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Johnson & Johnson Pvt. Ltd. 501, Arena Space, Behind Majas Depot, JVLIR, Jogeshwari East, Mumbai 400060

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K E E P P E O P L E M O V I N G

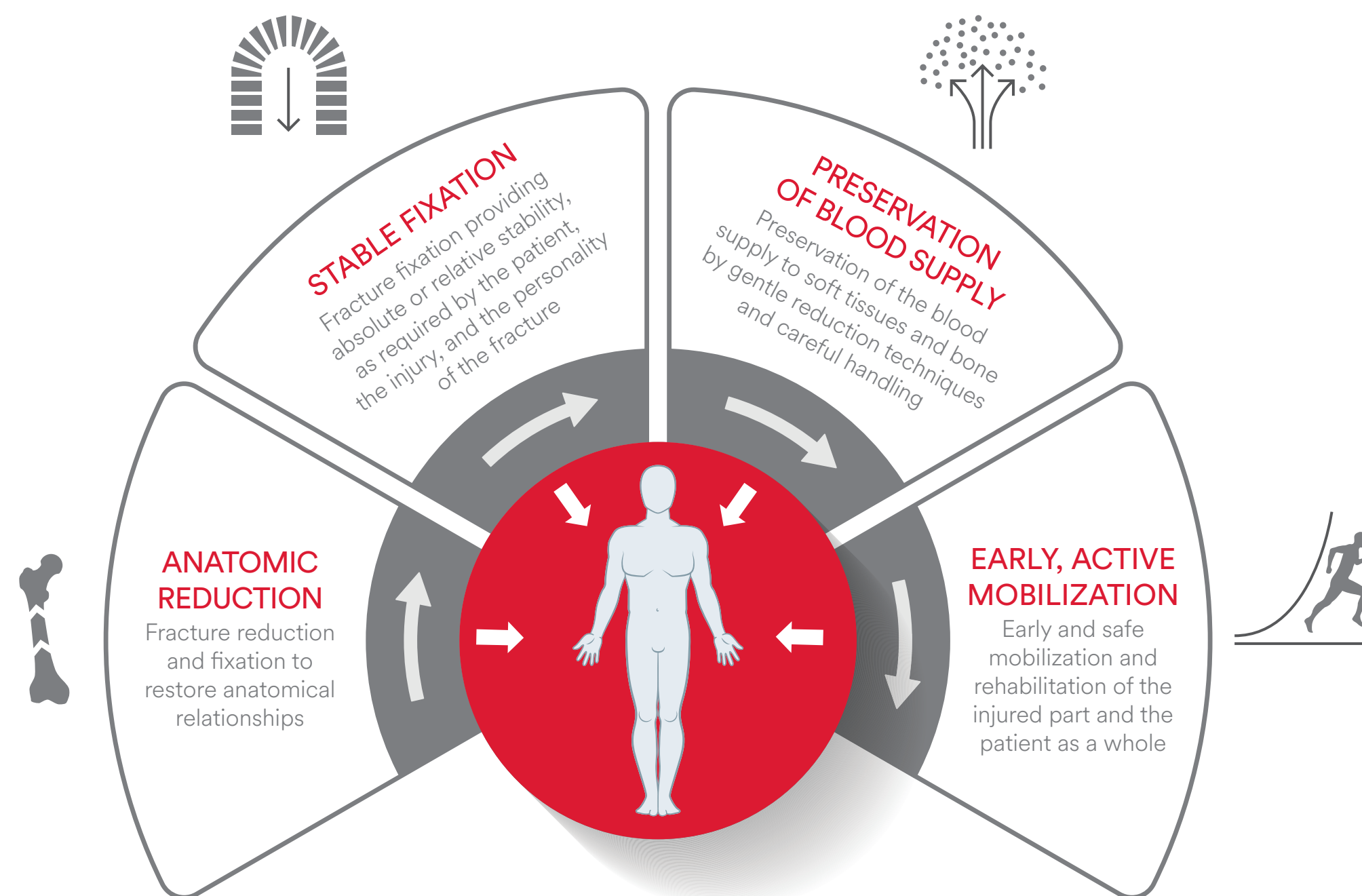


KEEP PEOPLE MOVING



DePuy Synthes, the Orthopaedics Company of Johnson & Johnson, provides one of the most comprehensive orthopaedics portfolios in the world that helps heal and restore movement for the millions of patients we serve. DePuy Synthes solutions, in specialties including joint reconstruction, trauma, extremities, craniomaxillofacial, spinal surgery and sports medicine, in addition to the VELYS™ Digital Surgery portfolio, are designed to advance patient care while delivering clinical and economic value to health care systems worldwide. Building on our proud product innovation and legacy of industry firsts, we are reimagining the orthopaedic landscape with new advancements in medical technologies and digital surgery across the entire continuum of care to Keep People Moving today and tomorrow.

AO PRINCIPLES



In 1958, the AO formulated four basic principles, which have become the guidelines for internal fixation^{1,2}

References: 1. Müller ME, Allgöwer M, Schneider R, Willenegger H. Manual of Internal Fixation. 3rd ed. Berlin, Heidelberg, New York: Springer-Verlag; 1991.
2. Rüedi TP, RE Buckley, CG Moran. AO Principles of Fracture Management. 2nd ed. Stuttgart New York: Thieme; 2007.

HIP & PELVIS SOLUTIONS



FEMORAL
NECK
SYSTEM



TRAUMACEM™
V+
AUGMENTATION



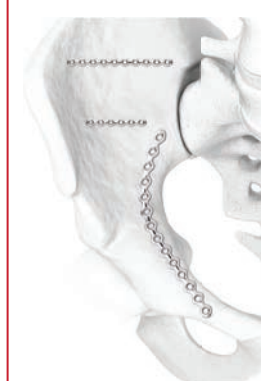
TFN-ADVANCED™



FEMORAL
RECON
NAIL



QUADRILATERAL
SURFACE
PLATE



LOW PROFILE
PELVIC
SYSTEM



PUBIC
SYMPHYSIS



SPRING
PLATE 3.5

TFN-ADVANCED™ PROXIMAL FEMORAL NAILING SYSTEM WITH TRAUMACEM™ V+ AUGMENTATION

Now the TRAUMACEM™ V+ Augmentation System is offered exclusively for use with the TFN-ADVANCED™ Proximal Femoral Nailing System. This system is designed to improve construct stability in at-risk patients with poor bone quality and adds to a growing list of unmatched comprehensive surgical options.

ENHANCED STABILITY

Augmented head elements have up to a 244% increase in resistance to cut-out and resist varus collapse for up to 346% more cycles than non-augmented constructs^{1,2}

READY WHEN NEEDED

Fenestrated head elements and optimized cement handling allow for intraoperative decision making in at-risk patients

CLINICALLY PROVEN

No reported incidences of revision due to mechanical failure, unexpected head element migration or complications related to the cement, according to three European prospective multicenter trials with over 150 patients^{3,4,5}

References: 1. DePuy Synthes Test Data. Biomechanical Evaluation of Non-Augmented & Augmented TFNA Head Elements in Surrogate Femoral Heads, Windchill 0000268245. 2. Hofmann L et al. Biomechanical Effect of bone cement augmentation on the fixation strength of TNFA blades and screws. Presented at 22nd Congress of the European Society of Biomechanics. 10-13 July 106. Lyon, France. 3. Kammerlander C. et al. Standardized cement augmentation of the PFNA using a perforated blade: A new technique and preliminary clinical results. A prospective multicenter trial." Injury. 2011; 42 (12): 1484-1490. 4. Kammerlander C. et al. Long-Term results of the augmented PFNA: a prospective multicenter trial. Arch Orthop Trauma Surg. 2014; 134(3): 343-349. 5. Kammerlander C. et al. Cement Augmentation of the Proximal Femoral Nail Antirotation (PFNA) – A Multicenter Randomized Controlled Trial. Injury 2018; 49 (8): 1436-1444.



FEMORAL RECON NAIL

The Femoral Recon Nail (FRN) System offers extensive options to meet your surgical preferences and enable the treatment of a range of fracture complexity. It's another in a growing list of unmatched comprehensive surgical options designed to meet your highest standards.

CHOICE OF ENTRY POINTS

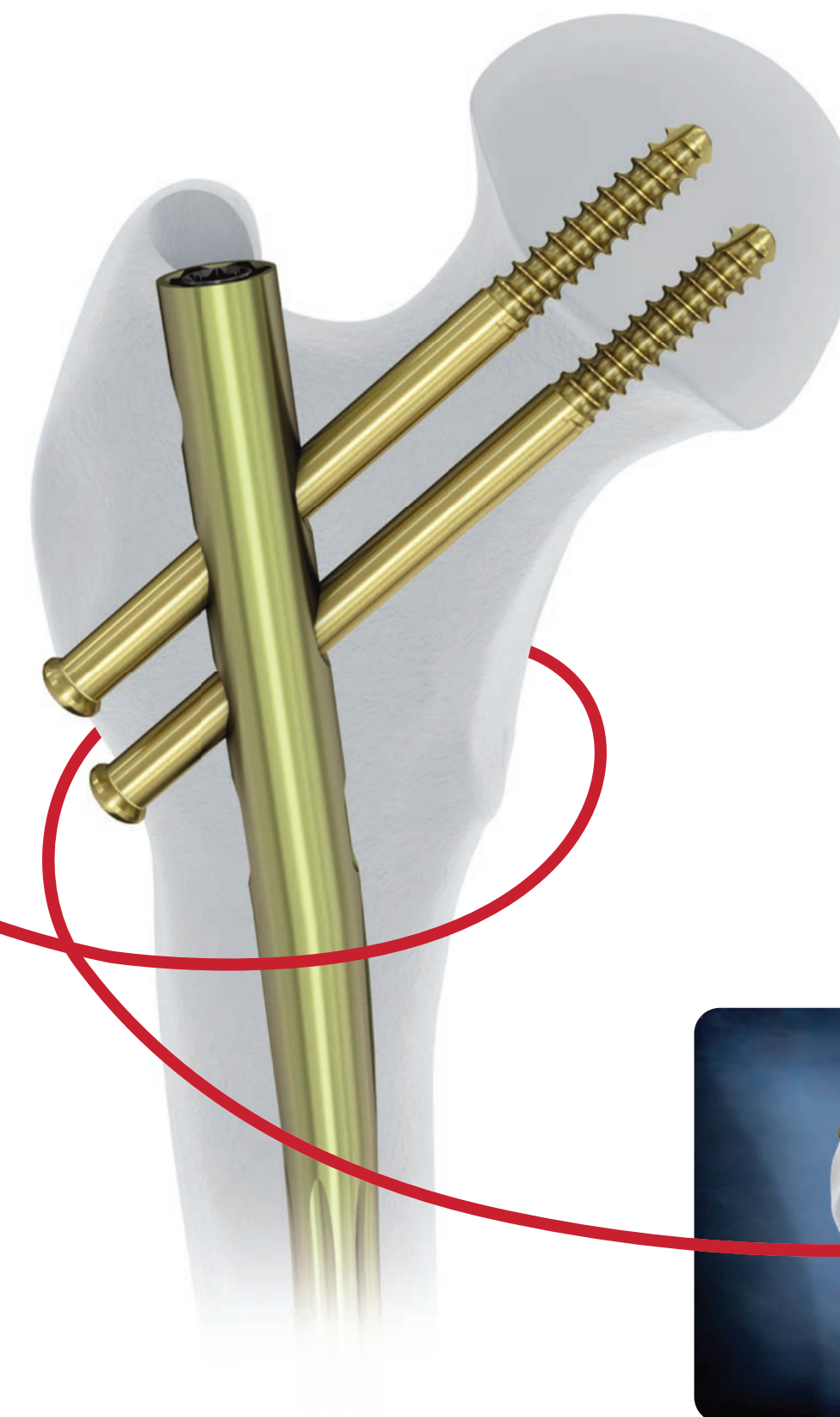
Designed with option for both Piriformis Fossa (PF) and Greater Trochanter (GT) entry points to accommodate surgeon preference and approach

EXTENSIVE LOCKING OPTIONS

Proximally: choice of standard, recon, or combined locking modes
Distally: 4 locking options including an A/P hole, distal dynamization option, and an oblique distal locking hole offset at 10 degrees

ANATOMICAL FIT

1.0 m radius of curvature designed to help avoid anterior cortex impingement and short proximal nail end designed to reduce risk of nail prominence^{1,2}



FEMORAL NECK SYSTEM (FNS)

The Femoral Neck System (FNS) is designed for improved angular stability and rotational stability with the intent to reduce reoperations related to fixation complications.

ENHANCED FIXATION

A minimum of 100% more resistance to varus collapse (leg/neck shortening) and 150% more rotational stability compared to 3 cannulated screws^{1,2}

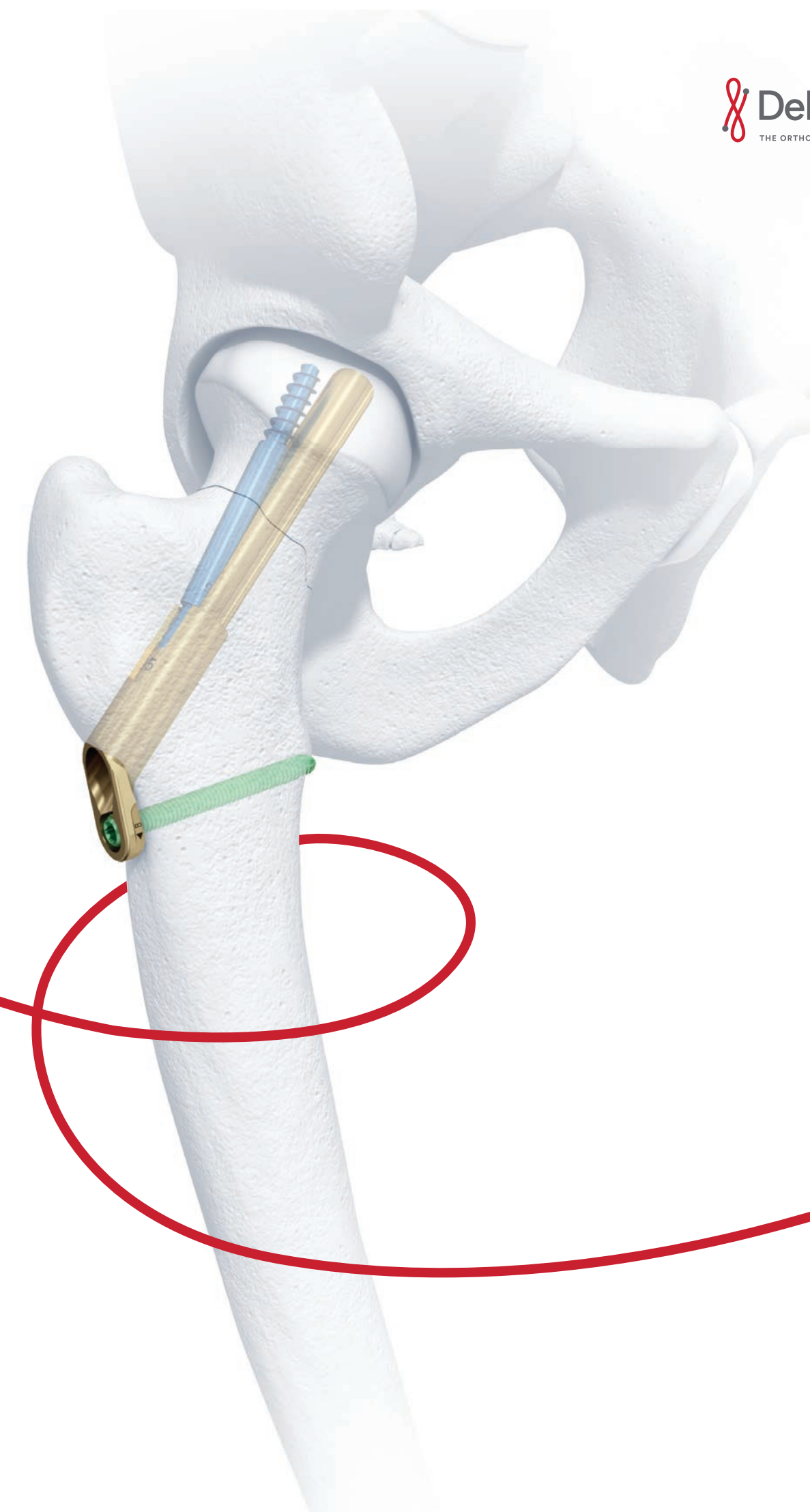
COMPACT DESIGN

Dynamic design with 20 mm of controlled collapse, with no lateral protrusion for the first 15 mm³

STREAMLINED PROCEDURE

Repeatable approach through a targeted insertion handle; all steps of the procedure can be completed after placement of one central guidewire into the femoral head³

References: 1. Stoffel K, Zderic I, Gras F, Sommer C, Eberli U, Mueller D, Oswald M, Gueorguiev B. Biomechanical evaluation of the femoral neck system in unstable Pauwels III femoral neck fractures: a comparison with the dynamic hip screw and cannulated screws. J Orthop Trauma. 2017; 31(3):131-137. 2. DePuy Synthes Report: Static Cut Through Rotation Test in Bone Foam. 2018. Ref: 0000277853. 3. DePuy Synthes Report: FNS Design & Procedure Comparison. 2018. Ref: 0000274963.



