



UNITE[®]
FOOT & ANKLE



INNOVATION
IN ACTION.

MEDLINEUNITE[®] Foot and Ankle System
Intelligently designed implants and instrumentation.

Strength
in numbers.

110+

anatomically designed,
indication-specific
titanium plates

Engineered for precision performance.

We're perfectionists in the name of precision. It's that meticulous attention to detail that makes all the difference, elevating your surgical performance at every step. Driven by the specialized needs of foot and ankle surgeons, Medline UNITE puts innovation into action.

40+

indications for
reconstructive foot and
ankle surgery



25+

unique plate families

30+

unique screw families

10+

procedure-specific trays with color-coded implants and instruments intuitively arranged in order of use for maximum surgical speed and efficiency, and reduced sterilization and processing costs

1

system, united. Driven by ingenuity, our comprehensive system is meticulously engineered to work together intuitively.

Intelligently designed.

The Medline UNITE Foot and Ankle System is based on our single-minded philosophy of Intelligent Design: To develop clinically advanced products with optimal functionality that are intuitive to use.



MEDIAL COLUMN FUSION PLATE



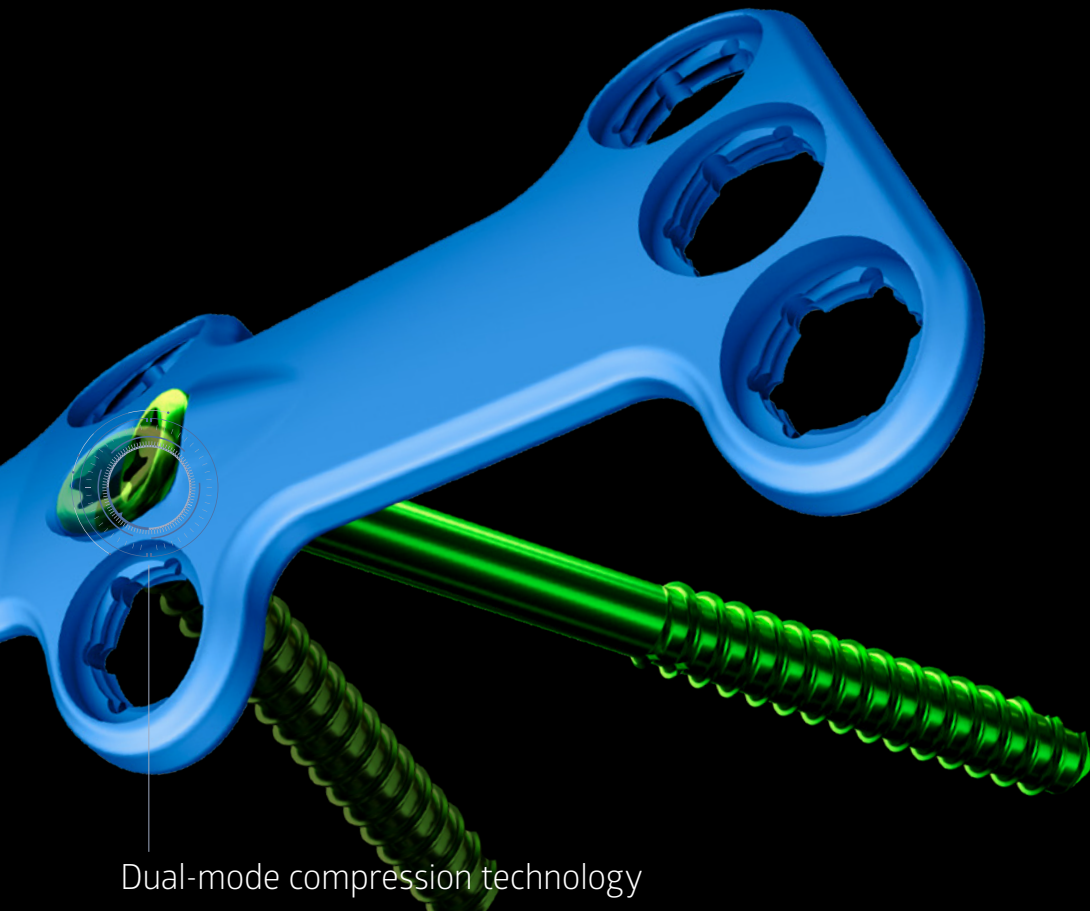
LISFRANC PLATE

Anatomically contoured

Our plates are contoured to the unique anatomical structures of the foot for a closer fit. Machined using state-of-the-art, five-axis CNC technology, every plate is milled from a single block of titanium alloy to ensure greater strength.

Minimal profile

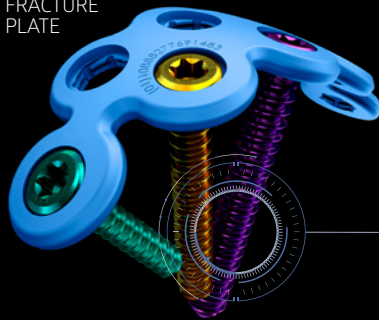
Plates are fabricated with a low profile and exceptionally smooth, beveled edge to minimize soft tissue irritation and provide greater patient comfort.



Dual-mode compression technology

Our advanced compression technology gives the surgeon the freedom to select either traditional dynamic compression or cross-plate interfragmentary compression.

