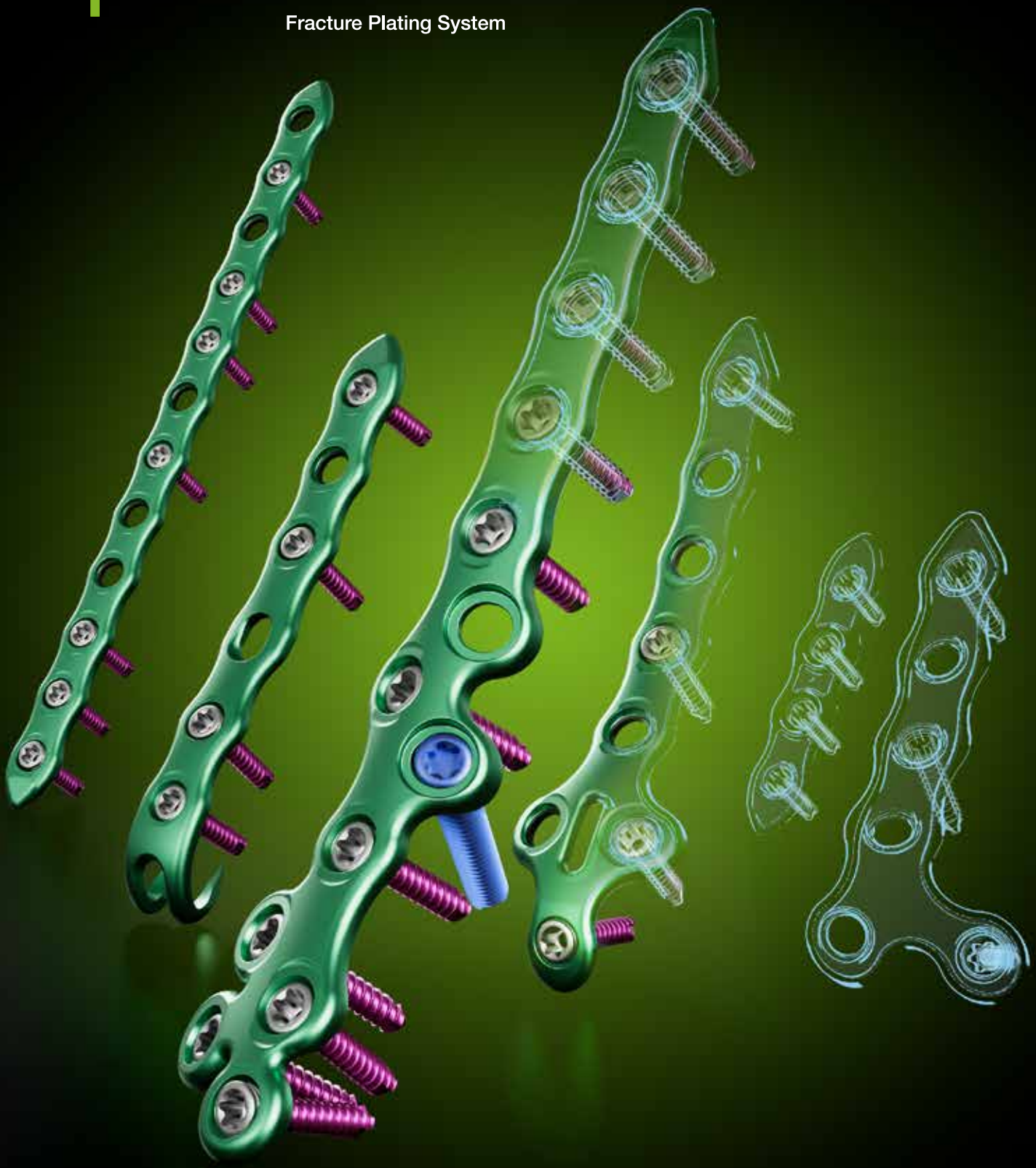
