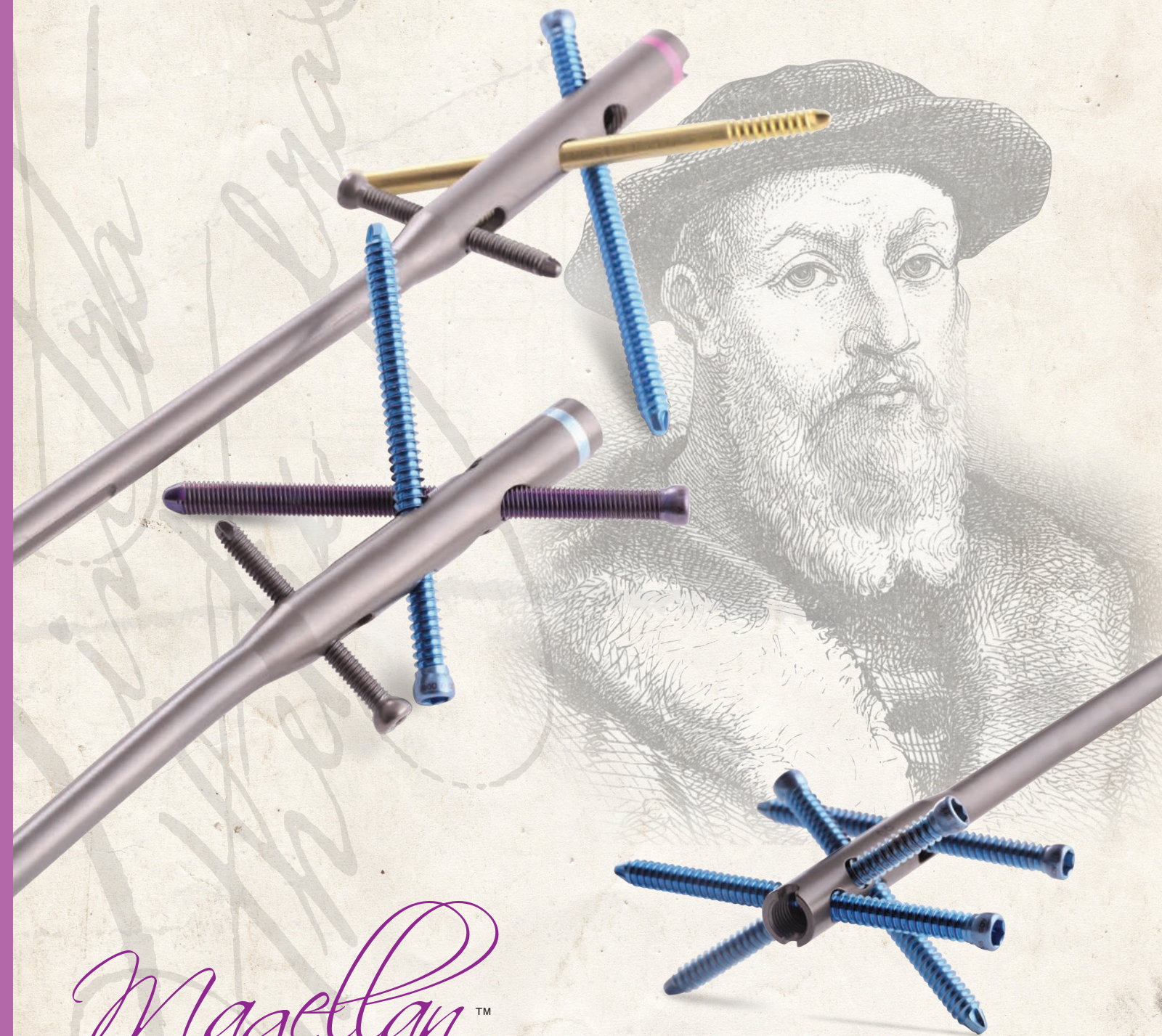


**AOS**<sup>TM</sup>

ADVANCED ORTHOPAEDIC SOLUTIONS



*Magellan*<sup>TM</sup>

FEMORAL NAIL SYSTEM

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# Antegrade

“Circumnavigating” the Femoral Fractures

Freedom to choose the screw configuration that best fits the fracture and patient

