

**GORILLA<sup>®</sup>**  
R3CON PLATING SYSTEM



Exclusively foot & ankle  
**Paragon<sup>®</sup>** 28

## GORILLA® PLATING SYSTEM FEATURES & BENEFITS

All plates are optimized to a procedure specific thickness

**Plates are available in 13 families to address reconstruction and trauma**

— 309 total plating options across all families

All plates are machine contoured (not stamped, rolled, or bent)

Pre-contoured plates are available in areas of complex anatomy reducing time needed to bend intraoperatively

Ramped surfaces exist on most plates to allow for gliding of tendons over the plate

**All plate holes accept 2.7 mm, 3.5 mm, and 4.2 mm locking or non-locking screws**

— All locking plate screws may be inserted off axis up to 15 degrees in any direction

Plate screws have FDA clearance to be used outside the plate

Plates and screws are constructed from Ti 6AL-4V ELI (titanium alloy) and CP4 commercially pure titanium

The Gorilla® Plating System includes the most robust offering of specialty foot & ankle instrumentation including the Cartilage Removal Tool, Periosteal Elevator, Curved and Straight Osteotomes, Bone Rasp, and Pin Distractor

All plates, instruments, and screws are offered in one tray to limit sterilization costs and minimize confusion on the back-operating table

### MTP Caddy

#### MTP Plates

- ▶ 32 Plate Offering
  - Primary
  - Revision
  - Graft Spanning
- ▶ Precision Guide in caddy
- ▶ 1.3 - 1.6 mm thick



Primary



Short

### Lapidus Caddy

#### Lapidus Plates

- ▶ 18 plate offerings
  - Primary
  - Revision
  - Medial Wall Step-Off
- ▶ Precision Guide in caddy
- ▶ 1.3 - 1.6 mm thick



Primary



Medial Wall Step-Off

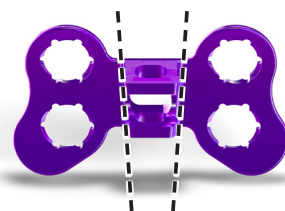
## Bow and Arrow™ Caddy

### Bow and Arrow Plates

- ▶ 15 Plate Offering
- ▶ 3 Plating Families
- ▶ Tapered plate back matches each available size of the patented PRESERVE™ bone graft wedge
- ▶ The “ARROW” latches onto the near cortex of bone



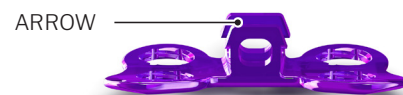
Evans



Base Opening Wedge



Cotton



## Universal Caddy

### Universal Plates

- ▶ 41 Plate Offering
- ▶ 7 Plating Families
- ▶ Each plate offers multiple size options
- ▶ 2<sup>8</sup> Plate and T-Plate have options with additional configurations and screw holes



2<sup>8</sup> Plate



Teddy Bear



T-Plate



HEvans®



Trapezoid



Slanted Dogbone



Dogbone

## Lisfranc Caddy

### Lisfranc Plates

- ▶ 28 plate offering
- ▶ 5 plating families
- ▶ Low profile - 1.4 mm thick
- ▶ Plates contoured for unique anatomy at the tarsometatarsal joint



Slanted T-Plate



Slanted Straight



Clover



Dual Ray  
1<sup>st</sup> and 2<sup>nd</sup>



Dual Ray  
2<sup>nd</sup> and 3<sup>rd</sup>



## Calc Slide Caddy

### Calc Slide Plate

- ▶ Universal for right and left
- ▶ Plate is inserted through same incision as osteotomy
- ▶ Plate hood allows for compression of posterior fragment, and includes angulation allowing the surgeon to capture the sustentaculum tali Precision Guide in caddy
- ▶ Does not violate growth plate of the calcaneus in pediatric patients

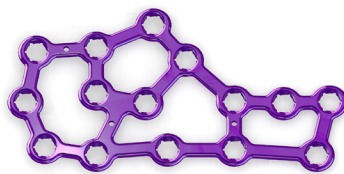


Calc Slide

## Calc Fracture Caddy

### Calc Fracture Plates

- ▶ 20 plate offerings
  - Extensile
  - Sinus Tarsi
  - Sinus Tarsi Support
- ▶ Low profile - 1.1 mm thick
- ▶ Incision guide, Inserter and Dissection Instrumentation included to assist in minimizing incision and to ease insertion



