Simply advanced

The evolution of osteosynthesis continues with EVOS LARGE and PERIPROSTHETIC, a unified large fragment and periprosthetic plating system.

Smith+Nephew

EVOS◊ LARGE & PERIPROSTHETIC
Plating System

We know periprosthetic fracture surgery is challenging and ever-changing.

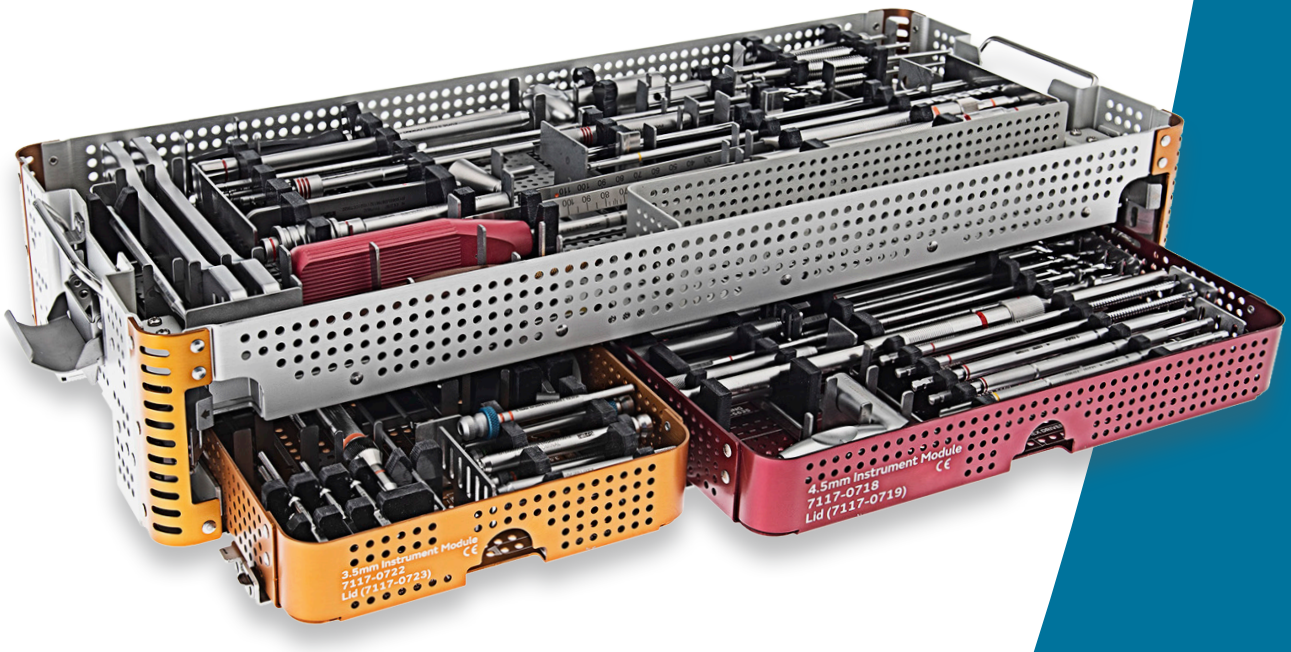
You require the ability to adapt in the OR.

Does your implant system give you the flexibility you need?

Are you facing challenges like:

- Incomplete implant systems
- Limited fixation options
- Outdated technology
- Modular systems which add complexity to the procedure

The EVOS◊ LARGE and PERIPROSTHETIC Plating System has evolved with your skillset to meet the demands and expectations of periprosthetic and complex fracture care.

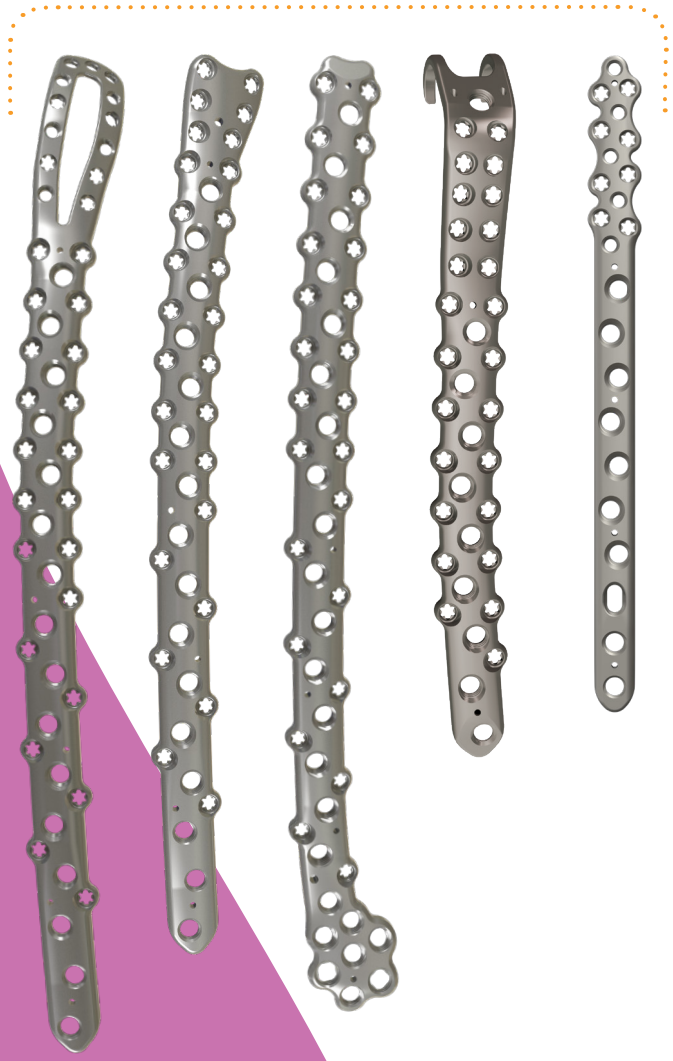


From reduction to fixation, this system meets the current needs of large fragment and periprosthetic surgery. Designed to give you stability where you need it and flexibility where you want it.

