

# Product Catalog



## And So It Began...

The Anspach Effort, Inc. was founded in 1978 by Dr. William Anspach, Jr., whose primary goal was "to create a reliable and more efficient instrument" for performing Orthopaedic Surgery. Today, Dr. Anspach's goal of developing a "better way" still exists. His initiative and desire has grown from a one-man effort into a worldwide operation.

### Mission Statement

**The Mission of the Anspach Companies is to provide products and services to EVERY customer in such a memorable way that the customer tells someone how GREAT it was.**

The Anspach Effort, Inc. is a successful, continuously evolving business whose focus concentrates on high-speed instrumentation for Neurosurgery, Neurotology, Otology, and Orthopaedics. We are committed to providing product quality, technology, and service that is best in class.



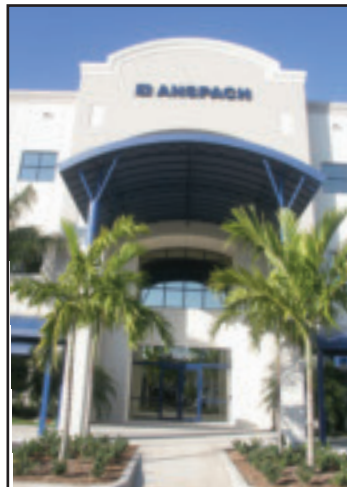
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### HANDPIECE KEY

XMax	<b>XM</b>
microMax Plus	<b>MM</b>
Black Max	<b>BM</b>
iMRI	<b>IMRI</b>
eMax 2/eMax 2 Plus	<b>EM</b>
e12	<b>E12</b>



### WARRANTY



The Anspach Effort, Inc. ("Anspach") warrants that this product is free of defects in workmanship and material for a period of two (2) years after the date of purchase of the product if used and maintained in accordance with manufacturer's instructions. Anspach reserves the right to invalidate this Warranty if a) the product is used with components not manufactured by Anspach, b) the product is used with components, accessories, or dissection tools reprocessed by other than Anspach, or c) if repairs to the product are not performed by Anspach. Anspach's obligation under this Warranty shall be limited to repair or replacement of the product as determined by Anspach, in its sole discretion. Dissection tools are supplied sterile and are for single-use only. Minimal Access Attachment Bearing Sleeves are disposable and therefore not subject to the repair or replacement provisions of the Warranty. Refer to the Operating Manual for the complete Warranty statement.

# Pneumatic High Performance Instrument System



The XMax® sets a new standard for the ultimate combination of high power, smooth operation, low noise level, and small size. This new level of performance provides the perfect pneumatic system to handle a complete range of surgical procedures ranging from power demanding applications to the most delicate dissection.

With a minimum operating speed of 80,000 rpm at 120 psi input pressure, the XMax system is the quietest pneumatic handpiece available, with 35% more power than Black Max and 50% more than microMax Plus.

## THE PNEUMATIC SYSTEM I (Otolaryngology)



XMAX	XMax Handpiece
SHORT	5.0 cm Short Attachment (2 each)
MEDIUM	8.0 cm Medium Attachment
AUTOLUBE-III	AutoLube/Foot Control Continuous Oiling System
XM-CASE	Sterilization Case & Tray
19-0005	Operating Manual
20-0015	Literature Binder
ACB	Attachment Cleaning Brushes



## THE PNEUMATIC SYSTEM II (Neurosurgery, Skull Base)



XMAX	XMax Handpiece
SHORT	5.0 cm Short Attachment (2 each)
MEDIUM	8.0 cm Medium Attachment
LONG	11.0 cm Long Attachment
CRANI-A <sup>1</sup>	6.5 cm Adult Craniotome Attachment
CRANI-P	6.5 cm Pediatric Craniotome Attachment
CRANI-L <sup>1</sup>	7.5 cm Large Craniotome Attachment
SHORT-HD <sup>1</sup>	5.0 cm Heavy Duty Short Attachment
AUTOLUBE-III	AutoLube/Foot Control Continuous Oiling System
XM-CASE	Sterilization Case & Tray
19-0005	Operating Manual
20-0015	Literature Binder
ACB	Attachment Cleaning Brushes



<sup>1</sup> 3.2 mm (1/8") cutter shaft; all other attachments are 2.4 mm (3/32") cutter shaft

# Pneumatic High Performance Instrument System

*BlackMax*<sup>®</sup>



The Black Max<sup>®</sup> operating speed is 80,000 rpm at 120 psi (8.3 bar), and offers smooth, controlled bone dissection and rapid dissection of biometals, bioplastics and cement. As with all of the Anspach high speed instruments, no tools are required to assemble cutting burrs or attachments.



## BLACKMAX-KIT-N (Neurosurgery)

**BM**

BLACKMAX-N	Black Max Handpiece, Swivel Angle
B-GREEN	Standard Craniotome
B-TURQ-X <sup>1</sup>	Pediatric Craniotome
B-GOLD	Large Craniotome
B-TURQUOISE <sup>1</sup>	5.9 cm Attachment
B-SILVER	6.1 cm Attachment
B-VIOLET	8.2 cm Attachment
B-TURQ-L <sup>1</sup>	12.6 cm Tapered Attachment
B-QD8 <sup>1,2</sup>	8 cm Angle Attachment
AUTOLUBE-III	AutoLube/Foot Control Continuous Oiling System
B-CASE-TRAY	Black Max Sterilization Tray with Case
19-0005	Operating Manual
20-0015	Literature Binder
ACB	Attachment Cleaning Brushes

<sup>1</sup> 2.4 mm (3/32") cutter shaft; all other attachments are 3.2 mm (1/8") cutter shaft

<sup>2</sup> May substitute with B-QD11 or B-QD14

## PNEUMATIC INSTRUMENT SYSTEM MOTORS

**XM MM BM**

XMAX	XMax Handpiece
MICROMAX-PLUS	microMax Plus Handpiece
BLACKMAX-N	Black Max Swivel/Angle Handpiece
BLACKMAX-O	Black Max Handpiece, Fixed/Straight
BLACKMAX-N-LP	Low Pressure Black Max Handpiece, Swivel Angle

# Pneumatic Accessories and Irrigation System

**XM MM BM**

## PNEUMATIC INSTRUMENT SYSTEM ACCESSORIES



\* Small sterilization case, holds handpiece only  
 \*\* For additional Extension Hoses, see Multiple Outlet Manifold and Hoses, page 24.

MOTOR-CASE*	Anspach Handpiece Case
XM-CASE	XMax Sterilization Case & Tray
MM-CASE-TRAY	microMax Plus Sterilization Case & Tray
B-CASE-TRAY	Black Max Sterilization Tray with Case
MM-ACCY-TRAY	Sterilization Insert Tray for SpeedReducer/ Sagittal Saw/Chuck Driver System
MM-CTR-RACK	Cutting Burr Rack
AUTOLUBE-III	Foot Control
AUTOLUBE-III-DISS	Foot Control, DISS Adapter
AUTOLUBE-III-20	Foot Control with 20' Hose
AL-III-DISS-20	Foot Control with 20' Hose, DISS Adapter
AL-III-30	Foot Control with 30' Hose
AL-III-DISS-30	Foot Control with 30' Hose, DISS Adapter
AUTOLUBE-III-MA7	Foot Control, MA7 Adapter
AUTOLUBE-III-IRR	Foot Control for Irrigation System
AUTOLUBE-III-FG	Foot Control with Foot Guard
AUTOLUBE-III-FG7	Foot Control with Foot Guard, MA7 Adapter
AUTOLUBE-III-NK	Foot Control with Nitrogen Keyed Adapter
AL-III-IRR-MA7	Foot Control for Irrigation System, MA7 Adapter
ACB	Attachment Cleaning Brushes
OIL-II	Instrument Oil w/1 Replacement Filter for AutoLube-II & -III
B-OIL	Instrument Oil w/1 Replacement Filter for AutoLube-I
FILTER-II	AutoLube-II and -III Filters (5/Pkg)
HOSE**	20-Foot Air Extension Hose
PG	Pistol Grip for Black Max
SCHRADER-F	Schrader Adapter

## POWERED IRRIGATION SYSTEM (IRRIGATE-KIT)

IRR-PUMP-II	Powered Irrigation Pump
AUTOLUBE-III-IRR	AutoLube/Foot Control for Irrigation System
IRRIGATE-TUBE	Sterile Tubing and Hoseclips for Irrigation System (1ea.)
IRRIGATE-TUBE-HF	Sterile High Flow Tubing and Hoseclips for Irrigation System (1ea.)
Choice of Irrigation Clip (see below)	(IRR-CLIP- ) for Attachment (1ea.)

In order to operate the Anspach Irrigation Pump, you must utilize an AUTOLUBE-III-IRR. Upgrades to the IRR version are available.



### IRRIGATION CLIPS

**XM MM EM**

IRR-CLIP-10	Irrigation Clip for SHORT Attachment
IRR-CLIP-20	Irrigation Clip for QD8 and QD8-S Angle Attachments
IRR-CLIP-30	Irrigation Clip for SHORT-HD Attachment
IRR-CLIP-40	Irrigation Clip for MEDIUM-HD and LONG-HD Attachment
IRR-CLIP-50	Irrigation Clip for MEDIUM, LONG, LONG-S, and LONG-01 Attachments
IRR-CLIP-60	Irrigation Clip for QD11, QD11-S, QD14, and QD14-S Angle Attachments
IRR-CLIP-70	Irrigation Clip for MIA16 Attachment

### IRRIGATION CLIPS

**BM**

IRR-CLIP-20	Irrigation Clip for B-QD8 and B-QD8-S Attachment
IRR-CLIP-30	Irrigation Clip for B-SILVER Attachment
IRR-CLIP-40	Irrigation Clip for B-BLUE-S and B-VIOLET Attachments
IRR-CLIP-50	Irrigation Clip for B-TURQ-L Attachment
IRR-CLIP-60	Irrigation Clip for B-QD11, B-QD11-S, B-QD14, and B-QD14-S Attachments
IRR-CLIP-70	Irrigation Clip for B-GREY-MIA16 and B-GREY-MIA20 Attachments

All irrigation clips are supplied sterile and are designed for single use only.



# Pneumatic High Performance Instrument System

**iMRI**



The iMRI Instrument System provides the performance and quality you have come to expect from Anspach in a configuration usable in an interoperative MRI.

The iMRI System includes the pneumatic iMRI Handpiece, iMRI Foot Control, three iMRI attachments and cutters, and iMRI Handpiece Oil.

The iMRI Instrument System utilizes non-magnetic materials in the handpiece, attachment, and cutting burr components that have been approved for use with field strengths up to 1.5 Tesla. It has an operating speed of 10,000-75,000 rpm.

The iMRI attachments and dissecting tools are specific to the iMRI Handpiece and are not interchangeable with Anspach XMax, microMax, eMax, or Black Max attachments, dissecting tools, or AutoLube.