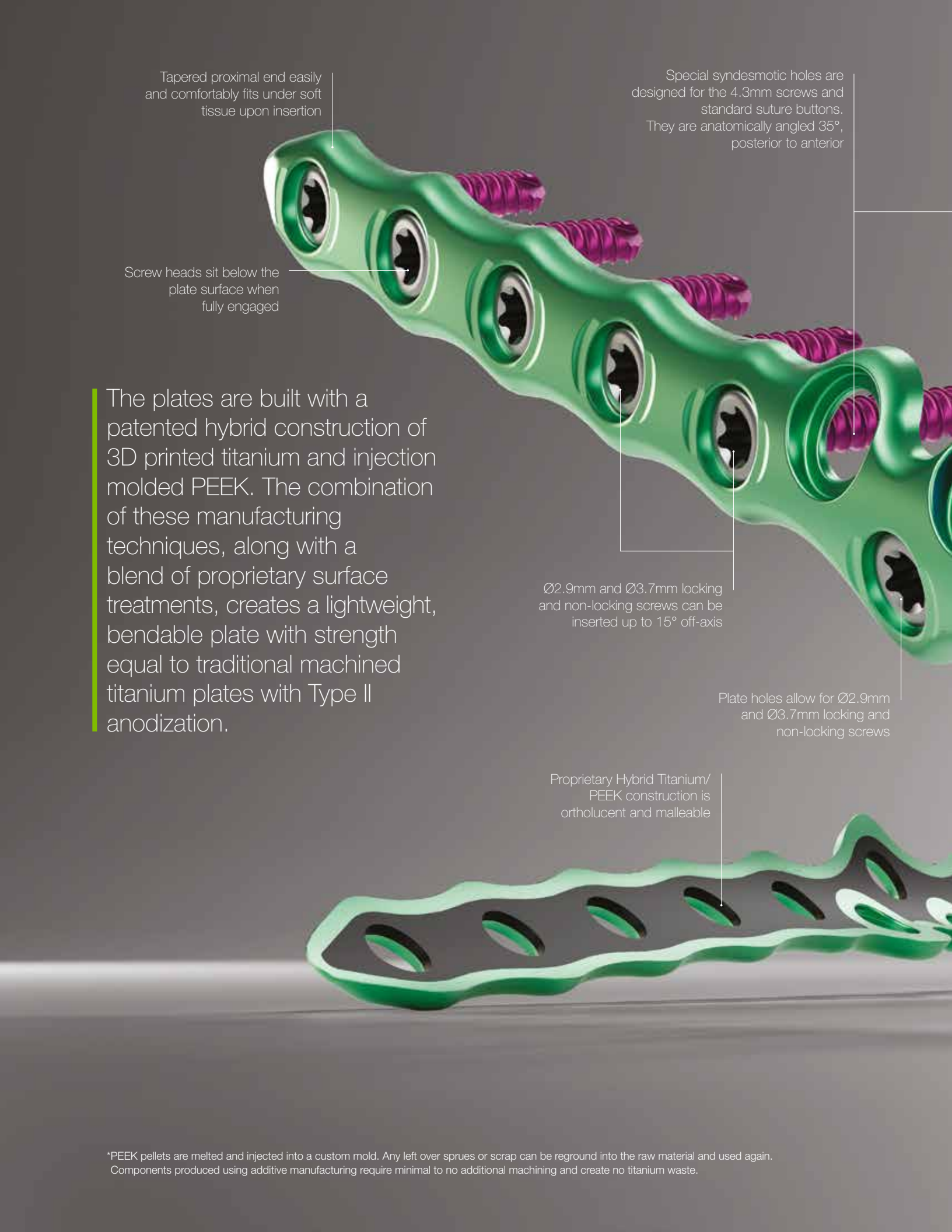
ApolloAnkle™