Perimeter



Sinus Tarsi Support



Sinus Tarsi

## Ankle Fracture Caddy

### Ankle Fracture Plates

- ▶ 24 plate offerings
  - Straight Fibular (3-16 hole)
  - Anatomical Fibular (7-17 hole)
  - Medial Malleolus
- ▶ Low profile - 1.5 mm thick
- ▶ Tapered proximal and distal tips to assist in percutaneous insertion
- ▶ Ramped edges to minimize soft tissue irritation
- ▶ Plate holes have a built-in recess to reduce screw head prominence and which can accept a syndesmotic screw or button



Medial Malleolus



Anatomic Fibular

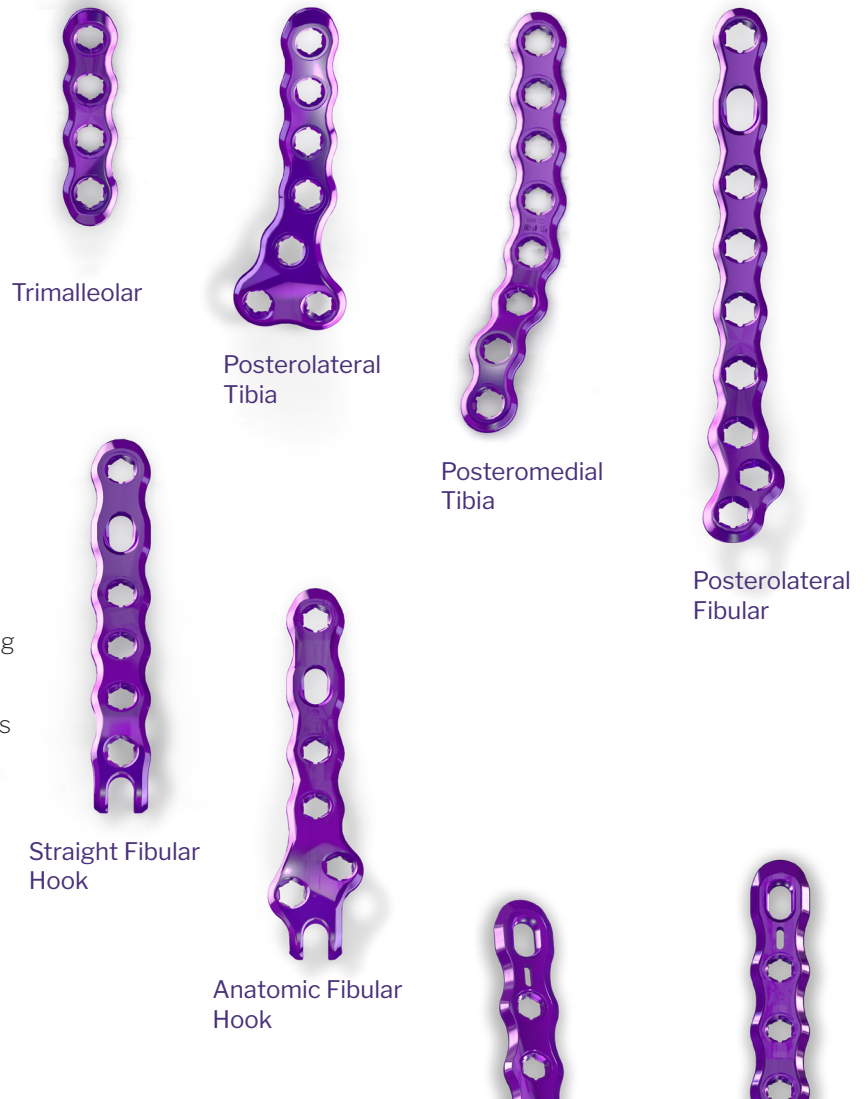


Straight Fibular

## Ankle Fracture Posterior and Hook Caddy

### Ankle Fracture Posterior and Hook Plates

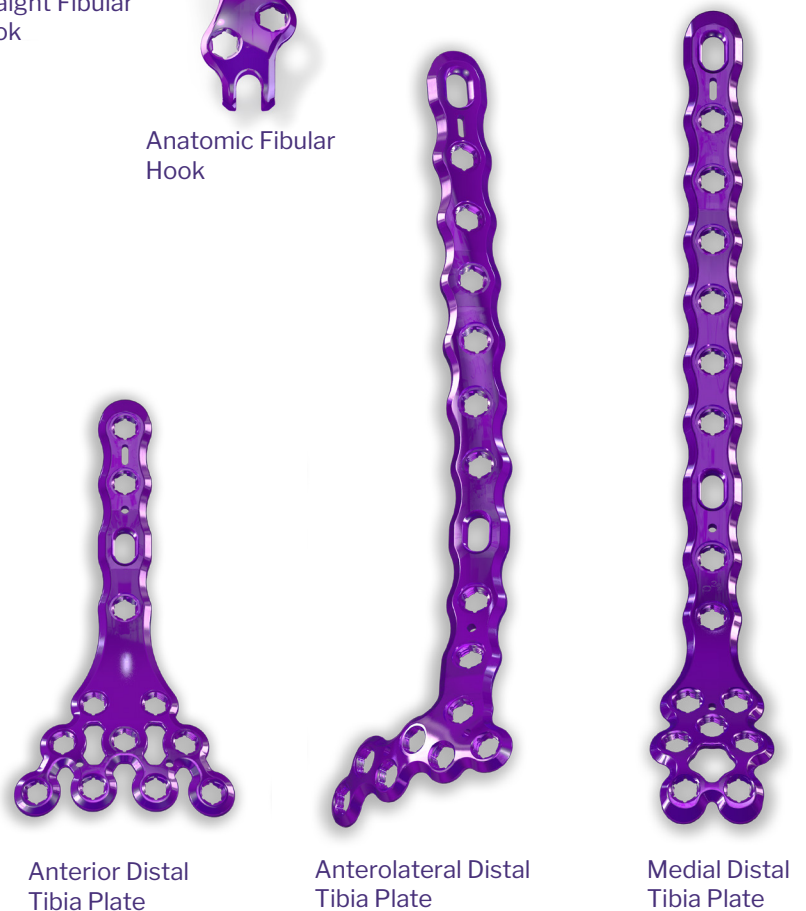
- ▶ 28 plate offerings
- ▶ Posterior Lateral Fibula Plate (7-11 Hole)
- ▶ Posterolateral Tibia Plate (5-8 Hole)
- ▶ Posteromedial Tibia Plate (6 & 8 Hole)
- ▶ Trimalleolar Fracture Plate (3 & 4 Hole)
- ▶ Lateral Malleolus Hook Plate (5 & 6 Hole)
- ▶ Straight Hook Plate (5 & 6 Hole)
- ▶ Medial Hook Plate (2 & 4 Hole)
- ▶ Hook Plate Tamps and Screw Drill
- ▶ Low profile - 1.5 mm thick
- ▶ Anatomic curvature to limit intraoperative bending
- ▶ Guide to aid in placement of plate and allow for positioning of screw through selected plate hooks



## Pilon Fracture Caddy

### Pilon Fracture Plates

- ▶ 26 plate offerings
  - 3 Anterior Distal Fibular plates
  - 16 Anterolateral Distal Tibia Plates