A simplified approach

EVOS◊ LARGE Plating system

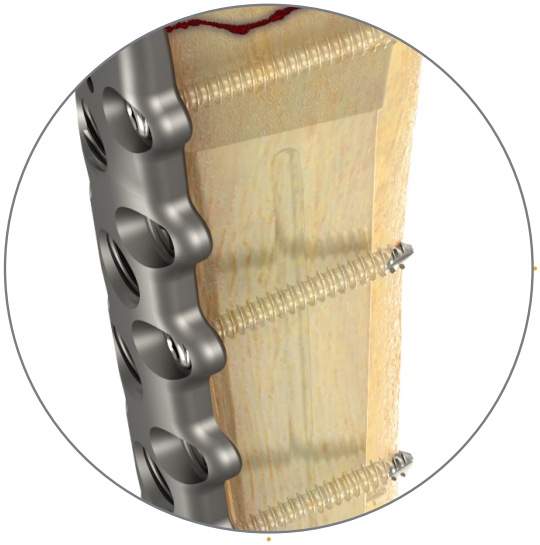
Periprosthetic



Anatomic Large Fragment

Straight

Periprosthetic design features

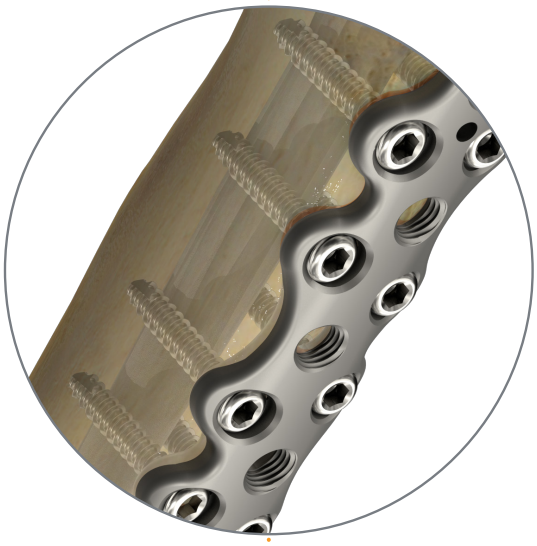


Avoid Plate stacking and outriggers

Peripheral Screw Holes

3.5mm Variable Angle screws holes placed peripherally

Designed to avoid prostheses and achieve bi-cortical fixation

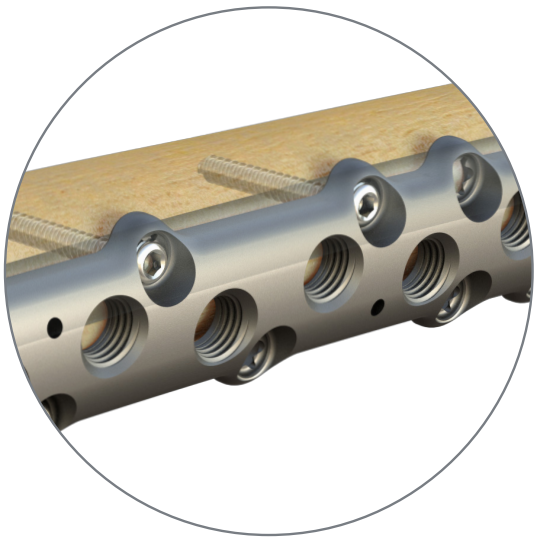


Femur Spanning

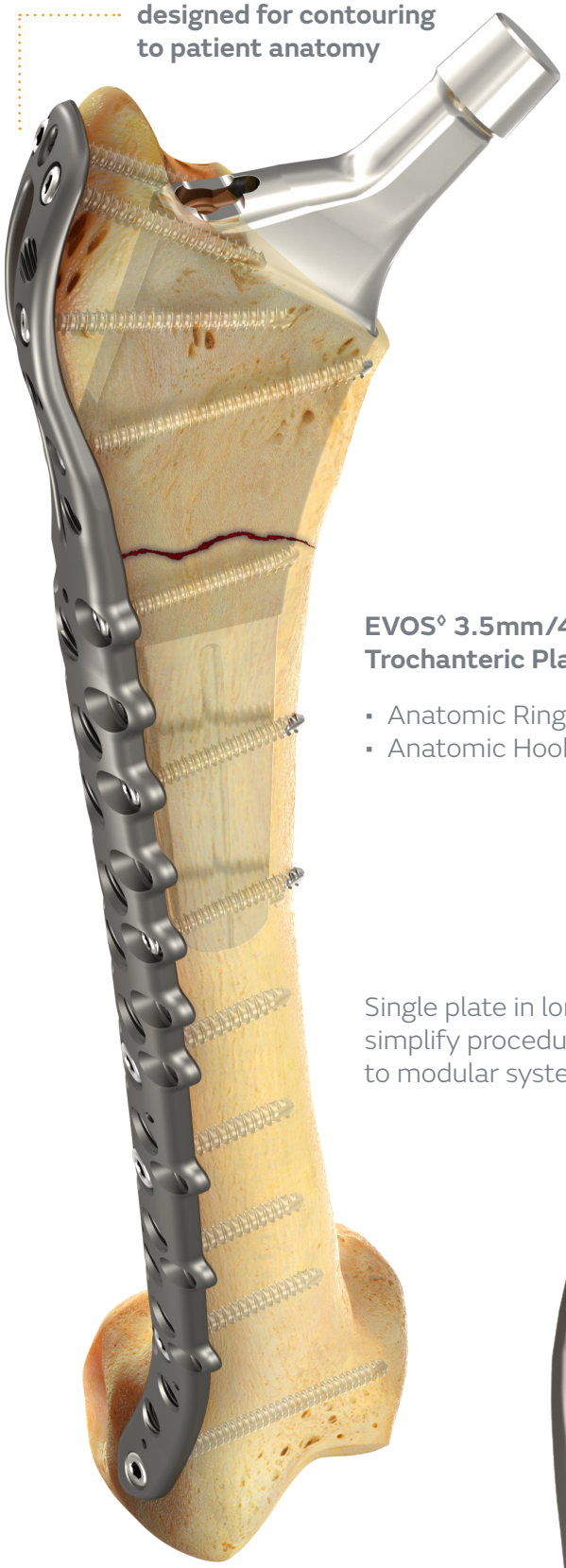
Long length options for femoral spanning

