

Exclusively foot & ankle **20**  
**Paragon**<sup>®</sup>



**GORILLA**<sup>®</sup>

## **SURGICAL TECHNIQUE GUIDE**

MTP Arthrodesis

### Acknowledgment:

Paragon 28® would like to thank Mark Myerson, MD for his contribution to the development of the surgical technique guide.

## PRODUCT DESCRIPTION

The Paragon 28® Gorilla® MTP Plating System was designed to provide surgeons versatility in plate selection for MTP Arthrodesis procedures, assistance with joint preparation and the ability to position the hallux in all 3 planes during temporary fixation. The system has 32 anatomically contoured plating options to address primary, revision and graft-spanning arthrodesis. The primary and short arthrodesis plates are offered in 0°, 5° and 10° of dorsiflexion to account for differences in anatomy. The revision arthrodesis plates are thicker and provide more holes proximally to avoid previous screw placement. The graft-spanning plates allow for placement of the Paragon 28® PRESERVE™ MTP Length Restoring Graft. All Gorilla® MTP plate holes accommodate Gorilla® R3CON™ 2.7, 3.5 and 4.2 mm locking and non-locking screws.

The instrumentation provided in the Gorilla® MTP Plating System was designed to address joint preparation while facilitating compression and/or stability at the arthrodesis site. The patented Precision® Guide mates with the desired MTP plate to provide five trajectories of guide wire paths to allow for insertion of a 3.0 or 3.5 mm cannulated Mini-Monster® crossing screw across the arthrodesis site, while avoiding on-axis locking and non-locking plate screws within the construct. Spin Guard Reamers are available in the set to assist the surgeon in cartilage removal and joint preparation prior to plate and screw fixation.

The Gorilla MTP Plating System is available in a SlimLine configuration for streamlined use in Primary MTP Arthrodesis cases. Plate and screw sizes available in the SlimLine kit are marked with an “SL” icon in the following section, and the complete SlimLine kit contents are listed on page 11.



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# PLATE OFFERING

## MTP PLATE OFFERING

### PRIMARY PLATES

- Left and Right side specific
- 1.3 mm thickness
- Available in small, medium and large
- 3 holes in proximal phalanx



Small



Medium



Large

### AVAILABLE PLATE ANGLES



0° dorsiflexion



5° dorsiflexion



10° dorsiflexion

### SHORT PLATE

- Left and Right side specific
- 1.3 mm thickness
- 2 holes in proximal phalanx



### AVAILABLE PLATE ANGLES



0° dorsiflexion



5° dorsiflexion



10° dorsiflexion

### REVISION PLATES

- Left and Right side specific
- 1.6 mm thickness
- Available in small, medium and large

### PLATE ANGLE



5° dorsiflexion



Small



Medium



Large

### GRAFT SPANNING PLATES

- Left and Right side specific
- 1.6 mm thickness
- Built to span PRESERVE™ MTP Graft



### PLATE ANGLE



5° dorsiflexion

## FEATURED INSTRUMENTATION

### PRECISION GUIDE MTP



1.0 mm Precision Guide K-wire Sleeve



Mini-Monster® 3.0 mm screw



1.2 mm Precision Guide K-wire Sleeve



Mini-Monster® 3.5 mm screw



The following instruments are included in both the full and SlimLine Primary MTP Arthrodesis kits.



Precision Guide Set Screw

Precision Guide Arm

- Patented
- Allows a lag screw to cross the joint while avoiding the locking and non-locking plate screws in the construct

### SPIN GUARDS AND REAMERS



Patented Female Spin Guard



Female Reamer



Patent Pending Male Spin Guard



Male Reamer

### K-WIRE



1.6 x 150 mm K-wire

## ANCILLARY IMPLANTS

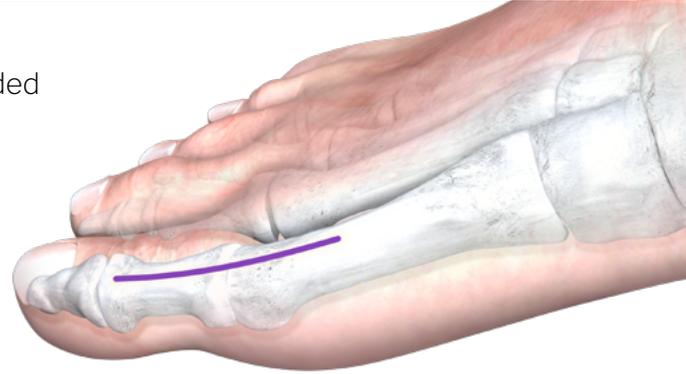
### PRESERVE™ MTP LENGTH RESTORING GRAFT

- Can help to restore length in cases of a short 1<sup>st</sup> metatarsal or revision procedure
- Available in 19 mm diameter with lengths of 5, 8, 10, 15 and 20 mm
- Available in 21 mm diameter with lengths of 5, 8 and 10 mm



**MTP Arthodesis****INCISION/EXPOSURE**

Supine patient positioning with fluoroscopy available is recommended for this procedure. A dorsomedial incision over the 1<sup>st</sup> metatarsophalangeal joint is recommended. Soft tissue dissection is continued to expose the 1<sup>st</sup> metatarsophalangeal joint. Release the soft tissue to obtain exposure of the articular surfaces of the 1<sup>st</sup> metatarsal head and hallux proximal phalanx base.

**JOINT PREPARATION**

**After exposing the joint surfaces, remove any osteophytes surrounding the joint using a saw or osteotome. The method of cartilage resection is according to surgeon preference. The method for using the Paragon 28® MTP reamers is described below.**

**PREPARATION OF THE 1<sup>st</sup> METATARSAL HEAD:**

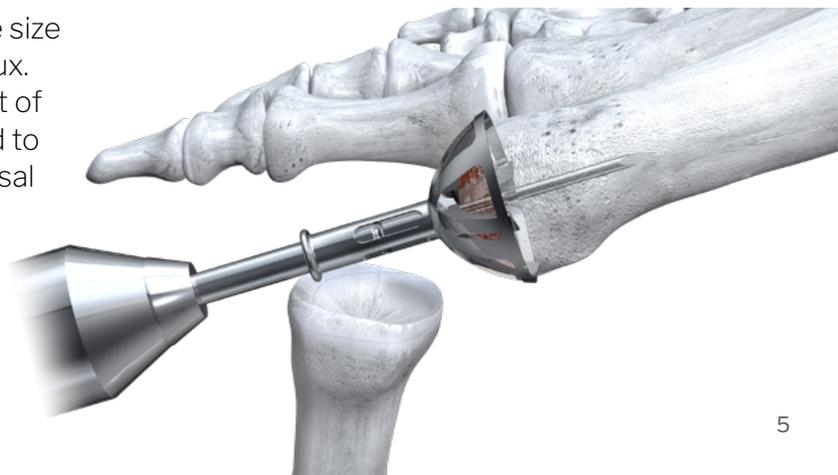
A 1.6 mm K-wire is inserted down the central shaft of the 1<sup>st</sup> metatarsal head, from distal to proximal. Select the female reamer size based on the 1<sup>st</sup> metatarsal head size, with the reamer as wide or slightly wider than the diameter of the cartilage covering the 1<sup>st</sup> metatarsal head.