NAVICULAR FRACTURE PLATE



MINI
2.0 mm
2.4 mm
2.7 mm

MTP FUSION PLATE



SMALL
2.7 mm
3.5 mm
4.0 mm

Polyaxial locking technology

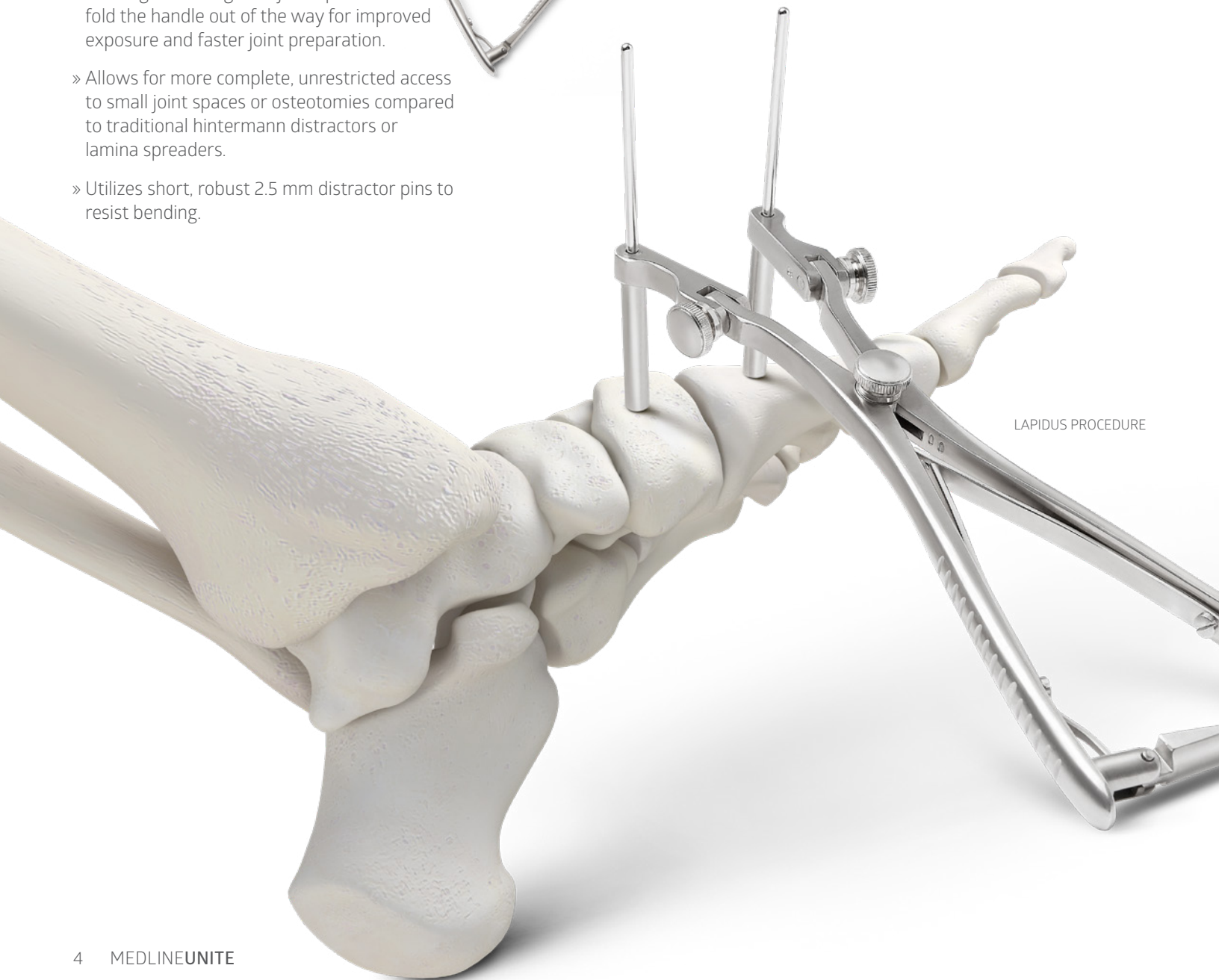
Universal plate holes accept polyaxial locking or non-locking screws in three different diameters, allowing for maximum intraoperative flexibility and patient-customized fixation.

Cutting-edge instrumentation

Advanced joint prep.

Articulating Pin Distractor

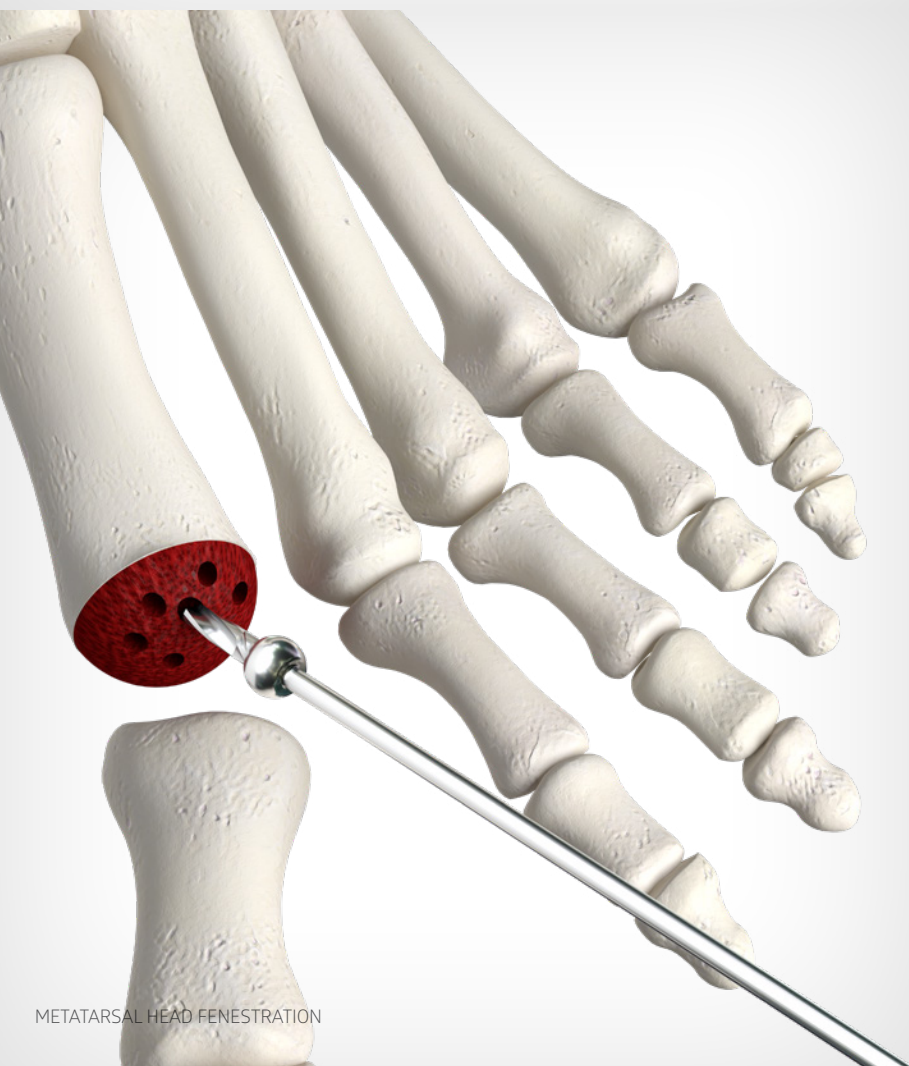
- » Articulating arms allow the surgeon to converge or diverge the joint space and fold the handle out of the way for improved exposure and faster joint preparation.
- » Allows for more complete, unrestricted access to small joint spaces or osteotomies compared to traditional hintermann distractors or lamina spreaders.
- » Utilizes short, robust 2.5 mm distractor pins to resist bending.



LAPIDUS PROCEDURE



TALONAVICULAR JOINT PREPARATION



METATARSAL HEAD FENESTRATION



Small Joint Arthrotome

- » Short, curved, compact design enables greater control and easier access to small joints compared to longer traditional osteotomes.
- » Dual-cutting feature allows the surgeon to push or pull to scrape and remove cartilage more quickly and effectively.
- » AO quick connect to fit into the silicone-grip screwdriver handle for greater comfort and ergonomic use. It also ensures easy replacement and assured sharpness.



Fenestration Drill Pin

- » 2.0 mm fluted cutting feature effectively removes bone, promotes bleeding at the joint surface, and reduces the likelihood of thermal necrosis compared to a k-wire.¹
- » Short design with beaded stop helps deliver more controlled joint fenestration compared to a longer standard drill bit.
- » Smooth proximal shaft fits into a standard wire driver.

