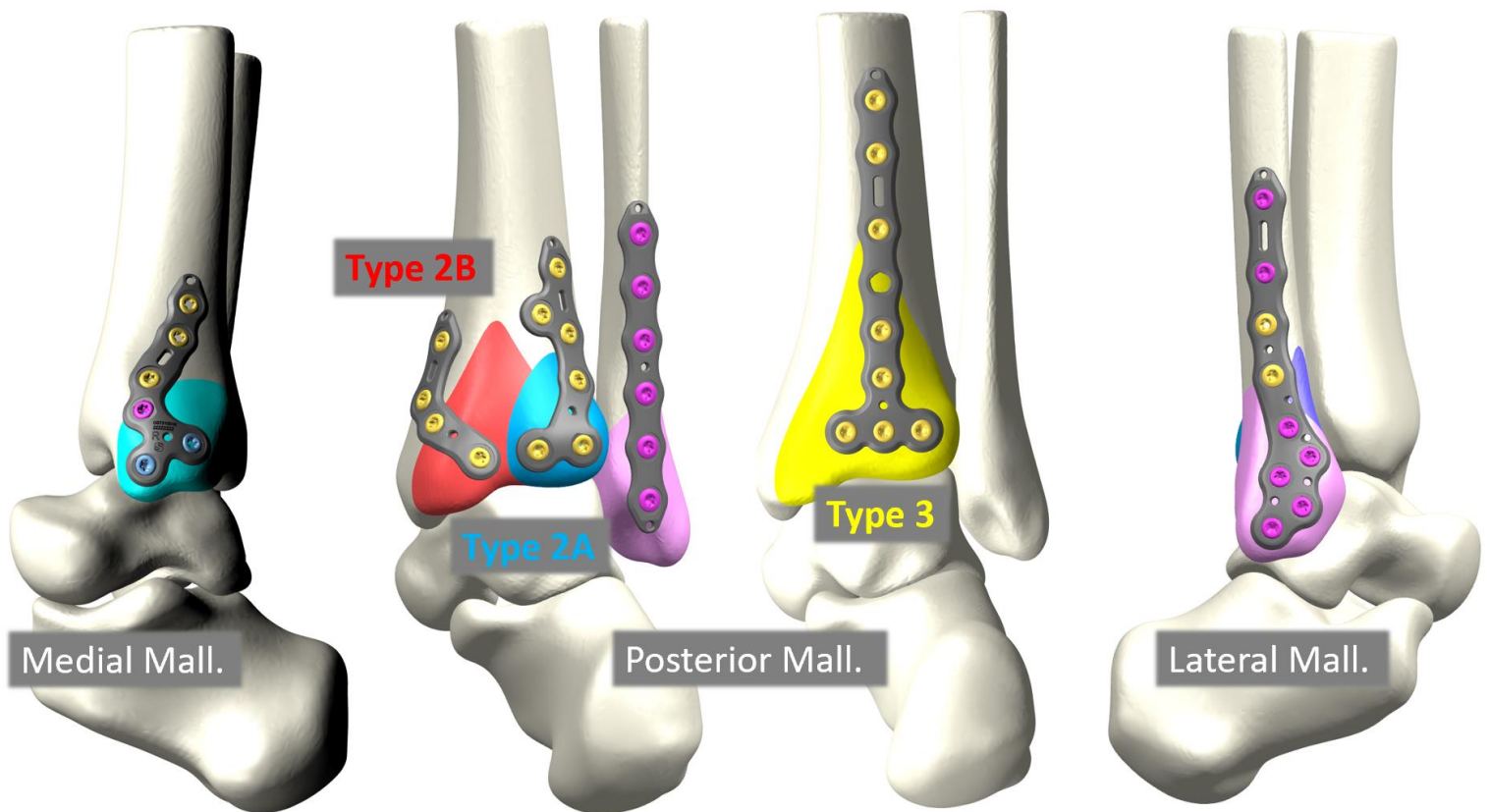


# VOLITION™

PLATING SYSTEM

Ankle Fracture Plates

featuring V-Lock™ Technology



THE EVIDENCE-BASED ANKLE FRX SOLUTION

OrthoSolutions  
Group

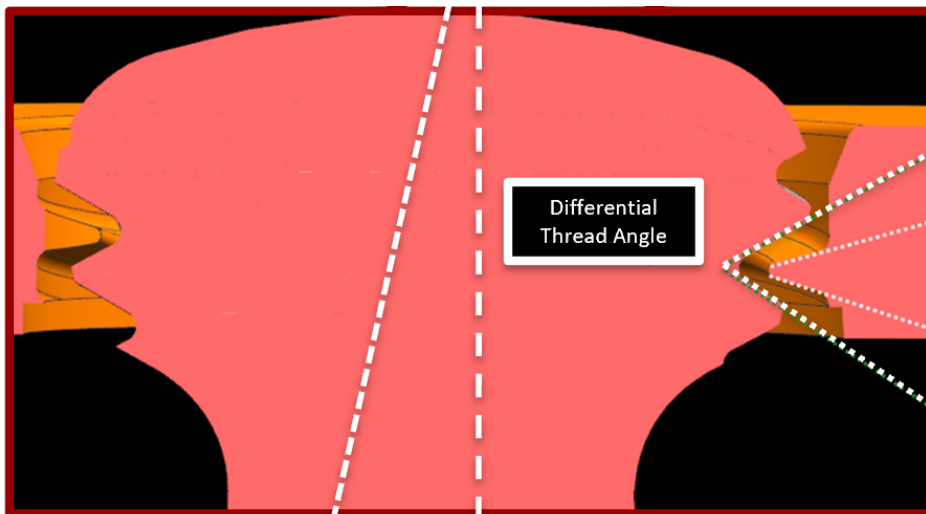


## Advantages of VOLITION™ Plating:

- Type II anodized plates **increases fatigue strength** by roughly 25% compared to Type III, thereby **reducing risk of device fracture**
- Type II anodize plates produce anti-galling properties + Type III anodize screws result in **minimizing cold-welding for easier implant removal**, if required
- **Optimization of plate strength** by not needing to utilize softer plate material/alloy which allows screws to plastically deform/tap into it
- **Preservation of debris-free wound site** as no implementation of screw coating. Some coatings, such as a TiN coat, enable metal-tapping of the plate, and can flake off over time leaving debris
- Utilization of V-Lock™ Technology **minimizes cross-threading** between an off-axis locking screw and plate thereby **increasing overall construct strength**
- Generous fillets creating soft edges and transitions on the plates along with ultra-low profile nature result in **minimizing the likelihood of soft tissue irritation**

## Advantages of V-Lock™ Technology:

- Patent-pending plate/screw interface allows smooth, **easy locking** on or off-axis
- Proprietary technology (PCT/US19/060,895) incorporates thread angle delta at the interface, allowing variable axis locking with **minimal cross-threading**
- **Minimizes pushing of the screw** away from desired trajectory and towards perpendicular upon insertion
- **Decreased propensity to strip** plate/screw interface due to minimal cross-threading



