

# Advanced

NAILING SYSTEM

**TN Advanced**  
TIBIAL NAILING SYSTEM

**RFN Advanced**  
RETROGRADE FEMORAL NAILING SYSTEM

**FRN Advanced**  
FEMORAL RECON NAILING SYSTEM

**TFN Advanced**  
PROXIMAL FEMORAL NAILING SYSTEM

**DePuy Synthes** | **Advanced**  
PART OF THE JOHNSON & JOHNSON FAMILY OF COMPANIES | NAILING SYSTEM

INCREASED STABILITY<sup>7-6, 8-10, 14, 17</sup>

DESIGNED FOR SIMPLE TO COMPLEX CASES<sup>8, 15, 18-21</sup>

INTUITIVE, CONNECTED INSTRUMENTATION<sup>22-23</sup>

To learn more about the future of nailing, contact your DePuy Synthes Sales Consultant.

Please also refer to the package insert(s) or other labeling associated with the devices identified in this brochure for additional information.

CAUTION: Federal Law restricts these devices to sale by or on the order of a physician.

Some devices listed in this brochure may not have been licensed in accordance with Canadian law and may not be for sale in Canada. Please contact your sales consultant for items approved for sale in Canada.

Not all products may currently be available in all markets.

Manufactured by:  
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For full product details and precautions, please consult the Instruction For Use.

Note: For recognized manufacturer, refer to the product label.

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**DePuy Synthes**

PART OF THE JOHNSON & JOHNSON FAMILY OF COMPANIES

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Refer to references 2-6, 8-10, 14 and 17 for stability claims.

\* Bench testing may not be indicative of clinical performance.  
\*\* AO Foundation is a 3rd party medically guided, not-for-profit organization led by an international group of surgeons specialized in the treatment of trauma and disorders of the musculoskeletal system.

STABILITY TO DO MORE™

# Advanced

NAILING SYSTEM

**DePuy Synthes**  
PART OF THE JOHNSON & JOHNSON FAMILY OF COMPANIES



STABILITY SOLUTIONS

The DePuy Synthes Advanced Nail System provides stability solutions to empower you and your patients to do more.

With a growing fragility fracture population<sup>1</sup>, the Advanced implants are specifically designed to address the challenges of reduction and fixation as well as the importance of early mobilization in compromised bone.<sup>16,24</sup>

Solutions for simple to complex cases, we provide efficiency and performance<sup>2,4,9</sup> by uniting intuitive, connected instrumentation with the Advanced implant family.

STABILITY TO DO MORE™

Please refer to the instructions for use for a complete list of indications, contraindications, warnings and precautions.

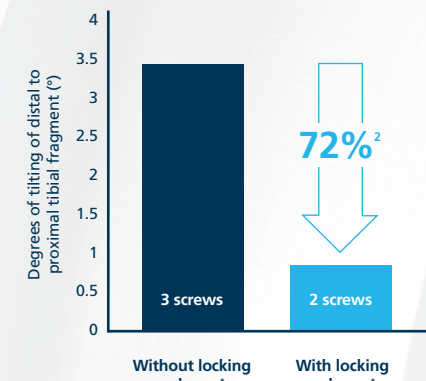
# TNA Advanced

TIBIAL NAILING SYSTEM

## ANGULAR STABILITY

Locking Polymer is built into the nail for angular stability without additional steps or special instrumentation.<sup>2,3</sup>

Reduces toggle by up to 72% compared to a conventional nail without polymer inlay such as the EXPERT NAIL™ Tibial Nail.<sup>2</sup>



## INCREASED SCREW FIXATION

Low profile screw and thread design resulted in 42% increase in pull out strength in poor bone, compared to conventional EXPERT NAIL Locking Screws.<sup>4</sup>

Locking Screws thread design resulted in 27% increase in bone purchase and 92% improved resistance to bone stripping compared to conventional EXPERT NAIL Locking Screws.<sup>4</sup>

Secure threaded retention.<sup>4</sup>



## MULTI-PLANER SCREW PATTERN

5 Proximally.

4 Distally. Most distal screw offers choice of 30° lateral or medial angulation for multiplaner locking to avoid vital anatomy.<sup>5</sup>

\*Matched pair cadaveric distal fracture model at 1100N axial load with 7Nm internal rotation torque after 5000 cycles.

# RFN Advanced

RETROGRADE FEMORAL NAILING SYSTEM

## MULTI-PLANER DECENDING OBLIQUE SCREW PATTERN WITH ANGULAR STABILITY

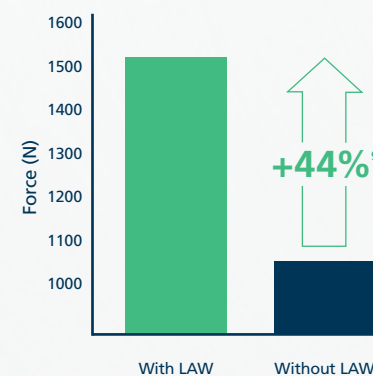
Locking Polymer is built into the nail for angular stability in all distal locking screws without additional steps, end caps, or special instruments.<sup>6</sup>

Designed to avoid the challenges associated with cross-threading and cold-welding.<sup>6</sup>

## IMPROVED FIT THROUGH MORE TKAs

RFN-Advanced offers nails with 5° and 10° bends that have flats along the medial and lateral aspect of the nail to fit through more TKAs than other leading retrograde nails.<sup>7</sup>

## LOCKED BLOCK OF SUPPORT



The Locking Attachment Washer (LAW) is designed to improve the stability of nailing, particularly for patients with compromised bone, or periprosthetic fractures.<sup>8</sup>