Cutting-edge instrumentation

Reduction instruments and guides.



Fibula Lengthening Distractor

When standard reduction instrumentation and techniques prove insufficient to elongate a shortened fibula, the Fibula Lengthening Distractor can help restore proper length, similar to a push-pull technique. The distractor's unique locking tower arms thread into the plate for greater control during use.



DrillGauge™ 3-in-1 System

Designed to drive speed, efficiency, and accuracy, the DrillGauge system features a solid drill bit connected to a spring-loaded drill guide that's engineered with depth-gauge functionality.

This 3-in-1 instrument system allows the surgeon to guide the drill into the center of the desired plate hole, up to 15 degrees off-axis, and measure the appropriate screw length with a simple one-handed technique.

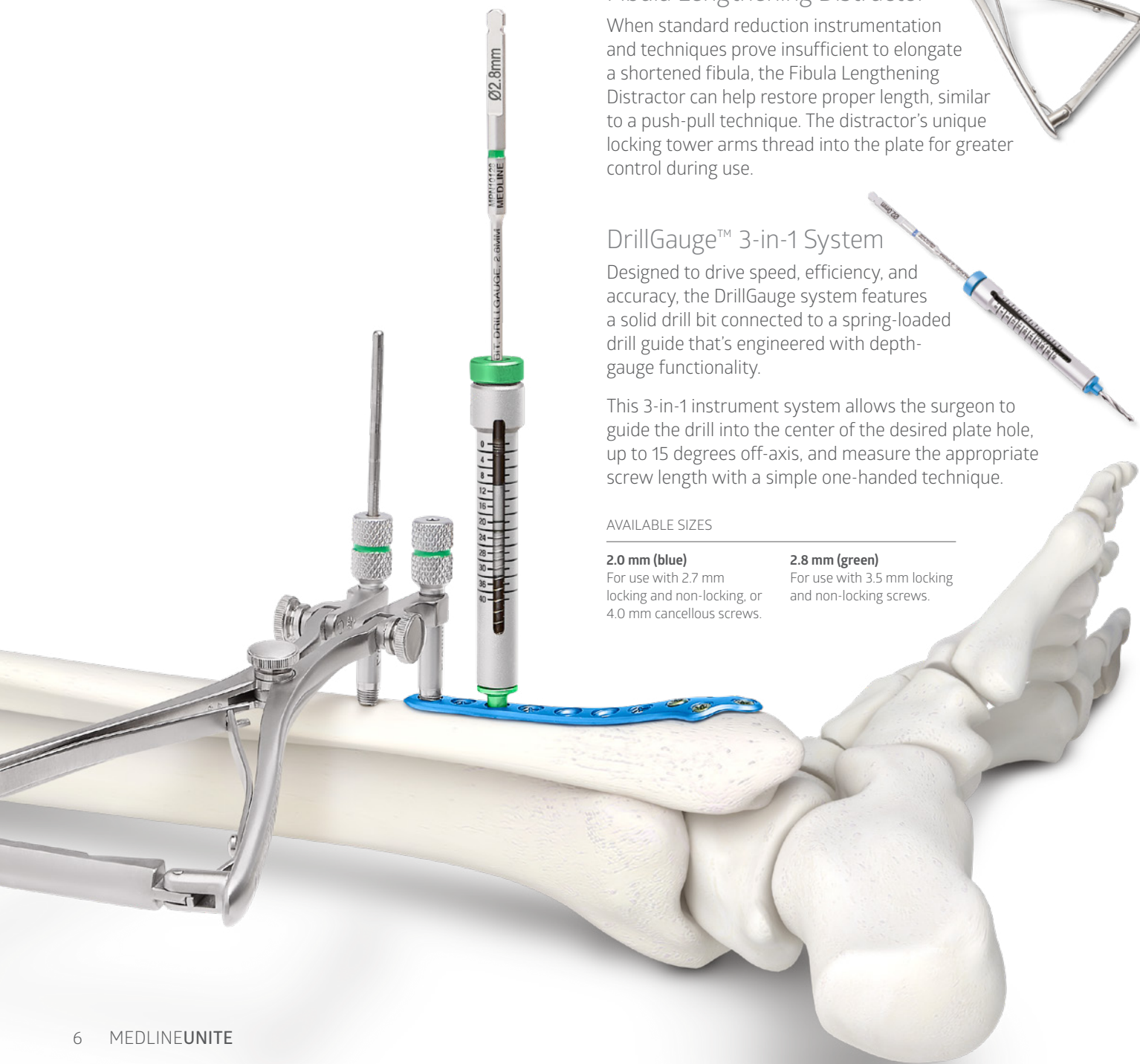
AVAILABLE SIZES

2.0 mm (blue)

For use with 2.7 mm locking and non-locking, or 4.0 mm cancellous screws.

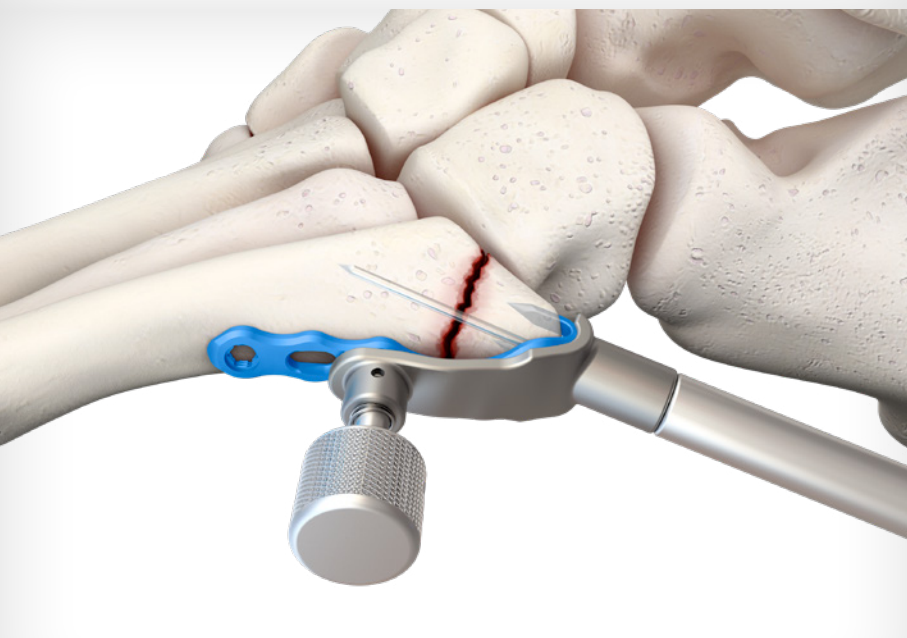
2.8 mm (green)

For use with 3.5 mm locking and non-locking screws.