Long plates taper to ease contouring

(Top) Plate after clinical contouring
(Bottom) Plate with taper (as packaged)



Thin ring aspect is designed for contouring to patient anatomy



Ring shape designed to minimize tendon damage

EVOS◊ 3.5mm/4.5mm Trochanteric Plate options:

- Anatomic Ring Plate
- Anatomic Hook Plate

3.5mm locking and VA locking in ring portion

Proximal Fixation and ring shape has been shown to counter abductor forces and minimize the risk of trochanteric escape.*[1]

Single plate in long options to simplify procedure compared to modular systems

3.5mm variable angle proximal holes allow for screw placement around hip prosthesis[2]

Periprosthetic Trochanteric Plates

*Demonstrated in a sawbone study

Periprosthetic Femur – Proximal

Length and anatomic contours to cover the femur. No need for plate stacking or outriggers to achieve fixation

Proximal screw placement to avoid implants

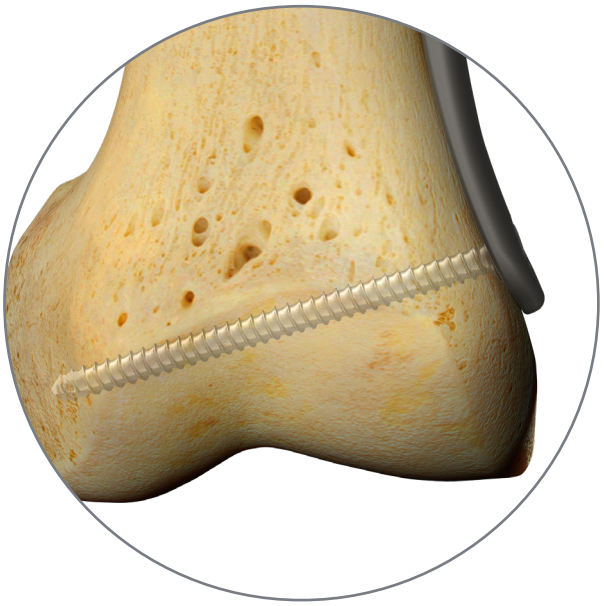
VA peripheral screw configuration is designed to allow for stability and ability to avoid prostheses including central stems, boxes, and nails

Peripheral Holes

Variable angle locking

No plate stacking or outriggers to achieve fixation

Plate thins distally to faciliitate spanning the entire femur if necessary in cases of poor bone quality

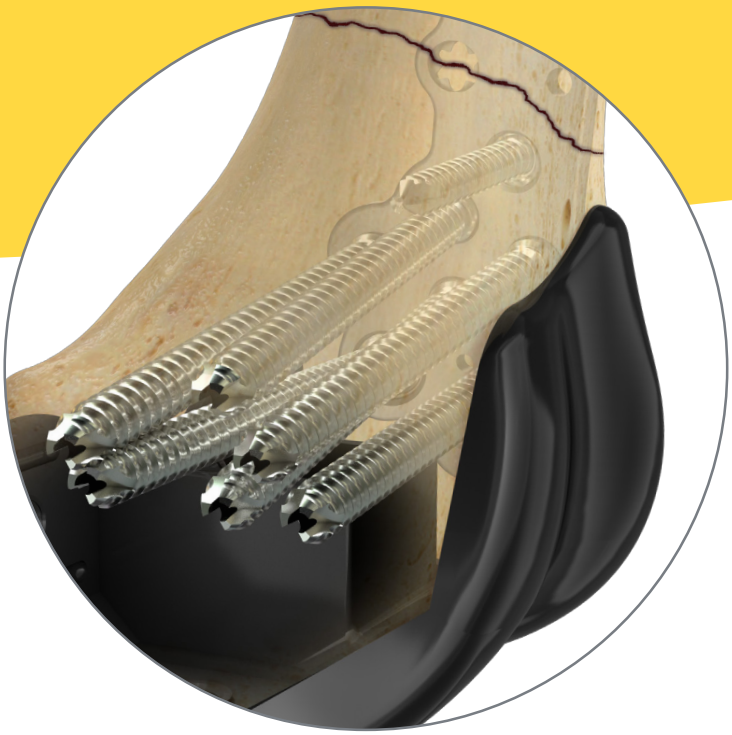


Periprosthetic Femur – Distal

Tapered proximal end to allow for easy contour to the troch region

Variable angle peripheral screw configuration is designed to allow for optimized stability and ability to avoid implants

Size offerings for total femur plating



Distal screw cluster with variable angle options is designed to allow fixation around common implants[3]