### 3-in-1 Proximal Screw Design:

- Reconstruction
- Oblique
- Transverse
- Or multiple combinations of all three

Precise Anatomical fit

*Reference Guide*  
Cortical/Cancellous Screws  
4.0mm Drill, 4.0mm Proximal Drill, 4.0mm  
Power Hole Driver for screws  
3.2mm pin guides and 5mm  
Cannulated Drill

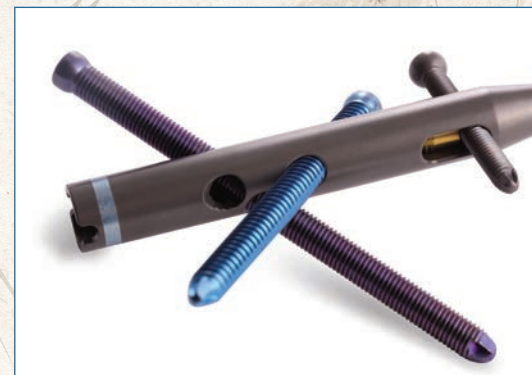
**Axial Fracture Compression:**  
Compress shaft fractures through the jig, for optimal reduction

Anterior Bow and proximal lateral flare for superior anatomical fit



**Underline “K” configuration:**  
Provides medial/lateral dynamization proximally with greater stability

**Dual Threaded Hole Design:**  
Threaded screw holes fit either cancellous or cortical screws for maximum stability



Maximized implant options to aid in anatomical reduction and healing

# Antegrade Configurations

6.0 Partially Threaded, 6.5 Cancellous, and 6.5 Cortical Screws may be used interchangeably in the same holes for a maximum variety of options.



## Screw and Drill Layout

Screw Options	Type	Diameter	Drill
	Partially Threaded Cancellous	6.0mm	4.8/6.0mm Calibrated Step (Yellow)
	Fully Threaded Cancellous	6.5mm	5.5mm (Blue/Purple)
	Fully Threaded Cortical	6.5mm	5.5mm (Blue/Purple)
	Fully Threaded Cortical	5.0mm	4.0mm (Green)



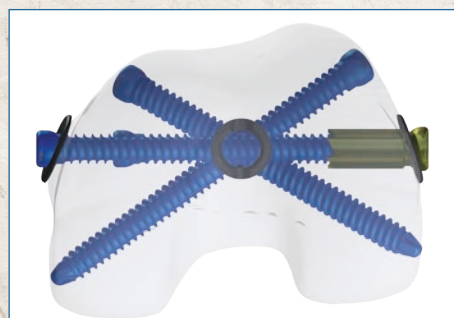
# Retrograde Features

“Circumnavigating” the Femoral Fractures

“Multiplane” Lateral Features. Our holes go oblique

Four distal screw options in multiple planes for maximum fixation

Fully targeted supracondylar nail



Condylar Compression. User friendly condylar compression instruments

*Reference Guide*  
*Captial End Caps*  
*4.0mm Drill, 4.0mm Locking Drill Guide*  
*Power Hit Driver for screws*  
*3.2mm pin guides and 5mm Cannulated Drill*