## iMRI SYSTEM MOTORS

**iMRI**

IMRI-MOTOR iMRI Handpiece

## iMRI SYSTEM ACCESSORIES

**iMRI**

IMRI-FOOT-CTRL iMRI Air Control  
 IMRI-OIL iMRI Synthetic Oil

## Intraoperative Magnetic Resonance Imaging XMax Handpiece

## iMRI Attachments



### iMRI Short Attachment **iMRI**

IMRI-S-4B 4 mm Fluted Ball  
 IMRI-S-1R 1.4 mm x 12.8 mm Fluted Router  
 IMRI-S-1004TD 1.0 mm x 4.0 mm Twist Drill with Depth Stop



### iMRI Short Heavy Duty Attachment **iMRI**

IMRI-SHD-6B 6 mm Fluted Ball  
 IMRI-SHD-6R 1.12 mm x 6.35 mm Fluted Router



### iMRI Adult Craniotome **iMRI**

IMRI-A-CRN 1.85 mm x 16 mm Fluted Router

# Electric High Performance Instrument System

*eMax 2 plus*



The eMax 2 Plus operates at speeds up to 80,000 rpm, and with its increased power and active cooling, it can be used for craniotomies and other demanding applications with no uncomfortable heating of the handpiece. The angled swivel elbow provides balance and flexibility, while the variable speed hand control provides an option to foot controlled operation. The console display affords high visibility of control settings for speed,

direction, and irrigation flow rate, and effortless selection between two handpiece and foot pedal connections.

The advanced design of the eMax 2 Plus provides a small, light-weight handpiece, an integrated cooling system, advanced control circuitry, and the versatility provided by a wide range of attachments and accessories to meet the needs of both surgeon and staff.

## THE EMAX 2 PLUS SYSTEM

EMAX2PLUS	eMax 2 Plus Handpiece
SC2100	System Console with Irrigation
EPLUS-FP	Foot Control for SC2100
SHORT	5.0 cm Short Attachment (2 each)
MEDIUM	8.0 cm Medium Attachment
LONG	11.0 cm Long Attachment
CRANI-A	6.5 cm Adult Craniotome Attachment
CRANI-P	6.5 cm Pediatric Craniotome Attachment
CRANI-L	7.5 cm Large Craniotome Attachment
SHORT-HD	5.0 cm Heavy Duty Short Attachment
EMAX2-TRAY	Sterilization Case & Tray
ACB	Attachment Cleaning Brushes
19-0005	Operating Manual
20-0015	Literature Binder



## EMAX 2 PLUS INSTRUMENT SYSTEM ACCESSORIES

**EM**

MOTOR-CASE	Anspach Handpiece Case
EMAX2-HC	Hand Control
EMAX2-FP	Foot Control for SC2000
EPLUS-FP	Foot Control for SC2100
EMAX2-FP-NS	Foot Control for SC2000, no switches
EPLUS-FP-NS	Foot Control for SC2100, no switches
EMAX2-TRAY	Sterilization Case & Tray
SC-CART	Cart (45"h x 43"d x 21"w)
MM-CTR-RACK	Cutting Burr Rack
ACB	Attachment Cleaning Brushes

See Page 3 for irrigation accessories.



# Small Bone High Performance Instrument System

e12



The e12 Electric Instrument System is designed specifically to meet the demands of surgical applications requiring a low speed instrument at a high performance level.

The e12 is pictured with the SA-JACOBS attachment.

The e12 combines the advantages of an electric handpiece system with an optimum balance of power, smooth operation, and ergonomic comfort. All electric system consoles except the SC1000 provide power to the e12 for variable speed operation up to 12,000 rpm with your choice of either foot or hand control. The e12 quick disconnect mechanism provides simple exchange of all Anspach microSaw and Chuck systems resulting in a complete range of attachments and tools for all of your small bone procedures.

For additional attachments, see microSaws, page 20.

## E12 INSTRUMENT SYSTEM ACCESSORIES E12

E12	e12 Electric Handpiece
E12-HC	e12 Hand Control
SC2100	System Console with Irrigation
EPLUS-FP	Foot Control for SC2100
SC-CART	Cart
O-SAW	Oscillating microSaw Attachment
R-SAW	Reciprocating microSaw Attachment
S-SAW	Sagittal microSaw Attachment



O-SAW Oscillating microSaw Attachment



R-SAW Reciprocating microSaw Attachment



S-SAW Sagittal microSaw Attachment

## Small Attachments: J-Latch and Jacobs Chuck

The J-Latch and Jacobs Chuck attachments permit the use of a broad range of various cutting burs and twist drills. The J-Latch attachment allows for the use of drills with conventional J-Latch geometry, and the Jacobs Chuck accommodates a shank diameter up to 4 mm.

The Drivers on page 20 provide direct connection of the Small Attachments to all Anspach pneumatic and electric motor systems.



SA-JLATCH

Small Attachment, J-Latch E12



SA-JACOBS

Small Attachment, Jacobs Chuck E12



# Anspach Standard Attachments and Cutting Burrs



## Straight Attachments



### SHORT

### 5cm Short Attachment

S-1B	1 mm Fluted Ball	extended	S-2DC	2 mm Coarse Diamond Ball	extended
S-1SB	1 mm Fluted Ball	standard	S-2SDC	2 mm Coarse Diamond Ball	standard
S-15B	1.5 mm Fluted Ball	extended	S-2SDCT	2 mm Coarse Diamond Ball, Tapered	standard
S-15SB	1.5 mm Fluted Ball	standard	S-25DC	2.5 mm Coarse Diamond Ball	extended
S-2B	2 mm Fluted Ball	extended	S-25SDC	2.5 mm Coarse Diamond Ball	standard
S-2SB	2 mm Fluted Ball	standard	S-3DC	3 mm Coarse Diamond Ball	extended
S-2SBT	2 mm Fluted Ball, Tapered	standard	S-3SDC	3 mm Coarse Diamond Ball	standard
S-25B	2.5 mm Fluted Ball	extended	S-3SDCT	3 mm Coarse Diamond Ball, Tapered	standard
S-25SB	2.5 mm Fluted Ball	standard	S-3SDC-50	3 mm Coarse Diamond Ball, 50/60 Grit	standard
S-3B	3 mm Fluted Ball	extended	S-35DC	3.5 mm Coarse Diamond Ball	extended
S-3SB	3 mm Fluted Ball	standard	S-4DC	4 mm Coarse Diamond Ball	
S-3SBT	3 mm Fluted Ball, Tapered	standard	S-5DC	5 mm Coarse Diamond Ball	
S-35B	3.5 mm Fluted Ball	extended	S-5DC-40	5 mm Coarse Diamond Ball, 40/60 Grit	
S-35SB	3.5 mm Fluted Ball	standard	S-6DC	6 mm Coarse Diamond Ball	
S-4B	4 mm Fluted Ball		S-8DC	8 mm Coarse Diamond Ball	
S-4BT	4 mm Fluted Ball, Tapered		S-4DX	4 mm Extra Coarse Diamond Ball	
S-5B	5 mm Fluted Ball		S-5DX	5 mm Extra Coarse Diamond Ball	
S-5B-12F	5 mm Fluted Ball, 12 Flutes		S-6DX	6 mm Extra Coarse Diamond Ball	
S-6B	6 mm Fluted Ball		S-1R	1.4 mm x 12.8 mm Fluted Router	
S-7B	7 mm Fluted Ball		S-6R	1.12 mm x 6.35 mm Fluted Router	
S-8B	8 mm Fluted Ball		S-4OV	4 mm x 8 mm Fluted Oval	
S-9B	9 mm Fluted Ball		S-8N-18	1.8 mm Fluted Matchstick	
S-05D	0.5 mm Diamond Ball	extended	S-8N	2.3 mm Fluted Matchstick	
S-06SD	0.6 mm Diamond Ball	standard	S-8N-L	2.3 mm Fluted Matchstick, extends 22 mm	
S-08SD	0.8 mm Diamond Ball	standard	S-8NS	3 mm Fluted Matchstick	
S-1D	1 mm Diamond Ball	extended	S-8NS-M	3 mm Fluted Matchstick, extends 8.9 mm, Less Aggressive	
S-1SD	1 mm Diamond Ball	standard	S-8ND	2.5 mm Diamond Matchstick	
S-12D	1.2 mm Diamond Ball	extended	S-8NSD	3.2 mm Diamond Matchstick	
S-15D	1.5 mm Diamond Ball	extended	S-5AC	5 mm Fluted Acorn	
S-15SD	1.5 mm Diamond Ball	standard	S-6AC	6 mm Fluted Acorn	
S-2D	2 mm Diamond Ball	extended	S-9AC	9.2 mm Fluted Acorn	
S-2SD	2 mm Diamond Ball	standard	S-1203TD	1.2 mm x 3 mm Twist Drill	
S-2SD-120	2 mm Diamond Ball, 120/140 Grit	standard	S-1254TD	Twist Drill for 1.25 mm x 4 mm Screw	
S-25D	2.5 mm Diamond Ball	extended	S-1504TD	Twist Drill for 1.5 mm x 4 mm Screw	
S-25SD	2.5 mm Diamond Ball	standard	S-1506TD	Twist Drill for 1.5 mm x 6 mm Screw	
S-3D	3 mm Diamond Ball	extended	S-1506TD-M	1.5 mm x 6 mm Fluted Twist Drill	
S-3SD	3 mm Diamond Ball	standard	S-1510TD	1.55 mm x 10 mm Fluted Twist Drill	
S-3SD-100	3 mm Diamond Ball, 100/120 Grit	standard	S-2004TD	Twist Drill for 2.0 mm x 4 mm Screw	
S-35D	3.5 mm Diamond Ball	extended	S-2006TD	Twist Drill for 2.0 mm x 6 mm Screw	
S-35SD	3.5mm Diamond Ball	standard	S-2433TD	2.4 mm x 3.3 mm Twist Drill	
S-4D	4 mm Diamond Ball		S-6P	6 mm x 9 mm Fluted Pear	
S-4D-100	4 mm Diamond Ball, 100/120 Grit		S-6IP	6 mm x 11.8 mm Fluted Pear, Inverted	
S-4D-L	4 mm Diamond Ball, extends 27mm		S-7IP	7 mm x 13.1 mm Fluted Pear, Inverted	
S-5D	5 mm Diamond Ball		S-6PD	6 mm x 9 mm Diamond Pear	
S-5D-100	5 mm Diamond Ball, 100/120 Grit		S-68DRMDC	6.8 mm x 10.6 mm Coarse Diamond Drum	
S-6D	6 mm Diamond Ball		S-68DRMDX	6.8 mm x 10.6 mm Extra Coarse Diamond Drum	
S-1DC	1 mm Coarse Diamond Ball	extended			
S-1SDC	1 mm Coarse Diamond Ball	standard			
S-15DC	1.5 mm Coarse Diamond Ball	extended			
S-15SDC	1.5 mm Coarse Diamond Ball	standard			

Standard length cutting burrs extend approximately 16 mm from the distal end of the attachment. Extended length cutting burrs extend approximately 27 mm from the distal end of the attachment.

