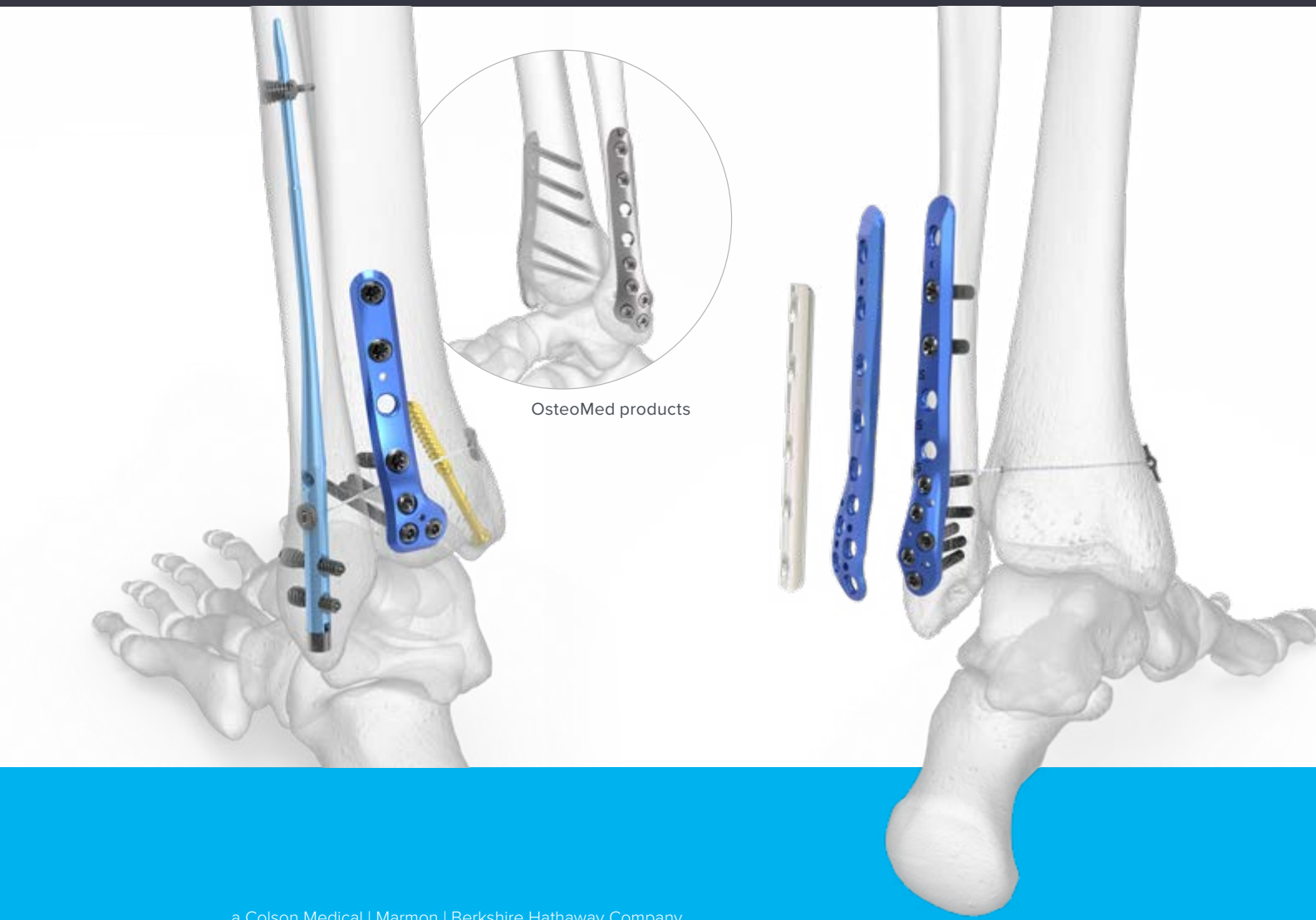
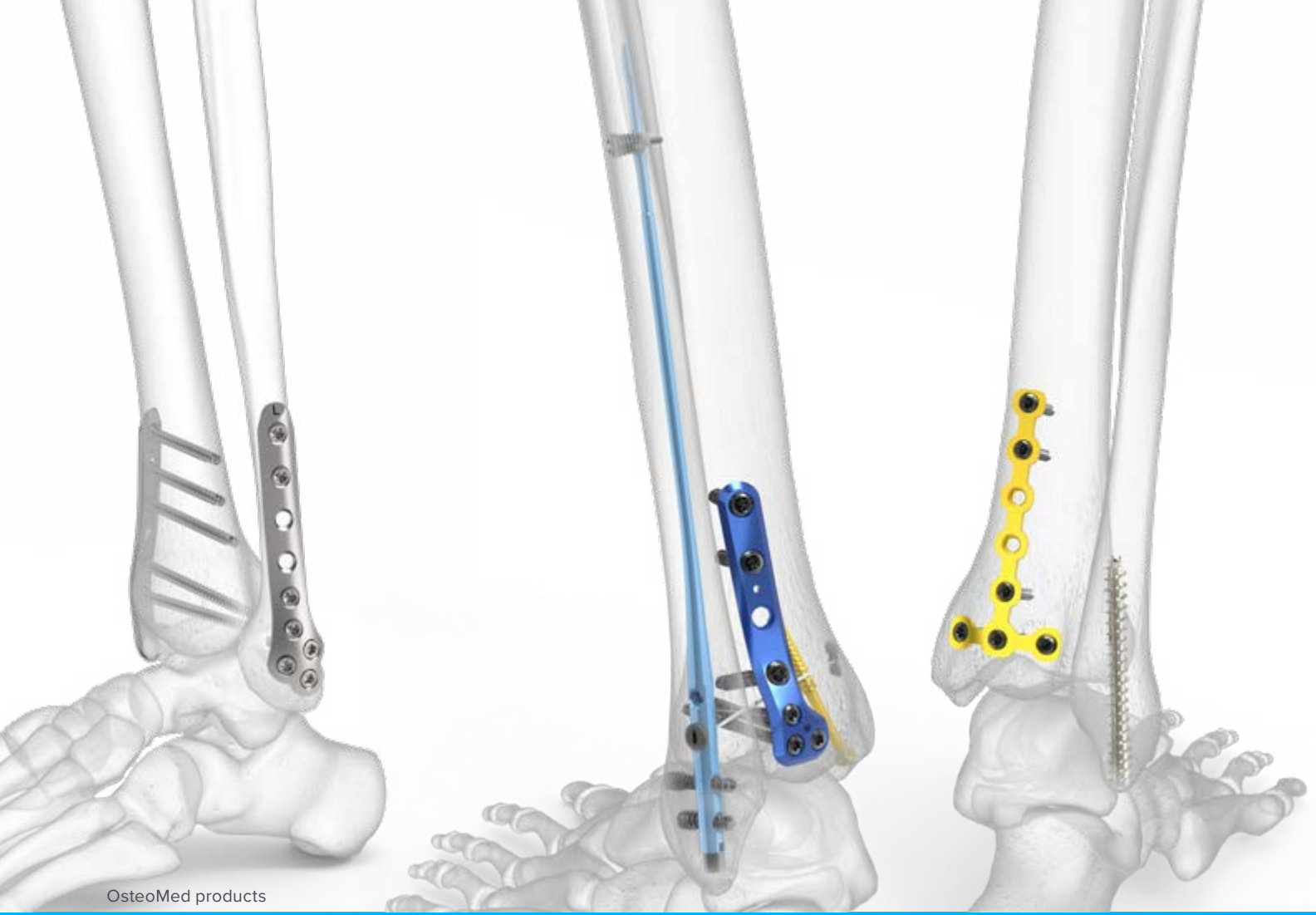
acumed®