6.5mm condylar screws for maximum purchase in osteopenic bone

Optimal condylar screw trajectories for “total capture” of all fragments



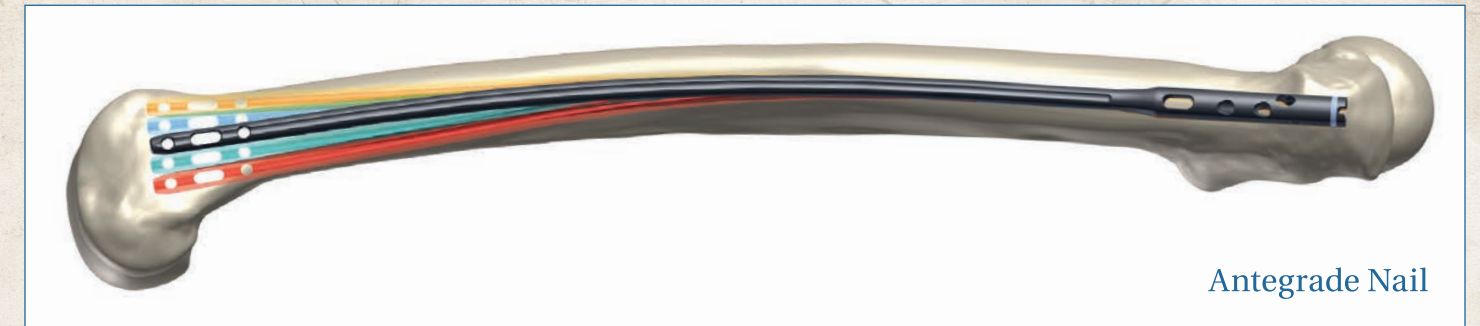
3 proximal locking screw options

Axial Fracture Compression

3rd hand technology: Drivers lock into targeting guide enabling the surgeon to more efficiently address condylar compression

*Retrograde Nail*  
 30-46mm

## Radius of Curvature



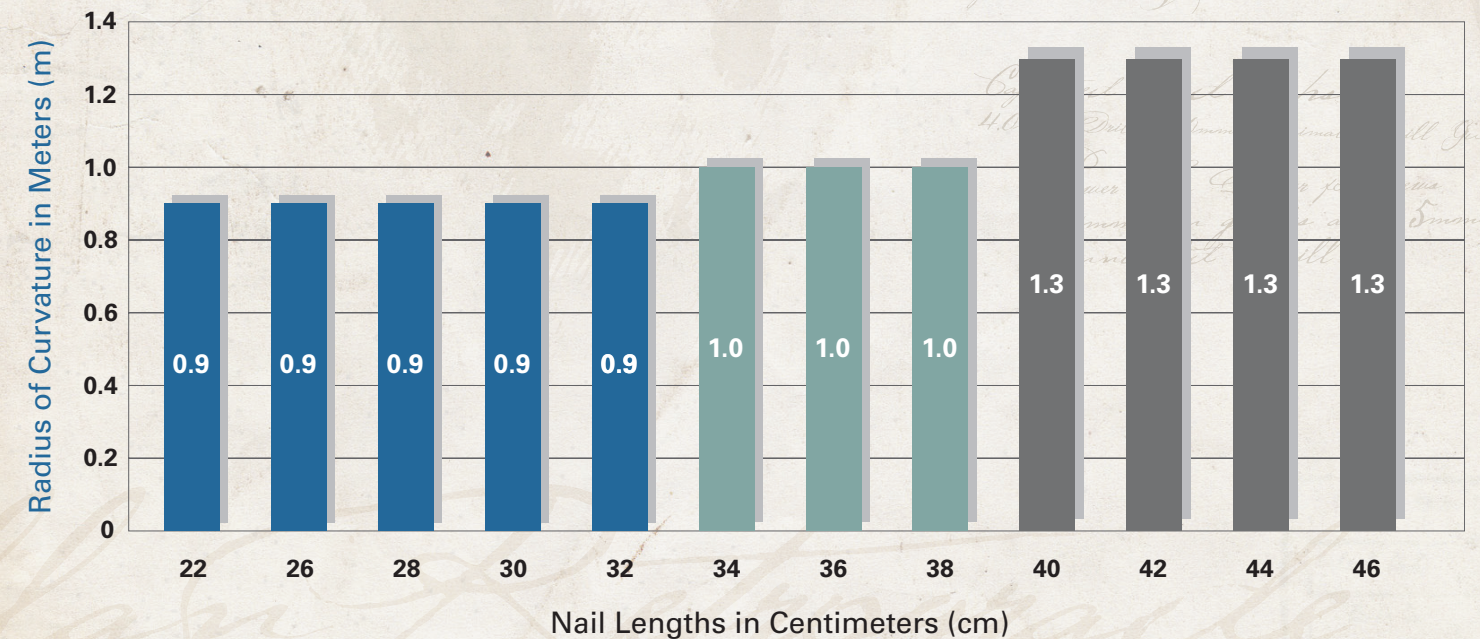
Antegrade Nail

## Competition Anterior Bows

Antegrade Femoral Nails		
Company	System	Radius of Curvature (in meters)
Stryker	T2 Recon Nailing System	2.0
Zimmer	Natural Nail System	1.27, 1.4, 1.52
Depuy-Synthes	ALFN-EX & LFN-EX	1.0
Smith & Nephew	Trigen TAN FAN	1.5 to 2.5

