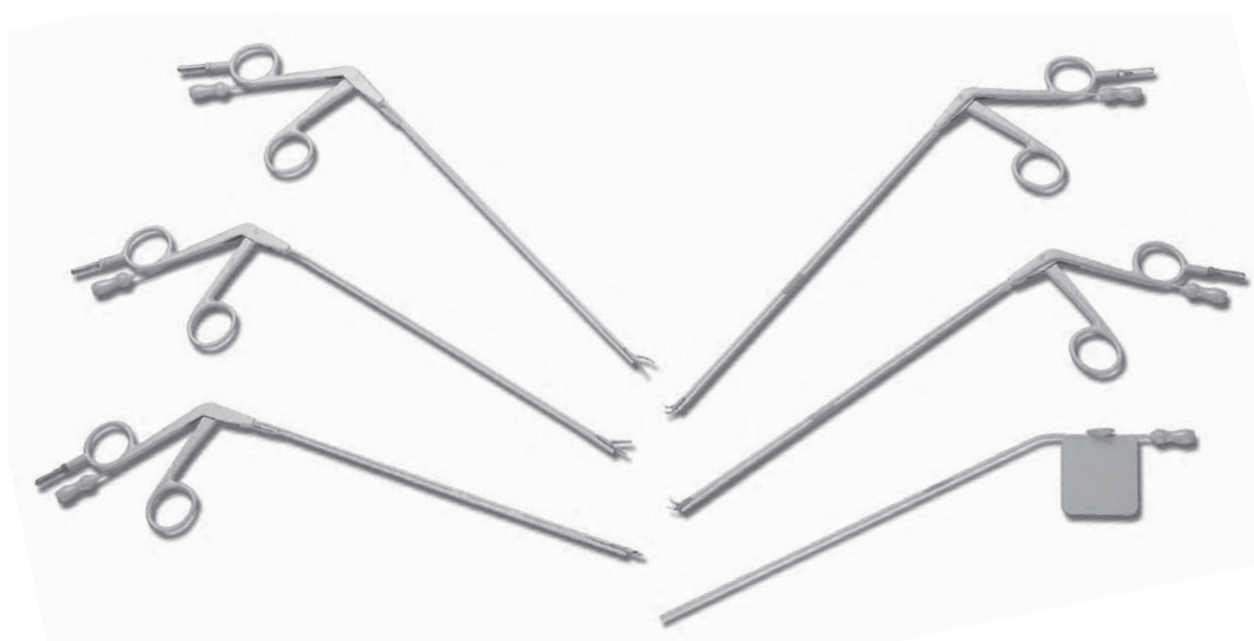
Product		Qty
MCL205	Monopolar Coagulating Grasping Forceps with Suction Fenestrated 3mm x 8mm Jaws Overall Length 255mm (10") Working Length 230mm (9")	1
MCL219	Monopolar Coagulating Heart-Shaped Graspers (2mm x 3mm V-Shaped Tip) with Suction, Angled Right Overall Length 250mm (9.8") Working Length 220mm (8.7")	1
MCL219-1	Monopolar Coagulating Heart-Shaped Graspers (2mm x 3mm V-Shaped Tip) with Suction, Angled Left Overall Length 250mm (9.8") Working Length 220mm (8.7")	1
MCL241	Monopolar Coagulating Alligator Forceps with Suction (1mm x 8mm Tip), Curved Right Overall Length 255mm (10") Working Length 228mm (9")	1
MCL241-1	Monopolar Coagulating Alligator Forceps with Suction (1mm x 8mm Tip), Curved Left Overall Length 255mm (10") Working Length 228mm (9")	1
MCL210	Suction Tube with Finger Control, Insulated Overall Length 295mm (11.6") Working Length 210mm (8.3")	1
CP391	Cable for Monopolar Coagulating Instruments (185cm)	1



Abitbol Laser Microlaryngeal Instrument Accessories:

37-17002	One-Level Instrument Tray, 25cm Wide x 53cm Long x 4cm Deep	1
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37-17002



MicroFrance®
Instrumentation

MICROFRANCE LARYNGEAL INSTRUMENTATION

Benninger Microlaryngeal Instrument Set

These microlaryngeal instruments combine MicroFrance quality and precision with the stability of thumb-action ring handles.

Developed in conjunction with Michael Benninger, MD

Product	Qty
MCLB2 MicroFrance Benninger Microlaryngeal Instrument Set	1
<i>Set Includes:</i>	
MCLB16 Laryngeal Micro-Scissors, 1.5mm Blades Curved Right Thumb-Action Ring Handle with Finger Loop Working Length 225mm (8.9")	1
MCLB17 Laryngeal Micro-Scissors, 1.5mm Blades Curved Left Thumb-Action Ring Handle with Finger Loop Working Length 225mm (8.9")	1
MCLB30 Laryngeal Suture Knot Pusher Overall Length 247.6mm (9.8") Working Length 171.4mm (6.7")	1
MCLB31 Laryngeal Micro-Scissors, 1.5mm Blades Angled 70 Degrees Up Thumb-Action Ring Handle with Finger Loop Working Length 225mm (8.9")	1
MCLB94 Laryngeal Needle Driver, 70° Angled Up Ratchet Lock, 1.6mm x 5.0mm Serrated Jaws Overall Length 235mm (9.3")	1
MCLS18R Downbiting 2.3mm Cup Forceps Thumb-Action Ring Handle with Finger Loop Working Length 249mm (9.8")	1
MCL-S21R Right Heart-Shaped Grasper (2mm x 3mm Jaws) Thumb-Action, Ring Handle with Finger Loop Working Length 249mm (9.8")	1
MCL-S22R Left Heart-Shaped Grasper (2mm x 3mm Jaws) Thumb-Action, Ring Handle with Finger Loop Working Length 249mm (9.8")	1
MCL-S23R Right Alligator Forceps (7.6mm Jaws) Thumb-Action, Ring Handle with Finger Loop Working Length 249mm (9.8")	1
MCL-S24R Left Alligator Forceps (7.6mm Jaws) Thumb-Action, Ring Handle with Finger Loop Working Length 249mm (9.8")	1



MCLB16



MCLB31



MCLB17



MCLS18R



MCLB30



MCLB94



MCLS1



MCL-S4



MCL-S16



MCL-S25



MCL-S7



MCL-S24R



MCL-S22R



MCL-S23R



MCL-S21R

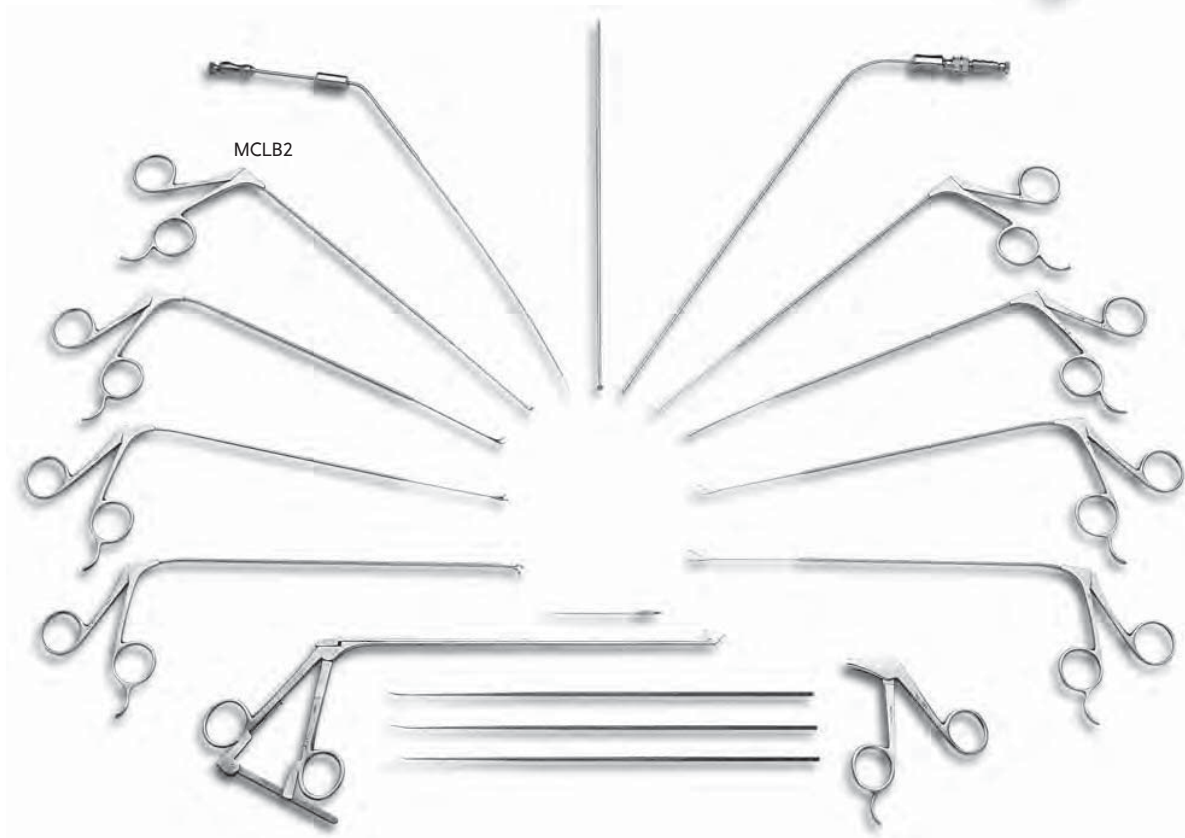


37-34109

MICROFRANCE LARYNGEAL INSTRUMENTATION

Sataloff Microlaryngeal Instruments Included in this Set:

Product		Qty
MCL-S0	Long Connector for Injection Needle	1
MCL-S1	Curved 1mm x 9mm Spatula Overall Length 252mm (9.9")	1
MCL-S7	Straight 1mm x 10mm Spatula Overall Length 252mm (9.9")	1
MCL-S4	Straight Injection Needle (box of 6) 0.4mm Diameter (27 gauge) Overall Length 80mm (3.1") Working Length 67mm (2.6")	1
MCL-S25	Sickle Knife, 6.5mm Blade (box of 6) Overall Length 251mm (9.9") For use with MCL-S19	1
MCL-S19	Universal Instrument Handle, Ring Handle with Finger Loop	1
MCL-S16	#3 Suction	1
37-34109	#5 Suction, 2mm	1
MCLB2SC	Instrument Tray	1



MicroFrance®
Instrumentation

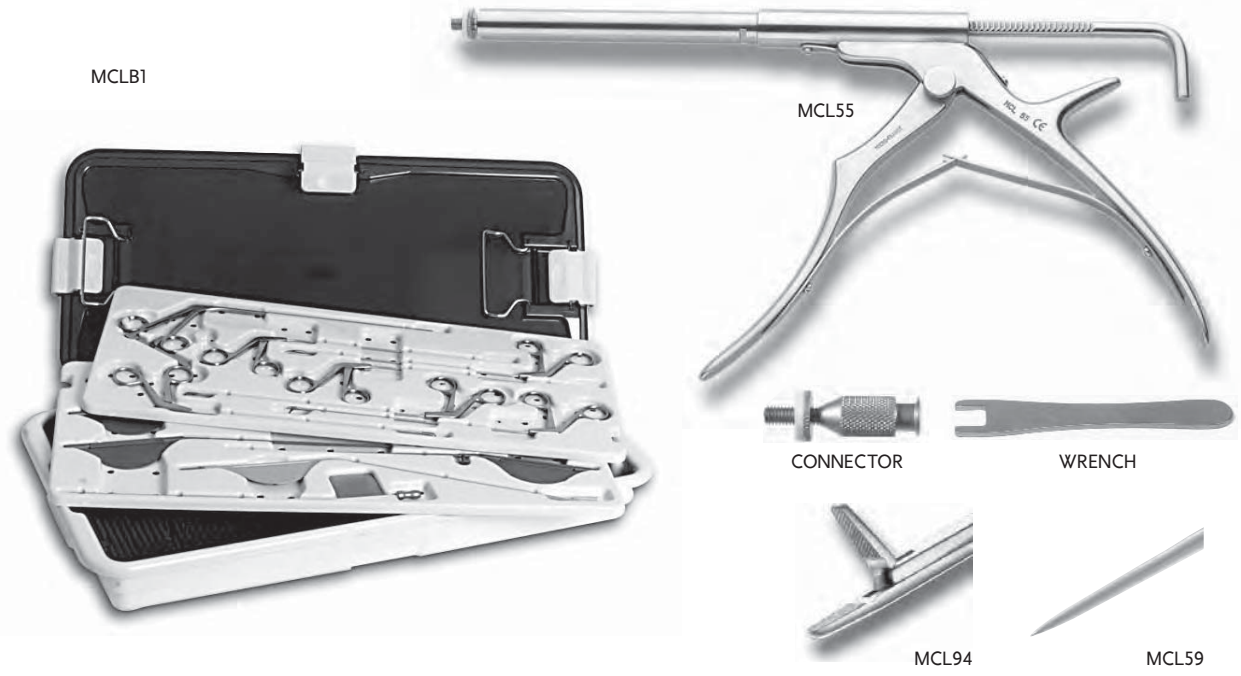
MICROFRANCE LARYNGEAL INSTRUMENTATION

Bouchayer Laryngeal Instrument Set

Bouchayer Laryngeal instruments have become a standard foundation of any modern laryngology set. The unique set of specialized forceps, knives, retractors and injection instruments will allow you to accurately address even the most difficult pathologies of the larynx.

