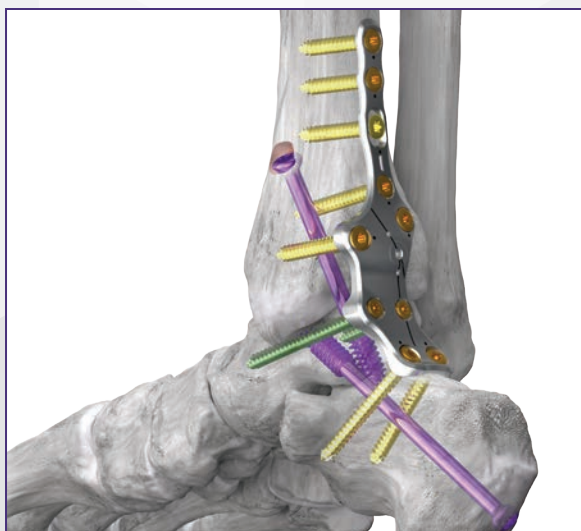




SILVERBACK™
ANKLE FUSION PLATING SYSTEM

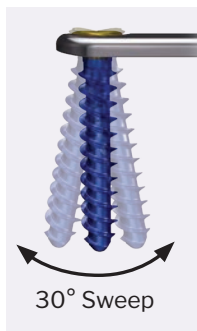
Silverback™ Ankle Fusion Plating System



FEATURES & BENEFITS

Mini-Open, 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), tibiocalcaneal (TC) 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

Silverback™ Plates are available in Anterior, Lateral and Posterior options to address TT, TC and TTC fusions.














- ▶ The Silverback™ Ankle Fusion system has 62 unique plates, allowing surgeons to match their patient’s anatomy when performing an arthrodesis.

Straddle and spanning plates are available in anterior, lateral and posterior offerings to be used in cases where maximum strength is required or when a significant void is present at the ankle joint.

- ▶ The straddle plates have an increased surface area to accommodate the Phantom® TTC/TC Nail to help evenly distribute force across the construct and help guard against stress shielding
- ▶ The spanning plates are intended to be used in combination with allograft or a titanium cage to span a bony deficit and come in varying span distances to accommodate unique anatomies and graft lengths.
- ▶ A proximal compression slot built into all plates may be used to compress the bone to graft interface



PLATES (62 TOTAL)

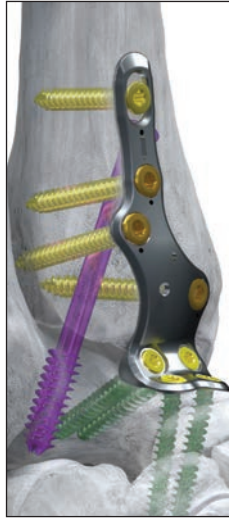
	ANTERIOR	LATERAL	POSTERIOR
TT	 <p>Mini-Open, Contoured and Flat</p>  <p>Standard and Long, Contoured and Flat</p>	 <p>Standard</p>	 <p>Standard and Long, Contoured and Flat</p>
TTC	 <p>Standard, Contoured and Flat</p>	 <p>Standard and Long</p>	 <p>Standard and Long, Contoured and Flat</p>
STRADDLE	 <p>Contoured and Flat, TT</p>	 <p>TC and TTC</p>	 <p>Contoured and Flat, TTC</p>
SPAN	 <p>Standard and Long, TT</p>	 <p>Standard and Long, TC</p>	 <p>Standard and Long, TC</p>

