

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 Orthopedics. We are committed to providing product quality, technology, and service that is best in class.



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.

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MOTOR KEY		
	XMax	XM
	microMax Plus	M M
	Black Max	ВМ
	iMRI	IMRI
	eMax 2	EM
	e12	E12
1		

Pneumatic High Performance Instrument System



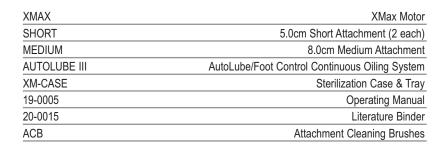


The XMax® sets a new standard for the ultimate combination of high power, smooth operation, low noise level, and small size. This new level of performance provides the perfect pneumatic system to handle a complete range of surgical procedures ranging from power demanding applications to the most delicate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

With an operating speed of 80,000 rpm at 90-120 psi input pressure, the XMax system is the quietest pneumatic motor available, with 35% more power than Black Max and 50% more than microMax Plus.

THE PNEUMATIC SYSTEM I (Otolaryngology)







THE PNEUMATIC SYSTEM II (Neurosurgery, Skull Base)



XMAX	XMax Motor
SHORT	5.0 cm Short Attachment (2 each)
MEDIUM	8.0cm Medium Attachment
LONG	11.0cm Long Attachment
CRANI-A ¹	6.5cm Adult Craniotome Attachment
CRANI-P	6.5cm Pediatric Craniotome Attachment
CRANI-L ¹	7.5cm Large Craniotome Attachment
SHORT-HD ¹	5.0cm 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

 $^{^{\}scriptscriptstyle 1}$ 3.2mm (1/8") cutter shaft; all other attachments are 2.4mm (3/32") cutter shaft



Pneumatic High Performance Instrument System





The Black Max® 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)

В	M
•	1

BLACKMAX-N	Black Max Swivel/Angle Motor
B-GREEN	Standard Craniotome
B-TURQ-X ¹	Pediatric Craniotome
B-GOLD	Large Craniotome
B-TURQUOISE ¹	5.9cm Attachment
B-SILVER	6.1cm Attachment
B-VIOLET	8.2cm Attachment
B-TURQ-L ¹	12.6cm Tapered Attachment
B-QD8 ^{1,2}	8cm 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



² May substitute with B-QD11 or B-QD14



PNEUMATIC INSTRUMENT SYSTEM MOTORS



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

Pneumatic Accessories and Irrigation System







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
AUTOLUBE-III-DISS-20	Foot Control with 20' Hose, DISS Adapter
AUTOLUBE-III-MA7	Foot Control, MA7 Adapter
AUTOLUBE-III-IRR	Foot Control for Irrigation System
AUTOLUBE-III-IRR-MA7	Foot Control for Irrigation System, MA7 Adapter
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

^{*}For additional Extension Hoses, see Multiple Outlet Manifold and Hoses, page 24.

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.)
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 CLI	PS 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 C	ELIPS
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

i M R I



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

The iMRI Motor System utilizes non-magnetic materials in the motor, 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 System includes the pneumatic iMRI Motor, iMRI Foot Control, three iMRI attachments and cutters, and iMRI Motor Oil.

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

IMRI

IMRI-SHORT-HD

IMRI SYSTEM MOTORS IMRI-MOTOR iMRI Motor **IMRI SYSTEM ACCESSORIES** IMRI-FOOT-CTRL iMRI Air Control IMRI-OIL iMRI Synthetic Oil

Intraoperative **Magnetic Resonance Imaging XMax Motor**

iMRI Short Heavy

iMRI Attachments

IMRI-SHORT



iMRI Short Attachment

,	

IMRI-S-4B	4mm Fluted Ball
IMRI-S-1R	1.4mm x 12.8mm Fluted Router
IMPLS 1004TD	1 0mm v / 0mm Twist Drill with Denth Ston



	Duty Attachment IMRI
IMRI-SHD-6B	6mm Fluted Ball
IMRI-SHD-6R	1.12mm x 6.35mm Fluted Router
IMRI-A-CRN	1.85mm x 16mm Fluted Router





iMRI Adult Craniotome IMRI **IMRI-CRANI-A**

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

Electric High Performance Instrument System





The EMAX 2 has the power for cranial neurosurgery with 40% more torque than eMax. Other improvements include dual motor and foot pedal capability and a removable hand control.





EMAX2	eMax 2 Motor
SC2000	System Console
EMAX2-FP	Foot Control
SHORT	5.0cm Short Attachment (2 each)
MEDIUM	8.0cm Medium Attachment
LONG	11.0cm Long Attachment
CRANI-A	6.5cm Adult Craniotome Attachment
CRANI-P	6.5cm Pediatric Craniotome Attachment
CRANI-L	7.5cm Large Craniotome Attachment
SHORT-HD	5.0cm Heavy Duty Short Attachment
EMAX2-TRAY	Sterilization Case & Tray
ACB	Attachment Cleaning Brushes
19-0005	Operating Manual
20-0015	Literature Binder











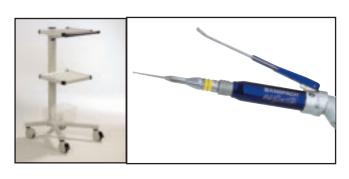


EMAX 2 INSTRUMENT SYSTEM ACCESSORIES



EMAX2-HC	Hand Control
EMAX2-FP	Foot Control
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





The e12 is pictured with the SA-JACOBS attachment.

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

The e12 combines the advantages of an electric motor system with an optimum balance of power, smooth operation, and ergonomic comfort. The Anspach SC2000 System Console provides 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.

E12 INSTRUMENT SYSTEM ACCESSORIES

E12	e12 Electric Motor
E12-HC	e12 Hand Control
SC2000	System Console
EMAX2-FP	Foot Control
SC-CART	Cart



Small Attachments: J-Latch and Jacobs Chuck

The J-Latch and Jacobs Chuck attachments permit the use of a broad range of various cutting burrs 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 4mm.



