
MIDAS REX™ MR8™
HIGH SPEED
DRILL SYSTEM
Advancing
surgical possibilities
Medtronic
Further, Together

MR8™ electric and electric plus motors

Multifunction FCU

Note: Conduct a system check by pressing the foot pedal to briefly run the motor and confirm proper function prior to any procedure. If motor overheats, discontinue use of the motor.

Important: By default, the FCU is activated by pressing the corresponding button for at least 100 milliseconds (mS). Use the IPC™ system touch screen settings screen to change the default value.

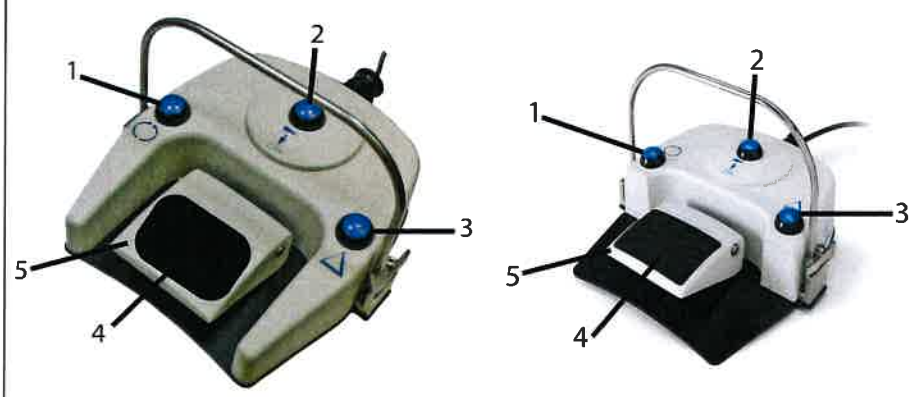
To use the multifunction FCU (Figure 9) to control the motor, do the following:

- To select FWD or REV mode, press the mode button (Figure 9, Number 1).
- To change the motor, press the motor button (Figure 9, Number 2).
- To toggle between the start/stop mode and variable speed mode, press the control button (Figure 9, Number 3).
  Note: Functionality of the control button may be changed in the motor Defaults menu to pause irrigation. Refer to **Change System Settings**, in the **Pre-Operating** instructions section of the **IPC™ User's Guide**.
- To start or adjust the speed of a motor in variable mode, press the foot pedal (Figure 9, Number 5).

Cleaning the FCU

For cleaning instructions refer to the section, **Clean the FCU**, in the **Cleaning and sterilization** section of the **Integrated Power Console (IPC™) System User's Guide**.

9 **Multifunction FCUs**



1. Mode button
2. Motor button
3. Control button
4. Slip-resistant food pad
5. Foot pedal

Technical specifications and performance characteristics

Table 1: MR8™ electric motor technical specifications and performance characteristics

MR8™ electric motor (EM800)

Size	Weight	Speed	Duty cycle for applied part
Length: 9.73 cm (3.83 in) x Diameter: 1.55 cm (0.61 in) Length of motor cable: 460 cm (181 in)	87 grams	FWD/REV, variable speed of 200–75,000 rpm	For operating room temperatures up to 40°C (104°F), the electric motor is rated for 3 minutes (03:00) of continuous cutting time at 75,000 rpm, followed by 25 minutes (25:00) of rest.
			For normal operating room temperatures (typically 20°C/68°F), the electric motor is rated for continuous cutting at 75,000 rpm.

Table 2: MR8™ electric plus motor technical specifications and performance characteristics

MR8™ electric plus motor (EM850)

Size	Weight	Speed	Duty cycle for applied part
Length: 9.73 cm (3.83 in) x Diameter: 2.10 cm (0.83 in) Length of motor cable: 460 cm (181 in)	171 grams	FWD/REV, variable speed of 200–75,000 rpm	For operating room temperatures up to 40°C (104°F), the electric plus motor is rated for 3 minutes (03:00) of continuous cutting time at 75,000 rpm, followed by 25 minutes (25:00) of rest.
			For normal operating room temperatures (typically 20°C/68°F), the electric plus motor is rated for continuous cutting at 75,000 rpm.

ACCESS /
CLOSURE

THE POWER
TO DO MORE

THE INTEGRATED POWER CONSOLE (IPC®) PLATFORM

Inspired by listening to your needs, the IPC® platform delivers maximum torque and ease of use. It's the first multispecialty powered surgery console from Medtronic for cranial, spine, and ENT. Our innovative IPC system drives more handpieces with more power than ever before.

IntelliFlow™ irrigation remote control

Legend EHS Stylus® motor delivers >50% more torque

Color coded connectors for ease of use

Helpful graphics for each handpiece

Easy-to-use touchscreen

Connect up to four handpieces at once

1.6

MR8™ electric motors

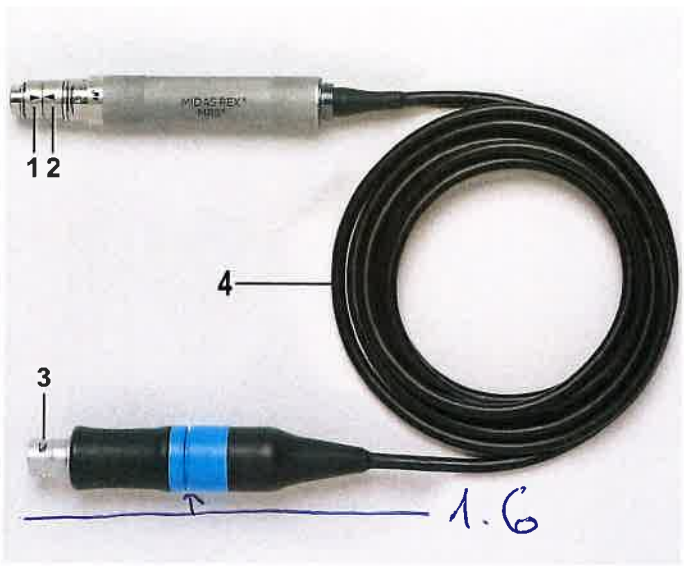
The electric motor (Figure 6) is a smaller and more compact version of the electric plus motor (Figure 7). The electric touch motor (Figure 8) is a small compact motor that includes a rotating and removable finger lever.

The electric motors are high-speed, high-torque, reversible electric motors used to dissect bone and biomaterial at selectable speeds from 200 to 75,000 rpm. These motors are designed to interface with a series of interchangeable attachments and dissecting tools utilizing a standard locking mechanism. The electric motors provide the power to operate disposable surgical dissecting tools, intended for use in various surgical procedures.

The electric motors can be controlled either by using the FCU or through the finger lever. The finger-controlled electric motors operate in the same manner as the foot-controlled electric motors. Pressing the finger lever increases the speed and lifting off of the finger lever reduces the speed to a stop. The electric motors are reusable devices that are supplied non-sterile and require cleaning and sterilization prior to each surgical use.

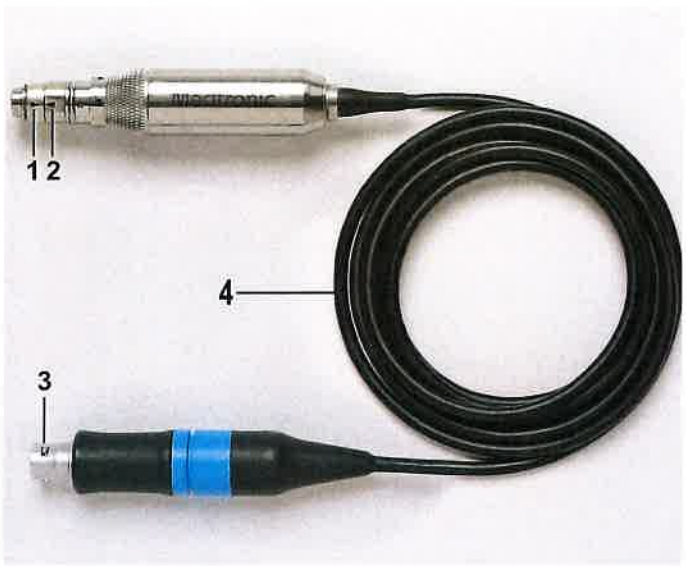
Note: All motor cables are integrated and cannot be removed from the motor.

6 **MR8™ electric motor**



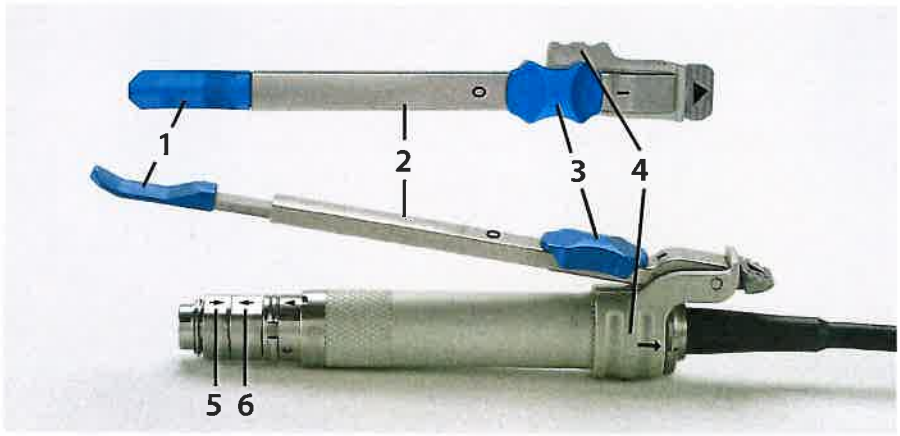
1. Motor collet - Stationary
2. Motor collet - Rotating
3. 12-pin cable connector
4. Motor cable

7 **MR8™ electric plus motor**



1. Motor collet - Stationary
2. Motor collet - Rotating
3. 12-pin cable connector
4. Motor cable

8 **MR8™ electric touch motor**



1. Telescoping finger rest
2. Finger lever
3. Motor safe mode switch
4. Control lever ring
5. Motor collet - Stationary
6. Motor collet - Rotating

4

Use

The following instructions for the electric motors are in addition to the general assembly instructions found in the **Integrated Power Console (IPC™) System User's Guide**. To obtain a copy of the **IPC™ System User's Guide**, please contact Medtronic or your local distributor.

Use an IPC™ system that has software version V2.7.4.0 or later, or update the IPC™ system to the latest software by contacting your Medtronic Neurosurgery Group sales representative. If outside the USA, contact your Medtronic regional distributor or Medtronic Neurosurgery Group sales representative.

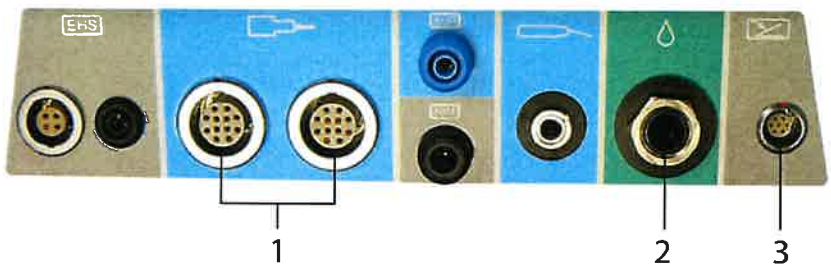
Connection to IPC™ system

Locate the motor and FCU ports on the IPC™ system connector panel (Figure 1) and insert the multi-pin connector into either of the two motor ports provided.

Note: Prior to use, check for bent or missing pins in the cable connectors.

Note: To insert multi-pin connectors (indicated by a silver or red mark on the connector), align the mark on the connector to the mark on the console, then insert the connector.

1 **IPC™ system connector panel for the MR8™ system**



1. Electric, electric plus, and electric touch motors
2. Intelliflow irrigation remote control
3. FCU

IPC™ system pump detection

The IPC™ system incorporates the electric, electric plus, and electric touch motor irrigation tubing sets at Pump 1. If you do not use irrigation for the motors, manually change Pump 1 to **None**. Refer to the **Integrated Power Console (IPC™) System User's Guide, Set up and Prime Pumps** for more information.

When the IPC™ system detects the electric or electric plus motor, Pump 2 defaults to **None**.

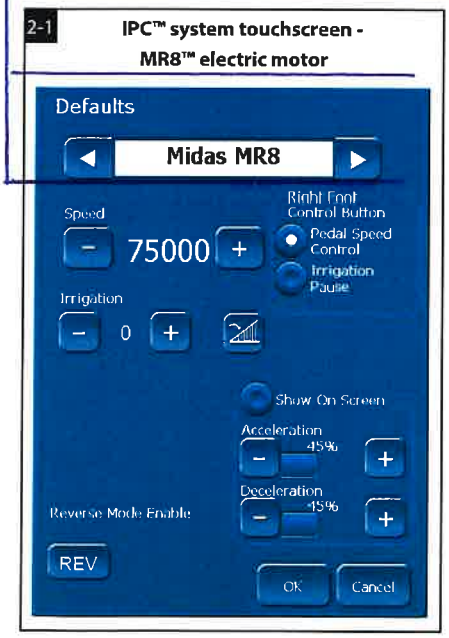
When the IPC™ system detects both the electric and the electric plus motor, the system defaults Pump 2 to the Shared configuration. Use the pumps screen to override the Shared default by selecting the electric motor for Pump 1. Refer to the **Integrated Power Console (IPC™) System User's Guide, Set up and Prime Pumps** for more information.

Control the operation of the electric, electric plus and electric touch motors with the IPC™ system touchscreen and the multifunction FCU.