KNEE SOLUTIONS

TN-ADVANCED™
TIBIAL NAILING
SYSTEM



LCP™
DISTAL
FEMUR
& LCP™
PROXIMAL
LATERAL
TIBIA PLATE



VA-LCP™
CONDYLAR
PLATE
4.5/5.0



TOMOFIX™
LATERAL
HIGH TIBIA
PLATE



TOMOFIX™
MEDIAL
HIGH TIBIA
PLATE



TOMOFIX™
MEDIAL
DISTAL
FEMUR
PLATE



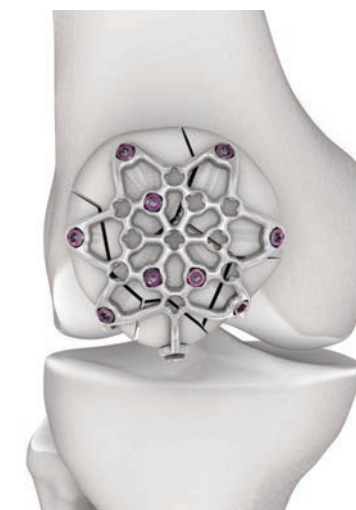
TOMOFIX™
LATERAL
DISTAL
FEMUR
PLATE



VA-LCP™
PROXIMAL
TIBIA
PLATE



VA LOCKING
ANTERIOR
PATELLA PLATE 2.7



RFN-
ADVANCED™
RETROGRADE
FEMORAL
NAILING
SYSTEM



TN-ADVANCED™ TIBIAL NAILING SYSTEM

- Intramedullary nailing is the most popular and widely used method for treating tibial shaft fractures.¹
- Despite the advantages of tibial nailing, 24% of patients require a second tibial surgery within one year.²

INCREASED STABILITY

- The TN-ADVANCED™ Nail increases construct stability while reducing the number of screws required.³

Compared to conventional nails without polymer inlay such as the expert nail™ tibial nails.

PATIENT SATISFACTION

- Locking implants are designed to reduce prominence in areas of minimal soft tissue coverage.⁴

INTUITIVE CONNECTED INSTRUMENTATION

- Designed to reduce procedural complexity compared to the EXPERT NAIL™ Tibial Nailing System, and support infra-, supra-, and parapatellar approaches.^{5,6}

References: 1. Cereijo C, Attum B, Rodriguez-Buitrago A, Jahangir AA, Obrensky W. Intramedullary Nail Fixation of Tibial Shaft Fractures: Suprapatellar Approach. JBJS Essent Surg Tech. 2018;8(3):e24. Published 2018 Sep 12. doi:10.2106/JBJS.ST.17.00063. 2. Chitnis AS, Vanderkarr M, Ray B, Holy CE, Hughson S, Blauth M. Reoperations after intramedullary fixation of tibial fractures. Value in Health. 2020;23(1):185. doi:10.1016/j.jval.2020.04.559. 3. DePuy Synthes biomechanical test report for TN-Advanced™ Nail. 8/13/2020. Windchill Document #0000305118. 4. DePuy Synthes test result summary for Secure Retaining Screws. 8/17/2020. Windchill Document #0000295306. 5. DePuy Synthes Advanced Nail System summary. 8/17/2020. Windchill Document #0000302373. 6. DePuy Synthes design validation report for TN-Advanced™ System. 7/16/2020. Windchill Document #0000294357

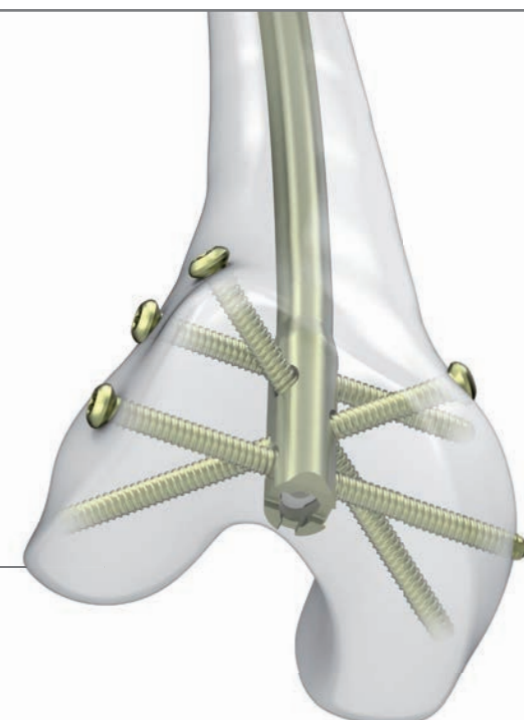


RFN-ADVANCED™ RETROGRADE FEMORAL NAILING SYSTEM

STABILITY TO DO MORE™

MULTI-PLANER DESCENDING OBLIQUE SCREW PATTERN

- Two descending oblique screws target denser posterior condyles.



PERIPROSTHETIC LOCKING ATTACHMENT WASHER

- RFN-Advanced System offers two Locking Attachment Washers, including one designed with a larger offset and with screw holes specifically for use with a TKA.



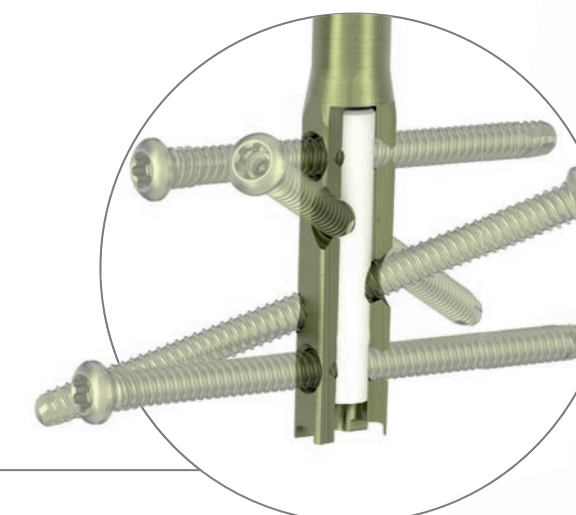
INCREASED STABILITY

- The RFN-Advanced™ Retrograde Femoral Nailing System (RFNA) is designed to improve fixation by reduced toggle and loss of reduction for distal femur fractures.²

ANGULAR STABILITY

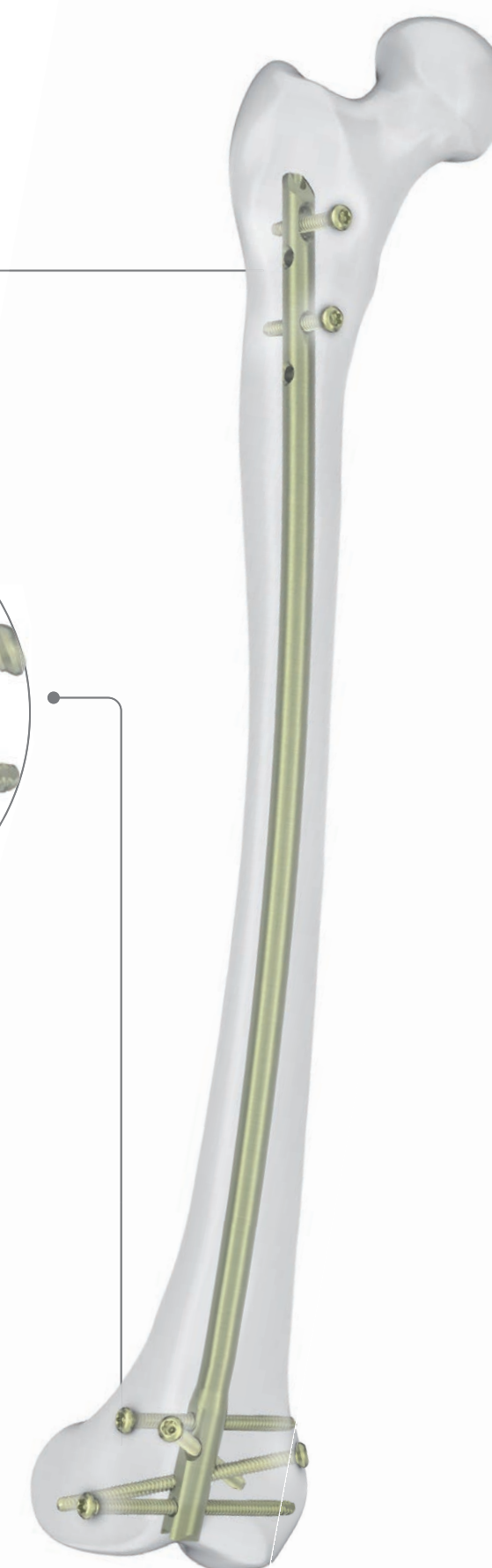
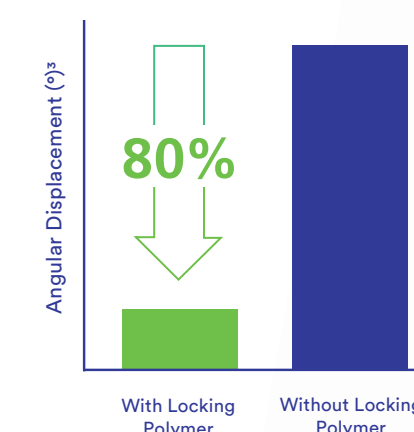
- Locking Polymer is built into the nail for **angular stability in all distal locking screws** without additional steps, end caps, or special instruments.²

Designed to avoid the challenges associated with cross-threading and cold-welding.²



REDUCED SCREW TOGGLE AND SCREW LOOSENING

- Designed to help maintain alignment of the distal fragment, the Locking Polymer **reduces screw toggle by 80%** and holds the screw in position relative to the nail, increasing pull out strength up to 128%, compared to a nail without Locking Polymer.^{1,3,4}



VA-LCP™ PROXIMAL TIBIA PLATE

- Lateral Column Fixation
- Designed to accommodate varying patient anatomies with small or large bend options available

VARIABLE ANGLE (VA) LOCKING TECHNOLOGY

VA locking holes allow +/- 15° off-axis screw angulation

- Colour-coded VA locking screw heads for differentiation from locking screws



- VA locking combi-holes in the plate shaft combine compression and VA locking capabilities



PLATES

- Available in small and large bends to cover a wide range of tibial shapes
- Available in 4 to 14 holes ranging from 87 mm to 237 mm



INSTRUMENTATION

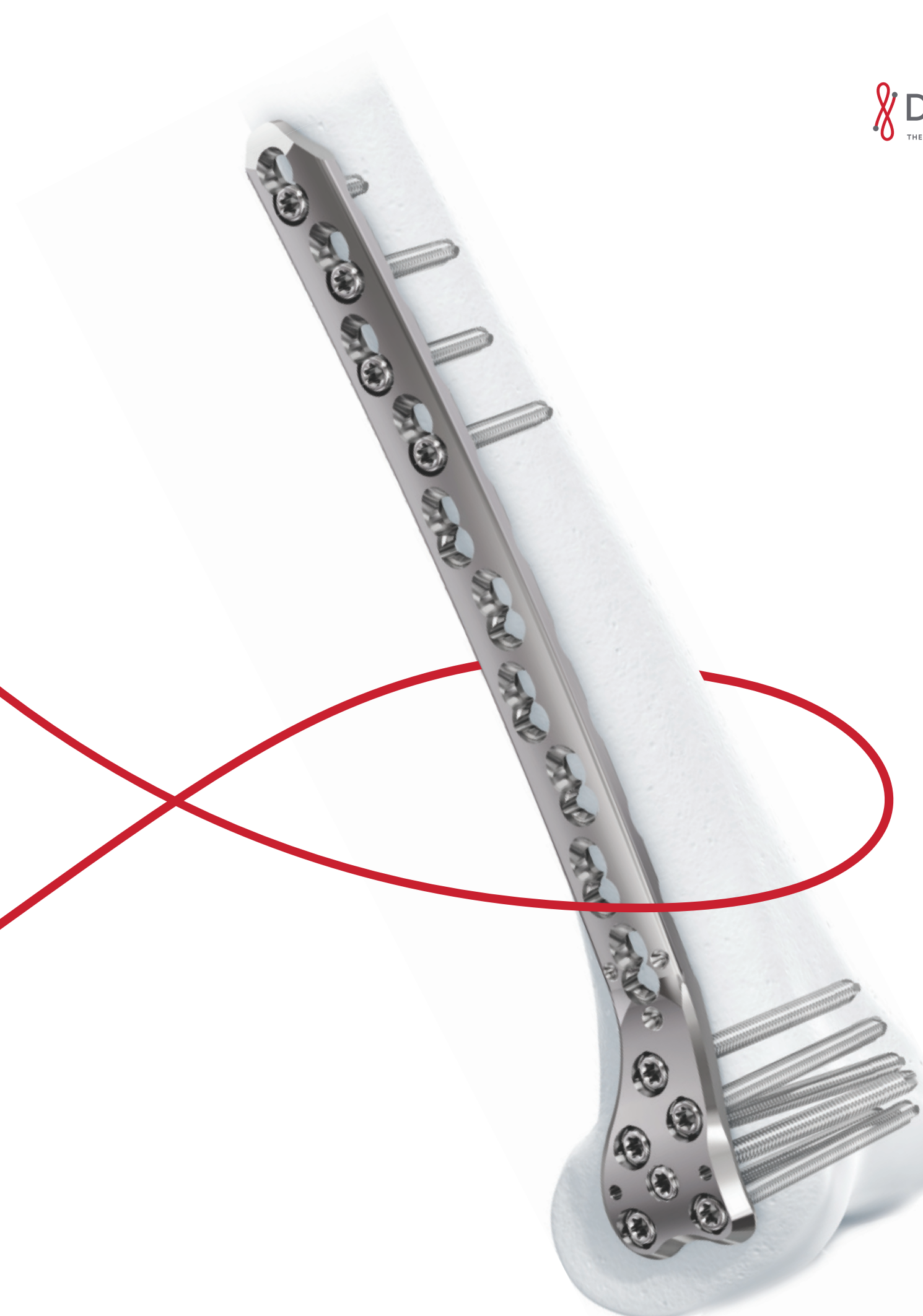
- Aiming Arm:
 - Facilitates minimally invasive screw insertion
 - Instrumentation for straight forward assembly and handling
 - Aiming arm for screw insertion suitable for all applicable plate types (right, left, small bend, large bend)



VA-LCP™ CURVED CONDYLAR PLATES 4.5 MM

- Variable Angle locking screws designed to avoid the stem of knee prosthesis in periprosthetic fractures
- Cannulated screws allow controlled screw insertion in the femoral condyles

Specialized instrumentation for a percutaneous approach, such as a scalpel blade handle for use with the aiming arm



Variable Angle Locking Patella Plating System

- The VA Locking Patella Plates are universal for either left or right use and are available in Stainless Steel. The plates are pre-contoured and come in two sizes, small and standard, and are provided sterile packed.

OPEN ARCHITECTURE

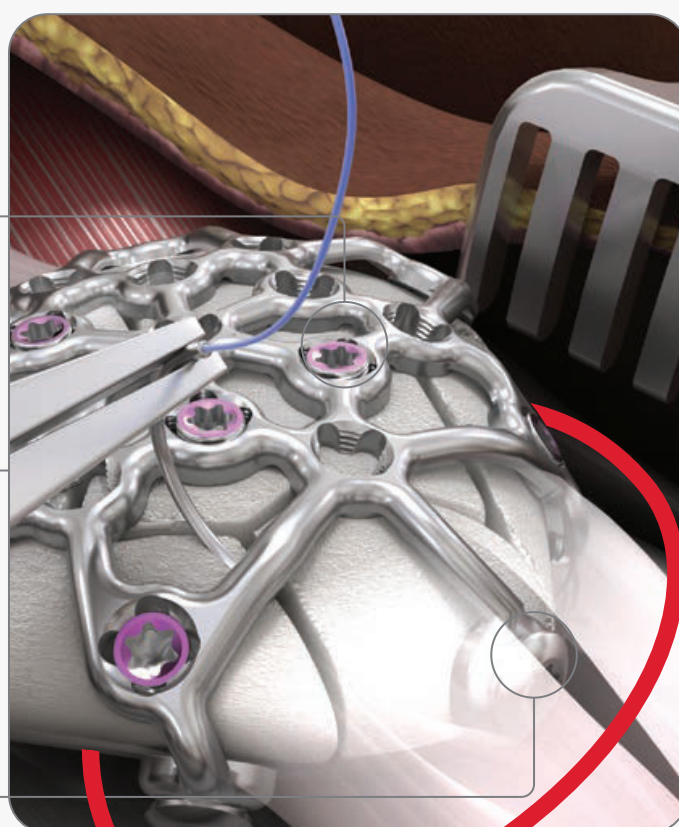
- Plate design allows bending and contouring to meet patient-specific needs.¹ Windows can be used to attach soft tissue with sutures.

LOW PROFILE

- SSt = 1.8 mm thickness
- Ti = 2.0 mm thickness

LEG BENEFITS

- Secure distal pole
- Can be oriented as needed on the patella surface
- Allow bicortical polar (apex to base) screws to be placed for interfragmentary fixation¹

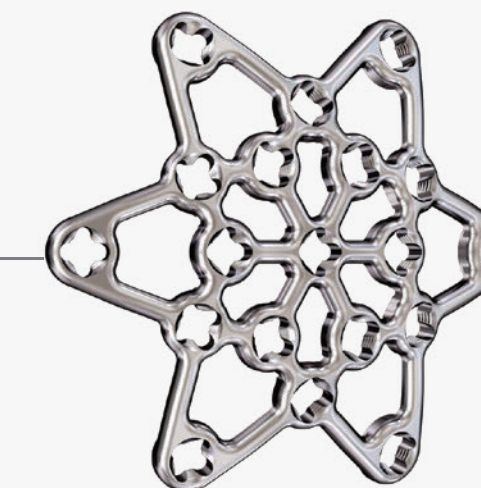


TAB

- Orient the plate when bending ex situ.