Retrograde Femoral Nails		
Company	System	Radius of Curvature (in meters)
Stryker	T2 Supracondylar Nailing System	2.0
Zimmer	Natural Nail System	1.27
Depuy-Synthes	Expert R/AFN Retrograde Femoral Nail	1.50
Smith & Nephew	TriGen Knee Nail	2.00

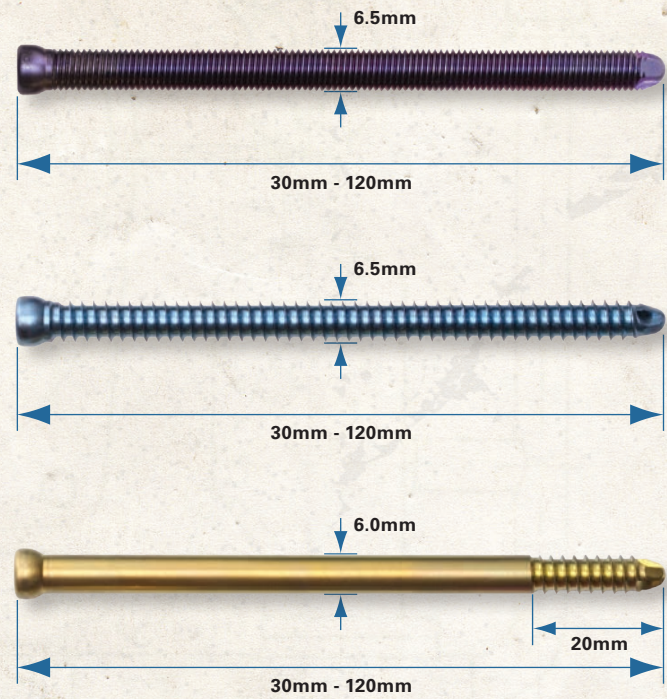
## AOS Radius of Curvature



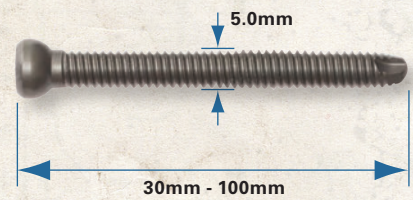


# Antegrade Implant Features

## Captured Cortical and Cancellous Screws (Proximal)



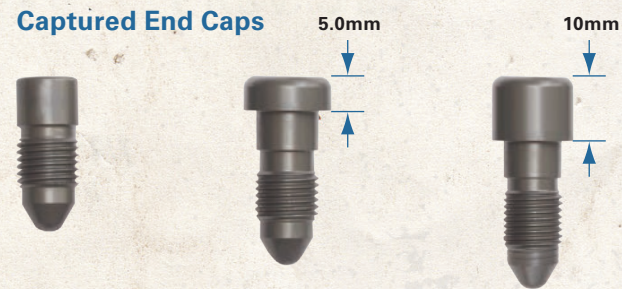
## Captured Cortical Bone Screw (Proximal and Distal)



## Locking Spacer



## Captured End Caps



## Recon Locking End Cap



PROXIMAL DIMENSIONS

## Left Nail

## Right Nail



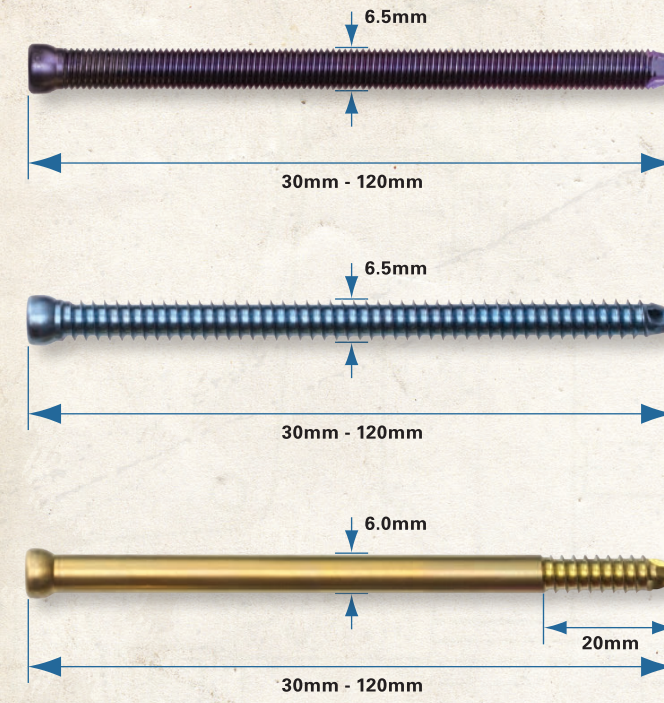
DIAMETERS  
9-13mm, 14mm\*  
(1mm increments)