REDUCTION AND PLATE ALIGNMENT



PROVISIONAL PLATE PLACEMENT



FINAL CONSTRUCT

5th Metatarsal Hook Plate Technique

Aids in proper plate alignment, fracture reduction, and final plate fixation.

Reduction and Plate Alignment

- 1 | Use the distal end of the hook plate guide as a template to determine the proper plate alignment and positioning and secure the guide to the metatarsal using a temporary fixation pin.
- 2 | Place a 1.4 mm guidewire through the center wire hole of the guide for provisional fixation of the fragment and to determine trajectory for the 4.0 mm cannulated hook plate screw.
- 3 | Pre-drill for each of the plate's hooks using the flexible 1.4 mm nitinol drill pin.



HOOK PLATE GUIDE

Provisional Plate Placement

- 1 | Nest the desired plate within the inserter and secure it by threading the spring-loaded knob into the plate.
- 2 | Slide the inserter/plate construct over the guidewire to ensure that the hooks penetrate the pre-drilled holes.
- 3 | Slide the hook plate impactor over the guidewire and into the hook plate inserter and gently impact using a mallet, taking care not to displace the fragment.



HOOK PLATE INSERTER

Final Construct

- 1 | After removing the hook plate guide and securing the plate with a temporary fixation pin, measure the hook plate screw length using the cannulated depth gauge.
- 2 | Pre-drill if desired, and insert the 4.0 mm hook plate screw to compress the fracture.
- 3 | Place a non-locking screw in the compression slot and finish the construct using locking screws.

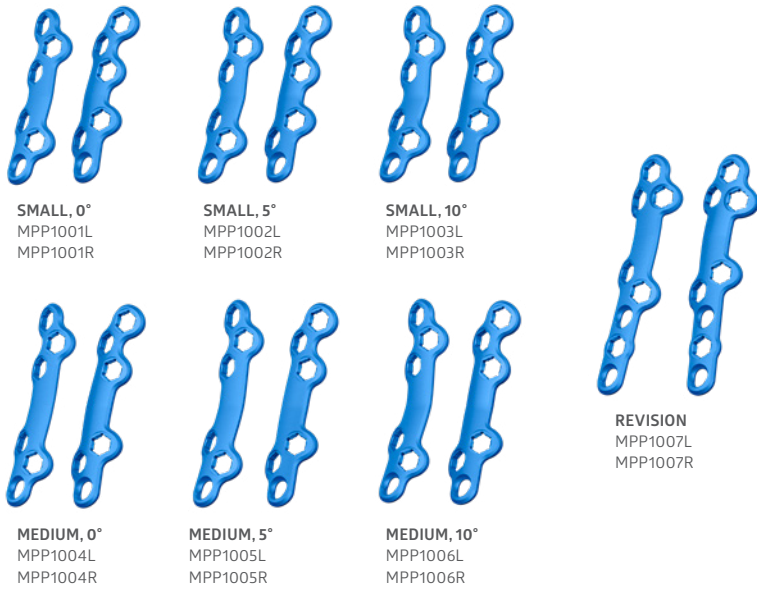


Foot and ankle plate indications

Our system is designed to address the complexity of the foot and ankle anatomy with intelligent solutions for every major indication.

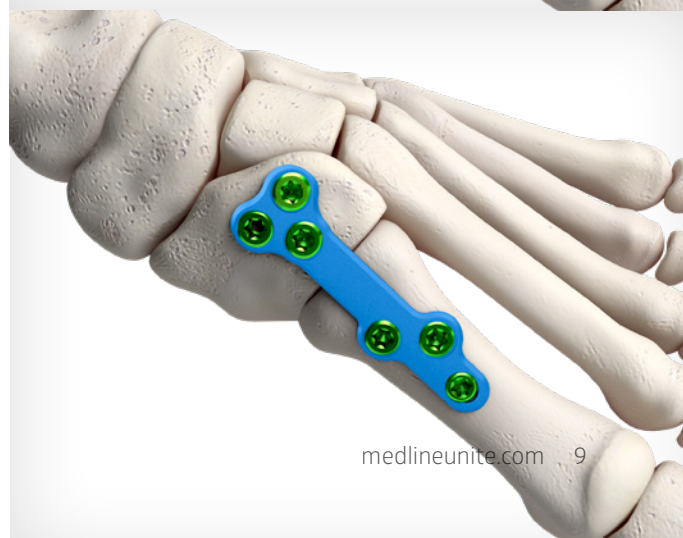
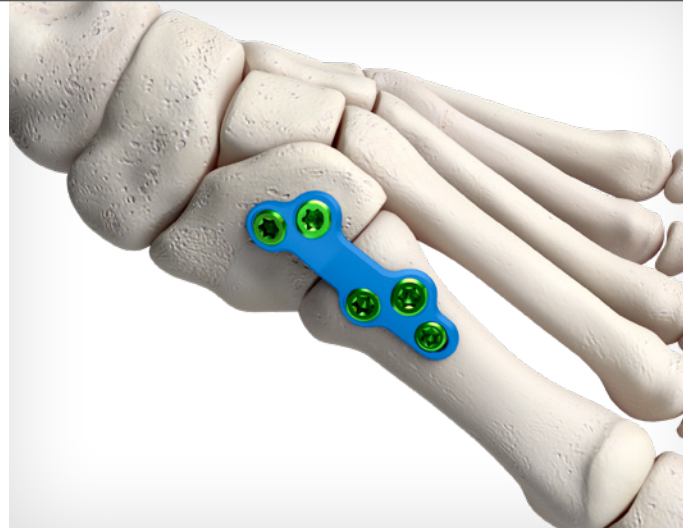
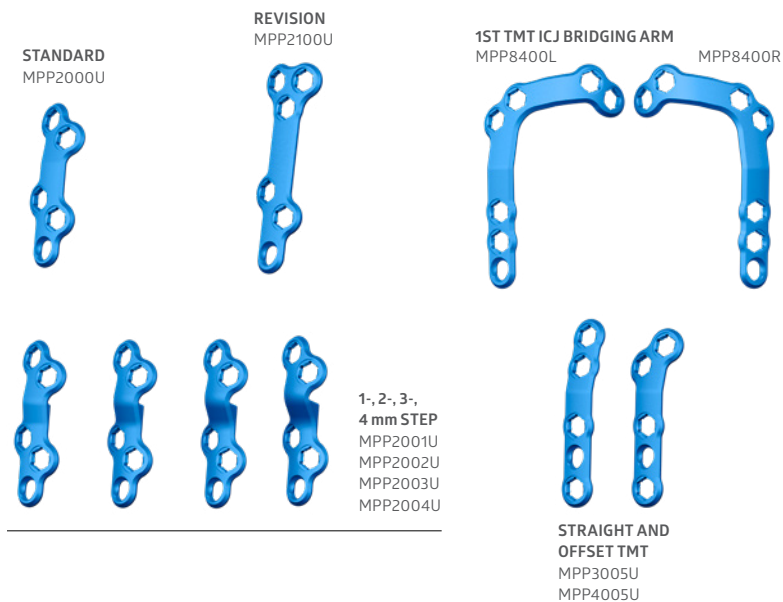
HALLUX RIGIDUS | MTP FUSION

MTP Fusion plates are designed with a narrower, elongated distal cluster for reduced prominence over proximal phalanx and easier soft tissue closure. Plates are available in various dorsiflexion angle and length options to address variations in patient size.