  - 7 Medial Distal Tibia Plates
- ▶ All plates have a transitional thickness with increased thickness where the plate is subjected to the most stress and thinning proximally to limit soft tissue irritation



## NC Fusion Caddy

### NC Fusion Plates

- ▶ 8 plate offerings (Small, Medium, Large, and Extra Large)
- ▶ Precision Guide included in caddy - places screw outside plate from medial cuneiform into navicular
- ▶ Plate curves cylindrically to mate with anatomy
- ▶ Templating and trialing system to ensure best fit
  - Allows for placement of five screws and plate at the NC joint while accommodating varying patient anatomies



NC Plate

## Medial Column Caddy

### Medial Column Plates

- ▶ 46 plate offerings
- ▶ Available in Standard 1.5 mm thickness and 2.0 mm thickness
- ▶ Optimized for anatomical fit, deformity correction, durability, and strength
- ▶ Dorsal tabs in select plates can be bent and contoured to match proximal anatomy of the talus and navicular



Rescue



Arch



Straddle



Proximal Arch



Distal Arch



Extended Arch

## Lateral Column Caddy

### Lateral Column Plates

- ▶ 4 plate offerings (Standard and Large)
- ▶ Designed to maintain anatomic alignment of the lateral column and prevent plantar subluxation of the cuboid
- ▶ Accepts a Type II Annodized 5.5 mm beaming plate screw to aid in stabilization and compression of the lateral column