ANTERIOR PLATES

Anterior TT and Mini-Open TT

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

Available in 6, 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

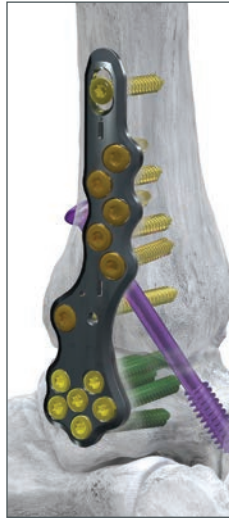


LATERAL PLATES

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

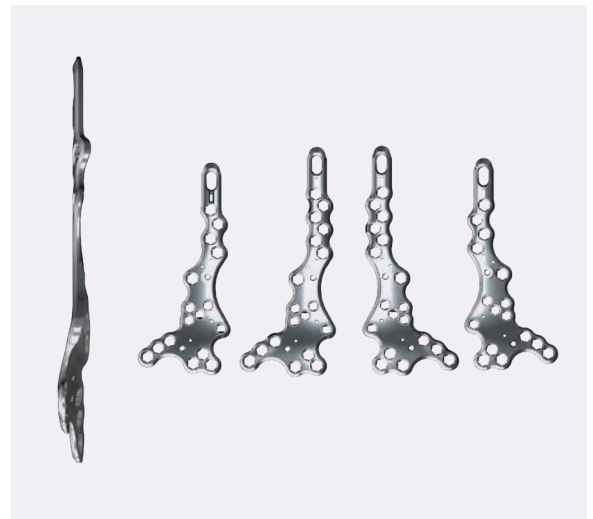
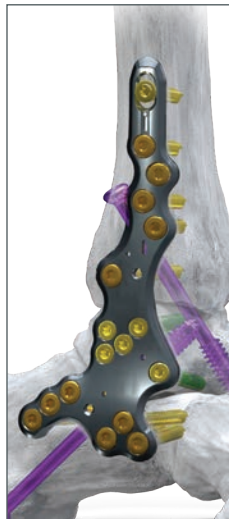
Available in 13-hole right and left specific plates



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

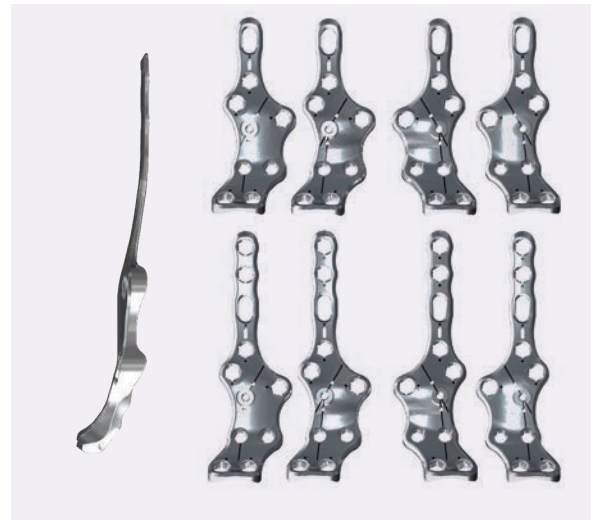
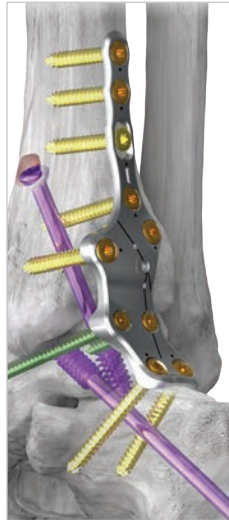
Available in 6 and 8-hole standard and long, right and left specific plates



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



STRADDLE PLATES

Anterior TT

- ▶ 1.8 mm plates with transitional thickness at the ankle joint
- ▶ Available in flat and contoured options to address varying patient anatomy
- ▶ Plate surface area is optimized to accommodate the Phantom® TTC/TC Nail and allow for placement of screws around the nail

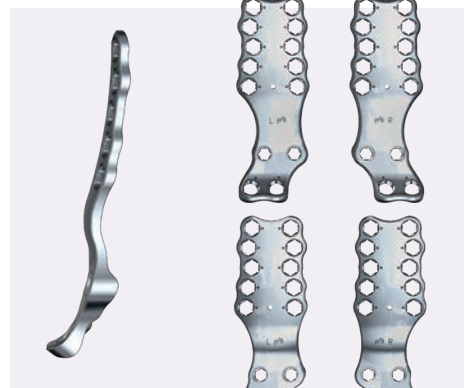
Available in 14-hole right and left specific plates