EVOS◊ Straight plate families

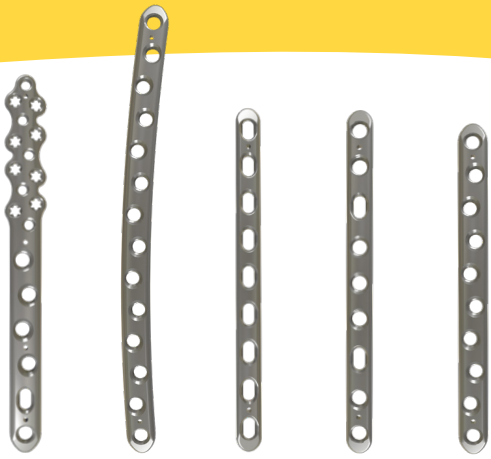
Utility Plate

3.5mm Fixed angle and variable angle options to avoid implants[4,5]

4.5mm Locking Compression Plate shaft

3.5mm variable angle screw cluster allow for short segment fixation[4,5]

Plate thins at end for easy contouring[4]



Plates in straight plate family

4.5mm Locking Compression

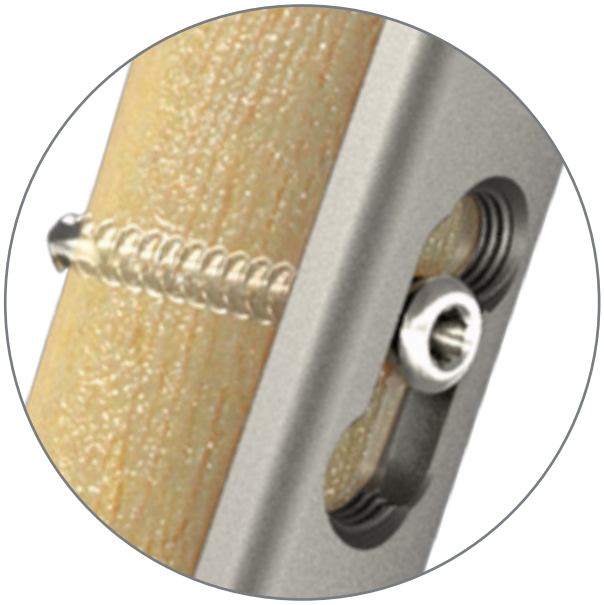
4.5mm Narrow Locking Compression

4.5mm Non-Locking Compression

4.5mm Anatomical Bow

Periprosthetic Utility Plate

Distal Femur



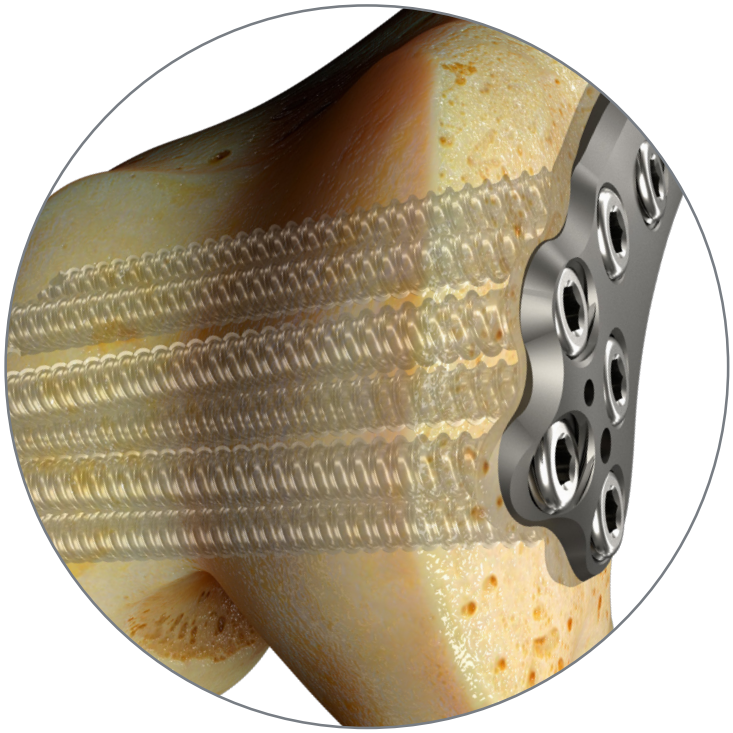
Axial length adjustment slot – 18mm

Allows for length adjustment and keeps plate centered during reduction[3]