# Anspach Standard Attachments and Cutting Burrs



## Carbide Dissection Tools for the SHORT Attachment

S-1SB-C	1 mm Carbide Fluted Ball	standard	S-7B-C	7 mm Carbide Fluted Ball	standard
S-2SB-C	2 mm Carbide Fluted Ball	standard	S-1B-C	1 mm Carbide Fluted Ball	extended
S-3SB-C	3 mm Carbide Fluted Ball	standard	S-2B-C	2 mm Carbide Fluted Ball	extended
S-4B-C	4 mm Carbide Fluted Ball	standard	S-3B-C	3 mm Carbide Fluted Ball	extended
S-5B-C	5 mm Carbide Fluted Ball	standard	S-4BL-C	4 mm Carbide Fluted Ball	extended
S-6B-C	6 mm Carbide Fluted Ball	standard	S-15DRMC	1.5 mm x 7.5 mm Cylindrical Carbide Drum	



## MEDIUM

## 8 cm Medium Attachment

M-1B	1 mm Fluted Ball	extended	M-1SDC	1 mm Coarse Diamond Ball	standard
M-1SB	1 mm Fluted Ball	standard	M-15SDC	1.5 mm Coarse Diamond Ball	standard
M-2B	2 mm Fluted Ball	extended	M-2DC	2 mm Coarse Diamond Ball	extended
M-2SB	2 mm Fluted Ball	standard	M-2SDC	2 mm Coarse Diamond Ball	standard
M-3B	3 mm Fluted Ball	extended	M-25SDC	2.5 mm Coarse Diamond Ball	standard
M-3SB	3 mm Fluted Ball	standard	M-3DC	3 mm Coarse Diamond Ball	extended
M-3SB-2	3 mm Fluted Ball, 2 mm Shaft Exposure		M-3DC-2	3 mm Coarse Diamond Ball, 2 mm Shaft Exposure	
M-4B	4 mm Fluted Ball		M-3SDC	3 mm Coarse Diamond Ball	standard
M-5B	5 mm Fluted Ball		M-35SDC	3.5 mm Coarse Diamond Ball	standard
M-5B-2	5 mm Fluted Ball, 2 mm Shaft Exposure		M-4DC	4 mm Coarse Diamond Ball	
M-6B	6 mm Fluted Ball		M-5DC	5 mm Coarse Diamond Ball	
M-7B	7 mm Fluted Ball		M-6DC	6 mm Coarse Diamond Ball	
M-05D	0.5 mm Diamond Ball	extended	M-6DC-2	6 mm Coarse Diamond Ball, 2 mm Shaft Exposure	
M-05SD	0.5 mm Diamond Ball	standard	M-4DX	4 mm Extra Coarse Diamond Ball	
M-1D	1 mm Diamond Ball	extended	M-6DX	6 mm Extra Coarse Diamond Ball	
M-1SD	1 mm Diamond Ball	standard	M-1R	1.2 mm x 12.8 mm Fluted Router	
M-15D	1.5 mm Diamond Ball	extended	M-4OV	4 mm x 8 mm Fluted Oval	
M-15SD	1.5 mm Diamond Ball	standard	M-5OV	5 mm x 10 mm Fluted Oval	
M-2D	2 mm Diamond Ball	extended	M-4FD	4 mm x 10 mm Diamond Flame	
M-2SD	2 mm Diamond Ball	standard	M-8N	2.3 mm Fluted Matchstick	
M-25SD	2.5 mm Diamond Ball	standard	M-8NS	3 mm Fluted Matchstick	
M-3D	3 mm Diamond Ball	extended	M-8NS-M	3 mm Fluted Matchstick, Less Aggressive	
M-3SD	3 mm Diamond Ball	standard	M-8ND	2.5 mm Diamond Matchstick	
M-35SD	3.5 mm Diamond Ball	standard	M-8NSD	3.2 mm Diamond Matchstick	
M-4D	4 mm Diamond Ball		M-5AC	5 mm Fluted Acorn	
M-5D	5 mm Diamond Ball		M-7AC	7 mm Fluted Acorn	
M-6D	6 mm Diamond Ball		M-6P	6 mm x 9 mm Fluted Pear	
M-1DC	1 mm Coarse Diamond Ball	extended	M-5BA-20	5 mm x 20 mm Fluted Barrel	

Standard length cutting burrs extend approximately 16 mm from the distal end of the attachment.  
 Extended length cutting burrs extend approximately 27 mm from the distal end of the attachment.



## LONG-S

10.5 cm Long Attachment

## LONG

11 cm Long Attachment

L-1SB	1 mm Fluted Ball	standard	L-5OV	5 mm x 10 mm Fluted Oval
L-2SB	2 mm Fluted Ball	standard	L-8N	2.3 mm Fluted Matchstick
L-3SB	3 mm Fluted Ball	standard	L-8NS	3 mm Fluted Matchstick
L-4B	4 mm Fluted Ball		L-8NS-M	3 mm Fluted Matchstick, Less Aggressive
L-5B	5 mm Fluted Ball		L-8ND	2.5 mm Diamond Matchstick
L-6B	6 mm Fluted Ball		L-8NSD	3.2 mm Diamond Matchstick
L-7B	7 mm Fluted Ball		L-8NSDC	3.2 mm Coarse Diamond Matchstick
L-9B	9 mm Fluted Ball		L-5AC	5 mm Fluted Acorn
L-1SD	1 mm Diamond Ball	standard	L-7AC	7 mm Fluted Acorn
L-2SD	2 mm Diamond Ball	standard	L-4BA-S	4 mm x 8 mm Fluted Barrel
L-3SD	3 mm Diamond Ball	standard	L-5BA	5 mm x 10 mm Fluted Barrel
L-4D	4 mm Diamond Ball		L-35DR	3.5 mm x 8.4 mm Fluted Drum
L-5D	5 mm Diamond Ball		L-4DRM	4 mm x 8.9 mm Fluted Drum, Side Cut Only
L-6D	6 mm Diamond Ball		L-5DRM	5 mm x 8.4 mm Fluted Drum
L-3SDC	3 mm Coarse Diamond Ball	standard	L-5DRC	5 mm x 14 mm Fluted Drum, Side Cut Only
L-4DC	4 mm Coarse Diamond Ball		L-6DRC	6 mm x 14 mm Fluted Drum, Side Cut Only
L-5DC	5 mm Coarse Diamond Ball		L-68DRMDX	6.8 mm x 10.6 mm Extra Coarse Diamond Drum
L-6DC	6 mm Coarse Diamond Ball		L-7DRC	7 mm x 14 mm Fluted Drum, Side Cut Only
L-4DX	4 mm Extra Coarse Diamond Ball		L-7DRC-11	7 mm x 11 mm Fluted Drum
L-5DX	5 mm Extra Coarse Diamond Ball		L-8DRC	8 mm x 14 mm Fluted Drum, Side Cut Only
L-6DX	6 mm Extra Coarse Diamond Ball		L-8DRC-11	8 mm x 11 mm Fluted Drum
L-1R	1.2 mm x 12.8 mm Fluted Router		L-9DRC	9 mm x 14 mm Fluted Drum, Side Cut Only
L-4OV	4 mm x 8 mm Fluted Oval		L-10DRC	10 mm x 14 mm Fluted Drum, Side Cut Only



## MIA16

16 cm Minimally Invasive Attachment

MIA16-3SB	3 mm Fluted Ball	standard	MIA16-4DC	4 mm Coarse Diamond Ball
MIA16-4B	4 mm Fluted Ball		MIA16-6DC	6 mm Coarse Diamond Ball
MIA16-6B	6 mm Fluted Ball		MIA16-6DX	6 mm Extra Coarse Diamond Ball
MIA16-4D	4 mm Diamond Ball		MIA16-8NS	3 mm Fluted Matchstick

# Anspach Standard Attachments and Cutting Burrs



## Contra and Right Angle Attachments



**ORANGE-45**  
Multiple Angle

45° Contra Angle Attachment



**ORANGE-90**

90° Right Angle Attachment

ORNG-35	2.3 mm Fluted Ball
ORNG-36	2.9 mm Fluted Ball
ORNG-1	11.1 mm Fluted Router
ORNG-8-18	1.8 mm Fluted Matchstick

ORNG-33	10.5 mm Small Bone Burr
ORNG-1275	1.2 mm x 7.5 mm Twist Drill
ORNG-37	1.8 mm Fluted Drum

## Craniotomes



**CRANI-P** Pediatric Craniotome

P-CRN-M	1.3 mm x 12.8 mm Fluted Router
P-CRN	1.4 mm x 12.8 mm Fluted Router



**CRANI-L** Large Craniotome

*Also available as a rotating attachment (CRANI-L-R)*

L-CRN	2.5 mm x 25.4 mm Fluted Router
L-CRN-S	2.47 mm x 30.3 mm Spiral Router



**CRANI-A** Adult Craniotome

A-CRN	1.85 mm x 16 mm Fluted Router
A-CRN-M	2 mm x 15.6 mm Fluted Router
A-CRN-S	2.15 mm x 22 mm Spiral Router



**CRANI-A-R** Rotating Adult Craniotome

A-CRN	1.85 mm x 16 mm Fluted Router
A-CRN-M	2 mm x 15.6 mm Fluted Router
A-CRN-S	2.15 mm x 22 mm Spiral Router

## Specialty Attachments



**ADG** 7.2 cm Adjustable Drill Guide

*The ADG adjusts 3-6 mm increments.*

ADG-10	1.0 mm Twist Drill for 1.25 mm Screw
ADG-11	1.1 mm Twist Drill for 1.50 mm Screw
ADG-13	1.3 mm Twist Drill for 1.70 mm Screw
ADG-155	1.5 mm Twist Drill for 2.0 mm Screw



**CDA** 6.8 cm Controlled Depth Attachment

*The CDA adjusts 1-4 mm increments.*

CDA-1R	1.2 mm x 12.8 mm Fluted Router
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## Heavy Duty Attachments

The Heavy Duty Short and Medium Attachments are primarily used for cutting metal. Surgeons find the SHORT-HD to be an exceptional attachment to create pilot holes. The procedure begins with a craniotome attachment, and then it is replaced with the HD attachment, using the same cutter to save time and money.



### SHORT-HD 5 cm Heavy Duty Short Attachment

The SHORT-HD attachment is comparable in length to the Black Max B-SILVER.

SHD-5B	5 mm Fluted Ball
SHD-6B	6 mm Fluted Ball
SHD-7B	7 mm Fluted Ball
SHD-6DX	6 mm Extra Coarse Diamond Ball
SHD-6R	1.12 mm x 6.35 mm Fluted Router
SHD-25R	2.15 mm x 25.4 mm Fluted Router
SHD-3-10	1.93 mm Suture Pass Drill/1.17 Eye
SHD-8NS	3 mm Fluted Matchstick
SHD-6AC	6 mm Fluted Acorn
SHD-75AC	7.5 mm Fluted Acorn
SHD-9AC	9.2 mm Fluted Acorn
SHD-17DD	17 mm Diamond Disc
SHD-25DD	25.4 mm Diamond Disc
SHD-1504TD	1.15 mm Twist Drill for 1.5 mm x 4 mm Screw
SHD-DS-A	1.7 mm x 11.9 mm Twist Drill with Depth Stop, Aesculap®
SHD-325DS	3.2 mm x 5 mm Twist Drill with Depth Stop
SHD-4892DS	4.8 mm x 9.2 mm Twist Drill with Depth Stop

With the addition of the LONG-HD and XL-HD, surgeons now have the option of longer length heavy duty attachments for spinal and orthopaedic procedures.