Posterior TTC

- ▶ 1.8 mm plates with transitional thickness at the ankle joint
- ▶ Available in flat and contoured options to address varying patient anatomy
- ▶ Plate surface area is optimized to accommodate the Phantom® TTC/TC Nail and allow for placement of screws around the nail

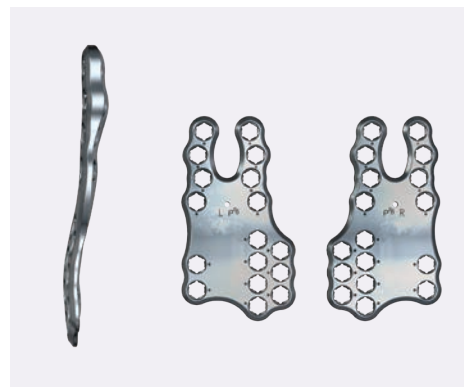
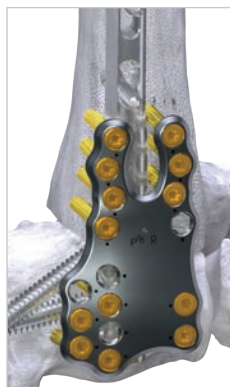
Available in 14-hole right and left specific plates



Lateral TT

- ▶ 2.0 mm plates with transitional thickness at the ankle joint
- ▶ Proximal portion of plate designed to allow for plate to be bent and contoured around Nail and to the tibia
- ▶ Plate surface area is optimized to accommodate the Phantom® TTC/TC Nail and allow for placement of screws around the nail

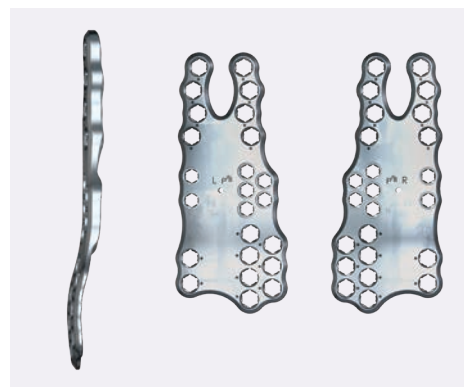
Available in 17-hole right and left specific plates



Lateral TTC

- ▶ 2.0 mm plates with transitional thickness at the ankle joint
- ▶ Proximal portion of plate designed to allow for plate to be bent and contoured around nail and to the tibia
- ▶ Plate surface area is optimized to accommodate the Phantom® TTC/TC Nail and allow for placement of screws around the nail

Available in 17 and 24-hole right and left specific plates

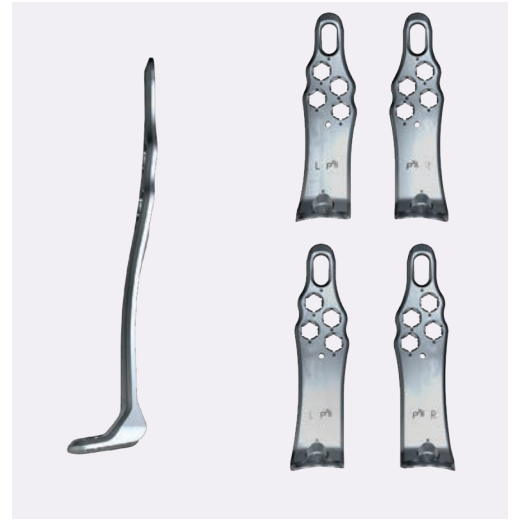


SPAN PLATES

Anterior Span

- ▶ 1.7 mm plates with transitional thickness at the ankle joint
- ▶ Available in standard and long options to address varying patient anatomy
- ▶ Proximal compression slot which may be used to compress the bone to graft or bone to cage interface