Connect the matching female spin guard to the end of the female reamer. Attach the construct to a powered driver and slide over the 1.6 mm K-wire. Begin motion of the reamer prior to making contact with the 1<sup>st</sup> metatarsal head.

Remove all of the cartilage on the 1<sup>st</sup> metatarsal head, using the reamer in a pulsing motion to facilitate cartilage removal, if necessary. If the outer cartilage remains, go up a reamer size. If the reamer is too large, go down a size. Remove cartilage until bleeding subchondral bone is observed and take care not to over-shorten the 1<sup>st</sup> metatarsal.

Take note of the last reamer size used, as this will be the size designated for reaming the proximal phalanx of the hallux. When finished, remove the K-wire from the central shaft of the 1<sup>st</sup> metatarsal. A rongeur or curette can be employed to resect any cartilage or rough edges from the 1<sup>st</sup> metatarsal head joint surface.



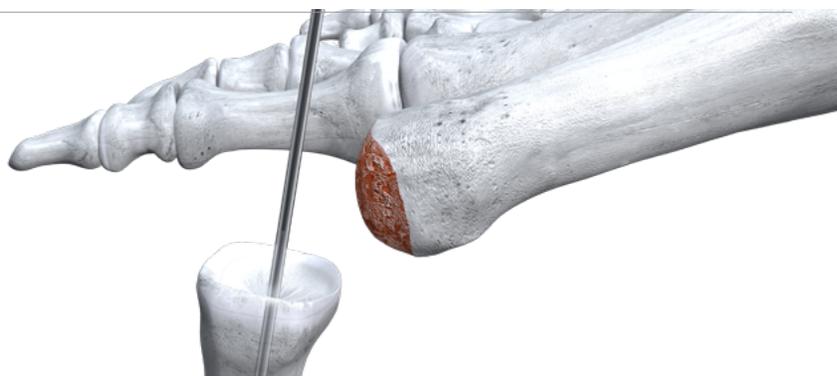
## JOINT PREPARATION

### PREPARATION OF THE PROXIMAL PHALANX BASE:

Insert the same 1.6 mm K-wire down the central shaft of the hallux proximal phalanx, from proximal to distal. The convex male reamer is selected to match the last size of reamer used on the 1<sup>st</sup> metatarsal head.



Remove all of the cartilage from the base of the hallux proximal phalanx until bleeding subchondral bone is observed. Remove the K-wire from the base of the hallux proximal phalanx. A rongeur or curette can be employed to resect any additional cartilage from the edges or joint surface. Subchondral bone preparation can be performed following reaming using the Paragon 28® subchondral drill or surgeon's preferred technique. If used, bone grafting material or a PRESERVE™ MTP Length Restoring Graft can be inserted at this time.



Attach the matching male spin guard to the end of the male reamer. The male reamer is placed over the K-wire and is secured to the powered driver. Begin motion of the reamer prior to contact with the proximal phalanx.



## TEMPORARY FIXATION



The correct alignment of the hallux can be determined with the assistance of the Paragon 28 Foot Plate. A K-wire is recommended to be inserted from proximal medial to distal lateral to serve as temporary fixation.

## PLATE SELECTION

An appropriately sized "Left" or "Right" MTP arthrodesis plate is selected at this time. The laser markings at the central aspect of the plate should align with the joint.

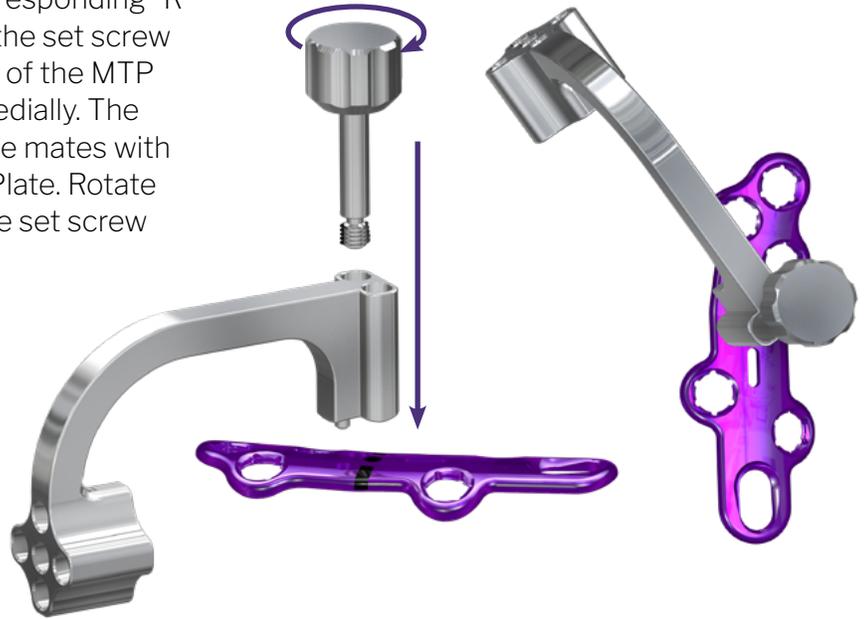
**TIP:** If a thicker plate is desired for a patient that may have difficulty with restricted weight-bearing following the procedure, a small revision plate (thickness 1.6 mm) may be used in lieu of a medium primary plate (thickness 1.3 mm), as the length is comparable.



## PERMANENT FIXATION

Insert the Precision Guide set screw into the corresponding “R” or “L” hole of the Precision Guide Arm such that the set screw is aligned with the larger of the two central holes of the MTP Plate and the Precision Guide Arm is oriented medially. The small peg on the underside of the Precision Guide mates with the smaller of the two central holes of the MTP Plate. Rotate the knob clockwise to secure the Precision Guide set screw to the MTP plate.

