

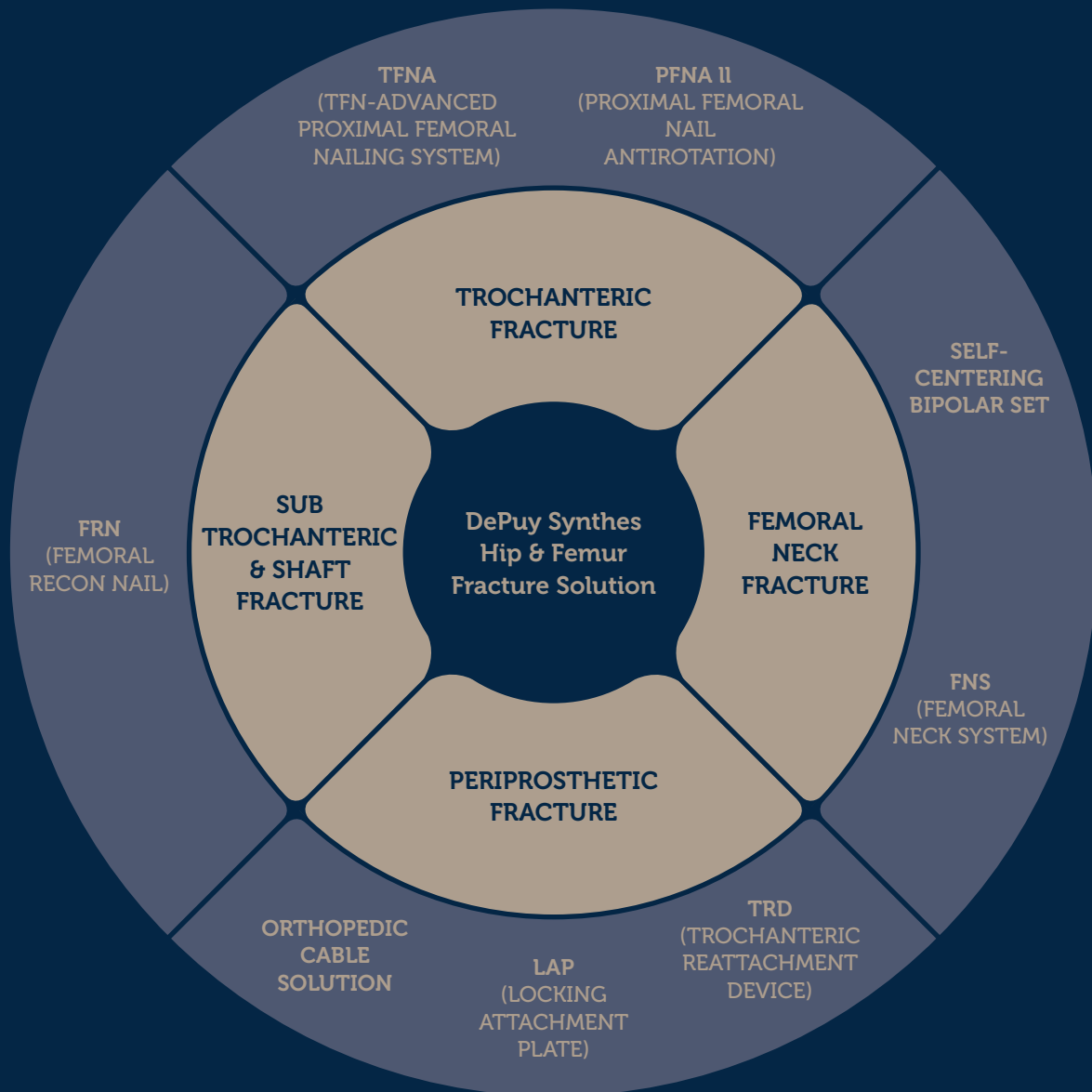


HIP & FEMUR FRACTURE SOLUTION

for **you** and **your patients**

Hip & Femur Fracture Solution

The **DePuy Synthes** Companies have been innovating and discovering for over 100 years, a history of innovation, of working with some of the greatest minds in the industry and of making a difference in the lives of tens of millions of patients around the world. We have continuously dedicated to provide broadest portfolio of best in class products and services, unparalleled expertise to serve you better for hip and femur fracture.