### MEDIUM-HD 8 cm Heavy Duty Medium Attachment

The MEDIUM-HD attachment is comparable in length to the Black Max B-VIOLET.

MHD-6B	6 mm Fluted Ball
MHD-25R	2.15 mm x 25.4 mm Fluted Router
MHD-8NS	3 mm Fluted Matchstick
MHD-8NS-M	3 mm Fluted Matchstick, Less Aggressive
MHD-6AC	6 mm Fluted Acorn
MHD-62DRM	6.2 mm x 4.8 mm Fluted Drum, Side Cut Only
MHD-3DRMC	3 mm x 9.5 mm Fluted Carbide Drum
MHD-15C	3.2 mm Fluted Carbide Side Cutter
MHD-95DRM	9.5 mm Fluted Drum
MHD-17DD	17 mm Diamond Disc
MHD-25DD	25.4 mm Diamond Disc
MHD-16CT	6.7 mm Coring Tool
MHD-19CT	9.9 mm Coring Tool
MHD-98B	9.5 mm Boring Tool (Use with XMax/eMax 2 Plus Only)
MHD-97B	12.6 mm Boring Tool (Use with XMax/eMax 2 Plus Only)
MHD-126B-3F	12.6 mm x 10.4 mm Boring Tool, 3 flutes (Use with XMax/eMax 2 Plus Only)



### LONG-HD

### 12.4 cm Heavy Duty Long Attachment

The LONG-HD attachment is comparable in length to the Black Max B-BLUE-S.

LHD-3SB	3 mm Fluted Ball	standard
LHD-4B	4 mm Fluted Ball	
LHD-5B	5 mm Fluted Ball	
LHD-6B	6 mm Fluted Ball	
LHD-7B	7 mm Fluted Ball	
LHD-8NS	3 mm Fluted Matchstick	
LHD-8NS-M	3 mm Fluted Matchstick, Less Aggressive	
LHD-6AC	6 mm Fluted Acorn	
LHD-47-5	3.2 mm Fluted Bell	
LHD-5DRM	5 mm x 8.4 mm Fluted Drum	
LHD-5DRM-L	5 mm x 16.2 mm Fluted Drum	
LHD-64DRM	6.4 mm Fluted Drum	
LHD-95DRM	9.5 mm Fluted Drum	
LHD-LS9-35	3.5 mm x 19.8 mm Fluted Drum	
LHD-LS9-5	4.7 mm x 20 mm Fluted Drum	
LHD-LS9-76	7.6 mm x 28.6 mm Fluted Drum	



### XL-HD

### 20.2 cm Heavy Duty Extra Long Attachment

The XL-HD is comparable in length to the Black Max B-BLACK.

XLHD-3SB	3 mm Fluted Ball	Standard
XLHD-4B	4 mm Fluted Ball	
XLHD-5B	5 mm Fluted Ball	
XLHD-6B	6 mm Fluted Ball	
XLHD-7B	7 mm Fluted Ball	
XLHD-9B	9 mm Fluted Ball	
XLHD-55DC	5.5 mm Coarse Diamond Ball	
XLHD-25R	2.15 mm x 25.4 mm Fluted Router	
XLHD-8NS	3 mm Fluted Matchstick	
XLHD-8NS-M	3 mm Fluted Matchstick, Less Aggressive	
XLHD-6AC	6 mm Fluted Acorn	
XLHD-75AC	7.5 mm Fluted Acorn	
XLHD-51C	6.4 mm Fluted Cylindrical Carbide	
XLHD-95DRM	9.5 mm Fluted Drum	

# Black Max Standard Attachments and Cutting Burrs



## Straight Attachments



### B-SILVER

### 6.1 cm Attachment

SIL-3	3 mm Fluted Ball	SIL-8-18	1.8 mm Fluted Matchstick
SIL-4	4 mm Fluted Ball	SIL-8	3 mm Fluted Matchstick
SIL-5	5 mm Fluted Ball	SIL-8-M	3 mm Fluted Matchstick, Less Aggressive
SIL-6	6 mm Fluted Ball	SIL-8D-32	3.2 mm Diamond Matchstick
SIL-7	7 mm Fluted Ball	SIL-39	5 mm Fluted Acorn
SIL-7-9	9 mm Fluted Ball	SIL-24	6 mm Fluted Acorn
SIL-17-1	1 mm Diamond Ball	SIL-32	7.5 mm Fluted Acorn
SIL-17-2	2 mm Diamond Ball	SIL-38	9.2 mm Fluted Acorn
SIL-17-3	3 mm Diamond Ball	SIL-1510	1.55 mm x 10 mm Twist Drill
SIL-17-4	4 mm Diamond Ball	SIL-464-4	Twist Drill for 2.0 mm x 4 mm Screw
SIL-17-5	5 mm Diamond Ball	SIL-466-6	Twist Drill for 2.0 mm x 6 mm Screw
SIL-17-6	6 mm Diamond Ball	SIL-DS-A	1.7 mm x 11.9 mm Twist Drill w/Depth Stop, Aesculap®
SIL-17-1C	1 mm Coarse Diamond Ball	SIL-47	6.2 mm Fluted Bell, Side Cut Only
SIL-17-2C	2 mm Coarse Diamond Ball	SIL-9	6.4 mm Fluted Drum
SIL-17-3C	3 mm Coarse Diamond Ball	SIL-10	9.5 mm Fluted Drum
SIL-17-4C	4 mm Coarse Diamond Ball	SIL-11	12.7 mm Fluted Drum
SIL-17-5C	5 mm Coarse Diamond Ball	SIL-14-17	17 mm Diamond Disc
SIL-17-6C	6 mm Coarse Diamond Ball	SIL-14	25.4 mm Diamond Disc
SIL-17-4CX	4 mm Extra Coarse Diamond Ball	SIL-15	3.2 mm Carbide Fluted Side Cutter
SIL-17-5CX	5 mm Extra Coarse Diamond Ball	SIL-16-5	5.56 mm Boring Tool
SIL-17-6CX	6 mm Extra Coarse Diamond Ball	SIL-16	6.7 mm Coring Tool
SIL-0	1.12 mm x 6.35 mm Fluted Router	SIL-16XL2	6.7 mm x 45 mm Coring Tool
SIL-1-3	1.42 mm x 6.4 mm Fluted Router	SIL-18	8.48 mm Boring Tool
SIL-1	1.85 mm x 16 mm Fluted Router	SIL-19	9.9 mm Coring Tool
SIL-2	2.15 mm x 25.4 mm Fluted Router	SIL-20	10.06 mm Boring Tool
SIL-2XL	3.05 mm x 38.2 mm Fluted Router	SIL-21	11.5 mm Coring Tool
SIL-1S	2.15 mm x 22 mm Fluted Spiral Router	SIL-22	13.23 mm Boring Tool
SIL-2S	2.47 mm x 30.2 mm Fluted Spiral Router	SIL-23	14.7 mm Coring Tool
SIL-3-10	1.93 mm Suture Pass Drill/1.17eye		



## B-TURQUOISE

## 5.9 cm Attachment

TURQ-3	3 mm Fluted Ball	TURQ-17-5CX	5 mm Extra Coarse Diamond Ball
TURQ-4	4 mm Fluted Ball	TURQ-17-6CX	6 mm Extra Coarse Diamond Ball
TURQ-5	5 mm Fluted Ball	TURQ-0-1	.95 mm x 12.8 mm Fluted Router
TURQ-6	6 mm Fluted Ball	TURQ-1	1.4 mm x 12.8 mm Fluted Router
TURQ-7	7 mm Fluted Ball	TURQ-8-18	1.8 mm Fluted Matchstick
TURQ-17-2	2 mm Diamond Ball	TURQ-8-23	2.3 mm Fluted Matchstick
TURQ-17-3	3 mm Diamond Ball	TURQ-8	3 mm Fluted Matchstick
TURQ-17-4	4 mm Diamond Ball	TURQ-8-M	3 mm Fluted Matchstick, Less Aggressive
TURQ-17-5	5 mm Diamond Ball	TURQ-8D-25	2.5 mm Diamond Matchstick
TURQ-17-6	6 mm Diamond Ball	TURQ-404-4	Twist Drill for 1.25 mm x 4 mm Screw
TURQ-17-2C	2 mm Coarse Diamond Ball	TURQ-406-6	Twist Drill for 1.25 mm x 6 mm Screw
TURQ-17-5C	5 mm Coarse Diamond Ball	TURQ-434-4	Twist Drill for 1.5 mm x 4 mm Screw
TURQ-17-4CX	4 mm Extra Coarse Diamond Ball	TURQ-436-6	Twist Drill for 1.5 mm x 6 mm Screw



## B-VIOLET

## 8.2 cm Attachment

VIO-7-2	2 mm Fluted Ball	VIO-40-4	4 mm x 8 mm Fluted Oval
VIO-3	3 mm Fluted Ball	VIO-40-5	5 mm x 10 mm Fluted Oval
VIO-4	4 mm Fluted Ball	VIO-40-55	5.5 mm x 10 mm Fluted Oval
VIO-5	5 mm Fluted Ball	VIO-87-5	5 mm x 10 mm Fluted Barrel
VIO-6	6 mm Fluted Ball	VIO-87-8	8 mm x 12.5 mm Fluted Barrel
VIO-7	7 mm Fluted Ball	VIO-8-18	1.8 mm Fluted Matchstick
VIO-7-9	9 mm Fluted Ball	VIO-8	3 mm Fluted Matchstick
VIO-17-1	1 mm Diamond Ball	VIO-8-M	3 mm Fluted Matchstick, Less Aggressive
VIO-17-2	2 mm Diamond Ball	VIO-8D-32	3.2 mm Diamond Matchstick
VIO-17-3	3 mm Diamond Ball	VIO-39	5 mm Fluted Acorn
VIO-17-4	4 mm Diamond Ball	VIO-24	6 mm Fluted Acorn
VIO-17-5	5 mm Diamond Ball	VIO-32	7.5 mm Fluted Acorn
VIO-17-6	6 mm Diamond Ball	VIO-38	9.2 mm Fluted Acorn
VIO-17-3C	3 mm Coarse Diamond Ball	VIO-9-5	5.6 mm Fluted Drum
VIO-17-4C	4 mm Coarse Diamond Ball	VIO-9	6.4 mm Fluted Drum
VIO-17-5C	5 mm Coarse Diamond Ball	VIO-10	9.5 mm Fluted Drum
VIO-17-6C	6 mm Coarse Diamond Ball	VIO-98B	9.5 mm Boring Tool
VIO-17-4CX	4 mm Extra Coarse Diamond Ball	VIO-98C	10.8 mm Coring Tool
VIO-17-5CX	5 mm Extra Coarse Diamond Ball	VIO-97B	12.6 mm Boring Tool
VIO-17-6CX	6 mm Extra Coarse Diamond Ball	VIO-97C	13.5 mm Coring Tool
VIO-1	1.85 mm x 16 mm Fluted Router	VIO-99C	16.8 mm Coring Tool
VIO-2	2.15 mm x 25.4 mm Fluted Router	VIO-14	25.4 mm Diamond Disc
VIO-2XL	3.05 mm x 38.2 mm Fluted Router		