Developed in conjunction with Marc Bouchayer, MD

Product		Qty
MCLB1	MicroFrance Bouchayer Laryngeal Instrument Set	1
Set Includes:		
MCL10	Aspirating/Suction Tube 2.5mm Diameter Overall Length 300mm (11.8") Working Length 210mm (8.3")	1
MCL29	Cup Forceps (1mm), Curved Left, Overall Length 250mm Working Length 222mm (8.7")	1
MCL30	Cup Forceps (1mm), Curved Right, Overall Length 250mm Working Length 222mm (8.7")	1
MCL67	Long Oval 1mm x 3mm Fine Cup Forceps, Opening Up Overall Length 250mm (9.8") Working Length 222mm (8.7")	1
MCL68	Long Oval 1mm x 3mm Fine Cup Forceps, Opening Left Overall Length 250mm (9.8") Working Length 222mm (8.7")	1
MCL69	Long Oval 1mm x 3mm Fine Cup Forceps, Opening Right Overall Length 250mm (9.8") Working Length 222mm (8.7")	1
MCL16	Micro-Scissors, 4mm Blades, Curved Right Overall Length 250mm (9.8") Working Length 222mm (8.7")	1
MCL17	Micro-Scissors, 4mm Blades, Curved Left Overall Length 250mm (9.8") Working Length 222mm (8.7")	1



MICROFRANCE LARYNGEAL INSTRUMENTATION

Bouchayer Laryngeal Instrument Set (continued)

Product		Qty
MCL31	Micro-Scissors, 4mm Blades, Angled Up Overall Length 248mm (9.8") Working Length 218mm (8.6")	1
MCL15	Alligator Forceps (9mm Fine Jaws), Curved Left Overall Length 255mm (10") Working Length 225mm (8.9")	1
MCL18	Alligator Forceps (9mm Fine Jaws), Curved Right Overall Length 255mm (10") Working Length 225mm (8.9")	1
MCL19	Heart-Shaped Forceps (2mm Fenestrated and Serrated Jaws) Curved Left Overall Length 250mm (9.8") Working Length 222mm (8.7")	1
MCL19BIS	Heart-Shaped Forceps (2mm Fenestrated and Serrated Jaws) Curved Right Overall Length 250mm (9.8") Working Length 222mm (8.7")	1
MCL56-56-1	Bouchayer Elevators 1 Right/1 Left	1
MCL81-81-1	Bouchayer Elevators 90° 1 Right/1 Left	1
MCL57	Lancet Knife (2mm x 3mm) Overall Length 330mm (13") Working Length 223mm (8.8")	1
MCL55	Injection Pistol, 0.56cc per Click Overall Length 157mm (6.2") Includes MCL55-1 (needle), Connector, Wrench	1
MCL58	Bayonet Needle for Injection, 0.5mm Diameter (25 gauge) Working Length 230mm (9")	1
MCL59	Freche Coagulating Monopolar Probe, Bayonet Tip Overall Length 360mm (14.2") Working Length 227mm (8.9")	1
MCL82	Vocal Cord Retractor, 19mm Jaws, 5mm Tips Overall Length 262mm (10.3") Working Length 238mm (9.4")	1
MCL93	Bouchayer Knife with Interchangeable Blades (2mm x 3mm Lancet) Overall Length 335mm (13.2") Working Length 210mm (8.3")	1
MCL94	Bouchayer Needle Holder with Ratchet Lock 2mm x 5mm Fine Serrated Jaws Overall Length 240mm (9.4")	1
CP391	Cable for Monopolar Coagulating Instruments (185cm) (72.8")	1
MCL190	Bouchayer Instrument Tray 25.5cm Wide x 54.5cm Long x 6.5cm Deep (Includes MCL191 and MCL192)	1



MCL82



MCL56-56-1



MCL55-1



MCL81-81-1



MCL93-2



MCL55-2
MCL55-3

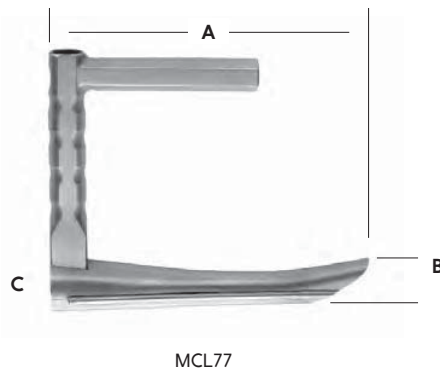


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MICROFRANCE LARYNGEAL INSTRUMENTATION

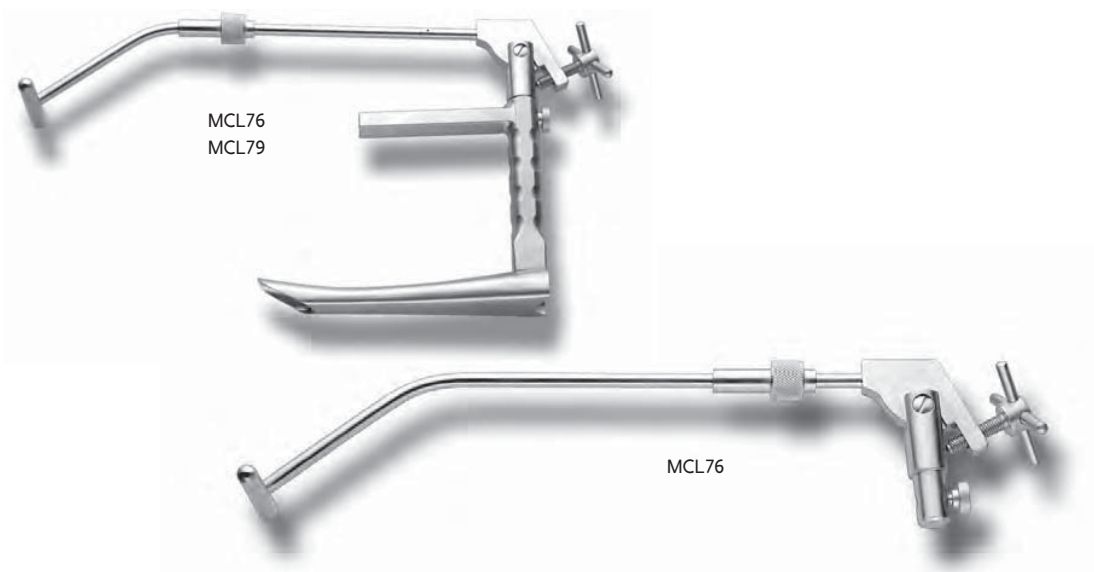
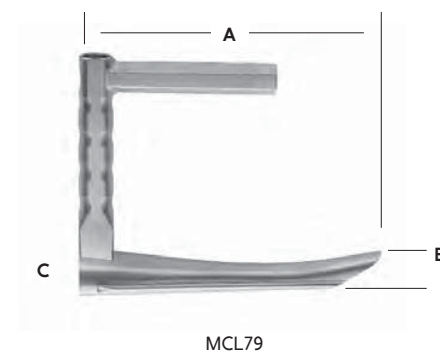
Bouchayer Laryngeal Instrument Accessories:

Product		Qty
MCL55-1	Replacement Needle for MCL55 5mm from Tip to Ball, 1mm Diameter (19 gauge) Overall Length 277mm (10.9") Working Length 220mm (8.7")	1
MCL55-2	Right Bayonet Injection Needle for MCL55 Injection Pistol Injection Pistol, 1mm Diameter (19 gauge) Overall Length 275mm (10.8") Working Length 210mm (8.3")	1
MCL55-3	Left Bayonet Injection Needle for MCL55 Injection Pistol Injection Pistol, 1mm Diameter (19 gauge) Overall Length 275mm (10.8") Working Length 210mm (8.3")	1
MCL93-2	Replacement Knife Blades (3 each) for MCL93	1
MCL191	Bouchayer Forceps Sterilization Tray	1
MCL192	Bouchayer Probe and Elevator Sterilization Tray	1



Bouchayer Laryngoscopes:

Product		Qty
MCL700	Bouchayer Laryngoscope Set, Large	1
<i>Set Includes:</i>		
MCL77	Bouchayer Laryngoscope, Large Overall Length "A" = 18cm (7") Overall Tip Height (Retraction) "B" = 25mm Proximal Opening "C" = 42mm x 28mm Light Fiber	1
MCL78	Light Fiber	1
MCL710	Bouchayer Laryngoscope Set, Medium	1
<i>Set Includes:</i>		
MCL79	Bouchayer Laryngoscope, Medium Overall Length "A" = 18cm (7") Overall Tip Height (Retraction) "B" = 22mm Proximal Opening "C" = 39mm x 25mm Light Fiber	1
MCL78	Light Fiber	1
Bouchayer Laryngoscope Accessories:		
MCL76	Laryngoscope Suspension Apparatus Overall Length 35cm (13.8")	1
MCL35	Chest Plate for Suspension Apparatus 60mm Wide x 140mm Long	1
MCL78	Replacement Light Fiber for MCL77 and MCL79	1



MICROFRANCE LARYNGEAL INSTRUMENTATION

Sataloff Microlaryngeal Instrument Set

Delicate laryngeal microsurgery requires sharp, precise, small instruments. The Sataloff Microlaryngeal Instrument Set enables the surgeon to perform delicate procedures in the treatment of vocal fold pathologies.