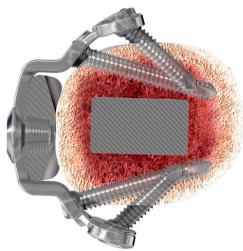


3.5MM LOCKING ATTACHMENT PLATE

As an alternative to cerclage cables, the 3.5mm Locking Attachment Plate (LAP) preserves the periosteal blood supply and bypasses a prosthesis stem with an angular stable solution.

PROVIDES STIFF, BICORTICAL FIXATION FOR INCREASED ROTATIONAL STABILITY

- LAP provides a stronger, stiffer construct than an orthopedic cable
- Locking capability advantageous in osteopenic bone where screw purchase is compromised
- Contourable to accommodate patient's anatomy



CROSSECTIONAL VIEW

COMPATIBLE WITH EXISTING DEPUY SYNTHES 4.5MM LCP PLATES

- Attaches to plate via a dedicated connection screw at the locking hole of the plate
- Available in 4-hole and 8-hole, in titanium

4 holes



8 holes



Size Range

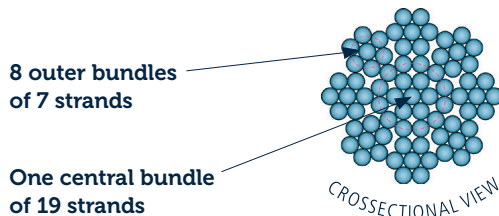
Implants	Holes	Materials
3.5 mm Locking Attachment Plates, for 4.5 / 5.0 mm LCP Plates	4, 8	Titanium

ORTHOPAEDIC CABLE SOLUTIONS

Comprehensive surgical options for cerclage fixation in reconstruction and trauma procedures

CABLES FEATURE A UNIQUE WEAVE DESIGN TO ALLOW FOR GREATER FLEXIBILITY AND CONTROL

- 1.0 / 1.7 mm diameter, available in Titanium Alloy(TAN) crimp and L605 cobalt chromium alloy with titanium crimp



Cable Positioning Pins

- Secures cable to the plate and prevents cable migration



TROCHANTERIC REATTACHMENT DEVICE OPTION(TRD)

For reattachment of the greater trochanter following osteotomy in total hip arthroplasty or fracture

- Large proximal hooks grip the greater trochanter, securing its location while resisting superiorly directed forces
- Preassembled with 1.7 mm CoCr cables and titanium crimps
- Crimps reside in plate for easy access, handling, and cable alignment
- Available in TAN and in two lengths

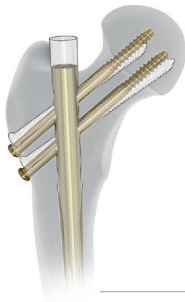




FEMORAL RECON NAIL(FRN)



ANATOMICAL FIT

LOWER PROXIMAL NAIL PROMINENCE

- Short proximal nail end designed to reduce risk of nail prominence compared to nails with a longer nail



 Simulated Competitor PF
 DePuy Synthes PF Femoral Recon Nail

 Simulated competitor nail with 1.5m ROC
 FRN with 1.0m ROC

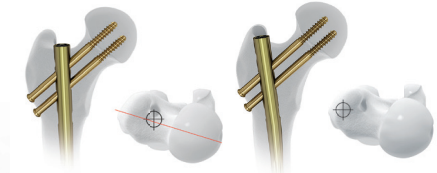
ANATOMIC 1.0M RADIUS OF CURVATURE (ROC)

- 1.0m anatomic bow designed to help avoid impinging anterior cortex compared to nails with larger radius of curvature