SA-JLATCH

Small Attachment J-Latch E12



SA-JACOBS

Small Attachment, Jacobs Chuck **E12**

Anspach Standard Attachments and Cutting Burrs



Straight Attachments



SHORT	-	12		
S-1B	1mm Fluted Ball	extended	S-2SDC	2mm Coarse I
S-1SB	1mm Fluted Ball	standard	S-2SDCT	2mm Coarse I
S-15B	1.5mm Fluted Ball	extended	S-25DC	2.5mm Coarse
S-15SB	1.5mm Fluted Ball	standard	S-25SDC	2.5mm Coarse
S-2B	2mm Fluted Ball	extended	S-3DC	3mm Coarse
S-2SB	2mm Fluted Ball	standard	S-3SDC	3mm Coarse I
S-2SBT	2mm Fluted Ball Tapered	standard	S-3SDCT	3mm Coarse
S-25B	2.5mm Fluted Ball	extended	S-3SDC-50	3mm Coarse D
S-25SB	2.5mm Fluted Ball	standard	S-35DC	3.5mm Coarse
S-3B	3mm Fluted Ball	extended	S-4DC	4mm Coarse
S-3SB	3mm Fluted Ball	standard	S-5DC	5mm Coarse
S-3SBT	3mm Fluted Ball, Tapered	standard	S-5DC-40	5mm Coarse
S-35B	3.5mm Fluted Ball	extended	S-6DC	6mm Coarse
S-35SB	3.5mm Fluted Ball	standard	S-8DC	8mm Coarse
S-4B	4mm Fluted Ball	Stariuaru	S-4DX	4mm Extra Co
S-5B	5mm Fluted Ball		S-5DX	5mm Extra Co
S-5B-12F	5mm Fluted Ball, 12 Flutes		S-6DX	6mm Extra Co
S-6B	6mm Fluted Ball		S-0DX S-1R	1.4mm x 12.8
	7mm Fluted Ball		S-1R S-6R	1.4(1)(1) x 12.0
S-7B				
S-8B	8mm Fluted Ball		S-40V	4mm x 8mm F
S-9B	9mm Fluted Ball		S-8N-18	1.8mm Fluted
S-05D	0.5mm Diamond Ball	extended	S-8N	2.3mm Fluted
S-06SD	0.6mm Diamond Ball	standard	S-8NS	3mm Fluted N
S-08SD	0.8mm Diamond Ball	standard	S-8NS-M	3mm Fluted M
S-1D	1mm Diamond Ball	extended	0.010	(Less Aggress
S-1SD	1mm Diamond Ball	standard	S-8ND	2.5mm Diamo
S-12D	1.2mm Diamond Ball	extended	S-8NSD	3.2 Diamond I
S-15D	1.5mm Diamond Ball	extended	S-5AC	5mm Fluted A
S-15SD	1.5mm Diamond Ball	standard	S-6AC	6mm Fluted A
S-2D	2mm Diamond Ball	extended	S-9AC	9.2mm Fluted
S-2SD	2mm Diamond Ball	standard	S-1203TD	1.2mm x 3mm
S-2SD-120	2mm diamond Ball, 120/140 Grit	standard	S-2433TD	2.4mm x 3.3m
S-25D	2.5mm Diamond Ball	extended	S-1254-TD	Twist Drill for
S-25SD	2.5mm Diamond Ball	standard	S-1504TD	Twist Drill for
S-3D	3mm Diamond Ball	extended	S-1506TD	Twist Drill for
S-3SD	3mm Diamond Ball	standard	S-1506TD-M	1.5mm x 6mm
S-3SD-100	3mm Diamond Ball, 100/120 Grit	standard	S-1510TD	1.55mm x 10r
S-35D	3.5mm Diamond Ball	extended	S-2004TD	Twist Drill for
S-35SD	3.5mm Diamond Ball	standard	S-2006TD	Twist Drill for
S-4D	4mm Diamond Ball		S-6P	6mm x 9mm F
S-4D-100	4mm Diamond Ball, 100/120 Grit		S-6IP	6mm x 11.8m
S-5D	5mm Diamond Ball		S-7IP	7mm x 13.1m
S-5D-100	5mm Diamond Ball, 100/120 Grit		S-6PD	6mm x 9mm [
S-6D	6mm Diamond Ball		S-15DRMC	1.5mm x 7.5m
S-1DC	1mm Coarse Diamond Ball	extended	S-68DRMDC	6.8mm x 10.6
S-1SDC	1mm Coarse Diamond Ball	standard	S-68DRMDX	6.8mm x 10.6
S-15DC	1.5mm Coarse Diamond Ball	extended		
S-15SDC	1.5mm Coarse Diamond Ball, 120/140 Grit	standard	=	cutting burrs exter
S-2DC	2mm Coarse Diamond Ball	extended	end of the attack	hment. Extended l
			07 (()	-1:-4-11 - £41

	John Ghort Atte	a di ilii
S-2SDC	2mm Coarse Diamond Ball	standard
S-2SDCT	2mm Coarse Diamond Ball, Tapered	standard
S-25DC	2.5mm Coarse Diamond Ball	extended
S-25SDC	2.5mm Coarse Diamond Ball	standard
S-3DC	3mm Coarse Diamond Ball	extended
S-3SDC	3mm Coarse Diamond Ball	standard
S-3SDCT	3mm Coarse Diamond Ball, Tapered	standard
S-3SDC-50	3mm Coarse Diamond Ball, 50/60 Grit	standard
S-35DC	3.5mm Coarse Diamond Ball	extended
S-4DC	4mm Coarse Diamond Ball	
S-5DC	5mm Coarse Diamond Ball	
S-5DC-40	5mm Coarse Diamond Ball, 40/60 Grit	
S-6DC	6mm Coarse Diamond Ball	
S-8DC	8mm Coarse Diamond Ball	
S-4DX	4mm Extra Coarse Diamond Ball	
S-5DX	5mm Extra Coarse Diamond Ball	
S-6DX	6mm Extra Coarse Diamond Ball	
S-1R	1.4mm x 12.8mm Fluted Router	
S-6R	1.12mm x 6.35mm Fluted Router	
S-40V	4mm x 8mm Fluted Oval	
S-8N-18	1.8mm Fluted Matchstick	
S-8N	2.3mm Fluted Matchstick	
S-8NS	3mm Fluted Matchstick	
S-8NS-M	3mm Fluted Matchstick, Extends 8.9mm	
	(Less Aggressive)	
S-8ND	2.5mm Diamond Matchstick	
S-8NSD	3.2 Diamond Matchstick	
S-5AC	5mm Fluted Acorn	
S-6AC	6mm Fluted Acorn	
S-9AC	9.2mm Fluted Acorn	
S-1203TD	1.2mm x 3mm Twist Drill	
S-2433TD	2.4mm x 3.3mm Twist Drill	
S-1254-TD	Twist Drill for 1.25mm x 4mm Screw	
S-1504TD	Twist Drill for 1.5mm x 4mm Screw	
S-1506TD	Twist Drill for 1.5mm x 6mm Screw	
S-1506TD-M	1.5mm x 6mm Fluted Twist Drill	
S-1510TD	1.55mm x 10mm Fluted Twist Drill	
S-2004TD	Twist Drill for 2.0mm x 4mm Screw	
S-2006TD	Twist Drill for 2.0mm x 6mm Screw	
S-6P	6mm x 9mm Fluted Pear	
S-6IP	6mm x 11.8mm Fluted Pear, Inverted	
S-7IP	7mm x 13.1mm Fluted Pear, Inverted	
S-6PD	6mm x 9mm Diamond Pear	
S-15DRMC	1.5mm x 7.5mm Cylindrical Carbide Drum	
S-68DRMDC	6.8mm x 10.6mm Coarse Diamond Drum	
S-68DRMDX	6.8mm x 10.6mm Extra Coarse Diamond I	Orum