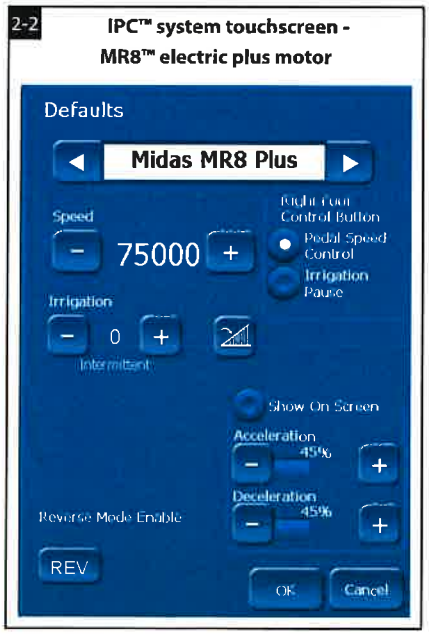
IPC™ system touchscreen controls

To set or adjust the electric (Figure 2-1), the electric plus (Figure 2-2), or electric touch (Figure 2-3) motor controls, on the IPC™ system touchscreen:

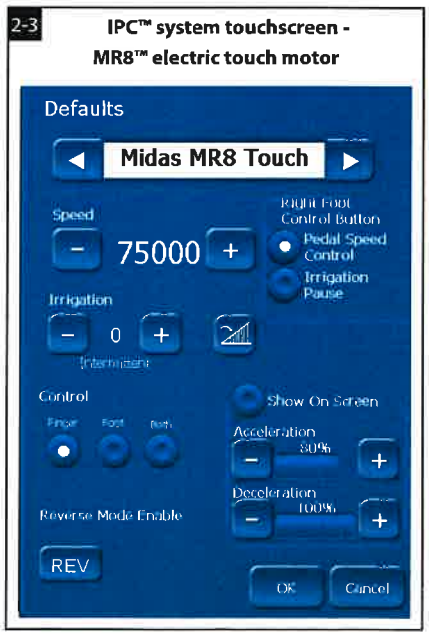
2-1 **IPC™ system touchscreen - MR8™ electric motor**



2-2 **IPC™ system touchscreen - MR8™ electric plus motor**



2-3 **IPC™ system touchscreen - MR8™ electric touch motor**



In the touchscreen control box, adjust or set motor speed, irrigation flow rate, motor acceleration/deceleration, motor rotation, and SAFE mode option.

INTERPRETING PRODUCT NUMBERS FOR ATTACHMENTS

EXPLANATION OF CODING

MR8 - [A] [V] [S] [1] [4] [ ] [ ] [ ] [ ]

PART
- A ..... ATTACHMENT
- AV ..... VARIABLE EXPOSURE ATTACHMENT
- T ..... TUBE

ATTACHMENT TYPE
- A ..... ANGLED
- D ..... DRIVER
- F ..... FOOTED
- S ..... STRAIGHT
- T ..... TELESCOPING

LENGTH
- 07 ..... 7.0 cm
- 09 ..... 9.0 cm
- 10 ..... 10.0 cm
- 12 ..... 12.0 cm
- 14 ..... 14.0 cm
- 15 ..... 15.0 cm
- 18 ..... 18.0 cm
- 21 ..... 21.0 cm
- 26 ..... 26.0 cm

TELESCOPING TUBE LENGTH
- 12 ..... 12.0 cm
- 14 ..... 14.0 cm
- 15 ..... 15.0 cm
- 18 ..... 18.0 cm

DRIVER RPM
- 03 ..... 1000 RPM

FOOTED
- 01 ..... PEDIATRIC
- 02 ..... ADULT
- 03 ..... LARGE

OPTIONAL DESCRIPTOR
- AMIS ..... ANGLED MIS
- CMIS ..... CURVED MIS
- DK ..... DOUBLE LOCKING
- H ..... HOODED
- MC ..... METAL CUTTING
- MIS ..... MINIMALLY INVASIVE SURGERY
- R ..... ROTATING

EXAMPLES

TUBE / TELESCOPING / 12.0 cm LONG / CURVED

MR8 - [ ] [T] [T] [1] [2] [C] [M] [I] [S]

ATTACHMENT / ANGLED / 7.0 cm LONG / DOUBLE LOCKING

MR8 - [ ] [A] [A] [0] [7] [D] [K] [ ] [ ]

ATTACHMENT TYPES AND DESCRIPTIONS

STRAIGHT ATTACHMENTS
Fixed straight attachments for general use.

ANGLED ATTACHMENTS
Designed for improved visibility under a microscope.

VARIABLE EXPOSURE ATTACHMENTS
They vary dissecting tool exposure for optimal visibility. Adjustable in 1mm increments up to 10mm for small bore attachments and 12mm for large bore attachments.**

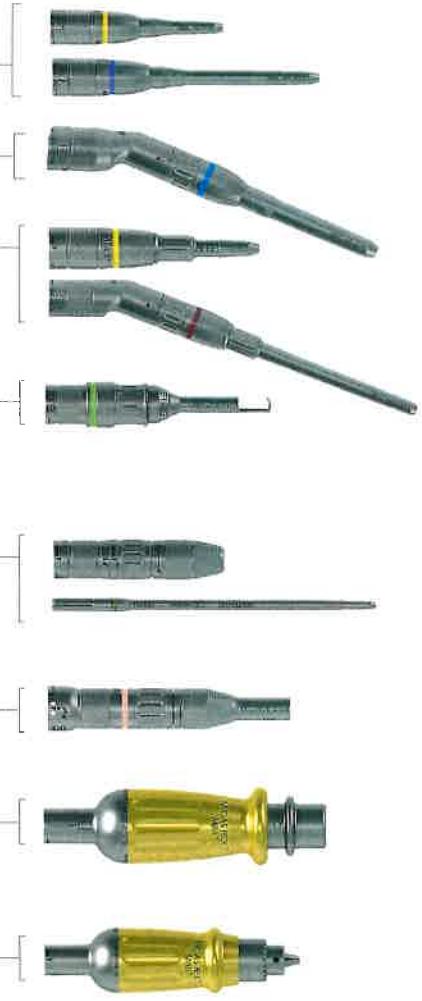
FOOTED ATTACHMENTS
Ideal for craniotomies. The design allows use of tools for unidirectional cutting with control of depth. The rotating footed attachments AF01R and AF02R allow for more maneuverability.

TELESCOPING ATTACHMENTS AND TUBES
These are ideal for minimally invasive approaches and tight spaces providing reach and visibility. From 12 to 18cm lengths are available in angled, straight or curved. Hooded option may be used as a retractor.

METAL CUTTING ATTACHMENTS
They accommodate tungsten carbide or diamond tools for the transection of metals, bioceramics and other biomaterials.

PERFORATOR DRIVER
It has a Hudson Chuck to drive only devices with a Hudson Shank, i.e. Cranial Perforator Device. Device speed equal to 1035 rpm.

JACOBS CHUCK
The attachment is a non-cannulated 4.0mm chuck with key for drilling.



** (7cm attachments can only increase exposure up to 8mm)

SURGICAL TECHNIQUE

OTHER TIPS

The drill can cut or tear the dura mater when it unlocks. Check some conditions before performing the procedure, such as the existence of adhering dura mater, high intracranial pressure, or other anomalies adjacent to the drilling site.

- Do not use the drill in a hole or an area that has already been drilled, or the surrounding areas. The composition of reconstructed bone differs from that of healthy bone, increasing the risk of unwanted breakage. Leave a minimum spacing of 15 mm from one hole to another.
- It is essential to keep the drill perpendicular (90°) at the predetermined point of the skull to be drilled, as an excessive deviation from perpendicularity may cause the product to fail and lead to serious patient injury. The perforator can nick or tear the dura or brain if not held at a 90° angle to the skull.
- Select a drill bit suitable for the bone thickness according to the table below. This prevents the drill from tearing the bone or brain tissue (similar effect when the bit is not positioned at 90°).
- Take extra care with the pressure applied when drilling the skull of infants, children, and the elderly or pathological bone.

ORDERING INFORMATION

Item #	Colour	Outer Diam.	Inner Diam.	Shelf	Minimum Bone Thickness
DM0008FAA		9.0 mm	6.0 mm	3.0 mm	3.25 mm
DM0011FAA		11.0 mm	7.0 mm	3.0 mm	3.25 mm
DM0210FAA		14.0 mm	11.0 mm	1.5 mm	1.75 mm
DM0010FAA		14.0 mm	11.0 mm	3.0 mm	3.25 mm

Item #	Description
*AD03	Midas Rex® Perforator Driver Attachment Manufactured by Medtronic

2.2

Medtronic

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Manufactured by:
MICROMAR
Distributed by Medtronic

Rx only. Refer to product instruction manual/package insert for instructions, warnings, precautions and contraindications.

For more information, contact your Medtronic Neurosurgery sales representative or refer to www.MedtronicNeurosurgery.com.

For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

www.medtronic.eu

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Jacobs chuck attachments

The Jacobs chuck attachment is a non-cannulated, 5/32" chuck with key for drilling.

Note: A drill bit may be installed in the attachment before the Jacobs chuck attachment is installed on the motor.

Assembly

1. Slide the attachment over the motor collet aligning the triangular markers (Figure 26-1). An audible click, heard and perceptible by touch, confirms that the attachment is fully seated.
2. Rotate the attachment to the locked position (Figure 26-2).
3. To install a drill bit, rotate the Jacobs chuck key counterclockwise to open the jaw (Figure 26-3).
4. Insert the drill bit and rotate the Jacobs key clockwise to tighten the jaws until the drill bit is secure.

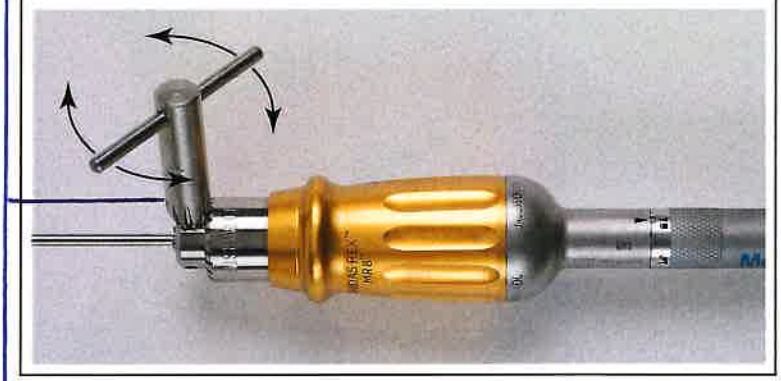
Disassembly

To open the jaws, turn the Jacobs chuck key counterclockwise. Remove and discard the drill bit. Rotate the Jacobs chuck attachment to the unlocked position and lift the attachment off of the motor.

26-1 **Jacobs chuck attachment assembly**

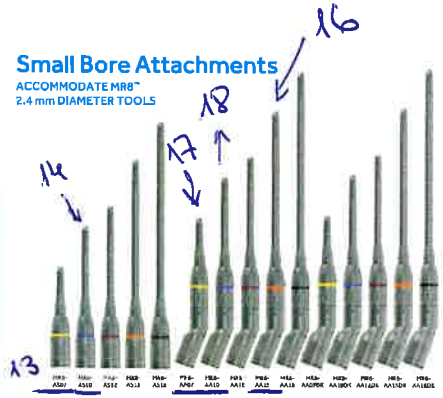
26-2 **Jacobs chuck attachment assembly**

26-3 **Jacobs chuck attachment assembly**



Small Bore Attachments

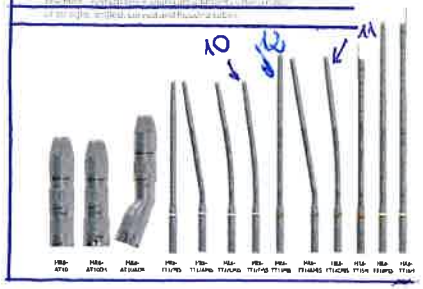
ACCOMMODATE MR8™
2.4 mm DIAMETER TOOLS



Large Bore Attachments

ACCOMMODATE MR8™
3.2 mm DIAMETER TOOLS

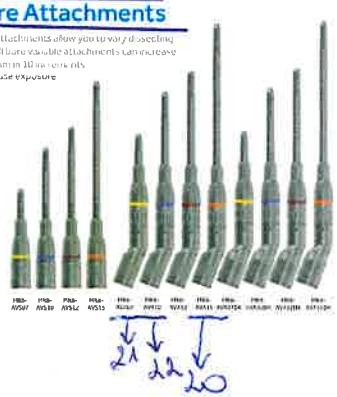
Telescoping Attachments



Footed Attachments

Small Bore Variable Exposure Attachments

Variable exposure attachments allow you to vary the cutting tool exposure. Small bore variable attachments can increase exposure up to 10mm in 10 micron increments.



Large Bore Variable Exposure Attachments

Large bore variable exposure attachments can increase exposure up to 12mm in 12 micron increments.

Perforator Driver and Jacobs™ Chuck

The Perforator Driver has a Hudson shank and is used to drive any device with a Hudson shank. The Jacobs Chuck attachment has a non-cannulated 5/32" chuck.