Metaphyseal screw configuration

Fixed angle locking to maximize construct strength

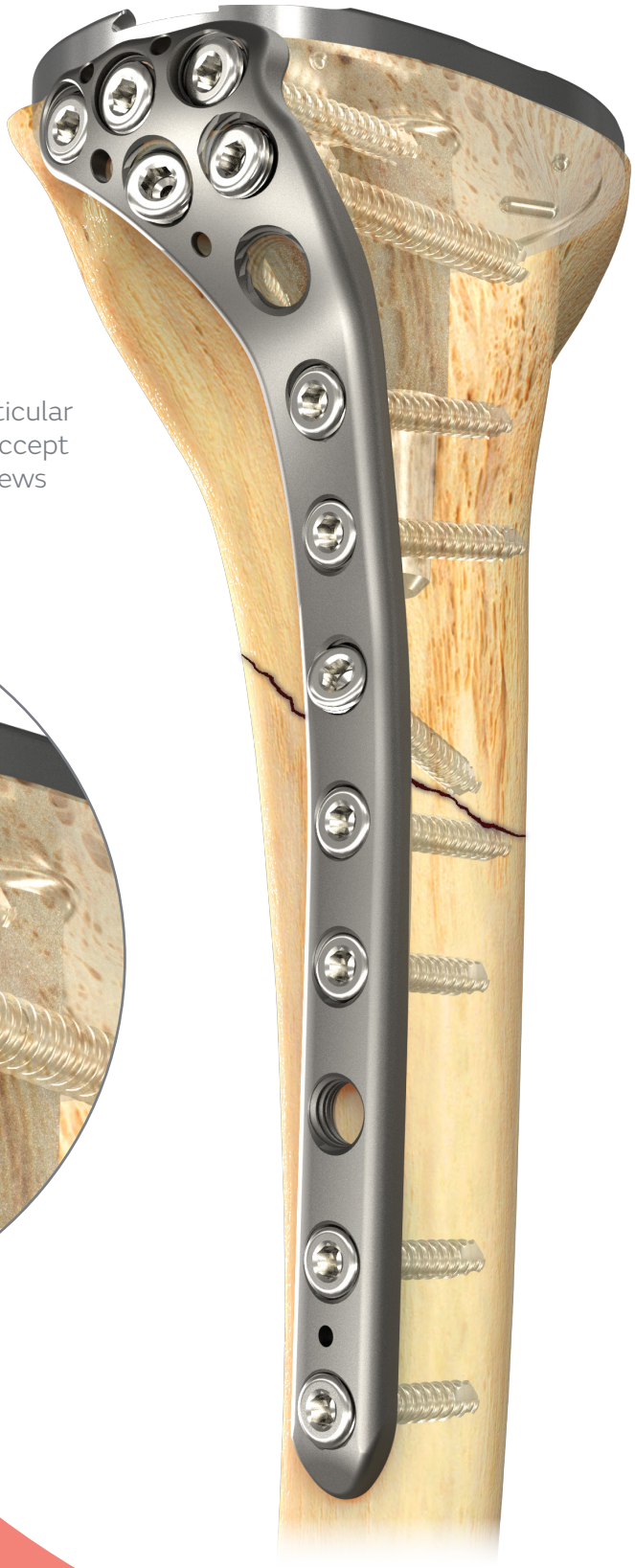
Screw trajectories aim to anteromedial aspect of distal femur