A Complete Selection of Trimalleolar Fracture Solutions



OsteoMed products

a Colson Medical | Marmon | Berkshire Hathaway Company



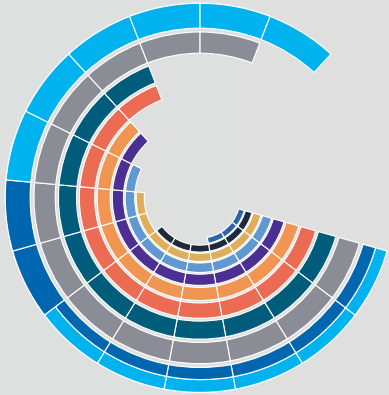
OsteoMed products

Acumed® has the Most Complete Selection of Lower Extremity Fixation and Specialty Plates on the Market‡

Lower Extremity Fixation: Acumed | OsteoMed vs the Competition‡

See below for a visual guide to how our offerings stack up against ten of our competitors.

Ankle Fixation



Screws

- Acumed
- OsteoMed
- Arthrex
- DePuy Synthes
- Medartis
- Stryker
- Paragon 28
- Zimmer Biomet
- TriMed
- Wright Medical
- Skeletal Dynamics
- Smith & Nephew

For more information:
go.acumed.net/TriMal
888.627.9957

Lateral Malleolus Fixation Solutions

Thin Distal Taper
Designed to minimize soft tissue irritation, Lateral and Posterolateral Fibula Plates measure 1.5 mm at the distal end.

ExtremiLock™ Lateral Fibula and Distal Fibula Plates*
The Lateral Fibula Plates in the system feature a slot that accommodates up to two screws for syndesmotic fixation while the Distal Fibula Plate offers options for screw or flexible syndesmotic fixation.

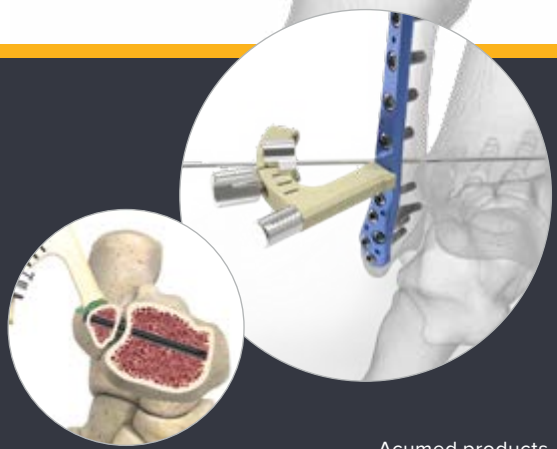
Distal Screw Cluster
2.7 mm screw cluster addresses distal comminution.

*OsteoMed products

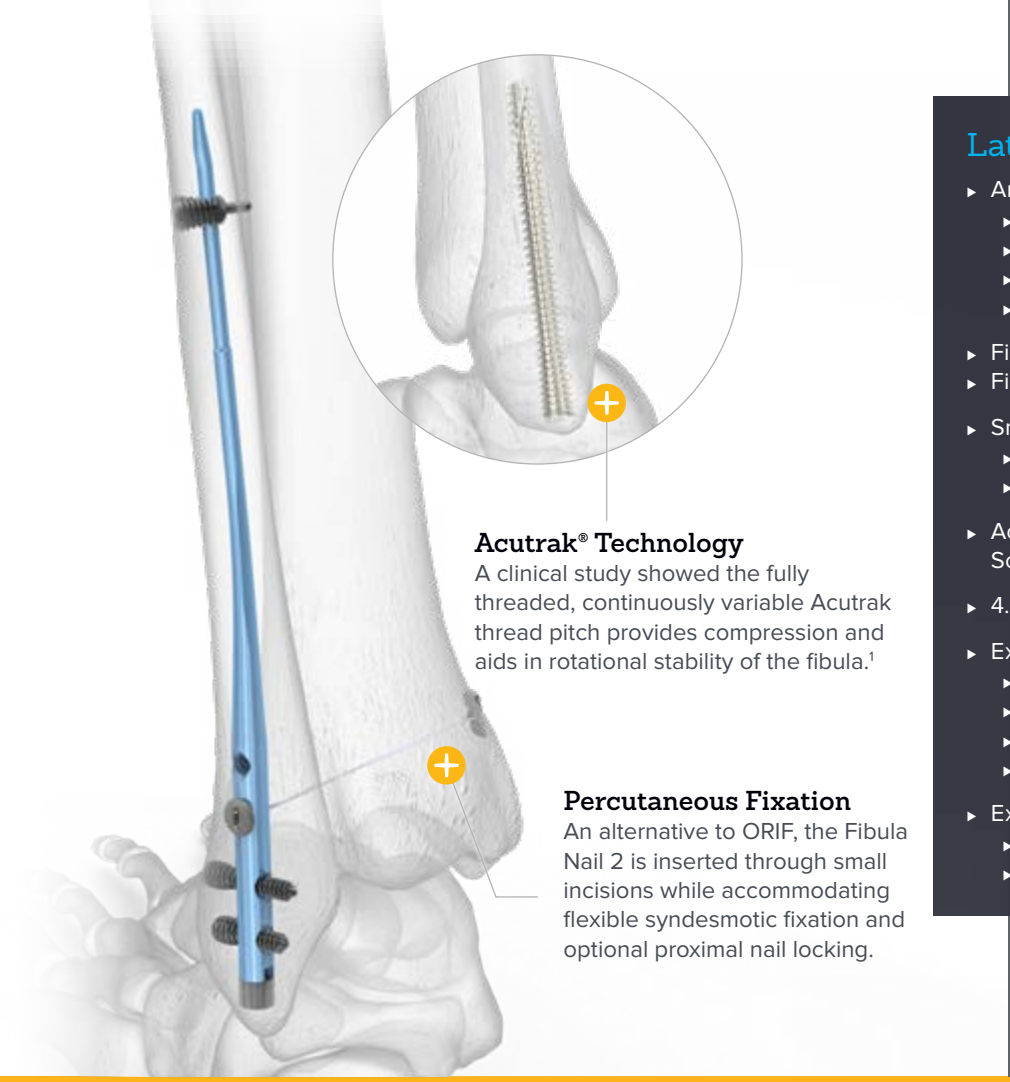
Syndesmotic Fixation
Features in the Lateral and Posterolateral Fibula Plates are designed for targeted syndesmotic fixation.