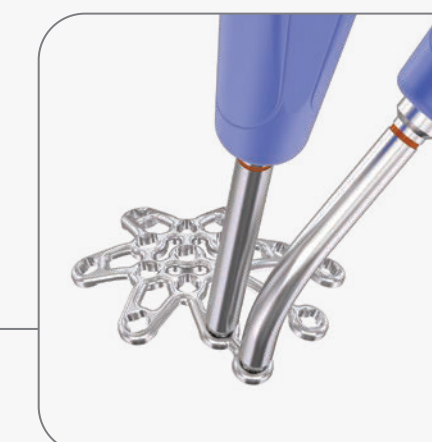
VA LOCKING HOLES

- Screw holes accept 2.4 mm* and 2.7 mm VA locking and cortex screws. VA locking holes enable up to 15° of screw angulation to target small bone fragments, avoiding fracture lines and other hardware.¹



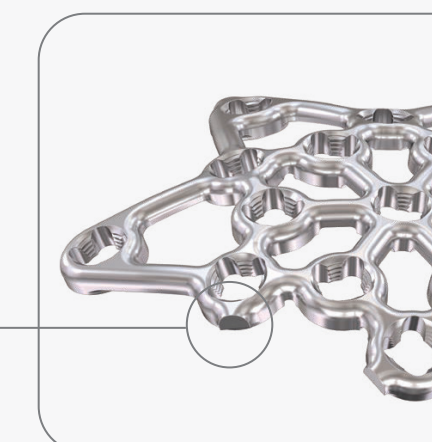
DEDICATED BENDING INSTRUMENTS

- Bending instrument with special cloverleaf tip design to maintain integrity of VA locking holes and allows for appropriate in situ and ex situ bending.



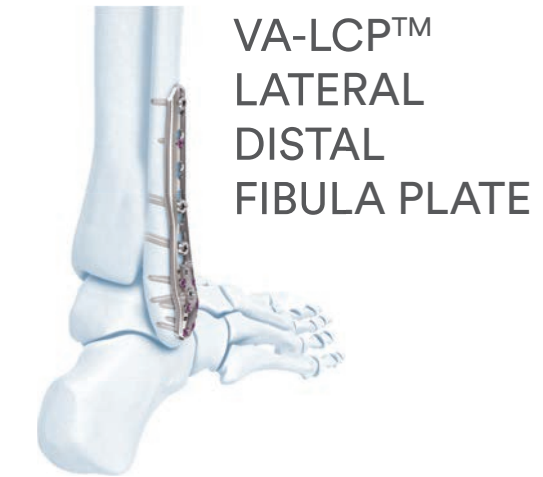
CUTTING

- Plates can be cut to meet the needs of the specific fracture pattern and patient anatomy.¹



1. DePuy Synthes. Validation Lab Report. October 2020. Windchill # 0000307351.

FOOT & ANKLE SOLUTIONS



VA-LCP™
LATERAL
DISTAL
FIBULA PLATE



VA-LCP™
MEDIAL
DISTAL TIBIAL
PLATE



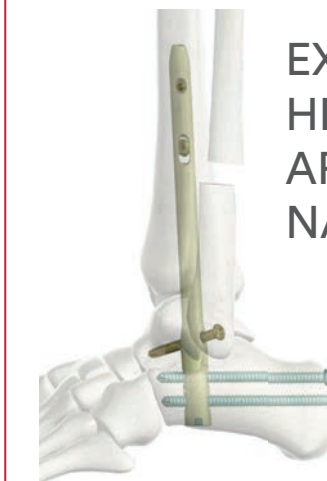
VA-LCP™
ANTEROLATERAL
DISTAL TIBIAL
PLATE



LCP™
MEDIAL
DISTAL TIBIAL
PLATE 3.5



VA-LCP™
POSTEROLATERAL
DISTAL
TIBIAL PLATE



EXPERT™
HINDFOOT
ARTHRODESIS
NAIL



VA-LCP™
FOREFOOT/
MIDFOOT
SYSTEM 2.4/2.7



VA LOCKING
CALCANEAL
PLATE 2.7

VA LCP™ DISTAL TIBIA PLATES 2.7/3.5

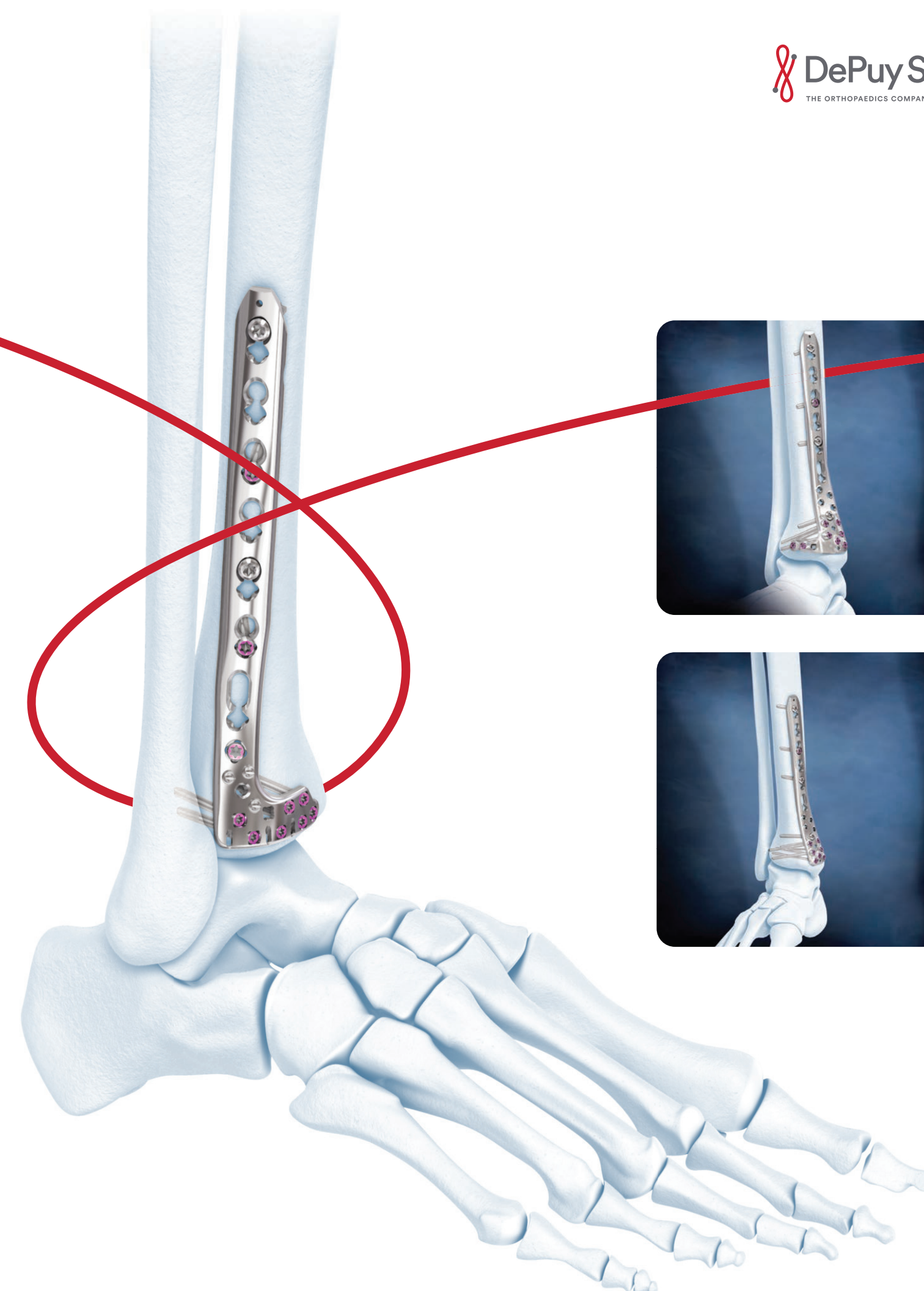
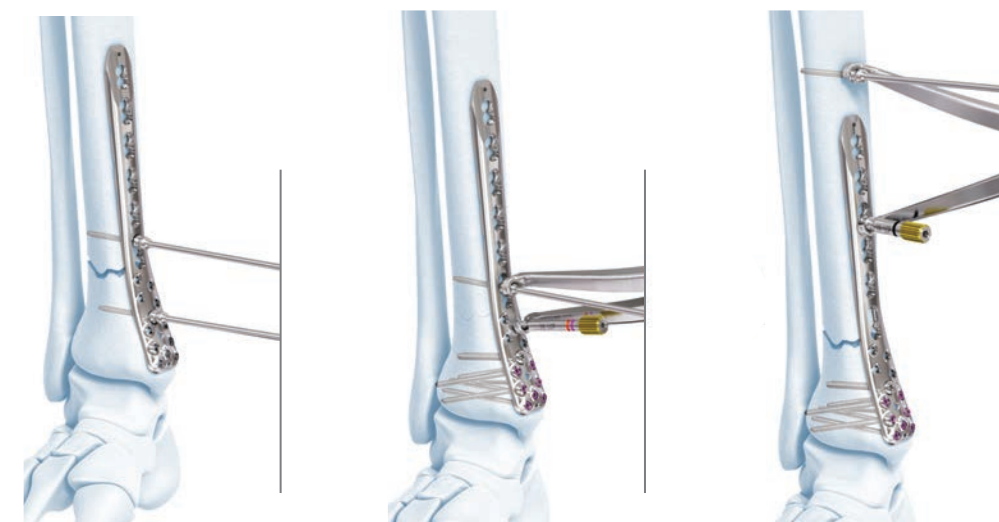
Our most comprehensive ankle trauma plating system with multiple reduction options and with Variable Angle (VA) screw placement.

- Available in a variety of plate shapes, including
 - Medial Distal Tibia Plates
 - Anteromedial Distal Tibia Plates
 - Anterolateral Distal Tibia Plates

FEATURES

- Variable Angle Technology**
Variable Angle (VA) locking screw technology allows freedom to choose screw trajectory to avoid existing implants, prosthesis or independent tag screws

Compression and Distraction Systems
Advanced instruments supporting fracture reduction, compression and/or distraction



VA LCP™ FOREFOOT/MIDFOOT SYSTEM 2.4/2.7

Wide range of low-profile plates with Variable Angle (VA) screw placement and compression system designed within the plates to help minimize additional soft tissue dissection.

Available in a variety of plate shapes, including

- Straight Fusion Plates
- T-Fusion Plates
- L-Fusion Plates
- Cloverleaf Fusion Plates
- X-Plates
- 1st MTP Fusion Plates
- Opening Wedge Plates
- TMT Fusion Plates
- Tarsal Plates
- Mesh Plate

Available in titanium

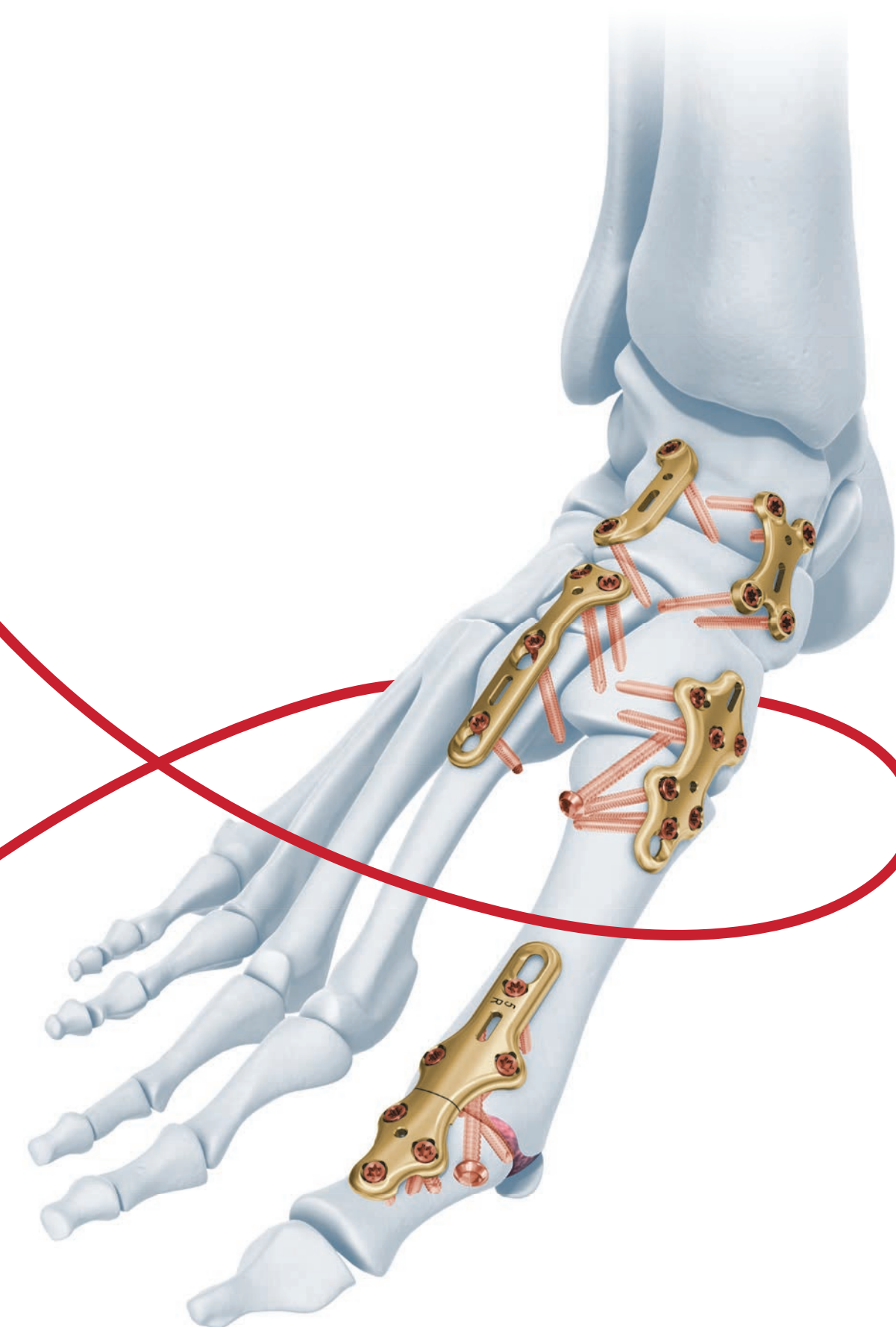
Proximal Reamers:

- Concave shape to form a sphere on the joint surface
- Leading edge radius to help prevent soft-tissue damage



Distal Reamers:

- Convex shape to form a pocket in the joint surface
- Tapered to help prevent damage to the metatarsal head



VA LOCKING CALCANEAL PLATES 2.7

The Synthes Variable Angle Locking Calcaneal Plates 2.7 are indicated for intra- and extra-articular fractures of the calcaneus, as well as deformities and malunions.