Developed in conjunction with Robert T. Sataloff, MD, DMA

Product		Qty
MCLS40	Sataloff MicroFrance Microlaryngeal Instrument Set (includes 2 universal handles)	1
Set Includes:		
MCL-S0	Long Connector for Injection Needle (185mm, 7.3")	1
MCL-S4	Straight Collagen Injection Needle (box of 6) 0.4mm Diameter (27 gauge) Overall Length 80mm (3.1") Working Length 67mm (2.6")	1
MCL-S5	Right Angle Collagen Injection Needle, (box of 6) 0.4mm Diameter (27 gauge) Overall Length 80mm (3.1") Working Length 67mm (2.6")	1
MCL-S27	Angled Adapter for Injection Needle Carrier Overall Length 42mm (1.7")	1
MCL-S16	French Velvet Eye Suction 0.89mm Diameter Overall Length 300mm (11.8") Working Length 230mm (9.1")	1
MCL-S17	French Velvet Eye Suction with Retractor Plate Below 0.89mm Diameter Overall Length 300mm (11.8") Working Length 230mm (9.1")	1
MCL-S17-1	French Velvet Eye Suction with Retractor Plate Above 0.89mm Diameter Overall Length 300mm (11.8") Working Length 230mm (9.1")	1



MCL-S4



MCL-S17



MCL-S5



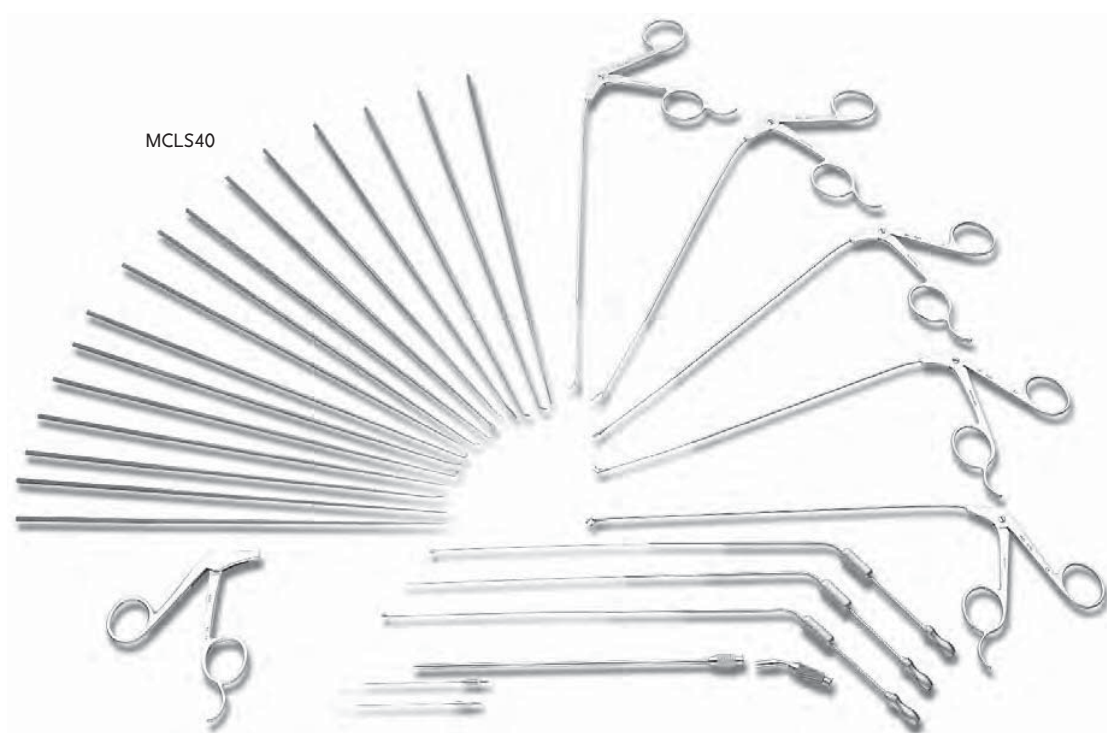
MCL-S17-1



MCL-S16



MCL-S18



MICROFRANCE LARYNGEAL INSTRUMENTATION

Sataloff Microlaryngeal Instrument Set (continued)

Product	Description	Qty
MCL-S18	Downbiting 2mm Cup Forceps Ring Handle with Finger Loop Overall Length 250mm (9.8"), Working Length 223mm (8.8")	1
MCL-S21	Right Heart-Shaped Grasper (1.5mm Jaws) Ring Handle with Finger Loop Overall Length 240mm (9.4"), Working Length 215mm (8.5")	1
MCL-S22	Left Heart-Shaped Grasper (1.5mm Jaws) Ring Handle with Finger Loop Overall Length 240mm (9.8"), Working Length 215mm (8.7")	1
MCL-S23	Right Alligator Forceps (8mm Jaws) Ring Handle with Finger Loop Overall Length 245mm (9.6"), Working Length 220mm (8.7")	1
MCL-S24	Left Alligator Forceps (8mm Jaws) Ring Handle with Finger Loop Overall Length 245mm (9.6"), Working Length 220mm (8.7")	1
MCL-S19	Universal Instrument Handle Ring Handle with Finger Loop	2
MCL-S2	Double 4mm Hook 1mm Spread Overall Length 251mm (9.9")	1
MCL-S1	Curved 1mm x 9mm Spatula Overall Length 252mm (9.9")	1
MCL-S3	Cotton Carrier, 19mm Twist-End Overall Length 252mm (9.9")	1
MCL-S7	Straight 1mm x 10mm Spatula Overall Length 252mm (9.9")	1
MCL-S8	Fine Angle 8mm Spatula Overall Length 252mm (9.9")	1
MCL-S9	Sharp Right Angle 2mm Hook Overall Length 252mm (9.9")	1
MCL-S10	Ball Dissector, Straight Overall Length 254mm (10")	1
MCL-S11	Oblique Blunt Ball Dissector, 3mm Tip Overall Length 254mm (10")	1
MCL-S12	Short Right Angle Ball Dissector, 2mm Tip Overall Length 254mm (10")	1
MCL-S13	Longer Right Angle Ball Dissector, 3mm Tip Overall Length 254mm (10")	1
MCL-S14	Small 3mm Diameter Mirror Overall Length 251mm (9.9")	1
MCL-S15	Large 4mm Diameter Mirror Overall Length 251mm (9.9")	1
MCL-S30	Sataloff Knife Handle	2
MCL-S31	Disposable Vascular Knife (single-use, sterile, box of 6) Working Length 94mm (3.7"), for use with MCL-S30	1
MCL-S32	Disposable Sharp Knife 7mm Blade (single-use, sterile, box of 6) Working Length 94mm (3.7"), for use with MCL-S30	1
MCL-S33	Disposable Sickle Knife 5mm Blade (single-use, sterile, box of 6) Working Length 94mm (3.7"), for use with MCL-S30	1
MCL-S34	Disposable Flap Knife (single-use, sterile, box of 6) Working Length 94mm (3.7"), for use with MCL-S30	1
MCLS28	Sataloff Instrument Tray, Complete 25.5cm Wide x 54.5cm Long x 7.5cm Deep (Includes MCLS36 and MCLS37)	1
MCL-S35	Sataloff Percutaneous Injection Needle, 1.2mm Diameter (18 gauge)	1
MCL-S38	Sataloff Curette	1
MCL-S39	Sataloff Alligator Forceps Fine, Right Ring Handle with Finger Loop Overall Length 220mm (8.7")	1
MCL-S41	Sataloff Alligator Forceps Fine, Left Ring Handle with Finger Loop Overall Length 220mm (8.7")	1



MICROFRANCE LARYNGEAL INSTRUMENTATION

Sataloff Microlaryngeal Instrument Accessories:

Product	Description	Qty
MCL-S6	Sharp Knife, 7mm Blade Overall Length 252mm (9.9"), for use with MCL-S19	6/bx
MCL-S25	Sickle Knife, 7mm Blade Overall Length 251mm (9.9"), for use with MCL-S19	6/bx
MCL-S36	Instrument Tray with Lid, One Level, 22.5cm Wide x 49.5cm Long	1
MCLS37	Instrument Tray for Sataloff Picks, Handles and Injection System One Level, 8.9 Wide x 19.5 Long, Holds 16 Picks, 2 Handles, 12 Needles	1
MCL-S42	Curved Injection Needle, 0.7mm Diameter (22 gauge)	6/bx
MCL-S43	Straight Injection Needle, 0.7mm Diameter (22 gauge)	6/bx



Sataloff Laryngoscopes:

Product	Description - Diagrams on page 244	Qty
MCL120	Sataloff Pediatric Laryngoscope with Dual Suction and Light Fibers	1
MCL121	Sataloff Medium Male Laryngoscope with Dual Suction and Light Fibers	1
MCL122	Sataloff Large Adult Laryngoscope with Dual Suction and Light Fibers	1
MCL123	Sataloff Medium Female Laryngoscope with Dual Suction and Light Fibers	1
MCL124	Vallecula Laryngoscope	1
MCL125	Anterior Commissure Laryngoscope For patients with limited anterior exposure	1

Sataloff Laryngoscope Accessories:

Product	Description	Qty
MCL35	Chest Plate for Suspension Apparatus	1
MCL76	Laryngoscope Suspension Apparatus	1
MCLS120-1	Left Light Fiber Replacement, Pediatric	1
MCLS120-2	Right Light Fiber Replacement, Pediatric	1
MCLS120-3	Replacement Suction Assembly, Pediatric	1
MCLS121-1	Left Light Fiber Replacement, Medium Male	1
MCLS121-2	Right Light Fiber Replacement, Medium Male	1
MCLS121-3	Replacement Suction Assembly, Small Adult	1
MCLS122-1	Left Light Fiber Replacement, Large Adult	1
MCLS122-2	Right Light Fiber Replacement, Large Adult	1
MCLS122-3	Replacement Suction Assembly, Large Adult	1
MCLS123-1	Left Light Fiber Replacement, Medium Female	1
MCLS123-2	Right Light Fiber Replacement, Medium Female	1
MCLS1233	Dual Suction Tube for MCL123	1
MCL124FL	Replacement Light Fiber for MCL124, Left	1
MCL124FR	Replacement Light Fiber for MCL124, Right	1
MCL124ST	Replacement Dual Suction for MCL124	1
MCL125FL	Replacement Light Fiber for MCL125, Left	1
MCL125FR	Replacement Light Fiber for MCL125, Right	1
MCL125ST	Replacement Dual Suction for MCL125	1
3717023	Laryngoscope Instrument Tray, Holds two laryngoscopes two fiberoptic cables, suspension apparatus, and chest plate	1
1853100	Fiberoptic Cable	1

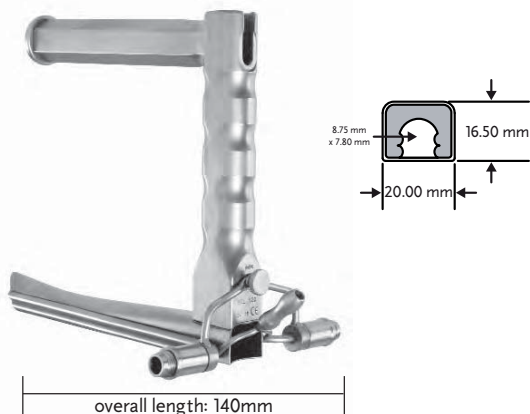


MicroFrance® Instrumentation

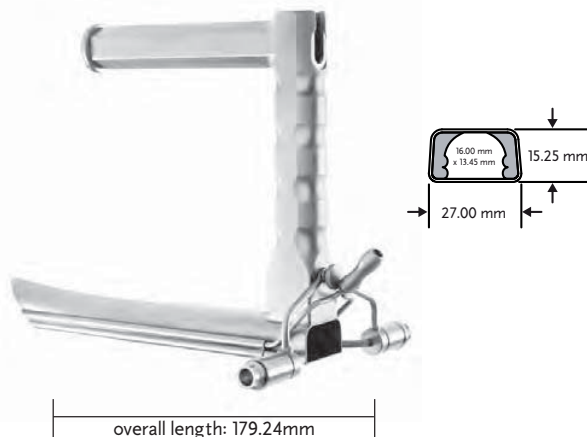
MICROFRANCE LARYNGEAL INSTRUMENTATION

Sataloff Microlaryngeal Instrument Set (continued)

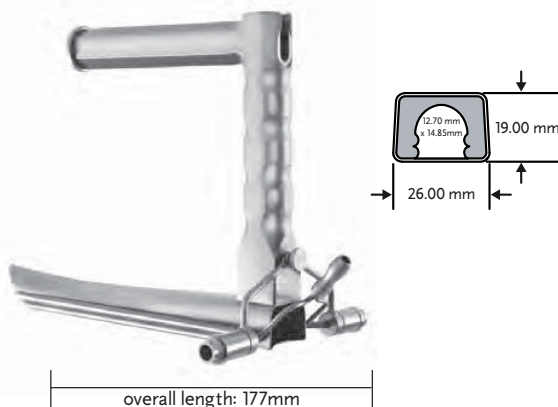
MCL120



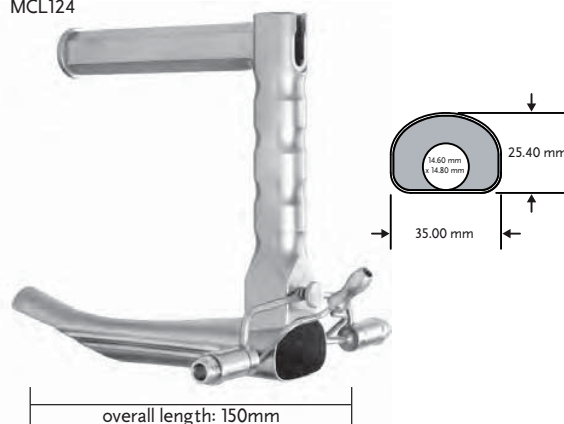
MCL123



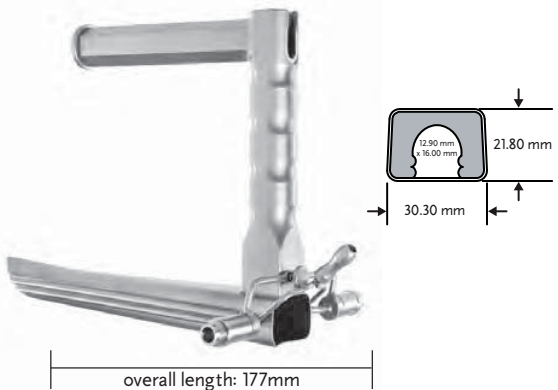
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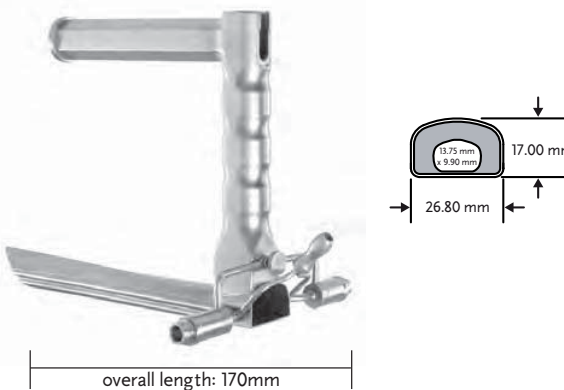
MCL124



