



SILVERBACK™

ANKLE FUSION PLATING SYSTEM

PRODUCT INFORMATION



SILVERBACK™ Ankle Fusion Plating System

FEATURES & BENEFITS

Anterior, lateral, and posterior low profile (1.5 mm - 2.0 mm) plates engineered from Type II Anodized Titanium Alloy

- Multiple points of fixation in the tibia, talus, and calcaneus to address a tibiotalar (TT) and tibiotalocalcaneal (TTC) arthrodesis
- Left and right specific plates with contoured and flat options



Five anatomy specific plate screw diameters offered in locking and non-locking options

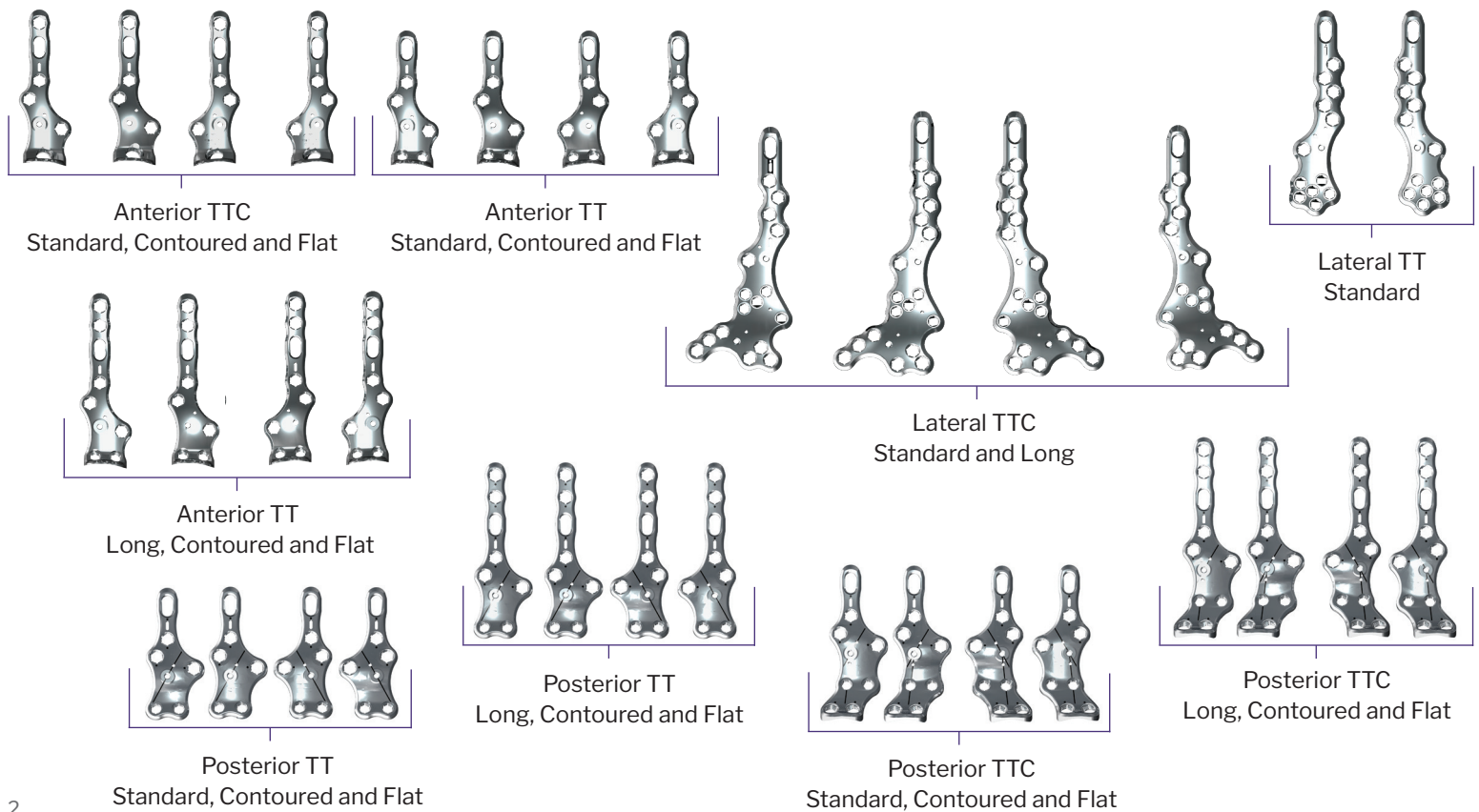
- Locking screws offer 15° of variability/30° sweep with converging and diverging capabilities to address varied deformities
- Locking screws and plate holes provide “Cheaters Lag” technology to help minimize plate prominence
- The Ø4.7 mm Silverback compact screw features a larger inner diameter and shorter thread pitch to allow for easier insertion if dense bone is encountered in the proximal tibia