5cm Short Attachment

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

Anspach Standard Attachments and Cutting Burrs





MEDIUM

8cm Medium Attachment

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

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



LONG

11cm Long Attachment

L-1SB	1mm Fluted Ball	standard
L-2SB	2mm Fluted Ball	standard
L-3SB	3mm Fluted Ball	standard
L-4B	4mm Fluted Ball	
L-5B	5mm Fluted Ball	
L-6B	6mm Fluted Ball	
L-7B	7mm Fluted Ball	
L-9B	9mm Fluted Ball	
L-1SD	1mm Diamond Ball	standard
L-2SD	2mm Diamond Ball	standard
L-3SD	3mm Diamond Ball	standard
L-4D	4mm Diamond Ball	
L-5D	5mm Diamond Ball	
L-6D	6mm Diamond Ball	
L-3SDC	3mm Coarse Diamond Ball	standard
L-4DC	4mm Coarse Diamond Ball	
L-5DC	5mm Coarse Diamond Ball	
L-6DC	6mm Coarse Diamond Ball	
L-4DX	4mm Extra Coarse Diamond Ball	
L-5DX	5mm Extra Coarse Diamond Ball	
L-6DX	6mm Extra Coarse Diamond Ball	
L-1R	1.2mm x 12.8mm Fluted Router	
L-40V	4mm x 8mm Fluted Oval	

L-50V	5mm x 10mm Fluted Oval
L-8N	2.3mm Fluted Matchstick
L-8NS	3mm Fluted Matchstick
L-8NS-M	3mm Fluted Matchstick (Less Aggressive)
L-8ND	2.5mm Diamond Matchstick
L-8NSD	3.2mm Diamond Matchstick
L-8NSDC	3.2mm Coarse Diamond Matchstick
L-5AC	5mm Fluted Acorn
L-7AC	7mm Fluted Acorn
L-4BA-S	4mm x 8mm Fluted Barrel
L-5BA	5mm x 10mm Fluted Barrel
L-35DR	3.5mm x 8.4mm Fluted Drum
L-4DRM	4mm x 8.9mm Fluted Drum (Side Cut Only)
L-5DRM	5mm x 8.4mm Fluted Drum
L-5DRC	5mm x 14mm Fluted Drum (Side Cut Only)
L-6DRC	6mm x 14mm Fluted Drum (Side Cut Only)
L-7DRC	7mm x 14mm Fluted Drum (Side Cut Only)
L-7DRC-11	7mm x 11mm Fluted Drum
L-8DRC	8mm x 14mm Fluted Drum (Side Cut Only)
L-8DRC-11	8mm x 11mm Fluted Drum
L-9DRC	9mm x 14mm Fluted Drum (Side Cut Only)
L-10DRC	10mm x 14mm Fluted Drum (Side Cut Only)
L-68DRMDX	6.8mm x 10.6mm Extra Coarse Diamond Drum



MIA16

16cm Minimally Invasive Attachment

MIA16-3SB	3mm Fluted Ball	standard
MIA16-4B	4mm Fluted Ball	
MIA16-6B	6mm Fluted Ball	
MIA16-4D	4mm Diamond Ball	

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

Anspach Standard Attachments and Cutting Burrs



Contra and Right Angle Attachments



45° Contra Angle Attachment

ORANGE-45

Multiple Angle



ORANGE-90

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

90° Right Angle Attachment

ORNG-8-23	2.3mm Fluted Matchstick	
ORNG-33	10.5mm Small Bone Burr	
ORNG-1275	1.2mm x 7.5mm Twist Drill	
ORNG-37	1.8mm Fluted Drum	

Craniotomes



CRANI-P	Pediatric Craniotome

P-CRN 1.4mm x 12.8mm Fluted Router



CRANI-L Large Craniotome

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

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



Adult Craniotome CRANI-A

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



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

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

Specialty Attachments



ADG 7.2cm Adjustable Drill Guide

The ADG adjusts 3-6mm increments.

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



6.8cm Controlled Depth Attachment

The CDA adjusts 1-4mm increments.

	CI	DA-1R	1.2mm x 12.8mm	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.

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.



SHORT-HD 5cm Heavy Duty Short Attachment

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

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



MEDIUM-HD 8cm Heavy Duty Medium Attachment

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

MHD-6B	6mm Fluted Ball	
MHD-25R	2.15mm x 25.4mm Fluted Router	
MHD-8NS	3mm Fluted Matchstick	
MHD-8NS-M	3mm Fluted Matchstick (Less Aggressive)	
MHD-6AC	6mm Fluted Acorn	
MHD-62DRM	6.2mm x 4.8mm Fluted Drum (Side Cut Only)	
MHD-3DRMC	3mm x 9.5mm Fluted Carbide Drum	
MHD-15C	3.2mm Fluted Carbide Side Cutter	
MHD-95DRM	9.5mm Fluted Drum	
MHD-17DD	17mm Diamond Disc	
MHD-25DD	25.4mm Diamond Disc	
MHD-16CT	6.47mm Coring Tool	
MHD-97B	12.6mm Boring Tool	
	(For Use with XMax Only)	
MHD-98B	9.5mm Boring Tool	
	(For Use with XMax Only)	



LONG-HD

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

LHD-3SB	3mm Fluted Ball	standard
LHD-4B	4mm Fluted Ball	
LHD-5B	5mm Fluted Ball	
LHD-6B	6mm Fluted Ball	
LHD-7B	7mm Fluted Ball	
LHD-8NS	3mm Fluted Matchstick	
LHD-8NS-M	3mm Fluted Matchstick (Less Aggressive)	
LHD-6AC	6mm Fluted Acorn	

LHD-5DRM	5mm x 8.4mm Fluted Drum
LHD-5DRM-L	5mm x 16.2mm Fluted Drum
LHD-64DRM	6.4mm Fluted Drum
LHD-95DRM	9.5mm Fluted Drum
LHD-LS9-35	3.5mm x 19.8mm Fluted Drum
LHD-LS9-5	4.7mm x 20mm Fluted Drum
LHD-LS9-76	7.6mm x 28.6mm Fluted Drum
I HD-95DRM	9.5mm Fluted Drum