Specialty Instrumentation

Syndesmosis Targeting Guide
Unique to Acumed, the guide attaches to the Posterolateral Fibula Plate and is an optional instrument designed to target the desired angle for syndesmotic screw fixation.



Acumed products



Acutrak® Technology
A clinical study showed the fully threaded, continuously variable Acutrak thread pitch provides compression and aids in rotational stability of the fibula.[1]

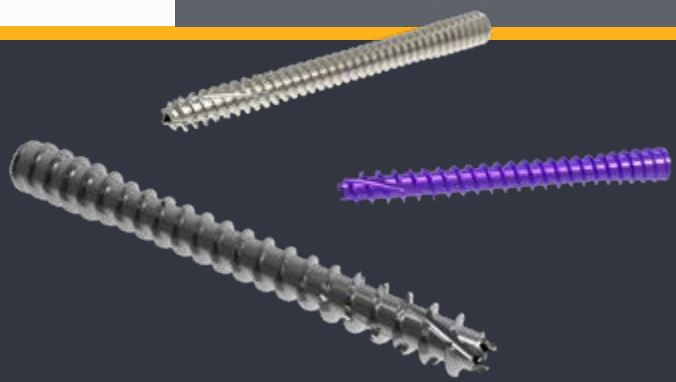
Percutaneous Fixation
An alternative to ORIF, the Fibula Nail 2 is inserted through small incisions while accommodating flexible syndesmotic fixation and optional proximal nail locking.

Lateral Malleolus Solutions

- Ankle Plating System 3
  - Lateral Fibula Plate
  - Posterolateral Fibula Plate
  - Hook Plate
  - Locking Peg Hook Plate
- Fibula Nail 2 System
- Fibula Rod System
- Small Fragment Base Set
  - One-Third Tubular Plates
  - 2.7 mm Fragment Plates
- Acutrak 2® Headless Compression Screw System
- 4.0 mm Cannulated Screws
- ExtremiLock™ Ankle Plating System*
  - Lateral Fibula Plate
  - Distal Fibula Plate
  - One-Third Tubular Plate
  - Universal Hook Plate
- ExtremiFix™ Cannulated Screw System*
  - Mini & Small
  - Midsize & Large

An Industry First

Acutrak Headless Compression Screw System
Acutrak technology produced the **first and still the only** continuously variable thread pitch headless compression screw on the market. Acumed's engineering know-how and manufacturing skill have forged a legacy of **Acutrak quality based on a quarter-century of expertise.**

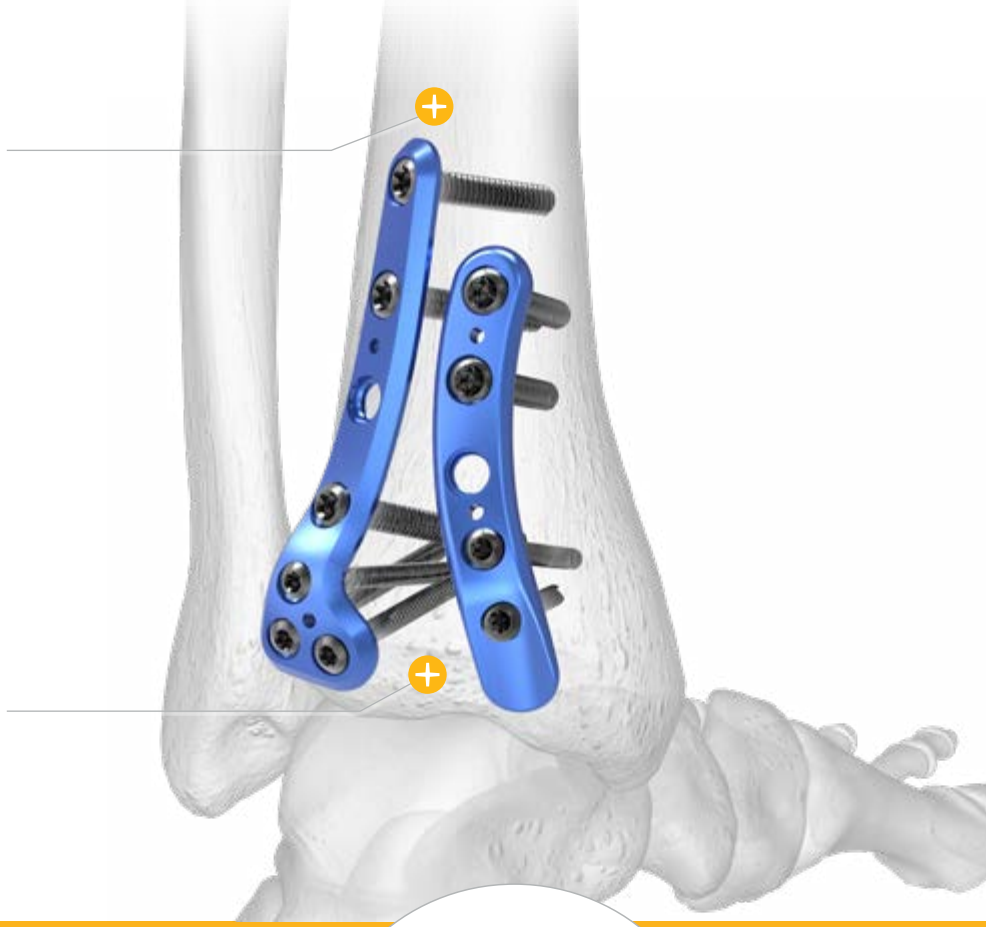


*OsteoMed products

Posterior Malleolus Fixation Solutions

Thin Distal Plate End
Posterolateral and Posteromedial Distal Tibia plates taper distally to minimize soft tissue irritation.