Low profile metaphyseal chamfer

Designed to minimize irritation of the soft tissue envelope around the knee

Proximal Tibia

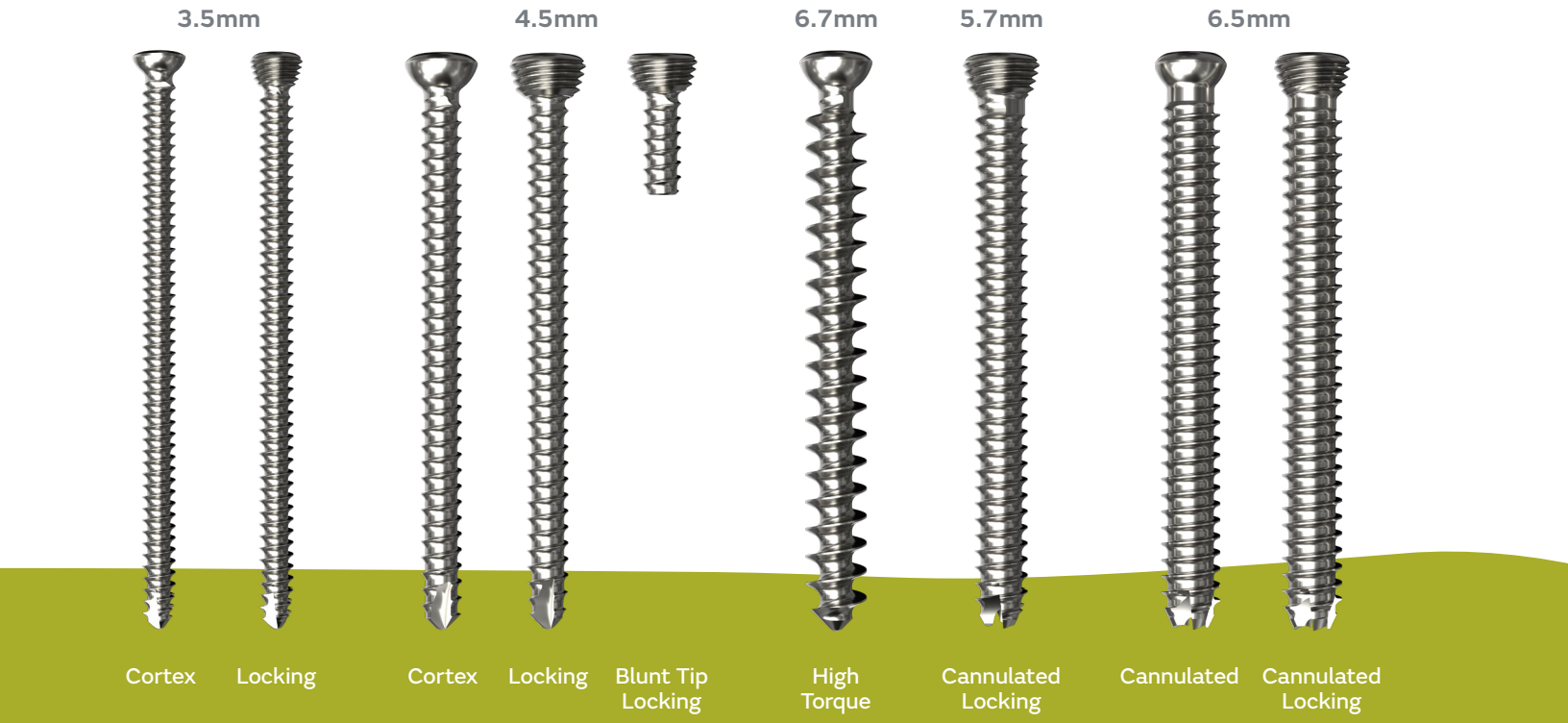


Anatomic 4.5mm Tibia Plate

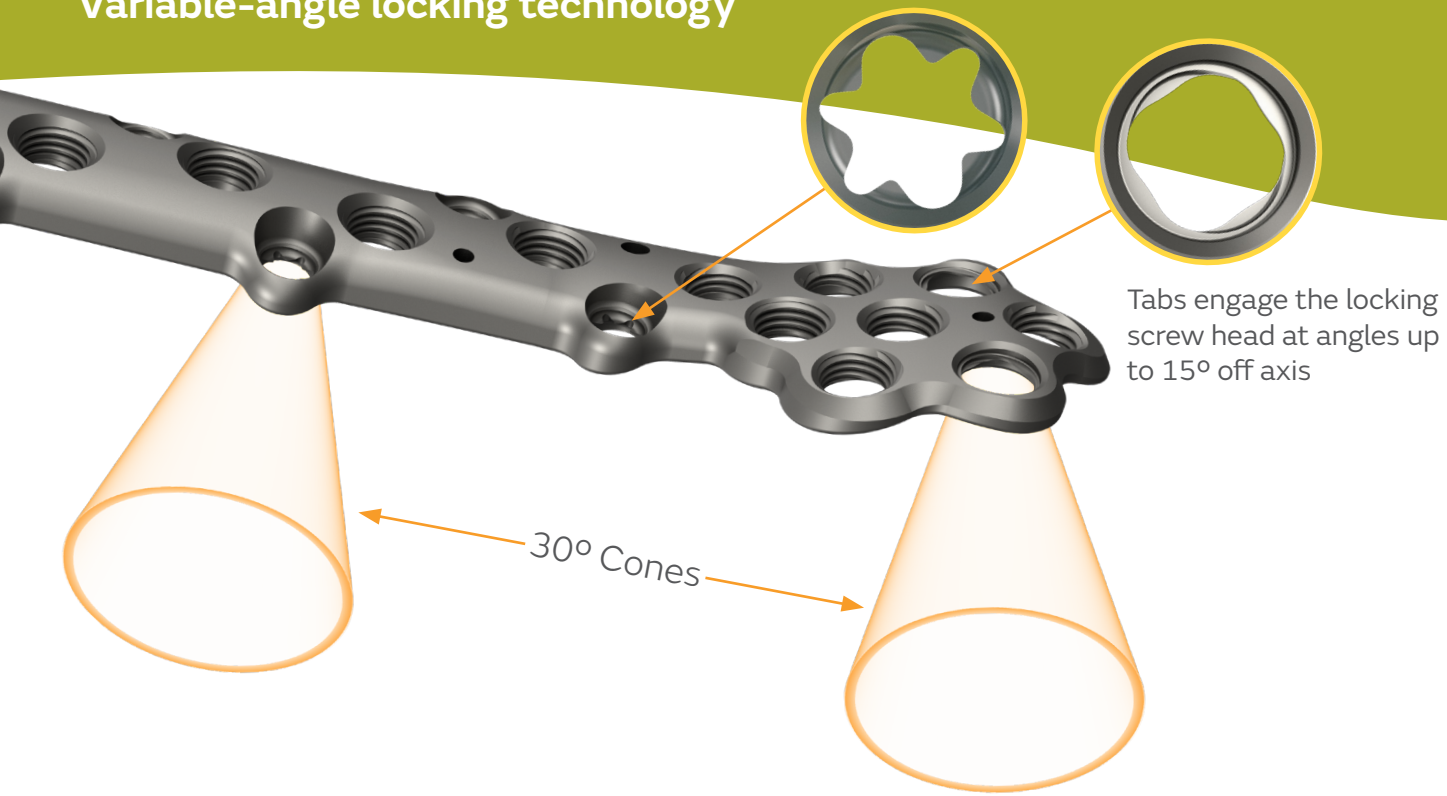
Top row of all variable angle screws to rebuild articular surface[5,6] and avoid tibia keel. VA locking holes accept both 4.5mm Screws and 5.7mm Cannulated Screws