PRECISION® Guide Technology allows for insertion of a Ø5.5 mm or Ø7.0 mm cannulated Monster® crossing screw outside of the plate while avoiding interference with on-axis plate screws

- Partial and full thread, headed and headless options available
- Aid in compression and stability, creating a more evenly balanced construct across the TT and subtalar (ST) joints

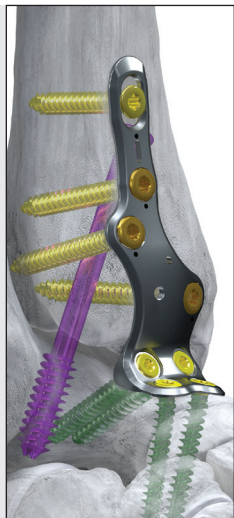
Robust joint preparation instrumentation designed specifically to address TT and TTC arthrodesis

PLATES



SILVERBACK™ Plating Options

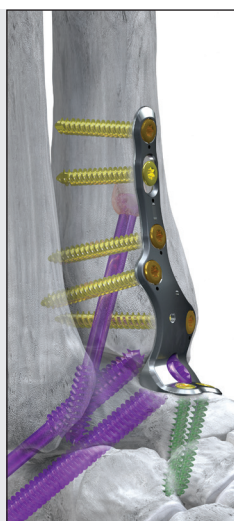
ANTERIOR PLATES



Anterior TT

- 1.5 mm to 1.7 mm plates with transitional thickness at the ankle joint
- Available in flat and contoured options to address varying patient anatomy
- Allows for PRECISION® guided placement of a Ø5.5 mm or Ø7.0 mm crossing screw

Available in 8 and 10 hole right and left specific plates



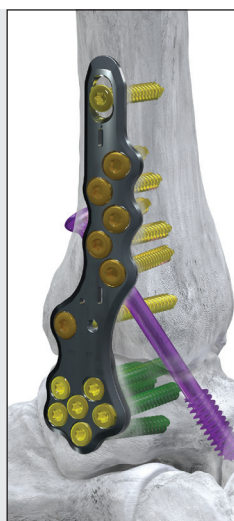
Anterior TTC

- 1.5 mm plates with transitional thickness at the ankle joint
- Available in flat and contoured options to address varying patient anatomy
- Accommodates a Ø7.0 mm ST screw through the plate to stabilize the construct
- Allows for PRECISION guided placement of a Ø5.5 mm or Ø7.0 mm crossing screw to compress the ST joint

Available in 7 hole right and left specific plates



LATERAL PLATES



Lateral TT

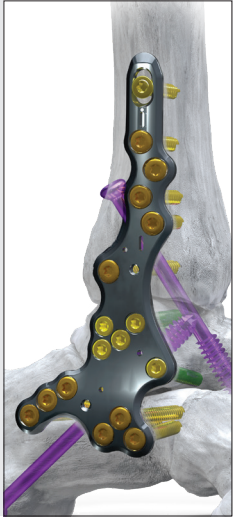
- 2.0 mm plates with transitional thickness at the ankle joint
- Allows for PRECISION guided placement of a Ø5.5 mm or Ø7.0 mm crossing screw to compress the TT joint

Available in 13 hole right and left specific plates



SILVERBACK™ Plating Options

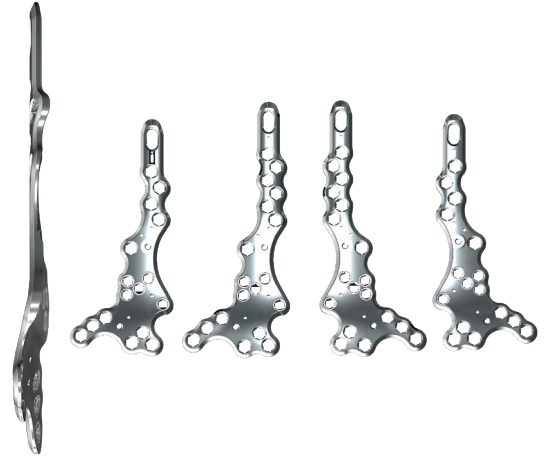
LATERAL PLATES



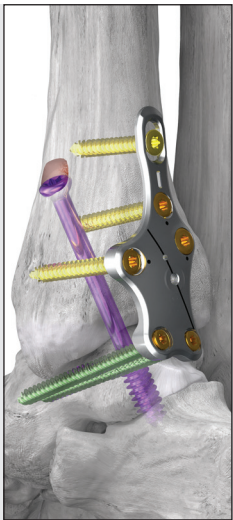
Lateral TTC

- 2.0 mm plates with transitional thickness at the ankle joint
- Allows for PRECISION® guided placement of a Ø5.5 mm or Ø7.0 mm crossing screw to compress the TT and ST joints