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



Posterior Span

- ▶ 1.8 mm plates with transitional thickness at the ankle joint
- ▶ Available in standard and long options to address varying patient anatomy
- ▶ Proximal compression slot which may be used to compress the bone to graft or bone to cage interface

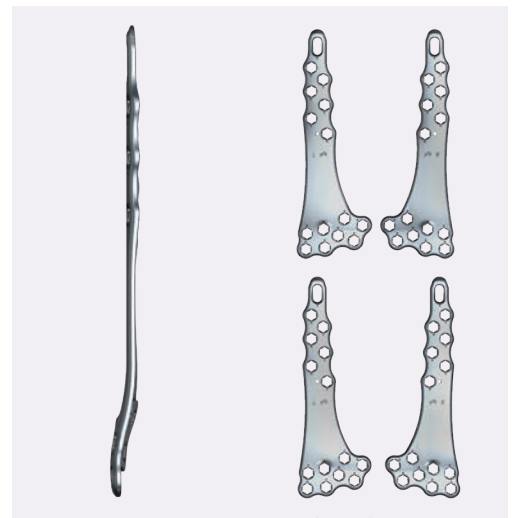
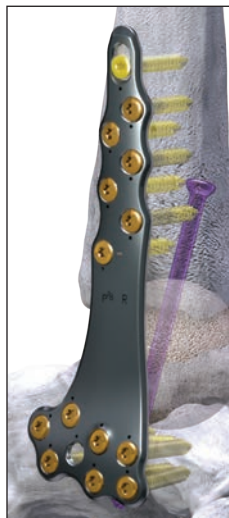
Available in 9-hole standard and long, right and left specific plates



Lateral Span

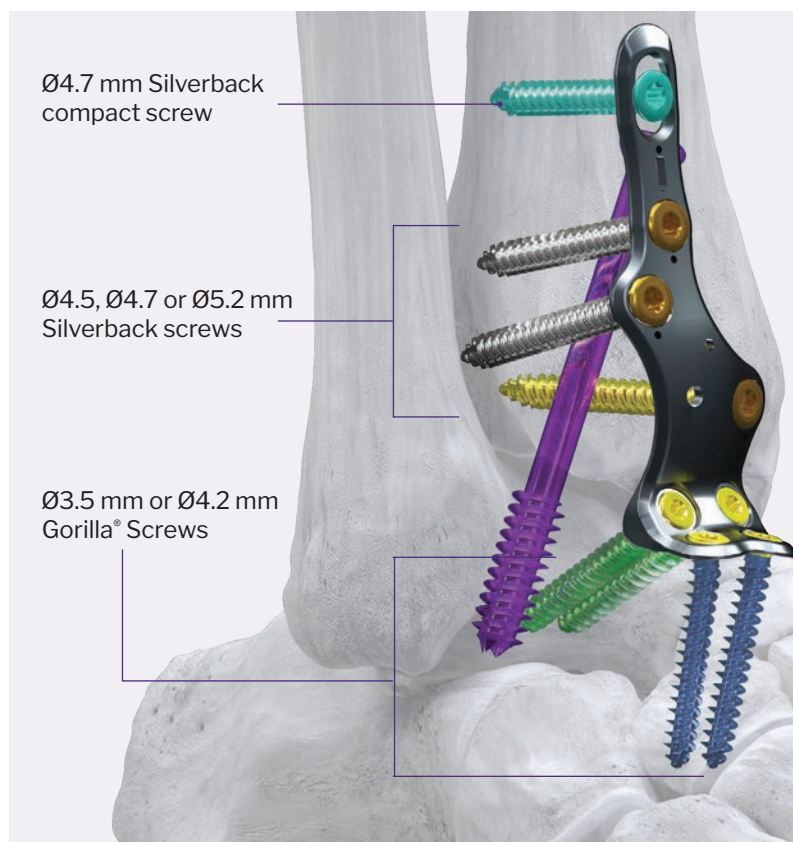
- ▶ 1.8 mm plates with transitional thickness at the ankle joint
- ▶ Available in standard and long options to address varying patient anatomy
- ▶ Proximal compression slot which may be used to compress the bone to graft or bone to cage interface