J-Latch

Metal Cutting Attachments

TOOL OFFERINGS LISTED BY ATTACHMENT

MR8-AF01	Footed Attachment	
MR8-AF01R	Footed Attachment - Rotating	
Tapered - 1.5 mm		MR8-F1/7TA15
Tapered Spiral - 1.5 mm		MR8-F1/7TA15S
MR8-AF02	Footed Attachment	
MR8-AF02R	Footed Attachment - Rotating	
Tapered - 2.3 mm		MR8-F2/7TA23
Tapered Spiral - 2.3 mm		MR8-F2/7TA23S
MR8-AF03	Footed Attachment	
Tapered - 3.0 mm		MR8-F3/9TA30
SPEED RUN		
MR8-AS07	Straight Attachment 7 cm	
MR8-AA07	Angled Attachment 7 cm	
MR8-AA07DK	Angled Double Lock Attachment 7 cm	
MR8-AV507	Straight Variable Attachment 7 cm	
MR8-AVA07	Angled Variable Attachment 7 cm	
MR8-AVA07DK	Angled Variable Double Lock Attachment 7 cm	
Acorn - 5 mm		MR8-7AC50
Acorn - 6 mm		MR8-7AC60
Ball Long - 0.5 mm		MR8-7BA05L
Ball Long Diamond - 0.6 mm		MR8-7BA06DL
Ball Long Diamond - 0.8 mm		MR8-7BA08DL
Ball - 1 mm		MR8-7BA10
Ball Carbide - 1 mm		MR8-7BA10C
Ball Fine - 1 mm		MR8-7BA10F
Ball Fine Long - 1 mm		MR8-7BA10FL
Ball Long - 1 mm		MR8-7BA10L
Ball Diamond - 1 mm		MR8-7BA10D
Ball Diamond Coarse - 1 mm		MR8-7BA10DC
Ball Diamond Coarse Long - 1 mm		MR8-7BA10DCL
Ball Diamond Fine - 1 mm		MR8-7BA10DF
Ball Diamond Long - 1 mm		MR8-7BA10DL
Ball Diamond Fine Long - 1 mm		MR8-7BA10DFL
Ball Diamond Extra Fine Long - 1 mm		MR8-7BA10DXFL
Ball Diamond Long - 1.2 mm		MR8-7BA12DL
Ball - 1.5 mm		MR8-7BA15
Ball Long - 1.5 mm		MR8-7BA15L
Ball Fine Long - 1.5 mm		MR8-7BA15FL
Ball Fine - 1.5 mm		MR8-7BA15F
Ball Diamond - 1.5 mm		MR8-7BA15D
Ball Diamond Coarse - 1.5 mm		MR8-7BA15DC
Ball Diamond Coarse Long - 1.5 mm		MR8-7BA15DCL
Ball Diamond Fine - 1.5 mm		MR8-7BA15DF
Ball Diamond Long - 1.5 mm		MR8-7BA15DL
Ball Diamond Fine Long - 1.5 mm		MR8-7BA15DFL
Ball Diamond Extra Fine Long - 1.5 mm		MR8-7BA15DXFL
Ball - 2 mm		MR8-7BA20
Ball Carbide - 2 mm		MR8-7BA20C
Ball Fine - 2 mm		MR8-7BA20F
Ball Long - 2 mm		MR8-7BA20L
Ball Fine Long - 2 mm		MR8-7BA20FL
Ball Diamond - 2 mm		MR8-7BA20D
Ball Diamond Coarse - 2 mm		MR8-7BA20DC
Ball Diamond Coarse Long - 2 mm		MR8-7BA20DCL
Ball Diamond Fine - 2 mm		MR8-7BA20DF
Ball Diamond Long - 2 mm		MR8-7BA20DL
Ball Diamond Fine Long - 2 mm		MR8-7BA20DFL
Ball Diamond Extra Fine Long - 2 mm		MR8-7BA20DXFL
Ball - 2.5 mm		MR8-7BA25
Ball Fine - 2.5 mm		MR8-7BA25F
Ball Long - 2.5 mm		MR8-7BA25L
Ball Fine Long - 2.5 mm		MR8-7BA25FL
Ball Diamond - 2.5 mm		MR8-7BA25D
Ball Diamond Coarse - 2.5 mm		MR8-7BA25DC
Ball Diamond Fine - 2.5 mm		MR8-7BA25DF
Ball Diamond Long - 2.5 mm		MR8-7BA25DL
Ball Diamond Fine Long - 2.5 mm		MR8-7BA25DFL
Ball - 3 mm		MR8-7BA30
Ball Symmetri - 3 mm		MR8-7BA30T
Ball Carbide - 3 mm		MR8-7BA30C
Ball Fine - 3 mm		MR8-7BA30F
Ball Long - 3 mm		MR8-7BA30L
Ball Fine Long - 3 mm		MR8-7BA30FL
Ball Diamond - 3 mm		MR8-7BA30D
Ball Diamond Coarse - 3 mm		MR8-7BA30DC
Ball Diamond Coarse Long - 3 mm		MR8-7BA30DCL
Ball Diamond Fine - 3 mm		MR8-7BA30DF
Ball Diamond Long - 3 mm		MR8-7BA30DL
Ball Diamond Fine Long - 3 mm		MR8-7BA30DFL
Ball Diamond Extra Fine Long - 3 mm		MR8-7BA30DXFL
Ball - 3.5 mm		MR8-7BA35
Ball Diamond - 3.5 mm		MR8-7BA35D
Ball Diamond Coarse Long - 3.5 mm		MR8-7BA35DCL
Ball Diamond Long - 3.5 mm		MR8-7BA35DL
Ball Fine Long - 3.5 mm		MR8-7BA35FL
Ball Long - 3.5 mm		MR8-7BA35L
Ball - 4 mm		MR8-7BA40
Ball Carbide - 4 mm		MR8-7BA40C
Ball Diamond - 4 mm		MR8-7BA40D
Ball Diamond Coarse - 4 mm		MR8-7BA40DC
Ball Diamond Coarse Long - 4 mm		MR8-7BA40DCL
Ball Diamond Fine - 4 mm		MR8-7BA40DF
Ball Diamond Fine Long - 4 mm		MR8-7BA40DFL
Ball Diamond Long - 4 mm		MR8-7BA40DL
Ball Diamond Extra Coarse - 4 mm		MR8-7BA40DX
Ball Fine - 4 mm		MR8-7BA40F
Ball Long - 4 mm		MR8-7BA40L
Ball Symmetri - 4 mm		MR8-7BA40T
Ball - 5 mm		MR8-7BA50
Ball Carbide - 5 mm		MR8-7BA50C
Ball Diamond - 5 mm		MR8-7BA50D
Ball Diamond Coarse - 5 mm		MR8-7BA50DC
Ball Diamond Fine - 5 mm		MR8-7BA50DF
Ball Diamond Fine Long - 5 mm		MR8-7BA50DFL
Ball Diamond Extra Coarse - 5 mm		MR8-7BA50DX
Ball Fine - 5 mm		MR8-7BA50F
Ball Symmetri - 5 mm		MR8-7BA50T
Ball - 6 mm		MR8-7BA60
Ball Carbide - 6 mm		MR8-7BA60C
Ball Diamond - 6 mm		MR8-7BA60D
Ball Diamond Coarse - 6 mm		MR8-7BA60DC
Ball Diamond Fine - 6 mm		MR8-7BA60DF
Ball Diamond Extra Coarse - 6 mm		MR8-7BA60DX
Ball Fine - 6 mm		MR8-7BA60F
Ball Symmetri - 6 mm		MR8-7BA60T
Ball - 7 mm		MR8-7BA70
Ball Carbide - 7 mm		MR8-7BA70C
Ball Diamond - 7 mm		MR8-7BA70D
Ball Diamond Coarse - 7 mm		MR8-7BA70DC
Ball Symmetri - 7.5 mm		MR8-7BA75T
Ball - 8 mm		MR8-7BA80
Ball Carbide - 8 mm		MR8-7BA80C
Ball Diamond - 8 mm		MR8-7BA80D
Match Head - 1.7 mm		MR8-7MH17
Match Head Diamond - 1.7 mm		MR8-7MH17D
Match Head - 2.2 mm		MR8-7MH22
Match Head Diamond - 2.2 mm		MR8-7MH22D
Match Head - 3 mm		MR8-7MH30
Oval - 4 mm		MR8-7OV40
Oval Long - 4 mm		MR8-7OV40L
Taper - 1.1 mm		MR8-7TA11
Taper Carbide - 1.2 mm		MR8-7TA12C
Taper Spiral - 1.5 mm		MR8-7TA15S
Taper Carbide - 1.6 mm		MR8-7TA16C
Taper - 1.7 mm		MR8-7TA17
Taper Carbide - 2.1 mm		MR8-7TA21C
Twist Drill - 0.8 mm, 4 mm Depth		MR8-7TD084
Twist Drill - 1 mm, 4 mm Depth		MR8-7TD104
Twist Drill - 1 mm, 6 mm Depth		MR8-7TD106
Twist Drill - 1.1 mm, 4 mm Depth		MR8-7TD114
Twist Drill - 1.1 mm, 6 mm Depth		MR8-7TD116
Twist Drill - 1.2 mm, 19 mm Depth		MR8-7TD1219
Twist Drill - 1.2 mm, 4 mm Depth		MR8-7TD124
Twist Drill - 1.2 mm, 6 mm Depth		MR8-7TD126
Twist Drill - 1.3 mm, 4 mm Depth		MR8-7TD134
Twist Drill - 1.3 mm, 6 mm Depth		MR8-7TD136
Twist Drill - 1.5 mm, 12 mm Depth		MR8-7TD1512
Twist Drill - 1.5 mm, 20 mm Depth		MR8-7TD1520
Twist Drill - 1.5 mm, 4 mm Depth		MR8-7TD154
Twist Drill - 1.5 mm, 6 mm Depth		MR8-7TD156
Twist Drill - 1.5 mm, 7 mm Drill		MR8-7TD157
Twist Drill - 1.5 mm, 8 mm Depth		MR8-7TD158
Twist Drill - 1.7 mm, 4 mm Depth		MR8-7TD174
Twist Drill - 1.7 mm, 6 mm Depth		MR8-7TD176
Twist Drill - 1.7 mm, 8 mm Depth		MR8-7TD178
Twist Drill - 2 mm, 4 mm Depth		MR8-7TD204
Twist Drill - 2 mm, 6 mm Depth		MR8-7TD206
Twist Drill - 2 mm, 8 mm Depth		MR8-7TD208
SPEED RUN		
MR8-AS09	Straight Attachment 9 cm	
MR8-AA09	Angled Attachment 9 cm	
MR8-AA09DK	DK Angled Double Lock Attachment 9 cm	
MR8-AV509	Straight Variable Attachment 9 cm	
MR8-AVA09	Angled Variable Attachment 9 cm	
MR8-AVA09DK	Angled Variable Double Lock Attachment 9 cm	
Acorn - 5 mm		MR8-9AC50
Acorn - 6 mm		MR8-9AC60
Acorn - 7.5 mm		MR8-9AC75
Acorn - 9 mm		MR8-9AC90
Ball Diamond - 1 mm		MR8-9BA10D
Ball Diamond - 2 mm		MR8-9BA20D
Ball Diamond Coarse - 2 mm		MR8-9BA20DC
Ball - 3 mm		MR8-9BA30
Ball Diamond - 3 mm		MR8-9BA30D
Ball Diamond Coarse - 3 mm		MR8-9BA30DC
Ball Symmetri - 3 mm		MR8-9BA30T
Ball - 4 mm		MR8-9BA40
Ball Diamond - 4 mm		MR8-9BA40D
Ball Diamond Coarse - 4 mm		MR8-9BA40DC
Ball Diamond Extra Coarse - 4 mm		MR8-9BA40DX
Ball Symmetri - 4 mm		MR8-9BA40T
Ball - 5 mm		MR8-9BA50
Ball Diamond - 5 mm		MR8-9BA50D
Ball Diamond Coarse - 5 mm		MR8-9BA50DC
Ball Diamond Extra Coarse - 5 mm		MR8-9BA50DX
Ball Symmetri - 5 mm		MR8-9BA50T
Ball - 6 mm		MR8-9BA60
Ball Diamond - 6 mm		MR8-9BA60D
Ball Diamond Coarse - 6 mm		MR8-9BA60DC
Ball Diamond Extra Coarse - 6 mm		MR8-9BA60DX
Ball Symmetri - 6 mm		MR8-9BA60T
Ball - 7.5 mm		MR8-9BA75
Ball Diamond - 7.5 mm		MR8-9BA75D
Ball - 9 mm		MR8-9BA90
Ball Diamond - 9 mm		MR8-9BA90D
Cylinder - 5 mm		MR8-9CY50
Cylinder Cornerstone - 5 mm		MR8-9CY50CS
Cylinder Long - 5 mm		MR8-9CY50L
Cylinder - 6 mm		MR8-9CY60
Cylinder Cornerstone - 6 mm		MR8-9CY60CS
Cylinder Cornerstone - 7 mm		MR8-9CY70CS
Cylinder - 7.5 mm		MR8-9CY75
Hole Maker - 8.5 mm		MR8-9HM85
Hole Maker - 9.5 mm		MR8-9HM95
Hole Maker - 10 mm		MR8-9HM100
Hole Maker - 12.6 mm		MR8-9HM126
Hole Saw - 5.4 mm		MR8-9HS54
Hole Saw - 10.8 mm		MR8-9HS108
Hole Saw - 13.5 mm		MR8-9HS135
Match Head - 3 mm		MR8-9MH30
Match Head Diamond - 3 mm		MR8-9MH30D
Match Head Diamond Coarse - 3 mm		MR8-9MH30DC
Match Head - 4 mm		MR8-9MH40
Oval - 5.5 mm		MR8-9OV55
Taper - 3 mm		MR8-9TA30
Taper Long - 3 mm		MR8-9TA30L
SPEED RUN		
MR8-AS10	Straight Attachment 10 cm	
MR8-AA10	Angled Attachment 10 cm	
MR8-AA10DK	Angled Double Lock Attachment 10 cm	
MR8-AV510	Straight Variable Attachment 10 cm	
MR8-AVA10	Angled Variable Attachment 10 cm	
MR8-AVA10DK	Angled Variable Double Lock Attachment 10 cm	
Acorn - 5 mm		MR8-10AC50
Acorn - 6 mm		MR8-10AC60
Ball - 1 mm		MR8-10BA10
Ball Diamond - 1 mm		MR8-10BA10D
Ball Diamond Fine - 1 mm		MR8-10BA10DF
Ball Diamond Fine Long - 1 mm		MR8-10BA10DFL
Ball Fine - 1 mm		MR8-10BA10F
Ball Diamond Fine - 1.5 mm		MR8-10BA15DF
Ball - 2 mm		MR8-10BA20
Ball Diamond - 2 mm		MR8-10BA20D
Ball Diamond Fine - 2 mm		MR8-10BA20DF
Ball Diamond Fine Long - 2 mm		MR8-10BA20DFL
Ball Fine - 2 mm		MR8-10BA20F
Ball - 3 mm		MR8-10BA30
Ball Diamond - 3 mm		MR8-10BA30D
Ball Diamond Coarse - 3 mm		MR8-10BA30DC
Ball Diamond Fine - 3 mm		MR8-10BA30DF
Ball Diamond Fine Long - 3 mm		MR8-10BA30DFL
Ball Fine - 3 mm		MR8-10BA30F
Ball Fine Long - 3 mm		MR8-10BA30FL
Ball Symmetri - 3 mm		MR8-10BA30T
Ball - 4 mm		MR8-10BA40
Ball Carbide - 4 mm		MR8-10BA40C
Ball Diamond - 4 mm		MR8-10BA40D
Ball Diamond Coarse - 4 mm		MR8-10BA40DC
Ball Diamond Fine - 4 mm		MR8-10BA40DF
Ball Diamond Extra Coarse - 4 mm		MR8-10BA40DX
Ball Fine - 4 mm		MR8-10BA40F
Ball Symmetri - 4 mm		MR8-10BA40T
Ball - 5 mm		MR8-10BA50
Ball Diamond - 5 mm		MR8-10BA50D
Ball Diamond Coarse - 5 mm		MR8-10BA50DC
Ball Diamond Fine - 5 mm		MR8-10BA50DF
Ball Diamond Extra Coarse - 5 mm		MR8-10BA50DX
Ball Fine - 5 mm		MR8-10BA50F
Ball Fine Long - 5 mm		MR8-10BA50FL
Ball - 6 mm		MR8-10BA60
Ball Diamond - 6 mm		MR8-10BA60D
Ball Diamond Fine - 6 mm		MR8-10BA60DF
Ball Diamond Extra Coarse - 6 mm		MR8-10BA60DX
Ball Fine - 6 mm		MR8-10BA60F
Ball Diamond Extra Coarse - 7 mm		MR8-10BA70DX
Cylinder Barrel - 3mm		MR8-10CY30BR
Cylinder - 4 mm		MR8-10CY40
Cylinder Barrel - 4 mm		MR8-10CY40BR
Cylinder Long - 4 mm		MR8-10CY40L
Cylinder - 5 mm		MR8-10CY50
Cylinder Barrel - 5 mm		MR8-10CY50BR
Cylinder Long - 5 mm		MR8-10CY50L
Cylinder - 6 mm		MR8-10CY60
Cylinder Barrel - 6 mm		MR8-10CY60BR
Cylinder Diamond Extra Coarse - 6.5 mm		MR8-10CY65DX
Match Head - 1.7 mm		MR8-10MH17
Match Head Diamond - 1.7 mm		MR8-10MH17D
Match Head - 2.2 mm		MR8-10MH22

AF01 AF02 AF03 AF01R AF02R

Rotating

FOOTED ATTACHMENTS

Also referred to as craniotome attachments, footed attachments are used in cranial and spinal procedures.