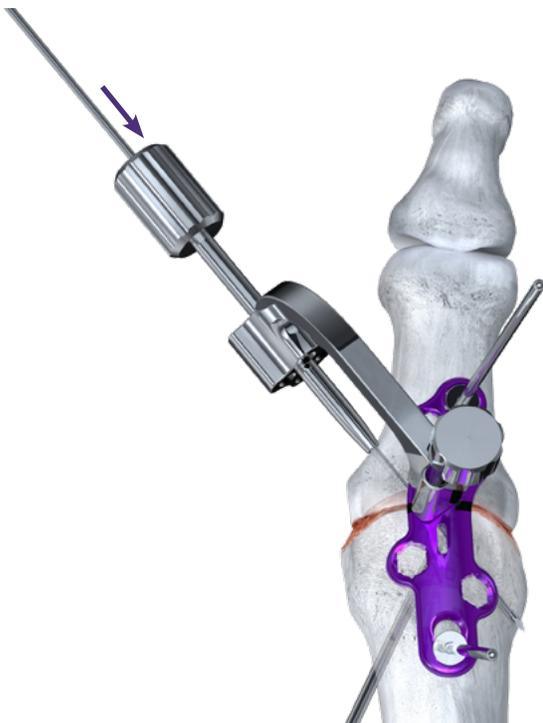
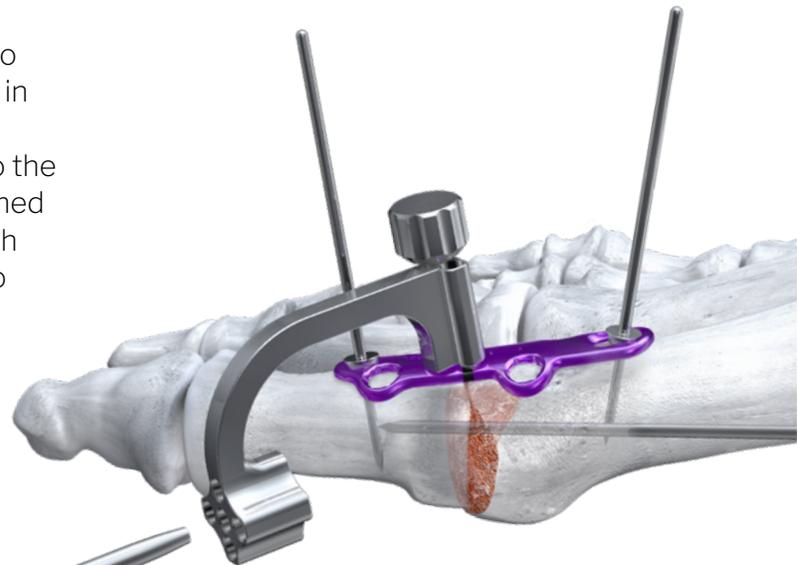
**NOTE:** Use of the Precision Guide MTP is optional. It may be used as demonstrated below, or it may be attached to the plate after plate screw fixation. In the latter case, a fully threaded crossing screw is recommended.



Secure the MTP plate (with the attached Precision Guide) to the bone using olive wires. One olive wire should be placed in the proximal aspect of the compression slot.

Insert the guide wire sleeve for the selected screw size into the Precision Guide Arm. If soft tissue dissection is not performed around the area of the guide wire sleeve, a stab incision with blunt soft tissue separation can be made in the skin prior to driving the guide wire through the arthrodesis site.

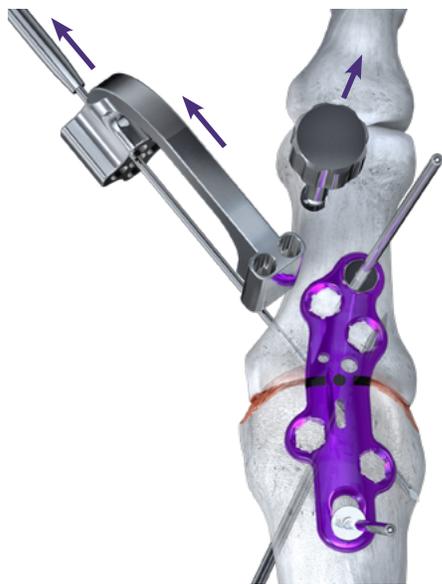
**TIP:** The central hole of the Precision Guide generally works for most patients. For larger patients, the plantar hole may work best. The inner, and outer holes may help prevent skiving if that is a concern.



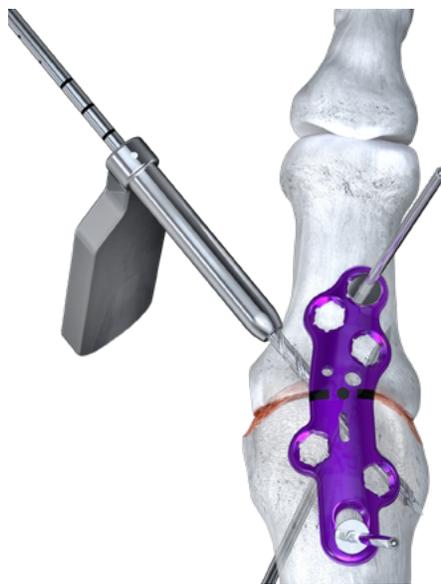
Insert the guide wire for the selected crossing screw size into the guide wire sleeve such that it crosses the arthrodesis site at a desired location.

The Precision Guide can be used during initial permanent fixation. In this case (as shown), no further compression across the arthrodesis site should be attempted following crossing screw placement, as this will result in loosening of the crossing screw.

## PERMANENT FIXATION



The position and length of the guide wire is confirmed using fluoroscopy. When correct, remove the Precision Guide from the plate by rotating the set screw in a counter-clockwise manner and sliding the Precision Guide Arm off of the guide wire.

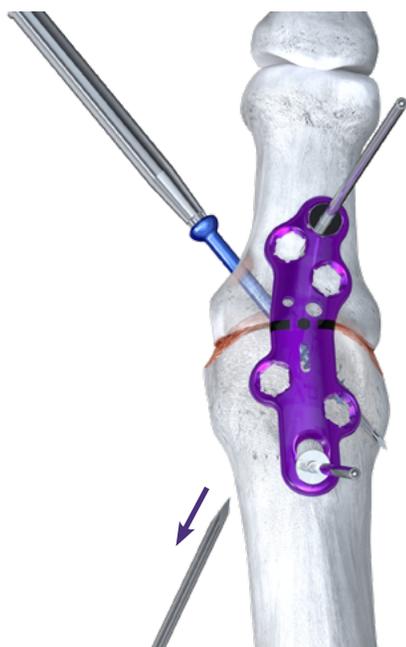


The drill and drill guide for the selected crossing screw diameter are slid over the guide wire and drilling is performed.