CHOICE OF ENTRY POINTS

PIRIFORMIS FOSSA OR GREATER TROCHANTER

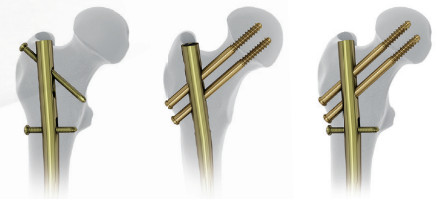
- Accommodates surgeon preference



EXTENSIVE LOCKING OPTIONS

PROXIMAL LOCKING

- Choice of standard locking, reconstruction locking or combined with proximal dynamization option



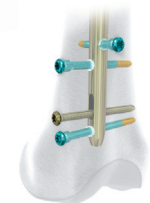
DISTAL LOCKING

Four locking options including:

- An A/P hole
- Distal dynamization option
- An oblique distal locking hole offset 10 degrees



Compatible with ANGULAR STABLE LOCKING SYSTEM (ASLS)



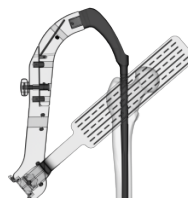
IMPROVED INSERTION HANDLE



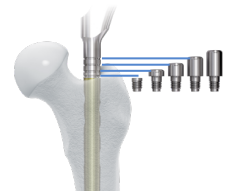
SMALLER, LONGER BARREL



RADIOLUCENT HANDLE



MARKERS ON INSERTION HANDLE



Feature & Specification

Entry Points

- Greater Trochanter (5° lateral angle)
- Piriformis Fossa

Materials

- Titanium Alloy* (TAN)

Diameters

- Distal Diameters: 9, 10, 11, 12 and 14 mm, cannulated
- Proximal Diameters: 9-12 mm nails - 13 mm
- 14 mm diameter nails - 14 mm proximal diameter

Lengths

- 9, 10 mm distal diameter: 280-480 mm (20 mm increments)
- 11, 12, 14 mm distal diameter: 300-480 mm (20 mm increments)

Cross Section

- 9, 10 mm nails non-fluted
- 11, 12, 14 mm nails fluted

Proximal Locking (4 holes)

- One antegrade locking: 140° for GT Nails, 135° for PF Nails
- One dynamic transverse locking slot with controlled dynamization of
- Two 130° CCD recon locking holes

Distal Locking (4 holes)

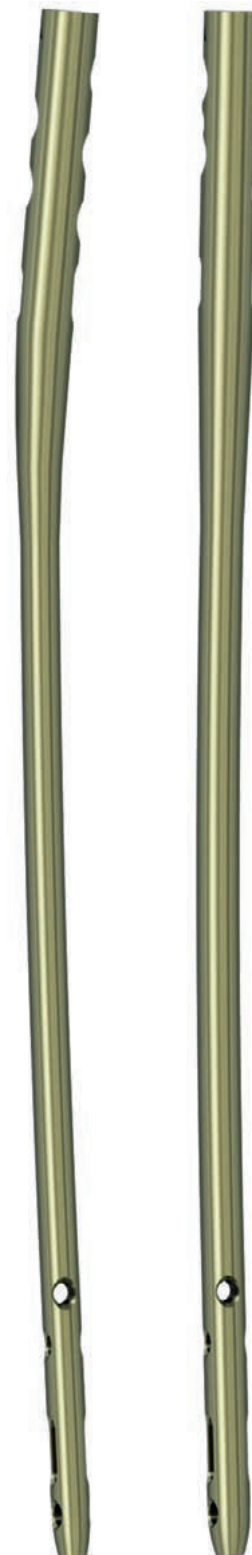
- One static locking hole (AP)
- One static transverse locking hole (LM)
- One dynamic transverse locking slot with controlled dynamization of
- One 10° offset locking hole, from superior, anterior lateral to posterior

Screw Compatibility

- All nails use 5.0 mm titanium locking screws (green)
- All nails use 6.5 mm titanium recon screws (yellow)

Features

- Anterior Posterior bend - 1 m radius of curvature
- Anatomic 14° anteversion
- Nail designs for left and right femurs



Surgical Technique



Ask DPS sales consultant for more information about available implant option.