MCL122



MCL125



MICROFRANCE LARYNGEAL INSTRUMENTATION

Sataloff Indirect Laryngeal Instrument Set

The Sataloff Indirect Laryngeal Instrument Set is used for office-based procedures. This set includes dilators, cupped forceps, scissors, heart-shaped forceps, alligator forceps and suctions that are curved at a 110° angle, allowing access to the laryngeal region with the patient in a sitting position. The smaller instrument tray has been designed for use with office-oriented sterilization equipment.

Developed in conjunction with Robert T. Sataloff, MD, DMA

Product	Description	Qty
MCLS62	Sataloff Indirect Laryngeal Instrument Set	
<i>Set Includes:</i>		
16-50030	Oro-tracheal® Injector with Curved Cannula, 22cm	1
MCLS44	Laryngeal Dilator, Size 0	1
MCLS45	Laryngeal Dilator, Size 1	1
MCLS46	Laryngeal Dilator, Size 2	1
MCLS47	Laryngeal Dilator, Size 3	1
MCLS48	Fixed Handle	1
MCLS49	Indirect Cupped Forceps, Straight	1
MCLS50	Indirect Cupped Forceps, Left	1
MCLS51	Indirect Cupped Forceps, Right	1
MCLS52	Indirect Scissors, Straight	1
MCLS53	Indirect Scissors, Right	1
MCLS54	Indirect Scissors, Left	1
MCLS55	Indirect Heart-Shaped Forceps, Left	1
MCLS56	Indirect Heart-Shaped Forceps, Right	1
MCLS57	Indirect Alligator Forceps, Straight	1
MCLS58	Indirect Alligator Forceps, Right, Fine	1
MCLS59	Indirect Alligator Forceps, Left, Fine	1
MCLS60	Indirect Suction, 5FR	1
MCLS61	Indirect Suction, 7FR	1
MCLS63	Vascular Knife	3/bx
MCLS64	Sharp Knife	3/bx
MCLS65	Sickle Knife	3/bx
MCLS66	Flap Knife	3/bx
MCLS62SC	Sterilization Case	1



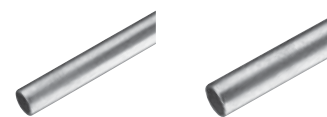
MCLS65

MCLS64



MCLS63

MCLS66



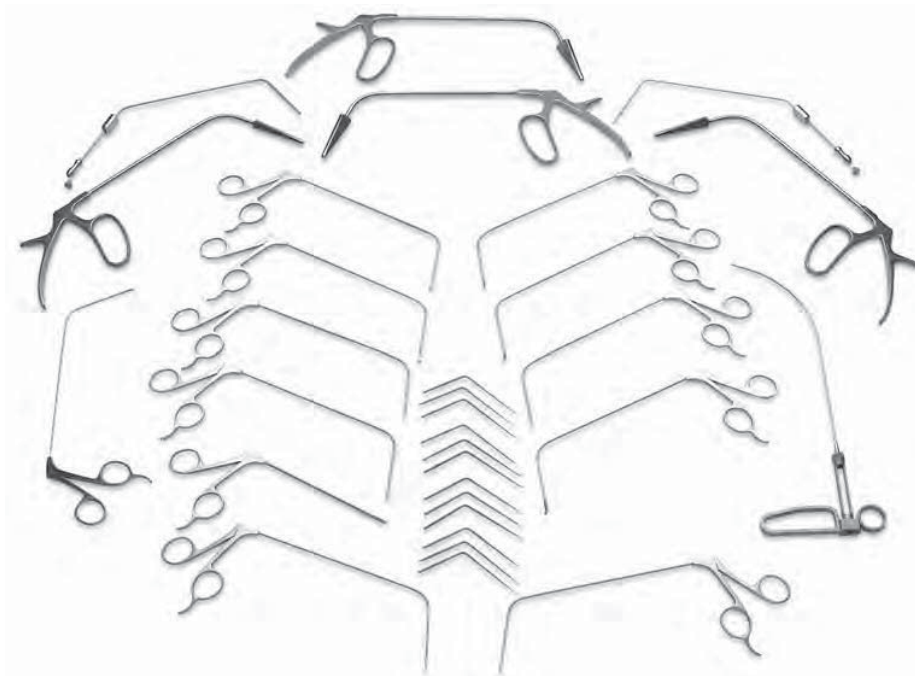
MCLS60

MCLS61



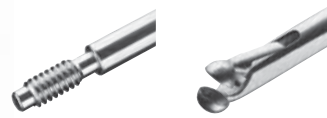
MCLS44

MCLS45



MCLS46

MCLS47



MCLS48

MCLS50



MCLS51

MCLS52

MicroFrance® Instrumentation

MICROFRANCE LARYNGEAL INSTRUMENTATION

Woo Laryngeal Scissors

The MicroFrance® Woo Laryngeal Scissors offer a design not previously available for laryngologists. The double-action lever mechanism allows for more robust cutting of fibrous tissue, and because they are much sturdier, this design allows for more stability when cutting. Additionally, the double-action design allows for less rotation during the cutting process compared to scissors with a single fulcrum. The scissors are shorter and therefore can be balanced on the edge of the laryngoscope. The fine triangular tip may be used for fine dissection, as well as small vessel and flap elevation.



MCLW10



MCLW11

Product		Qty
MCLW10	Woo Laryngeal Scissors, Straight	1
MCLW11	Woo Laryngeal Scissors, 30° up	1



Curettes

Moure Adenoid Curette

Product		Qty
7828-10	Moure Adenoid Curette with Basket, 10mm	1
7828-13	Moure Adenoid Curette with Basket, 13mm	1
7828-16	Moure Adenoid Curette with Basket, 16mm	1



7828-10

Lermoyez Adenoid Curette

Product		Qty
7829-10	Lermoyez Adenoid Curette, 10mm	1
7829-13	Lermoyez Adenoid Curette, 13mm	1
7829-16	Lermoyez Adenoid Curette, 16mm	1
7829-19	Lermoyez Adenoid Curette, 19mm	1



7829-10

Dissectors

Hurd Tonsil Dissector

Product		Qty
7814	Hurd Tonsil Dissector, Double Ended	1



7814

Carpenter Tonsil Dissector

Product		Qty
7815	Carpenter Tonsil Dissector, Double Ended	1



7815

MICROFRANCE LARYNGEAL INSTRUMENTATION

Forceps

Straight Cup Forceps

Product	Qty
MCL12 Straight Cup Forceps	1



MCL12

Bouchayer Straight Forceps

Product	Qty
MCL25 Bouchayer Straight Forceps	1



mcl25

Monopolar Forceps

Product	Qty
CP390-7 Monopolar Forceps, 200mm, Bayonet	1



CP390-7

Bipolar Coagulating Forceps, Insulated

Product	Qty
CP392-10R Bipolar Forceps, 200mm, Angled	1
CP392-5R Bipolar Forceps, 200mm, Bayonet	1
CP392-9R Bipolar Forceps 200mm, Bayonet Angled	1



CP392-5R

Chatelier Adenoid Forceps

Product	Qty
7826-1-7 Chatelier Adenoid Forceps, Pediatric 7mm	1
7826-8 Chatelier Adenoid Forceps, Adult 8mm	1



7826-8

Tying Forceps with Teeth

Product	Qty
MCM4R Tying Forceps with Teeth, 150mm	1



MCM4R

MicroFrance® Instrumentation

MICROFRANCE LARYNGEAL INSTRUMENTATION

Forceps

Laryngeal Biopsy Forceps

Product	Qty
7843-1 Laryngeal Biopsy Forceps, Straight	1
7843A-1 Laryngeal Biopsy Forceps, Curved	1



Endoscopic Cup Forceps

Product	Qty
7844-6 Endoscopic Cup Forceps	1



Redon Clamp Forceps

Product	Qty
7920 Redon Clamp Forceps, 140mm	1



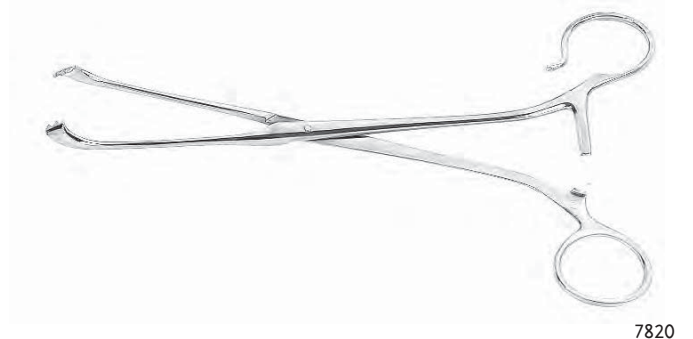
Bourgeois Tonsil Forceps

Product	Qty
7819 Bourgeois Tonsil Forceps	1



Portmann Tonsil Forceps

Product	Qty
7820 Portmann Tonsil Forceps	1



MICROFRANCE LARYNGEAL INSTRUMENTATION

Forceps

Biopsy Forceps

Product	Qty
MCEN28 Biopsy Forceps	1



Knives

Laryngeal Knife

Product	Qty
MCLIBIS Laryngeal Knife	1



Laryngeal Knife

Product	Qty
MCL92-1 Laryngeal Knife	1

Instrument available but not shown.