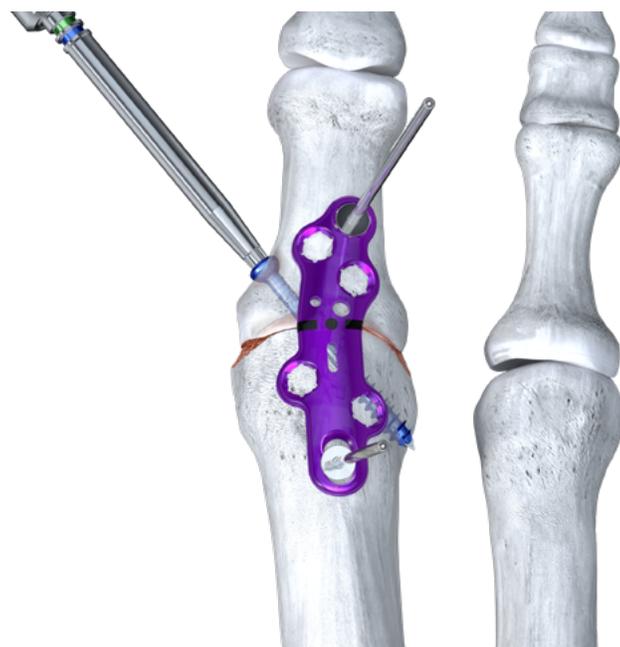


Countersinking for the headed screw is performed. If using a headless screw, countersink after measuring.

The depth gauge is used to determine screw length.



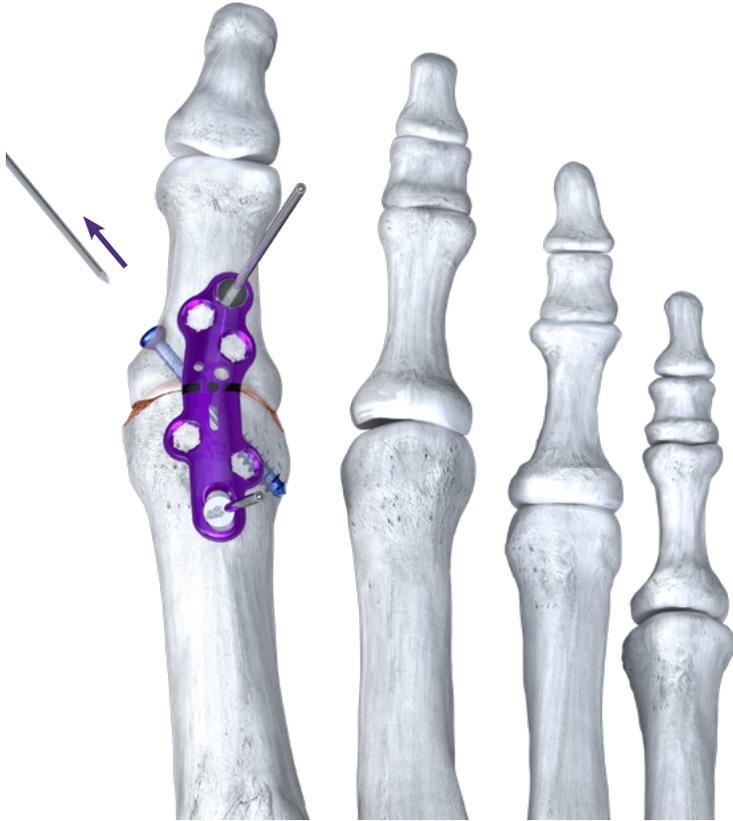
The selected crossing screw is inserted over the guide wire into the proximal phalanx.



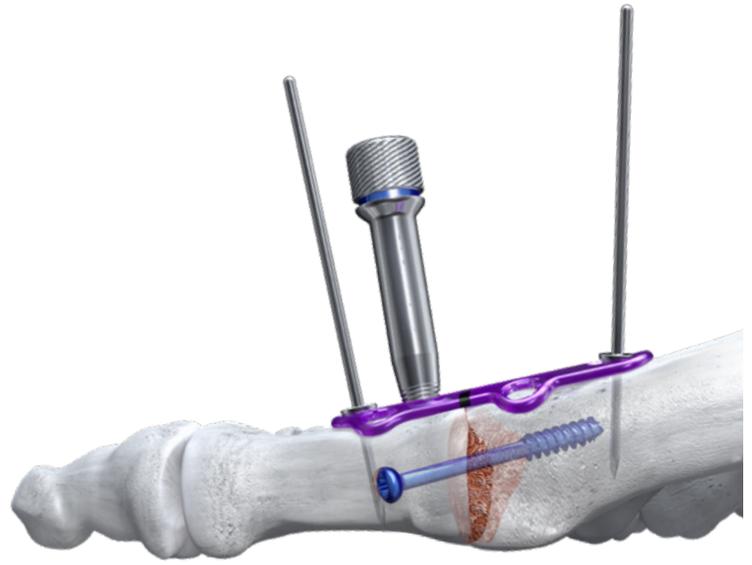
Complete screw insertion.

**TIP:** If a surgeon prefers to not use a crossing screw, or if a crossing screw is unable to be placed, eccentric drilling of the compression slot can be performed and compression can be achieved in this manner or by external compression of the joint prior to locking screw placement.

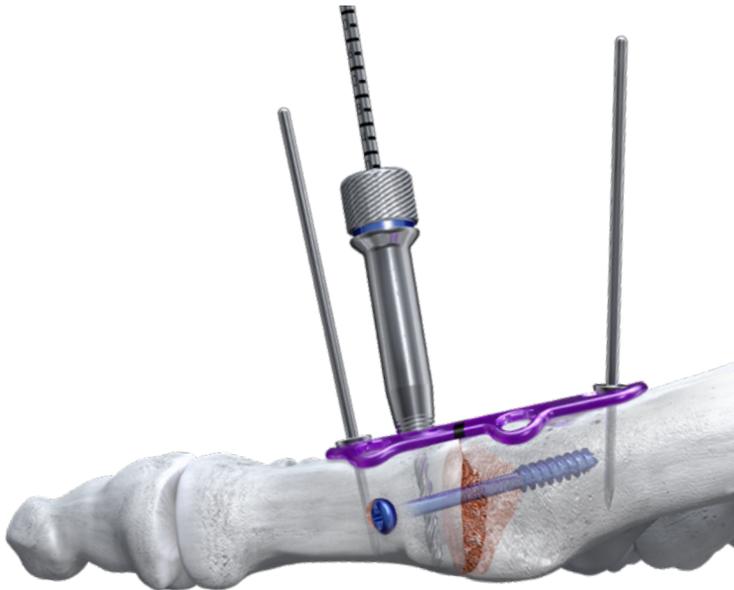
## PERMANENT FIXATION



Remove the guide wire.