Available in 17 hole standard and long, right and left specific plates



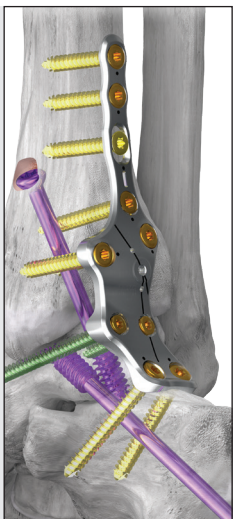
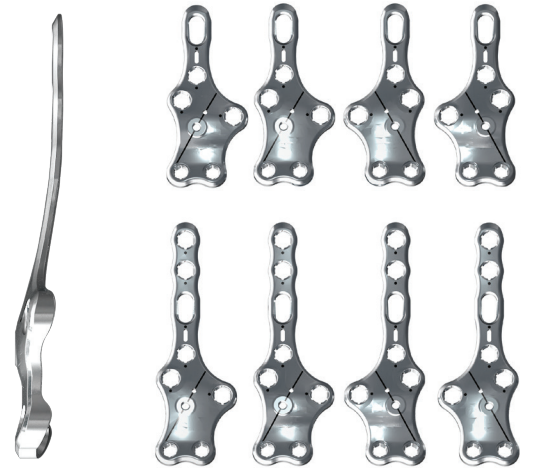
POSTERIOR PLATES



Posterior TT

- 1.8 mm plates with transitional thickness at the ankle joint
- Available in flat and contoured options to address varying patient anatomy
- Allows for PRECISION guided placement of a Ø5.5 mm or Ø7.0 mm crossing screw to compress the TT

Available in 6 and 8 hole standard and long, right and left specific plates



Posterior TTC

- 1.8 mm plates with transitional thickness at the ankle joint
- Available in flat and contoured options to address varying patient anatomy
- Allows for PRECISION guided placement of a Ø5.5 mm or Ø7.0 mm crossing screw to compress the TT and ST joint