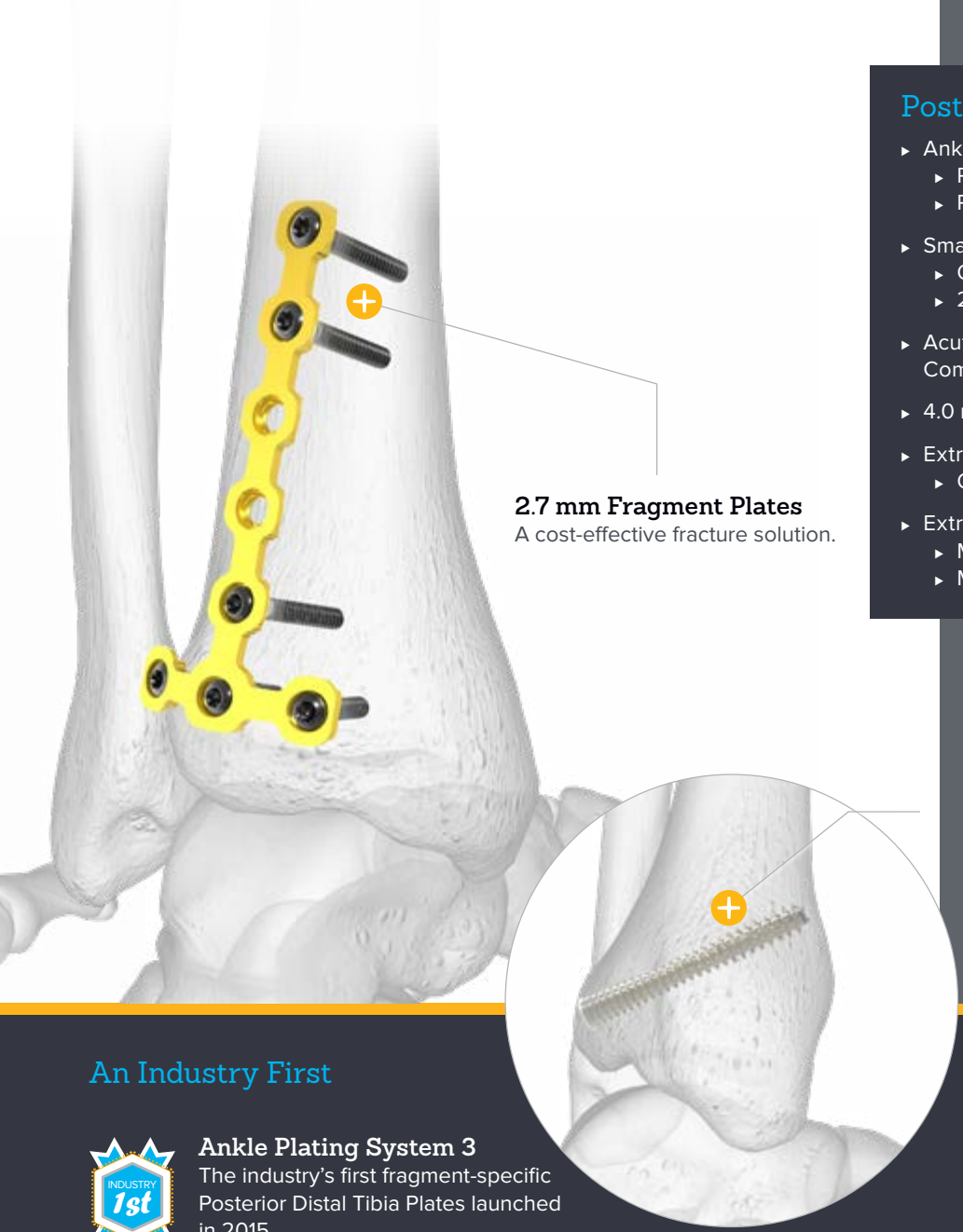
15° Screw Trajectories
Distal 2.7 mm screws are angled 15° superiorly to avoid the joint space.



Specialty Instrumentation

2.7 mm Fragment Plate Cutter and Plate Benders
2.7 mm Fragment Plates can be bent in situ or ex situ to accommodate patient anatomy and fracture pattern.

Acumed products



Posterior Malleolus Solutions

- Ankle Plating System 3
  - Posterolateral Distal Tibia Plate
  - Posteromedial Distal Tibia Plate
- Small Fragment Base Set
  - One-Third Tubular Plates
  - 2.7 mm Fragment Plates
- Acutrak 2® Headless Compression Screw System
- 4.0 mm Cannulated Screws
- ExtremiLock™ Ankle Plating System*
  - One-Third Tubular Plate
- ExtremiFix™ Cannulated Screw System*
  - Mini & Small
  - Midsize & Large

2.7 mm Fragment Plates
A cost-effective fracture solution.

Acutrak 2® Headless Compression Screw System
The Acutrak screw's continuously variable thread pitch design allows a fracture or osteotomy site to lie almost anywhere along the length of the screw.

An Industry First

Ankle Plating System 3
The industry's first fragment-specific Posterior Distal Tibia Plates launched in 2015.

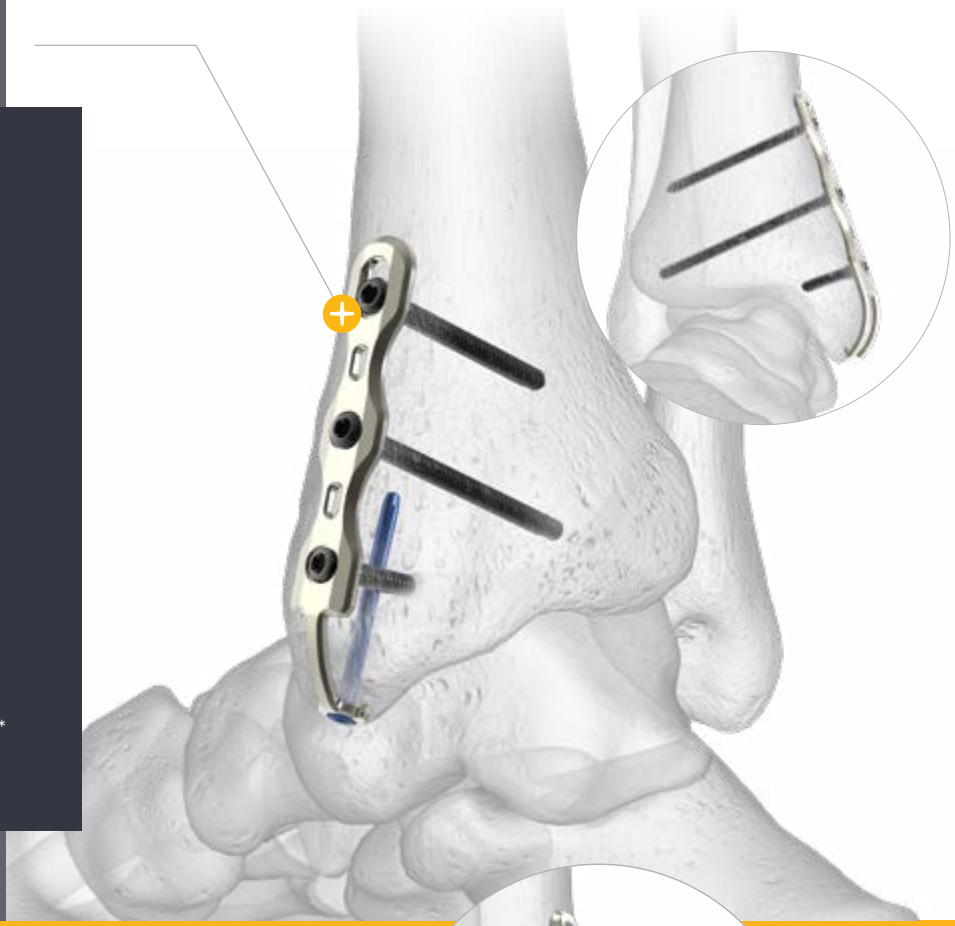
*OsteoMed products

Medial Malleolus Fixation Solutions

Two Hook Plate Options
Traditional Hook Plates are available for small avulsion fragments, while the Locking Peg Hook Plate is available for stabilizing larger avulsion fragments.