Insert a threaded drill tower into one of the distal screw holes corresponding to desired plate screw diameter.



Drill using the drill corresponding to the desired plate screw diameter.

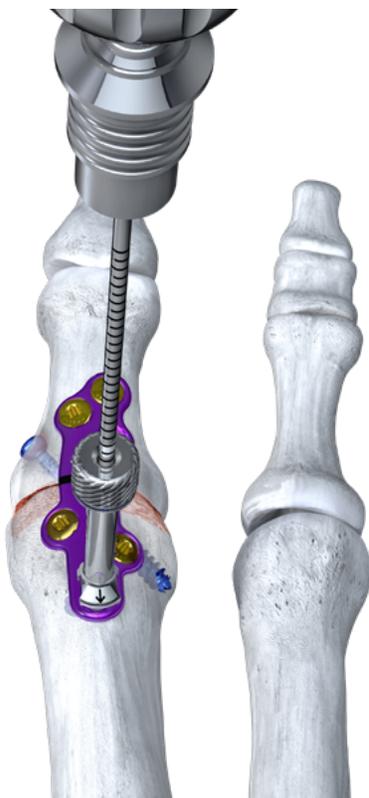


Screw length can be measured using the provided depth gauge or by measuring off of the drill using the drill guide. Insert the plate screw using the provided driver. It is advised to avoid final tightening of the distal plate screws into the locked position until proximal plate screws are inserted.

## PERMANENT FIXATION



Insert an oblong drill guide into the plate compression slot. The oblong drill guide can be reversed with the arrow pointing away from the joint (as shown) to insert a non-locking screw into the compression slot without creating compression.



Drill using the drill corresponding to the desired screw diameter.

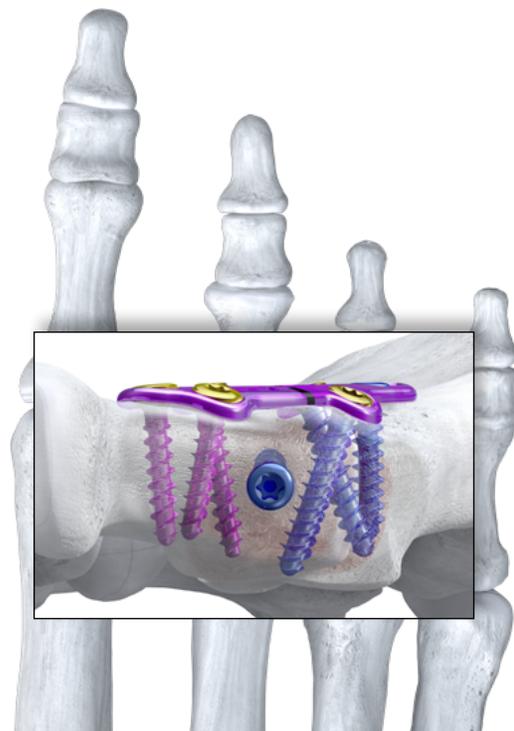


Insert the screw using the driver provided.

**TIP:** If the surgeon prefers to create compression via the compression slot, insert distal plate (screw)s first. Use the compression drill guide with the arrow pointing towards the joint to eccentrically drill. Place a non-locking screw to achieve compression. The cross screw would be placed last in this scenario.

Insert screws in the remaining screw holes, as desired.

Confirm final screw length and placement using fluoroscopy.



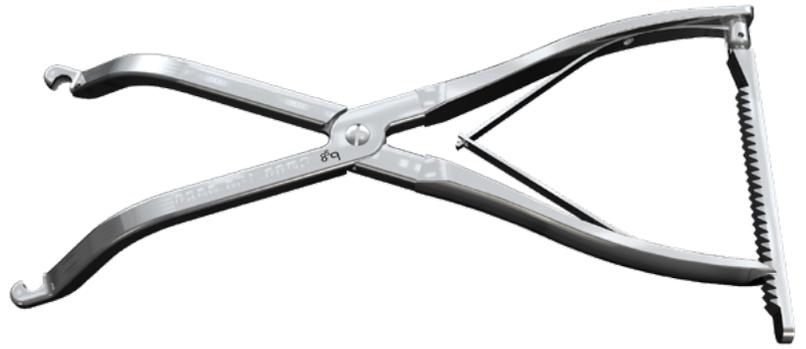
## CLOSURE

Proceed to incision closure or concomitant procedures at this time.

## ANCILLARY INSTRUMENTATION – REDUCTION CLAMP

A **Reduction Clamp** is available as a special-order instrument to assist in MTP plating procedures. This clamp utilizes custom olive wires that secure the plate to the bone as well as provide a spherical attachment point for the Reduction Clamp arms.

If using, the following procedure is recommended:

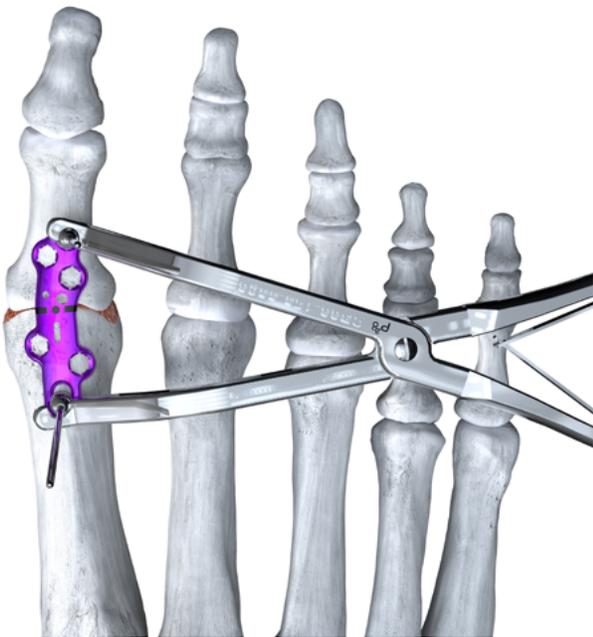


Follow the beginning of the MTP Arthrodesis technique as shown through Plate Selection (pages 5-6)

Without using the Precision Guide, secure the appropriately selected MTP plate to the anatomy using olive wires through the distal and proximal plate holes as shown on page 7.