Ruault Tonsil Knife, Blunt

Product	Qty
7811 Ruault Tonsil Knife, Blunt	1



MICROFRANCE LARYNGEAL INSTRUMENTATION

Mouth Gags

Doyen Mouth Gag

Product		Qty
7801	Doyen Mouth Gag, Adult Size	1
7801-1	Doyen Mouth Gag, Child Size	1

Jennings Mouth Gag

Product		Qty
7804-11	Jennings Mouth Gag, 110mm	1
7804-13	Jennings Mouth Gag, 130mm	1
7804-9	Jennings Mouth Gag, 90mm	1

Davis Boyle Mouth Gag

Product		Qty
7802C	Davis Boyle Mouth Gag	1

Davis Boyle Tongue Depressor

Product		Qty
7802S-1	Davis Boyle Tongue Depressor N°1	1
7802S-2	Davis Boyle Tongue Depressor N°2	1
7802S-3	Davis Boyle Tongue Depressor N°3	1
7802S-4	Davis Boyle Tongue Depressor N°4	1
7802S-5	Davis Boyle Tongue Depressor N°5	1



7801



7804-11



7802-C



7802s-5

Retractors

Retractor

Product		Qty
MCL48	Retractor	1



MCL48

Senn Miller Double Retractor

Product		Qty
CP609	Senn Miller Double Retractor	1



CP609

MICROFRANCE LARYNGEAL INSTRUMENTATION

Scissors

Micro-Scissors

Product		Qty
MCL11	Micro-Scissors, 222mm Straight	1
MCM7BISR	Micro Scissors, 150mm Curved	1



Moure Shear

Product		Qty
7835	Moure Shear, Serrated Blades	1



Depressors

Le Mee Tongue Depressor

Product		Qty
7797-1	Le Mee Tongue Depressor N°1	1
7797-2	LeMee Tongue Depressor N°2	1



Tongue Depressor

Product		Qty
7798	Double Tongue Depressor, Adult	1
7798-1	Double Tongue Depressor, Child	1



MicroFrance®
Instrumentation

MICROFRANCE LARYNGEAL INSTRUMENTATION

Suction Tubes

Monopolar Suction Tube

Product		Qty
MCL62	Monopolar Suction Tube	1



Suction Tubes

Product		Qty
MCEN23-2-5	Suction Tube, Diameter 2.5mm	1
MCEN23-3-0	Suction Tube, Diameter 3mm	1



Miscellaneous

Laryngoscopes

Product		Qty
MCL51	Legent Laryngoscope, Adolescent Size	1
MCL53	Fiberglass Light Carrier for MCL51	1
MCL52	Legent Laryngoscope, Adult Size	1
MCL54	Fiberglass Light Carrier for MCL52	1
MCL75	Storz Endoscope Connection	1
MCL78	Fiberglass Light Carrier for MCL77	1
MCL290	Abitbol Articulated Laryngoscope	1
MCL294	Fiberglass Light Carrier for MCL290	1
MCL295	Suction for MCL290	1
MCL83	Laryngoscope Like Bouchayer 2 Channels	1
MCL83-1	Suction Tube for MCL83	1
MCL84	Fiberglass Light Carrier for MCL83	1
MCL89	Brasnu Laryngoscope	1
MCL89-1	Suction Tube for MCL89	1
MCL89-2	Fiberglass Light Carrier for MCL89	1
MCL46	Dedo Freche Laryngoscope	1
MCL46A	Suction Tube for MCL46	1
MCL47	Fiberglass Light Carrier for MCL46	1

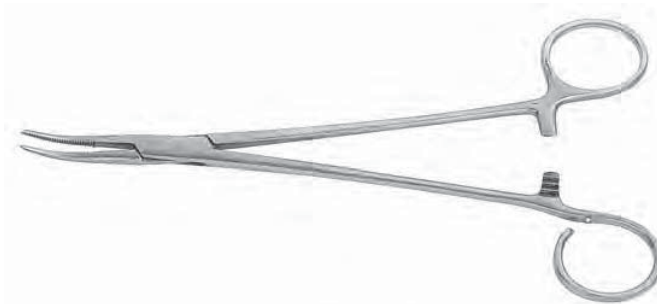


MICROFRANCE LARYNGEAL INSTRUMENTATION

Miscellaneous

Schmidt Tonsil Clamp

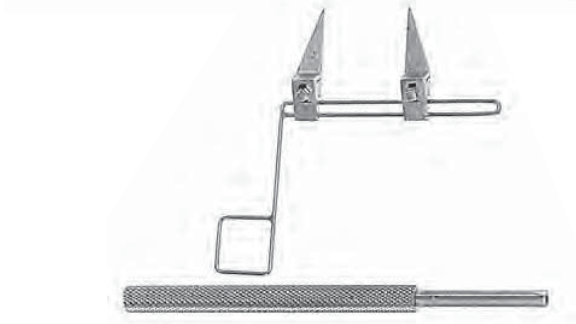
Product	Qty
7822 Schmidt Tonsil Clamp, Curved 20cm	1



7822

Gilbert O'Brien Approximator

Product	Qty
MCM13 Gilbert O'Brien Approximator	1



MCM13

Laborde Tracheal Dilator

Product	Qty
7840 Laborde Tracheal Dilator	1



7840

MICROFRANCE LARYNGEAL INSTRUMENTATION

Miscellaneous

Disposable Dental Splint

Product	Qty
7960 Disposable Dental Splint	1



7960

Stainless Steel Wire

Product	Qty
7755-1-0-4 Stainless Steel Wire in Coils of 70m	1

Item available but not shown.

Sluder Blade

Product	Qty
7808L-1 Sluder Blade N°1	1
7808L-2 Sluder Blade N°2	1
7808L-3 Sluder Blade N°3	1
7808M Sluder Handle	1



7808L-3



7808M

Vacher Snare for Tonsils

Product	Qty
7810 Vacher Snare for Tonsils	1
7810-3 Loop Preshaped for Snare 7810 (Q12)	1
7813-1 Loop Preshaped for 7813 (Q 12)	1



7810

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Toriumi Rhinoplasty Instrument Set

The guard and tip of the Toriumi Osteotome is specially shaped to glide along the lateral surface of the bone during lateral osteotomy with minimal trauma to superficial tissues. The Toriumi Curved Rasp has a greatly reduced cutting surface to allow a targeted reduction of the dorsal hump and radix, and the suction elevators provide visibility during septoplasty.

Developed in conjunction with Dean M. Toriumi, MD

Product	Description	Qty
37-17008	Toriumi Basic Rhinoplasty Instrument Set	1
<i>Set Includes:</i>		
CP1100	Toriumi Curved Rasp (8mm x 8mm Tip) Overall Length 210mm (8.3") Working Length 100mm (3.9")	1
CP1102	Toriumi Suction Elevator, Sharp, (4mm x 9mm Tip) Overall Length 185mm (7.3") Working Length 85mm (3.3")	1
CP1103	Toriumi Suction Elevator, Dull (4mm x 9mm Tip) Overall Length 185mm (7.3") Working Length 85mm (3.3")	1
CP1109	Toriumi Cartilage Template, Black Delrin 80mm Wide x 90mm Long, 1cm x 1cm Gridlines 3 Graft Template Sizes (6.87mm, 7.65mm, 10.30mm)	1
CP604BR	Adson Bipolar Forceps	
CP393	Bifurcated (Banana Plug) Bipolar Cable	1



CP1100



CP1102














CP1103



MicroFrance®
Instrumentation

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Toriumi Rhinoplasty Instrument Set (continued)

Product	Description	Qty	
37-14038	Freer Septum Elevator, Double End, 4.5mm, Overall Length 190mm (7.5")	1	 37-14038
37-14125	Joseph Periosteal Elevator, Lt Curve	1	 37-14125
37-14127	Cottle Septum Elevator, Double End, Graduations, Overall Length 216mm (8.5")	1	 37-14127
37-11002	Lucae Ear Forceps, Delicate, Bayonet, Overall Length 146mm (5.75")	1	 37-11002
37-11021	Takahashi Nasal Forceps, 4x9mm Jaws, Short Shaft	1	 37-11021
37-40039	Brown-Adson Tissue Forceps, Straight, Overall Length 121mm (4.75") (not shown)	2	
37-40028	Adson Delicate Tissue Forceps, 2x3 Teeth, Overall Length 121mm (4.75")	1	 37-40028
37-40051	Bishop-Harmon Tissue Forceps, 1x2 Teeth, 0.3mm Teeth, Overall Length 86mm (3.375")	1	 37-40051
37-40053	Bishop-Harmon Tissue Forceps, 1x2 Teeth, Curved, Overall Length 86mm (3.375") (not shown)	1	
37-55101	Halstead Mosquito Forceps, Straight, Overall Length 127mm (5")	1	 37-55101
37-55102	Halstead Mosquito Forceps, Curved, Overall Length 127mm (5") (not shown)	1	
37-14045	Double Fixation Hook, 3mm, Overall Length 133mm (5.25")	1	
37-14021	Joseph Skin Hook, Double Prong, 5mm, Overall Length 159mm (6.25") (not shown)	1	
37-14023	Joseph Skin Hook, Double Prong, 10mm, Overall Length 159mm (6.25") (not shown)	1	
37-14110	Cottle-Joseph Double Hook, Two Prong, 12mm, Overall Length 137mm (5.375")	1	
37-14020	Joseph Skin Hook, Double Prong, 2mm, Overall Length 159mm (6.25")	1	
37-14179	Converse Nasal Retractor, Overall Length 112mm (4.375")	1	
37-14681	Neivert Knife Guide and Retractor, Overall Length 165mm (6.5")	1	
37-44012	Webster Needle Holder, Smooth Jaws, Overall Length 114mm (4.5")	1	 37-44012
37-14059	Osteotome, 2mm Wide, Overall Length 159mm (6.25")	1	
37-14076	Rubin Osteotome, 14mm Wide, 12mm Edge	1	
37-14077	Rubin Osteotome, 16mm Wide, 14mm Edge (not shown)	1	
37-14060	Osteotome, 3mm Wide, Overall Length 159mm (6.25")	1	
37-40086	Ruler 6", Stainless Steel, millimeters and inches	1	
37-52008	Castroviejo Needle Holder, Straight, Delicate, with Lock, 10mm Jaws, Overall Length 140mm (5.25")	1	
37-14148	Fomon Rasp, Fine (not shown)	1	
37-14149	Fomon Rasp, Coarse	1	
37-14063	Osteotome, 5mm Wide, Overall Length 159mm (6.25") (not shown)	1	
37-13005	Iris Scissors, Curved, Lower Blade Serrated, 105mm (4.125") (not shown)	1	
37-13013	Stevens Tenotomy Scissors, Standard, Blunt Tips, Straight 25mm Blades, 112mm (4.375")	1	
37-13014	Stevens Tenotomy Scissors, Standard, Blunt Tips, Curved 25mm blades, 112mm (4.375") (not shown)	1	
37-41033	Stitch Scissors, Ribbon Type, Very Sharp Points, 98mm (3.875") (not shown)	1	
37-41076	Metzenbaum Scissors, Delicate, Curved, Overall Length 133mm (5.25") (not shown)	1	
37-41164	Wilmer Corj, Scissors, Angled Blades, Sharp Tips (not shown)	1	
37-14201	Vienna Nasal Speculum, 30mm Blades, Size 3	1	
37-14472	Cottle Septum Speculum, Thin 50mm Blades	1	
37-14206	Killian Septum Speculum, 64mm Blades	1	
37-14004	Frazier Suction Tube, Medium Angle, Working Length 100mm (4") 10 French	1	
37-14353	Cottle Mallet, 7 oz, 1 Nylon Head, 1 SS Head, Overall Length 191mm (7.5")	1	
37-40000	Knife Handle, #3	2	
37-50012	Cartilage Crusher, Overall Length 70mm (2.75")	1	 37-50012
37-17011	Toriumi Rhinoplasty Sterilization Tray (not shown)	1	
37-14001	Frazier Suction Tube, Medium Angle, 7FR	1	
CP313-1	Becker Single Guarded Osteotome, 3mm Blade	1	 37-14681

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Toriumi Rhinoplasty Instruments (continued)

Listed on previous page



37-44012



37-14004



37-14059



37-14353



37-14076



37-40000



37-40086



37-52008



37-50012



37-14149



37-13013



37-14001



37-14201



CP313-1



37-14472



37-14206

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Becker Rhinoplasty Instruments

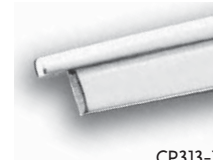
The Becker Converse Scissors are specially shaped to meet the needs of rhinoplasty surgeons, and can be used equally well for sharp incisions or blunt dissection in a number of applications. The 2.5mm and 3mm single-guarded osteotomes have been designed to perform lateral osteotomy precisely with minimal trauma to surrounding tissues, and the double-ended carbide rasps have a reduced cutting surface to allow targeted reduction of bony structures. The diamond-coated jaws of the Diamond-Jaw Needle Holder allow a secure grip on needles and suture with minimal risk of abrasive damage.