TFN-ADVANCED PROXIMAL FEMORAL NAILING SYSTEM(TFNA)

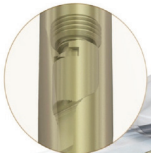
IMPROVED FIT AND STRENGTH

LATERAL RELIEF CUTTMM & SMALL PROXIMAL DIAMETER

- Preserves bone in insertion area due to reduced critical width

PREASSEMBLED LOCKING MECHANISM

- Static or rotational locking options that can be selected intraoperatively.

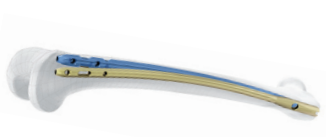
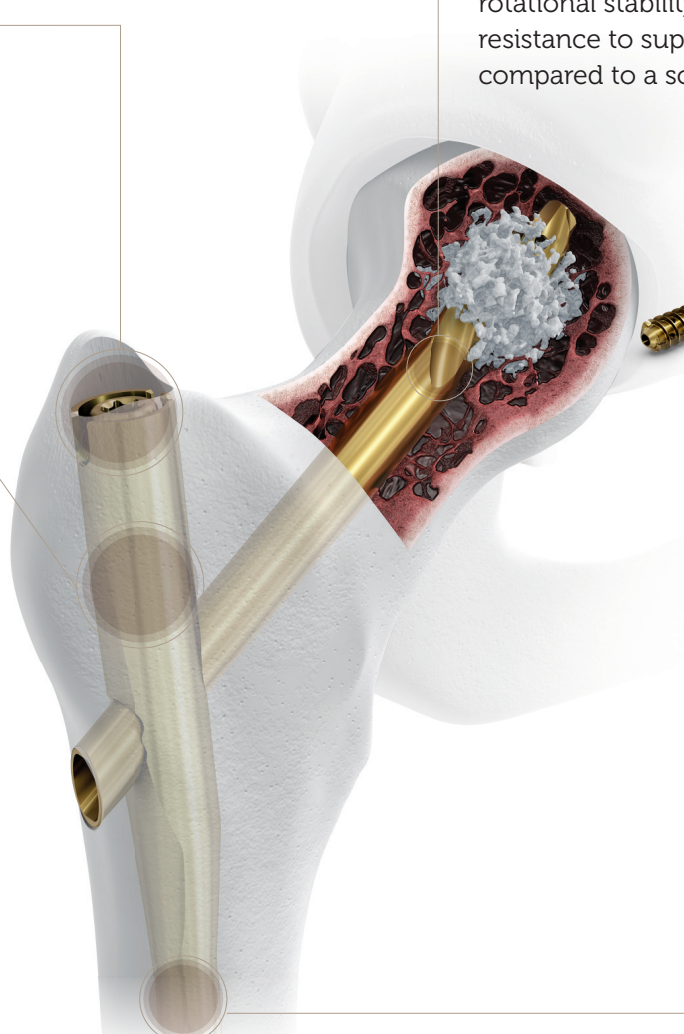


CHOICE OF HEAD ELEMENTS

- Designed to improve implant anchorage, provide greater rotational stability and greater resistance to superior load when compared to a screw.



Screw, Helical blade and Augmentation Options



ANATOMIC 1.0M RADIUS OF CURVATURE

- Simulated nail with 1.5m ROC
- TFNA with 1.0m ROC

- Mean total surface area of nail protrusion is 29% less than Competitor

Feature & Specification

Features of the long 9 mm-14 mm Cannulated Nails, 300 mm-480 mm lengths (20 mm increments)