Available in 8 and 10 hole standard and long, right and left specific plates



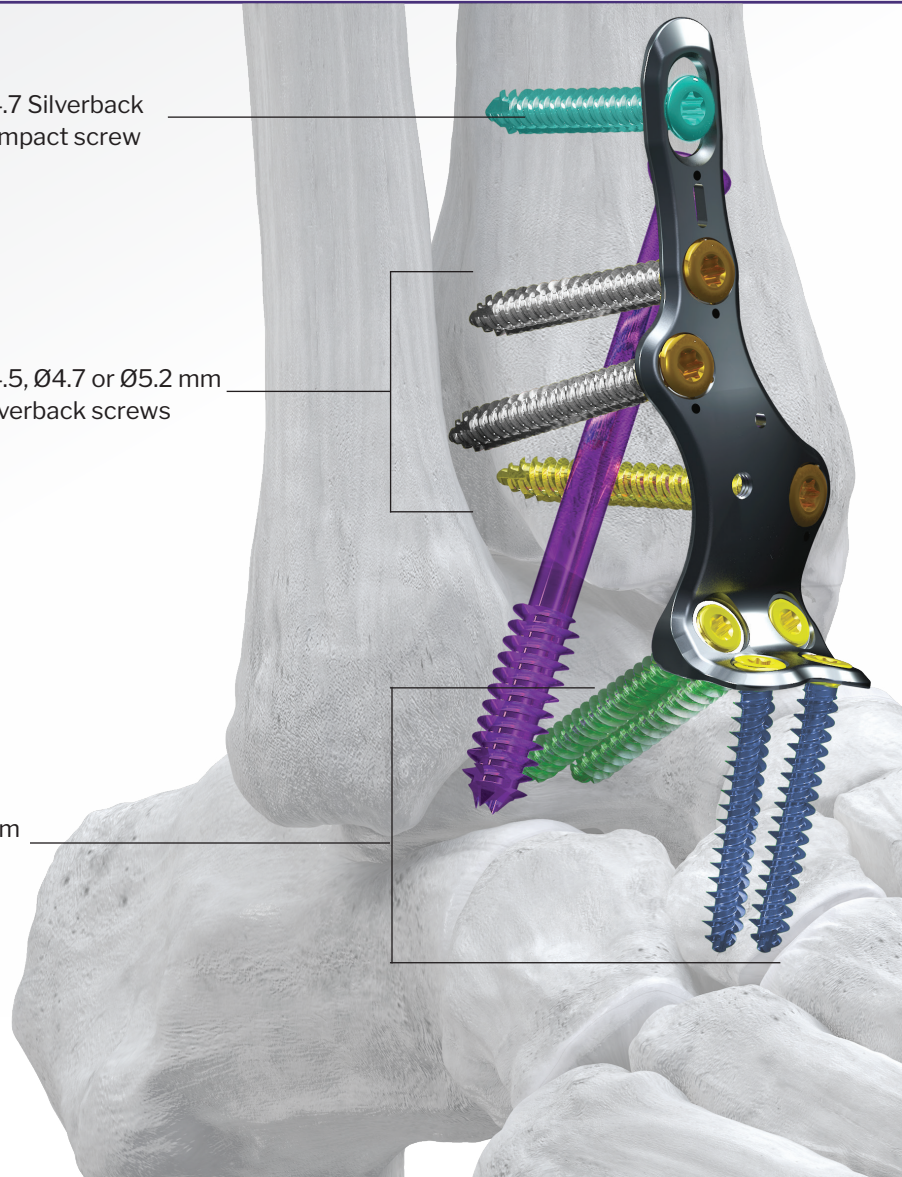
SILVERBACK™ Screw Plating Options

- Five locking and non-locking screw diameters offered designed specifically for foot and ankle anatomy
- Ø4.7 mm Compact Silverback screws were designed with single lead bone threads, resulting in a decreased pitch differential between the locking screw head and bone threads to reduce the amount of insertion torque when encountering dense bone that is commonly found in the proximal tibia
- All locking plate holes and screws feature a “Cheaters Lag” technology. This allows a locking screw to lag the plate to the bone, once the threads on the screw head interface with the threads on the plate, minimizing plate prominence
- Locking screws allow up to 15° of variability with converging and diverging capabilities to address varied deformities

Ø4.7 Silverback compact screw

Ø4.5, Ø4.7 or Ø5.2 mm Silverback screws

Ø3.5 mm or Ø4.2 mm Gorilla® Screws

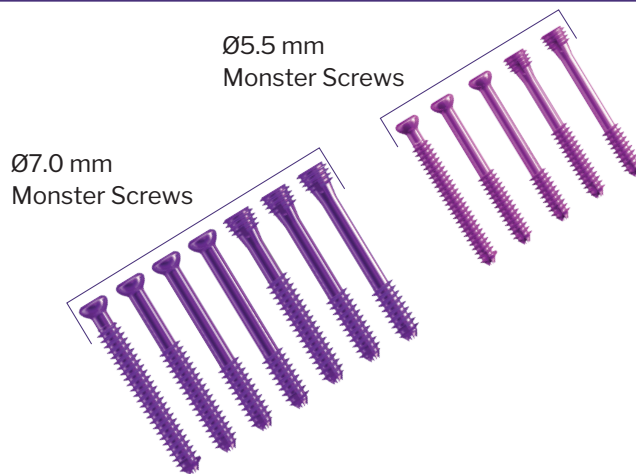


SILVERBACK ANKLE FUSION PLATING SCREW REFERENCE CHART

	Ø3.5 mm Gorilla R3CON Screws	Ø4.2 mm Gorilla R3CON Screws	Ø4.5 mm Silverback Screws	Ø5.2 mm Silverback Screws	Ø4.7 mm Silverback Compact Screws
Locking					
Non-locking					
Lengths	14 mm - 30 mm 2 mm increments	14 mm - 50 mm 2 mm increments	55 mm - 60 mm 5 mm increments		20 mm - 40 mm 2 mm increments
Placement	Talus	Talus	Tibia and Calcaneus	Tibia and Calcaneus	Proximal Tibia
Material	Titanium Alloy				