The footed attachments allow the surgeon to protect soft tissue when cutting through bone.

AC16

CONTRA ANGLED ATTACHMENT

The contra angled attachment is designed for limited access right-angled applications.

ASMC

METAL CUTTING ATTACHMENT

This attachment can accommodate tungsten carbide or diamond tools for the trans-section of metal.

ASJL

J-LATCH ATTACHMENT

ASJL universal attachment that accepts all manufacturer tools with a J shaped end; compatible with all Midas Rex motors.

AD02

AD01 (800 RPM) AD03 (1000RPM)

PERFORATOR DRIVER AND JACOBS® CHUCK

The Perforator Driver is used to drive perforator bits with a Hudson shank, while the non-cannulated Jacobs Chuck drives pins and wires.

Metal cutting attachments

Warnings:

- Do not use metal cutter dissecting tools on bone.
- For metal transection, observe the following safety guidelines:
  a. Wear eye protection.
  b. Irrigate copiously to cool the cutting surfaces
  c. Protect the wound site from metal debris.
  d. Use a clamp or grasping device to control loose fragments during transection of any metal component.
- Use only dissecting tools specifically designed for use with this drill system. Match the nomenclature and color code on the dissecting tool packaging to the same nomenclature and color band on the attachment.

Notes:

- The metal cutting attachments use the tungsten carbide or diamond wheel dissecting tools.
- A dissecting tool may be installed and locked in the attachment before the metal cutting attachment is installed on the motor.
- The Legend system metal cutter dissecting tool can be used with the MR8-ASMC9 attachment. Match the color code on the metal cutter Legend dissecting tool packaging to the same color band on the attachment.

All metal cutter dissecting tools have an "MC" attachment prefix in their nomenclature (for example MR8-9MC30). Metal cutter dissecting tools should not be installed into other attachments.

The metal cutting attachments come in a double locking (DK) configuration.

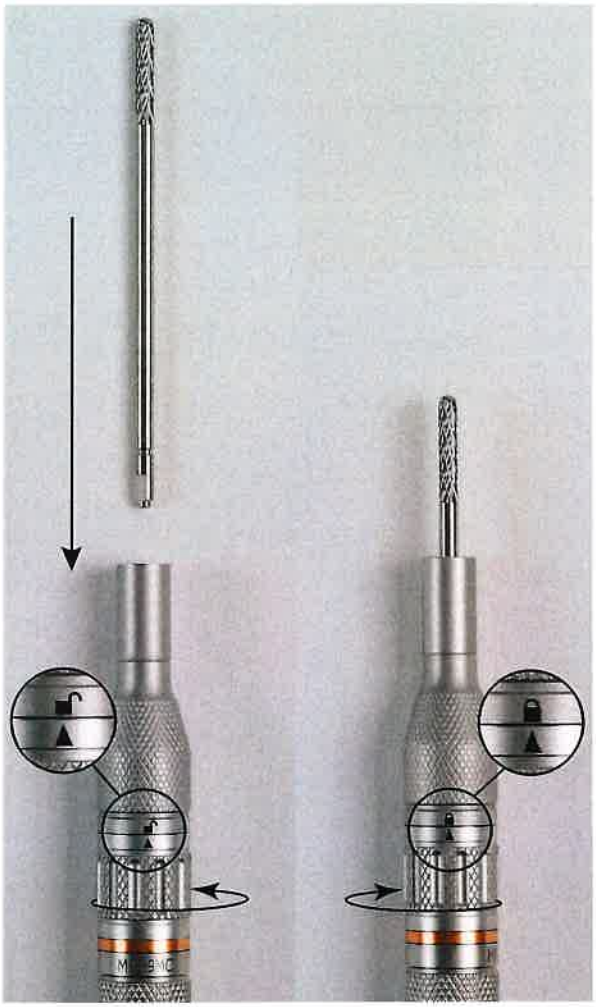
Assembly:

1. Slide the metal cutting attachment over the motor collet aligning triangular marks on the attachment and the motor case. An audible click, heard and perceptible by touch, confirms that the attachment is fully seated.
2. Rotate the attachment to the locked position on the motor case.
3. To insert the tool, make sure that the tool locking ring is in the unlocked position, and insert the dissecting tool into the top of the tube (Figure 23).
4. Rotate the dissecting tool until it drops into position and is fully seated (Figure 23).
5. Rotate the tool locking ring to the locked position. Gently pull on the shaft of the dissecting tool to verify proper installation.

Disassembly:

1. Rotate the tool locking ring to the unlocked position. Pull the dissecting tool from the attachment.
2. Discard the tool.
3. Push the attachment distally, then rotate the attachment to the unlocked position on the motor case and lift the attachment off the motor.

23 **MR8™ metal cutting attachment**



Telescoping attachments and tubes

Telescoping attachments provide support to the rotating dissecting tool. Telescoping tubes are disposable following multiple uses and should be discarded when heat or excessive vibration is noticed or insertion of tools becomes difficult. Telescoping attachment MR8-AT10ADK is provided in a double locking (DK) configuration. The straight telescoping attachment (MR8-AT10) is available in both a DK and non-DK configuration.

Warnings: Use only dissecting tools specifically designed for use with this drill system. Match the nomenclature and color code on the dissecting tool packaging to the same nomenclature and color band on the attachment.

Notes:

- To assemble DK attachments, follow the instructions for the respective attachment. To disassemble DK attachments, push the attachment distally before rotating.
- The Legend system 12 cm, 14 cm, 15 cm, and 18 cm telescoping tubes and dissecting tools can be used with the MR8™ system. Match the color code on the telescoping Legend dissecting tool packaging to the same color band on the telescoping tube.

Assembly

1. Slide the attachment over the motor collet aligning the triangular markers. A tactile click confirms the attachment is fully seated.
   Note: A dissecting tool and telescoping tube may be installed and locked in the attachment before the telescoping attachment is installed on the motor.
2. Rotate the attachment to the locked position.
3. Rotate the tube locking ring toward the unlocked icon (Figure 24-1).
4. Insert the base of the telescoping tube into the attachment (Figure 24-2).
5. To lock the tube in place, rotate the tube locking ring towards the locked icon. Verify that the tube is secure by gently pulling on the tube. Do not over tighten the tube locking ring.
6. To insert the tool, make sure that the tool locking ring is in the unlocked position, and insert the dissecting tool into the top of the tube (Figure 24-3). A tactile click confirms that the tool is fully seated.
7. Rotate the tool locking ring to the locked position. Gently pull on the shaft of the dissecting tool to verify proper installation (Figure 24-4).
8. If the tube position needs to be changed, rotate the tube locking ring toward the unlocked icon and reposition the tube. Then, rotate the tube locking ring toward the locked icon.

Disassembly

1. To remove the attachment, rotate the tool locking ring and the tube locking ring to the unlocked position, and pull the telescoping tube and tool out of the attachment.
2. Rotate the attachment to the unlocked position and lift the attachment off the motor.
   Note: Telescoping tubes should be discarded when heat or excessive vibration is noticed, or when insertion of the tool becomes difficult.

24-1 **MR8™ telescoping attachments and tubes assembly**

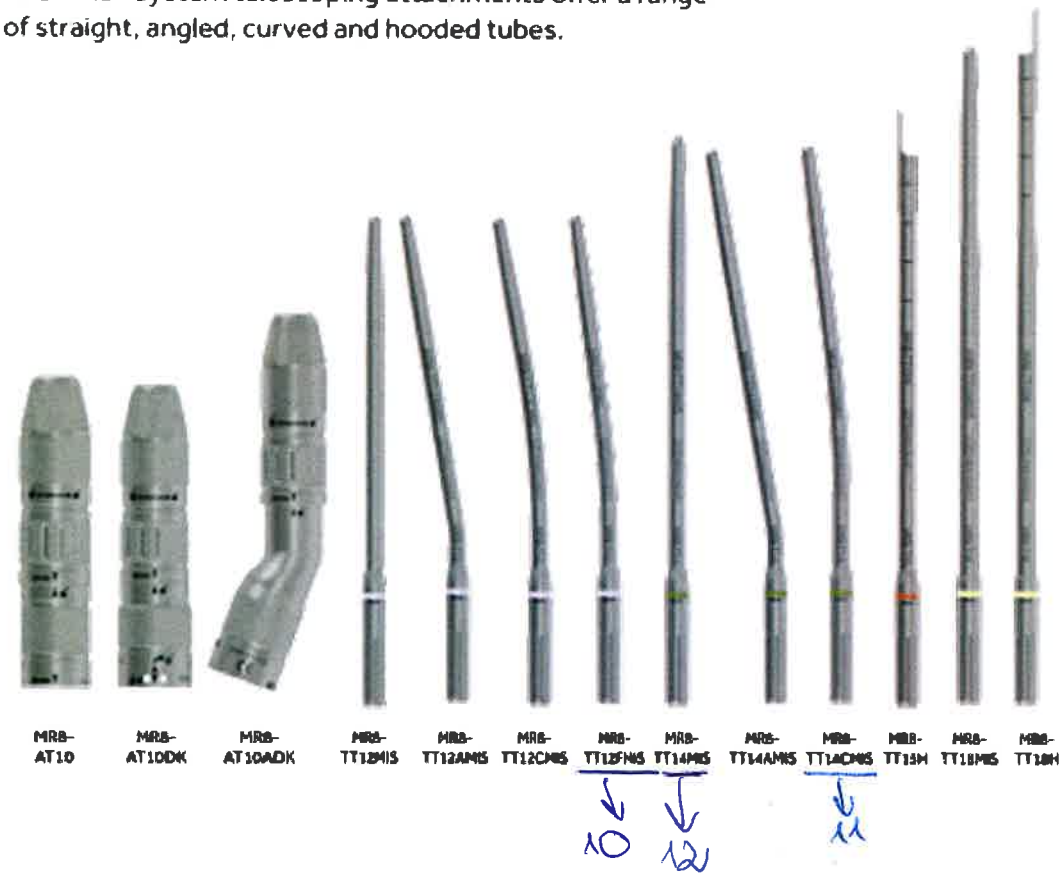
24-2 **MR8™ telescoping attachments and tubes assembly**

24-3 **MR8™ telescoping attachments and tubes assembly**

24-4 **MR8™ telescoping attachments and tubes assembly**

Telescoping Attachments

The MR8™ system telescoping attachments offer a range of straight, angled, curved and hooded tubes.