Developed in conjunction with Daniel G. Becker, MD

Product	Description	Qty
CP313	Becker Single-Guarded Osteotome, 2.5mm Overall Length 200mm (7.9")	1
CP313-1	Becker Single-Guarded Osteotome, 3.0mm Overall Length 200mm (7.9")	1
CP1104	Becker Double-Ended Rasp, 1 & 2 Grit (7mm x 20mm Tips) Overall Length 210mm (8.3") Working Length 75mm (3")	1
CP1105	Becker Double-Ended Rasp, 3 & 4 Grit (7mm x 20mm Tips) Overall Length 210mm (8.3") Working Length 75mm (3")	1
CP1106	Becker Converse Scissors, Serrated 15mm Blades Overall Length 90mm (3.5")	1
CP1107	Becker Diamond-Jaw Needle Holder Ratchet Lock, (4mm x 15mm Tip) Overall Length 130mm (5.1")	1



CP313



CP313-1



CP1104



CP1106



CP1105



MCLS34



MICROFRANCE RHINOPLASTY INSTRUMENTATION

Osteotomes

Straight Osteotome

Product	Qty
CP304-10 Straight Osteotome, 10mm	1
CP304-12 Straight Osteotome, 12mm	1
CP304-2 Straight Osteotome, 2mm	1
CP304-3 Straight Osteotome, 3mm	1
CP304-4 Straight Osteotome, 4mm	1
CP304-6 Straight Osteotome, 6mm	1
CP304-8 Straight Osteotome, 8mm	1



CP304-6

Curved Osteotome

Product	Qty
CP304B-4 Curved Osteotome, 4mm	1



CP304B-4

Claoue Osteotome with Guard

Product	Qty
CP305 Claoue Osteotome with Guard	1



CP305

Becker Single-Guarded Osteotome

Product	Qty
CP313 Becker Single Guarded Osteotome, 2.5mm	1
CP313-1 Becker Single Guarded Osteotome, 3mm	1



CP313

Mac Indoe Osteotome

Product	Qty
CP314-14 Mac Indoe Osteotome, 14mm	1



CP314-14

Marchac Osteotome

Product	Qty
CP315 Marchac Osteotome with Guard	1



CP315

Pech-Cannoni Osteotome

Product	Qty
CP315D Pech-Cannoni Osteotome, Right	1
CP315G Pech-Cannoni Osteotome, Left	1



CP315D



CP315G

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Rasps

Rees Double Rasp

Product	Qty
CP301-5 Rees Double Rasp	1



CP301-5

Diamond Rasp

Product	Qty
CP809 Diamond Rasp, Curved	1
CP810 Diamond Rasp, Straight	1



CP809

CP810

Retractors

Senn Miller Double Retractor

Product	Qty
CP609 Senn Miller Double Retractor	1



CP609

Aufricht Retractor

Product	Qty
CP306 Aufricht Retractor	1



CP306

Double Retractor with Loop and Ball

Product	Qty
CP630 Double Retractor with Loop and Ball	1



CP630

Ragnell Retractor

Product	Qty
CP632 Ragnell Double Retractor	1



CP632

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Scissors

Very Curved Scissors for Cartilage

Product	Qty
CP353 Very Curved Scissors for Cartilage, 100mm	1



CP353

Becker Converse Scissors

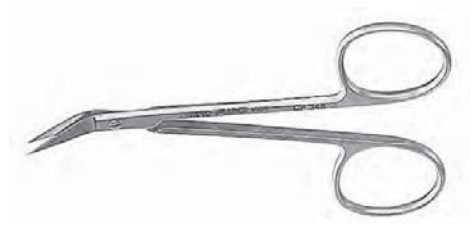
Product	Qty
CP1106 Becker Converse Scissors	1



CP1106

Converse Scissors

Product	Qty
CP348 Converse Scissors, 100mm	1



CP348

Cartilage Scissors

Product	Qty
CP350 Cartilage Scissors, 180mm Straight	1



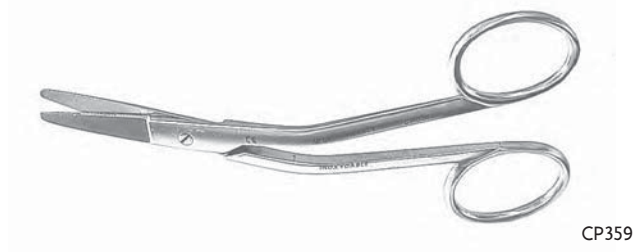
CP350

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Scissors

Pellegrini Scissors

Product	Qty
CP359 Pellegrini Scissors, 150mm	1



Cottle Scissors

Product	Qty
CP614 Cottle Scissors, 165mm, Angled	1



Heymann Scissors

Product	Qty
CP615-1 Heymann Scissors, Serrated Blades	1



Heymann-Klossek Scissors

Product	Qty
CP615-2 Heymann-Klossek Scissors, Left	1

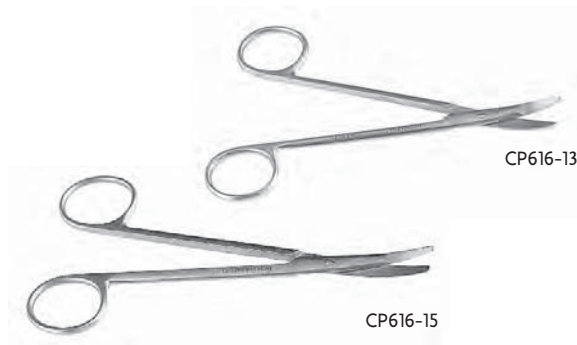


MICROFRANCE RHINOPLASTY INSTRUMENTATION

Scissors

Ragnell Scissors

Product	Qty
CP616-13 Ragnell Scissors, Curved 130mm	1
CP616-15 Ragnell Scissors, Curved 150mm	1



Stevens Scissors

Product	Qty
CP922A Stevens Scissors, Curved 110mm	1



Shea Scissors

Product	Qty
CP637 Shea Scissors, 120mm	1



Peynegre Scissors

Product	Qty
MCEN41-1 Peynegre Straight Nasal Scissors	1



Rouvier Scissors, Curved Left

Product	Qty
MCEN42 Rouvier Scissors, Curved Left	1



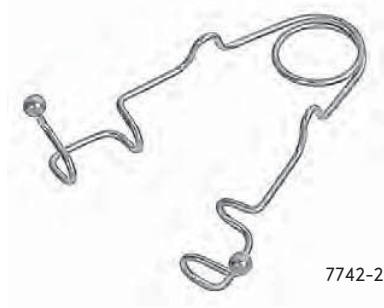
MicroFrance®
Instrumentation

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Specula

Palmer Nasal Speculum

Product		Qty
7742-2	Palmer Nasal Speculum Size N°2	1
7742-3	Palmer Nasal Speculum Size N°3	1



Vacher Nasal Speculum

Product		Qty
7746A	Vacher Nasal Speculum, Child Size	1
7746B	Vacher Nasal Speculum, Adult Size	1



Hartmann Nasal Speculum

Product		Qty
7898	Hartmann Nasal Speculum	1



Killian Nasal Speculum

Product		Qty
CP624-45	Killian Nasal Speculum, 450mm	1
CP624-55	Killian Nasal Speculum, 550mm	1
CP624-65	Killian Nasal Speculum, 650mm	1
CP624-75	Killian Nasal Speculum, 750mm	1

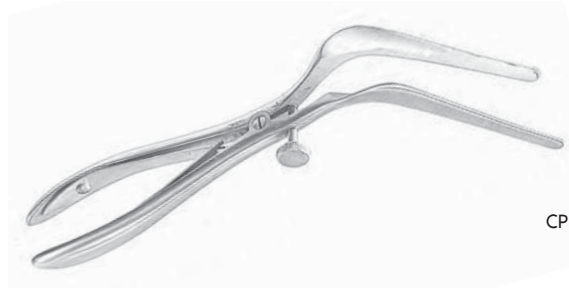


MICROFRANCE RHINOPLASTY INSTRUMENTATION

Specula

Cottle Nasal Speculum

Product		Qty
CP949-45	Cottle Nasal Speculum, 450mm	1
CP949-55	Cottle Nasal Speculum, 550mm	1
CP949-75	Cottle Nasal Speculum, 750mm	1



CP949-75

Miscellaneous

Lermoyez Nasal Snare

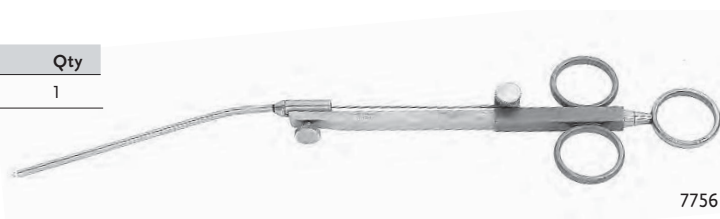
Product		Qty
7754-2	Lermoyez Nasal Snare	1
7754-3	Loop Preshaped for Snare 7754-2(Q20)	1



7754-2

Krause Nasal Snare

Product		Qty
7756	Krause Nasal Snare	1



7756

Mallet

Product		Qty
CP300	Mallet, Two Flat Faces	1



CP300

MICROFRANCE RHINOPLASTY INSTRUMENTATION

Miscellaneous

Faraboeuf Raspatory

Product	Qty
7787-10 Faraboeuf Raspatory Curved 10mm	1



7787-10

Mac Kenty Raspatory

Product	Qty
CP627 Mac Kenty Double Raspatory	1



CP627

Round Hook

Product	Qty
CP628 Round Hook	1



CP628

Humby Double Hook

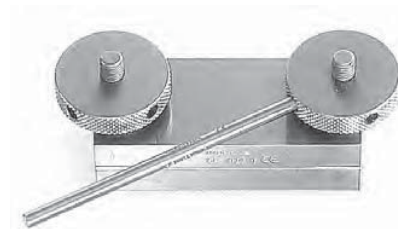
Product	Qty
CP941 Humby Double Hook	1



CP941

Jost Crusher for Cartilage

Product	Qty
CP814-1 Jost Crusher For Cartilage	1



CP814-1

MICROFRANCE GENERAL ENT INSTRUMENTS

Forceps

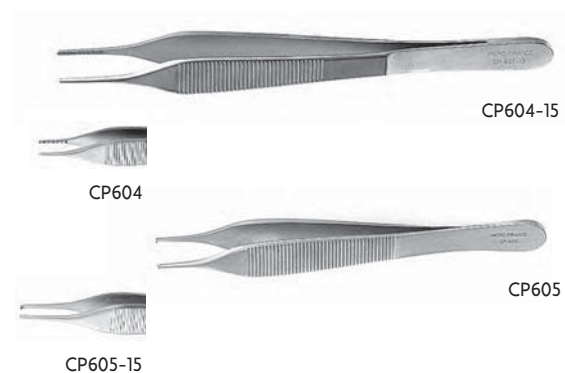
Atraumatic Tissue Forceps

Product		Qty
CP400	Atraumatic Tissue Forceps, 140mm	1
CP400-1	Atraumatic Tissue Forceps, 120mm	1
CP400-2	Atraumatic Tissue Forceps, 180mm	1



Adson Forceps

Product		Qty
CP604	Adson Forceps	1
CP604-15	Adson Forceps, 150mm	1
CP605	Adson Forceps with Teeth	1
CP605-15	Adson Forceps with Teeth, 150mm	1



Adson Brown Forceps

Product		Qty
CP606	Adson Brown Forceps	1
CP606A	Adson Forceps Tongsten	1



Adson Bipolar Forceps

Product		Qty
CP604BR	Adson Bipolar Forceps	1
CP605BR	Adson Bipolar Forceps with Teeth	1



Adson Monopolar Forceps

Product		Qty
CP604M	Adson Monopolar Forceps	1
CP605M	Adson Monopolar Forceps with Teeth	1



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MICROFRANCE GENERAL ENT INSTRUMENTS

Forceps

Mac Indoe Forceps

Product	Qty
CP934 Mac Indoe Forceps with Teeth, 140mm	1
CP936 Mac Indoe Forceps with Teeth, 170mm	1



Lucae Forceps

Product	Qty
7726MF Lucae Forceps, 15cm, Serrated jaws	1
7727 Lucae Forceps, Spoon Jaws	1
7728 Lucae Forceps, 1x2 Teeth	1



Bipolar Forceps

Product	Qty
CP392-8R Bipolar Forceps, 160mm Angled	1

Item available but not shown.

Barraya Forceps

Product	Qty
CP933-18 Barraya Forceps, 180mm	1

Item available but not shown.