**V-Lock™**  
Technology

## VOLITION™ Screw Features:

- Ø2.7, Ø3.5 & Ø4.0mm screw diameters offered can be used in non-lock, fixed angle lock and variable angle locking (30° conical capability) modalities
- Self-tapping, yet blunt tip **minimizes potential soft tissue irritation**
- NL screw design of cancellous-type OD/ID ratio with hybrid-type pitch **producing an increased purchase**
- Cheater's lag/bite upon insertion satiates tactile feedback; tapered ID in the neck **significantly increases bending strength**
- Ø4.0mm cannulated screws housed within set for additional fixation needs

## VOLITION™ Screws



## Advantages of VOLITION™ Ankle FRX:

- Mason & Molloy published their pathomechanistic posterior malleolar fracture classification based on analysis of 120+ CT scans [FAI, Mason et al, 2017]
- This classification led to a blueprint and algorithm, such that different ankle fracture patterns dictated distinct treatment strategies
- Specifically, three distinct modalities of injury were identified: avulsion of the posterior aspect of the syndesmosis, rotational pilon & an axial loading of pilon. These mechanisms correlated with the distinct fracture patterns identified: Type 1, 2 (A & B) & 3 respectively
- **Proprietary, evidence-based plate designs** have been developed based on the M&M classification and fracture morphology in conjunction with extensive analysis of 80+ healthy CT's
- **Improved clinical outcomes** upon implementation of the M&M treatment algorithm were observed, with an average 19-point increase on the Olerud-Molander Ankle Score, across all fracture types [JBJS Open, Mason et al, 2019]