LATERAL EXTENSILE APPROACH

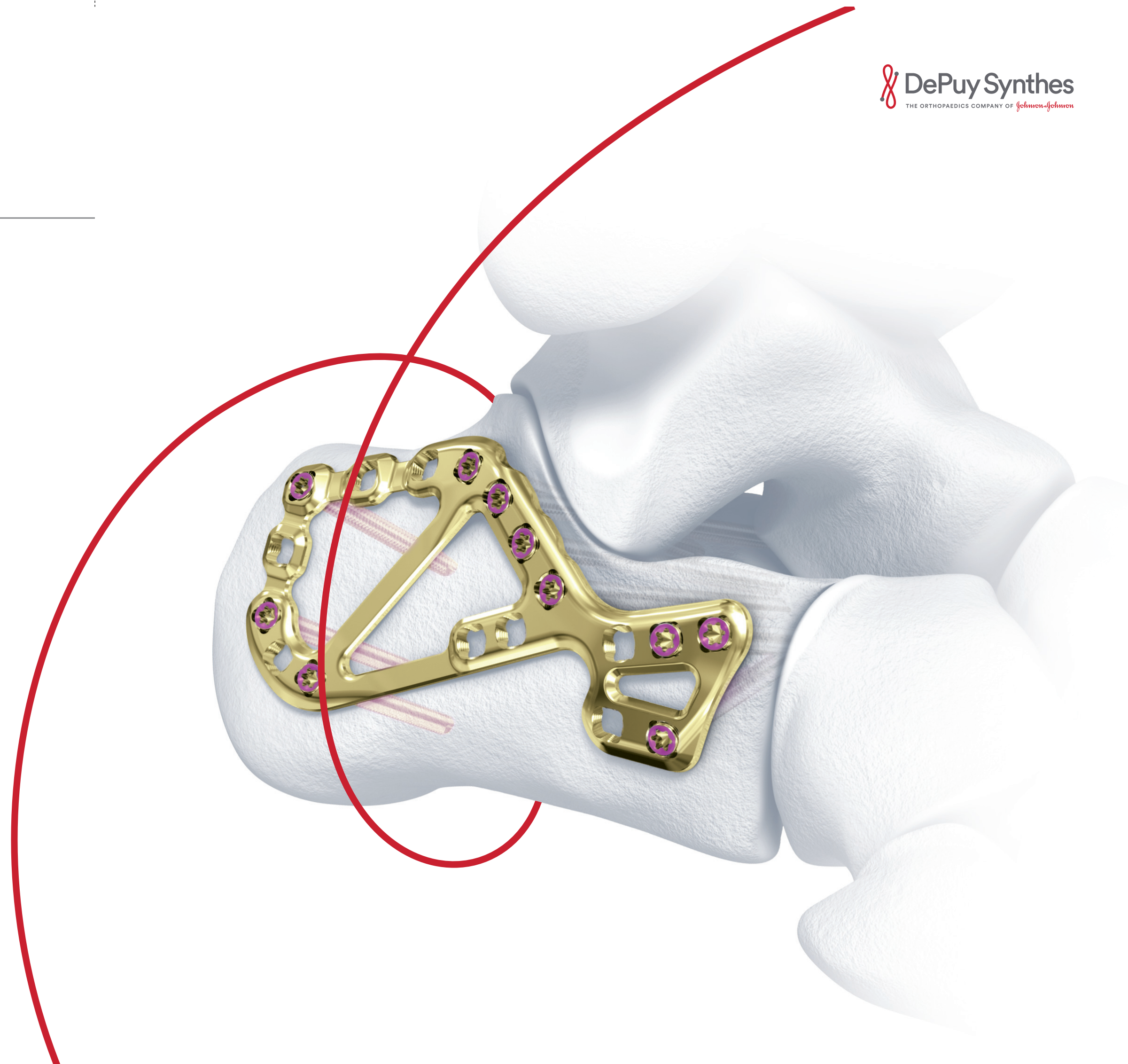
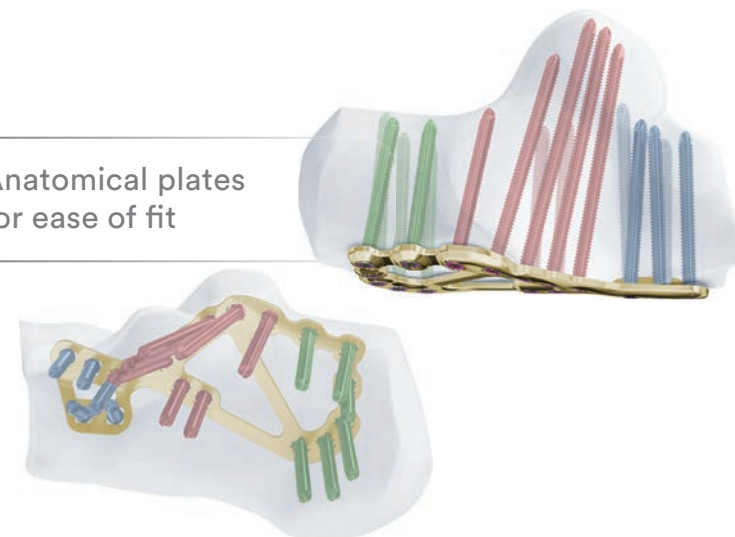
- Proximal Reamers:
 - Multiple fixation points target key areas of hard cortical bone
 - VA locking screws are targeted to buttress posterior and middle facet and converge in hard bone of sustentaculum

- Sizes:
 - Small (58 mm), Left and right plate options
 - Medium (64 mm), Left and right plate options
 - Large (70 mm), Left and right plate options

Stable fixation with
VA-LCP™ technology



Anatomical plates
for ease of fit



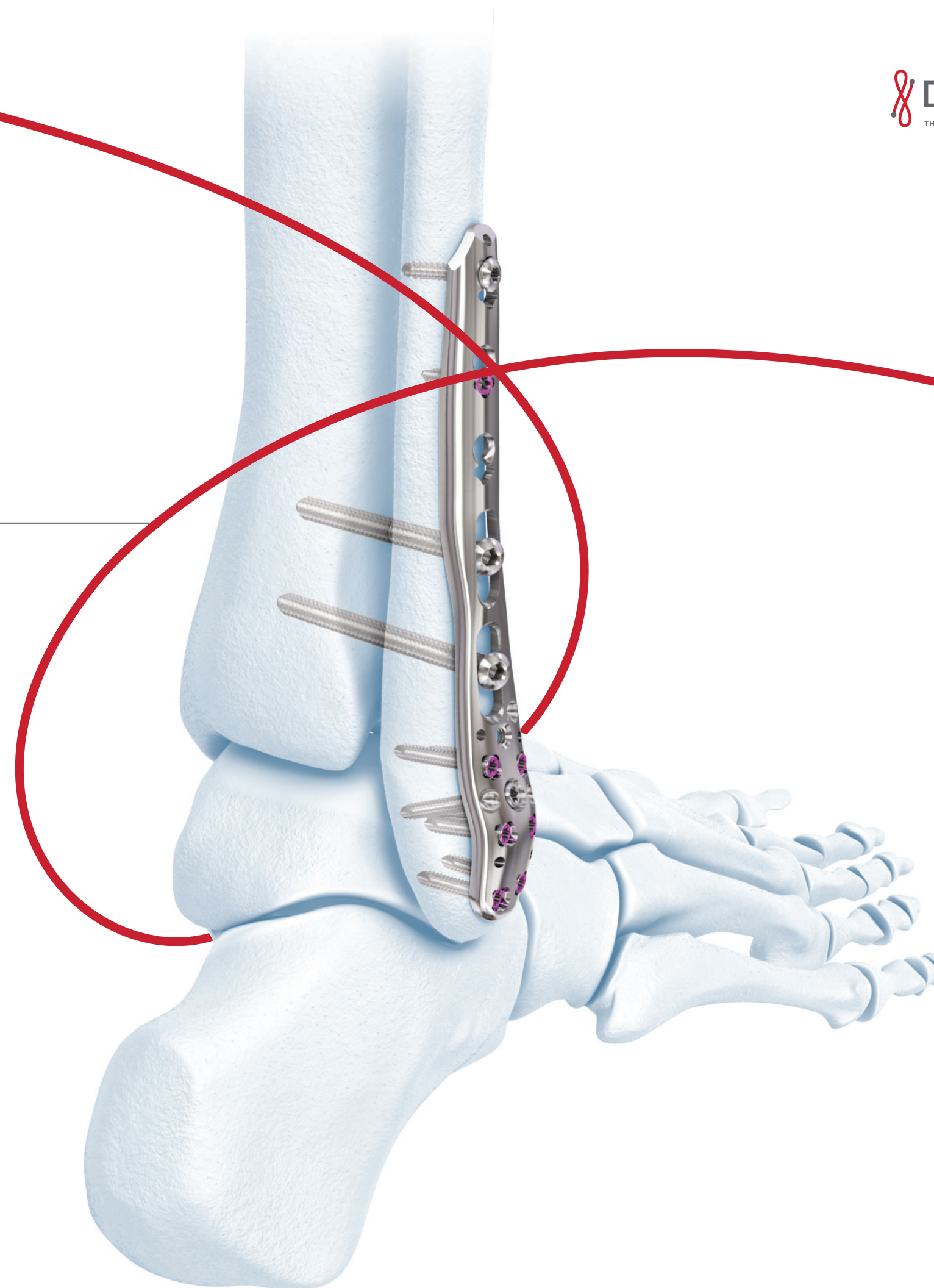
VA LCP™ DISTAL FIBULA PLATES

ENABLES CHOICE OF SCREW FUNCTIONALITY IN EVERY COMBI-HOLE

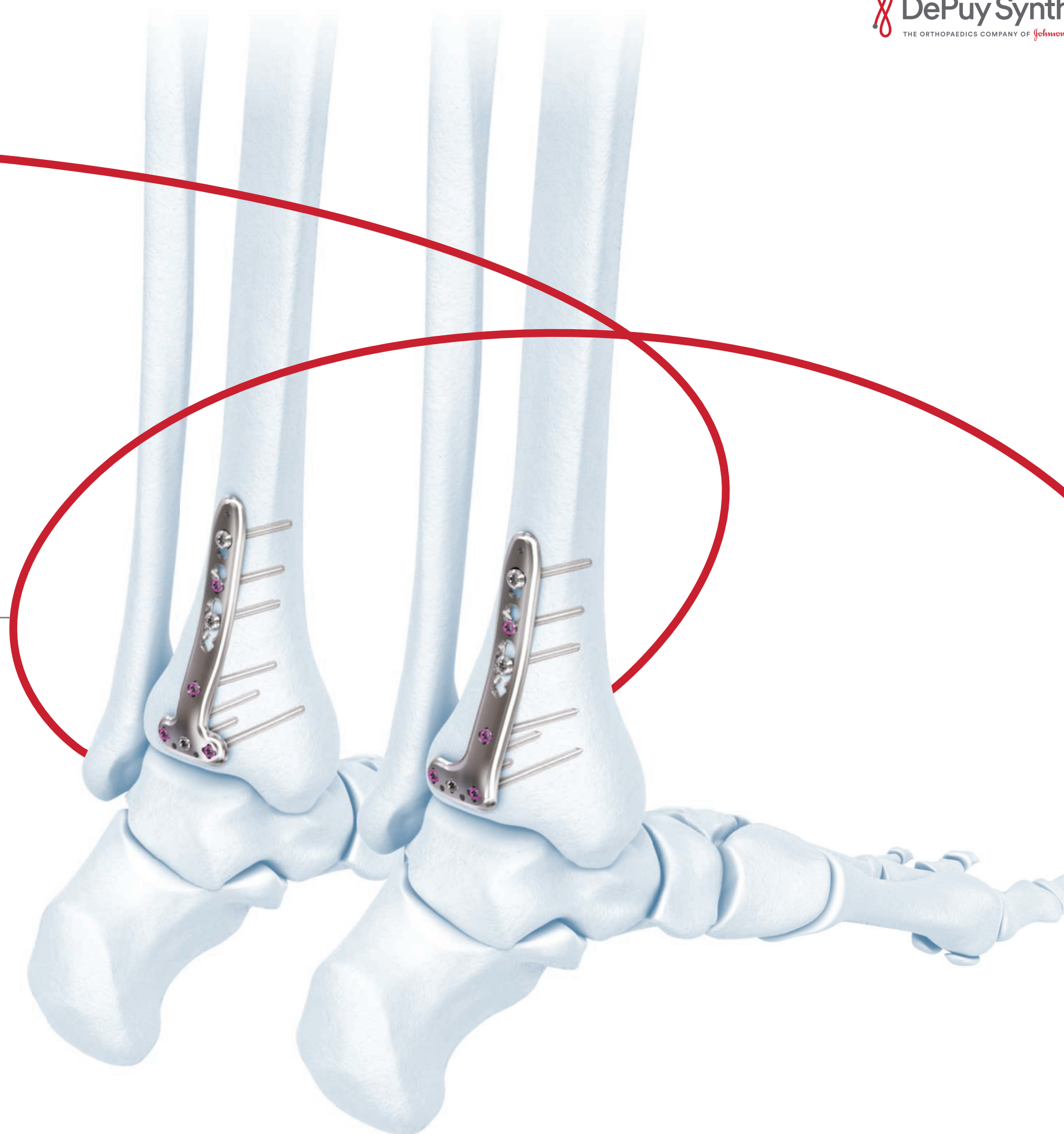
- Every hole in the Plate Shaft is a Variable Angle Combi-hole
- The combi-hole design provides flexibility for choosing between axial compression or Variable Angle locking through the same hole

CHOICE OF SYNDESMOTIC FIXATION PLACEMENT WITH DEDICATED SLOTS

- Greater flexibility with placement of syndesmotic fixation devices
 - Two syndesmotic slots with 30 degree anterior angulation
 - Facilitating syndesmotic fixation into the center of the distal tibia
 - Accept 3.5 mm and 4.0 mm Cortex screws and FIBULINK™ Implant system



VA LCP™ POSTERIOROLATERAL T-/L-TIBIA PLATES

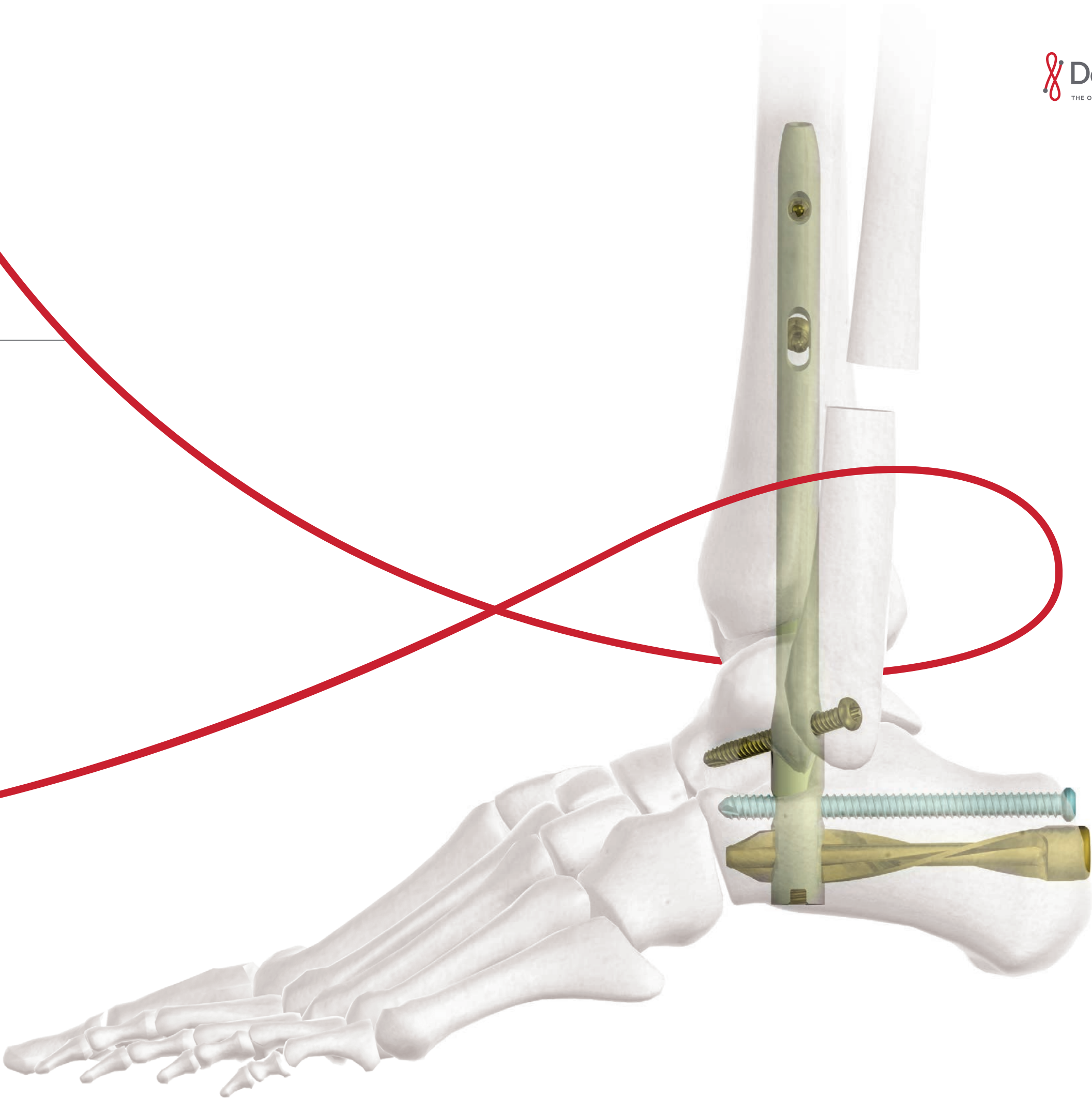


EXPERT™ HINDFOOT ARTHRODESIS NAIL

The Hindfoot Arthrodesis Nail, part of the EXPERT NAIL™ System, permits a proper hindfoot alignment due to a lateral bend of the nail along with an improved stability provided through various locking options.¹

NAIL FEATURES

- Right and left designs
- Cannulated for use over all DePuy Synthes 2.5 mm/3.0 mm ball-tipped reaming rods
- 12° lateral bend



References: 1. Belthur MV, Conway JD, Jindal G, Ranade A, Herzenberg JE. Bone graft harvest using a new intramedullary system. Clin Orthop Relat Res. 2008; 466(12): 2973-2980.