One locking screw

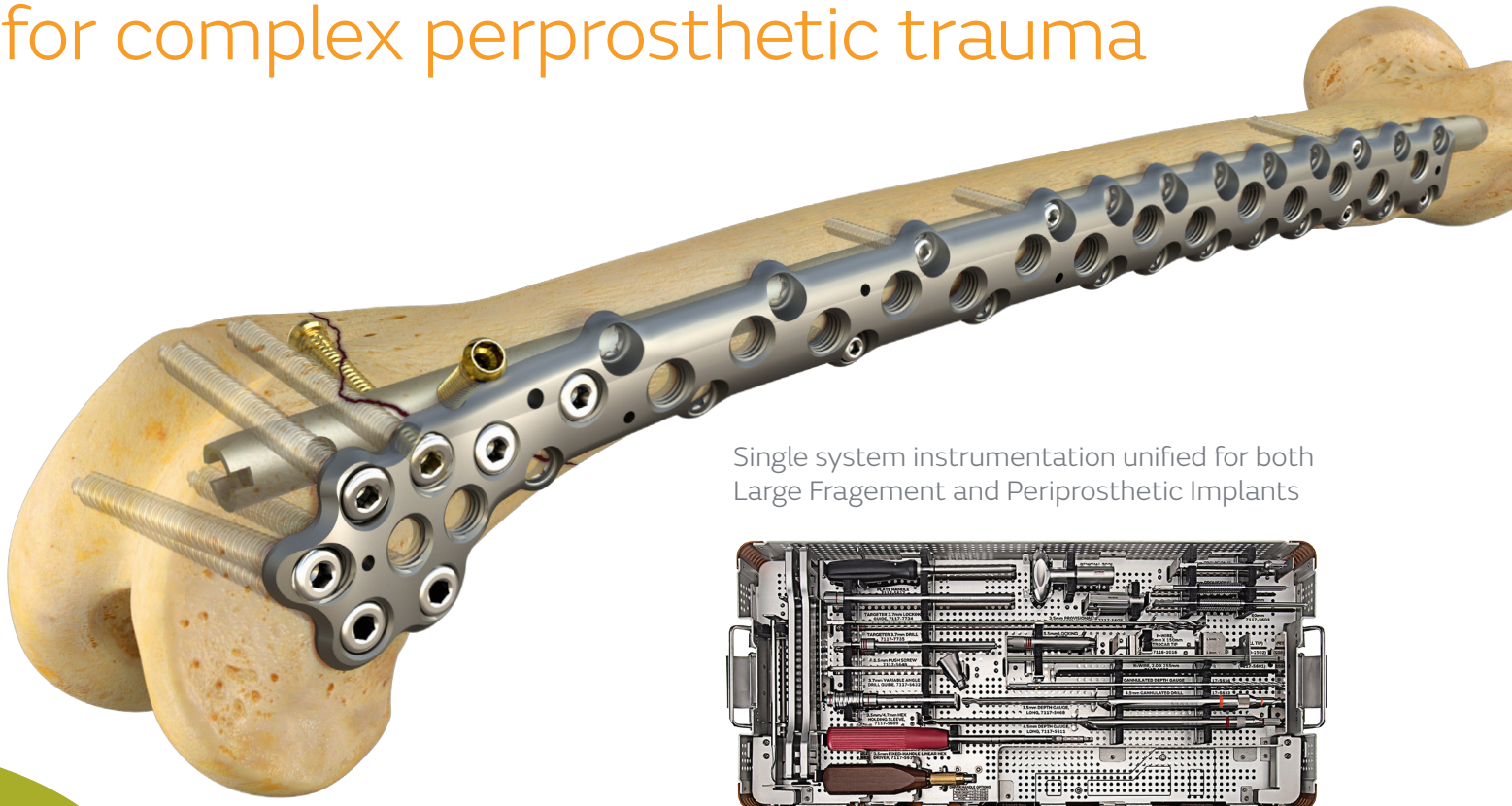
We designed one screw for threaded locking and variable-angle locking.



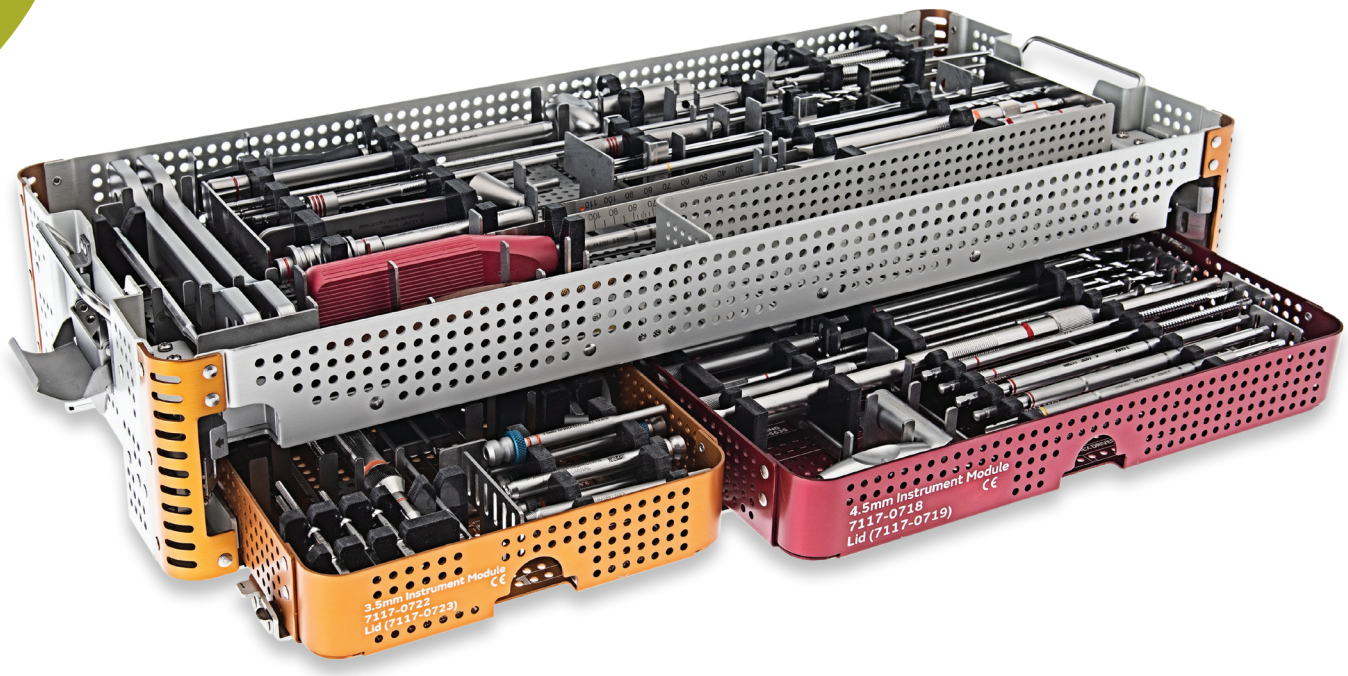
Variable-angle locking technology



Simplicity of instrumentation
for complex perprosthetic trauma



Single system instrumentation unified for both Large Fragement and Periprosthetic Implants



Targeters

Percutaneous targeting of
Peripherical VA locking screw
options to avoid implants