Match Head Diamond - 2.2 mm	MR8-10MH22D
Match Head - 3 mm	MR8-10MH30
Match Head Diamond - 3 mm	MR8-10MH30D
Match Head Diamond Coarse - 3 mm	MR8-10MH30DC
Match Head - 4 mm	MR8-10MH40
Oval - 4 mm	MR8-10OV40
Oval Diamond - 4 mm	MR8-10OV40D
Taper - 2.3 mm	MR8-10TA23

SMALL BURS

MR8-AS12	Straight Attachment 12 cm
MR8-AA12	Angled Attachment 12 cm
MR8-AA12DK	Angled Double Lock Attachment 12 cm
MR8-AVS12	Straight Variable Attachment 12 cm
MR8-AVA12	Angled Variable Attachment 12 cm
MR8-AVA12DK	Angled Variable Double Lock Attachment 12 cm

Ball - 2 mm	MR8-12BA20
Ball - 3 mm	MR8-12BA30
Ball Diamond - 3 mm	MR8-12BA30D
Ball Symmetri - 3 mm	MR8-12BA30T
Ball - 4 mm	MR8-12BA40
Ball Diamond - 4 mm	MR8-12BA40D
Ball Diamond Extra Coarse - 4 mm	MR8-12BA40DX
Ball Symmetri - 4 mm	MR8-12BA40T
Ball - 5 mm	MR8-12BA50
Ball Diamond - 5 mm	MR8-12BA50D
Ball - 6 mm	MR8-12BA60
Ball Diamond - 6 mm	MR8-12BA60D
Ball Diamond Extra Coarse - 6 mm	MR8-12BA60DX
Match Head - 2.2 mm	MR8-12MH22
Match Head - 3 mm	MR8-12MH30
Match Head Diamond - 3 mm	MR8-12MH30D

LARGE BURS

MR8-AS14	Straight Attachment 14 cm
MR8-AA14	Angled Attachment 14 cm
MR8-AA14DK	Angled Double Lock Attachment 14 cm
MR8-AVS14	Straight Variable Attachment 14 cm
MR8-AVA14	Angled Variable Attachment 14 cm
MR8-AVA14DK	Angled Variable Double Lock Attachment 14 cm

Acorn - 5 mm	MR8-14AC50
Acorn - 6 mm	MR8-14AC60
Acorn - 7.5 mm	MR8-14AC75
Acorn - 9 mm	MR8-14AC90
Ball - 2 mm	MR8-14BA20
Ball Diamond - 2 mm	MR8-14BA20D
Ball - 2.5 mm	MR8-14BA25
Ball Diamond - 2.5 mm	MR8-14BA25D
Ball - 3 mm	MR8-14BA30
Ball Diamond - 3 mm	MR8-14BA30D
Ball Diamond Coarse - 3 mm	MR8-14BA30DC
Ball Symmetri - 3 mm	MR8-14BA30T
Ball - 4 mm	MR8-14BA40
Ball Diamond - 4 mm	MR8-14BA40D
Ball Diamond Coarse - 4 mm	MR8-14BA40DC
Ball Diamond Extra Coarse - 4 mm	MR8-14BA40DX
Ball Fine - 4 mm	MR8-14BA40F
Ball Symmetri - 4 mm	MR8-14BA40T
Ball - 5 mm	MR8-14BA50
Ball Carbide - 5 mm	MR8-14BA50C
Ball Diamond - 5 mm	MR8-14BA50D
Ball Diamond Coarse - 5 mm	MR8-14BA50DC
Ball Diamond Extra Coarse - 5 mm	MR8-14BA50DX
Ball Symmetri - 5 mm	MR8-14BA50T
Ball - 6 mm	MR8-14BA60
Ball Diamond - 6 mm	MR8-14BA60D
Ball Diamond Coarse - 6 mm	MR8-14BA60DC
Ball Diamond Extra Coarse - 6 mm	MR8-14BA60DX
Ball Symmetri - 6 mm	MR8-14BA60T
Ball Diamond Extra Coarse - 7 mm	MR8-14BA70DX
Ball - 7.5 mm	MR8-14BA75
Ball Diamond - 7.5 mm	MR8-14BA75D
Ball Symmetri - 7.5 mm	MR8-14BA75T
Ball Diamond Extra Coarse - 8 mm	MR8-14BA80DX
Ball - 9 mm	MR8-14BA90
Ball Diamond - 9 mm	MR8-14BA90D
Cylinder Ball End - 3 mm	MR8-14CY30B
Cylinder - 5 mm	MR8-14CY50
Cylinder Ball End - 5 mm	MR8-14CY50B
Cylinder Diamond Coarse Ball End - 5 mm	MR8-14CY50BDC
Cylinder Cornerstone - 5 mm	MR8-14CY50CS
Cylinder Diamond Coarse - 5 mm	MR8-14CY50DC
Cylinder Long - 5 mm	MR8-14CY50L
Cylinder - 6 mm	MR8-14CY60
Cylinder Diamond Coarse Ball End - 6 mm	MR8-14CY60BDC
Cylinder Cornerstone - 6 mm	MR8-14CY60CS
Cylinder Diamond Coarse - 6 mm	MR8-14CY60DC
Cylinder Fine Long - 6 mm	MR8-14CY60FL
Cylinder Diamond Extra Coarse - 6.5 mm	MR8-14CY65DX
Cylinder Diamond Coarse Ball End - 7 mm	MR8-14CY70BDC
Cylinder Cornerstone - 7 mm	MR8-14CY70CS
Cylinder Diamond Coarse - 7 mm	MR8-14CY70DC
Cylinder - 7.5 mm	MR8-14CY75
Cylinder Long - 7.6 mm	MR8-14CY76L
Cylinder Cornerstone - 8 mm	MR8-14CY80CS
Cylinder - 9 mm	MR8-14CY90
Cylinder Cornerstone - 9 mm	MR8-14CY90CS
Hole Maker - 12.6 mm	MR8-14HM126
Hole Maker - 9.5 mm	MR8-14HM95
Match Head - 3 mm	MR8-14MH30
Match Head Diamond - 3 mm	MR8-14MH30D
Match Head Diamond Coarse - 3 mm	MR8-14MH30DC
Match Head Symmetri - 3 mm	MR8-14MH30T
Match Head - 4 mm	MR8-14MH40
Match Head Diamond - 4 mm	MR8-14MH40D
Oval - 4 mm	MR8-14OV40
Oval - 5.5 mm	MR8-14OV55
Reverse Taper - 3.2 mm	MR8-14RT32
Reverse Taper - 6.4 mm	MR8-14RT64
Taper Long - 2.3 mm	MR8-14TA23L
Taper - 3 mm	MR8-14TA30
Taper - 3.1 mm	MR8-14TA31

SMALL BURS

MR8-AS15	Straight Attachment 15 cm
MR8-AA15	Angled Attachment 15 cm
MR8-AA15DK	Angled Double Lock Attachment 15 cm
MR8-AVS15	Straight Variable Attachment 15 cm
MR8-AVA15	Angled Variable Attachment 15 cm
MR8-AVA15DK	Angled Variable Double Lock Attachment 15 cm

Acorn - 5 mm	MR8-15AC50
Acorn - 6 mm	MR8-15AC60
Ball - 2 mm	MR8-15BA20
Ball Diamond - 2 mm	MR8-15BA20D
Ball - 3 mm	MR8-15BA30
Ball Diamond - 3 mm	MR8-15BA30D
Ball Symmetri - 3 mm	MR8-15BA30T
Ball - 4 mm	MR8-15BA40
Ball Diamond - 4 mm	MR8-15BA40D
Ball Diamond Extra Coarse - 4 mm	MR8-15BA40DX
Ball Symmetri - 4 mm	MR8-15BA40T
Ball - 5 mm	MR8-15BA50
Ball Diamond - 5 mm	MR8-15BA50D
Ball Diamond Coarse - 5 mm	MR8-15BA50DC
Ball Diamond Extra Coarse - 5 mm	MR8-15BA50DX
Ball Symmetri - 5 mm	MR8-15BA50T
Ball - 6 mm	MR8-15BA60
Ball Diamond - 6 mm	MR8-15BA60D
Cylinder Diamond Coarse - 3 mm	MR8-15CY30DC
Cylinder Diamond Coarse Diamond - 3 mm	MR8-15CY30DCD
Cylinder - 5 mm	MR8-15CY50
Cylinder Diamond Coarse Diamond - 5 mm	MR8-15CY50DCD
Cylinder Long - 5 mm	MR8-15CY50L
Cylinder - 6 mm	MR8-15CY60
Cylinder Diamond Extra Coarse - 6.5 mm	MR8-15CY65DX
Match Head - 1.7 mm	MR8-15MH17
Match Head Diamond - 1.7 mm	MR8-15MH17D
Match Head - 2.2 mm	MR8-15MH22
Match Head - 3 mm	MR8-15MH30
Match Head Diamond - 3 mm	MR8-15MH30D
Match Head Diamond Coarse - 3 mm	MR8-15MH30DC
Match Head Diamond - 4 mm	MR8-15MH40D
Taper - 2.3 mm	MR8-15TA23
Taper Long - 2.3 mm	MR8-15TA23L

SMALL BURS

MR8-AS18	Straight Attachment 18 cm
MR8-AA18	Angled Attachment 18 cm
MR8-AA18DK	Angled Double Lock Attachment 18 cm

Ball - 3 mm	MR8-18BA30
Ball Diamond - 3 mm	MR8-18BA30D
Ball Symmetri - 4 mm	MR8-18BA40T
Ball Symmetri - 5 mm	MR8-18BA50T
Match Head - 2.2 mm	MR8-18MH22
Match Head - 3 mm	MR8-18MH30
Match Head Diamond - 3 mm	MR8-18MH30D

LARGE BURS

MR8-AS21	Straight Attachment 21 cm
MR8-AA21	Angled Attachment 21 cm
MR8-AA21DK	Angled Double Lock Attachment 21 cm

Acorn - 6 mm	MR8-21AC60
Acorn - 7.5 mm	MR8-21AC75
Acorn - 9 mm	MR8-21AC90
Ball Diamond Extra Coarse - 4 mm	MR8-21BA40DX
Ball - 5 mm	MR8-21BA50
Ball Diamond Extra Coarse - 5 mm	MR8-21BA50DX
Ball - 6 mm	MR8-21BA60
Ball Diamond - 6 mm	MR8-21BA60D
Ball Diamond Extra Coarse - 6 mm	MR8-21BA60DX
Ball Diamond Extra Coarse - 7 mm	MR8-21BA70DX
Ball - 7.5 mm	MR8-21BA75
Ball Diamond Extra Coarse - 8 mm	MR8-21BA80DX
Ball - 9 mm	MR8-21BA90
Ball Diamond - 9 mm	MR8-21BA150D
Cylinder - 5 mm	MR8-21CY50
Cylinder Diamond Extra Coarse - 6.5 mm	MR8-21CY65DX
Cylinder - 9 mm	MR8-21CY90
Match Head - 3 mm	MR8-21MH30
Match Head Diamond - 3 mm	MR8-21MH30D
Taper - 3 mm	MR8-21TA30

LARGE BURS

MR8-AS26	Straight Attachment 26 cm

Acorn - 6 mm	MR8-26AC60
Acorn - 7.5 mm	MR8-26AC75
Acorn - 9 mm	MR8-26AC90
Ball - 3 mm	MR8-26BA30
Ball - 4 mm	MR8-26BA40
Ball Diamond - 4 mm	MR8-26BA40D
Ball - 5 mm	MR8-26BA50
Ball Diamond - 5 mm	MR8-26BA50D
Ball Diamond Extra Coarse - 5 mm	MR8-26BA50DX
Ball - 6 mm	MR8-26BA60
Ball Diamond - 6 mm	MR8-26BA60D
Ball Diamond Extra Coarse - 7 mm	MR8-26BA70DX
Ball - 7.5 mm	MR8-26BA75
Ball - 9 mm	MR8-26BA90
Cylinder - 6 mm	MR8-26CY60
Cylinder - 7.5 mm	MR8-26CY75
Cylinder - 9 mm	MR8-26CY90
Match Head - 3 mm	MR8-26MH30
Match Head Diamond - 3 mm	MR8-26MH30D
Taper - 3 mm	MR8-26TA30

MR8-TT12MIS	Telescoping Tube 12 cm Straight
MR8-TT12AMIS	Telescoping Tube 12 cm Angled
MR8-TT12CMIS	Telescoping Tube 12 cm Curved
MR8-TT12FMIS	Telescoping Tube 12 cm Fine

Ball - 2 mm	MR8-T12BA20
Ball Diamond - 2 mm	MR8-T12BA20D
Ball Diamond - 3 mm	MR8-T12BA30D
Match Head - 1.5 mm	MR8-T12MH15
Match Head Diamond - 1.5 mm	MR8-T12MH15D
Match Head - 2 mm	MR8-T12MH20
Match Head Diamond - 2 mm	MR8-T12MH20D
Match Head - 2.5 mm	MR8-T12MH25
Match Head Diamond - 2.5 mm	MR8-T12MH25D
Match Head Long - 2.5 mm	MR8-T12MH25L
Match Head Two Flute - 2.5 mm	MR8-T12MH25M
Match Head Symmetri - 2.5 mm	MR8-T12MH25T
Match Head Diamond - 3 mm	MR8-T12MH30D
Match Head Diamond Coarse - 3 mm	MR8-T12MH30DC
Match Head Diamond Extra Coarse - 3 mm	MR8-T12MH30DX
Match Head Two Flute - 3 mm	MR8-T12MH30M
Match Head Symmetri - 3 mm	MR8-T12MH30T
Match Head Diamond - 3.5 mm	MR8-T12MH35D
Match Head Diamond Coarse - 3.5 mm	MR8-T12MH35DC
Match Head Diamond Extra Coarse - 4 mm	MR8-T12MH40DX
Match Head Diamond - 4.5 mm	MR8-T12MH45D
Reverse Taper Diamond - 4 mm	MR8-T12RT40D
Taper - 1.1 mm	MR8-T12TA11

MR8-TT14MIS	Telescoping Tube 14 cm Straight
MR8-TT14AMIS	Telescoping Tube 14 cm Angled
MR8-TT14CMIS	Telescoping Tube 14 cm Curved

Ball - 2 mm	MR8-T14BA20
Ball - 3 mm	MR8-T14BA30
Ball Diamond - 3 mm	MR8-T14BA30D
Ball - 4 mm	MR8-T14BA40
Ball Diamond - 4 mm	MR8-T14BA40D
Match Head - 2.5 mm	MR8-T14MH25
Match Head Two Flute - 2.5 mm	MR8-T14MH25M
Match Head Symmetri - 2.5 mm	MR8-T14MH25T
Match Head Diamond - 3 mm	MR8-T14MH30D
Match Head Diamond Coarse - 3 mm	MR8-T14MH30DC
Match Head Two Flute - 3 mm	MR8-T14MH30M
Match Head Symmetri - 3 mm	MR8-T14MH30T
Match Head Diamond - 4.5 mm	MR8-T14MH45D

MR8-TT15H	Telescoping Tube 15 cm Hooded

MR8-T15BA20	Ball - 2 mm
MR8-T15MH25	Match Head - 2.5 mm
MR8-T15MH30D	Match Head Diamond - 3 mm

MR8-TT18MIS	Telescoping Tube 18 cm Straight
MR8-TT18H	Telescoping Tube 18 cm Hooded

Match Head - 2.5 mm	MR8-T18MH25
Match Head Diamond - 3 mm	MR8-T18MH30D

MR8-ASMC9	Metal Cutting 9 cm Attachment

Metal Cutter - 1.6 mm	MR8-9MC16
Metal Cutter Diamond Wheel - 25.4 mm	MR8-9MC254
Metal Cutter - 3 mm	MR8-9MC30
Metal Cutter - 3.2 mm	MR8-9MC32

MR8-ASMC14	Metal Cutting 14 cm Attachment

Metal Cutter - 1.6 mm	MR8-14MC16
Metal Cutter Diamond Wheel - 25.4 mm	MR8-14MC254
Metal Cutter - 3 mm	MR8-14MC30
Metal Cutter - 3.2 mm	MR8-14MC32

EASYDRILL™ CRANIAL PERFORATORS

The EasyDrill™ Cranial Perforators combine efficient bone cutting performance with the protection of AutoStop technology.