# Black Max Standard Attachments and Cutting Burrs

**BM**

## Straight Attachments



### B-BLUE-S

11.25 cm Attachment

BLU-3	3 mm Fluted Ball
BLU-4	4 mm Fluted Ball
BLU-5	5 mm Fluted Ball
BLU-6	6 mm Fluted Ball
BLU-7	7 mm Fluted Ball
BLU-7-9	9 mm Fluted Ball
BLU-17-1	1 mm Diamond Ball
BLU-17-2	2 mm Diamond Ball
BLU-17-3	3 mm Diamond Ball
BLU-17-4	4 mm Diamond Ball
BLU-17-5	5 mm Diamond Ball
BLU-17-6	6 mm Diamond Ball
BLU-1	1.85 mm x 16 mm Fluted Router
BLU-2XL	3.05 mm x 38.2 mm Fluted Router
BLU-2S-25	2.8 mm x 22 mm Fluted Spiral Router
BLU-40-55	5.5 mm x 10 mm Fluted Oval
BLU-8-18	1.8 mm Fluted Matchstick
BLU-8	3 mm Fluted Matchstick
BLU-8-M	3 mm Fluted Matchstick, Less Aggressive
BLU-8D-32	3.2 mm Diamond Matchstick
BLU-8D-32C	3.7 mm Coarse Diamond Matchstick

BLU-39	5 mm Fluted Acorn
BLU-24	6 mm Fluted Acorn
BLU-32	7.5 mm Fluted Acorn
BLU-38	9.2 mm Fluted Acorn
BLU-47	6.2 mm Fluted Bell, Side Cut Only
BLU-9-5	5.6 mm Fluted Drum
BLU-9-68	6 mm x 8 mm Fluted Drum
BLU-9	6.4 mm Fluted Drum
BLU-10	9.5 mm Fluted Drum
BLU-11	12.7 mm Fluted Drum
BLU-9DCX	6.8 mm x 10.6 mm Extra Coarse Diamond Drum
BLU-27	6.4 mm x 4.8 mm Fluted Drum, Side Cut Only
BLU-CS5	5 mm x 14 mm Fluted Drum, Side Cut Only
BLU-CS6	6 mm x 14 mm Fluted Drum, Side Cut Only
BLU-CS7	7 mm x 14 mm Fluted Drum, Side Cut Only
BLU-LS9-35	3.5 mm x 19.8 mm Fluted Drum
BLU-LS9-5	4.7 mm x 20 mm Fluted Drum
BLU-LS9-5E	4.7 mm x 20 mm Fluted Drum, Side Cut Only
BLU-14	25.4 mm Diamond Disc
BLU-51	6.4 mm Fluted Cylindrical Carbide



### B-TURQ-L

12.6 cm Tapered Attachment

TURQ-L3	3 mm Fluted Ball
TURQ-L4	4 mm Fluted Ball
TURQ-L5	5 mm Fluted Ball
TURQ-L6	6 mm Fluted Ball
TURQ-LS7	7 mm Fluted Ball, Extends 8.9 mm
TURQ-L17-1	1 mm Diamond Ball
TURQ-L17-2	2 mm Diamond Ball
TURQ-L17-3	3 mm Diamond Ball
TURQ-L17-4	4 mm Diamond Ball
TURQ-L17-5	5 mm Diamond Ball
TURQ-L17-6	6 mm Diamond Ball
TURQ-L17-1C	1 mm Coarse Diamond Ball
TURQ-L17-2C	2 mm Coarse Diamond Ball
TURQ-L17-3C	3 mm Coarse Diamond Ball
TURQ-L17-4C	4 mm Coarse Diamond Ball
TURQ-L17-5C	5 mm Coarse Diamond Ball
TURQ-L17-6C	6 mm Coarse Diamond Ball

TURQ-L17-75C	7.5 mm Coarse Diamond Ball
TURQ-L17-4CX	4 mm Extra Coarse Diamond Ball
TURQ-L17-5CX	5 mm Extra Coarse Diamond Ball
TURQ-L17-6CX	6 mm Extra Coarse Diamond Ball
TURQ-L17-7CX	7 mm Extra Coarse Diamond Ball
TURQ-L1	1.4 mm x 12.8 mm Fluted Router
TURQ-L40-4	4 mm x 8 mm Fluted Oval
TURQ-L40-5	5 mm x 10 mm Fluted Oval
TURQ-L8-18	1.8 mm Fluted Matchstick
TURQ-L8-23	2.3 mm Fluted Matchstick
TURQ-L8	3 mm Fluted Matchstick
TURQ-L8-L	3 mm Fluted Matchstick, Extends 20.8 mm
TURQ-L8-M	3 mm Fluted Matchstick, Less Aggressive
TURQ-L8D-25	2.5 mm Diamond Matchstick
TURQ-L8D-32L	3.2 mm Diamond Matchstick, Extends 28.5 mm
TURQ-L9-58	5 mm x 8.4 mm Fluted Drum





## B-BLACK

19 cm Attachment

BLA-3	3 mm Fluted Ball
BLA-4	4 mm Fluted Ball
BLA-5	5 mm Fluted Ball
BLA-6	6 mm Fluted Ball
BLA-7	7 mm Fluted Ball
BLA-7-9	9 mm Fluted Ball
BLA-1	1.85 mm x 16 mm Fluted Router
BLA-2	2.15 mm x 25.4 mm Fluted Router
BLA-8	3 mm Fluted Matchstick

BLA-24	6 mm Fluted Acorn
BLA-32	7.5 mm Fluted Acorn
BLA-38	9.2 mm Fluted Acorn
BLA-9	6.4 mm Fluted Drum
BLA-10	9.5 mm Fluted Drum
BLA-11	12.7 mm Fluted Drum
BLA-14	25.4 mm Diamond Disc
BLA-15	3.2 mm Fluted Carbide Side Cutter
BLA-51	6.4 mm Fluted Cylindrical Carbide



## B-RED

26.65 cm Attachment

RED-3	3 mm Fluted Ball
RED-4	4 mm Fluted Ball
RED-5	5 mm Fluted Ball
RED-6	6 mm Fluted Ball
RED-7	7 mm Fluted Ball
RED-7-9	9 mm Fluted Ball
RED-17-55C	5.5 mm Coarse Diamond Ball
RED-17-75C	7.5 mm Coarse Diamond Ball
RED-1	1.85 mm x 16 mm Fluted Router

RED-2	2.15 mm x 25.4 mm Fluted Router
RED-8	3 mm Fluted Matchstick
RED-24	6 mm Fluted Acorn
RED-32	7.5 mm Fluted Acorn
RED-38	9.2 mm Fluted Acorn
RED-9	6.4 mm Fluted Drum
RED-10	9.5 mm Fluted Drum
RED-11	12.7 mm Fluted Drum

## Minimally Invasive Attachments (MIA)



### B-GREY-MIA16

16 cm MIA

GREY-MIA16-3	3 mm Fluted Ball
GREY-MIA16-4	4 mm Fluted Ball
GREY-MIA16-17-2	2 mm Diamond Ball
GREY-MIA16-17-3	3 mm Diamond Ball
GREY-MIA16-17-4C	4 mm Coarse Diamond Ball
GREY-MIA16-8	3 mm Fluted Matchstick

### B-GREY-MIA20

20 cm MIA

GREY-MIA20-3	3 mm Fluted Ball
GREY-MIA20-4	4 mm Fluted Ball
GREY-MIA20-7	7 mm Fluted Ball
GREY-MIA20-7-9	9 mm Fluted Ball
GREY-MIA20-17-3	3 mm Diamond Ball
GREY-MIA20-17-4	4 mm Diamond Ball
GREY-MIA20-17-2C	2 mm Coarse Diamond Ball
GREY-MIA20-17-3C	3 mm Coarse Diamond Ball
GREY-MIA20-17-4C	4 mm Coarse Diamond Ball
GREY-MIA20-17-75C	7.5 mm Coarse Diamond Ball
GREY-MIA20-8	3 mm Fluted Matchstick

# Black Max Standard Attachments and Cutting Burrs

**BM**

## Craniotomes



**B-TURQ-X Pediatric Craniotome**

TURQ-1-M	1.3 mm x 12.8 mm Fluted Router
TURQ-1	1.4 mm x 12.8 mm Fluted Router



**B-GOLD Large Craniotome**

GOL-2S	2.47 mm x 30.3 mm Fluted Spiral Router
GOL-2	2.5 mm x 25.4 mm Fluted Router



**B-GREEN Standard Craniotome**

GRE-1	1.85 mm x 16 mm Fluted Router
GRE-1-M	2 mm x 15.6 mm Fluted Router
GRE-1S	2.15 mm x 22 mm Fluted Spiral Router



**B-GREEN-R Rotating Green Craniotome**

GRE-1	1.85 mm x 16 mm Fluted Router
GRE-1-M	2 mm x 15.6 mm Fluted Router
GRE-1S	2.15 mm x 22 mm Fluted Spiral Router

## Specialty Attachments



**B-GREY-ADG 8.7 cm Adjustable Drill Guide (ADG)**

GREY-471-25	1.0 mm Twist Drill for 1.25mm Screw
GREY-471-50	1.1 mm Twist Drill for 1.5mm Screw
GREY-471-70	1.3 mm Twist Drill for 1.7mm Screw
GREY-472-00	1.55 mm Twist Drill for 2.0mm Screw



**B-TURQ-CDA 7.7 cm Controlled Depth Attachment (CDA)**  
*Adjusts 1 mm-4 mm increments*

TURQ-1	1.4 mm x 12.8 mm Fluted Router
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## Micro Revision Attachments (MRA)



**B-MRA-S 9.4 cm Revision Attachment**

**B-MRA-M 16.5 cm Revision Attachment**

**B-MRA-L 22 cm Revision Attachment**

MRA-8S	2.3 mm x 4.5 mm Fluted Matchstick for B-MRA-S
MRA-8M	2.3 mm x 4.5 mm Fluted Matchstick for B-MRA-M
MRA-8L	2.3 mm x 4.5 mm Fluted Matchstick for B-MRA-L

## Contra and Right Angles



**B-ORANGE-45 45° Contra Angle Attachment**  
*Multiple Angle*

**B-ORANGE-90 90° Right Angle Attachment**

ORNG-35	2.3 mm Fluted Ball
ORNG-36	2.9 mm Fluted Ball
ORNG-1	11.1 mm Fluted Router
ORNG-8-18	1.8 mm Fluted Matchstick
ORNG-33	10.5 mm Small Bone Burr
ORNG-1275	1.2 mm x 7.5 mm Twist Drill
ORNG-37	1.8 mm Fluted Drum

# MA Attachments and Cutting Burrs

**XM MM BM EM**

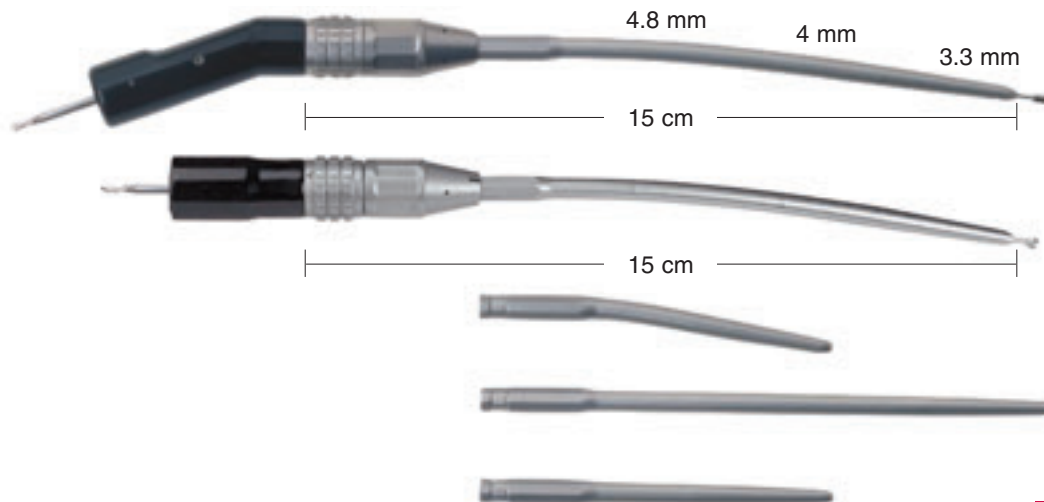
## Minimal Access Attachments

The Minimal Access Attachment sets a new standard for direct visualization of the cutting burr in surgical procedures with limited viewing access. The combination of the 20° angled driver and the most technically advanced bearing sleeve design available provides the surgeon with the versatility to address the most challenging minimal access dissections.