SHOULDER & ELBOW SOLUTIONS

2.7 MM
VA LCP® Clavicle Plate



PHILOS™
PROXIMAL
HUMERAL
PLATE 3.5



LCPTM
PERIARTICULAR
PLATE



MULTILOC™
HUMERAL
NAILING
SYSTEM



LCPTM
DISTAL
HUMERUS
EXTRA-ARTICULAR
PLATE



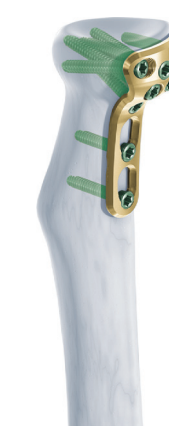
VA-LCPTM
PROXIMAL
OLECRANON
PLATE



RADIAL HEAD
REPLACEMENT
SYSTEM



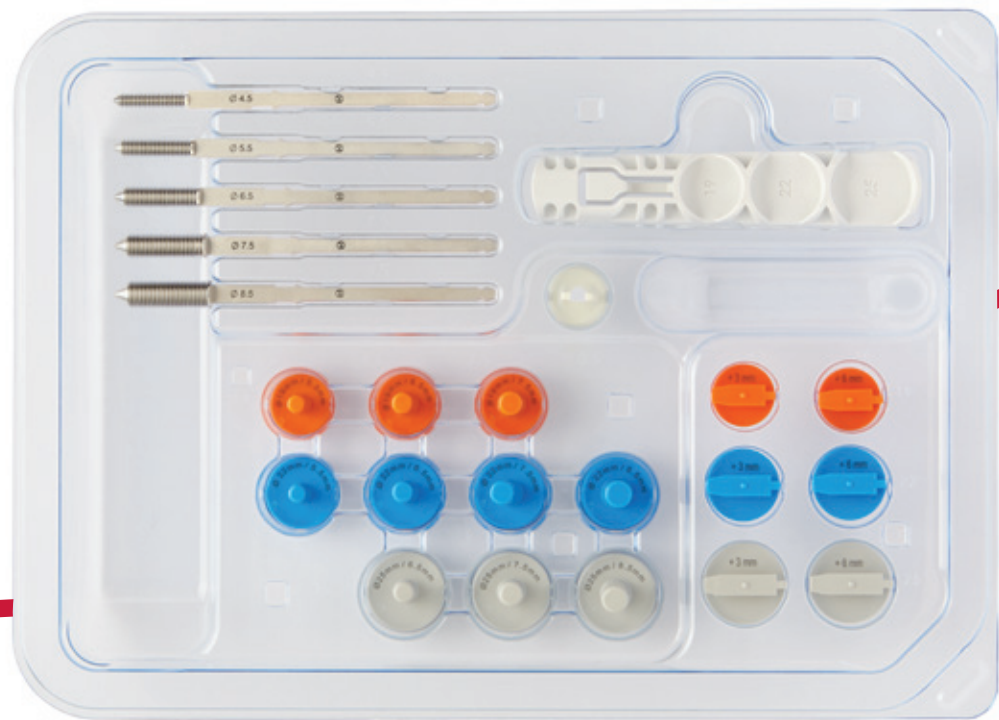
LCPTM PROXIMAL
RADIUS PLATE



RADIAL HEAD REPLACEMENT SYSTEM

SMOOTH STEM DESIGN PLACEMENT, POSITIONING, AND OPTIMAL MECHANICS¹

- May enhance the implant's ability to self-align and "dial in" when the elbow goes through a range of motion and may articulate with the capitellum throughout the entire arc of motion^{2,3}
- Associated with less removal due to implant loosening than press-fit implants⁴⁻¹¹



THE SEE BETTER SIZE BETTER SYSTEM

RADIOLUCENT COLOR-CODED PLASTIC TRIALS SEE MORE THAN METAL

- Designed for better visualization of proximal ulna and joint¹
- Allow for in-situ height determination without repeated removal of trial stems¹
- Facilitate increased visibility¹



INDICATIONS

- For replacement of the radial head for degenerative or post-traumatic disabilities presenting pain, crepitation, and decreased motion at the radio-humeral and/or proximal radio-ulnar joint with joint destruction and/or subluxation visible on x-ray and/or resistance to conservative treatment; for primary replacement after fracture of the radial head or symptomatic sequelae after radial head resection.



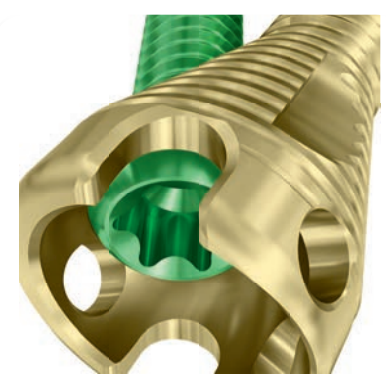
References: 1. DePuy Synthes Report: See Better Size Better Memo. 10/2/2019. Windchill Document #0000290188. 2. Acevedo DC, Paxton ES, Kukelyansky I, Abboud J, Ramsey M. Radial head arthroplasty: state of the art. J Am Acad Orthop Surg. 2014;22(10):633-642. 3. Szmit J, King GJ, Johnson JA, Langohr DG. The effect of stem fit on the radiocapitellar contact mechanics of a metallic axisymmetric radial head hemiarthroplasty: Is loose fit better than rigidly fixed? J Shoulder Elbow Surg. 2019;28(2394-2399. 4. Plinkkila T, Kaisto T, Siirila K, Hyvonen P, Leppilahti J. Short- to mid-term results of metallic press-fit radial head arthroplasty in unstable injuries of the elbow. J Bone Joint Surg Br. 2012;94(6):805-810. 5. Allavena C, Delclaux S, Bonneville N, Rongieres M, Bonneville P, Mansat P. Outcomes of bipolar radial head prosthesis to treat complex radial head fractures in 22 patients with a mean follow-up of 50 months. Orthop Traumatol Surg Res. 2014;100(7):703-709. 6. Nestorson J, Josefsson PO, Adolfsson L. A radial head prosthesis appears to be unnecessary in Mason-IV fracture dislocation. Acta Orthop. 2017;88(3):315-319. 7. Rodriguez-Quintana D, Comulada DB, Rodriguez-Quintana N, Lopez-Gonzalez F. Radial head ingrowth anatomic implant versus smooth stem monoblock implant in acute terrible triad injury: a prospective comparative study. J Orthop Trauma. 2017;31(9):503-509. 8. Grewal R, MacDermid JC, Faber KJ, Drosdowech DS, King GJ. Comminuted radial head fractures treated with a modular metallic radial head arthroplasty. Study of outcomes. J Bone Joint Surg Am. 2006;88(10): 2192-2200. 9. Duckworth AD, Wickramasinghe NR, Clement ND, Court-Brown CM, McQueen MM. Radial head replacement for acute complex fractures: what are the rate and risks factors for revision or removal? Clin Orthop Relat Res. 2014;472(7):2136-2143. 10. Moghaddam A, Raven TF, Dremel E, Studier-Fischer S, Grutzner PA, Biglari B. Outcome of radial head arthroplasty in comminuted radial head fractures: short and midterm results. Trauma Mon. 2016;21(1):e20201. 11. Doornberg JN, Parisien R, van Duijn PJ, Ring D. Radial head arthroplasty with a modular metal spacer to treat acute traumatic elbow instability. J Bone Joint Surg Am. 2007;89(5):1075-1080.

MULTILOC™ HUMERAL NAILING SYSTEM

DePuy Synthes MultiLoc™ Humeral Nailing System provides a comprehensive system for the treatment of humeral fractures. The system consists of short and long nails with multiple screw options to address simple and complex fractures of the proximal humerus as well as humeral shaft.

INNOVATIVE DESIGN

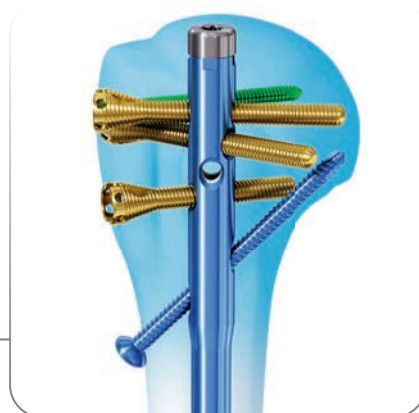
- The system includes several innovative features designed specifically for the clinical needs of humeral nailing
 - Straight nail with central insertion point
 - Unique screw-in-screw option, for improved stability where needed



- Polyethylene inlay for secure screw fixation of proximal screw



- Ascending screw option to provide support to the calcar
 - Multiplanar distal locking for less implant toggling
 - Fully targeted distal locking for the short nail Titanium



VA-LCP® CLAVICLE PLATE 2.7 SYSTEM

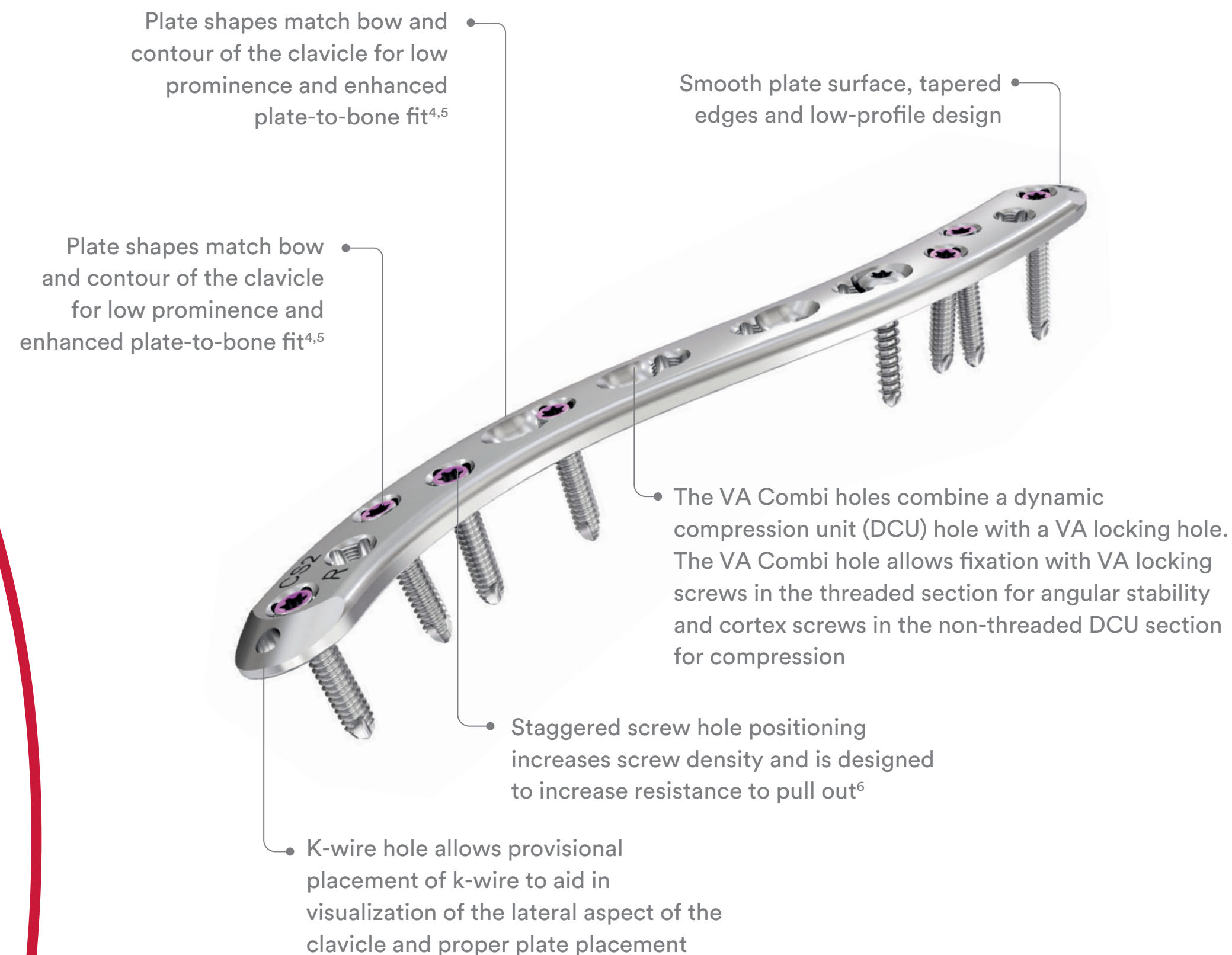
Thinner Plates^{*,†,1}

More Accurate
Plate-to-Bone Fit^{**,†,1}

Reduced Construct
Prominence^{**,†,1}

Comparable
Strength^{***,2,3}

Designed
from
+600
Clavicle
Scans^{+,4,5}



References: [†] DePuy Synthes Shape Verification Analyses, see reference 1. ^{*} Compared to Stryker VariAx 2 Clavicle System, Acumed Clavicle System and DePuy Synthes 3.5 LCP® Clavicle System. ^{**} Compared to Stryker VariAx 2 Clavicle System and Acumed Clavicle System. 3. Synthes Shape Verification Analysis - Lateral, 7/28/20 Windchill #0000290186 4. DePuy Synthes Engineering Analysis - Morphology of 600 Bones, 5/5/20 Windchill #0000294539. 5. Fontana AD, Hoen HA, Blauth M, et al. The variance of clavicle surface morphology is predictable: an analysis of dependent and independent metadata variables. JSES International, <https://doi.org/10.1016/j.jseint.2020.05.004>. 6. DePuy Synthes Benchmark Analysis - Staggered Screw Holes, 9/8/20 Windchill #0000294556. ^{***} Compared to DePuy Synthes 3.5 mm LCP® Superior Clavicle Plates. DePuy Synthes Benchmark Testing and Shape Analyses

H A N D & W R I S T SOLUTIONS



LCP™
DISTAL
RADIUS
PLATE



LCP™
EXTRAARTICULAR
DISTAL RADIUS
PLATE



VA-LCP™
VOLAR RIM
DISTAL RADIUS
PLATE



VA-LCP™
TWO-COLUMN
PLATE



VA-LCP™ DORSAL
DISTAL RADIUS
PLATES



VA-LCP™ EXTRA
LONG TWO-COLUMN
PLATE



VA-LCP™
HAND SYSTEM



HEADLESS
COMPRESSION
SCREW 2.4

VA-LCP™ HAND SYSTEM

The VA Locking Hand System addresses clinical needs for managing hand fractures with its Variable Angle locking technology and range of implant options. Design elements of the VA Locking Hand System were developed to deliver clinical and economic value to hospitals, surgeons, and patients.

VERSATILITY

- Plate Options:
 - 1.3 mm Locking Plates
 - 1.5 mm Variable Angle Locking Plates
 - 2.0 mm Variable Angle Locking Plates

The 1.3 mm Locking Plates in this system are the thinnest locking plates available in the market, and include anatomically pre-contoured plates

STRENGTH AND STABILITY WITH LOCKED PLATING

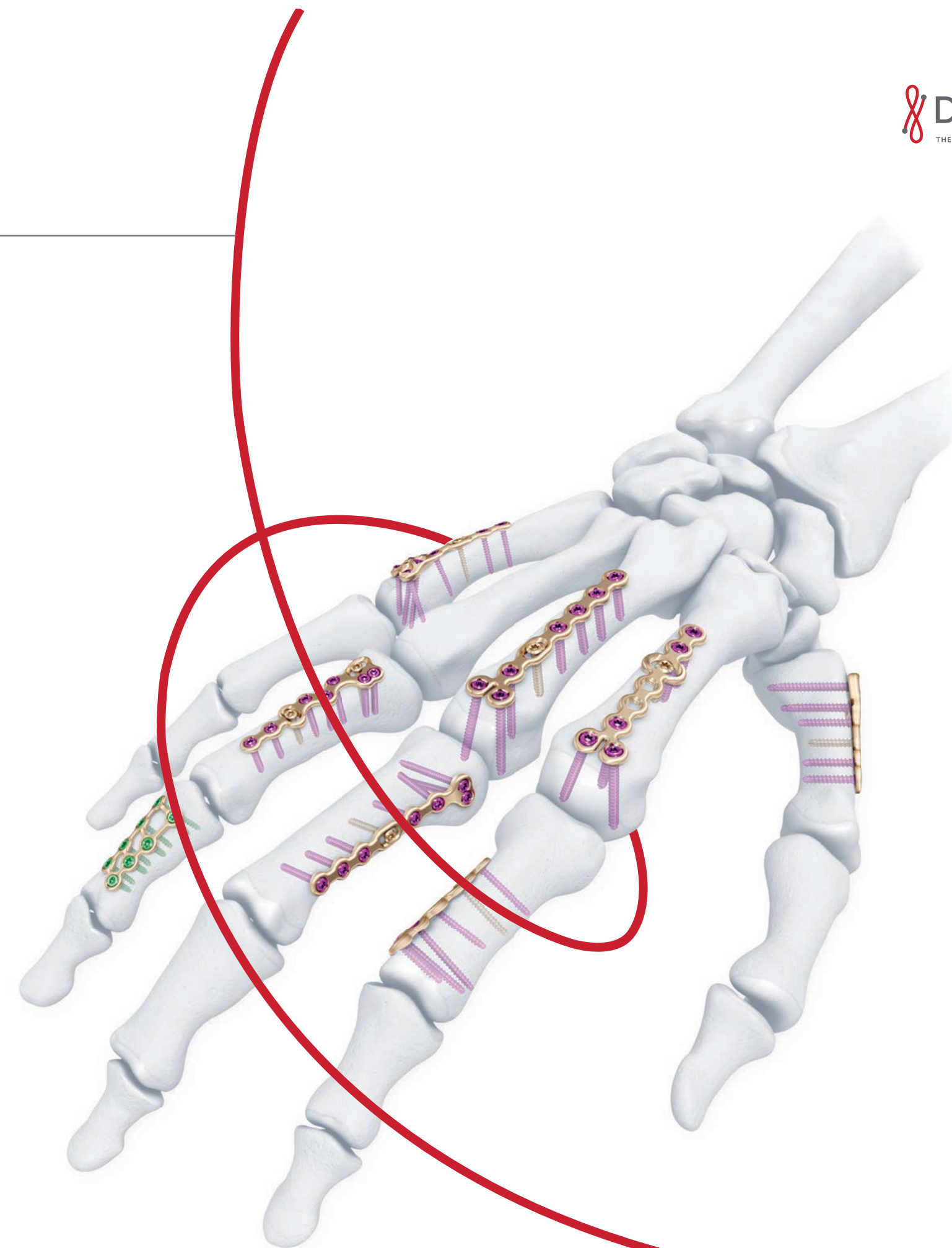
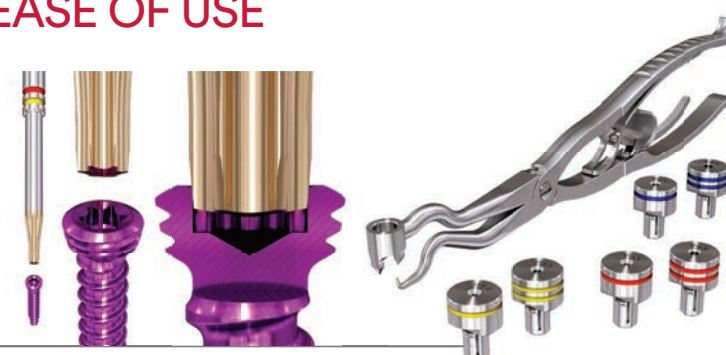
- Designed to provide fixed angle stability for metaphyseal and osteopenic bone
- Combines the advantages of locked plating with low-profile plating