Lateral Column Fusion

## Central Column Caddy

### Central Column Plates

- ▶ 16 plate offerings
  - 4 Charcot – Navicular to 2<sup>nd</sup> Metatarsal (2.0 mm thickness)
  - 4 Charcot – Talus to 2<sup>nd</sup> Metatarsal (2.0 mm thickness)
  - 4 Standard Thickness – Navicular to 2<sup>nd</sup> Metatarsal (1.5 mm thickness)
  - 4 Standard Thickness – Talus to 2<sup>nd</sup> Metatarsal (1.5 mm thickness)
- ▶ Talar and non-talar versions
- ▶ Standard and long length



Talus to 2<sup>nd</sup> Metatarsal Plate



Navicular to 2<sup>nd</sup> Metatarsal Plate

## GORILLA<sup>®</sup> R3CON SCREW TECHNOLOGY

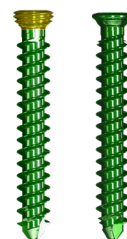
### Screw Head

- ▶ The screw head is the same size regardless of screw diameter
- ▶ Width of screw head maximized to allow for maximal interface between driver and screw
  - All screws use same size hexalobe driver (non-cannulated TR-10 driver)
- ▶ All screws have a hexalobe drive feature which maximizes surface contact and torque transmission between the driver and screw, thus reducing screw head stripping
- ▶ Screw head is threaded for locking screws
  - Features “Cheaters Lag”  
This design allows a locking screw to compress the plate to bone

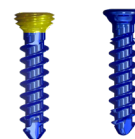
**Screw material is titanium (Ti 6Al-4V ELI) but head is coated in Titanium Nitride (TiN), offering superior strength**

**Tip of screw is blunt to prevent soft tissue irritation when bi-cortical fixation is employed**

**Double lead threads allow for twice the amount of distance traveled per turn of the screwdriver**



Ø4.2 mm  
R3CON Screws



Ø3.5 mm  
R3CON Screws



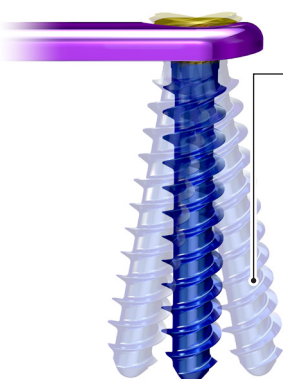
Ø2.7 mm  
R3CON Screws

# GORILLA® | R3CON Plating System

	Ø2.7 mm R3CON Screws	Ø3.5 mm R3CON Screws	Ø4.2 mm R3CON Screws
Locking:			
Non-locking:			
Screw Lengths:	8 mm - 20 mm in 1 mm increments  22 - 40 mm in 2 mm increments	10 mm - 50 mm in 2 mm increments	10 mm - 50 mm in 2 mm increments  55 mm - 70 mm in 5 mm increments
Drill Size:	 Ø2.0 mm	 Ø2.4 mm	 Ø2.8 mm
Driver Size:	 HX-10	 HX-10	 HX-10
Locking Drill Guide Size:	 Ø2.7mm	 Ø3.5 mm	 Ø3.5 mm C / Ø4.2 mm
Centering Drill Guide Size:	 Ø2.7mm	 Ø3.5 mm	 Ø4.2 mm
Compression Slot Drill Guide Size:	 Ø2.7mm	 Ø3.5 mm	 Ø3.5mm C / Ø4.2mm
Cone/Straight Easy Guide Size:	 Ø2.7 mm	 Ø3.5 mm	 Ø3.5 mm C / Ø4.2 mm
Tap Size:	 Ø2.7 mm	 Ø3.5 mm	 Ø4.2 mm
Over Drill Size:	 Ø2.7 mm	 Ø3.5 mm	 Ø4.2 mm
Double Ended Drill / Over Drill Guides:	 Ø2.0 mm	 Ø2.4 mm	 Ø2.8 mm
Drill Sleeve (for use with Double Ended Guide):	 Ø2.0 mm Drill / Ø2.7 mm Over Drill	 Ø2.4 mm Drill / Ø3.5 mm Over Drill	 Ø2.8 mm Drill / Ø4.2 mm Over Drill



## GORILLA® PLATE TECHNOLOGY



### Variable Angle Locking

- Creates a locked screw construct up to 15° in every screw hole (with the exception of the compression slot).