Medial Malleolus Fixation Solutions

- Ankle Plating System 3
  - Medial Anti-Glide Plate
  - Hook Plate
  - Locking Peg Hook Plate
- Small Fragment Base Set
  - One-Third Tubular Plates
  - 2.7 mm Fragment Plates
- Acutrak 2® Headless Compression Screw System
- 4.0 mm Cannulated Screws
- ExtremiLock™ Ankle Plating System*
  - Medial Tibia Plate
  - Universal Hook Plate
  - One-Third Tubular Plate
- ExtremiFix™ Cannulated Screw System*
  - Mini & Small
  - Midsize & Large



Specialty Instrumentation

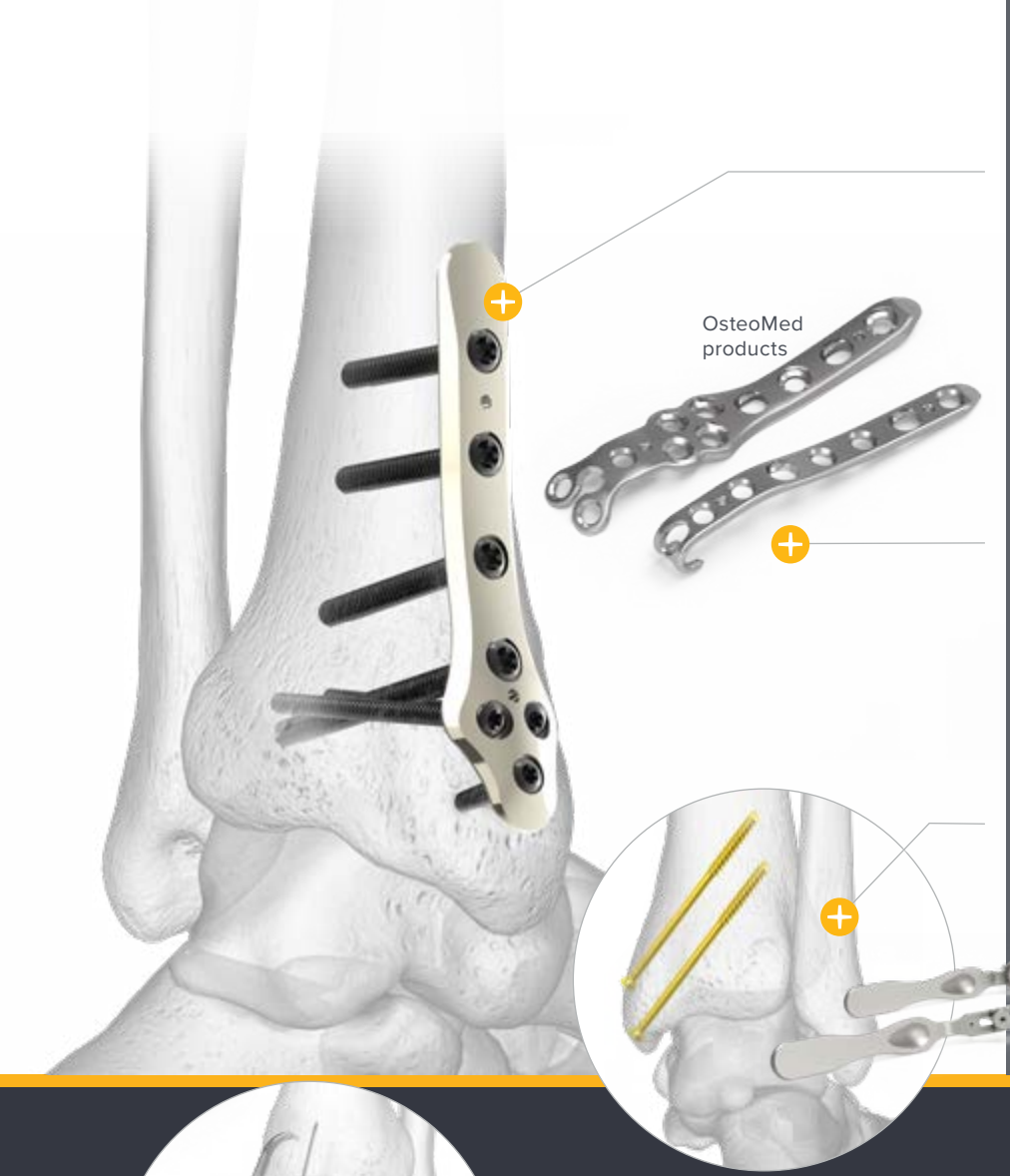
Hook Plate Reduction Handle
Attaches to the Hook Plates and Locking Peg Hook Plates to aid in reduction and control plate placement. The attached cannulated bolt threads into the most distal plate hole.

An Industry First

INDUSTRY 1st

Ankle Plating System 3
The Hook Plate Reduction handle allows for controlled fixation and reduction.

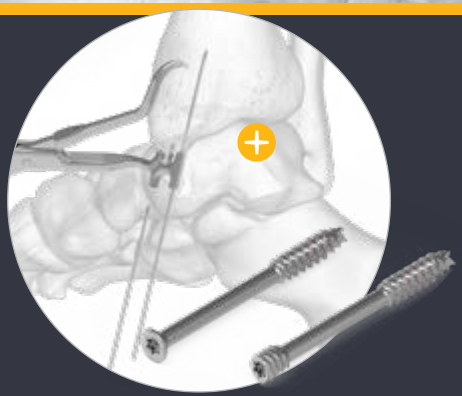
*OsteoMed products



Medial Anti-Glide Plate
Designed to buttress vertical sheer fractures from proximal migration.

ExtremiLock™ Universal Hook Plate and Medial Tibia Plate*
A Universal Hook Plate may be used for avulsion fractures of the lateral or medial malleolus. Distal tabs in the Medial Tibia Plate accommodate screw placement for comminuted fractures while staggered screw trajectories are intended to address oblique fracture patterns.

4.0 mm Cannulated Screws and Parallel Wire Guide
Allows placement of two parallel wires. The drop-in cannula can be assembled after initial wire placement, and then adjusted to select the optimal distance between wires and ultimately screw fixation.



ExtremiFix™ Cannulated Screws* and Medial Malleolar Clamp
Designed to aid in placement of .045" guide wires while reducing and stabilizing the medial malleolar fragment.