Offers screw placement options in a variety of fragment patterns and around the joint



COMPREHENSIVE INSTRUMENTATION DESIGNED FOR EASE OF USE

- Color-coded instrumentation and modules ease identification and help reduce procedural complexity
- The Variable Angle Locking Hand System offers instrumentation to aid in fracture reduction, provisional fixation, plate adaptation, construct creation



VA-LCP™ VOLAR DISTAL RADIUS PLATE

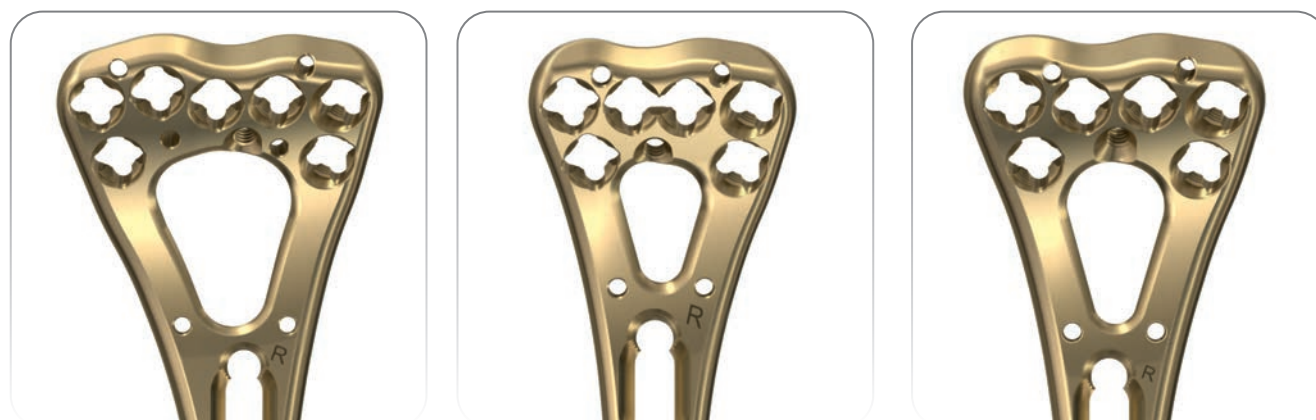
The 2.4 mm Variable Angle LCP™ Two-Column Volar Distal Radius Plate is part of the 2.4 mm Variable Angle LCP™ Distal Radius System. The plates are anatomically contoured to match the anatomy of the distal radius, and are designed to address both simple and complex fractures.

VA LCP™ TWO-COLUMN VOLAR DISTAL RADIUS PLATE 2.4

25.5 mm

19.5 mm

22.5 mm

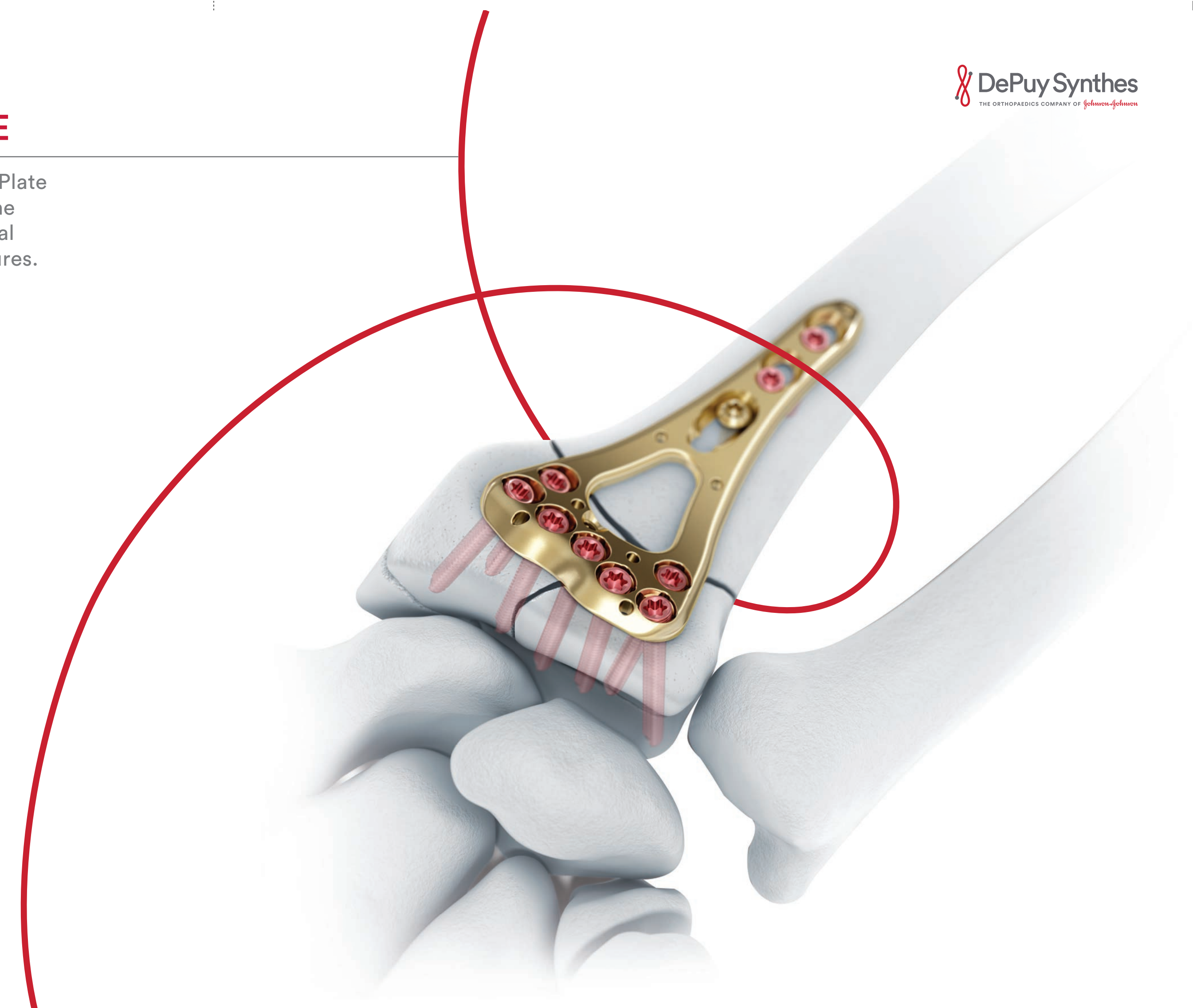


Multiple widths available to accommodate patient anatomy



Variable Angle technology enables flexibility of screw insertion trajectory within 30° cone

Anatomic shape designed to fit close to the volar ridge with rounded edges helping to reduce risk of soft tissue irritation



MATRIXRIB™ FIXATION SYSTEM

- Patented, anatomically contoured plates match unique geometry of ribs*
- Plates designed to match stiffness of cadaveric osteoporotic ribs allowing for flexibility of the rib cage
- First anterior plating system with nearly 10 years of clinical use
- First system to provide minimally invasive instrumentation for plate placement

* MatrixRIB Fixation System Patents: 8734492, 8313517, 7785355, 8740903

I N S T R U M E N T S



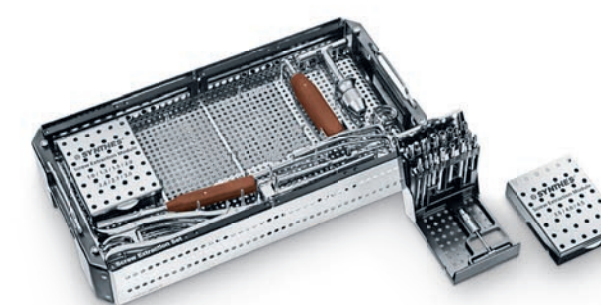
PELVIC ACETABULAR
INSTRUMENT SET



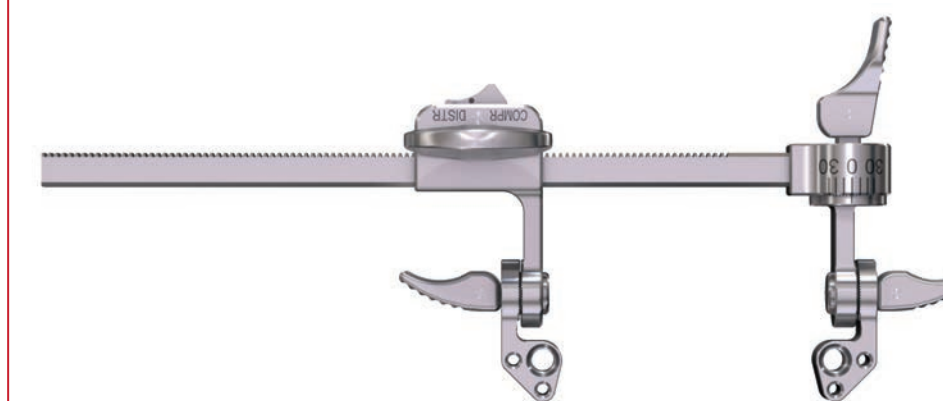
ONE-HAND
OPERABLE
CABLE TENSIONER



COLLINEAR
REDUCTION CLAMP



SCREW
EXTRACTION SET



ORTHOPAEDIC
FOOT INSTRUMENTS

PELVIC ACETABULAR INSTRUMENT SET

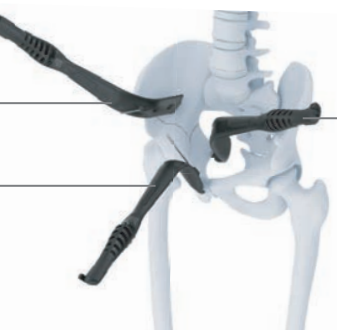
Instrumentation for Improved Visibility at the Surgical Site**1

- Carbon Fiber Retractors that can be left in place during fluoroscopy, minimizing steps required to re-establish exposure after C-Arm use.

IF – Radiolucent
Retractor for iliac fossa

QS – Radiolucent
Retractor for
quadrilateral surface

PF – Radiolucent
Retractor for superior
pubic ramus



Thru-blade
K-wire
feature



Oval mating
wire slot,
allowing toggle
for a 2.5mm wire



Channel for
optional
light strip

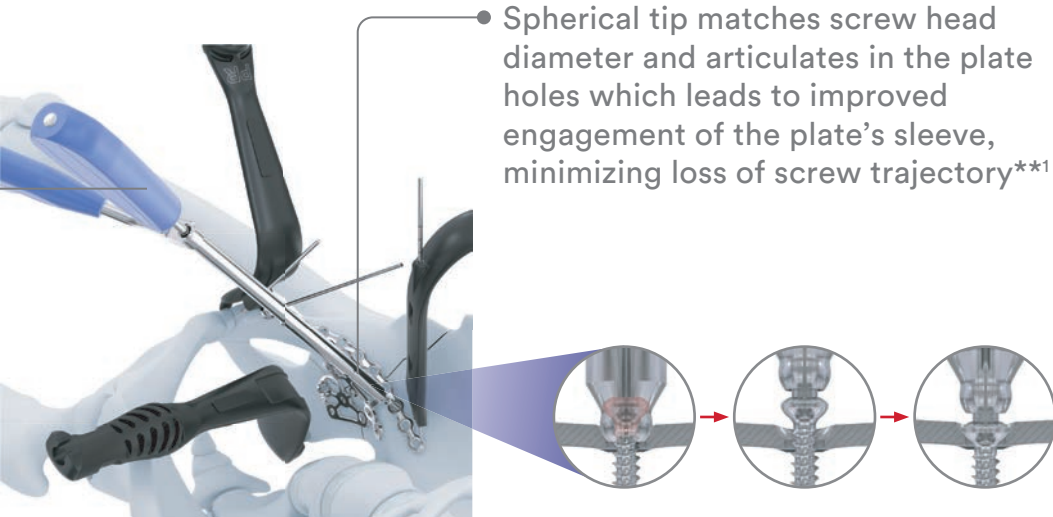


Notched tip

Improved Accuracy of Screw Placement**1

- Screw insertion concept where drilling, measuring, and insertion occurs through a single instrument which minimizes the risk of losing a screw or its trajectory.**1

Handles allow versatile hand
positions for in-line or offset
holding allowing a **direct view to
the surgical site**1**

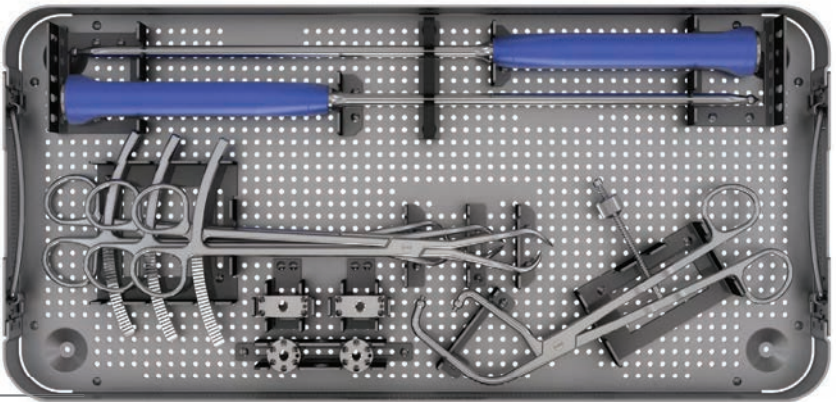


Spherical tip matches screw head
diameter and articulates in the plate
holes which leads to improved
engagement of the plate's sleeve,
minimizing loss of screw trajectory**1

Instrumentation that Facilitates Better Intraoperative Handling**1

Reduction Instruments

- The Intrapelvic Acetabular System provides a variety of different reduction instruments designed for the AIP approach.

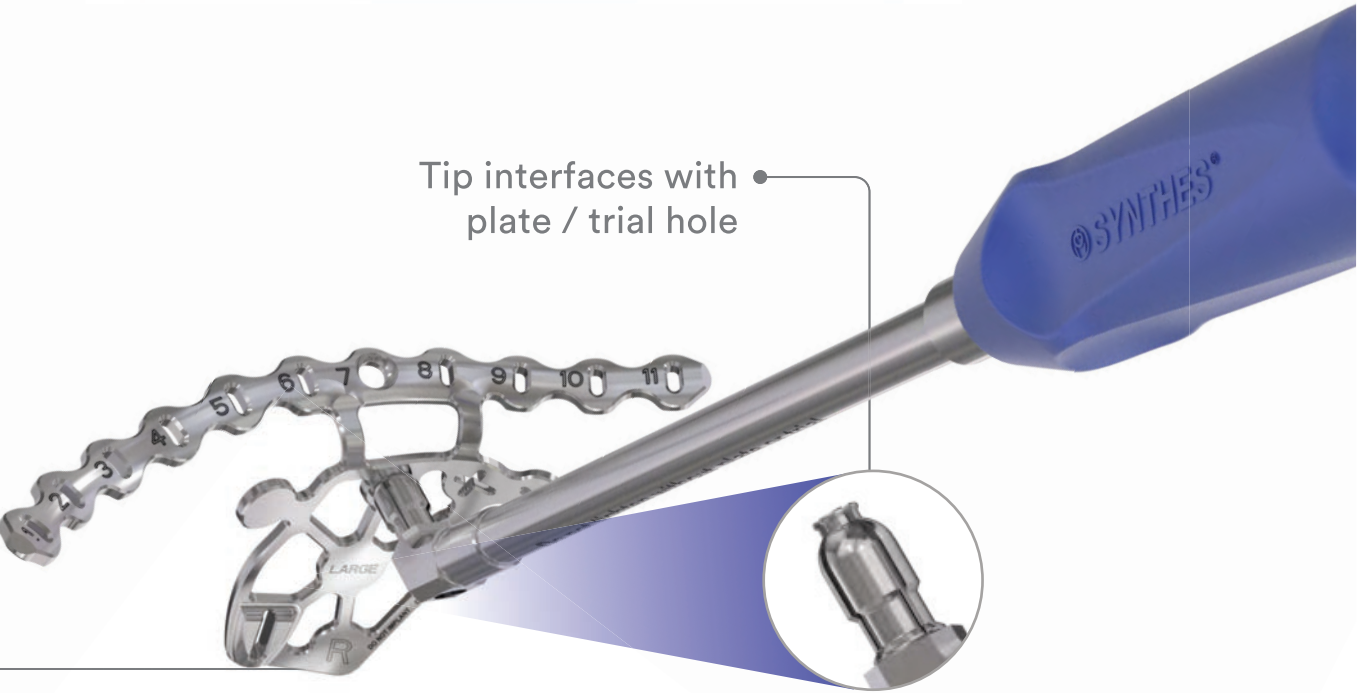


Sizing Trials

- Sizing Trials assist in identifying the most suitable plate size to match patient anatomy and accommodate the fracture pattern.