Fracture Plating System



Seeing is Believing

GLW medical



The plates are built with a patented hybrid construction of 3D printed titanium and injection molded PEEK. The combination of these manufacturing techniques, along with a blend of proprietary surface treatments, creates a lightweight, bendable plate with strength equal to traditional machined titanium plates with Type II anodization.

*PEEK pellets are melted and injected into a custom mold. Any left over sprues or scrap can be reground into the raw material and used again. Components produced using additive manufacturing require minimal to no additional machining and create no titanium waste.

Hybrid Materials and Manufacturing

The plates are not only visually green, but also environmentally green. Produced using a zero waste process, these plates are made through a proprietary additive manufacturing (3D printing) and injection molding process.

Additive manufacturing offers the capability to mirror complex anatomy and create very smooth contours that minimize soft tissue irritation. This technology creates the shell structure of the plate which offers the thinnest section of titanium on the market, giving Apollo its radiolucent properties.*

Low-profile, contoured plate offers strength while reducing soft tissue irritation

Distal fibula screw cluster allows for multiple points of fixation

ZERO WASTE MANUFACTURING

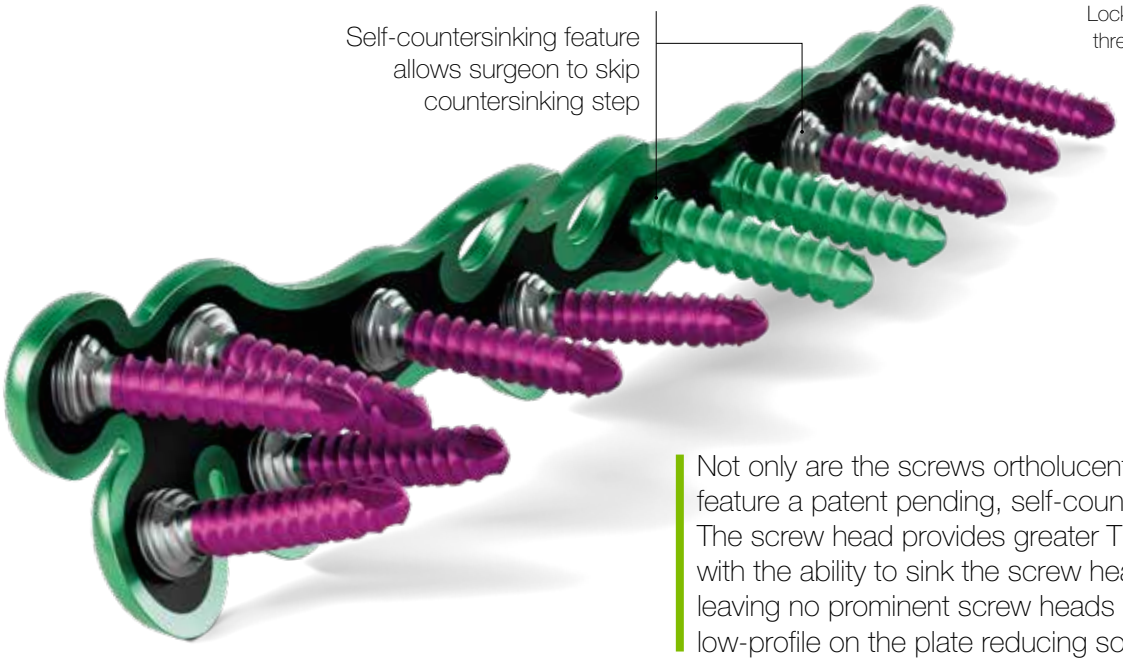
Screw Technology

The unique combination of additive manufactured titanium and injection molded PEEK leads to the patented screw locking technology of **PEEKLOC™**.

The PEEK construct allows for a quick thread engagement, and smooth tactile feel, while the proprietary hidden titanium structure enforces the solid locking strength. PEEKLOC™ technology creates the elastic locking friction and greatly reduces the risk of cold-welding during screw insertion.

Hybrid Cortical / Cancellous Screw System
The optimized thread design and slightly larger OD provide greater pull out strength in both bone types. So, only one screw type needed, simplifying the surgery.

Locking threads are designed to form threads into the Apollo plates, giving superior cantilever strength.



All heads have self-countersinking cutting flutes.

Not only are the screws ortholucent, but they feature a patent pending, self-countersinking screw head. The screw head provides greater T15 driver engagement, with the ability to sink the screw head deeper into the bone, leaving no prominent screw heads resulting in a very low-profile on the plate reducing soft tissue irritation.

PEEKLOC™ and Self-countersinking Screws

Below surface insertion of screw

T15 Hexalobe socket

2mm Driver depth

Patented PEEKLOC™ system creates elastic friction when locking screw in place

Self-countersinking features add more depth below the plate for a flush mounted screw with deeper driver engagement

PEEKLOC™ provides a quick thread engagement and smooth tactile feel when locking screw in place

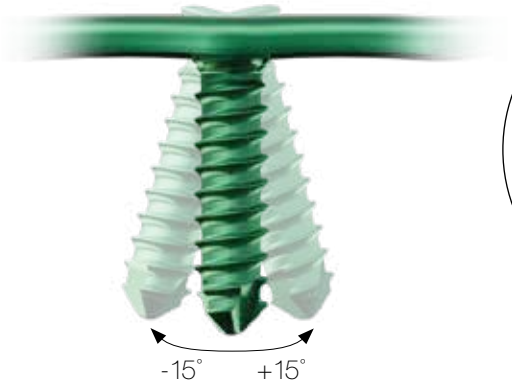
PEEKLOC™ creates a strong interface between the screw and plate, with better cantilever strength and accepting higher torque strength