*OsteoMed products

Ankle Syndesmosis Repair System

with Acu-Sinch® Knotless

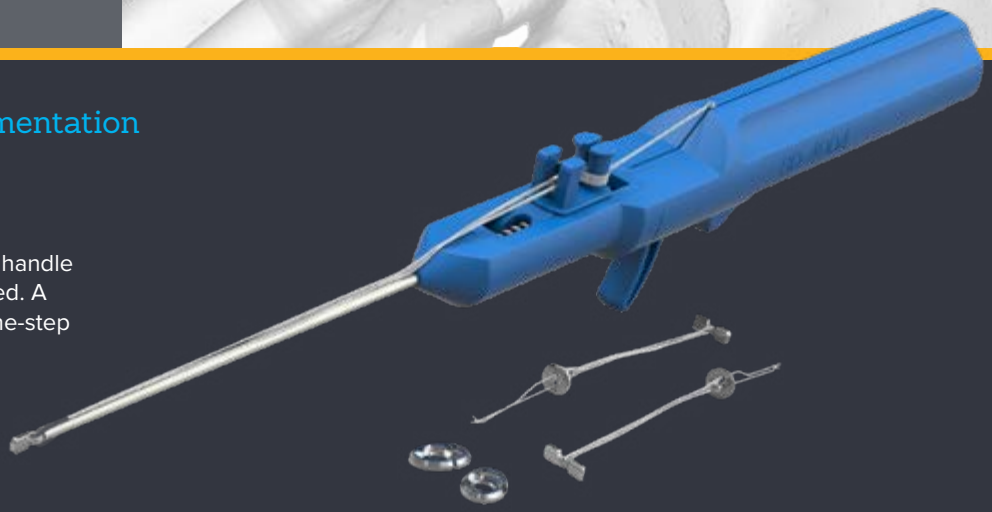
Designed in conjunction with Alastair Younger, MB, Ch.B., M.Sc., Ch.M., FRCS(C); Selene Parekh, MD, MBA; and Steven Morgan, MD, the Acu-Sinch Knotless Implant enables the dynamic stabilization of laxity or syndesmotic disruptions to the tibiofibular joint.

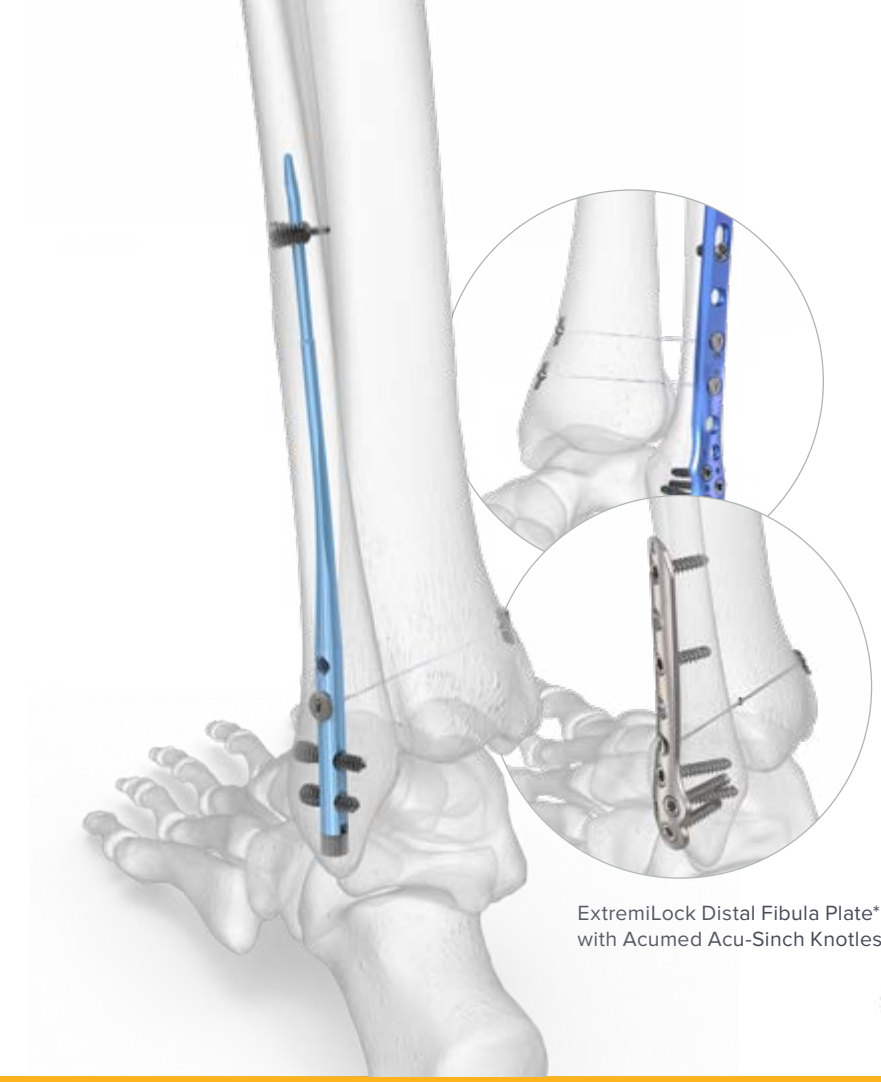
The Acu-Sinch Knotless buttons may be augmented with a washer or may be used in conjunction with the Acumed and OsteoMed® fibula fracture fixation plates and intramedullary nails with 3.5 mm nonlocking screw holes.

Our patent pending release mechanism gives the user control to place the medial button subcutaneously without the need for direct visualization.

Straightforward Instrumentation

Acu-Sinch Knotless Handle
The Acu-Sinch Knotless System is provided on a disposable inserter handle preassembled and sterile packaged. A spring-loaded trigger allows for one-step Flip Button delivery.





ExtremiLock Distal Fibula Plate*
with Acumed Acu-Sinch Knotless

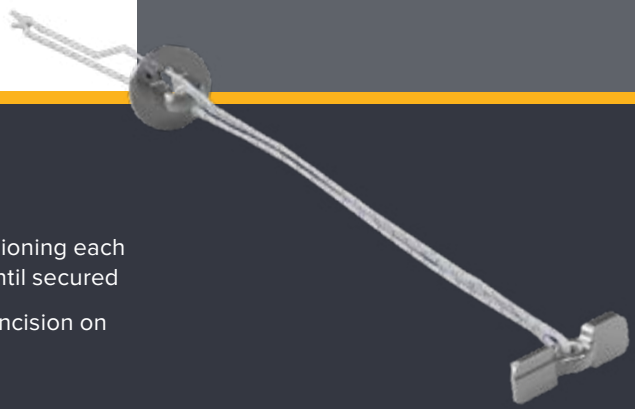
Compatible Nails

- Fibula Rod System
- Fibula Nail 2 System

Compatible Plates

- Ankle 3 Lateral Fibula Plates
- 1/3 Tubular Plates
- Locking Ankle System (LPL) Fibula Plates
- ExtremiLock™ Ankle Distal Fibula Plate*
- ExtremiLock 1/3 Tubular Plates*

The Acu-Sinch Knotless implant is compatible with titanium implants (e.g. plates and nails) that have holes designed to accept 3.5 mm nonlocking cortical screws.