Remove the temporary fixation wire. Attach the Reduction Clamp to the olive wires, then use the clamp to apply the desired amount of compression across the joint space as shown here.

**NOTE:** Alternatively, the k-wire can be advanced retrograde into the first metatarsal to secure the alignment of the hallux and left in during application and activation of the Reduction Clamp.



When the desired compression is achieved, follow the instructions on pages 9-10 to drill and insert screws through the open plate holes.

Remove the Reduction Clamp and olive wires to allow drilling and screw insertion for the remaining plate holes.

If desired, use the Precision Guide and the instructions on pages 7-8 to place a fully-threaded crossing screw across the joint.

# GORILLA® MTP PRIMARY SYSTEM CASE

The Gorilla MTP Primary System Case is a SlimLine configuration of the Gorilla Plating System, designed to provide everything needed for a Primary MTP arthrodesis procedure in a more efficient caddy. More details on the differences between the full and SlimLine cases can be found on pages 2-3.

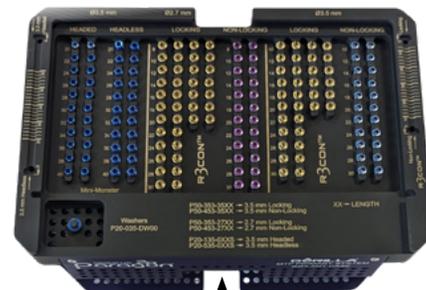
## MTP PRIMARY CASE

Contains Mini-AO handles, Precision Guide and Set Screws, Fenestration Perforator, Forceps, Drills, Locking Drill Guides, Countersinks, Drivers, and Plate Bending Bar.



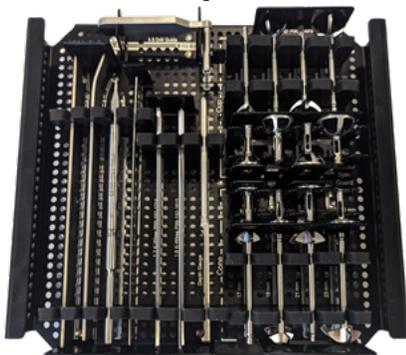
## IMPLANT CASE

Contains all Mini-Monster Screws, R3CON Plate Screws, Washers, and MTP Plates.



## INSTRUMENT TRAY

Contains K-wires, osteotomes, handheld Drill Guide, and all Male and Female MTP Spin Guard Reamers.



## FOOT PLATE



## GORILLA® MTP SLIM USABILITY

The Gorilla MTP Primary System Case is a SlimLine configuration of the Gorilla Plating System, designed to provide everything needed for a Primary MTP arthrodesis procedure in a more efficient caddy. More details on the differences between the full and SlimLine cases can be found on pages 2-3.

## GORILLA® MTP PLATING SYSTEM - INSTRUMENTS:

Part Number	Description	Use
P01-900-1702	MTP Spin Guard™ Female Reamer, 17mm	Reusable
P01-900-1703	MTP Spin Guard™ Male Reamer, 17mm	Reusable
P01-900-1902	MTP Spin Guard™ Female Reamer, 19mm	Reusable
P01-900-1903	MTP Spin Guard™ Male Reamer, 19mm	Reusable
P01-900-2102	MTP Spin Guard™ Female Reamer, 21mm	Reusable
P01-900-2103	MTP Spin Guard™ Male Reamer, 21mm	Reusable
P01-900-2302	MTP Spin Guard™ Female Reamer, 23mm	Reusable
P01-900-2303	MTP Spin Guard™ Male Reamer, 23mm	Reusable
P01-911-1701	MTP Spin Guard™ Male Reamer Protector Sleeve, 17mm	Reusable
P01-911-1702	MTP Spin Guard™ Female Reamer Protector Sleeve, 17mm	Reusable
P01-911-1901	MTP Spin Guard™ Male Reamer Protector Sleeve, 19mm	Reusable
P01-911-1902	MTP Spin Guard™ Female Reamer Protector Sleeve, 19mm	Reusable
P01-911-2101	MTP Spin Guard™ Male Reamer Protector Sleeve, 21mm	Reusable
P01-911-2102	MTP Spin Guard™ Female Reamer Protector Sleeve, 21mm	Reusable
P01-911-2301	MTP Spin Guard™ Male Reamer Protector Sleeve, 23mm	Reusable
P01-911-2302	MTP Spin Guard™ Female Reamer Protector Sleeve, 23mm	Reusable
P20-910-3500	Countersink, 3.5mm, Headed	Reusable
P20-915-3500	Countersink, 3.5 Headless	Reusable
P20-941-3500	Drill Guide, 3.5mm	Reusable
P20-951-2040	Depth Gauge (2.0 - 4.0mm)	Reusable
P51-900-1001	Locking Drill Guide, Tuffnek	Reusable
P51-900-1002	3.5 Locking Drill Guide, R3Con	Reusable
P51-901-3001	Easy Guide, Double-Sided, 2.7/3.5mm	Reusable
P51-901-3002	2.7/3.5 Cone Guide	Reusable
P51-903-3001	2.7 Compression Slot Gorilla R3Con, Drill Guide	Reusable
P51-903-3002	3.5 Compression Slot Gorilla R3Con, Drill Guide	Reusable
P51-910-1001	Threaded Plate Bending Bar	Reusable
P51-950-0001	Precision® Guide Set Screw, Short	Reusable
P51-950-0012	Guidewire Sleeve, 1.2mm	Reusable
P51-950-0103-01	MTP Precision® Guide	Reusable