12.4cm Heavy Duty Long Attachment



XL-HD Attachment

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

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XLHD-3SB	3mm Fluted Ball	standard
XLHD-4B	4mm Fluted Ball	
XLHD-5B	5mm Fluted Ball	
XLHD-6B	6mm Fluted Ball	
XLHD-7B	7mm Fluted Ball	
XLHD-9B	9mm Fluted Ball	
XLHD-55DC	5.5mm Coarse Diamond Ball	

20.2cm Heavy Duty Extra Long

XLHD-25R	2.15mm x 25.4mm Fluted Router
XLHD-8NS	3mm Fluted Matchstick
XLHD-8NS-M	3mm Fluted Matchstick (Less Aggressive)
XLHD-75AC	7.5mm Fluted Acorn
XLHD-51C	6.4mm Fluted Cylindrical Carbide
XLHD-95DRM	9.5mm Fluted Drum

Black Max Standard Attachments and Cutting Burrs

BM

Straight Attachments



B-SILVER 6.1cm Attachment

SIL-3	3mm Fluted Ball
SIL-4	4mm Fluted Ball
SIL-5	5mm Fluted Ball
SIL-6	6mm Fluted Ball
SIL-7	7mm Fluted Ball
SIL-7-9	9mm Fluted Ball
SIL-17-1	1mm Diamond Ball
SIL-17-2	2mm Diamond Ball
SIL-17-3	3mm Diamond Ball
SIL-17-4	4mm Diamond Ball
SIL-17-5	5mm Diamond Ball
SIL-17-6	6mm Diamond Ball
SIL-17-1C	1mm Coarse Diamond Ball
SIL-17-2C	2mm Coarse Diamond Ball
SIL-17-3C	3mm Coarse Diamond Ball
SIL-17-4C	4mm Coarse Diamond Ball
SIL-17-5C	5mm Coarse Diamond Ball
SIL-17-6C	6mm Coarse Diamond Ball
SIL-17-4CX	4mm Extra Coarse Diamond Ball
SIL-17-5CX	5mm Extra Coarse Diamond Ball
SIL-17-6CX	6mm Extra Coarse Diamond Ball
SIL-0	1.12 mm x 6.35mm Fluted Router
SIL-1-3	1.42mm x 6.4mm Fluted Router
SIL-1	1.85mm x 16mm Fluted Router
SIL-2	2.15mm x 25.4mm Fluted Router
SIL-2XL	3.05mm x 38.2mm Fluted Router
SIL-1S	2.15mm x 22mm Fluted Spiral Router
SIL-2S	2.47mm x 30.2mm Fluted Spiral Router
SIL-3-10	1.93mm Suture Pass Drill/1.17eye
SIL-8-18	1.8mm Fluted Matchstick

SIL-8	3mm Fluted Matchstick
SIL-8-M	3mm Fluted Matchstick (less aggressive)
SIL-8D-32	3.2mm Diamond Matchstick
SIL-39	5mm Fluted Acorn
SIL-24	6mm Fluted Acorn
SIL-32	7.5mm Fluted Acorn
SIL-38	9.2mm Fluted Acorn
SIL-1510	1.55mm x 10mm Twist Drill
SIL-464-4	Twist Drill for 2.0mm x 4mm Screw
SIL-466-6	Twist Drill for 2.0mm x 6mm Screw
SIL-DS-A	1.7mm x 11.9mm Drill w/Depth Stop (Aesculap®)
SIL-47	6.2mm Fluted Bell (Side Cut Only)
SIL-9-5	5.6mm Fluted Drum
SIL-9	6.4mm Fluted Drum
SIL-10	9.5mm Fluted Drum
SIL-11	12.7mm Fluted Drum
SIL-14-17	17mm Diamond Disc
SIL-14	25.4mm Diamond Disc
SIL-15	3.2mm Carbide Fluted Side Cutter
SIL-16-5	5.56mm Boring Tool
SIL-16	6.47mm Coring Tool
SIL-16XL2	6.47mm x 44.5mm Coring Tool
SIL-18	8.48mm Boring Tool
SIL-19	9.65mm Coring Tool
SIL-20	10.06mm Boring Tool
SIL-21	11.23mm Coring Tool
SIL-58B	12.7mm Boring Tool
SIL-22	13.23mm Boring Tool
SIL-23	14.40mm Coring Tool



B-TURQUOISE 5.9cm Attachment

TURQ-3	3mm Fluted Ball
TURQ-4	4mm Fluted Ball
TURQ-5	5mm Fluted Ball
TURQ-6	6mm Fluted Ball
TURQ-7	7mm Fluted Ball
TURQ-17-2	2mm Diamond Ball
TURQ-17-3	3mm Diamond Ball
TURQ-17-4	4mm Diamond Ball
TURQ-17-5	5mm Diamond Ball
TURQ-17-6	6mm Diamond Ball
TURQ-17-2C	2mm Coarse Diamond Ball
TURQ-17-3C	3mm Coarse Diamond Ball
TURQ-17-4C	4mm Coarse Diamond Ball
TURQ-17-5C	5mm Coarse Diamond Ball
TURQ-17-4CX	4mm Extra Coarse Diamond Ball

TURQ-17-5CX	5mm Extra Coarse Diamond Ball
TURQ-17-6CX	6mm Extra Coarse Diamond Ball
TURQ-0-1	.95mm x 12.8mm Fluted Router
TURQ-1-M	1.3mm x 12.8mm Fluted Router
TURQ-1	1.4mm x 12.8mm Fluted Router
TURQ-8-18	1.8mm Fluted Matchstick
TURQ-8-23	2.3mm Fluted Matchstick
TURQ-8	3mm Fluted Matchstick
TURQ-8-M	3mm Fluted Matchstick (less aggressive)
TURQ-8D-25	2.5mm Diamond Matchstick
TURQ-404-4	Twist Drill for 1.25mm x 4mm Screw
TURQ-406-6	Twist Drill for 1.25mm x 6mm Screw
TURQ-434-4	Twist Drill for 1.5mm x 4mm Screw
TURQ-436-6	Twist Drill for 1.5mm x 6mm Screw