Chaput Forceps

Product	Qty
7866-13 Chaput Forceps, 130mm	1

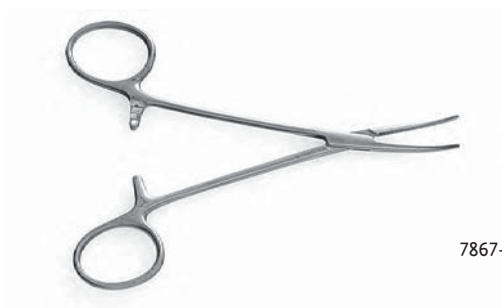


MICROFRANCE GENERAL ENT INSTRUMENTS

Forceps

Leriche Forceps

Product		Qty
7867-1	Leriche Forceps, 150mm, Straight	1
7867-2	Leriche Forceps, 150mm, Curved	1



7867-2

Castroviejo Forceps

Product		Qty
CP37	Castroviejo Forceps	1



CP37

Miscellaneous

Washers

Product		Qty
7779MF-1	White Washer	1
7779MF-2	Grey Washer	1

Item available but not shown.

Cables

Product		Qty
CP391-3	Monopolar Cable	1
CP393-2	Valleylab Bipolar Cable with Fixed Extension	1
CP393-3	Erbe Bipolar Cable	1
CP393-4	Berthold Martin Bipolar Cable	1

Item available but not shown.

Stainless Steel Box

Product		Qty
7874MF-40	Stainless Steel Box 400x200x90mm	1



MICROFRANCE GENERAL ENT INSTRUMENTS

Miscellaneous

Rouvier Monopolar Aspirating

Product	Qty
MCEN102 Rouvier Monopola, Aspirating	1



MCEN102

Freche Monopolar Lancet

Product	Qty
MCEN105 Freche Monopolar Lancet	1



MCEN105

Rouvier Monopolar Electrode

Product	Qty
MCEN111 Rouvier Monopolar Electrode	1



MCEN111

MICROFRANCE GENERAL ENT INSTRUMENTS

Needle Holders

Halsey Needle Holder

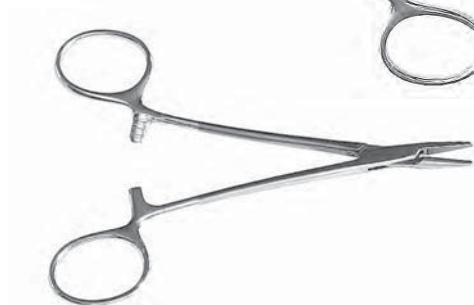
Product	Qty
703T Halsey Needle Holder, 130mm	1



703T

Halsey Needle Holder

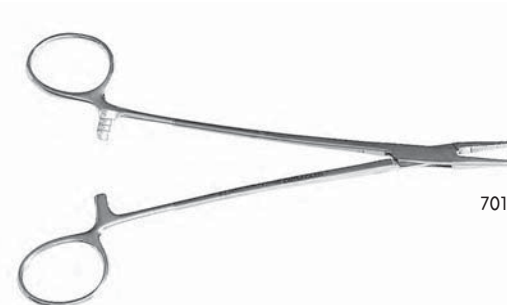
Product	Qty
704T Halsey Needle Holder, 110mm, Smooth Jaws	1



704T

Mayo Hegard Needle Holder

Product	Qty
701T Mayo Hegard Needle Holder, 180mm	1



701T

O'Brien Needle Holder

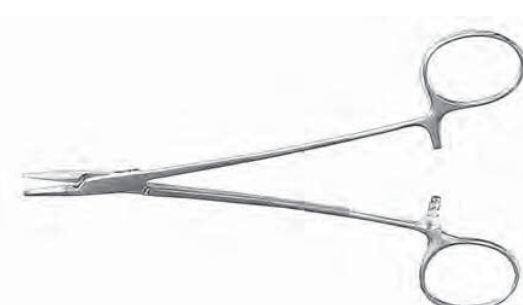
Product	Qty
MCM12R O'Brien Needle Holder, 150mm	1



MCM12R

Crile-Wood Needle Holder

Product	Qty
702T Crile-Wood Needle Holder, 150mm	1



702T

MICROFRANCE GENERAL ENT INSTRUMENTS

Scissors

Converse Scissors

Product	Qty
CP348 Converse Scissors, 100mm	1



CP348

Cartilage Scissors

Product	Qty
CP350 Cartilage Scissors, 180mm	1



CP350

Pellegrini Scissors

Product	Qty
CP359 Pellegrini Scissors, 150mm	1



CP359

Cottle Scissors

Product	Qty
CP614 Cottle Scissors, 165mm Angled	1



CP614

Becker Converse Scissors

Product	Qty
CP1106 Becker Converse Scissors	1



CP1106

MICROFRANCE GENERAL ENT INSTRUMENTS

Scissors

Heymann Scissors

Product	Qty
CP615-1 Heymann Scissors	1



CP615-1

Heymann-Klossek Scissors

Product	Qty
CP615-2 Heymann-Klossek Scissors, Left	1
CP615-3 Heymann-Klossek Scissors, Right	1



CP615-2

Ragnell Scissors

Product	Qty
CP616-13 Ragnell Scissors, Curved 130mm	1
CP616-15 Ragnell Scissors, Curved 150mm	1



CP616-13



CP616-15

Stevens Scissors

Product	Qty
CP922A Stevens Scissors, Curved	1



CP922A

Shea Scissors

Product	Qty
CP637 Shea Scissors, 120mm	1



CP637

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MICROFRANCE GENERAL ENT INSTRUMENTS

Scissors

Streiff Scissors

Product	Qty
CP16 Streiff Scissors, Straight	1
CP16-1 Streiff Scissors, Curved	1



Scissors, 120mm

Product	Qty
CP354 Scissors, 120mm, Straight	1
CP354A Scissors, 120mm, Curved	1



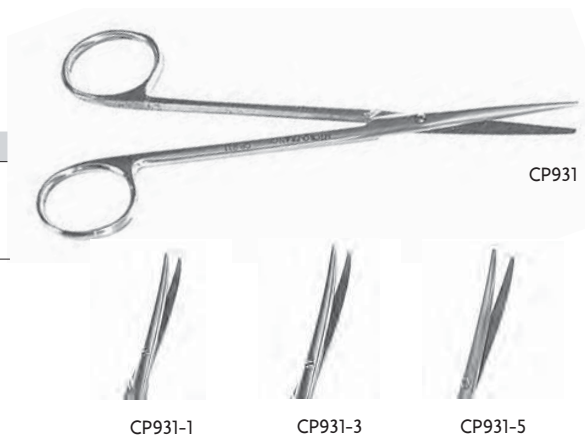
Scissors, 160mm, Bayonet

Product	Qty
CP914 Scissors, 160mm, Bayonet	1



Metzenbaum Scissors

Product	Qty
CP931 Metzenbaum Scissors, 150mm, Delicate Straight	1
CP931-1 Metzenbaum Scissors, 150mm, Delicate Curved	1
CP931-3 Metzenbaum Scissors, 180mm, Delicate Curved	1
CP931-5 Metzenbaum Scissors, 200mm, Delicate Curved	1



NUMERICAL LISTING

0-28	242	0579	100	10-16503	77
0-28-1	242	0580	100	10-19101	81
0-28-2	242	0581	100	10-19201	81
0-28-3	242	0590	109	10-19301	81
0-28-4	242	10-02341	79	10-21000	74
0-28-7	242	10-10000	81	10-25001	75
0-28-8	242	10-10005	81	10-25002	75
00-09900	112	10-10030	72	10-25004	75
0208	84	10-10031	72	10-25005	75
0300	102	10-10035	72	10-25006	75
0305	102	10-10040	81	10-25007	75
0321	102	10-10045	81	10-25020	80
0322	108	10-10050	81	10-25040	75
0342	103	10-10055	72	10-25045	75
0343	103	10-10056	72	10-25046	75
0352	95	10-10101	76	10-26001	75
0361	102	10-10103	76	10-26010	79
0362	95	10-10150	81	10-26011	74
0363	102	10-10170	72	10-26012	78
0364	95	10-10171	72	10-26014	78
0427	90	10-10201	76	10-26020	74
0428	90	10-10202	76	10-26025	77
0429	90	10-10203	76	10-26030	78
0440	90	10-10301	76	10-26040	79
0500	105	10-11015	75	10-26045	75
0501	105	10-11030	79	10-26055	72
0508	109	10-12010	75, 81	10-26140	81
0510	106	10-12015	74, 81	10-26145	77
0515	106	10-12050	77, 81	10-26146	77
0516	99	10-13015	74	10-27010	76
0518	104	10-13020	74	10-27015	76
0520	106	10-13021	74	10-27016	76
0523	105	10-13201	77	10-27017	76
0524	98	10-13301	77	10-27018	76
0525	104	10-13302	77	10-27040	76
05251	104	10-13303	77	10-27060	76
0526	97	10-14242	72	10-27065	76
0527	104	10-15101	74	10-27070	76
0528	97	10-15102	74	10-28010	77
0529	104	10-15201	74	10-28011	77
0530	105	10-16010	79	10-28015	77
0531	98	10-16011	79	10-28025	77
0532	105	10-16020	74	10-28026	77
0540	105	10-16025	74, 81	10-28030	76
0541	98	10-16030	78	10-28035	76
05421	104	10-16035	79	10-28065	80
0543	98	10-16040	79	10-28070	80
0550	98	10-16041	79	10-28080	80
0551	98	10-16101	77	10-28081	80
0557	99	10-16102	77	10-28145	77
0559	106	10-16103	77	10-28146	77
0564	106	10-16201	77	10-30030	72
0565	106	10-16203	77	10-30170	72
0567	99	10-16301	77	10-33000	74
0568	99	10-16501	77	10-35004	75
0570	99	10-16502	77	10-36121	81

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10-36159	80	10-56159	80	10-84403	79
10-36162	76	10-56160	77	10-85501	74
10-36165	81	10-56162	76	10-85502	74
10-36177	75	10-56165	81	10-86601	77
10-37000	76	10-56166	81	10-86602	77
10-37005	76	10-56167	81	10-87701	79
10-37703	79	10-56170	74	10-87702	79
10-38012	77	10-56174	76	10-88801	78
10-38030	76	10-56177	75	10-88802	78
10-38040	77	10-56179	73	1010020111	145
10-38050	81	10-56705	75	1010020211	145
10-40001	79	10-64403	79	1010020601	145
10-40002	79	10-66005	75	1010021005	145
10-40004	76	10-66010	74	1010021006	145
10-40006	75	10-66012	78	1010021008	145
10-40014	75	10-66016	79	1010021015	145
10-40019	75	10-66018	80	1010021016	145
10-40022	81	10-66032	72	1010021017	145
10-40041	76	10-66033	72	1010021018	145
10-40045	72	10-66036	75	1010021019	145
10-40055	77	10-66037	77	1010021022	145
10-46001	75	10-66039	75	1010021023	145
10-46020	74	10-66106	78	1010021024	145
10-46025	77	10-66107	75	1010021025	145
10-46055	72	10-66108	75, 80	1010021027	145
10-46145	77	10-66110	76	1010021040	145
10-56005	75	10-66111	78	1010021041	145
10-56010	74	10-66112	76	1010021042	145
10-56012	78	10-66113	75	1010021043	145
10-56015	79	10-66120	81	1010021044	145
10-56016	79	10-66121	81	1010021045	145
10-56018	80	10-66154	77	11-12045	103
10-56019	79	10-66155	77	11-12050	103
10-56030	81	10-66159	80	11-12065	96
10-56031	81	10-66160	77	11-12070	96
10-56032	72	10-66165	81	11-12075	95
10-56033	72	10-66177	75	11-12080	103
10-56036	75	10-66179	73	11-12085	103
10-56037	77	10-70011	79	11-12090	96
10-56039	75	10-70031	79	11-12095	96
10-56101	80	10-70032	79	11-12120	97
10-56102	80	10-70051	79	11-12184	100
10-56104	75	10-70052	79	11-12185	100
10-56106	78	10-76032	72	11-12190	108
10-56107	75	10-76111	78	11-12194	107
10-56108	75, 80	10-81101	72	11-12195	107
10-56109	78	10-81102	72	11-12197	100
10-56110	76	10-81103	72	11-12303	107
10-56111	78	10-82201	75	11-12362	100
10-56112	76	10-82202	75	11-12363	107
10-56113	75	10-82203	75	11-17035	90
10-56114	77	10-83301	77	11-17040	90
10-56120	81	10-83302	77	11-17045	90
10-56121	81	10-83303	77	11-25020	91
10-56154	77	10-84401	79	11-25025	91
10-56155	77	10-84402	79	11-28110	91