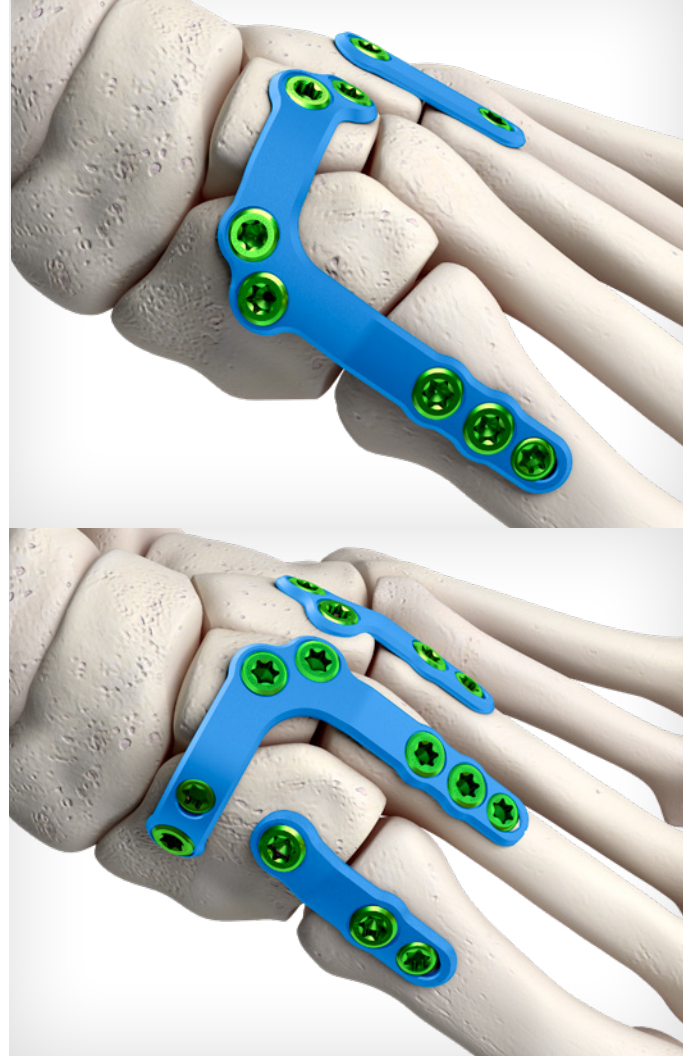
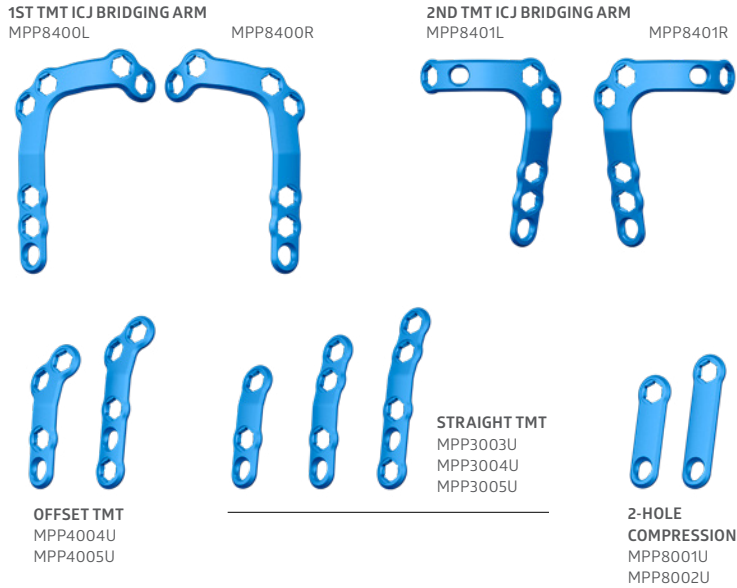
HALLUX VALGUS | LAPIDUS

The extensive Lapidus plate family offers standard (primary), revision (graft-spanning), intercuneiform joint-bridging, and step-off options to address various scenarios encountered during 1st TMT joint arthrodesis. All plates feature an oblong slot with a steep ramp design, strategically located over harder diaphyseal bone for more effective joint compression.



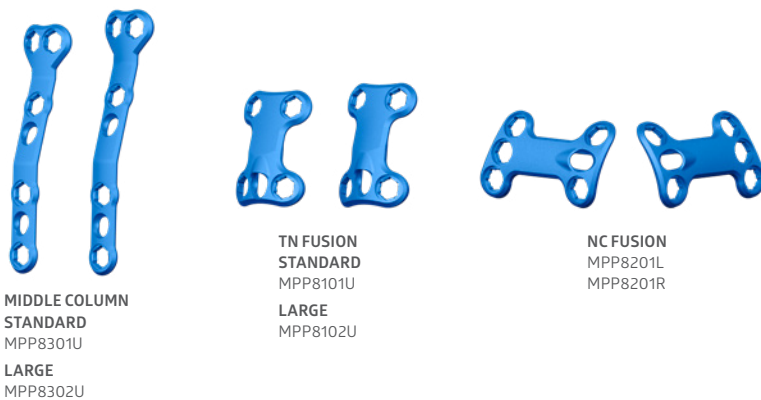
MIDFOOT RECON | LISFRANC/TMT FUSION

Unique deconstructed U-style Lisfranc plates address variations in injury pattern and patient anatomy. The non-constraining designs provide the intraoperative flexibility to choose the most appropriate construct for isolated TMT joints.



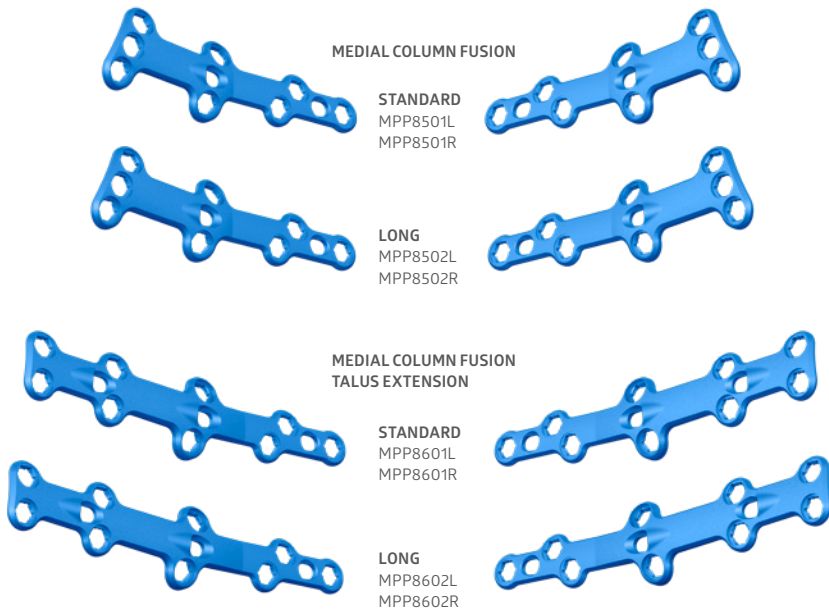
MIDFOOT RECON | NAVICULAR INVOLVEMENT

TN and NC Fusion plates feature our advanced dual-mode compression technology, giving the surgeon the freedom to select either traditional dynamic compression or cross-plate interfragmentary compression. The uniquely contoured Middle Column Fusion plate is the first of its kind to address complex midfoot arthritis patterns with NC joint involvement.