Plate Holder

- Facilitates sizing trial/implant insertion
- Provides a stable connection with the plate or sizing trial



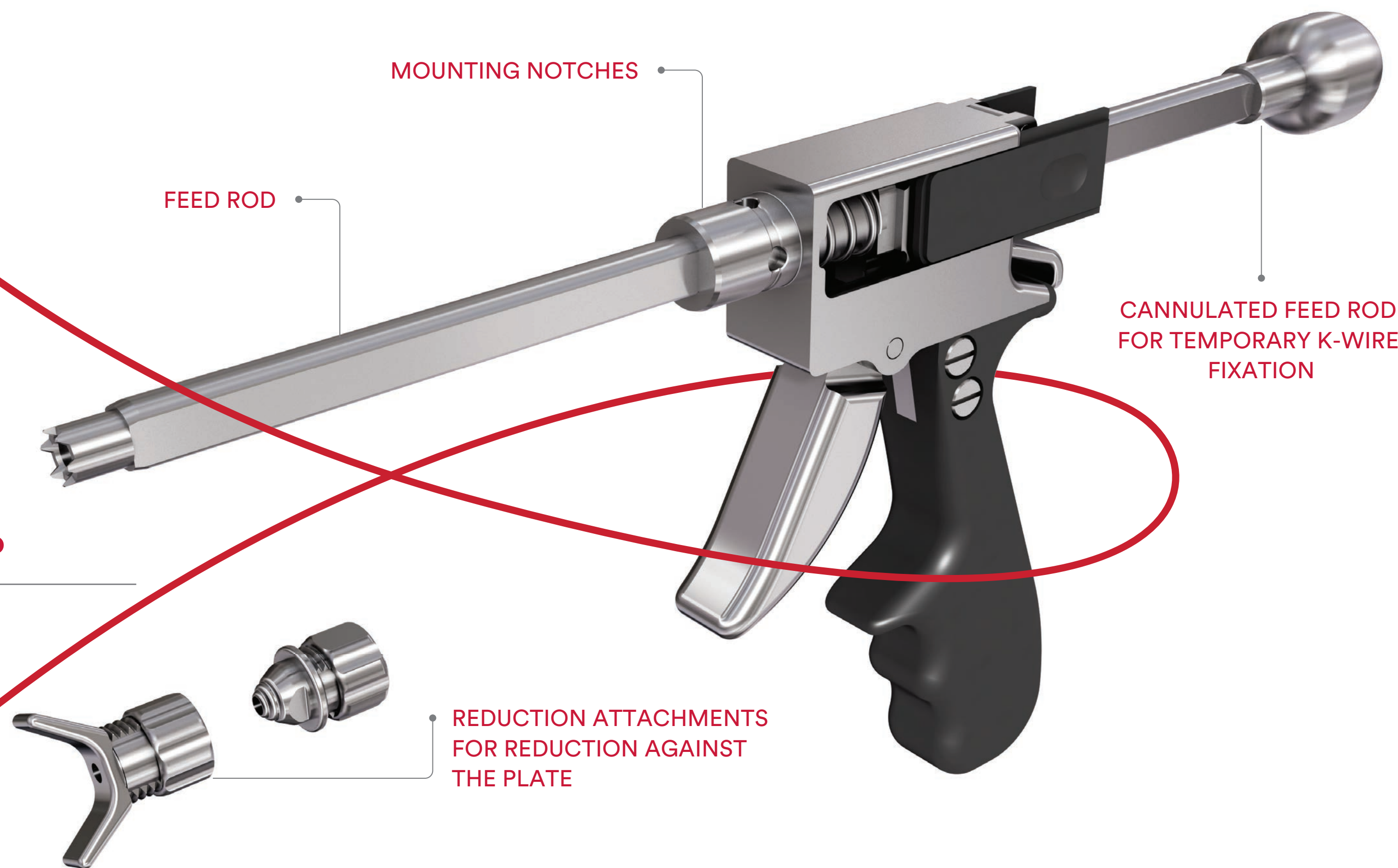
Ex-situ and In-situ Bending Instruments

- The Intrapelvic Acetabular plates can be fine-tuned to achieve anatomic fit with less bending effort than comparative plates.*2



COLLINEAR REDUCTION CLAMP

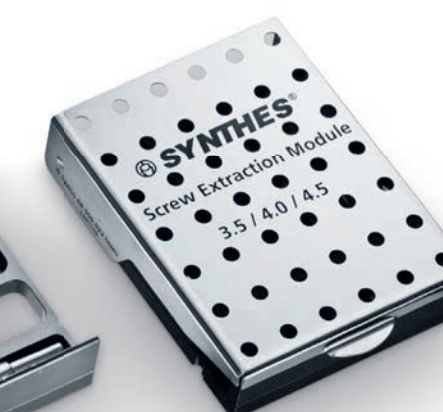
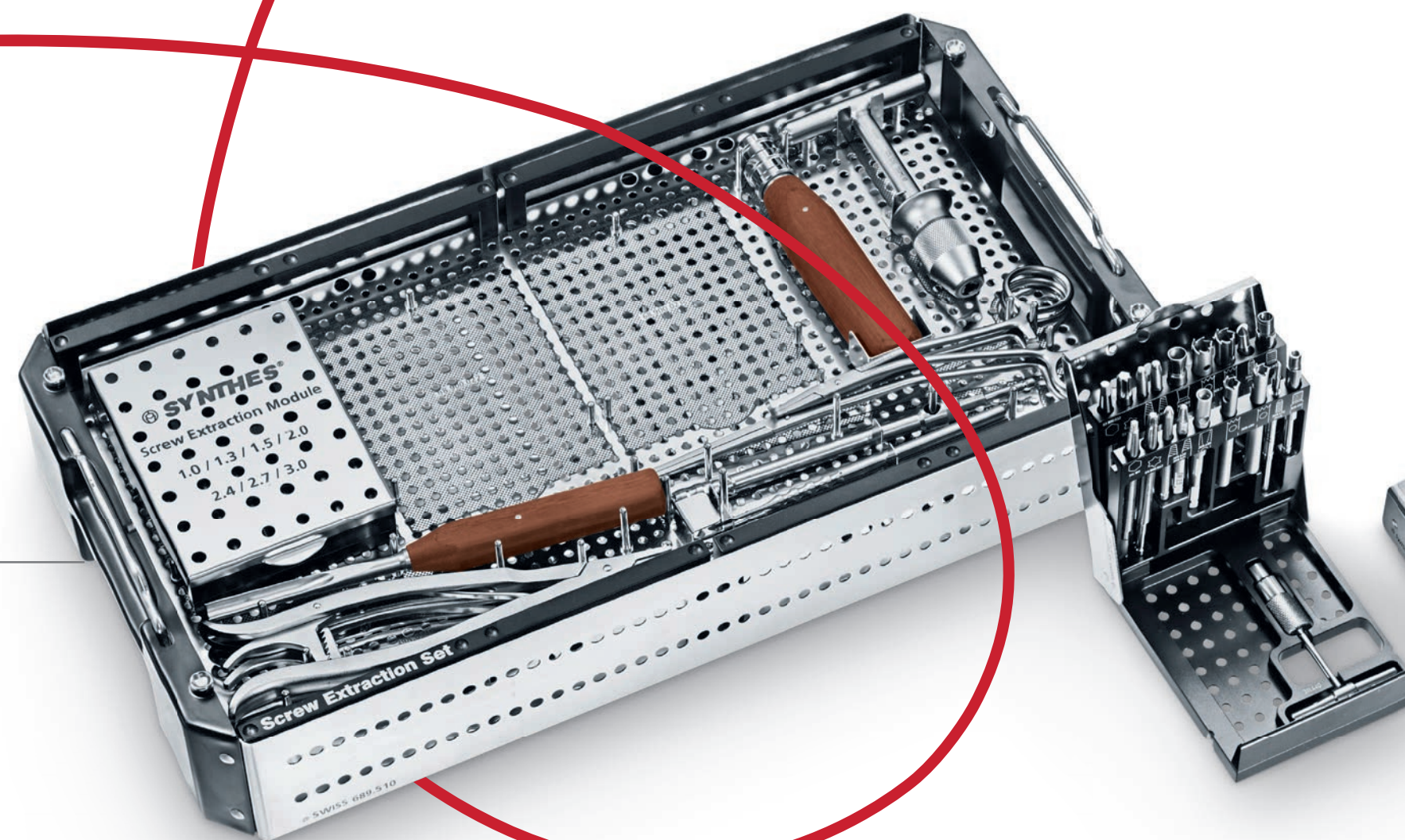
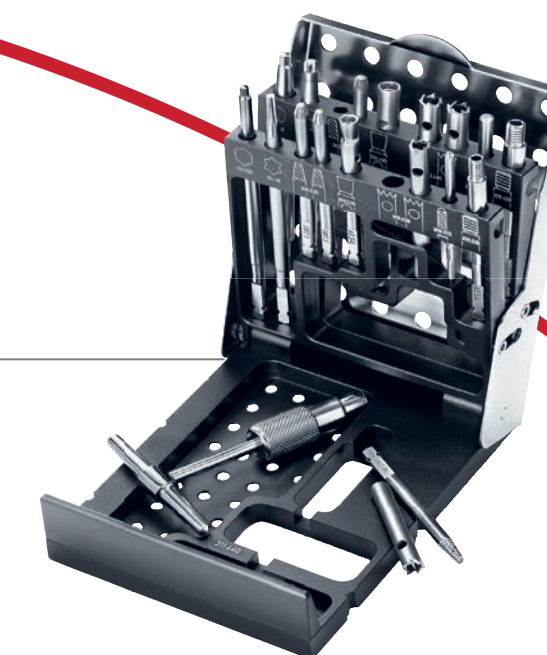
For minimally invasive fracture reduction.



SCREW EXTRACTION SET

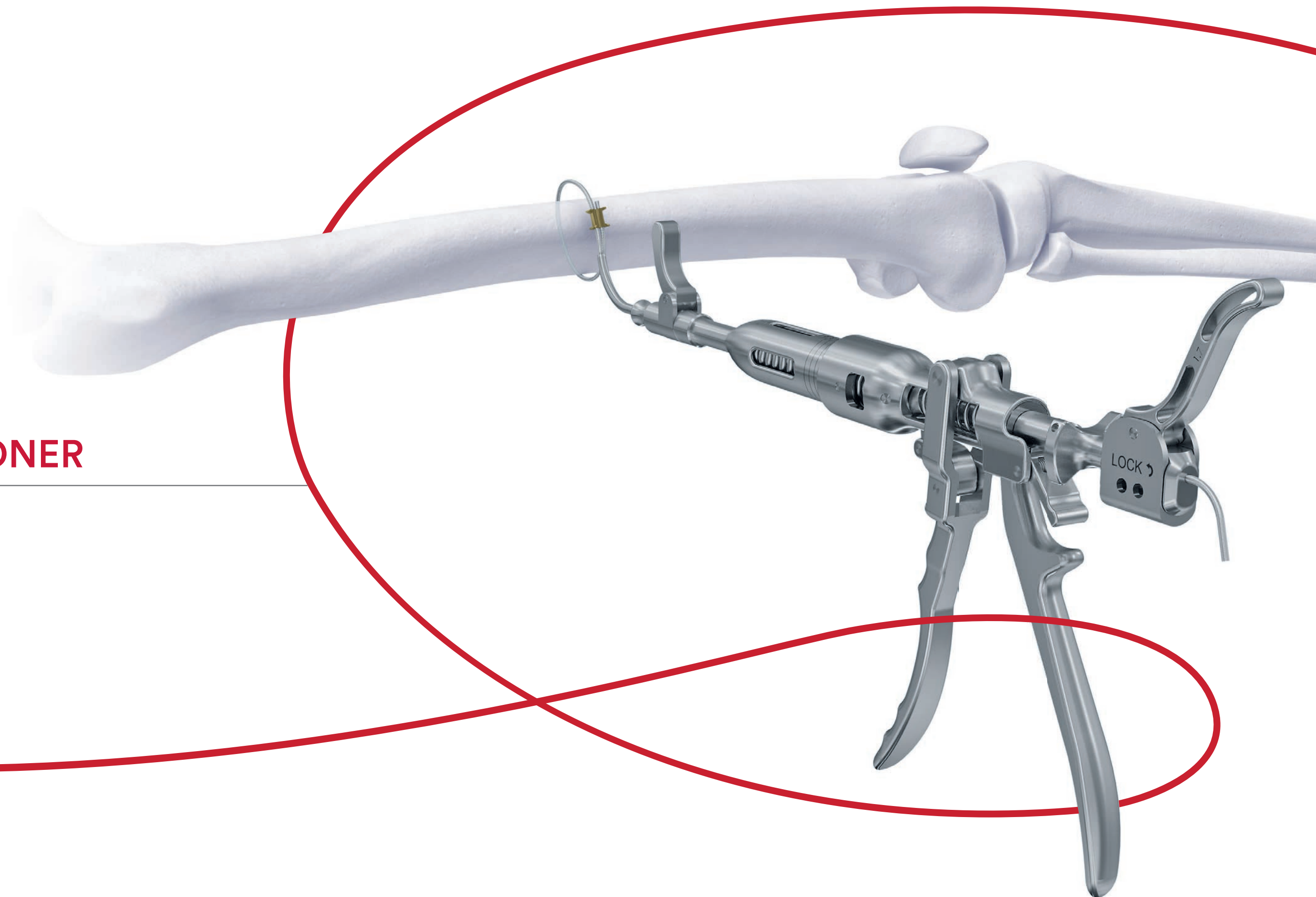
The Screw Extraction Set contains instruments required for removing intact screws or damaged screws that are difficult to remove

- Screw extraction module for screws 3.5/4.0/4.5
- Screw extraction module for screws 5.0/6.0/6.5/7.0/7.3



- Locking Screws
- Locking Bolts

ONE-HAND OPERABLE CABLE TENSIONER

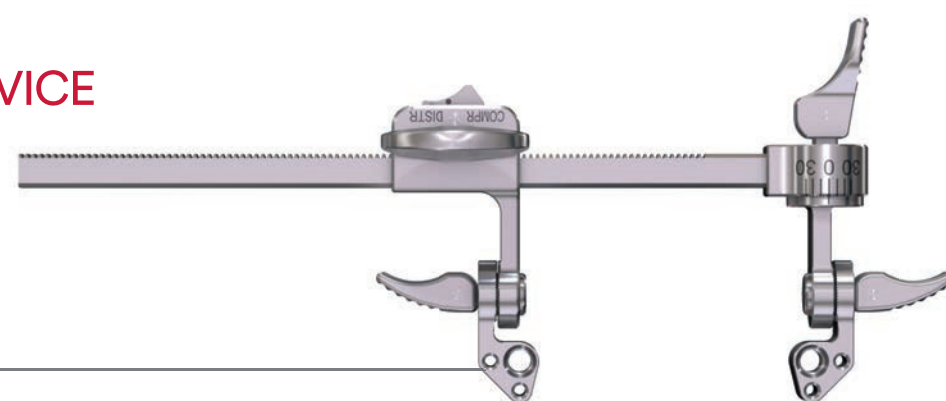


ORTHOPAEDIC FOOT INSTRUMENTS

Instruments for Reconstructive Orthopaedic Surgery

- The Orthopedic Foot Instruments have been designed to perform specific procedures on the foot more efficiently
- The system consists of three modular sets: Compression/Distraction Device Set, Bone Harvesting Set and Chisel Set

COMPRESSION/DISTRACTION DEVICE



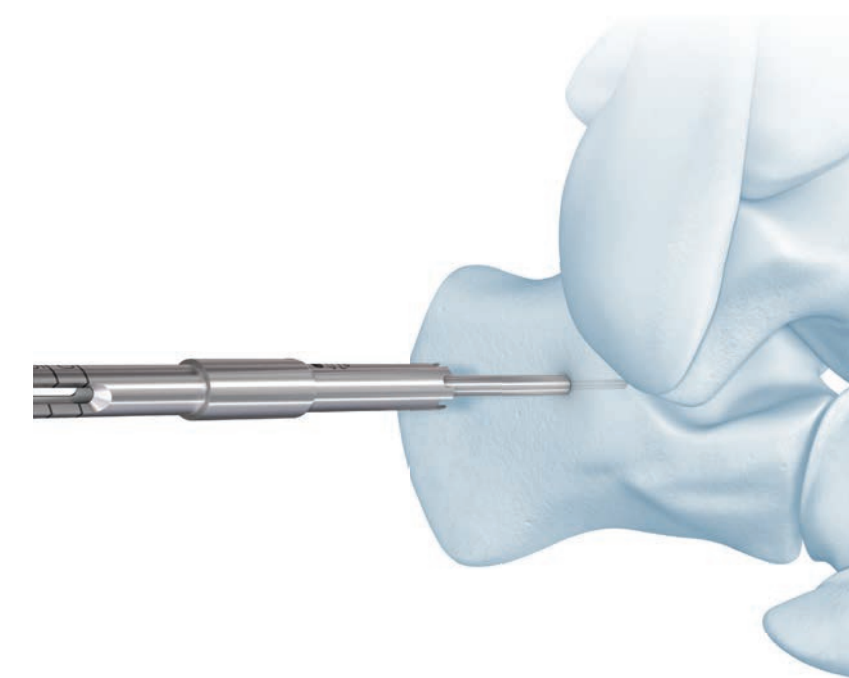
JOINT PREPARATION SET

- Dedicated chisel instruments for Foot & Ankle surgery
- Available in three different shapes and a curve-shaped cartilage remover for precise joint preparation