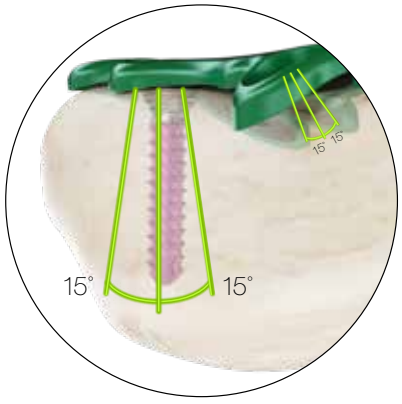
PEEKLOC™ minimizes titanium to titanium interface therefore reducing cold-welding

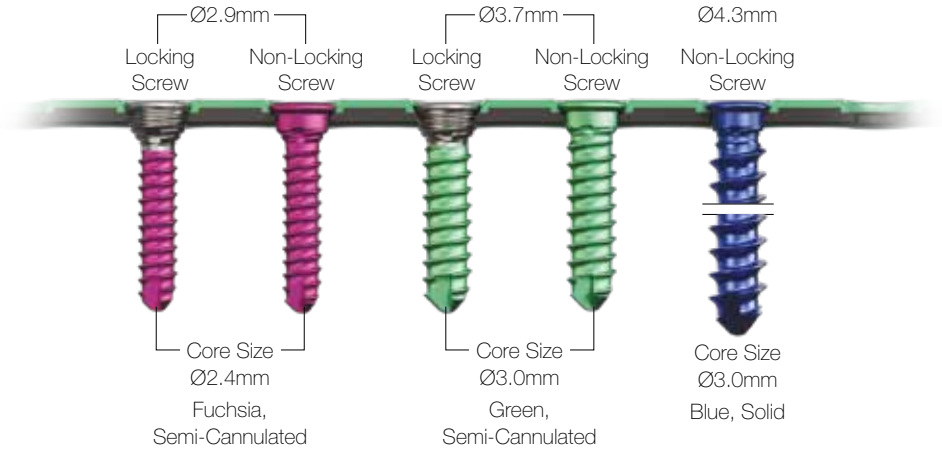
Partially-cannulated for orthoLucency

Wider outside thread diameter gives a hybrid cortical and cancellous screw design

All Apollo locking and non-locking screws can be placed up to 15° off-axis.







Ortholu

This thin cross-sectional structure of titanium gives the plates “ortholucency”, a unique advantage over traditional metal implants where the radiolucent properties drastically improve the visualization of bones and joint spaces. Intraoperatively, surgeons benefit from improved fracture and joint reduction imaging, while postoperatively they can better assess if bone is healing properly, potentially leading to earlier weight bearing decisions.

Apollo Ankle Fracture Plating System

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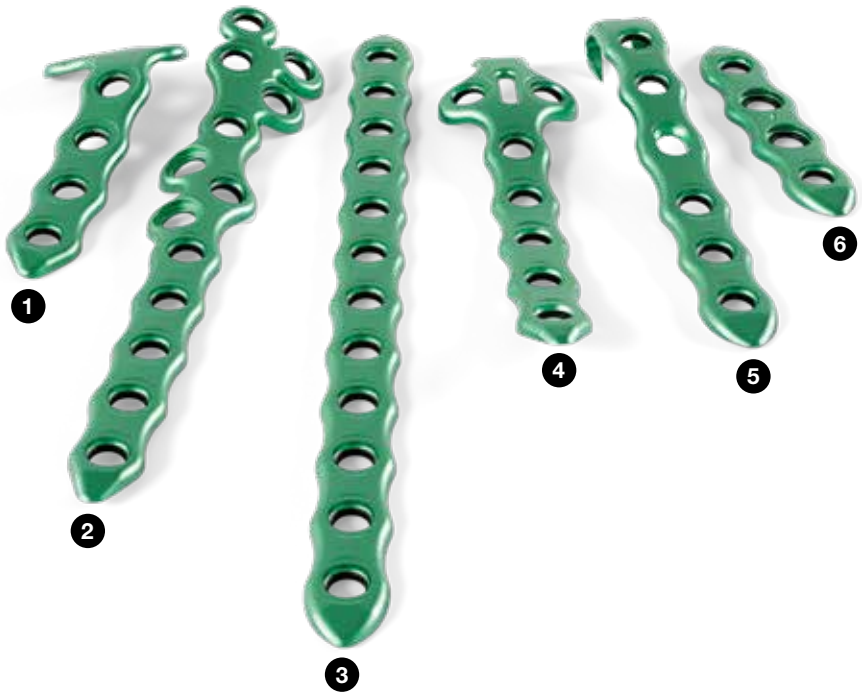
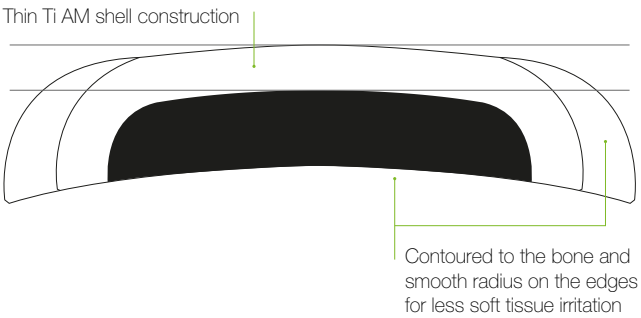