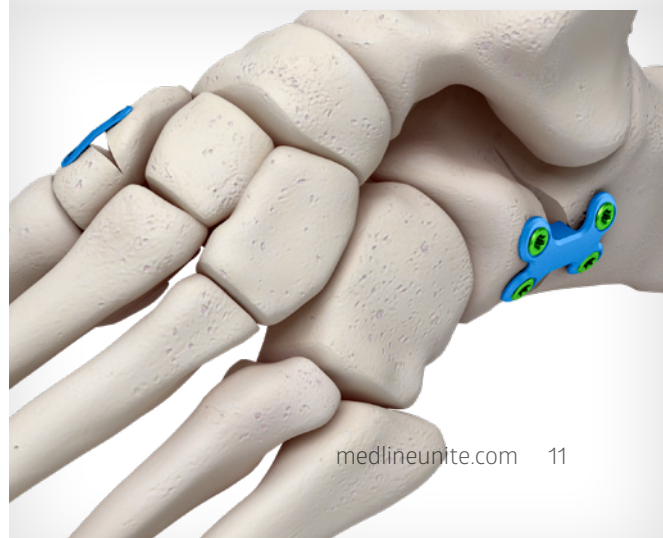
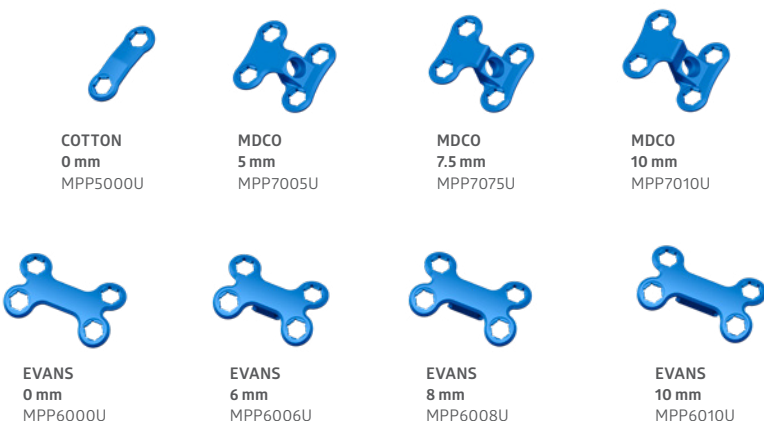
MEDIAL COLUMN FUSION

Medial Column Fusion plates feature our advanced dual-mode compression technology, giving the surgeon the freedom to select either traditional dynamic compression or cross-plate interfragmentary compression. Additionally, these plates are up to 2.5 mm thick in certain sections and accommodate up to 4.0 mm locking and non-locking screws for patients requiring more robust fixation.



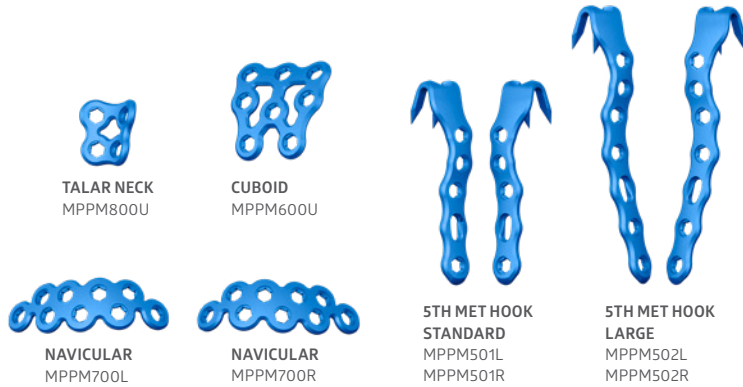
FLATFOOT RECON

MDCO plates feature a compression hole that targets the sustentaculum tali to help firmly compress the calcaneal tuberosity, while Evans Wedge plates are designed with barbs to securely anchor the plate onto the proximal cortex. Flat plates are available to use over our pre-hydrated, pre-shaped Evans and Cotton Wedge Bioimplants.



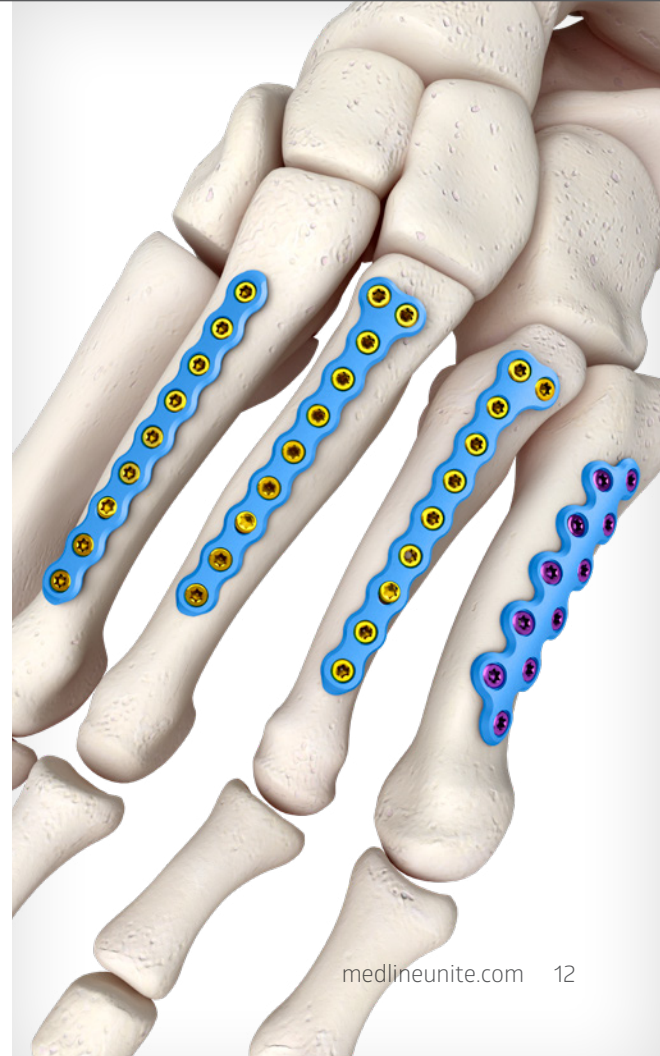
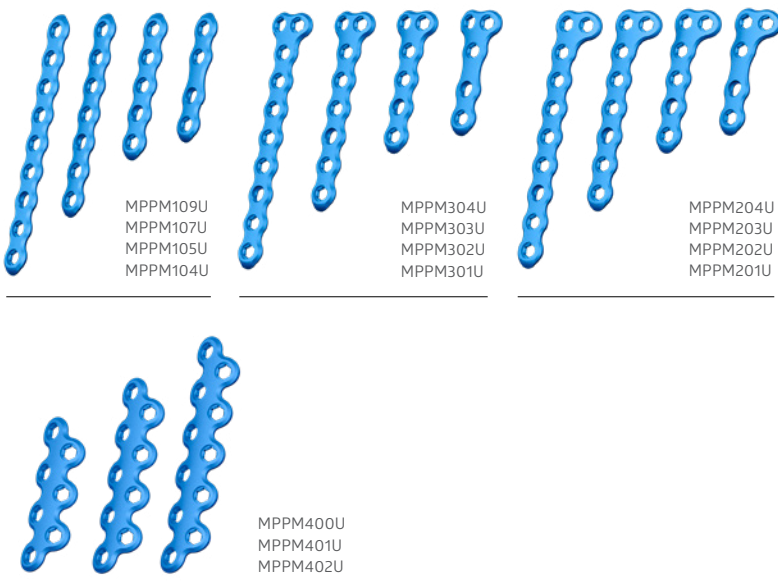
5TH METATARSAL AND TARSAL FRACTURE