B-VIOLET 8.2cm Attachment

VIO-7-2	2mm Fluted Ball
VIO-3	3mm Fluted Ball
VIO-4	4mm Fluted Ball
VIO-5	5mm Fluted Ball
VIO-6	6mm Fluted Ball
VIO-7	7mm Fluted Ball
VIO-7-9	9mm Fluted Ball
VIO-17-1	1mm Diamond Ball
VIO-17-2	2mm Diamond Ball
VIO-17-3	3mm Diamond Ball
VIO-17-4	4mm Diamond Ball
VIO-17-5	5mm Diamond Ball
VIO-17-6	6mm Diamond Ball
VIO-17-2C	2mm Coarse Diamond Ball
VIO-17-3C	3mm Coarse Diamond Ball
VIO-17-4C	4mm Coarse Diamond Ball
VIO-17-5C	5mm Coarse Diamond Ball
VIO-17-6C	6mm Coarse Diamond Ball
VIO-17-4CX	4mm Extra Coarse Diamond Ball
VIO-17-5CX	5mm Extra Coarse Diamond Ball
VIO-17-6CX	6mm Extra Coarse Diamond Ball
VIO-1	1.85mm x 16mm Fluted Router
VIO-2	2.15mm x 25.4mm Fluted Router
VIO-2XL	3.05mm x 38.2mm Fluted Router
VIO-40-4	4mm x 8mm Fluted Oval
VIO-40-5	5mm x 10mm Fluted Oval

VIO-40-55	5.5mm x 10mm Fluted Oval
VIO-87-5	5mm x 10mm Fluted Barrel
VIO-87-8	8mm x 12.5mm Fluted Barrel
VIO-8-18	1.8mm Fluted Matchstick
VIO-8	3mm Fluted Matchstick
VIO-8-M	3mm Fluted Matchstick (less aggressive)
VIO-8D-32	3.2mm Diamond Matchstick
VIO-39	5mm Fluted Acorn
VIO-24	6mm Fluted Acorn
VIO-32	7.5mm Fluted Acorn
VIO-38	9.2mm Fluted Acorn
VIO-LS9-5	4.7mm x 20mm Fluted Drum
VIO-9-5	5.6mm Fluted Drum
VIO-9	6.4mm Fluted Drum
VIO-LS9-76	7.6mm x 28.6mm Fluted Drum
VIO-47	6.2mm Fluted Bell Shape (Side Cut Only)
VIO-27	6.4mm x 4.8mm Fluted Drum (Side Cut Only)
VIO-10	9.5mm Fluted Drum
VIO-98B	9.5mm Boring Tool
VIO-98C	10.8mm Coring Tool
VIO-97B	12.6mm Boring Tool
VIO-97C	13.5mm Coring Tool
VIO-99B	15.6mm Boring Tool
VIO-99C	16.8mm Coring Tool
VIO-14	25.4mm Diamond Disc

Black Max Standard Attachments and Cutting Burrs

ВМ

Straight Attachments



B-BLUE-S 11.25cm Attachment

BLU-3	3mm Fluted Ball
BLU-4	4mm Fluted Ball
BLU-5	5mm Fluted Ball
BLU-6	6mm Fluted Ball
BLU-7	7mm Fluted Ball
BLU-7-9	9mm Fluted Ball
BLU-17-1	1mm Diamond Ball
BLU-17-2	2mm Diamond Ball
BLU-17-3	3mm Diamond Ball
BLU-17-4	4mm Diamond Ball
BLU-17-5	5mm Diamond Ball
BLU-17-6	6mm Diamond Ball
BLU-1	1.85mm x 16mm Fluted Router
BLU-2XL	3.05mm x 38.2mm Fluted Router
BLU-2S-25	2.8mm x 22mm Fluted Spiral Router
BLU-40-55	5.5mm x 10mm Fluted Oval
BLU-8-18	1.8mm Fluted Matchstick
BLU-8	3mm Fluted Matchstick
BLU-8-M	3mm Fluted Matchstick (less aggressive)
BLU-8D-32	3.2mm Diamond Matchstick
BLU-8D-32C	3.7mm Coarse Diamond Matchstick
BLU-39	5mm Fluted Acorn
BLU-24	6mm Fluted Acorn

BLU-32	7.5mm Fluted Acorn
BLU-38	9.2mm Fluted Acorn
BLU-47	6.2mm Fluted Bell (Side Cut Only)
BLU-9-5	5.6mm Fluted Drum
BLU-9-68	6mm x 8mm Fluted Drum
BLU-9	6.4mm Fluted Drum
BLU-10	9.5mm Fluted Drum
BLU-11	12.7mm Fluted Drum
BLU-9DCX	6.8mm x 10.6mm Extra Coarse Diamond Drum
BLU-27	6.4mm x 4.8mm Fluted Drum (Side Cut Only)
BLU-CS5	5mm x 14mm Fluted Drum (Side Cut Only)
BLU-CS6	6mm x 14mm Fluted Drum (Side Cut Only)
BLU-CS7	7mm x 14mm Fluted Drum (Side Cut Only)
BLU-CS8	8mm x 14mm Fluted Drum (Side Cut Only)
BLU-CS9	9mm x 14mm Fluted Drum (Side Cut Only)
BLU-CS10	10mm x 14mm Fluted Drum (Side Cut Only)
BLU-LS9-35	3.5mm x 19.8mm Fluted Drum
BLU-LS9-5	4.7mm x 20mm Fluted Drum
BLU-LS9-5E	4.7mm x 20mm Fluted Drum (Side Cut Only)
BLU-LS9-76	7.6mm x 28.6mm Fluted Drum
BLU-14	25.4mm Diamond Disc
BLU-51	6.4mm Fluted Cylindrical Carbide
BLU-97B	12.6mm Boring Tool



B-TURQ-L

12.6cm Tapered Attachment

3mm Fluted Ball
4mm Fluted Ball
5mm Fluted Ball
6mm Fluted Ball
7mm Fluted Ball (extends 8.9mm)
1mm Diamond Ball
2mm Diamond Ball
3mm Diamond Ball
4mm Diamond Ball
5mm Diamond Ball
6mm Diamond Ball
1mm Coarse Diamond Ball
2mm Coarse Diamond Ball
3mm Coarse Diamond Ball
4mm Coarse Diamond Ball
5mm Coarse Diamond Ball
6mm Coarse Diamond Ball

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



B-BLACK 19cm Attachment

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

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



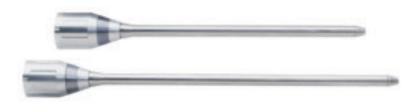
B-RED 26.65cm Attachment

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

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

Minimally Invasive Attachments (MIA)

B-GREY-MIA16



B-GREY-MIA20

16cm MIA

GREY-MIA16-3	3mm Fluted Ball	GREY-MIA
GREY-MIA16-4	4mm Fluted Ball	GREY-MIA
GREY-MIA16-17-2	2mm Diamond Ball	GREY-MIA
GREY-MIA16-17-3	3mm Diamond Ball	GREY-MIA
GREY-MIA16-17-2C	2mm Coarse Diamond Ball	GREY-MIA
GREY-MIA16-17-3C	3mm Coarse Diamond Ball	GREY-MIA
GREY-MIA16-17-4C	4mm Coarse Diamond Ball	GREY-MIA
GREY-MIA16-17-75C	7.5mm Coarse Diamond Ball	GREY-MIA
GREY-MIA16-8	3mm Fluted Matchstick	GREY-MIA