1. Posterior Tibial Plate

- Left/Right anatomical designs.
- Distal holes angled away from tibiotalar joint.

2. Fibular Plate

- Syndesmotic holes positioned to aim 35º, posterior to anterior.
- Syndesmotic holes designed to accept typical suture buttons.
- Multiple points of fixation in the distal cluster.

3. One-third Tubular Plate

- Versatile plate with hole choices from 4 to 12 holes.

4. Medial Malleolar Plate

- Extra thin distal portion to minimize soft tissue irritation.

5. Hook Plate

- Versatile design for both lateral and medial malleoli.
- Compression slot with 2mm compressive action.

6. Syndesmotic Plate

- 2 and 4 hole designs.
- Syndesmotic hole designed for typical suture button.

Sterile, Disposable Instrument Kits

Optimize your work flow within the surgical procedure.

Single-use Convenience Kit, including two starter screws

T15 Driver	2
Drill Ø3.7mm / Ø4.3mm – Core	1
Drill Ø2.9mm – Core	1
Drill 3.7 – Lag	1
Olive Wire Assembly	3
Ratcheting Handle, Single Use	1
Drill Guide, Polyaxial/Straight	1
Countersink/Depth Gauge,	1
K-Wires, Ø1.6mm x 150mm	2
Plate Benders	2
Ø2.9mm x 12mm Non-Locking Screw	1
Ø3.7mm x 14mm Non-Locking Screw	1

Lag Drill Guide Kits, 2.9, 3.7 and 4.3

Single-use Hook Plate Kit

Single-use Radiopaque Trials

Optional Reduction Instruments*

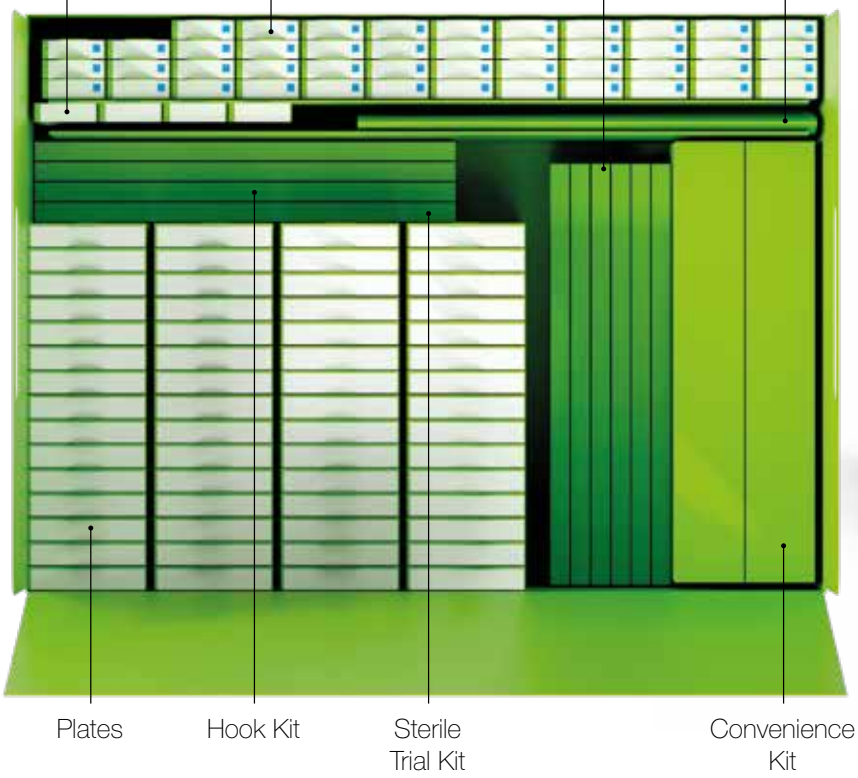
*Reusable instruments and sterilization tray.