The 5th Metatarsal Hook plate system utilizes a unique guide and inserter to aid in proper plate alignment, fracture reduction, and plate placement for increased speed and efficiency. Anatomically contoured, tarsal-specific plating options allow for greater fixation when addressing comminuted fracture patterns.



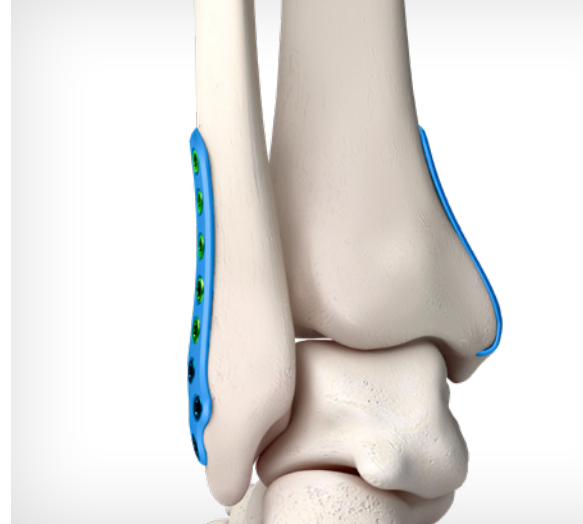
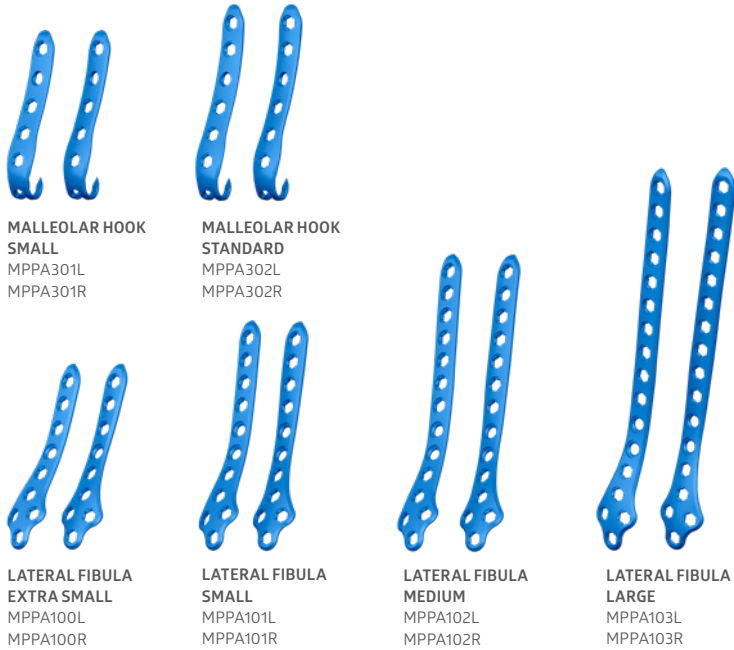
UTILITY METATARSAL FRACTURE

Metatarsal Z plates provide a more robust option for fixation of 1st and 5th metatarsal fractures. The short, 4-hole Straight, T, and L Metatarsal plates feature a bridge to span fractures or osteotomies and increase strength.



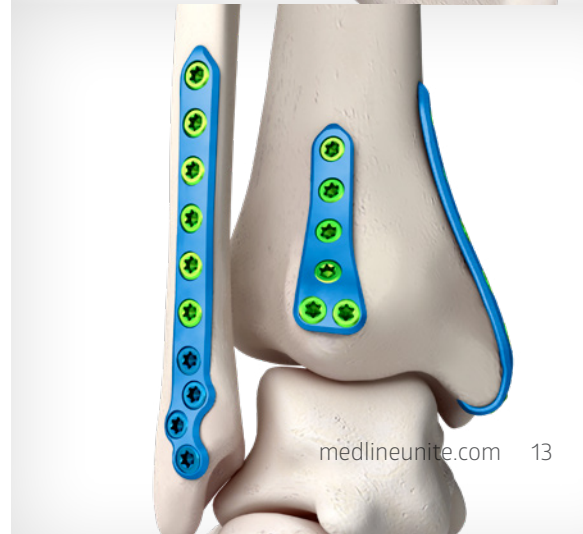
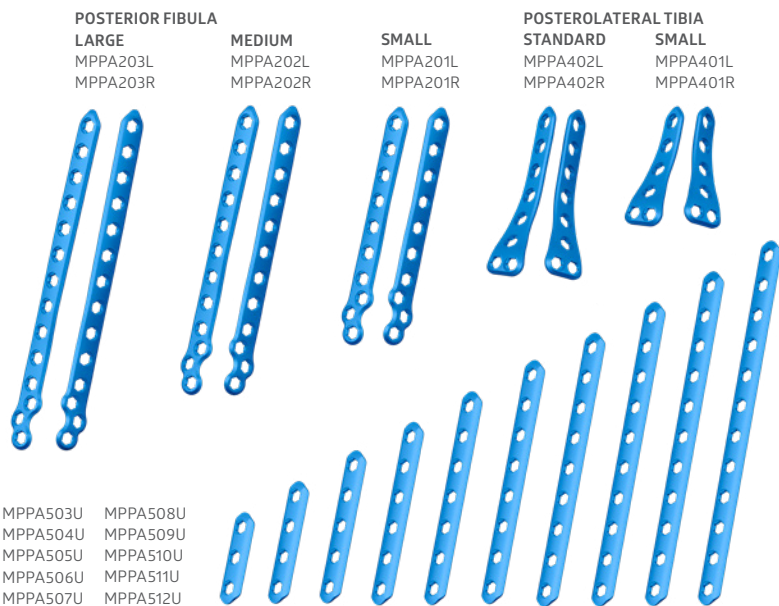
MALLEOLAR HOOK AND LATERAL FIBULA