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

20cm MIA

Black Max Standard Attachments and Cutting Burrs

ВМ

Craniotomes



B-TURQ-X	Pediatric Craniotome

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



Also available as a rotating attachment (B-GOLD-R)

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



B-GREEN Standard Craniotome

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

B-GREEN-R Rotating Green Craniotome

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

Specialty Attachments



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

GREY-471-25	1.0mm Drill for 1.25mm Screw
GREY-471-50	1.1mm Drill for 1.5mm Screw
GREY-471-50M	1.47mm Drill for 1.5mm Macropore Pin
GREY-471-70	1.3mm Drill for 1.7mm Screw
GREY-472-00	1.55mm Drill for 2.0mm Screw

B-TURQ-CDA

Adjusts 1mm-4mm increments

7.7cm Controlled Depth Attachment (CDA)

TURQ-1 1.4mm x 12.8mm Fluted Router

Micro Revision Attachments (MRA)



Contra and Right Angles



B-MRA-S	9.4cm Revision Attachment

B-MRA-M	16.5cm Revision Attachment

B-MRA-L	22cm Revision	Attachment

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

B-ORANGE-45 Multiple Angle

B-ORANGE-90 90° Right Angle Attachment

ORNG-35	2.3mm Fluted Ball	
ORNG-36	2.9mm Fluted Ball	
ORNG-1	11.1mm Fluted Router	
ORNG-8-18	1.8mm Fluted Matchstick	
ORNG-8-23	2.3mm Fluted Matchstick	
ORNG-33	10.5mm Small Bone Burr	
ORNG-1275	1.2mm x 7.5mm Twist Drill	
ORNG-37	1.8mm Fluted Drum	

Angle Attachments and Cutting Burrs

XM MM BM EM

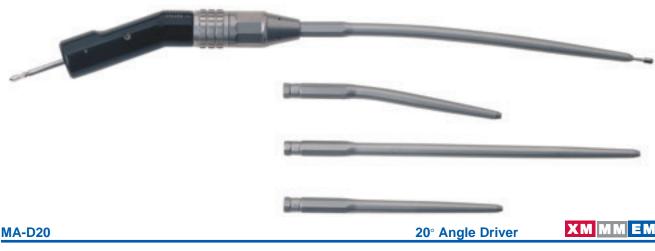
Minimal Access Attachments

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 Drivers provide direct connection to all Anspach pneumatic and electric motor systems. The drivers also 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 distal tip. Additionally, the bearing sleeves can be indexed radially in eight positions and telescoped 3mm to offer the greatest flexibility for visualization during dissection.



MA-D20BM 20° Angle Driver BM

MA-15S			Bearing Sleeve, 15cm Straight
MA-15C			Bearing Sleeve, 15cm Curved
MA15-2SB	2mm Fluted Ball, 15cm	MA15-4D	4mm Diamond Ball, 15cm
MA15-3SB	3mm Fluted Ball, 15cm	MA15-8NSDC	3mm Coarse Diamond Matchstick, 15cm
MA15-15SD	1.5mm Standard Diamond Ball, 15cm	MA15-8N-18	1.8mm Fluted Matchstick, 15cm
MA15-2SD	2mm Diamond Ball, 15cm	MA15-8N	2.3mm Fluted Matchstick, 15cm
MA15-3SD	3mm Diamond Ball, 15cm	MA15-8NS	3mm Fluted Matchstick, 15cm

MA-10S		Bearing Sleeve, 10cm Straight
		Bearing Sleeve, 10cm Curved
1mm Fluted Ball, 10cm	MA10-3SD	3mm Diamond Ball, 10cm
1.5mm Fluted Ball, 10cm	MA10-4D	4mm Diamond Ball, 10cm
2mm Fluted Ball, 10cm	MA10-8N-18	1.8mm Fluted Matchstick, 10cm
2.5mm Fluted Ball, 10cm	MA10-8N	2.3mm Fluted Matchstick, 10cm
3mm Fluted Ball, 10cm	MA10-8NS	3mm Fluted Matchstick, 10cm
2mm Diamond Ball, 10cm	MA10-8NSDC	3mm Coarse Diamond Matchstick, 10cm
	1.5mm Fluted Ball, 10cm 2mm Fluted Ball, 10cm 2.5mm Fluted Ball, 10cm 3mm Fluted Ball, 10cm	1.5mm Fluted Ball, 10cm MA10-4D 2mm Fluted Ball, 10cm MA10-8N-18 2.5mm Fluted Ball, 10cm MA10-8N 3mm Fluted Ball, 10cm MA10-8NS

Angle Attachments and Cutting Burrs

XM MM BM EM

Quick Disconnect (QD) Angle Attachments

All QD angle cutting burrs are standard length, which extend approximately 16mm from the distal end of the attachment.



QD8		8cm A	Angle Attachment XM MM EM
B-QD8			8cm Angle Attachment BM
QD8-05B	0.5mm Fluted Ball	QD8-2SDC	2mm Coarse Diamond Ball
QD8-1SB	1mm Fluted Ball	QD8-25SDC	2.5mm Coarse Diamond Ball
QD8-15SB	1.5mm Fluted Ball	QD8-3SDC	3mm Coarse Diamond Ball
QD8-2SB	2mm Fluted Ball	QD8-35SDC	3.5mm Coarse Diamond Ball
QD8-25SB	2.5mm Fluted Ball	QD8-4DC	4mm Coarse Diamond Ball
QD8-3SB	3mm Fluted Ball	QD8-5DC	5mm Coarse Diamond Ball
QD8-4B	4mm Fluted Ball	QD8-6DC	6mm Coarse Diamond Ball
QD8-5B	5mm Fluted Ball	QD8-4DX	4mm Extra Coarse Diamond Ball
QD8-6B	6mm Fluted Ball	QD8-5DX	5mm Extra Coarse Diamond Ball
QD8-7B	7mm Fluted Ball	QD8-6DX	6mm Extra Coarse Diamond Ball
QD8-05SD	0.5mm Diamond Ball	QD8-1R	1.4mm x 12.8mm Fluted Router
QD8-1SD	1mm Diamond Ball	QD8-40V	4mm x 8mm Fluted Oval
QD8-15SD	1.5mm Diamond Ball	QD8-40VD	4mm x 8mm Diamond Oval
QD8-2SD	2mm Diamond Ball	QD8-50V	5mm x 10mm Fluted Oval
QD8-2SD-120	2mm Diamond Ball, 100/140 Grit	QD8-8N-18	1.8mm Fluted Matchstick
QD8-25SD	2.5mm Diamond Ball	QD8-8N	2.3mm Fluted Matchstick
QD8-3SD	3mm Diamond Ball	QD8-8NS	3mm Fluted Matchstick
QD8-3SD-100	3mm Diamond Ball, 100/120 Grit	QD8-8ND	2.5mm Diamond Matchstick
QD8-35SD	3.5mm Diamond Ball	QD8-5AC	5mm Fluted Acorn
QD8-4D	4mm Diamond Ball	QD8-6AC	6mm Fluted Acorn
QD8-5D	5mm Diamond Ball	QD8-4DRM	4mm x 8.9mm Fluted Drum (Side Cut Only)
QD8-6D	6mm Diamond Ball	QD8-62DRM	6.2mm x 4.6mm Fluted Drum (Side Cut Only)
QD8-1SDC	1mm Coarse Diamond Ball	QD8-62BE	6.2mm Fluted Bell (Side Cut Only)
QD8-15SDC	1.5mm Coarse Diamond Ball, 120/140 Grit	QD8-5BA	5mm x 10mm Fluted Barrel