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11-28120	91	11-56234	90	13-16005	82, 182
11-28125	91	11-56235	90	13-52237	82
11-28130	91	11-56236	90	13-52238	82
11-28135	91	11-56241	88	13-52247	226
11-28140	91	11-56255	90	13-52248	226
11-28145	91	11-56256	90	13-52294	111
11-28150	91	11-56257	90	13-52321	84, 174
11-28155	91	11-56258	90	13-52325	84
11-28160	91	11-56278	89	13-52396	65, 66
11-28165	91	11-56279	89	13-52400	64, 66
11-28450	110	11-56280	89	13-52401	64
11-29015	88	11-56281	89	13-52402	64
11-29020	88	11-56282	89	13-52403	64
11-29030	88	11-56283	89	13-52404	64
11-29040	88	11-56295	109	13-52407	64, 66
11-29045	88	11-56296	101	13-52408	64
11-29050	88	11-56297	101	13-52409	64
11-29055	88	11-56303	108	13-52410	64
11-29065	88	11-56305	108	13-52412	64
11-29070	88	11-56307	108	13-52413	64
11-31000	89	11-56308	109	13-52415	64, 65, 66
11-31050	89	11-56310	109	13-53400	65
11-33001	93	11-56314	88	13-53401	65
11-33002	93	11-56316	88	13-53402	65
11-33003	93	11-56324	90	13-53403	65
11-33004	93	11-56325	90	13-53404	65
11-33005	93	11-56326	90	13-53405	65
11-33006	93	11-56332	91	13-53406	65
11-33007	93	11-56333	91	13-53407	65
11-33008	93	11-56361	101	13-53408	65
11-33061	92	11-56362	101	13-53409	65
11-33062	92	11-56363	109	13-53410	65
11-33063	92	11-56376	101	13-53411	65
11-33064	92	11-56404	110	13-53412	65
11-33065	92	11-56452	92	13-53413	65
11-33066	92	11-56453	92	13-53414	65
11-33120	92	11-56454	92	13-58225	112
11-33125	92	11-56468	92	13-58227	112
11-33135	92	11-56469	92	13-58270	111
11-33180	92	11-56470	92	13-59254	112
11-33185	92	11-56479	89	13-59256	112
11-33190	92	11-56480	89	13-59258	112
11-33195	92	11-56481	89	13-59260	112
11-33600	92	11-60000	94	13-59262	112
11-33650	92	11-60050	94	13-59264	112
11-50001	93	111-50000	93	1352305	230
11-50050	93	1156601	88	14-11000	84
11-56210	91	1156602	88	14-11050	84
11-56211	91	1156603	88	14-15000	112
11-56212	91	1156604	88	14-15005	112
11-56213	91	1156611	88	14-16000	82
11-56214	91	1156612	88	14-16010	82
11-56221	90	1156613	88	14-16020	82
11-56222	90	1156621	88	14-16030	82
11-56223	90	1156622	88	14-17000	115

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14-17151	116	15-24075	134	18-80100	46
14-19010	111	15-24105	136	18-80150	45
14-19020	111	15-24110	136	18-80151	45
14-23000	189	15-26000	132	18-80152	45
14-23002	189	15-26800	131	18-80153	45
14-23004	189	15-27000	135	18-80154	45
14-25008	123	15-27005	135	18-80155	45
14-25010	123	15-27010	135	18-80160	45
14-25020	110	15-27015	135	18-80161	45
14-28005	110	15-27020	135	18-80500	46
14-28010	110	15-27025	135	18-81000	45
14-36400	84	15-27030	131	18-82040	22
14-36500	84	15-27031	131	18-82040HR	22
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14-58232	83, 175	15-28116	132	18-82902	21
14-58233	83, 175	15-28120	133	18-82902HRE	21
14-58234	83, 175	15-28121	133	18-82904	21
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14-58276	83, 175	15-28136	132	18-82905	22
1400-2	78	15-28137	133	18-82905HRE	22
14051	76	15-28138	133	18-82916	25
1406-2	76	15-29000	133	18-82923	28
1412-1	76	15-29010	133	18-82923HRE	28
1412-2	76	15-29020	133	18-82924HRE	28
1413-1	76	15-29100	133	18-82925	28
1413-2	76	15-29110	133	18-82925HRE	28
1414-1	77	15-29120	133	18-82936E	29
1414-2	77	15-32500	138	18-82937E	29
1416-1	77	15-32505	138	18-82940	22
14181	76	15-32510	138	18-82940HR	22
1425-1	76	15-32520	138	18-82960	27
1425-2	76	15-32530	138	18-83070HS	26
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1431-1	76, 80	15-32600	138, 151	18-83260	30
1435-1	81	15-39000	133	18-83262HS	27
1440-1	76	15-39010	133	18-83264HS	27
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1461-2	73	16-50030	142, 261	18-83504HR	21
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1462-2	73	1611-1 or 2	76	18-83507	24
1464-1	75	1619-1	80	18-83507RT	24
1464-2	75	1622-1	76	18-83512HRE	23
15-14000	132	1622-2	76	18-83514	23
15-15000	130	18-50010	48	18-83514RT	23
15-16000	134	18-50100	47	18-83516	25
15-16010	134	18-50150	47	18-83516HRE	24
15-17000	115, 123	18-50175	47	18-83516RT	24
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15-17100	115, 123	18-50250	47	18-83519HR	25
15-22000	136	18-50275	47	18-83523	28
15-24050	134	18-50300	47	18-83524	28
15-24055	134	18-50500	47	18-83525	28

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18-83672HS	26	18-95820	18	19-91021	46
18-83673HS	26	18-95821	18	19-91022	46
18-84002	21	18-95822	18	19-91023	46
18-84002HRE	21	18-95823	18	19-91024	46
18-84004	21	18-96840	18	19-92208	30
18-84004HR	21	18-97008	18	19-92210	30
18-84005	22	18-97009	18	19-94025	19
18-84005HRE	22	18-97101	18	1MTD201	137
18-84006	23	18-97200	18, 19	1MTD202	137
18-84006HR	23	18-97510	18	1MTD203	137
18-84006M	25	18-97851A	18	22-18525	137
18-84008	30	18-97851B	18	22-18530	137
18-84008TA	30	18-97851C	18	22-18535	137
18-84010	30	18-97851D	18	2415-1	74
18-84012	23	18-98200T	19	2415-2	74
18-84012HR	23	1853100	259	2416-1	74
18-84012M	25	1895400	17, 18	2416-2	74
18-84013	30	1895820	17	2420-1	77
18-84016	24	1895821	17	2420-2	77
18-84016HR	24	1895822	17	2444-1	75
18-84020	29	1895823	17	2444-2	75
18-84023	28	1896840	18	2445-1	75
18-84024	29	1897102	17, 18	2445-2	75
18-84030	29	1897200	18	2446-1	75
18-84030HRE	29	1897510	18	2446-2	75
18-84031	29	1897851A	17	2450-1	72
18-84031HRE	29	1897851B	17	2450-2	72
18-84032	29	1897851C	17	2462-1	76
18-84033	29	1897851D	17	2463-1	73
18-84033HRE	29	1898000	17	2463-2	73
18-84035HRE	29	1898200T	17	2465-1	73
18-84068HS	26	1898400	17	2465-2	73
18-84501	27	19-10019	46	2470-1	73
18-84507	30	19-12000	47	2470-2	73
18-84560HS	27	19-12002	47	2471-2	79
18-84562HS	27	19-12004	47	2475- 2	79
18-84566	30	19-12008	47	2475-1	79
18-85061HS	26	19-12010	47	2477-1	79
18-86100	45	19-12012	47	2477-2	79
18-86300	46	19-12013	47	2481-1	80
18-86301	27	19-12014	47	2481-2	80
18-86400	46	19-12015	47	2544-1	75
18-92000	27	19-12018	47	2544-2	75
18-92001	27	19-12019	47	2544-3	75
18-92002	27	19-12020	47	2550-1	72
18-92003	27	19-12023	47	2550-2	72
18-93000	27	19-12024	47	2569-1	73
18-93001	27	19-12027	47	2569-2	73
18-93007	27	19-12028	47	2663-1	73
18-95400	18, 19	19-12030	47	30-52460	20
18-95410	18	19-12031	47	30-55600	20
18-95500	19	19-12032	47	30-55601	19, 20
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18-95506	46	19-22100	30	300501	138
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300506	138	31-115051	38	31-135051	39
300507	138	31-115059	38	31-135059	39
300509	138	31-115066	38	31-135066	39
300510	138	31-11520	19	31-136050	39
300514	138	31-116050	38	31-136058	39
300515	138	31-116058	38	31-136065	39
31-011064	37	31-116065	38	31-140564	34
31-011464	37	31-12500	31	31-141064	34
31-012364	37	31-12517	37	31-141075	34
31-012764	37	31-12518	37	31-141564	34
31-016064	37	31-12520	37	31-141575	34
31-031064	35	31-12525	37	31-142064	34
31-031464	35	31-12530	37	31-142075	34
31-032364	35	31-12535	37	31-142364	34
31-032764	35	31-12540	37	31-151098E	32
31-033764	35	31-12542	37	31-151598E	32
31-034664	35	31-12545	37	31-152090E	33
31-035051	35	31-12554	37	31-1710115E	33
31-036051	35	31-12600	19, 31	31-1715115E	33
31-036951	35	31-12810C	35	31-1720115E	33
31-060564	36	31-12815C	35	31-180598E	32
31-061064	36	31-12820C	35	31-180698E	32
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31-065551	36	31-12845C	35	31-18515	19, 31
31-066064	36	31-12850C	35	31-18535	19
31-066551	36	31-12900C	34	31-1910115E	33
31-067051	36	31-12901C	34	31-1920115E	33
31-100575	39	31-12906C	34	31-202090E	33
31-101075	39	31-12907C	34	31-2120115E	33
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31-103075	39	31-12915C	34	31-21516	37
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31-111071	38	31-12964C	34	31-21518	37
31-111075	38	31-12974C	34	31-216046U	34
31-111555	38	31-130556	39	31-217045U	34
31-111570	38	31-130571	39	31-27520	36
31-111575	38	31-131056	39	31-27525	36
31-112055	38	31-131071	39	31-27530	36
31-112070	38	31-131555	39	31-27535	36
31-112075	38	31-131570	39	31-27653	36
31-112554	38	31-132055	39	31-27654	36
31-112569	38	31-132070	39	31-27655	36
31-112575	38	31-132554	39	31-27754	36
31-113054	38	31-132569	39	31-27755	36
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31-113075	38	31-133069	39	31-55610	20
31-113554	38	31-133553	39	31-55615	20
31-113568	38	31-133568	39	31-55621	41
31-114053	38	31-134053	39	31-55623	41
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31-55627	40	37-11032	162	37-11145	160
31-55628	41	37-11035	159	37-11146	160
31-55631	20, 40	37-11036	159	37-11200	156
31-55632	20, 40	37-11037	159	37-11201	156
31-55634	40	37-11038	160	37-11202	156
31-55635	20, 40	37-11039	161	37-11203	156
31-55636	40	37-11040	161	37-11204	156
31-55637	20, 40	37-11041	161	37-11205	156
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31-55639	40	37-11043	160	37-11213	156
31-55641	20, 40	37-11044	160	37-12012	163
31-55642	20, 40	37-11045	160	37-12013	164
31-55643	40	37-11046	161	37-12014	164
31-55645	40	37-11047	161	37-12015	165
31-55646	40	37-11048	161	37-12016	165
31-55647	20, 40	37-11049	155	37-12017	165
31-55648	20, 40	37-11050	155	37-12021	166
31-58201	20	37-11051	155	37-12022	164
33-12500	19	37-11052	155	37-12023	163
33-18501	19	37-11053	155	37-12024	163
33-18503	19	37-11054	155	37-12025	165
33-18506	19	37-11055	155	37-12026	165
33-18600	19	37-11056	155	37-12027	165
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33-33610	19	37-11064	156	37-12033	163
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33-33635	19	37-11066	158	37-12038	164
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37-11004	159	37-11084	156	37-12118	163
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37-11006	159	37-11086	156	37-12124	163
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37-11010	157	37-11089	157	37-12301	157
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