The Malleolar Hook plate features long, sharp hooks for enhanced small fragment fixation, while its guide aids in proper plate alignment and trajectory for the optional homerun screw. Lateral Fibula plates feature syndesmotomic slots designed to accommodate suture button fixation devices, as well as 3.5 mm or 4.0 mm syndesmotomic screws up to 60 mm in 2 mm increments to avoid medial soft tissue irritation.



STRAIGHT AND ANATOMIC POSTERIOR TIBIA/FIBULA

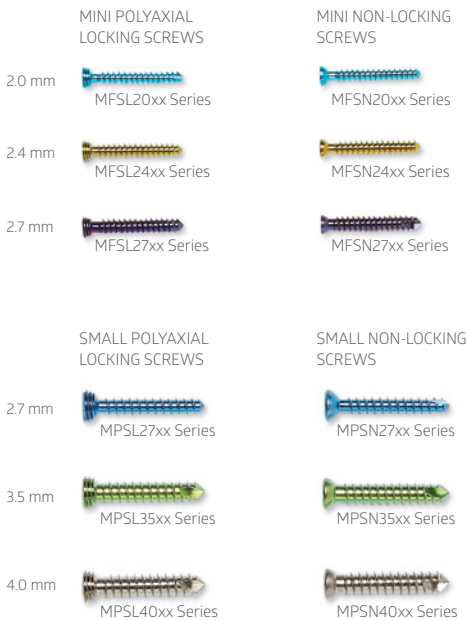
Optimized for the treatment of tri-malleolar ankle fractures and the posterior approach, the Posterior Fibula plates offer superior distal fixation and fit compared to conventional one-third tubular plates, while the Posterolateral Tibia plates feature a built-in anterosuperior screw trajectory to avoid impinging the tibiotalar joint space.



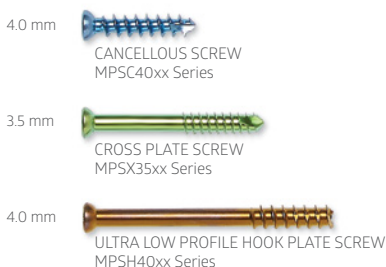
Precision performance at every turn.

Medline UNITE Screws are color-coded with instruments and intuitively arranged in order of procedure flow for greater efficiency. Across our portfolio, STAR drive design ensures maximum torque and reduced head stripping.

Plate screws



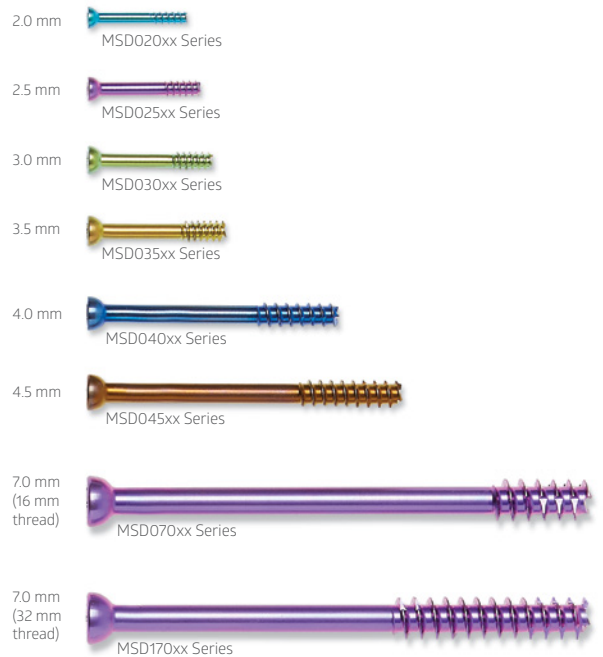
Specialty plate screws



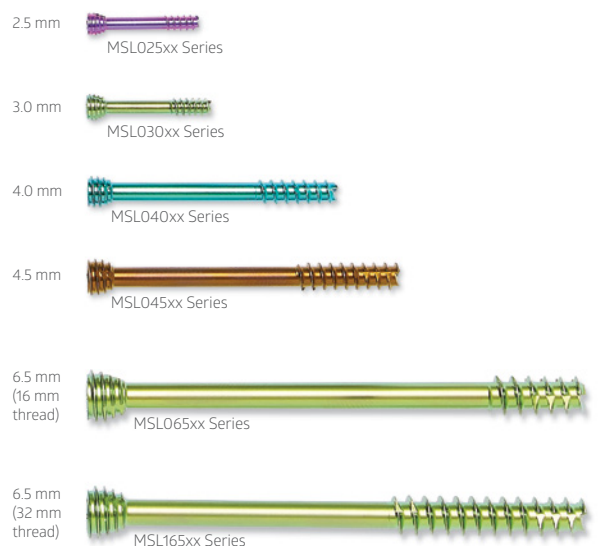
Snap-off screws



Low-profile headed cannulated screws



Headless compression cannulated screws





Expertise in practice.

UNITE is guided by the expertise of our surgeon design team, down to the finest details. Ongoing collaboration at every step of the way is at the heart of the process in order to address the complex unmet needs of surgeons and advance clinical performance through intelligent design.

Medline UNITE Surgeon Design Team

J. Kent Ellington, MD, Charlotte, NC^{1,2,3,4}

John Y. Kwon, MD, Boston, MA³

John S. Lewis, MD, Louisville, KY²

Alexander J. Pappas, MD, Myrtle Beach, SC²

Ryan T. Scott, DPM, Phoenix, AZ⁴

Scott B. Shawen, MD, Charlotte, NC²

Matthew D. Sorensen, DPM, Chicago, IL³

R. James Toussaint, MD, Gainesville, FL⁴

1. Foot Recon Plating | 2. Advanced Midfoot Recon Plating
3. Mini Foot Plating | 4. Ankle Fracture Plating



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Medline Industries, Inc. Three Lakes Drive, Northfield, IL 60093

Medline United States
1-800-MEDLINE (633-5463)
medlineunite.com | unite@medline.com

Medline Canada
1-800-396-6996
medline.ca | canada@medline.com

Medline México
01-800-831-0898
medlinemexico.com | mexico@medline.com

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REFERENCES: Palmisano, A.C., et al. Heat Accumulation During Sequential Cortical Bone Drilling. Wiley Online Library, September 2015.

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