The curved drivers provide direct connection to all Anspach pneumatic and electric handpieces, and the straight driver

provides direct connection to all handpieces except Black Max. All of the drivers enable rapid exchange of bearing sleeves and cutting burrs through a unique quick-disconnect system.

Bearing sleeves are available in 10cm and 15cm lengths either straight or with a 10° curvature at the 4mm diameter. Additionally, the bearing sleeves can be indexed radially in eight positions and telescoped 3mm to offer the greatest flexibility for visualization during dissection.



**MA-D20**

**20° Angle Driver XM MM EM**

**MA-DRIVER**

**Minimal Access Straight Driver XM MM EM**

**MA-D20BM**

**20° Angle Driver BM**

**MA-15S**

**Bearing Sleeve, 15 cm Straight**

**MA-15C**

**Bearing Sleeve, 15 cm Curved**

MA15-2SB	2 mm Fluted Ball, 15 cm
MA15-3SB	3 mm Fluted Ball, 15 cm
MA15-15SD	1.5 mm Diamond Ball, 15 cm
MA15-2SD	2 mm Diamond Ball, 15 cm
MA15-3SD	3 mm Diamond Ball, 15 cm

MA15-4D	4 mm Diamond Ball, 15 cm
MA15-8N-18	1.8 mm Fluted Matchstick, 15 cm
MA15-8N	2.3 mm Fluted Matchstick, 15 cm
MA15-8NS	3 mm Fluted Matchstick, 15 cm
MA15-8NSDC	3 mm Coarse Diamond Matchstick, 15 cm

**MA-10S**

**Bearing Sleeve, 10 cm Straight**

**MA-10C**

**Bearing Sleeve, 10 cm Curved**

MA10-05SD	0.5 mm Diamond Ball, 10 cm
MA10-08SD	0.8 mm Diamond Ball, 10 cm
MA10-1SB	1 mm Fluted Ball, 10 cm
MA10-15SB	1.5 mm Fluted Ball, 10 cm
MA10-2SB	2 mm Fluted Ball, 10 cm
MA10-25SB	2.5 mm Fluted Ball, 10 cm
MA10-3SB	3 mm Fluted Ball, 10 cm

MA10-2SD	2 mm Diamond Ball, 10 cm
MA10-3SD	3 mm Diamond Ball, 10 cm
MA10-4D	4 mm Diamond Ball, 10 cm
MA10-8N-18	1.8 mm Fluted Matchstick, 10 cm
MA10-8N	2.3 mm Fluted Matchstick, 10 cm
MA10-8NS	3 mm Fluted Matchstick, 10 cm
MA10-8NSDC	3 mm Coarse Diamond Matchstick, 10 cm

# Angle Attachments and Cutting Burrs

**XM MM BM EM**

## Quick Disconnect (QD) Angle Attachments



**QD8-S**

**7.5 cm Angle Attachment XM MM EM**

**B-QD8-S**

**7.5 cm Angle Attachment BM**

**QD8**

**8 cm Angle Attachment XM MM EM**

**B-QD8**

**8 cm Angle Attachment BM**

QD8-05B	0.5 mm Fluted Ball	extended	QD8-25SDC	2.5 mm Coarse Diamond Ball
QD8-1SB	1 mm Fluted Ball		QD8-3SDC	3 mm Coarse Diamond Ball
QD8-15SB	1.5 mm Fluted Ball		QD8-35SDC	3.5 mm Coarse Diamond Ball
QD8-2SB	2 mm Fluted Ball		QD8-4DC	4 mm Coarse Diamond Ball
QD8-25SB	2.5 mm Fluted Ball		QD8-5DC	5 mm Coarse Diamond Ball
QD8-3SB	3 mm Fluted Ball		QD8-6DC	6 mm Coarse Diamond Ball
QD8-4B	4 mm Fluted Ball		QD8-4DX	4 mm Extra Coarse Diamond Ball
QD8-5B	5 mm Fluted Ball		QD8-5DX	5 mm Extra Coarse Diamond Ball
QD8-6B	6 mm Fluted Ball		QD8-6DX	6 mm Extra Coarse Diamond Ball
QD8-7B	7 mm Fluted Ball		QD8-1R	1.4 mm x 12.8 mm Fluted Router
QD8-05SD	0.5 mm Diamond Ball		QD8-4OV	4 mm x 8 mm Fluted Oval
QD8-1SD	1 mm Diamond Ball		QD8-4OVD	4 mm x 8 mm Diamond Oval
QD8-15SD	1.5 mm Diamond Ball		QD8-5OV	5 mm x 10 mm Fluted Oval
QD8-2SD	2 mm Diamond Ball		QD8-8N-18	1.8 mm Fluted Matchstick
QD8-25SD	2.5 mm Diamond Ball		QD8-8N	2.3 mm Fluted Matchstick
QD8-3SD	3 mm Diamond Ball		QD8-8NS	3 mm Fluted Matchstick
QD8-3SD-100	3 mm Diamond Ball, 100/120 Grit		QD8-8ND	2.5 mm Diamond Matchstick
QD8-35SD	3.5 mm Diamond Ball		QD8-5AC	5 mm Fluted Acorn
QD8-4D	4 mm Diamond Ball		QD8-6AC	6 mm Fluted Acorn
QD8-5D	5 mm Diamond Ball		QD8-4DRM	4 mm x 8.9 mm Fluted Drum, Side Cut Only
QD8-6D	6 mm Diamond Ball		QD8-62DRM	6.2 mm x 4.6 mm Fluted Drum, Side Cut Only
QD8-1SDC	1 mm Coarse Diamond Ball		QD8-62BE	6.2 mm Fluted Bell, Side Cut Only
QD8-15SDC	1.5 mm Coarse Diamond Ball, 120/140 Grit		QD8-5BA	5 mm x 10 mm Fluted Barrel
QD8-2SDC	2 mm Coarse Diamond Ball			

*Standard length cutting burrs extend approximately 16 mm from the distal end of the attachment.  
Extended length cutting burrs extend approximately 27 mm from the distal end of the attachment.*



**QD11-S**

**10.5 cm Angle Attachment** **XM** **MM** **EM**

**B-QD11-S**

**10.5 cm Angle Attachment** **BM**

**QD11**

**11 cm Angle Attachment** **XM** **MM** **EM**

**B-QD11**

**11 cm Angle Attachment** **BM**

QD11-1SB	1 mm Fluted Ball	QD11-1R	1.4 mm x 12.8 mm Fluted Router
QD11-2SB	2 mm Fluted Ball	QD11-4OV	4 mm x 8 mm Fluted Oval
QD11-3SB	3 mm Fluted Ball	QD11-4OVD	4 mm x 8 mm Diamond Oval
QD11-4B	4 mm Fluted Ball	QD11-4OVDC	4 mm x 8 mm Coarse Diamond Oval
QD11-5B	5 mm Fluted Ball	QD11-5OV	5 mm x 10 mm Fluted Oval
QD11-6B	6 mm Fluted Ball	QD11-8N-18	1.8 mm Fluted Matchstick
QD11-7B	7 mm Fluted Ball	QD11-8N	2.3 mm Fluted Matchstick
QD11-1SD	1 mm Diamond Ball	QD11-8NS	3 mm Fluted Matchstick
QD11-2SD	2 mm Diamond Ball	QD11-8NS-M	3 mm Fluted Matchstick, Less Aggressive
QD11-3SD	3 mm Diamond Ball	QD11-8ND	2.5 mm Diamond Matchstick
QD11-4D	4 mm Diamond Ball	QD11-8NSDC	3.2 mm Coarse Diamond Matchstick
QD11-5D	5 mm Diamond Ball	QD11-4AC	4 mm Fluted Acorn
QD11-6D	6 mm Diamond Ball	QD11-5AC	5 mm Fluted Acorn
QD11-3SDC	3 mm Coarse Diamond Ball	QD11-6AC	6 mm Fluted Acorn
QD11-4DC	4 mm Coarse Diamond Ball	QD11-6P	6 mm x 9 mm Fluted Pear
QD11-5DC	5 mm Coarse Diamond Ball	QD11-4DRM	4 mm x 8.9 mm Fluted Drum, Side Cut Only
QD11-6DC	6 mm Coarse Diamond Ball	QD11-5DRM	5 mm x 8.4 mm Fluted Drum
QD11-4DX	4 mm Extra Coarse Diamond Ball	QD11-62DRM	6.2 mm x 4.6 mm Fluted Drum, Side Cut Only
QD11-5DX	5 mm Extra Coarse Diamond Ball	QD11-45DRMDX	4 mm x 5 mm Extra Coarse Diamond Drum
QD11-6DX	6 mm Extra Coarse Diamond Ball	QD11-5BA-A	5 mm x 11.3 mm Fluted Barrel
QD11-7DX	7 mm Extra Coarse Diamond Ball	QD11-6BA-A	6 mm x 11.3 mm Fluted Barrel



**QD14-S**

**13.5 cm Angle Attachment** **XM** **MM** **EM**

**B-QD14-S**

**13.5 cm Angle Attachment** **BM**

**QD14**

**14 cm Angle Attachment** **XM** **MM** **EM**

**B-QD14**

**14 cm Angle Attachment** **BM**

QD14-3SB	3 mm Fluted Ball	QD14-4DC	4 mm Coarse Diamond Ball
QD14-4B	4 mm Fluted Ball	QD14-5DC	5 mm Coarse Diamond Ball
QD14-5B	5 mm Fluted Ball	QD14-6DX	6 mm Extra Coarse Diamond Ball
QD14-6B	6 mm Fluted Ball	QD14-4OV	4 mm x 8mm Fluted Oval
QD14-1SD	1 mm Diamond Ball	QD14-8N-18	1.8 mm Fluted Matchstick
QD14-2SD	2 mm Diamond Ball	QD14-8N	2.3 mm Fluted Matchstick
QD14-3SD	3 mm Diamond Ball	QD14-8NS	3 mm Fluted Matchstick
QD14-4D	4 mm Diamond Ball	QD14-8ND	2.5 mm Diamond Matchstick
QD14-5D	5 mm Diamond Ball	QD14-47DRM	4.7 mm x 8 mm Fluted Drum
QD14-6D	6 mm Diamond Ball		

# Saw Attachments and Saw Blades

**XM MM BM EM E12**

## microSaws

Designed for small bone resection, the advanced microSaws provide the combination of versatility, convenience, small size, and premium performance. The microSaw Drivers provide direct connection to all Anspach pneumatic and electric handpieces. The Drivers also enable rapid exchange of saw head styles through a unique quick-disconnect system. The microSaw attachments also connect effortlessly to the e12 instrument system.