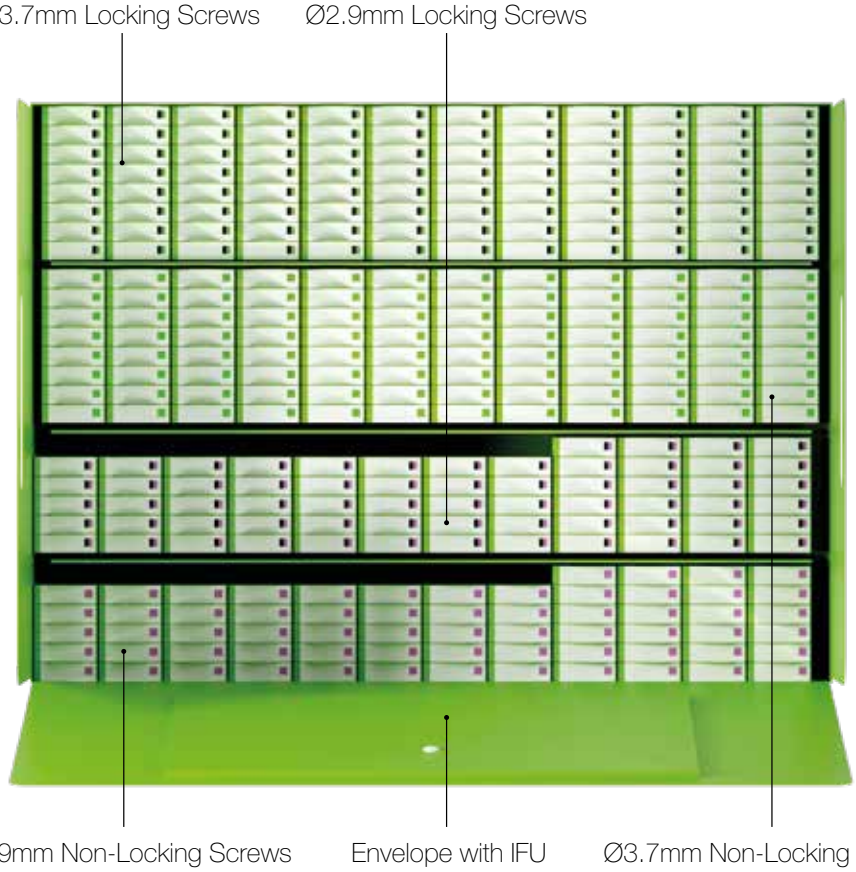
Portfolio Information

Plate	Length	Shaft Width	Head Width	Hole Count	Orientation
Lateral Fibula	67 89 111	9.6	18	9 11 13	Left / Right
One-Third Tubular	51 62 73 84 95 117 139	9.6	N/A	4 5 6 7 8 10 12	Universal
Hook	48 59 70 81	10	N/A	3 4 5 6	Universal
Medial Malleolar	60 71 83	9.6	21	6 7 8	Universal
Posterior Tibia	48 59	10.6	23	5 6	Left/Right
Syndesmosis	29 51	10.8	N/A	2 4	Universal
Material	Ti6Al4V / PEEK				

Ø Size range	2.9mm	3.7mm	4.3mm
Type	Locking and Non-Locking		Non-Locking
Length	8-40mm	10–60mm	25-70mm
Material	Ti6Al4V		
Color	Fuchsia	Green	Blue

Screw and Instrument Caddies





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Scan for more
product information

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a surgeon. Rx only. Implants and Instrument kits for treatment of temporary and permanent disabled individuals (patients).

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www.glwmed.com

Patents: www.glwmed.com/patents/

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