PROTECTION

Employs a clutch mechanism to automatically disengage once it ceases to find resistance to bone.

PERFORMANCE

Drill tip design helps prevent slipping, while sharp edges cut quickly through bone.

VARIETY

Four color-coded sizes to meet a wide range of cranium types.

ORDERING INFORMATION

Item #	Colour	Outer Diam.	Inner Diam.	Shelf	Minimum Bone Thickness
DM0008FAA		9.0 mm	6.0 mm	3.0 mm	3.25 mm
DM0011FAA		11.0 mm	7.0 mm	3.0 mm	3.25 mm
DM0210FAA		14.0 mm	11.0 mm	1.5 mm	1.75 mm
DM0010FAA		14.0 mm	11.0 mm	3.0 mm	3.25 mm

Item #	Description
*AD03	Midas Rex® Perforator Driver Attachment Manufactured by Medtronic

Rx only. Refer to product instruction manual/ package insert for instructions, warnings, precautions and contraindications.

For more information, contact your Medtronic Neurosurgery sales representative or refer to **www.MedtronicNeurosurgery.com.**

For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

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Manufactured by:
MICROMAR
Distributed by Medtronic

SURGICAL TECHNIQUE

THE EASYDRILL™ CRANIAL PERFORATORS

The EasyDrill Cranial Perforator device is a bone cutting and drilling instrument used in conjunction with a surgical motor and a Hudson Chuck - speed reducer attachment, to drill access holes through a patient's skull.

When properly used, the EasyDrill Cranial Perforator employs a clutch mechanism to automatically disengage once perforation is accomplished and as the drill ceases to find resistance to bone.

EQUIPMENT NEEDED

1. EasyDrill Cranial Perforator™
2. Attachment Driver (AD03)
3. Drill

EASYDRILL CRANIAL PERFORATOR FUNCTIONAL TEST

Perform the following function test before each trephination. Use sterile disposable gloves to perform the test.

CAUTION: If the sterile protective cover is not available, use sterile gauze (as a protective barrier) when handling the cutting end of the EasyDrill Cranial Perforator.

NOTE: Do not use the product and contact customer service if either of the two function tests below fail to present the indicated results:

RECOMMENDED SPEED RANGE:

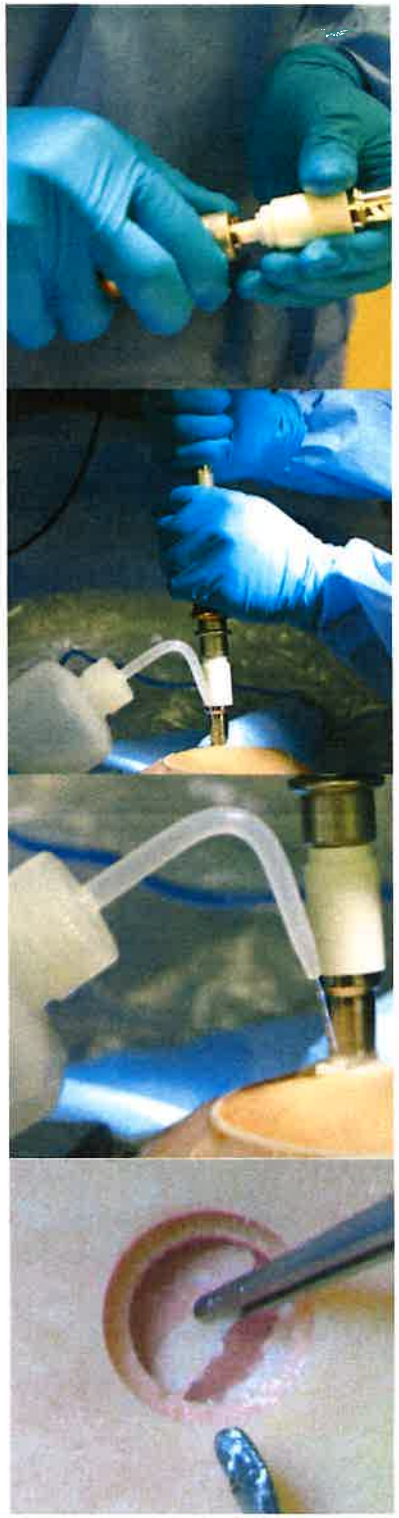
We recommend a speed range of 800 to 1000 RPM for the drilling with EasyDrill Cranial Perforators.

1. Firmly hold the EasyDrill Cranial Perforator's plastic drive shank (Hudson shank) and the protective cover, turning the cutting end of the EasyDrill Cranial Perforator device in a clockwise direction. The cutting end of the device should turn freely.

2. Next, grasp the EasyDrill Cranial Perforator by the plastic drive shank (Hudson shank) and press the protected cutting end of the device into the opposite hand, turn the drill clockwise until it locks; to unlock, cease to apply pressure.

CRANIAL BONE DRILLING

1. After the functional tests, attach the EasyDrill Cranial Perforator to the Hudson-type chuck of the motorized driver. Verify that the EasyDrill Cranial Perforator is firmly fixed to the Hudson-type chuck before proceeding.
2. Remove the protective cover from the cutting end of the EasyDrill Cranial Perforator device before drilling.
3. Position and press the cutting end of the EasyDrill Cranial Perforator gently against the skull to be perforated.
4. Manually turn the EasyDrill Cranial Perforator until you feel the drill engagement.
5. Position the EasyDrill Cranial Perforator perpendicular to the skull (90°) on the point of perforation. Supply power to the drilling system and begin trepanation.
6. Maintain a gentle and continuous pressure while drilling.
7. Irrigate the point of perforation with physiological serum while drilling to prevent bone necrosis.
8. At the drilling depth where the EasyDrill Cranial Perforator device ceases to find resistance to bone, it automatically disengages the cutting end of the device, which stops rotating. Note: At this stage, the plastic shank of the device may appear to continue to rotate.
9. Carefully remove the EasyDrill Cranial Perforator from the skull.
10. There may still be a thin bone layer in the hole that must be carefully removed with appropriate surgical instrument. If this layer is adhered to the brain material, take appropriate care not to injure the dura.
11. Before performing another perforation, wipe the cutting end of the EasyDrill Cranial Perforator removing the residues from the previous drilling. Perform testing procedures again.



MR8™ Twist Drill

TOOL TYPE	Head Diameter (mm)	Stop Depth (mm)	7 cm Small Bore
	0.8	4.0	MR8-7TD084
	1.0	4.0	MR8-7TD104
	1.0	6.0	MR8-7TD106
	1.1	4.0	MR8-7TD114
	1.1	6.0	MR8-7TD116
	1.2	4.0	MR8-7TD124
	1.2	6.0	MR8-7TD126
	1.2	19.0	MR8-7TD1219
	1.5	4.0	MR8-7TD154
	1.5	6.0	MR8-7TD156
	1.5	7.0*	MR8-7TD157
	1.5	8.0	MR8-7TD158
	1.5	12.0	MR8-7TD1512
	1.5	20.0	MR8-7TD1520
	1.7	4.0	MR8-7TD174
	1.7	6.0	MR8-7TD176
	1.7	8.0	MR8-7TD178
	2.0	4.0	MR8-7TD204
	2.0	6.0	MR8-7TD206
	2.0	8.0	MR8-7TD208

ATTACHMENT: MR8-ASQ7, MR8-AAQ7, MR8-AAQ7DK, MR8-AVSQ7, MR8-AVAQ7, MR8-AVAQ7DK

ATTACHMENT: MR8-ASQ7, MR8-AAQ7, MR8-AAQ7DK, MR8-AVSQ7, MR8-AVAQ7, MR8-AVAQ7DK

*MR8-7TD157 has a cutting flute length of 7.0mm and no depth stop

MR8™ Hole Saw

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	9 cm Large Bore
	5.4	48.3	MR8-9HS54
	10.8	33.0	MR8-9HS108
	13.5	33.0	MR8-9HS135

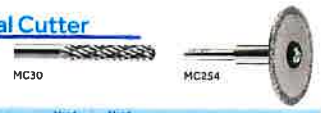
ATTACHMENT: MR8-ASQ7, MR8-AAQ7, MR8-AAQ7DK, MR8-AVSQ7, MR8-AVAQ7, MR8-AVAQ7DK

MR8™ Hole Maker

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	9 cm Large Bore	14 cm Large Bore
	8.5	10.4	MR8-9HM85	
	9.5	10.4	MR8-9HM95	MR8-14HM95
	10.0	10.4	MR8-9HM100	
	12.6	10.4	MR8-9HM126	MR8-14HM126

ATTACHMENT: MR8-AS14, MR8-AA14, MR8-AA14DK, MR8-AVS14, MR8-AVA14, MR8-AVA14DK

MR8™ Metal Cutter



MC30 MC254

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	9 cm	14 cm
	1.6	6.4	MR8-9MC16	MR8-14MC16
	3.0	0.8	MR8-9MC254	MR8-14MC254
	3.2	17.9	MR8-9MC30	MR8-14MC30
	25.4	13.2	MR8-9MC32	MR8-14MC32

ATTACHMENT: MR8-AS14, MR8-AS14C14

MR8™ Telescoping - Ball

TOOL TYPE	Head Diameter (mm)	12 cm	14 cm	15 cm
	2.0	MR8-T12BA20	MR8-T14BA20	MR8-T15BA20
	3.0		MR8-T14BA30	
	4.0		MR8-T14BA40	

ATTACHMENT: MR8-TT12MIS, MR8-TT12CMIS, MR8-TT12AMIS, MR8-TT12FMIS; MR8-TT14MIS, MR8-TT14AMIS, MR8-TT14CMIS; MR8-TT15M

MR8™ Telescoping - Ball Diamond

TOOL TYPE	Head Diameter (mm)	12 cm	14 cm
	2.0	MR8-T12BA20D	
	3.0	MR8-T12BA30D	MR8-T14BA30D
	4.0		MR8-T14BA40D

ATTACHMENT: MR8-TT12MIS, MR8-TT12CMIS, MR8-TT12AMIS, MR8-TT12FMIS; MR8-TT14MIS, MR8-TT14AMIS, MR8-TT14CMIS

MR8™ Telescoping - Reverse Taper

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	12 cm
	4.0	5.4	MR8-T12RT40D

ATTACHMENT: MR8-TT12MIS, MR8-TT12CMIS, MR8-TT12AMIS, MR8-TT12FMIS

MR8™ Telescoping - Tapered

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	12 cm
	1.1	6.4	MR8-T12TA11

ATTACHMENT: MR8-TT12MIS, MR8-TT12CMIS, MR8-TT12AMIS, MR8-TT12FMIS

ACCESSORIES

Sterilization Trays and Cases

CA800	MR8 Instrument Tray 1/2 DIN
CA800S*	MR8 Sterilization Case 1/2 DIN
CA850	MR8 Instrument Tray 3/4 DIN
CA850S*	MR8 Sterilization Case 3/4 DIN
CA875	MR8 Instrument Tray Navigated 3/4 DIN

Electric Motor Accessories

EA815	MR8 Electric Control Switch

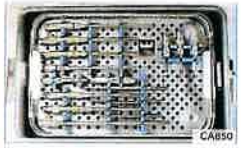
On-Drill Irrigation Tubing

IRD850	MR8 On-Drill Irrigation Tubing, Single
IRD800	MR8 On-Drill Irrigation Tubing, 5-Pack

ClearView Irrigation Tubing

IRD870	MR8 ClearView Irrigation Tubing, Single
IRD875	MR8 ClearView Irrigation Tubing, 5-Pack


CA800S


CA850


IRD870


EA815

*Distributed by Medtronic Powered Surgical Solutions for use with the Midas Rex MR8 System. Manufactured by Case Medical Inc.