## GORILLA® MTP PLATING SYSTEM - INSTRUMENTS:

Part Number	Description	Use
P99-000-AOMN	Mini-Ao, Ratchet Handle, Purple	Reusable
P99-000-AOSS	Mini-Ao, Non-Ratcheting Handle Streamline, Cannulated	Reusable
P99-100-2009	Bone Fenestration Perforator	Reusable
P99-150-0001	Screw Forceps	Reusable
P99-150-0005	K-Wire Hole Gauge & Ruler	Reusable
P99-150-0014	Depth Gauge Plate Screw, 70mm Screw	Reusable
P99-150-0035	Bone Fenestration Chisel	Reusable
P99-150-0041	Osteotome, Straight, 12mm	Reusable
P99-150-0141	Osteotome, Curved, 12mm	Reusable
P99-190-TT10	Screw Driver Attachment, Cannulated, Ao, Tx-10	Reusable
P99-191-TR10	Screw Driver Attachment, Solid, Ao, Hx-10, Short Taper, R3Con™	Reusable
P99-100-2011	Drill, 2.0 X 110mm, Solid, Measuring, Ao	Reusable
P99-100-2414	Drill, 2.4 X 140mm, Solid, Measuring, Long, Ao	Reusable
P99-110-2312	Drill, 2.3 X 120mm, Cannulated, Ao	Reusable
P99-900-1007	Square Foot Plate	Reusable
P99-200-1406	Olive Wire, Smooth, 1.4mm	Single-Use
P99-192-1215	K-Wire, Single Ended Trocar Tip, Smooth, 1.2 X 150mm	Single-Use
P99-192-1615	K-Wire, Single Ended Trocar Tip, Smooth, 1.6 X 150 mm	Single-Use

## GORILLA® MTP PLATING SYSTEM - REDUCTION CLAMP CADDY (SPECIAL ORDER ONLY):

Part Number	Description	Use
SP99-150-0089	GORILLA® Specialty Instrument, Reduction Clamp	Reusable
SP99-250-1620	GORILLA® Specialty Instrument, Reduction Clamp Olive Wire, 20 mm Thread	Single-Use
SP99-250-1625	GORILLA® Specialty Instrument, Reduction Clamp Olive Wire, 25 mm Thread	Single-Use
SP99-250-1630	GORILLA® Specialty Instrument, Reduction Clamp Olive Wire, 30 mm Thread	Single-Use
SP99-250-1635	GORILLA® Specialty Instrument, Reduction Clamp Olive Wire, 35 mm Thread	Single-Use

## GORILLA® MTP PLATING SYSTEM - IMPLANTS:

Part Number	Description	Use
P20-035-DW00	Mini-Monster Washer, 3.5 Headed	Single-Use
P20-135-020S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 20mm	Single-Use
P20-135-022S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 22mm	Single-Use
P20-135-024S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 24mm	Single-Use

**GORILLA® MTP PLATING SYSTEM - IMPLANTS:**

Part Number	Description	Use
P20-135-026S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 26mm	Single-Use
P20-135-028S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 28mm	Single-Use
P20-135-030S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 30mm	Single-Use
P20-135-032S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 32mm	Single-Use
P20-135-034S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 34mm	Single-Use
P20-135-036S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 36mm	Single-Use
P20-135-038S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 38mm	Single-Use
P20-135-040S	Mini-Monster® Cannulated, Short Thread Screw, Headed, 3.5 X 40mm	Single-Use
P20-535-020S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 20mm	Single-Use
P20-535-022S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 22mm	Single-Use
P20-535-024S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 24mm	Single-Use
P20-535-026S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 26mm	Single-Use
P20-535-028S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 28mm	Single-Use
P20-535-030S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 30mm	Single-Use
P20-535-032S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 32mm	Single-Use
P20-535-034S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 34mm	Single-Use
P20-535-036S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 36mm	Single-Use
P20-535-038S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 38mm	Single-Use
P20-535-040S	Mini-Monster® Cannulated, Short Thread Screw, Headless, 3.5 X 40mm	Single-Use
P50-353-2708	R3Con™ Locking Plate Screw, 2.7 X 8mm	Single-Use
P50-353-2710	R3Con™ Locking Plate Screw, 2.7 X 10mm	Single-Use
P50-353-2712	R3Con™ Locking Plate Screw, 2.7 X 12mm	Single-Use
P50-353-2714	R3Con™ Locking Plate Screw, 2.7 X 14mm	Single-Use
P50-353-2716	R3Con™ Locking Plate Screw, 2.7 X 16mm	Single-Use
P50-353-2718	R3Con™ Locking Plate Screw, 2.7 X 18mm	Single-Use
P50-353-2720	R3Con™ Locking Plate Screw, 2.7 X 20mm	Single-Use
P50-353-2722	R3Con™ Locking Plate Screw, 2.7 X 22mm	Single-Use
P50-353-2724	R3Con™ Non-Locking Plate Screw, 2.7 X 24mm	Single-Use
P50-453-2726	R3Con™ Non-Locking Plate Screw, 2.7 X 26mm	Single-Use
P50-453-2728	R3Con™ Non-Locking Plate Screw, 2.7 X 28mm	Single-Use
P50-453-2730	R3Con™ Non-Locking Plate Screw, 2.7 X 30mm	Single-Use
P50-453-3510	R3Con™ Non-Locking Plate Screw, 3.5 X 10mm	Single-Use
P50-453-3512	R3Con™ Non-Locking Plate Screw, 3.5 X 12mm	Single-Use
P50-453-3514	R3Con™ Non-Locking Plate Screw, 3.5 X 14mm	Single-Use
P50-453-3516	R3Con™ Non-Locking Plate Screw, 3.5 X 16mm	Single-Use