- Proximal diameter of 15.66 mm
- Anatomic 5° lateral angle
- Distal diameters of 9 mm, 10 mm, 11 mm, 12 mm, and 14 mm
- Preassembled locking mechanism for controlling blade rotation and amount of blade travel
- Anterior Posterior bend-1.0 m radius of curvature
- Static or dynamic interlocking with controlled dynamization of 10 mm
- Anatomic 10° anteversion
- Third distal locking hole is 10° offset from superior, anterior lateral to posterior medial
- Nail designs for both left and right femurs

Materials

- Ti-15Mo (TiMo)

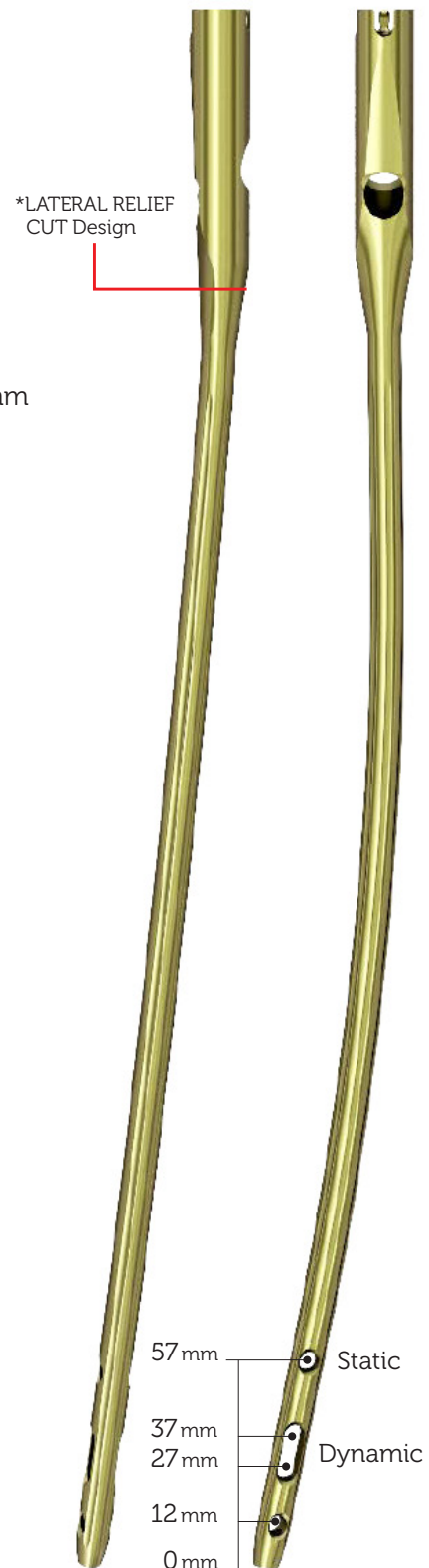
Angles

- 125°, 130° and 135°

Distal locking

- 5.0mm locking screws with STARDRIVE Recess

TFNA Nail Dia.	LATERAL RELIEF CUT™ Design*
9 mm	13.4 mm
10 mm	13.7 mm
11 mm	14.1 mm
12 mm	14.5 mm
14 mm	15.2 mm



- Ask DPS sales consultant for more information about available implant option.

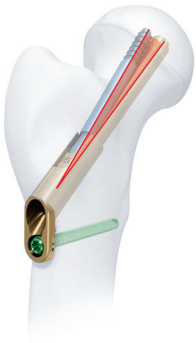


FEMORAL NECK SYSTEM(FNS)

ENHANCED FIXATION IN A COMPACT DESIGN

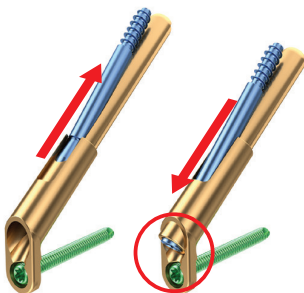
ROTATIONAL CONTROL

- The FNS has up to a **40% increase in rotational stability** when compared to a sliding hip screw system



GUIDED COLLAPSE

- With a compact design, FNS is intended to **minimize invasiveness** on the patient including up to 20 mm of guided collapse without lateral protrusion for the first 15mm of the bolt