Pneumatic Motor Accessories

PA700	Pneumatic Lubricant Diffuser Cartridge
PC700	Pneumatic Foot Control Unit
PC710	Pneumatic Regulator Hose
PC720	Pneumatic Triton Adapter
PA200	Pneumatic Regulator
PC110	N2 DISS to Male Schrader Adapter
PC111	N2 DISS to Male Schrader Adapter (UK)
PC120	N2 DISS to Air DISS Adapter
PC130	N2 DISS to WF4 Adapter
PC140	N2 DISS to Female Schrader Adapter
PC150	N2 DISS to Male SIS Adapter (AUS)

General Accessories

PA115	Tool Storage Rack
PA130	Motor Wrench
PA305	Small (1.2mm) Cleaning Brush 5-Pack
PA315	Medium (2.4mm) Cleaning Brush 5-Pack
PA325	Large (3.2mm) Cleaning Brush 5-Pack


PC700


PC110


PC111


PC120


PC140


PC150


PA700

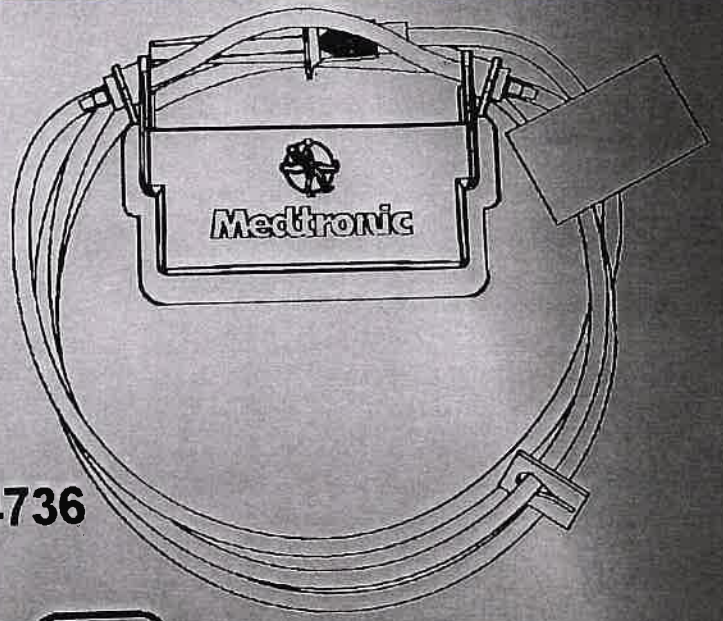

PA200

ACCESSORIES

Midas Rex ClearView® Irrigation Tubing Set 33

EC REP
Medtronic B.V.
Earl Bakkenstraat 10
6422 PJ Heerlen
The Netherlands

Medtronic Xomed, Inc.,
6743 Southpoint Drive North
Jacksonville, FL 32216-0980 USA 33



℞Only 2 LOT 0223544736

STERILE EO

2023-06-30

PHT
DEHP

CE 0123

M000030B050 B 0097

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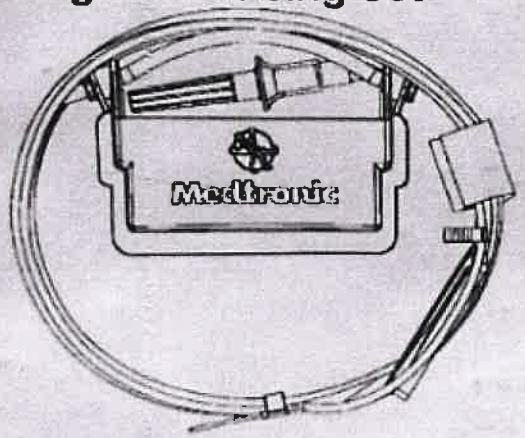
Medtronic

REF IRD800 x1

Midas Rex™ MR8™
Irrigation Tubing Set



MR8

LOT 0228019536

STERILE EO

2028-01-02

PHT

DEHP

32

CE 2797

℞Only

M026477C001 A 0106

LOT 0228019536

2024-01-03

M026478C001 A 0104

68G1156 B

MR8™ Tapered


MR8-15TA23L


MR8-9TA30

✓= Navigation Compatible

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	14 cm Large Bore	15 cm Small Bore	21 cm Large Bore	26 cm Large Bore
	1.1	6.4	MR8-7TA11						
	1.2	4.4	MR8-7TA12C						
	1.5	25.9	MR8-7TA15S						
	1.6	4.4	MR8-7TA16C						
	1.7	15.8	MR8-7TA17						
	2.1	5.0	MR8-7TA21C						
	2.3	15.9			MR8-10TA23		MR8-15TA23		
	2.3	22.0				MR8-14TA23L	MR8-15TA23L ✓		
	3.0	31.5		MR8-9TA30		MR8-14TA30		MR8-21TA30	MR8-26TA30
	3.0	31.5		MR8-9TA30L					
	3.1	19.1				MR8-14TA31			

ATTACHMENT

MR8-A507 MR8-AA07 MR8-AA07DK MR8-AV307 MR8-AVA07 MR8-AVA07DK

MR8-A510 MR8-AA10 MR8-AA10DK MR8-AV310 MR8-AVA10 MR8-AVA10DK

MR8-A514 MR8-AA14 MR8-AA14DK MR8-AV314 MR8-AVA14 MR8-AVA14DK

MR8-A521 MR8-AA21 MR8-AA21DK

MR8-A526

* AF02 & AF02R

MR8™ Tapered - Footed


FZ/7TA23S


F3/9TA30

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	7 cm Small Bore	9 cm Large Bore
	1.1	11.1	MR8-FZ/7TA11	
	1.5	13.1	MR8-FZ/7TA15S	
	2.3	15.9	MR8-FZ/7TA23	
	2.3	15.4	MR8-FZ/7TA23S	
	3.0	25.4		MR8-F3/9TA30

ATTACHMENT

MR8-A507 MR8-AA07 MR8-AA07DK MR8-AV307 MR8-AVA07 MR8-AVA07DK

MR8-A510 MR8-AA10 MR8-AA10DK MR8-AV310 MR8-AVA10 MR8-AVA10DK

Circle indicates other compatible attachments:

- AF01 & AF01R
- AF02 & AF02R
- AF03

MR8™ Oval

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	14 cm Large Bore
	4.0	6.4	MR8-7OV40		MR8-10OV40	MR8-14OV40
	4.0	9.5	MR8-7OV40L			
	4	6.4			MR8-10OV40D	
	5.5	8.7		MR8-9OV55		MR8-14OV55

ATTACHMENT

MR8-A507 MR8-AA07 MR8-AA07DK MR8-AV307 MR8-AVA07 MR8-AVA07DK

MR8-A510 MR8-AA10 MR8-AA10DK MR8-AV310 MR8-AVA10 MR8-AVA10DK

MR8-A514 MR8-AA14 MR8-AA14DK MR8-AV314 MR8-AVA14 MR8-AVA14DK

MR8™ Tapered - Reverse Taper

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	14 cm Large Bore
	3.2	3.4	MR8-14RT32
	6.4	6.1	MR8-14RT64

ATTACHMENT

MR8-A514 MR8-AA15 MR8-AA14DK MR8-AV314 MR8-AVA14 MR8-AVA14DK

MR8™ Clearview™ SD/SP Ball

TOOL TYPE	Head Diameter (mm)	Bend	12 cm	14 cm
	3.0	Distal	MR8-SD12BA30	
	4.0	Distal	MR8-SD12BA40	
	3.0	Proximal	MR8-SP12BA30	MR8-SP14BA30
	4.0	Proximal	MR8-SP12BA40	MR8-SP14BA40

MR8™ Clearview™ SD/SP Matchhead Diamond

TOOL TYPE	Head Diameter (mm)	Bend	12 cm	14 cm
	2.5	Distal	MR8-SD12MH25D	
	3.0	Distal	MR8-SD12MH30D	
	2.5	Proximal	MR8-SP12MH25D	MR8-SP14MH25D
	3.0	Proximal	MR8-SP12MH30D	MR8-SP14MH30D

MR8™ Clearview™ SD/SP Matchhead

TOOL TYPE	Head Diameter (mm)	Bend	12 cm	14 cm
	2.5	Distal	MR8-SD12MH25	
	2.5	Distal	MR8-SD12MH25T	
	3.0	Distal	MR8-SD12MH30	
	3.0	Distal	MR8-SD12MH30T	
	2.5	Proximal	MR8-SP12MH25	MR8-SP14MH25
	2.5	Proximal	MR8-SP12MH25T	MR8-SP14MH25T
	3.0	Proximal	MR8-SP12MH30	MR8-SP14MH30
	3.0	Proximal	MR8-SP12MH30T ✔	MR8-SP14MH30T ✔

✔ = Navigation Compatible

MR8™ Clearview™ LP Ball

TOOL TYPE	Head Diameter (mm)	5 cm	7 cm
	1.0	MR8-LP05BA10	MR8-LP07BA10
	1.5	MR8-LP05BA15	MR8-LP07BA15
	2.0	MR8-LP05BA20	MR8-LP07BA20
	3.0	MR8-LP05BA30	MR8-LP07BA30
	4.0	MR8-LP05BA40	MR8-LP07BA40

41 · 41.43 · 41.45 · 47 · 49 · 51

MR8™ Clearview™ LP Ball Diamond

TOOL TYPE	Head Diameter (mm)	5 cm	7 cm
	0.5	MR8-LP05BA05D	
	0.8	MR8-LP05BA08D	
	1.0	MR8-LP05BA10D ✔	MR8-LP07BA10D ✔
	1.2	MR8-LP05BA12D	
	1.5	MR8-LP05BA15D	
	2.0	MR8-LP05BA20D	MR8-LP07BA20D
	3.0	MR8-LP05BA30D	MR8-LP07BA30D
	4.0	MR8-LP05BA40D	MR8-LP07BA40D

42 · 44 · 46 · 48 · 50 · 52

MR8™ Clearview™ LP Ball Diamond Coarse

TOOL TYPE	Head Diameter (mm)	5 cm	7 cm
	2.0	MR8-LP05BA20DC	MR8-LP07BA20DC
	3.0	MR8-LP05BA30DC	MR8-LP07BA30DC
	4.0	MR8-LP05BA40DC	MR8-LP07BA40DC

✔ = Navigation Compatible

MR8™ Match Head - Fluted

✓= Navigation Compatible

TOOL TYPE	Head Dia. (mm)	Head Length (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	12 cm Small Bore	14 cm Large Bore	15 cm Small Bore	18 cm Small Bore	21 cm Large Bore	26 cm Large Bore
	1.7	2.3	MR8-7MH17		MR8-10MH17			MR8-15MH17			
	2.2	3.8	MR8-7MH22		MR8-10MH22	MR8-12MH22		MR8-15MH22 ✓	MR8-18MH22		
	3.0	3.8	MR8-7MH30	MR8-9MH30 ✓	MR8-10MH30 ✓	MR8-12MH30	MR8-14MH30 ✓	MR8-15MH30	MR8-18MH30	MR8-21MH30	MR8-26MH30
	4.0	5.0		MR8-9MH40	MR8-10MH40		MR8-14MH40				
ATTACHMENT			MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AV307 MR8-AVA07 MR8-AVA07DK	MR8-AS09 MR8-AA09 MR8-AA09DK MR8-AV309 MR8-AVA09 MR8-AVA09DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AV310 MR8-AVA10 MR8-AVA10DK	MR8-AS12 MR8-AA12 MR8-AA12DK MR8-AV312 MR8-AVA12 MR8-AVA12DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AV314 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AV315 MR8-AVA15 MR8-AVA15DK	MR8-AS18 MR8-AA18 MR8-AA18DK	MR8-AS21 MR8-AA21 MR8-AA21DK	MR8-AS26

MR8™ Match Head - Diamond

TOOL TYPE	Head Dia. (mm)	Head Length (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	12 cm Small Bore	14 cm Large Bore	15 cm Small Bore	18 cm Small Bore	21 cm Large Bore	26 cm Large Bore
	1.7	2.3	MR8-7MH17D		MR8-10MH17D			MR8-15MH17D			
	2.2	3.8	MR8-7MH22D		MR8-10MH22D						
	3.0	3.8		MR8-9MH30D	MR8-10MH30D	MR8-12MH30D	MR8-14MH30D	MR8-15MH30D	MR8-18MH30D	MR8-21MH30D	MR8-26MH30D
	4.0	5.0					MR8-14MH40D	MR8-15MH40D			
ATTACHMENT			MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AV307 MR8-AVA07 MR8-AVA07DK	MR8-AS09 MR8-AA09 MR8-AA09DK MR8-AV309 MR8-AVA09 MR8-AVA09DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AV310 MR8-AVA10 MR8-AVA10DK	MR8-AS12 MR8-AA12 MR8-AA12DK MR8-AV312 MR8-AVA12 MR8-AVA12DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AV314 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AV315 MR8-AVA15 MR8-AVA15DK	MR8-AS18 MR8-AA18 MR8-AA18DK	MR8-AS21 MR8-AA21 MR8-AA21DK	MR8-AS26

MR8™ Match Head - Diamond Coarse

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	9 cm Large Bore	10 cm Small Bore	14 cm Large Bore	15 cm Small Bore
	3.0	3.8	MR8-9MH30DC	MR8-10MH30DC	MR8-14MH30DC	MR8-15MH30DC
ATTACHMENT			MR8-AS09 MR8-AA09 MR8-AA09DK MR8-AV309 MR8-AVA09 MR8-AVA09DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AV310 MR8-AVA10 MR8-AVA10DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AV314 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AV315 MR8-AVA15 MR8-AVA15DK

MR8™ Match Head - Symmetri

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	14 cm Large Bore
	3.0	3.8	MR8-14MH30T
ATTACHMENT			MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AV314 MR8-AVA14 MR8-AVA14DK

MR8™ Ball - Fluted

✔= Navigation Compatible

TOOL TYPE	Head Diameter (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	12 cm Small Bore	14 cm Large Bore	15 cm Small Bore	18 cm Small Bore	21 cm Large Bore	26 cm Large Bore
	0.5	MR8-7BA05L								
	1.0	MR8-7BA10 MR8-7BA10F MR8-7BA10FL MR8-7BA10L ✔		MR8-10BA10 MR8-10BA10F						
	1.5	MR8-7BA15 MR8-7BA15L MR8-7BA15FL MR8-7BA15F								
	2.0	MR8-7BA20 MR8-7BA20F MR8-7BA20L MR8-7BA20FL		MR8-10BA20 MR8-10BA20F	MR8-12BA20	MR8-14BA20	MR8-15BA20			
	2.5	MR8-7BA25 MR8-7BA25F MR8-7BA25L MR8-7BA25FL				MR8-14BA25				
	3.0	MR8-7BA30 MR8-7BA30F MR8-7BA30L MR8-7BA30FL	MR8-9BA30	MR8-10BA30 MR8-10BA30F MR8-10BA30FL	MR8-12BA30	MR8-14BA30	MR8-15BA30	MR8-18BA30		MR8-26BA30
	3.5	MR8-7BA35 MR8-7BA35FL MR8-7BA35L								
	4.0	MR8-7BA40 MR8-7BA40F MR8-7BA40L	MR8-9BA40	MR8-10BA40 MR8-10BA40F	MR8-12BA40	MR8-14BA40 ✔ MR8-14BA40F	MR8-15BA40			MR8-26BA40
	5.0	MR8-7BA50 MR8-7BA50F	MR8-9BA50 ✔	MR8-10BA50 MR8-10BA50F MR8-10BA50FL	MR8-12BA50	MR8-14BA50 ✔	MR8-15BA50		MR8-21BA50	MR8-26BA50
	6.0	MR8-7BA60 MR8-7BA60F	MR8-9BA60	MR8-10BA60 MR8-10BA60F	MR8-12BA60	MR8-14BA60	MR8-15BA60		MR8-21BA60	MR8-26BA60
	7.0	MR8-7BA70								
	7.5		MR8-9BA75			MR8-14BA75			MR8-21BA75	MR8-26BA75
	8.0	MR8-7BA80								
	9.0		MR8-9BA90			MR8-14BA90			MR8-21BA90	MR8-26BA90
ATTACHMENT		MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AVS07 MR8-AVA07 MR8-AVA07DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AVS10 MR8-AVA10 MR8-AVA10DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AVS10 MR8-AVA10 MR8-AVA10DK	MR8-AS12 MR8-AA12 MR8-AA12DK MR8-AVS12 MR8-AVA12 MR8-AVA12DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AVS14 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AVS15 MR8-AVA15 MR8-AVA15DK	MR8-AS18 MR8-AA18 MR8-AA18DK	MR8-AS21 MR8-AA21 MR8-AA21DK	MR8-AS26