## GORILLA® MTP PLATING SYSTEM - IMPLANTS:

Part Number	Description	Use
P50-453-3518	Gorilla R3Con Non-Locking Screw 3.5 X 18	Single-Use
P50-453-3520	Gorilla R3Con Non-Locking Screw 3.5 X 20	Single-Use
P50-453-3522	R3Con™ Non-Locking Plate Screw, 3.5 X 22mm	Single-Use
P50-453-3524	R3Con™ Non-Locking Plate Screw, 3.5 X 24mm	Single-Use
P50-453-3526	R3Con™ Non-Locking Plate Screw, 3.5 X 26mm	Single-Use
P50-453-3528	Gorilla R3Con Non-Locking Screw 3.5 X 28mm	Single-Use
P50-453-3530	R3Con™ Non-Locking Plate Screw, 3.5 X 30mm	Single-Use
P53-103-L001	MTP Plate, 0°, Short, Left	Single-Use
P53-103-L002	Gorilla, Plate, MTP, Primary, Left, 0°, Med, TIA	Single-Use
P53-103-L003	Gorilla, Plate, MTP, Primary, Left, 0°, Large, TIA	Single-Use
P53-103-L004	Gorilla, Plate, MTP, Short (2 Hole Distal), Left, 0°, Small, TIA	Single-Use
P53-103-L051	MTP Plate, 5°, Short, Left	Single-Use
P53-103-L052	Gorilla, Plate, MTP, Primary, Left, 5°, Med, TIA	Single-Use
P53-103-L053	MTP Plate, 5°, Long, Left	Single-Use
P53-103-L054	MTP Plate, 5°, Short-Short, Left, 2-Hole Distal	Single-Use
P53-103-R001	MTP Plate, 0°, Short, Right	Single-Use
P53-103-R002	MTP Plate, 0°, Medium, Right	Single-Use
P53-103-R003	MTP Plate, 0°, Long, Right	Single-Use
P53-103-R004	MTP Plate, 0°, Short-Short, Right, 2-Hole Distal	Single-Use
P53-103-R051	MTP Plate, 5°, Short, Right	Single-Use
P53-103-R052	Gorilla, Plate, MTP, Primary, Right, 5°, Med, TIA	Single-Use
P53-103-R053	MTP Plate, 5°, Long, Right	Single-Use
P53-103-R054	Gorilla, Plate, MTP, Short (2 Hole Distal), Right, 5°, Small, TIA	Single-Use

## GORILLA® MTP PLATING SYSTEM – MTP PLATING CADDY

Part Number	Description	Use
P01-900-[17-23]02	MTP Spin Guard™ Female Reamer, 17-23mm	Reusable
P01-900-[17-23]03	MTP Spin Guard™ Male Reamer, 17-23mm	Reusable
P01-900-[17-23]01	MTP Spin Guard™ Male Reamer Protector Sleeve, 17-23mm	Reusable
P01-900-[17-23]01	MTP Spin Guard™ Female Reamer Protector Sleeve, 17-23mm	Reusable
P51-950-0001	Precision® Guide Set Screw, Short	Reusable
P51-950-0010	Guidewire Sleeve, 1.0mm	Reusable
P51-950-0012	Guidewire Sleeve, 1.2mm	Reusable
P51-950-0103-01	MTP Precision® Guide	Reusable
P53-103-L001	MTP Plate, 0°, Short, Left	Single-Use

**GORILLA® MTP PLATING SYSTEM - MTP PLATING CADDY:**

Part Number	Description	Use
P53-103-L002	MTP Plate, 0°, Medium, Left	Single-Use
P53-103-L003	MTP Plate, 0°, Long, Left	Single-Use
P53-103-L004	MTP Plate, 0°, Short-Short, Left, 2-Hole Distal	Single-Use
P53-103-L051	MTP Plate, 5°, Short, Left	Single-Use
P53-103-L052	MTP Plate, 5°, Medium, Left	Single-Use
P53-103-L053	MTP Plate, 5°, Long, Left	Single-Use
P53-103-L054	MTP Plate, 5°, Short-Short, Left, 2-Hole Distal	Single-Use
P53-103-L101	MTP Plate, 10°, Short, Left	Single-Use
P53-103-L102	MTP Plate, 10°, Medium, Left	Single-Use
P53-103-L103	MTP Plate, 10°, Long, Left	Single-Use
P53-103-L104	MTP Plate, 10°, Short-Short, Left, 2-Hole Distal	Single-Use
P53-103-L151	MTP Plate, 5°, Revision Plate, Short, Left	Single-Use
P53-103-L152	MTP Plate, 5°, Revision Plate, Medium, Left	Single-Use
P53-103-L153	MTP Plate, 5°, Revision Plate, Long, Left	Single-Use
P53-103-L252	MTP Plate, 5°, Graft Spanning, Left	Single-Use
P53-103-R001	MTP Plate, 0°, Short, Right	Single-Use
P53-103-R002	MTP Plate, 0°, Medium, Right	Single-Use
P53-103-R003	MTP Plate, 0°, Long, Right	Single-Use
P53-103-R004	MTP Plate, 0°, Short-Short, Right, 2-Hole Distal	Single-Use
P53-103-R051	MTP Plate, 5°, Short, Right	Single-Use
P53-103-R052	MTP Plate, 5°, Medium, Right	Single-Use
P53-103-R053	MTP Plate, 5°, Long, Right	Single-Use
P53-103-R054	MTP Plate, 5°, Short-Short, Right, 2-Hole Distal	Single-Use
P53-103-R101	MTP Plate, 10°, Short, Right	Single-Use
P53-103-R102	MTP Plate, 10°, Medium, Right	Single-Use
P53-103-R103	MTP Plate, 10°, Long, Right	Single-Use
P53-103-R104	MTP Plate, 10°, Short-Short, Right, 2-Hole Distal	Single-Use
P53-103-R151	MTP Plate, 5°, Revision Plate, Short, Right	Single-Use
P53-103-R152	MTP Plate, 5°, Revision Plate, Medium, Right	Single-Use
P53-103-R153	MTP Plate, 5°, Revision Plate, Long, Right	Single-Use
P53-103-R252	MTP Plate, 5°, Graft Spanning, Right	Single-Use
P99-192-1615	K-Wire, Single Ended Trocar Tip, SMOOTH, 1.6 x 150mm	Single-Use

\*See the complete Gorilla Plating Surgical Technique Guide (P51-STG-0001) for general instrument information

**INSTRUCTIONS FOR USE: GORILLA®/BABY GORILLA® PLATING SYSTEM**

Indications, Contraindications, Warnings and Precautions relevant to the Gorilla® MTP Plating System are contained in the Instructions for Use document of the Gorilla® Plating System P51-IFU-0001.

**MR SAFETY INFORMATION**

The Gorilla® Plating System has not been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration, or image artifact in the MR environment. The safety of the Gorilla® Plating System in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.

**INSTRUCTIONS FOR USE: MONSTER® SCREW SYSTEM**

Indications, Contraindications, Warnings and Precautions relevant to the Mini-Monster® screw system are contained in the Instructions for Use document of the Monster® Screw System P20-IFU-2001.

**MR SAFETY INFORMATION**

The Monster® Screw System has not been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration, or image artifact in the MR environment. The safety of the Monster® Screw System in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.





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## DISCLAIMER

The purpose of the Gorilla® R3CON Plating System Surgical Technique Guide is to demonstrate use of the Gorilla® Plates in the Gorilla® R3CON Plating System. Although various methods can be employed for this procedure, the fixation options demonstrated were chosen for simplicity of explanation and demonstration of the unique features of our device. Federal law (U.S.A.) restricts this device to sale and use by, or on order of, a physician.

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