Available in 15-hole standard and long, right and left specific plates



SCREW PLATING OPTIONS

- Five locking and non-locking screw diameters 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



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	10 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 and is intended to minimize head prominence when the crossing screw is placed off axis
 - 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



SILVERBACK™ PRECISION GUIDE TECHNOLOGY

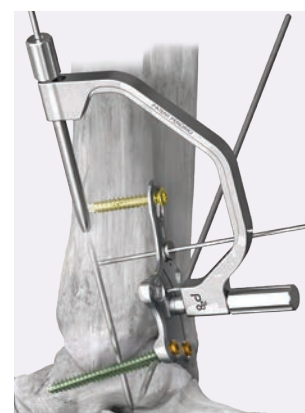
- ▶ Allows for placement of a Ø5.5 mm or Ø7.0 mm cannulated Monster® crossing screw outside of the plate while avoiding interference with on-axis plate screws
- ▶ Anterior, lateral, and posterior PRECISION® Guides work with both left and right specific plates
 - The lateral plates have TT and ST specific 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



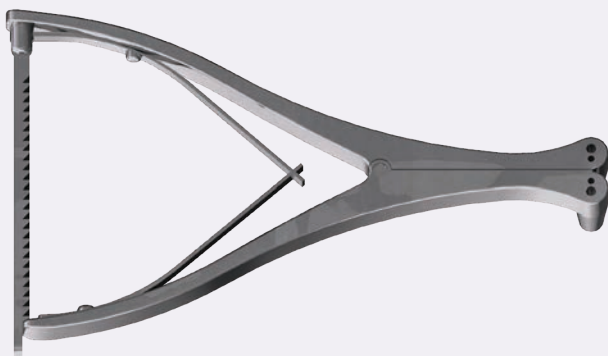
Straight Bone Fenestration Chisel



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.



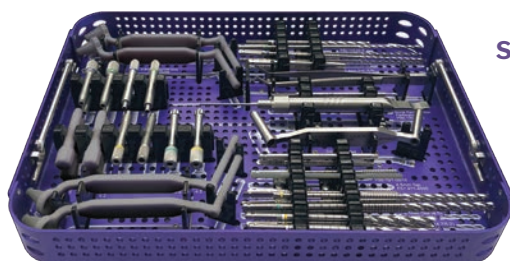
Silverback™ Straddle Plate Caddy



Silverback™ Span Plate Caddy



Silverback™ Mini-Open Plate Caddy



Silverback™ Instrument Tray

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

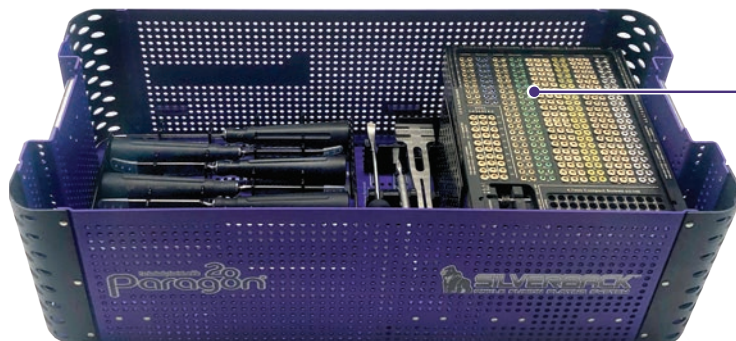


Silverback™ K-wire and Olive Wire Caddy

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

Silverback™ 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.



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, 10–50 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, 10–50 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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