MR8™ Ball - Diamond

✔= Navigation Compatible

TOOL TYPE	Head Diameter (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	12 cm Small Bore	14 cm Large Bore	15 cm Small Bore	18 cm Small Bore	21 cm Large Bore	26 cm Large Bore
	0.5	MR8-7BA05DL								
	0.8	MR8-7BA08DL								
	1.0	MR8-7BA10D MR8-7BA10DF MR8-7BA10DL MR8-7BA10DFL	MR8-9BA10D	MR8-10BA10D MR8-10BA10DF MR8-10BA10DFL						
	1.2	MR8-7BA12DL								
	1.5	MR8-7BA15D MR8-7BA15DF MR8-7BA15DL MR8-7BA15DFL		MR8-10BA15DF						
	2.0	MR8-7BA20D MR8-7BA20DF MR8-7BA20DL MR8-7BA20DFL	MR8-9BA20D	MR8-10BA20D ✔ MR8-10BA20DF MR8-10BA20DFL	57	MR8-14BA20D ✔ 55 MR8-14BA15D	MR8-15BA20D			
	2.5	MR8-7BA25D MR8-7BA25DF MR8-7BA25DL MR8-7BA25DFL	56							
	3.0	MR8-7BA30D MR8-7BA30DF MR8-7BA30DL MR8-7BA30DFL	MR8-9BA30D	MR8-10BA30D MR8-10BA30DF MR8-10BA30DFL	MR8-12BA30D	MR8-14BA30D 55	MR8-15BA30D	MR8-18BA30D 55		
	3.5	MR8-7BA35D MR8-7BA35DL								
	4.0	MR8-7BA40D MR8-7BA40DF MR8-7BA40DL	MR8-9BA40D	MR8-10BA40D ✔ MR8-10BA40DF	MR8-12BA40D	MR8-14BA40D ✔ 55	MR8-15BA40D	55		MR8-26BA40D
	5.0	MR8-7BA50D MR8-7BA50DF MR8-7BA50DFL	MR8-9BA50D	MR8-10BA50D MR8-10BA50DF	MR8-12BA50D	MR8-14BA50D 55	MR8-15BA50D	55		MR8-26BA50D
	6.0	MR8-7BA60D MR8-7BA60DF	MR8-9BA60D	MR8-10BA60D MR8-10BA60DF	MR8-12BA60D	MR8-14BA60D 55	MR8-15BA60D	55	MR8-21BA60D	MR8-26BA60D
	7.0	MR8-7BA70D								
	7.5		MR8-9BA75D			MR8-14BA75D				
	8.0	MR8-7BA80D								
	9.0		MR8-9BA90D			MR8-14BA90D				
ATTACHMENT		MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AVS07 MR8-AVA07 MR8-AVA07DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AVS10 MR8-AVA10 MR8-AVA10DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AVS10 MR8-AVA10 MR8-AVA10DK	MR8-AS12 MR8-AA12 MR8-AA12DK MR8-AVS12 MR8-AVA12 MR8-AVA12DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AVS14 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AVS15 MR8-AVA15 MR8-AVA15DK	MR8-AS18 MR8-AA18 MR8-AA18DK	MR8-AS21 MR8-AA21 MR8-AA21DK	MR8-AS26

15 mm Ball Diamond

	15.0	MR8-21BA150D

ATTACHMENT MR8-AS21 MR8-AA21 MR8-AA21DK

MR8™ Ball - Carbide

TOOL TYPE	Head Diameter (mm)	7 cm Small Bore	10 cm Small Bore	14 cm Large Bore
	1.0	MR8-7BA10C		
	2.0	MR8-7BA20C		
	3.0	MR8-7BA30C		
	4.0	MR8-7BA40C	MR8-10BA40C	
	5.0	MR8-7BA50C		MR8-14BA50C
	6.0	MR8-7BA60C		
	7.0	MR8-7BA70C		
	8.0	MR8-7BA80C		
ATTACHMENT		MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AVS07 MR8-AVA07 MR8-AVA07DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AVS10 MR8-AVA10 MR8-AVA10DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AVS14 MR8-AVA14 MR8-AVA14DK

MR8™ Ball - Symmetri

TOOL TYPE	Head Diameter (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	12 cm Small Bore	14 cm Large Bore	15 cm Small Bore	18 cm Small Bore
	3.0	MR8-7BA30T	MR8-9BA30T	MR8-10BA30T	MR8-12BA30T	MR8-14BA30T	MR8-15BA30T	
	4.0	MR8-7BA40T	MR8-9BA40T	MR8-10BA40T	MR8-12BA40T	MR8-14BA40T	MR8-15BA40T	MR8-18BA40T
	5.0	MR8-7BA50T	MR8-9BA50T			MR8-14BA50T	MR8-15BA50T	MR8-18BA50T
	6.0	MR8-7BA60T	MR8-9BA60T			MR8-14BA60T		
	7.5	MR8-7BA75T				MR8-14BA75T		
ATTACHMENT		MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AVS07 MR8-AVA07 MR8-AVA07DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AVS10 MR8-AVA10 MR8-AVA10DK	MR8-AS12 MR8-AA12 MR8-AA12DK MR8-AVS12 MR8-AVA12 MR8-AVA12DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AVS14 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AVS15 MR8-AVA15 MR8-AVA15DK	MR8-AS18 MR8-AA18 MR8-AA18DK

MR8™ Acorn - Fluted

TOOL TYPE	Head Diameter (mm)	Head Length (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	14 cm Large Bore	15 cm Small Bore	21 cm Large Bore	26 cm Large Bore
	5.0	7.0	MR8-7AC50	MR8-9AC50	MR8-10AC50	MR8-14AC50	MR8-15AC50		
	6.0	7.7	MR8-7AC60	MR8-9AC60	MR8-10AC60	MR8-14AC60	MR8-15AC60	MR8-21AC60	MR8-26AC60
	7.5	9.4		MR8-9AC75		MR8-14AC75		MR8-21AC75	MR8-26AC75
	9.0	11.4		MR8-9AC90		MR8-14AC90		MR8-21AC90	MR8-26AC90
ATTACHMENT			MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AVS07 MR8-AVA07 MR8-AVA07DK	MR8-AS09 MR8-AA09 MR8-AA09DK MR8-AVS09 MR8-AVA09 MR8-AVA09DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AVS10 MR8-AVA10 MR8-AVA10DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AVS14 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AVS15 MR8-AVA15 MR8-AVA15DK	MR8-AS21 MR8-AA21 MR8-AA21DK	MR8-AS26

MR8™ Ball - Diamond Coarse

TOOL TYPE	Head Diameter (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	14 cm Large Bore	15 cm Small Bore
	1.0	MR8-7BA10DC MR8-7BA10DCL				
	1.5	MR8-7BA15DCL				
	2.0	MR8-7BA20DC MR8-7BA20DCL	MR8-9BA20DC			
	2.5	MR8-7BA25DC				
	3.0	MR8-7BA30DC MR8-7BA30DCL	MR8-9BA30DC	MR8-10BA30DC	MR8-14BA30DC	
	3.5	MR8-7BA35DCL				
	4.0	MR8-7BA40DC MR8-7BA40DCL	MR8-9BA40DC	MR8-10BA40DC	MR8-14BA40DC	
	5.0	MR8-7BA50DC	MR8-9BA50DC	MR8-10BA50DC	MR8-14BA50DC	MR8-15BA50DC
	6.0	MR8-7BA60DC	MR8-9BA60DC		MR8-14BA60DC	
	7.0	MR8-7BA70DC				
ATTACHMENT		MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AV507 MR8-AVA07 MR8-AVA07DK	MR8-AS09 MR8-AA09 MR8-AA09DK MR8-AV509 MR8-AVA09 MR8-AVA09DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AV510 MR8-AVA10 MR8-AVA10DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AV514 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AV515 MR8-AVA15 MR8-AVA15DK

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MR8™ Ball - Diamond Extra Coarse

TOOL TYPE	Head Diameter (mm)	7 cm Small Bore	9 cm Large Bore	10 cm Small Bore	12 cm Small Bore	14 cm Large Bore	15 cm Small Bore	21 cm Large Bore	26 cm Large Bore
	1.0	MR8-7BA10DXFL							
	1.5	MR8-7BA15DXFL							
	2.0	MR8-7BA20DXFL							
	3.0	MR8-7BA30DXFL							
	4.0	MR8-7BA40DX	MR8-9BA40DX	MR8-10BA40DX	MR8-12BA40DX	MR8-14BA40DX	MR8-15BA40DX	MR8-21BA40DX	
	5.0	MR8-7BA50DX	MR8-9BA50DX	MR8-10BA50DX		MR8-14BA50DX	MR8-15BA50DX	MR8-21BA50DX	MR8-26BA50DX
	6.0	MR8-7BA60DX	MR8-9BA60DX	MR8-10BA60DX	MR8-12BA60DX	MR8-14BA60DX		MR8-21BA60DX	
	7.0			MR8-10BA70DX		MR8-14BA70DX		MR8-21BA70DX	MR8-26BA70DX
	8.0					MR8-14BA80DX		MR8-21BA80DX	
ATTACHMENT		MR8-AS07 MR8-AA07 MR8-AA07DK MR8-AV507 MR8-AVA07 MR8-AVA07DK	MR8-AS09 MR8-AA09 MR8-AA09DK MR8-AV509 MR8-AVA09 MR8-AVA09DK	MR8-AS10 MR8-AA10 MR8-AA10DK MR8-AV510 MR8-AVA10 MR8-AVA10DK	MR8-AS12 MR8-AA12 MR8-AA12DK MR8-AV512 MR8-AVA12 MR8-AVA12DK	MR8-AS14 MR8-AA14 MR8-AA14DK MR8-AV514 MR8-AVA14 MR8-AVA14DK	MR8-AS15 MR8-AA15 MR8-AA15DK MR8-AV515 MR8-AVA15 MR8-AVA15DK	MR8-AS21 MR8-AA21 MR8-AA21DK	MR8-AS26

Midas Rex® MR7 Motor Kits

Product	Description	Quantity
PK700	Midas Rex® MR7 Foot Control Motor Kit	
Kit includes the following:		
PM700	Midas Rex® MR7 Pneumatic Motor	1
PC700	Midas Rex® MR7 Pneumatic Foot Control	1
PC710	Midas Rex® MR7 Regulator Hose	1
PA700	Midas Rex® MR7 Lubricant/Diffuser Cartridge	4-pk
PA600	Midas Rex® MR7 Instrument Case 3/4 DIN	1
175031EN	Midas Rex® Instructions for Use Manual, English	1
175032EN	Midas Rex® MR7 Preventative Maintenance Manual, English	1
PA300	Cleaning Brush, 1.2 mm	1
PA310	Cleaning Brush, 2.4 mm	1
PA320	Cleaning Brush, 3.2 mm	1

Product	Description	Quantity
PK710	Midas Rex® MR7 Finger Control Motor Kit	
Kit includes the following:		
PM710	Midas Rex® MR7 Touch Pneumatic Motor	1
PC700	Midas Rex® MR7 Pneumatic Foot Control	1
PC710	Midas Rex® MR7 Regulator Hose	1
PA700	Midas Rex® MR7 Lubricant/Diffuser Cartridge	4-pk
PA600	Midas Rex® MR7 Instrument Case 3/4 DIN	1
175031EN	Midas Rex® Instructions for Use Manual, English	1
175032EN	Midas Rex® MR7 Preventative Maintenance Manual, English	1
PA300	Cleaning Brush, 1.2 mm	1
PA310	Cleaning Brush, 2.4 mm	1
PA320	Cleaning Brush, 3.2 mm	1

58.2.

MR7 accessories

MR7 pneumatic control unit

The pneumatic control unit (Figure 8-1) provides variable speed motor control through a foot pedal. It also allows the user to switch between finger and foot control of the motor (if applicable).

Regulator

The Legend Regulator (Figure 8-2) controls the delivery pressure of compressed gas to the Legend pneumatic control unit. The pressure gauges indicate cylinder pressure (right gauge) and delivery pressure (left gauge).

Note: Outlet pressure gauge accurate to +/- 12 psi.

Regulator hose

Connects the gas source to the pneumatic control unit to deliver compressed gas.

MR7 instrument case

The instrument case (Figure 8-3) is used to organize equipment and to secure instruments during sterilization and transport.

Motor wrench

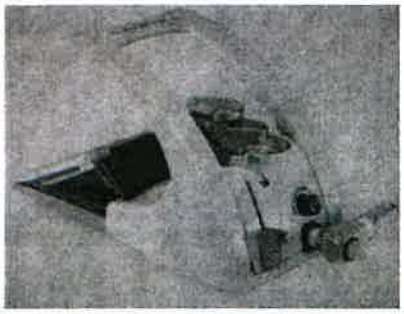
Used to align arrows on motor collet flats prior to installation of a Legend attachment (Figure 8-4).

Lubricant/diffuser cartridge (PA700)

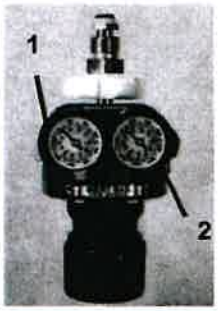
581 The lubricant/diffuser cartridge (Figure 8-5) provides lubrication to the motor and filters oil from exhausted air. Can be used before sterilization of the instrument, for internal protection of the instrument.

Caution: The Legend lubricant/diffuser cartridge and the MR7 lubricant/diffuser cartridge are not interchangeable.

8-1 **MR7 pneumatic control unit**



8-2 **Regulator**



1. Delivery pressure gauge
2. Cylinder pressure gauge

8-3 **MR7 instrument case (PA700)**

8-4 **Motor wrench**

8-5 **Lubricant/diffuser cartridge**

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