### PERFORMANCE SPECIFICATION

OSCILLATING AND SAGITTAL SAW	
Speed:	12,000cpm
Arc:	6°
RECIPROCATING SAW	
Speed:	12,000cpm
Axial Travel:	.1 in (2.5 mm)

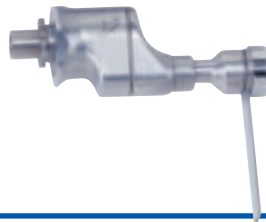


### DRIVER

Keyless Driver **XM MM EM**

### BM-DRIVER

Keyless Driver **BM**



### O-SAW

### Oscillating microSaw Attachment

MO-3001	28.5 mm x 5.5 mm Osc. Micro Blade
MO-3002	31 mm x 10 mm Osc. Micro Blade
MO-3003	21 mm x 5.5 mm Osc. Micro Blade

MO-3005	18.5 mm x 10 mm Osc. Micro Blade
MO-3006	14 mm x 5.5 mm Osc. Micro Blade



### R-SAW

### Reciprocating microSaw Attachment

MR-0500	6.6 mm, 9th/cm Recip. Micro Blade
MR-0520	22.9 mm, 9th/cm Recip. Micro Blade
MR-0540	25.1 mm, 14th/cm Recip. Micro Blade
MR-0560	15 mm, 13th/cm Recip. Micro Blade

MR-0580	21.35 mm, 13th/cm Recip. Micro Blade
MR-0600	25.4 mm, 9th/cm Recip. Micro Blade
MR-14006	39.5 mm, 9th/cm Recip. Micro Blade



### S-SAW

### Sagittal microSaw Attachment

MS-3101	25.5 mm x 9.5 mm Sag. Micro Blade
MS-3102	25.5 mm x 4.5 mm Sag. Micro Blade
MS-3104	15.2 mm x 9.5 mm Sag. Micro Blade

MS-3106	25.5 mm x 5.5 mm Sag. Micro Blade
MS-3108	34 mm x 4 mm Sag. Micro Blade
MS-3101C	25.5 mm x 9.5 mm Coarse Sag. Micro Blade

## Sagittal Saws

The Sagittal Saws assure precise and smooth cutting in a wide range of procedures. The MM-SAGITTAL and B-SAGITTAL operate at 120 psi, providing 20,000 cycles per minute while it oscillates through a blade arc of 4 degrees. The E-SAGITTAL is self-powered and connects directly to all electric system consoles.



### E-SAGITTAL

High Powered Electric Sagittal Saw **EM**



### MM-SAGITTAL

Sagittal Saw **XM MM EM**

### B-SAGITTAL

Sagittal Saw **BM**

LS-3405	5 mm x 20 mm Graft Harvesting Blade
LS-3406	6 mm x 20 mm Graft Harvesting Blade
LS-3407	7 mm x 20 mm Graft Harvesting Blade
LS-3408	8 mm x 20 mm Graft Harvesting Blade
LS-3409	9 mm x 20 mm Graft Harvesting Blade
LS-3410	10 mm x 2 0mm Graft Harvesting Blade

LS-3411	11 mm x 20 mm Graft Harvesting Blade
LS-3412	12 mm x 20 mm Graft Harvesting Blade
LS-3413	13 mm x 20 mm Graft Harvesting Blade
MS-3100C	41 mm x 14 mm Coarse Sagittal Saw Blade
MS-3231	41 mm x 19.5 mm Sagittal Saw Blade
MS-3240	41 mm x 9.5 mm Sagittal Saw Blade

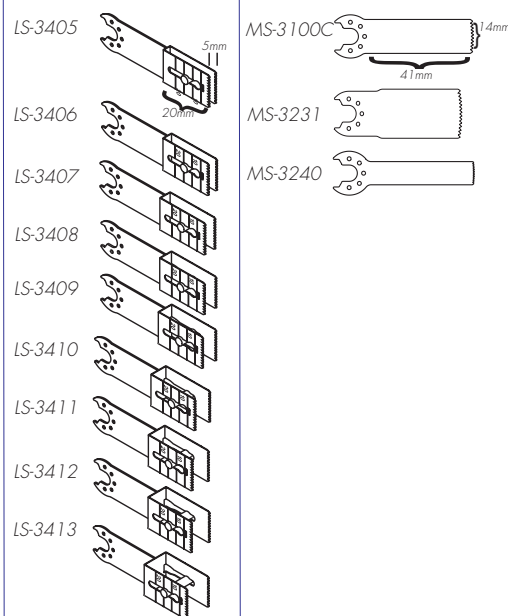
For LS- blades, the first number represents the distance between the blades, and the second number indicates the depth of the cut. For the MS- and MO- blades, the first number indicates the depth of cut, and the second number indicates the height of the blade. Refer to the examples in the illustration below.

## Saw Blade Styles

All saw blades are supplied sterile and are designed for single use only.

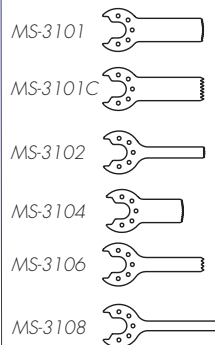
### Sagittal Saw Blades (E-SAGITTAL, B-SAGITTAL, MM-SAGITTAL only)

#### Graft Harvesting Blades Sagittal Blades

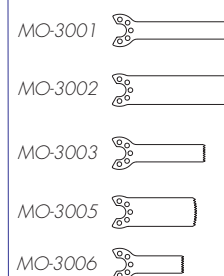


### Microsaw Blades (S-SAW, O-SAW, R-SAW)

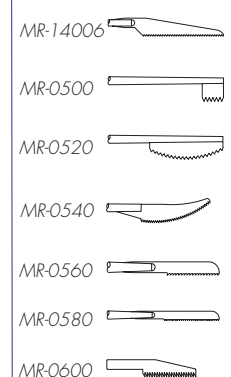
#### Micro Sagittal Saw Blades (S-SAW)



#### Micro Oscillating Saw Blades (O-SAW)



#### Micro Reciprocating Saw Blades (R-SAW)



# Additional Surgical Instruments and Accessories

**XM MM BM EM**

## Bone Collector

Installed in the suction tubing, the Bone Collector collects bone as the fragments are suctioned from the surgical site. Collected bone can then be used to fulfill bone graft requirements.



**B-COLLECTOR-1**

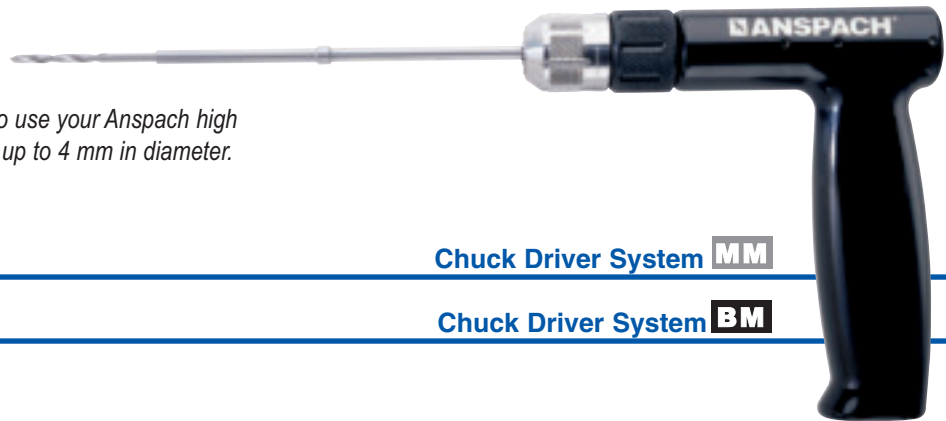
**Bone Collector (Qty. 1)**

**B-COLLECTOR-BX**

**Bone Collector (Qty. 12)**

## Chuck Driver System

This attachment provides the ability to use your Anspach high speed drill system to drive twist drills up to 4 mm in diameter. (Approx. 3,500 rpm)



**C-SYSTEM**

**Chuck Driver System MM**

**BC-SYSTEM**

**Chuck Driver System BM**

## Compact SpeedReducer

This attachment allows Hudson style cranial perforators to be used with all Anspach Power Instrument Systems.



**CSR60**

**Perforator Driver with Hudson End (60:1 Ratio, approx. 1,300 rpm)**

**5.8 in. long, 1.5 in. diameter, .8 lbs.**

**XM MM EM**

**CSRSC**

**Storage Cover, Drive Shaft Protector Replacement**

**CSR60BM**

**Perforator Driver with Hudson End (60:1 Ratio, approx. 1,300 rpm)**

**5.1 in. long, 1.5 in. diameter, .8 lbs.**

**BM**

**CSRSC-BM**

**Storage Cover, Drive Shaft Protector Replacement**



## Coupler

This specialty attachment is designed to provide direct connection between the Anspach pneumatic and electric surgical drill motors to the Midas Rex® Legend® Bone Mill.



### COUPLER

Coupler for Anspach Motors **XM MM EM**



### BM-COUPLER

Coupler for Black Max Handpiece **BM**

## Directional Suction Irrigator

The Anspach Directional Suction Irrigator is a suction/irrigation attachment designed specifically for the Otolaryngologist. The unique design enables irrigation flow to be directed laterally to the surgical site intraoperatively. The top-loaded irrigation tube can be set in five different positions in 45° increments through a 180° range. The selected position is then retained by a simple locking mechanism. The Directional Suction Irrigators are available in a comprehensive range of styles and diameters.



The Anspach Companies acknowledges Thomas Roland Jr., M.D., Director of Otolaryngology & Neurotology, NYU Medical Center, for his valuable contributions to Anspach and the Directional Suction Irrigator.

DI-05	5F x 8 cm open
DI-07	7F x 8 cm open
DI-10	10F x 8 cm open
DI-12	12F x 8 cm open

DIL-05	5F x 10 cm open
DIL-07	7F x 10 cm open
DIB-05	5F x 8 cm Whistle Style
DIB-07	7F x 8 cm Whistle Style

## Jobe Shoulder Instruments

Jobe Shoulder Instrumentation includes all of the following items.



### JSI

### Jobe Shoulder Instruments

GNR	Glenoid Neck Retractor (3 Prong)
HHR-1	Humeral Head Retractor (1 Prong)
HHR-1N	Humeral Head Retractor (1 Prong Narrow)
HHR-2	Humeral Head Retractor (2 Prong)
DELTOID	Deltoid Retractor (2 each)

CON-TEN	Conjoined Tendon Retractor
SUB-SCAP	Subscapularis Retractor
AWL-90	Awl for Suture Holes (90°)
AWL-110	Awl for Suture Holes (110°)
INST-CASE	Instrument Case

The Anspach Companies acknowledges Dr. Frank Jobe for his valuable contributions to Anspach and the Jobe Shoulder Instruments.