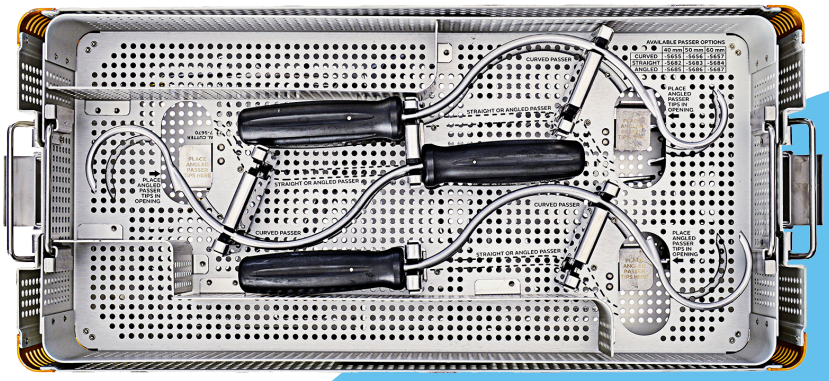
Plates compatible with percutaneous targeters:

Proximal Femur Targeter:
- Proximal Femur Plate
- Periprosthetic Proximal Femur Plate
- Trochanteric Hook Plate
- Trochanteric Ring Plate

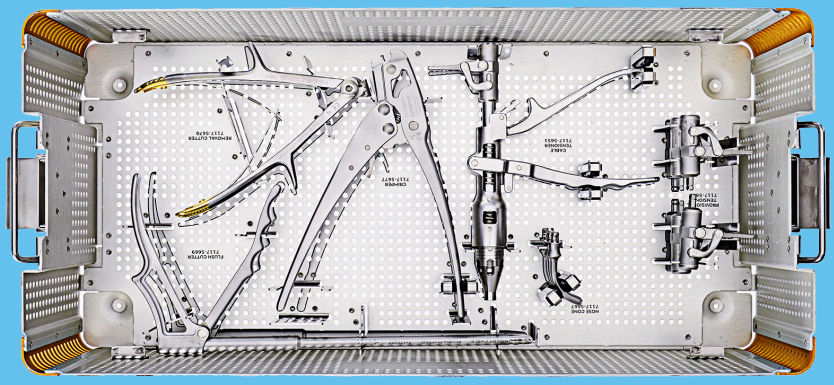
Distal Femur Targeter:
- Lateral Distal Femur Plate
- Periprosthetic Lateral Distal Femur Plate

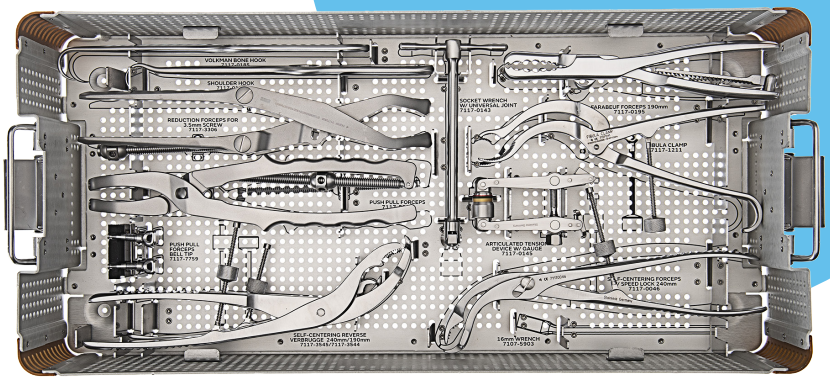
Proximal Tibia Targeter:
- Lateral Proximal Tibia Plate

Cabling and reduction

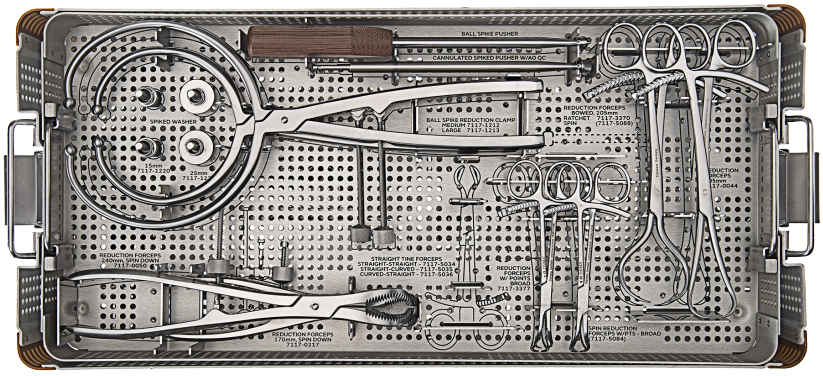


Cabling trays





Advanced reduction trays



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31159 V1 09/22

References

1. Smith+Nephew 2020. Construct Fatigue Evaluation of the Stainless Steel EVOS 3.5 mm / 4.5 mm Peri-prosthetic Trochanteric Ring Plate as compared to the Ti-6Al-4V Accord STD Trochanteric Grip Plate in a Simulated Greater Trochanter Fracture Model in Quasi-Dynamic Stair Climbing. Internal Report. OR-20-132A **2.** 2020. EVOS Large Frag Peri-Prosthetic Trochanteric Hook Plate Validation Lab. **3.** Smith+Nephew 2020. EVOS Large Frag Peri-Prosthetic Distal Femur Plate Validation Lab. Internal Report. **4.** Smith+Nephew 2020. EVOS Large Frag Peri-Prosthetic Utility Plate Validation Lab Internal Report. **5.** Smith+Nephew 2020. Screw Trajectories. Internal Report. I12-LCPL-B. **6.** Smith+Nephew 2020. EVOS Large Frag Lateral Proximal Tibia Plate Validation Lab. Internal Report.