STREAMLINED PROCEDURE

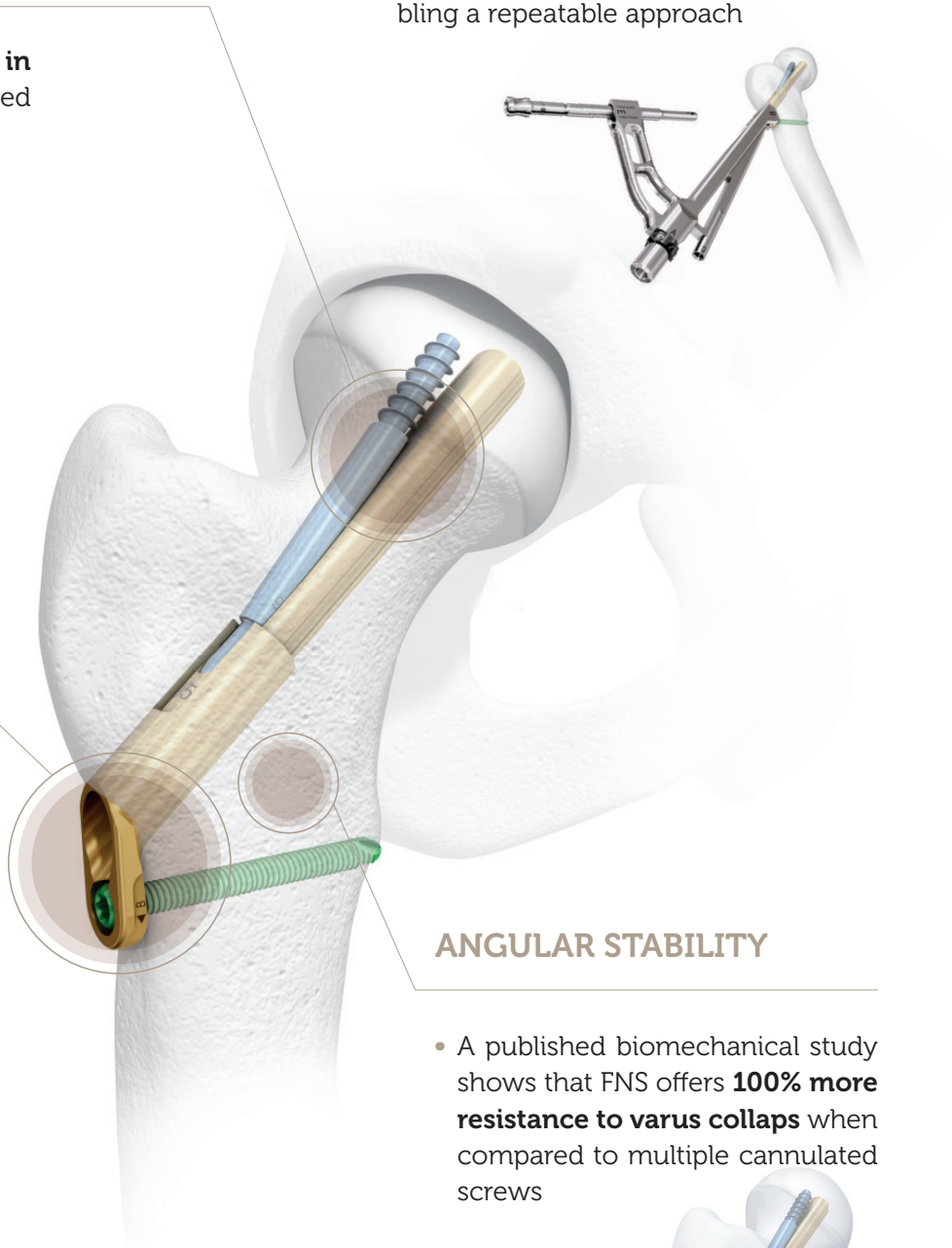
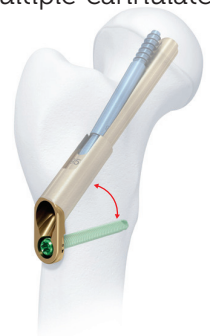
TARGETED INSERTION HANDLE