SILVERBACK™ Crossing Screws

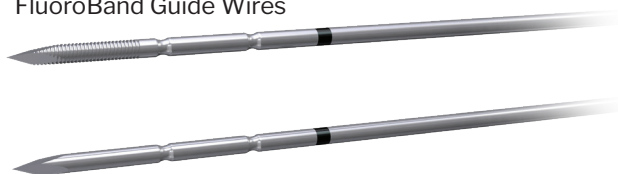
- Headed or headless Ø5.5 mm (26 mm - 90 mm) and Ø7.0 mm (36 mm - 130 mm) Monster® crossing screws may be implanted using the Silverback PRECISION® Guide technology
 - Partially and fully threaded crossing screw options are available to add compression and/or stability, creating a more evenly balanced construct across the TT and ST joints
- Patented FluoroBand™ Guide Wires may be used to aid in determining whether a short, medium, or long thread length Monster Screw could be used across the arthrodesis site



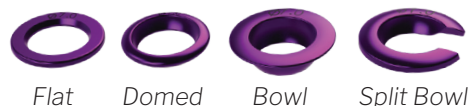
Four different washer types offered including patented Split Bowl Washer

- All Monster screws work with each washer option;
 - Flat, Domed, Bowl, Split Bowl
 - Bowl washer provides the ability to countersink the crossing screw at more than a 15° without any head prominence
 - Patented Split Bowl Washer designed specifically to allow surgeon to place washer around screw without having to fully remove screw, preventing loss of purchase and saving intraoperative time

FluoroBand Guide Wires



Washers



SILVERBACK PRECISION GUIDE TECHNOLOGY

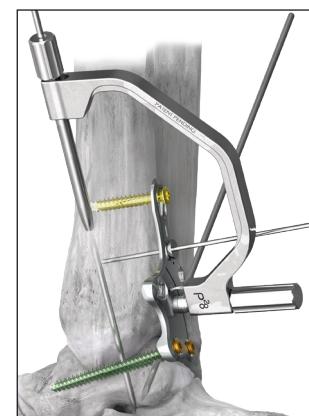
- Allows for placement of a Ø5.5 mm or Ø7.0 mm cannulated Monster® crossing screw outside of the plate while avoiding interference with on-axis plate screws
- Anterior, lateral, and posterior PRECISION Guides work with both left and right specific plates
 - The lateral plates have TT and ST specific PRECISION Guides
- The PRECISION Guides thread into the face of the plate and wrap around the tibia medially (for the anterior and posterior plates) and posteriorly (for lateral plates)



Anterior TT right plate with PRECISION Guide Technology



Lateral TTC right plate with TT and ST PRECISION Guide Technology



Posterior TT plate with PRECISION Guide Technology

SILVERBACK™ Robust Joint Preparation Instrumentation

- Joint preparation instrumentation designed specifically to address the unique contouring of the TT and ST joints
- Ability to access all joint surfaces to ensure adequate preparation
- All joint preparation instrumentation is available in the Silverback case and tray