## VOLITION™ Ankle FRX Plate Features:

- Anatomic lateral plate
  - Patent-pending design (US 29/719,827)
  - Incorporation of fibular twist leading to lower profile, **reduced patient irritation** and **easier passing of the syndesmotic screw into optimum position**
  - Specific suture passing holes allowing reduction and stabilization of the Wagstaff fragment/AITFL to the plate
- Anatomic medial malleolar plate
  - Patent-pending design (US29/719,840)
  - Specifically designed to allow buttress and fixation of medial wall blow out while still addressing anterior collicular fracture fragments
- Anatomic posterior plates
  - Patent-pending designs (US 29/719,829 & US 29/719,832)
  - Unique shapes specifically correlate to M&M algorithm (fracture patterns and approaches) thereby **minimizing required exposure**



# VOLITION™

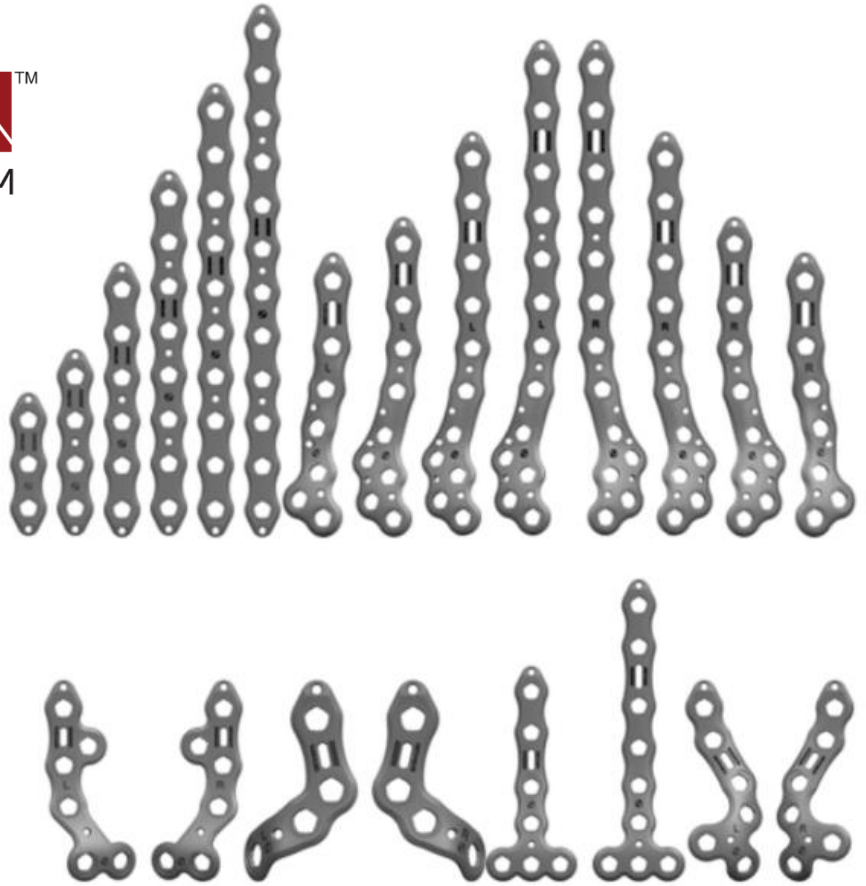
PLATING SYSTEM

## Ankle Fracture Plates

featuring

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Consult  
instructions  
for use

**CE**

2797<sup>2</sup>



Surgeon must be  
fully trained in the  
surgical technique

<sup>2</sup> CE marking and the notified body number is applied per part number and  
appears on the device packaging, or the device if applicable.