- All steps of the procedure can be completed after placement **of one central guide wire** into the femoral head, enabling a repeatable approach



ANGULAR STABILITY

- A published biomechanical study shows that FNS offers **100% more resistance to varus collapse** when compared to multiple cannulated screws



Feature & Specification

Plate

- 130° CCD angle
- Material: Ti-6Al-7Nb (TAN)
- Color: Gold
- Lengths: 1-hole and 2-hole

Bolt

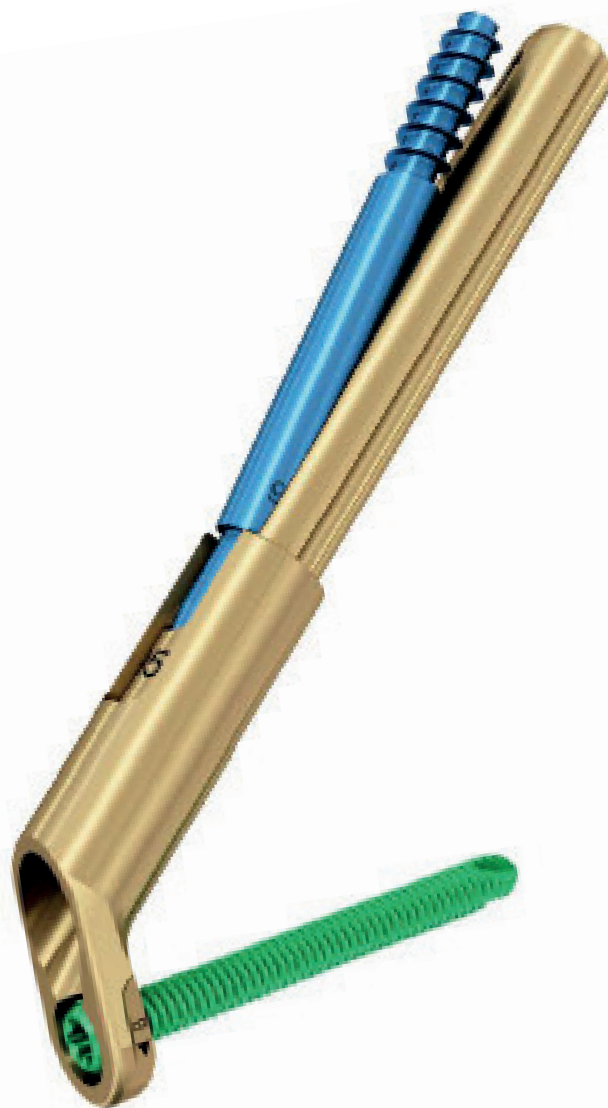
- Material: Ti-6Al-7Nb (TAN)
- Color: Gold
- Diameter: 10 mm
- Construct Lengths: 75 to 130 mm (5 mm increments)

Antirotation-Screw

- T25 StarDrive
- Material: Ti-6Al-7Nb (TAN)
- Color: Blue
- Diameter: 6.4 mm
- Construct Lengths: 75 to 130 mm (5 mm increments)

Locking Screw

- T25 StarDrive
- Material: Ti-6Al-7Nb (TAN)
- Color: Green
- Diameter: 5.0 mm
- Lengths: 30 to 60 mm (2 mm increments 30 to 50 mm, 5 mm increments 50 to 60 mm)



7.3 CSS is also available for alternative treatment

Thread \varnothing	Material	Thread length	Screw length	Guide wire \varnothing
7.3mm	SST	Short thread (16mm) Long thread (32mm) Full thread	30-150mm 45-150mm 20-130mm	2.8mm