LENGTHS  
30-46cm  
(2cm increments)

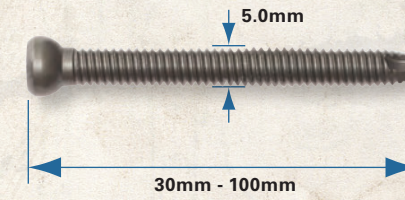
\* Special Request

# Retrograde Implant Features

## Captured Cortical and Cancellous Screws (Proximal)



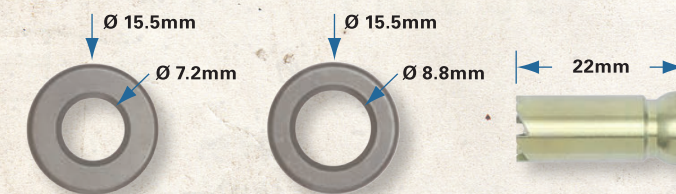
## Captured Cortical Bone Screw (Distal)



## Locking Spacer



## Condyle Fixation Nut & Washers

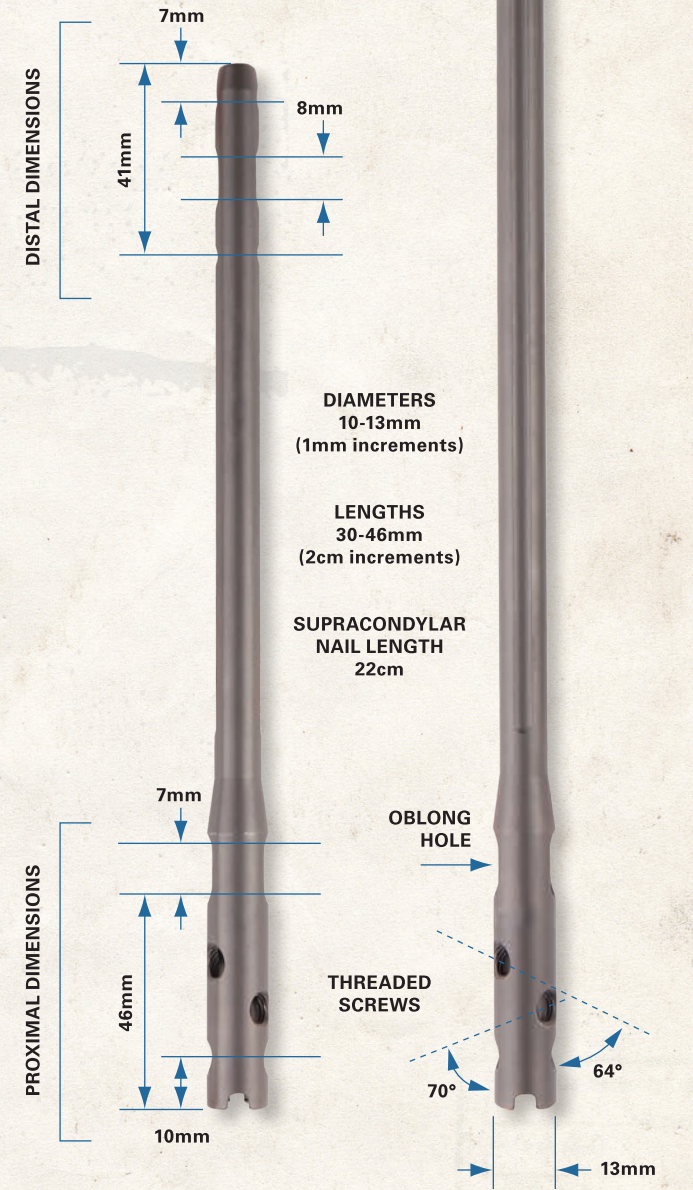


## Captured End Caps



## Retrograde Nail

## Supracondylar Nail



DISTAL DIMENSIONS

PROXIMAL DIMENSIONS