QD11 11cm	n Angle Attachment XM MM EM
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B-QD11	
QD11-1SB	1mm Fluted Ball
QD11-2SB	2mm Fluted Ball
QD11-3SB	3mm Fluted Ball
QD11-4B	4mm Fluted Ball
QD11-5B	5mm Fluted Ball
QD11-6B	6mm Fluted Ball
QD11-7B	7mm Fluted Ball
QD11-1SD	1mm Diamond Ball
QD11-2SD	2mm Diamond Ball
QD11-3SD	3mm Diamond Ball
QD11-4D	4mm Diamond Ball
QD11-5D	5mm Diamond Ball
QD11-6D	6mm Diamond Ball
QD11-3SDC	3mm Coarse Diamond Ball
QD11-4DC	4mm Coarse Diamond Ball
QD11-5DC	5mm Coarse Diamond Ball
QD11-6DC	6mm Coarse Diamond Ball
QD11-4DX	4mm Extra Coarse Diamond Ball
QD11-5DX	5mm Extra Coarse Diamond Ball
QD11-6DX	6mm Extra Coarse Diamond Ball
QD11-7DX	7mm Extra Coarse Diamond Ball

QD11-1R	1.4mm x 12.8mm Fluted Router
QD11-40V	4mm x 8mm Fluted Oval
QD11-4OVD	4mm x 8mm Diamond Oval
QD11-40VDC	4mm x 8mm Coarse Diamond Oval
QD11-50V	5mm x 10mm Fluted Oval
QD11-8N-18	1.8mm Fluted Matchstick
QD11-8N	2.3mm Fluted Matchstick
QD11-8NS	3mm Fluted Matchstick
QD11-8ND	2.5mm Diamond Matchstick
QD11-8NSDC	3.2mm Coarse Diamond Matchstick
QD11-4AC	4mm Fluted Acorn
QD11-5AC	5mm Fluted Acorn
QD11-6AC	6mm Fluted Acorn
QD11-6P	6mm x 9mm Fluted Pear
QD11-4DRM	4mm x 8.9mm Fluted Drum (Side Cut Only)
QD11-47DRM	4.7mm x 8mm Fluted Drum
QD11-5DRM	5mm x 8.4mm Fluted Drum
QD11-62DRM	6.2mm x 4.6mm Fluted Drum (Side Cut Only)
QD11-5BA-A	5mm x 11.3mm Fluted Barrel
QD11-6BA-A	6mm x 11.3mm Fluted Barrel

11cm Angle Attachment



QD14 14cm Angle Attachment	KM MM	EW
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B-QD14			14cm Angle Attachment	ВМ
QD14-3SB	3mm Fluted Ball	QD14-4DC	4mm Coarse Diamond Ball	
QD14-4B	4mm Fluted Ball	QD14-5DC	5mm Coarse Diamond Ball	
QD14-5B	5mm Fluted Ball	QD14-6DX	6mm Extra Coarse Diamond Ball	
QD14-6B	6mm Fluted Ball	QD14-40V	4mm x 8mm Fluted Oval	
QD14-1SD	1mm Diamond Ball	QD14-1R	1.4mm x 12.8mm Fluted Router	
QD14-2SD	2mm Diamond Ball	QD14-8N-18	1.8mm Fluted Matchstick	
QD14-3SD	3mm Diamond Ball	QD14-8N	2.3mm Fluted Matchstick	
QD14-4D	4mm Diamond Ball	QD14-8NS	3mm Fluted Matchstick	
QD14-5D	5mm Diamond Ball	QD14-8ND	2.5mm Diamond Matchstick	
QD14-6D	6mm Diamond Ball	QD14-47DRM	4.7mm x 8mm Fluted Drum	
	·			

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 motor systems. 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 motor system.

PERFORMANCE SPECIFICATION

OSCILLATING AND SAGITTAL SAW Speed: 12,000cpm

Arc:

RECIPROCATING SAW

Speed: 12,000cpm Axial Travel: .1 in (2.5 mm)



DRIVER Keyless Driver





BM-DRIVER

Keyless Driver BM





O-SAW

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

Oscillating microSaw Attachment

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



R-SAW

MR-0500	6.9mm, 9th/cm Recip. Micro Blade
MR-0520	22.9mm, 9th/cm Recip. Micro Blade
MR-0540	25.1mm, 14th/cm Recip. Micro Blade

Reciprocating microSaw Attachment

MR-0560	15mm, 13th/cm Recip. Micro Blade	
MR-0600	25.4mm, 9th/cm Recip. Micro Blade	



S-SAW

Sagittal microSaw Attachment

MS-3101	25.5mm x 9.5mm Sag. Micro Blade	MS-3106	25.5mm x 5.5mm Sag. Micro Blade
MS-3102	25.5mm x 4.5mm Sag. Micro Blade	MS-3108	34mm x 4mm Sag. Micro Blade
MS-3104	15.2mm x 9.5mm Sag. Micro Blade	MS-3101C	25.5mm x 9.5mm Coarse Sag. Micro Blade

Sagittal Saws

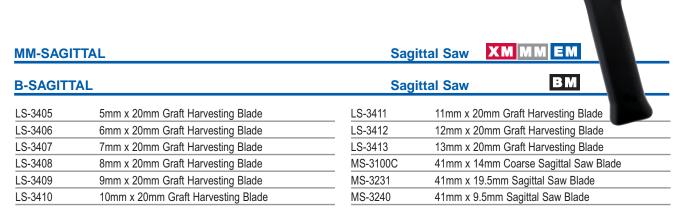
The Sagittal Saws assure precise and smooth cutting in a wide range of procedures. The MM-SAGITTAL and B-SAGITTAL operate at 120 psi, providing 20,000 cycles per minute while it oscillates through a blade arc of 4 degrees. The E-SAGITTAL is self-powered and connects directly to the SC2000, the eMax 2 System Console.