The addition of the LAW increases the construct strength by 44% compared to nailing alone.<sup>9</sup>

# FRN Advanced

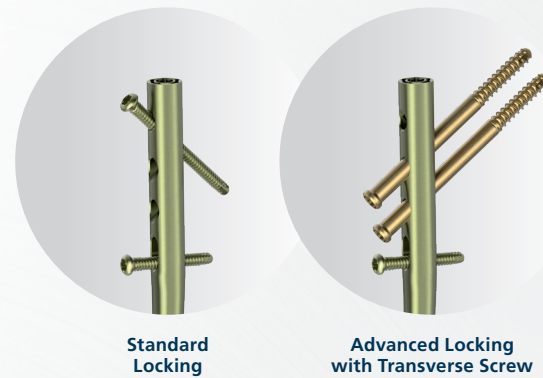
FEMORAL RECON NAILING SYSTEM

## COMPREHENSIVE SURGICAL OPTIONS<sup>10</sup>

Proximal options include standard locking, recon locking, or advanced locking with additional transverse screw.

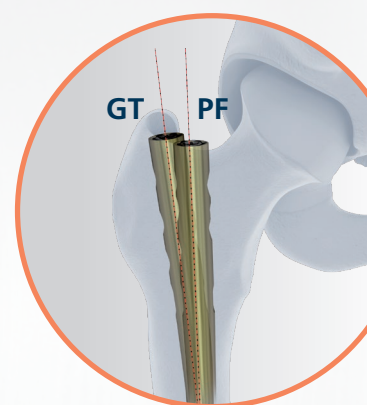
Dynamization up to 7 mm proximally and 10 mm distally.

4 distal locking options.



## ENTRY POINT OPTIONS

Greater Trochanter (GT) and Piriformis Fossa (PF) entry point nail designs.



## ANATOMIC FIT

1.0m radius of curvature (ROC) designed to help avoid impinging<sup>11-12</sup> anterior cortex compared to nails with larger radius of curvature.

Designed with short proximal end to reduce risk of nail prominence.<sup>13</sup>

Relative position of distal nail tip in femoral condyle.<sup>12</sup>

	Far Anterior	Anterior	Center	Posterior	Far Posterior
FRN (N=82)	21%	24%	35%	17%	4%
1.5M ROC Femoral Nail *N=51)*	59%	25%	14%	2%	0%

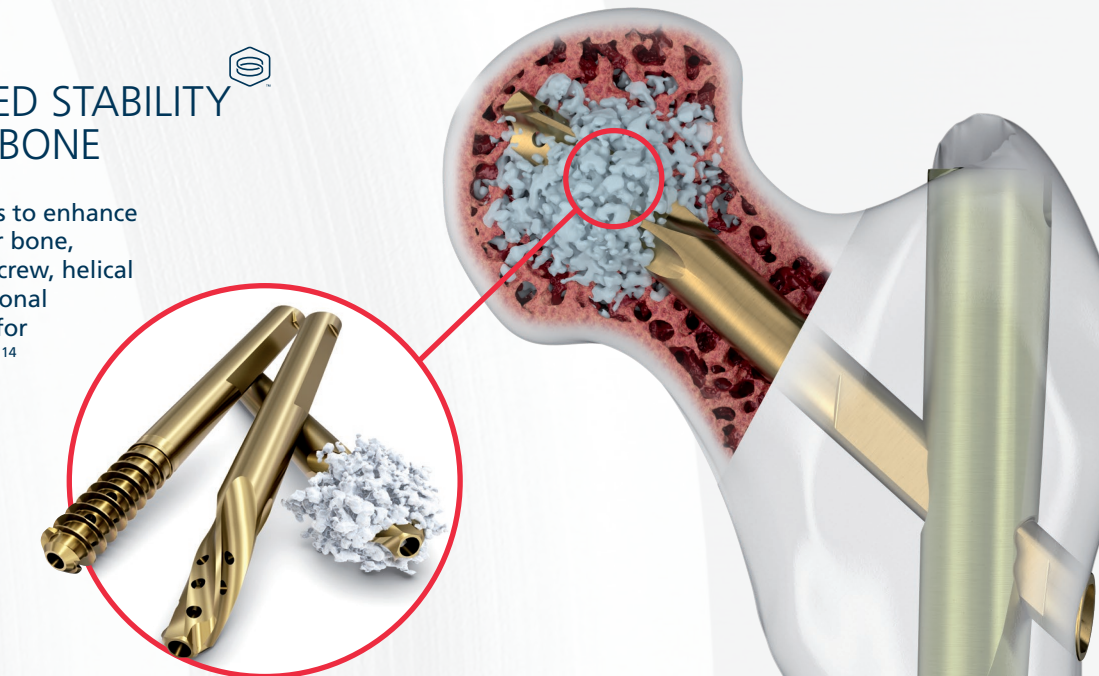
\*Test data on Gamma3\* femoral nail, Stryker\*

# TFN Advanced

PROXIMAL FEMORAL NAILING SYSTEM

## ENHANCED STABILITY IN POOR BONE

Surgical options to enhance stability in poor bone, offering a lag screw, helical blade, and optional augmentation for at-risk patients.<sup>14</sup>



## IMPROVED FIT AND STRENGTH

Designed with an anatomic 1.0m radius of curvature and a small proximal diameter of 15.66 mm leading to a better fitting implant compared to nail with 1.5m ROC.<sup>11</sup>

Made from TiMo Titanium Alloy providing improved strength over the competition.<sup>17</sup>