Benefits of the Ankle Syndesmosis Repair

Streamlined Design and Technique

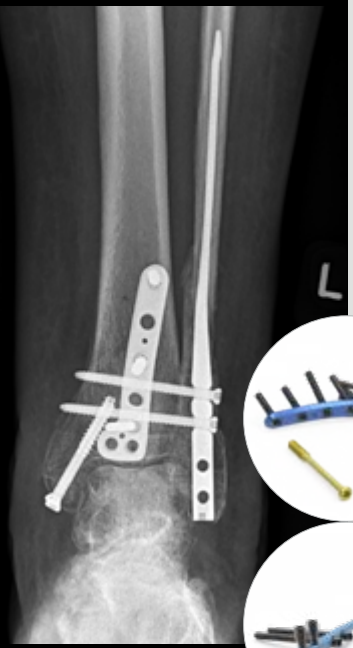
- Tibia button deployment (flipping) using the handle trigger. Fibula button and suture automatically ejects from the handle after deployment
- Straight-pull cinching secures the device
- No need to alternate tensioning each suture limb individually until secured
- Does not require medial incision on the tibia

Knotless Reduction

- Suture Limbs can be cut flush to the fibula button for a no-knot profile

*OsteoMed products

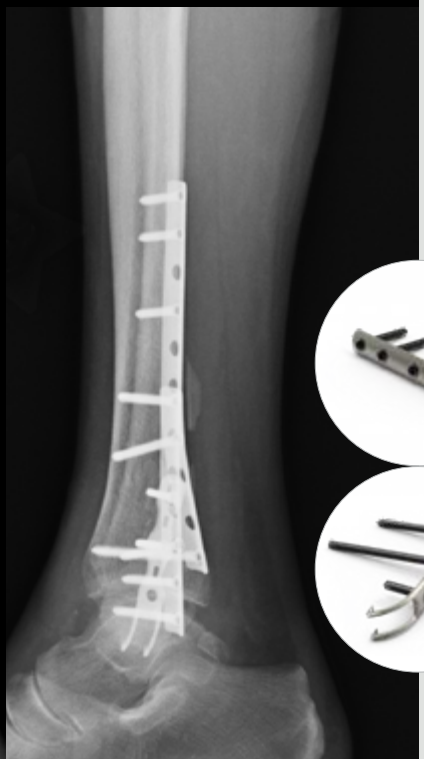
Case Studies



Lateral Malleolar Revision and Trimalleolar Fracture Fixation

Gerard J. Cush, MD

A 56-year-old female who sustained a slip and fall with existing lateral malleolar hardware was treated with the Acumed Ankle Plating System 3 and Fibula Nail 2 System.



Trimalleolar Ankle Fracture Dislocation Treatment Using Plate and Screw Fixation

Kent Ellington, MD

A 70-year-old female with a closed trimalleolar fracture dislocation was treated with the Acumed Ankle Plating System 3 and Small Fragment Base Set.

Providing Stability to the Syndesmosis by Plating the Posterior Malleolus

Jeffrey D. Seybold, MD

A 69-year-old female who sustained an ankle dislocation with associated distal fibula, posterior pilon, and deltoid avulsion fractures was treated successfully with the Acumed Ankle Plating System 3.

Closed Bimalleolar Ankle Fracture Treatment Using Anatomic Rigid Fixation

Kent Ellington, MD

A 53-year-old male with a closed bimalleolar fracture was treated with the Acumed Ankle Plating System 3 and Small Fragment Base Set.

Acumed has the most complete selection of lower extremity fixation and specialty plates on the market.‡

Lower Extremity Fixation: Acumed | OsteoMed vs the Competition

OsteoMed products

Acumed products

Screws

None of our competitors offers a headless screw with Continuously Variable Thread Pitch.

✓ Product in Portfolio ✗ Product Not in Portfolio

		Acumed	OsteoMed	DePuy Synthes	Stryker	Smith & Nephew	Zimmer Biomet	Wright Medical	Arthrex	Medartis	Paragon 28	TriMed	Skeletal Dynamics
Screws	Headless	Continuously Variable Thread Pitch	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
		Variable Pitched Noncontinuous	✗	✗	✗	✗	✗	✓	✗	✓	✓	✗	✗	✓
		Differential Pitch	✗	✓	✓	✓	✓	✗	✓	✗	✓	✓	✓	✗
	Headed	Partial Thread	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
		Full Thread	✓	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗

‡Competitive data on file with Acumed. GEN00-30-D; 2021.

Ankle

None of our competitors offers a Locking Peg Hook Plate and only one offers Anteromedial Tibia Plates and a Medial Anti-glide Plate.

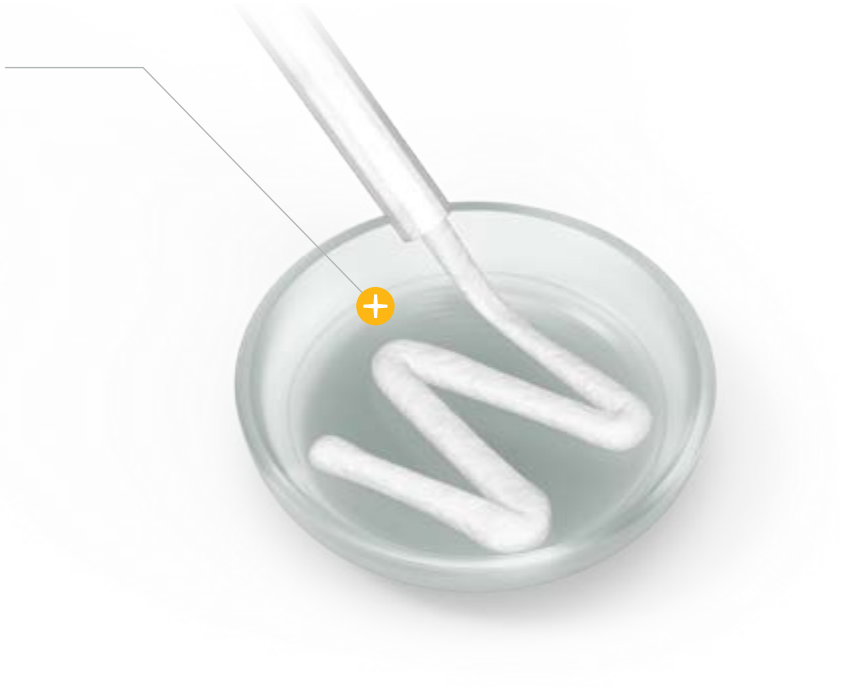
			Acumed	OsteoMed	DePuy Synthes	Stryker	Smith & Nephew	Zimmer Biomet	Wright Medical	Arthrex	Medartis	Paragon 28	TriMed
Ankle	Distal Fibula	Fibula Nail	✓	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗
		Lateral Fibula Plates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Posterolateral Fibula Plates	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✗
		One-third Tubular Plates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Flexible Ankle Syndesmosis Repair	✓	✗	✓	✗	✓	✓	✓	✓	✗	✗	✗
	Distal Tibia	Distal Tibia Hook Plate	✓	✓	✗	✗	✗	✗	✓	✓	✗	✓	✓
		Locking Peg Hook Plate	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
		Posterolateral Tibia Plate	✓	✗	✗	✗	✗	✗	✗	✓	✗	✓	✗
		Posteromedial Tibia Plate	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗
		Medial Tibia Plate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
		Anterior Tibia Plates	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✗
		Anterolateral Tibia Plates	✗	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗
		Anteromedial Tibia Plates	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
		Medial Anti-glide Plate	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
		Fragment Plates	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✗
		Ankle Fusion Plate	✗	✓	✗	✓	✓	✗	✓	✓	✗	✓	✗
		External Fixation	✗	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗

Synthetic Bone Void Fillers

A magnesium-based bone void filler for the orthopaedic marketplace

Magnesium Phosphate Bone Void Filler*

- Magnesium Phosphate based BVF
- Enhanced remodeling – 80% in 26 weeks†
- Moldable or Injectable, delivery and mixing options
- Excellent binding characteristics†
- 4.8 mm Bead Mat Kit available



*OsteoMed product

Magnesium Phosphate Bone Void Filler in the Ankle

†All claims based on critically sized rabbit lateral condyle defect model. It is unknown how results from the rabbit model compare with clinical results in humans. Data on file.

Nonstructural Allograft

Sponge Strips and Cubes*
Strips and cubes with osteoinductive potential are designed to compress and expand in bone voids

A range of sizes designed for optimal fit to help minimize waste

Cancellous Chips*
Small chips of allograft bone are used to fill voids and provide an osteoconductive scaffold for bony ingrowth

*OsteoMed products

DBM Putty*

100% bone derived, no inert carrier.
Multiple sizes in putty and crunch forms

Bone Graft Harvesting System

Bone Graft Harvesting System

The system allows for morselized bone graft removal through a small skin incision. The device attaches to a drill to extract the graft from the bone.

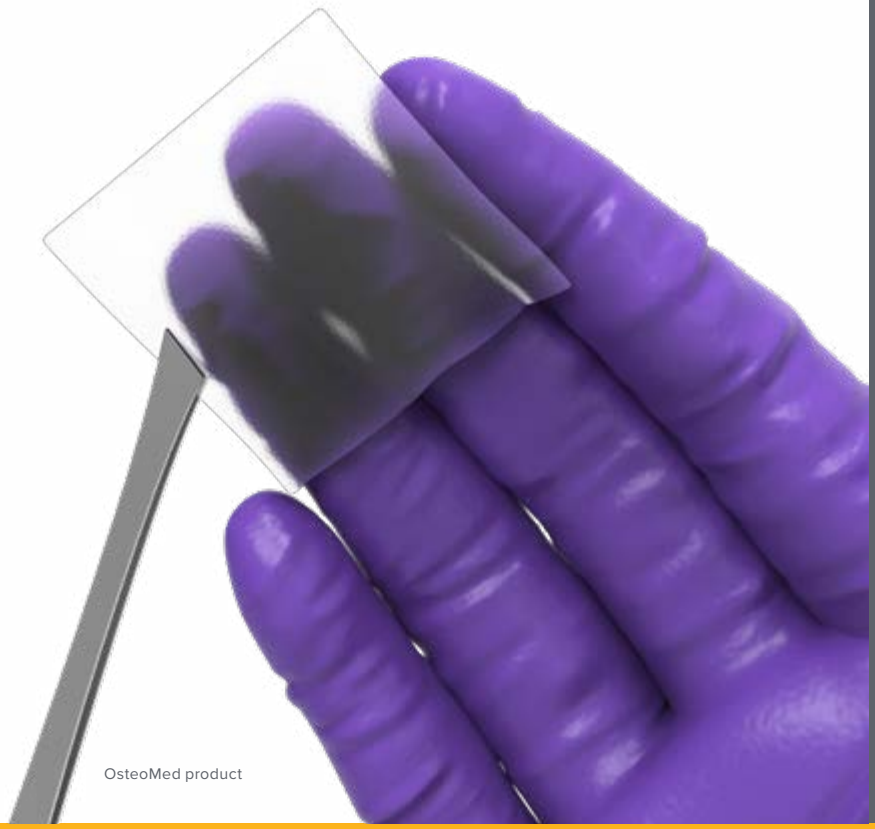
Acumed product

Cutting Drill

Drill tip designed to morselize cancellous bone during harvest

Volume	cc (per pass)
6 mm Bone Graft Drill	0.5 cc
7 mm Bone Graft Drill	0.6 cc
8 mm Bone Graft Drill	0.9 cc
10 mm Bone Graft Drill	1.6 cc
12 mm Bone Graft Drill	2.5 cc

Amniotic Membranes



OsteoMed product

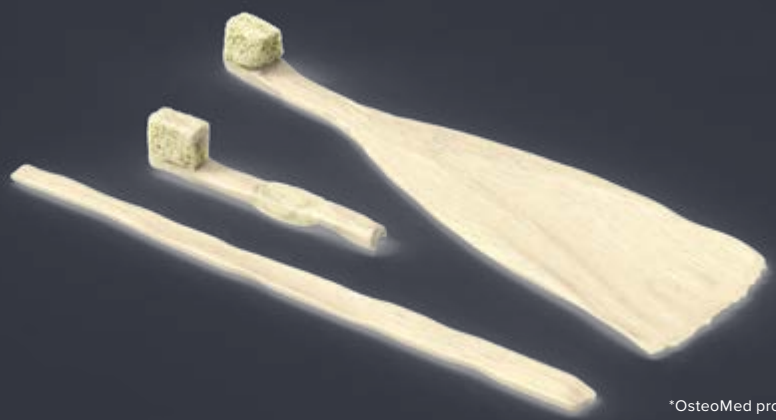
Amniotic Membranes*

- Used as a covering for reconstructive procedures
- Offer protection from surrounding environment

Allograft Soft Tissue*

Tendons

- Stringent in-facility donor screening process & validated medical history
- Achilles (with or w/o bone block)
- Gracilis/Semitendinosis
- Anterior/Posterior Tibialis
- Peroneus Longus Tendon
- BTB



*OsteoMed products

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References

1. Lee YS, Hsu TL, Huang CR, Chen SH. Lateral fixation of AO type-B2 ankle fractures: the Acutrak Plus compression screw technique. *Int Orthop.* 2010;34(6):903-907

*OsteoMed Products