MANSPACH

E-SAGITTAL

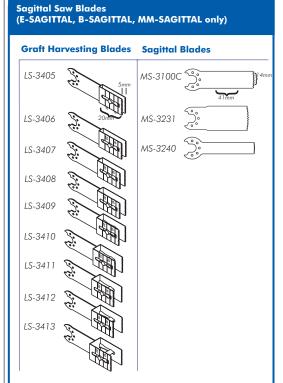
High Powered Electric Sagittal Saw



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.



Micro Sagittal Saw Blades S-SAW)	Micro Oscillating Saw Blades (O-SAW)	Micro Reciprocating Saw Blades (R-SAW)
MS-3101	MO-3001	MR-0500
MS-3101C 🕽 🔭	MO-3002	MR-0520
MS-3102	MO-3003	MR-0540
MS-3104	MO-3005 💸	MR-0560
MS-3106	MO-3006	MR-0600
MS-3108		

Additional Surgical Instruments and Accessories



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-BX

Bone Collectors (Qty. 12)

Chuck Driver System

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

C-SYSTEM

BC-SYSTEM

Chuck Driver System

Chuck Driver System

BM



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.

CSRSC

Storage Cover, Drive Shaft Protector Replacement

CSR60 BM

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

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

ВМ

Storage Cover, Drive Shaft Protector Replacement CSRSC-BM

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









BM-COUPLER Coupler for Black Max Motor

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 Otology & Neurotology, NYU Medical Center, for his valuable contributions to Anspach and the Directional Suction Irrigator.

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

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

Jobe Shoulder Instruments

Jobe Shoulder Instrumentation includes all of the following items.



JSI

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)

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

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

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)	

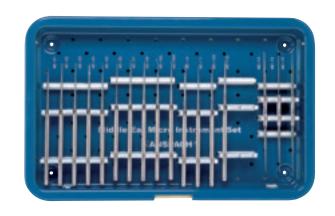


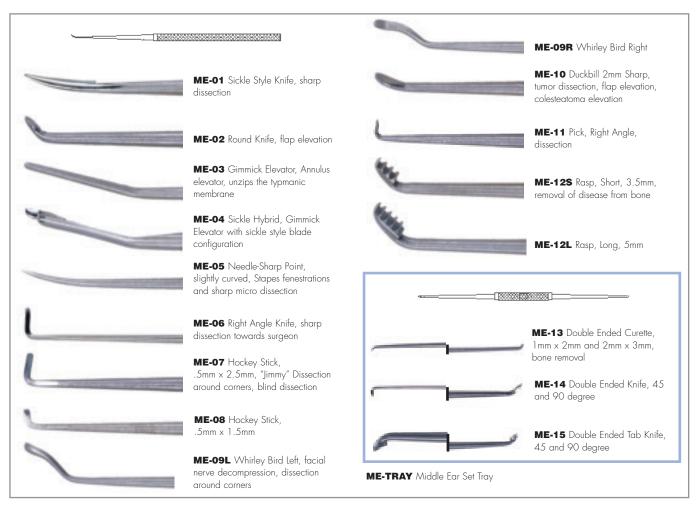
Additional Surgical Instruments and Accessories

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, Otology/Neurotology/Skull Base Surgery Oregon Health & Science University, for his valuable contributions to Anspach and the Middle Ear Micro Instrument Set.





Multiple Outlet Manifold and Hoses

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

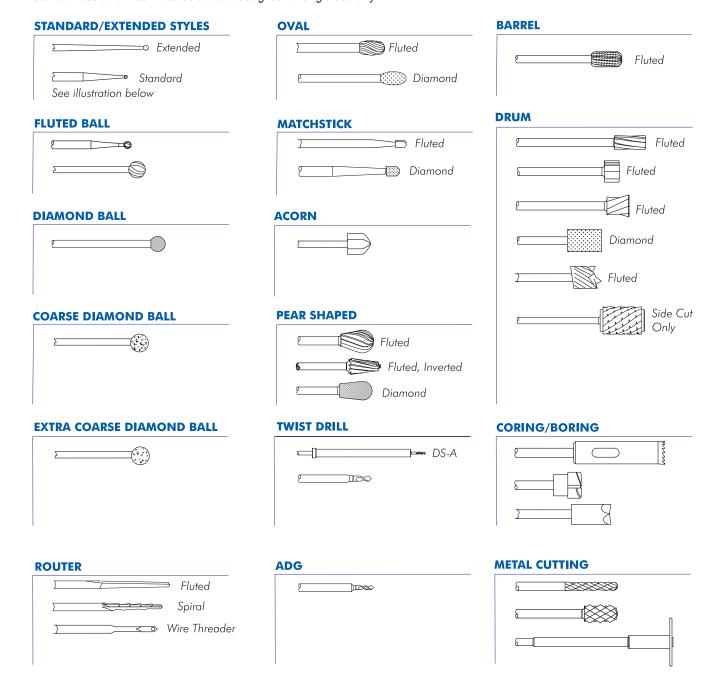
*C-Clamp and Extension Hose may be added to any MOM unit intended for use with O.R. wall outlets.

HOSE-DISS	10 Inch 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

Cutting Burr Styles



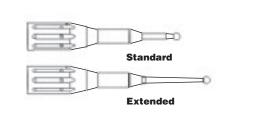
Cutting burrs are pictured for head styles only. Please refer to your cutting burr chart for available lengths and additional detail. All cutting burrs are supplied sterile unless otherwise indicated and are designed for single use only.



STANDARD AND EXTENDED STYLES

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

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





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Black Max® U.S. Patent Numbers RE 37,358; 5,427,203; 5,458,375; 5,494,359; 5,494,501; 5,496,219; 5,601,560; 5,741,084; 6,746,153 and 6,749,341. XMax® U.S. Patent Numbers RE 37,358; 5,492,203; 5,458,375; 5,494,359; 5,494,359; 5,494,359; 5,494,359; 5,494,359; 5,501,560; 6,746,153 and 6,749,341. microMax U.S. Patent Numbers RE 37,358; 5,427,203; 5,458,375; 5,494,359; 5,601,560; 6,746,153 and 6,749,341. eMax® and eMax 2 U.S. Patent Numbers RE 37,358; 5,494,359; 5,601,560; 6,746,153 and 6,749,341. Cutting Burrs U.S. Patent Numbers RE 37,358; 5,405,348; 5,601,560; 5,904,687 and 6,607,533. Minimal Access Attachment U.S. Patent Numbers RE 37,358; 5,405,348; 5,494,359; 5,601,560; and 6,749,341. Additional U.S. and International patents pending.