## KAM SuperSucker

Disposable Suction Tips/Filters

SS1	Super Sucker Long (BX/20)
SS2	Super Sucker Short (BX/20)
SS2C	Super Sucker Short Curved (BX/20)

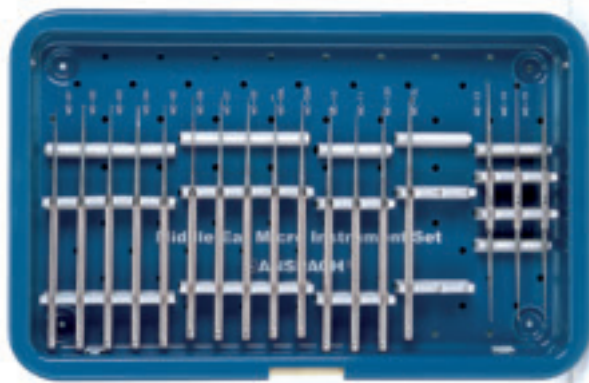













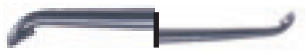




# Additional Surgical Instruments and Accessories

## Middle Ear Micro Instrument Set

The Anspach Middle Ear Micro Instrument Set is a comprehensive group of micro instruments designed specifically for the Neurotologist and Otolaryngologist for use during middle ear procedures. The set includes dissectors, elevators, curettes, rasps, and knives that have special design considerations for the unique requirements of middle ear procedures such as Tympanoplasty, Stapedectomy, Cholesteatomas, Glomus tumor, and Cochlear implants.

The Anspach Companies acknowledges Sean McMenomey, M.D., Associate Professor, Otolaryngology/Skull Base Surgery Oregon Health & Science University, for his valuable contributions to Anspach and the Middle Ear Micro Instrument Set.



	<b>ME-01</b> Sickle Style Knife, sharp dissection		<b>ME-09R</b> Whirley Bird Right
	<b>ME-02</b> Round Knife, flap elevation		<b>ME-10</b> Duckbill 2mm Sharp, tumor dissection, flap elevation, cholesteatoma elevation
	<b>ME-03</b> Gimmick Elevator, Annulus elevator, unzips the tympanic membrane		<b>ME-11</b> Pick, Right Angle, dissection
	<b>ME-04</b> Sickle Hybrid, Gimmick Elevator with sickle style blade configuration		<b>ME-12S</b> Rasp, Short, 3.5mm, removal of disease from bone
	<b>ME-05</b> Needle-Sharp Point, slightly curved, Stapes fenestrations and sharp micro dissection		<b>ME-12L</b> Rasp, Long, 5mm
	<b>ME-06</b> Right Angle Knife, sharp dissection towards surgeon	 <b>ME-13</b> Double Ended Curette, 1mm x 2mm and 2mm x 3mm, bone removal  <b>ME-14</b> Double Ended Knife, 45 and 90 degree  <b>ME-15</b> Double Ended Tab Knife, 45 and 90 degree	
	<b>ME-07</b> Hockey Stick, .5mm x 2.5mm, "Jimmy" Dissection around corners, blind dissection		
	<b>ME-08</b> Hockey Stick, .5mm x 1.5mm		
	<b>ME-09L</b> Whirley Bird Left, facial nerve decompression, dissection around corners		

**ME-TRAY** Middle Ear Set Tray

## Multiple Outlet Manifold and Hoses

MOM	Multiple Outlet Manifold
CC	C-Clamp Attachment
HOSE-01	10 Inch Air Extension Hose
HOSE-5	5 Foot Air Extension Hose
HOSE-10	10 Foot Air Extension Hose
HOSE	20 Foot Air Extension Hose

HOSE-DISS	10 Inch Air Extension Hose with DISS Adapter
HOSE-5-DISS	5 Foot Air Extension Hose with DISS Adapter
HOSE-10-DISS	10 Foot Air Extension Hose with DISS Adapter
HOSE-15-DISS	15 Foot Air Extension Hose with DISS Adapter
HOSE-20-DISS	20 Foot Air Extension Hose with DISS Adapter

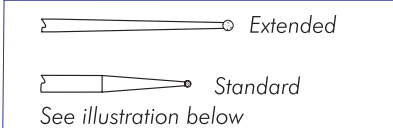
C-Clamp and Extension Hose may be added to any MOM unit intended for use with O.R. wall outlets.

# Cutting Burr Styles

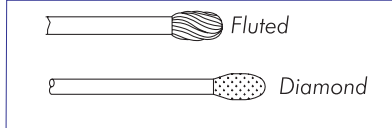
**XM MM BM EM**

Cutting burrs are pictured for head styles only. Please refer to your cutting burr chart for available lengths and additional detail. All cutting burrs are supplied sterile unless otherwise indicated and are designed for single use only.

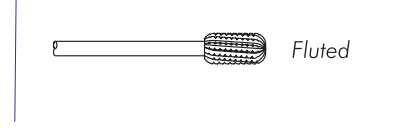
## STANDARD/EXTENDED STYLES



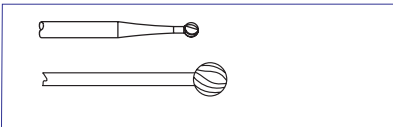
## OVAL



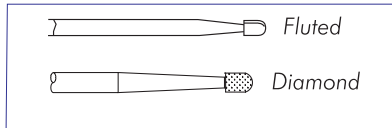
## BARREL



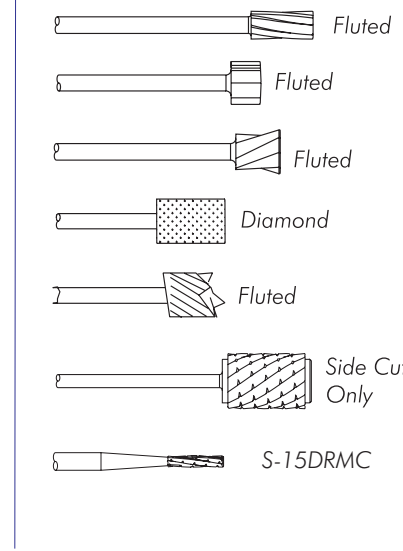
## FLUTED BALL



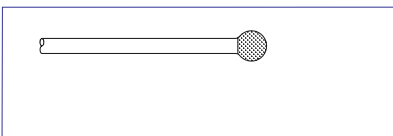
## MATCHSTICK



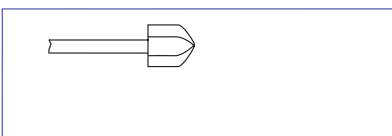
## DRUM



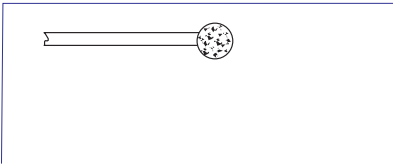
## DIAMOND BALL



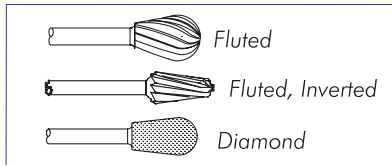
## ACORN



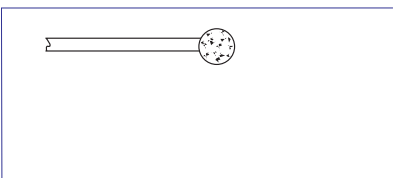
## COARSE DIAMOND BALL



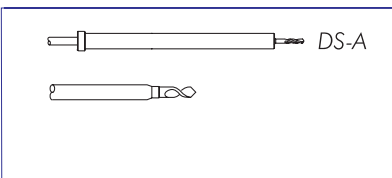
## PEAR SHAPED



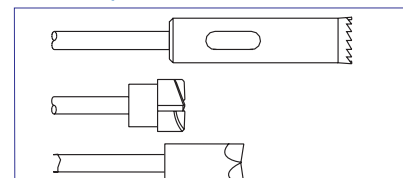
## EXTRA COARSE DIAMOND BALL



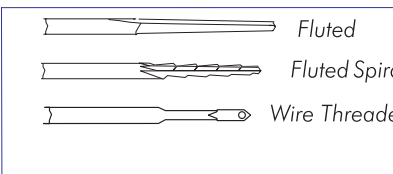
## TWIST DRILL



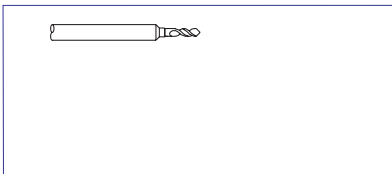
## CORING/BORING



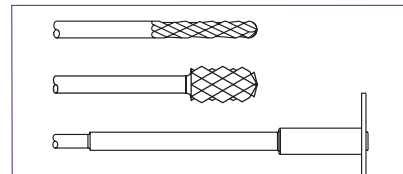
## ROUTER



## ADG



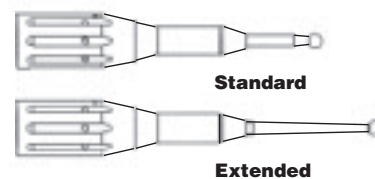
## METAL CUTTING



## STANDARD AND EXTENDED STYLES

Standard length cutting burrs extend approximately 16 mm from the distal end of the attachment. Extended length cutting burrs extend approximately 27 mm from the distal end of the attachment

The extended length offers the surgeon greater visibility of the cutter head style.



**To Order/Customer Service** Tel: (800) 327 6887, +1 561 627 1080 Fax: (800) 327 6661, +1 561 625 9110

 **Manufacturer**

**The Anspach Effort<sup>®</sup>, Inc.** 4500 Riverside Drive, Palm Beach Gardens, FL 33410, USA

Tel: (800) 327 6887, +1 561 627 1080 Fax: +1 561 627 1265

Web: [www.anspach.com](http://www.anspach.com) Email: [info@anspach.com](mailto:info@anspach.com)



**Anspach Europe Ltd.** Aston Court, Kingsmead Business Park, Frederick Place, High Wycombe, HP11 1LA, United Kingdom

Tel: +441494 616126 Fax: +441494 616001

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Black Max System U.S. Patent Nos. RE 37,358; 5,405,348; 5,60,818; 5,904,687; 5,741,084 and 7,458,979. Cutting Burrs U.S. Patent No. 5,601,560 and 6,607,533. eMax<sup>®</sup> and eMax 2 and eMax 2 Plus System U.S. Patent Nos. RE 37,358; 5,630,818; 5,904,687; 6,733,218; 6,746,153; 6,749,341 and 7,458,979. Minimal Access Attachment U.S. Patent No. 6,749,341. micrMax System U.S. Patent Nos. Re 6,733,218; 6,746,153; 6,749,341; 7,458,979. XMax<sup>®</sup> System U.S. Patent Nos. RE 37,358; 5,630,818; 5,904,687; 6,733,218; 6,746,153; 6,749,341; 7,128,544; 7,217,090; 7,255,546; 7,261,526 and 7,458,979. Additional U.S. and International patents pending.