Corail Hip System with SELF-CENTERING BIPOLAR

12/14
Taper

135°

125°

Self Centering Fixation Philosophy

- Ease of Assembly & Positive Eccentricity

Corail Hip System Fixation Philosophy

- Primary fixation via the trapezoidal proximal section locking in the proximal femur
- The horizontal oriented groves for adversing shear forces into desirable compressive ones
- Secondary fixation via osteo-integration along the entire length of stem

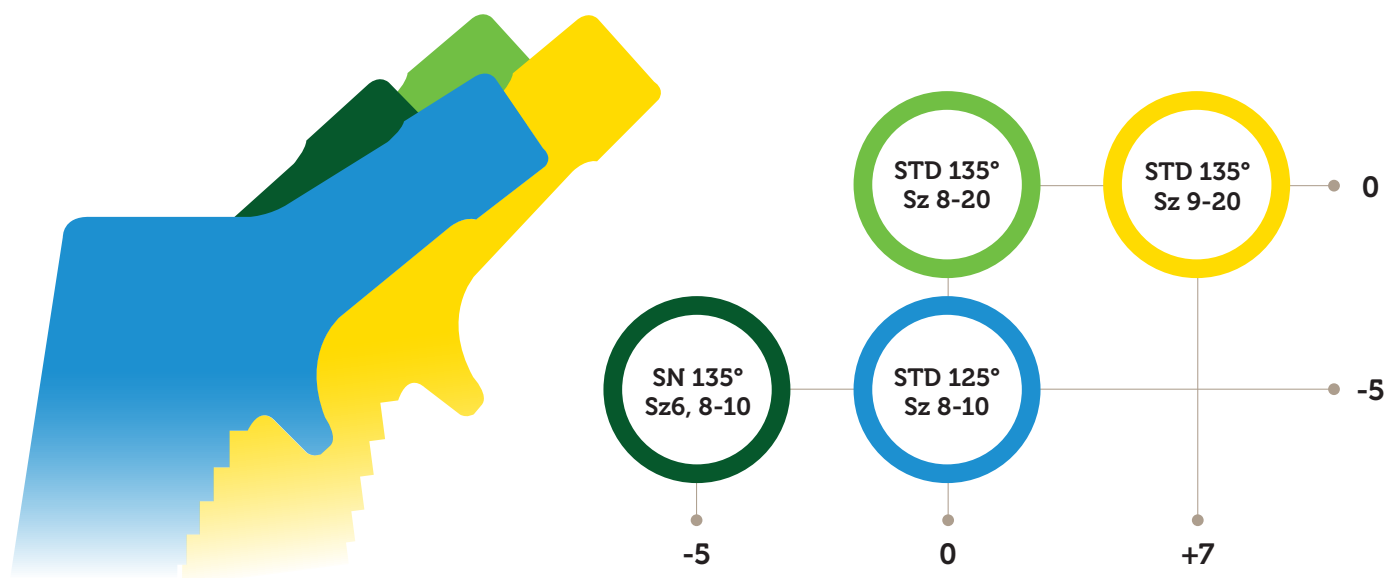
Materials

- Grit-Blasted Titanium Alloy coated with 150 μ m HA coating in whole body

**Self-Centering Bipolar is compatible with all DPS stem.
Ask DPS sales consultant for more information.**

Corail Implant Range

With various offset option, the Corail Hip System provides inborn stability and deep comfort



Standard Offset	6	8	9	10	11	12	13	14	15	16	18	20
High Offset			9	10	11	12	13	14	15	16	18	20
Short Neck Standard Offset	6	8	9	10								
Short Neck High Offset		8	9	10								

Self-centering Bipolar Cup



Size Range

Head Size	39 mm	40 mm	41 mm	42 mm	43 mm	44 mm	45 mm	46 mm	47 mm	48 mm	49 mm	50 mm	51 mm	52 mm	53 mm	54 mm	55 mm	56 mm
28mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○





COMPANIES OF *Johnson & Johnson*