PERI-ARTICULAR REDUCTION FORCEPS

Option for maintaining the reduction depending on the fracture configuration



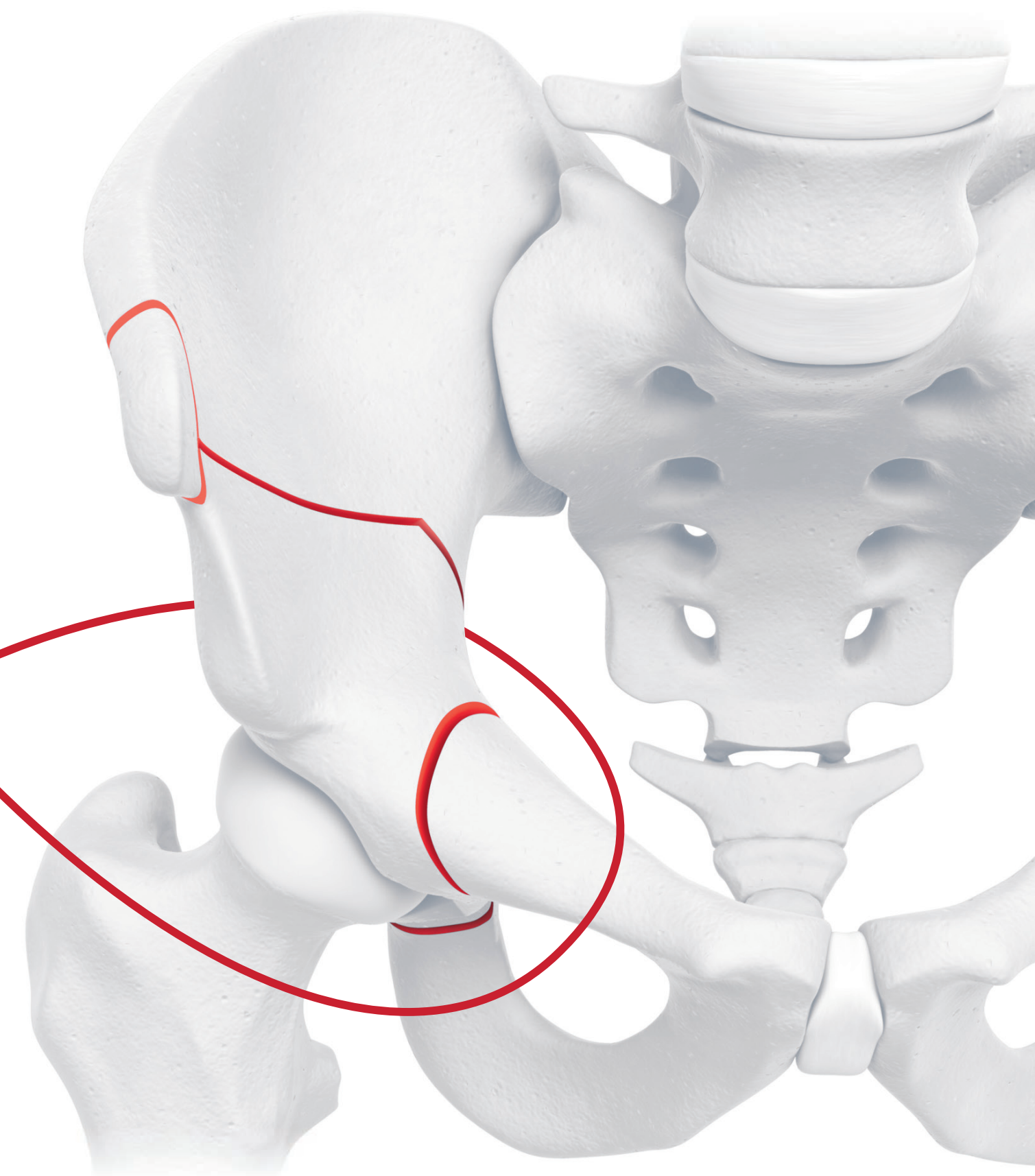
BONE HARVESTING SET

- Specifically designed for bone harvesting or bone biopsies in the Foot & Ankle
- Makes it easier to obtain autogenous cancellous bone
- Available in seven different diameters allowing for accurate bone grafting in various anatomies.

HIP PRESERVATION SURGERY SET

A set for Hip Preservation Surgery to assist with periacetabular osteotomy and hip impingement procedures

- The set for Hip Preservation Surgery contains retractors, osteotomes, chisels, and femoral head templates to assist the surgeon with periacetabular osteotomy and hip impingement procedures



UNIVERSAL SMALL FRAGMENT

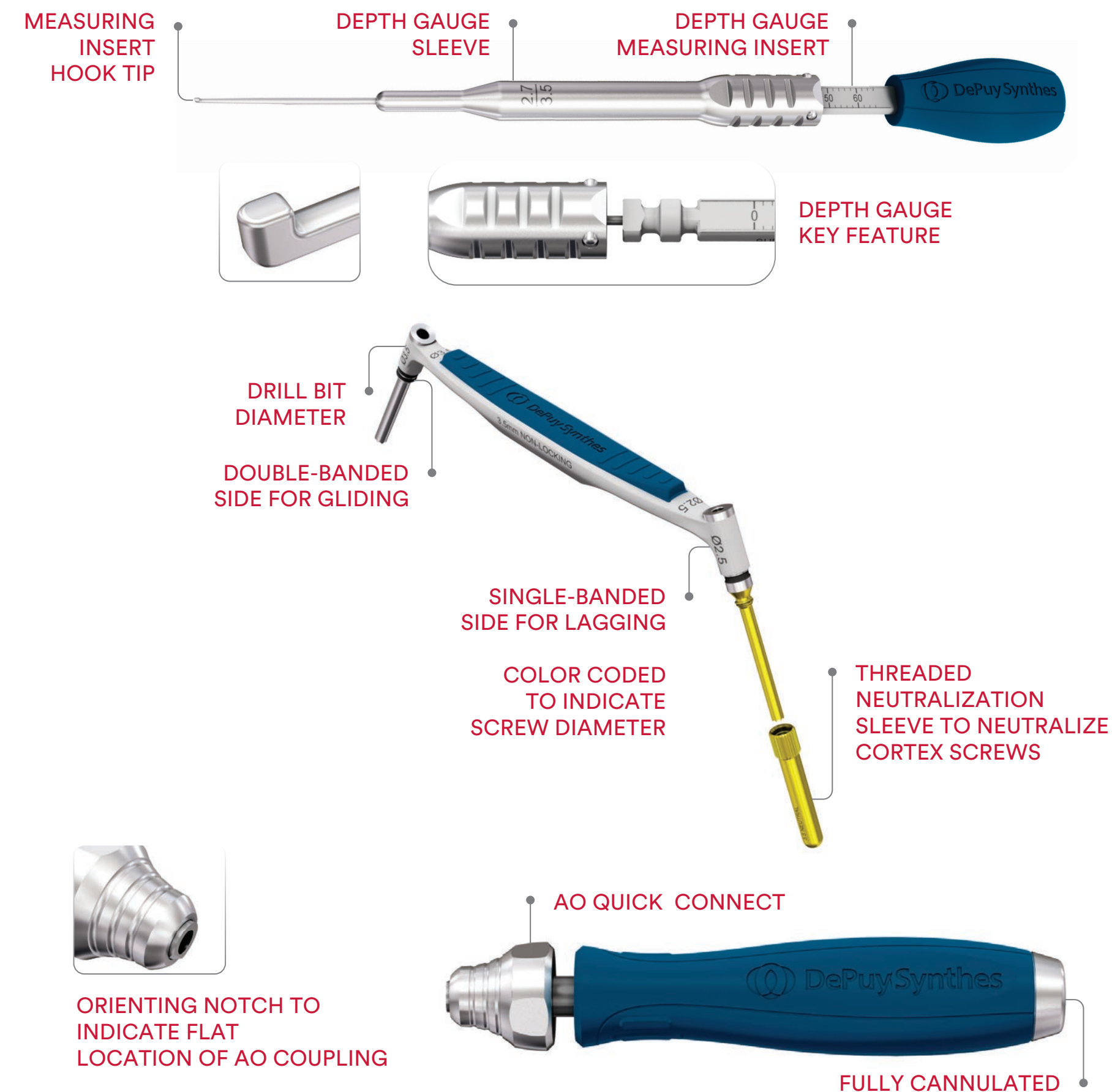
2.7 mm/3.5 mm non-locking,
locking, and Variable Angle
locking technology

- Instruments designed for this system may be used in place of previously designed instruments without change to surgical technique

SUSTAINABLE SOLUTION

- First trauma platform to receive Earthwards recognition for providing a more environmentally sustainable solution[∞]

[∞] The Universal Small Fragment System is an Earthwards® recognized product. Reductions are in comparison to the existing DePuy Synthes systems and derived using reference sterilization values. Earthwards® is the Johnson & Johnson approach for developing innovative and more sustainable products.



POWER TOOLS

UNIUM™ SYSTEM



BATTERY
POWER LINE II



BATTERY
POWER LINE II



COMPACT
AIR DRIVE II



ELECTRIC
PEN DRIVE / AIR PEN DRIVE



UNIUM™ SYSTEM

Designed with a commitment to ergonomics, reliability and efficiency, so the focus remains on the patient, without distraction.^{1,2}

One system for use in trauma, sports medicine, spine and cardiothoracic surgery.¹

ERGONOMICS

- Improved comfort and control^{*1,3}
 - Intuitive user interfaces, fast set-up¹
 - Compact design – lower weight and reduced size^{1,2,4}
 - +18% power for demanding procedures²
 - Well-balanced and natural fit in the hand¹

RELIABILITY

- Extended lifespan for decreased cost of repair and waste⁵
 - Electronics protected from reprocessing⁵
 - Long-lasting Li-Ion battery⁶
 - Powerful and durable brushless motor²
 - High quality materials

EFFICIENCY

- The Power of One: simplicity and cost efficiency¹
 - One Power Tool for Small Bone and Trauma applications¹
 - One Power Unit drives both handpieces
 - One set of cutting tools, attachments and a charger that are backwards compatible
 - One tool for synergies in reprocessing, education and service¹



* Compared to Colibri II / SBD II

References: 1. DePuy Synthes Power Tools. Design Validation Report 07/2021 Windchill Ref. #0000310897. 2. DePuy Synthes Power Tools. Internal Engineering Report 07/2021 Windchill Ref. #0000312221. 3. Global Data Medi Point. Orthopedic Power Tools - Global Analysis and Market Forecasts 06/2014 Ref. #GDME207MAR. 4. DePuy Synthes Power Tools. Internal Engineering Report 07/2021 Windchill Ref. #0000312223. 5. DePuy Synthes Power Tools. Internal Engineering Report 07/2021 Windchill Ref. # 0000312309. 6. DePuy Synthes Power Tools. Internal Design Report 05/2017, Windchill Ref. #0000267178

COMPACT AIR DRIVE II

A universal power tool system covering the surgical procedures in trauma interventions.

- Powerful system with compact, ergonomic, lightweight design allows comfortable working¹
- Pure mechanical design allowing increased reliability and lifespan²
- Reduced investment costs compared to battery driven Power Tools³

References: 1. DePuy Synthes Power Tools. Internal Engineering Report 07/2019, Windchill Ref. #0000288306 2. DePuy Synthes Power Tools. Internal Engineering Report 07/2019, Windchill Ref. #0000288305; Product Drawing 06/2020, Agile #Ref. SE_526417; Global MILLENNIUM RESEARCH GROUP, INC. Market Research Report DRG Powered Surgical Instruments 03/2014 Ref. #RPL21PS14 3. Global MILLENNIUM RESEARCH GROUP, INC. Market Research Report DRG Powered Surgical Instruments 03/2014, Ref. RPL21PS14, Global Data Medi Point Market Research Report 2014, Ref. #GDME207MAR



BATTERY POWER LINE II

The BPL II platform has been developed for joint reconstruction surgery, yet is flexible to address orthopaedic surgical needs.

- Three dedicated handpieces for demanding applications, efficiency and reliability¹
- Most powerful system within the DePuy Synthes Power Tools portfolio for high reaming and cutting efficiency²
- Dedicated pin driver allows convenient fixation of cutting blocks³

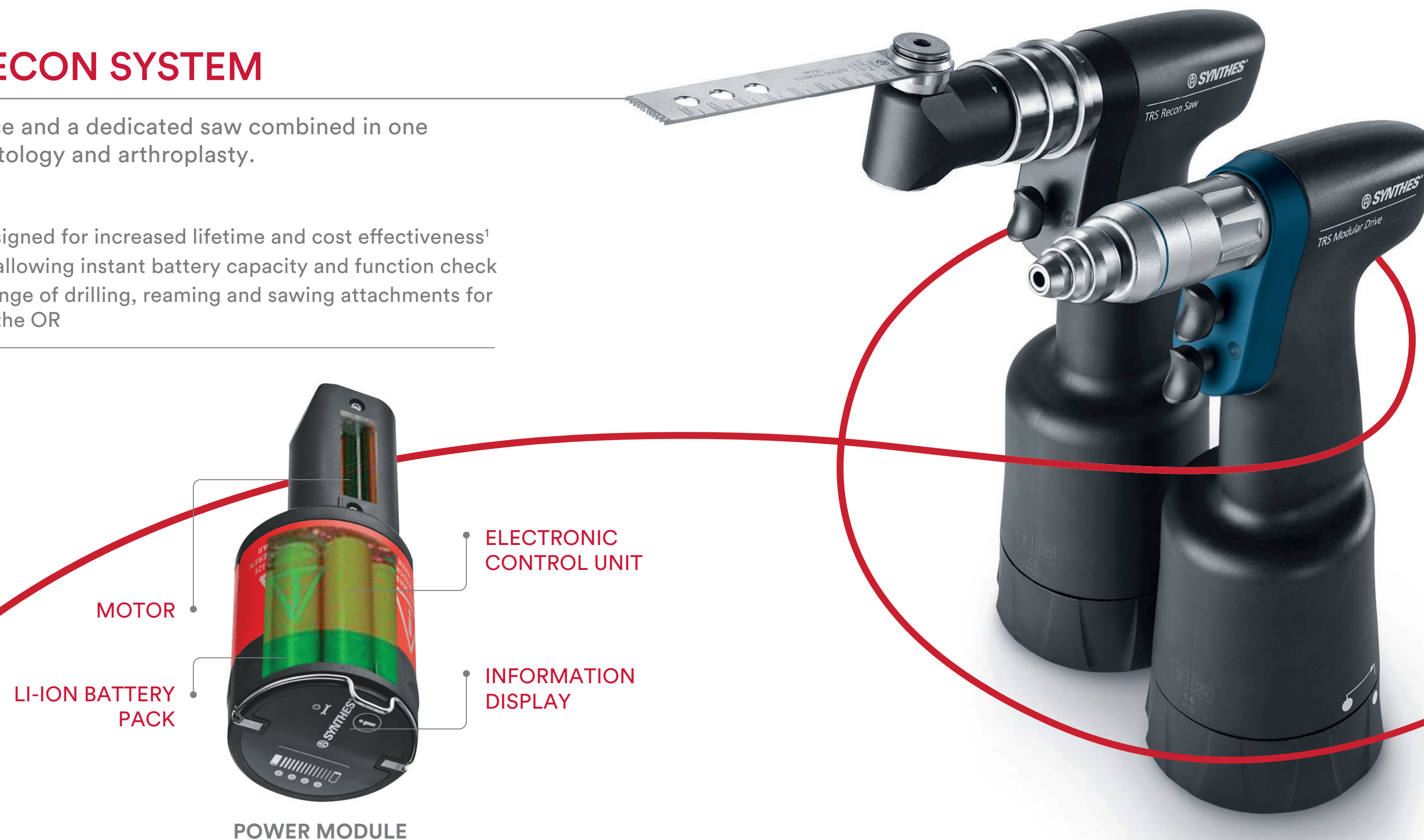


References: 1. DePuy Synthes Power Tools. Internal Engineering Reports 06/2012, Ref. TR20120015, TR20120039, TR20120021, TR20120023, TR20120042, TR20120040; Clinical Evaluation Report 09/ 2017, Windchill Ref. #0000062913 2. DePuy Synthes Power Tools. Internal Engineering Report 06/2019, Windchill Ref. #0000287872 3. DePuy Synthes Power Tools. Internal Validation Report 07/2014, Windchill Ref. #0000156556

TRAUMA RECON SYSTEM

A modular headpiece and a dedicated saw combined in one platform for traumatology and arthroplasty.

- Power Module designed for increased lifetime and cost effectiveness¹
- Intelligent design allowing instant battery capacity and function check
- Comprehensive range of drilling, reaming and sawing attachments for more flexibility in the OR



References: 1. DePuy Synthes Power Tools. Internal Engineering Report 05/2018, Windchill Ref. #0000275217

ELECTRIC PEN DRIVE AIR PEN DRIVE

The EPD/APD platform offers high speed and precision for maxillofacial and extremity surgeries.¹

- One pen for drilling, burring, sawing, screwing and k-wires setting applications
- Comprehensive portfolio of cutting tools designed to support surgical procedures
- Foot pedal and hand switch options for more versatility during surgery



References: 1. DePuy Synthes Power Tools. Clinical Evaluation Reports 08/2019, Windchill Ref. #0000211619 and 09/2019, Windchill Ref. #0000251062