All holes allow for locking and non-locking 2.7, 3.5, and 4.2 mm screws

Holes are scalloped for easy thread start for a screw that is placed off axis

Holes are tapered for lag effect with locking screw

Many plates are ramped to reduce soft tissue irritation

Many plates have ramped compression holes which will accept a Gorilla® R3CON Nonlocking screw

- Optimized to reduce friction and provide maximum compression down the ramp of nearly 3 mm



Scalloped Holes

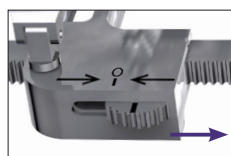


Ramped Compression Slot

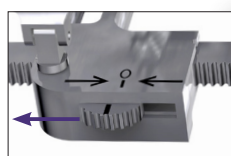
## FEATURED INSTRUMENTATION

### Caspar Compression/Distraction Device

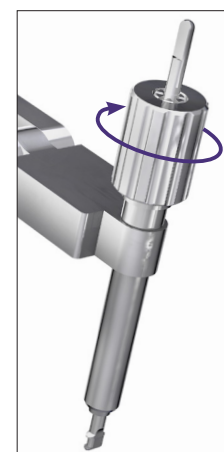
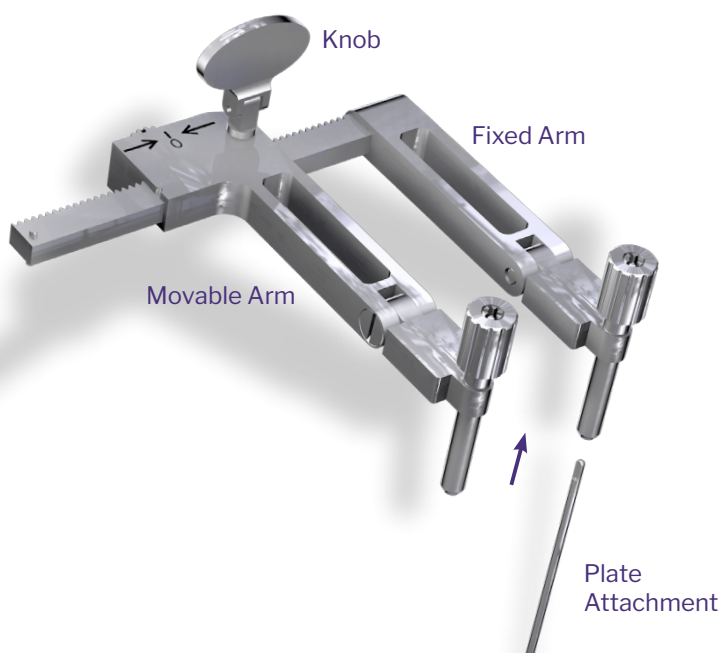
- Can be secured on either side of the plate or osteotomy site using two K-wire (allows up to 2.3 mm K-wires)
- Provides compression or distraction based on setting switch
- Has plate attachment to create in-line compression with the plate
- The plate attachment is inserted into the fixed arm such that the insert on the hook is facing the movable arm and is just below the bottom of the arm head stripping.



Compression Setting



Distraction Setting



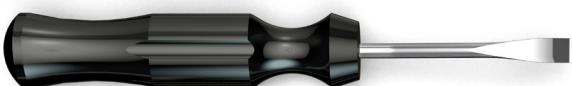
Correct Position of Plate Attachment

## FEATURED INSTRUMENTATION



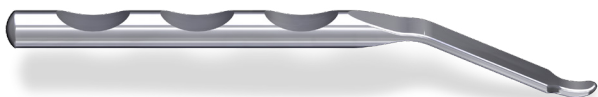
### Pin Distractor

- ▶ Sized for foot and ankle applications
- ▶ Smaller holes accept up to 1.6 mm K-wires
- ▶ Larger holes accept up to 2.3 mm K-wires



### Honey Badger Cartilage Removal Tool

- ▶ Provides “reverse cutting” functionality
- ▶ Ideal for debridement of curved, small and/or difficult to access joints



### San Gio Retractor

- ▶ Sized and contoured for foot and ankle surgery



### Drill

- ▶ Solid Drill
- ▶ Comes in 3 sizes



### Subchondral Drill

- ▶ Useful during preparation of an arthrodesis, the subchondral drill provides approximately 10 mm of controlled drilling of subchondral bone, featuring a stop on the drill to help prevent deeper penetration



### Standard Drill Guide

- ▶ **Cone Side:** Allows for off-axis drilling of locking screws up to 15° in any direction or 30° total
- ▶ **EZ-Guide Side:** Serves as an alternative to the threaded locking drill guide and allows for quick on-axis drilling



### Threaded Drill Guide

- ▶ For on-axis drilling of locking screw holes



### Oblong Drill Guide

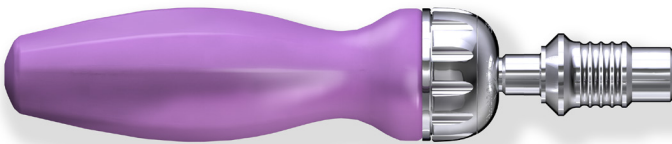
- ▶ For ramped compression slot

## FEATURED INSTRUMENTATION



**Depth Gauge**

- Designed specifically to fit and accurately measure foot and ankle bones.