Bone Fenestration Perforator



Oval Burr



Barrel Burr



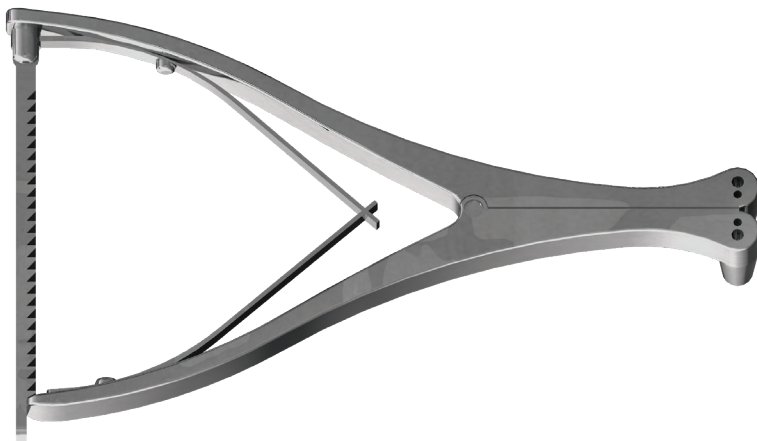
Straight Bone Fenestration Chisel



Curved Bone Fenestration Chisel



K-wire Hindfoot Distractor



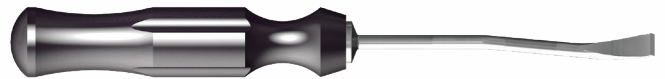
Curved Osteotome



Straight Osteotome



Cartilage Removal Tool



Straight Ring Curette



Angled Ring Curette



Angled Curette



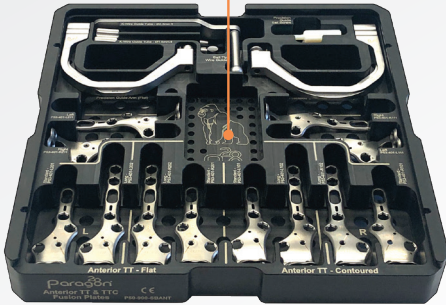
Straight Curette



SILVERBACK™ Fully Modular System

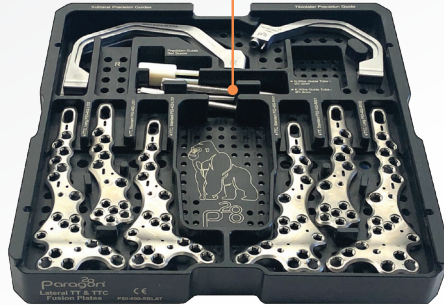
Silverback Anterior Plate Caddy

Anterior TT and TTC plates and corresponding Precision® Guides are located within the Anterior Plate Caddy.



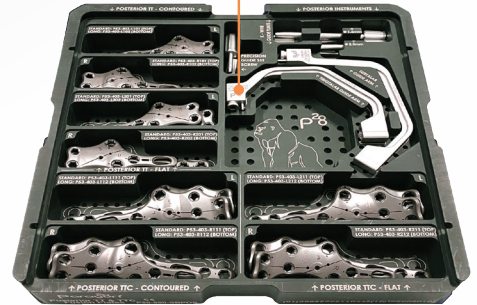
Silverback Lateral Plate Caddy

Lateral TT and TTC plates and corresponding Precision Guides are located within the Lateral Plate Caddy.



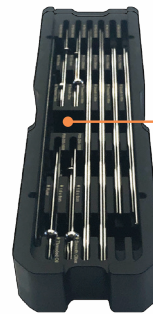
Silverback Posterior Plate Caddy

Posterior TT and TTC plates and corresponding Precision Guides are located within the Posterior Plate Caddy.



Silverback K-wire and Olive Wire Caddy

Smooth and threaded K-wires and Olive Wires and a ruler are located within the K-wire and Olive Wire Caddy.



Silverback Instrument Tray

All drill guides, drills, overdrills, taps, Drivers, forceps and a depth gauge are located within the Silverback

Silverback Screw Caddy

The Silverback screw length options for locking:

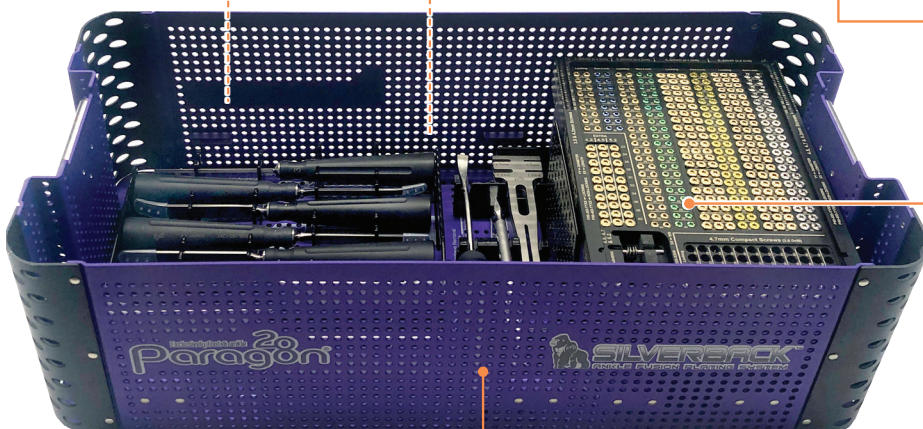
3.5 mm	2 mm increments, 14-30 mm	
4.2 mm	2 mm increments, 14-50 mm	
4.2 mm	5 mm increments, 55-60 mm	
4.5 mm	2 mm increments, 14-50 mm	
4.5 mm	5 mm increments, 55-60 mm	
5.2 mm	2 mm increments, 14-50 mm	
5.2 mm	5 mm increments, 55-60 mm	

The Silverback compact screw length options are as follows:

4.7 mm	2 mm increments, 20-40 mm	
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Silverback Case Base

Handles, plate bending instrumentation and joint preparation instrumentation including curettes, osteotomes, chisels and a cartilage removal tool are located at the bottom of the Silverback Instrument Case.



SBGP-01 RevC

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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>