**AO Handle**



**Mini AO Handle**



**TR-10 Driver**



**Bone Rasp**

- Designed to aid in preparation of fusion site



**Washers**

- Available for use with non-locking screws when non-locking screws are used outside of the plate.



**Plate Benders**

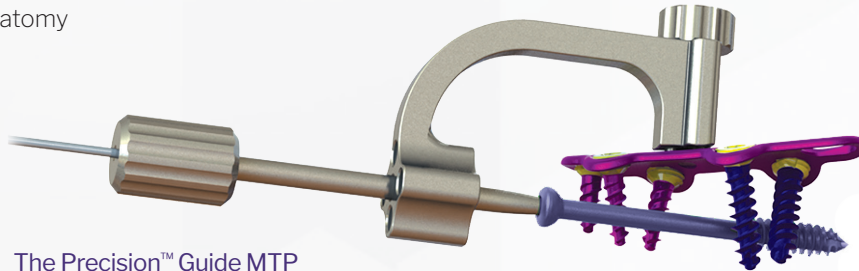




## FEATURED INSTRUMENTATION

### PRECISION™ Guides

- ▶ Patent pending guide for trajectory of cross-screw that attaches directly to plate and misses all other screws in the construct
- ▶ Allows plate screws to remain on axis and avoid cross screws minimizing prominence and soft tissue irritation
- ▶ Provides multiple trajectories of wire paths for variations among patient anatomy



The Precision™ Guide MTP



The Precision™ Lapidus Guide

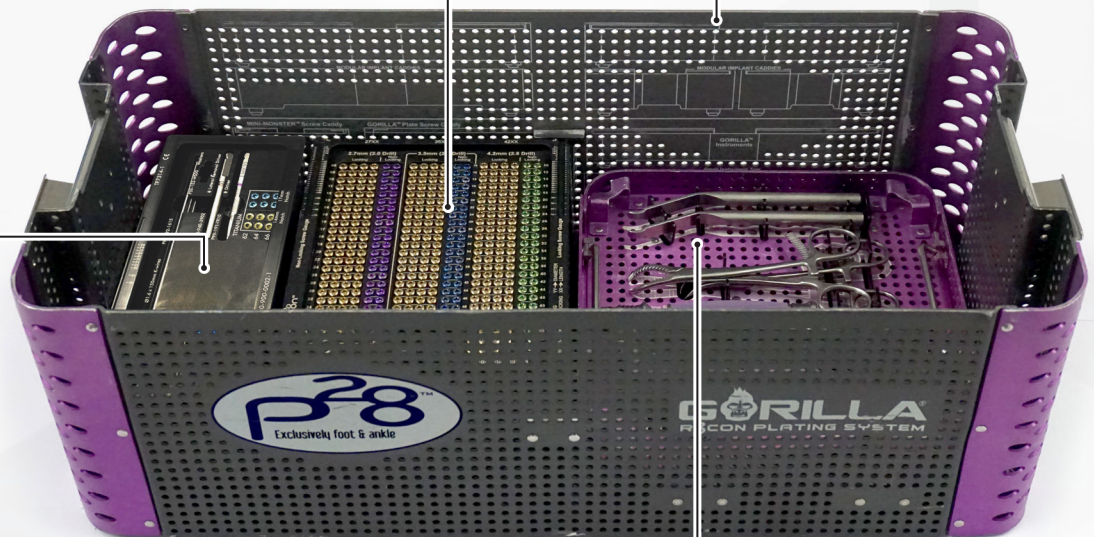
## SYSTEM MODULARITY

### GORILLA® SCREW CADDY



MINI-MONSTER® SCREW CADDY

### GORILLA® CASE



GORILLA® R3CON INSTRUMENTS

For the contraindications, potential complications and adverse reactions, warnings and precautions associated with this device, please refer to the device specific instructions for use at <http://www.paragon28.com/ifus>

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