

# **D**iV|D**E**™

Humerus — C Nailing System



# INTRODUCTION

DIVIDE™ Humerus-C Nailing System offers an effective intramedullary nail for humeral fracture management. The proximal locking offers possibility of inter-fragmentary compression for enhanced stabilization of transverse and short oblique fractures. The compression rod is pushed against the proximal partially threaded locking screw that has been placed in the oblong hole, drawing either the distal or the proximal segment towards the fracture site. In stable fractures, this has the biomechanical advantage of creating active circumferential compression to the fracture site, transferring axial load to the bone, and reducing the function of the nail as a load bearing device. The system provides an accurate and fast mechanical aiming device for proximal locking.

## SYSTEM FEATURES

- Minimal invasive technique and biomechanical stability allow early functional exercise.
- **Intra-Operative Compression**  
Possibility of inter-fragmentary compression for enhanced stabilization of transverse and short oblique fractures.
- Compared to Plates and Screw Osteosynthesis: Less damage to muscle, connective tissue and vasculature, reduced periosteal stripping and concomitant soft tissue damage, designed for load sharing instead of load bearing.
- Distal Locking: accurate and dynamic distal locking can be performed via the aiming device.
- Cannulated nail design for easy guide insertion.
- All of the implants are available in Titanium Alloy and Stainless Steel.

## INDICATIONS

The DIVIDE™ Humerus-C Nailing System is indicated for proximal humeral and diaphyseal fractures, non-unions, mal-alignments, pathological humeral fractures, and impending pathological fractures.



## TECHNICAL SPECIFICATION

### Implant Material

All implants are manufactured from Ti-6Al-4V medical grade, anodized titanium alloy (ASTM F1472) due to this material's superior properties. The titanium alloy offers a lower modulus of elasticity and increased fatigue strength over stainless steel.

### Nail

#### Outer Diameter:

Size (mm)	7	8	9
Proximal Dia (mm)	9	9	9
Shaft Dia (mm)	7	8	9

#### Inner Diameter:

3.0 mm for all nails. It can allow the Guide Wire with Ball Tip 1.8X800 mm to pass through.

#### Lengths:

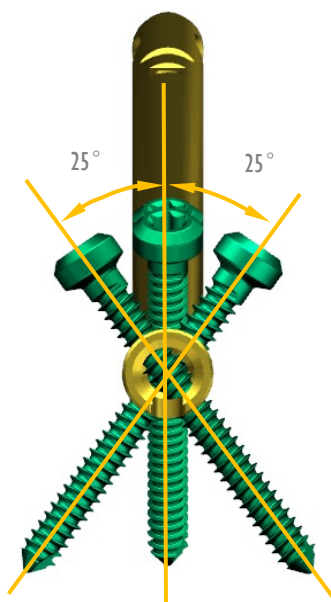
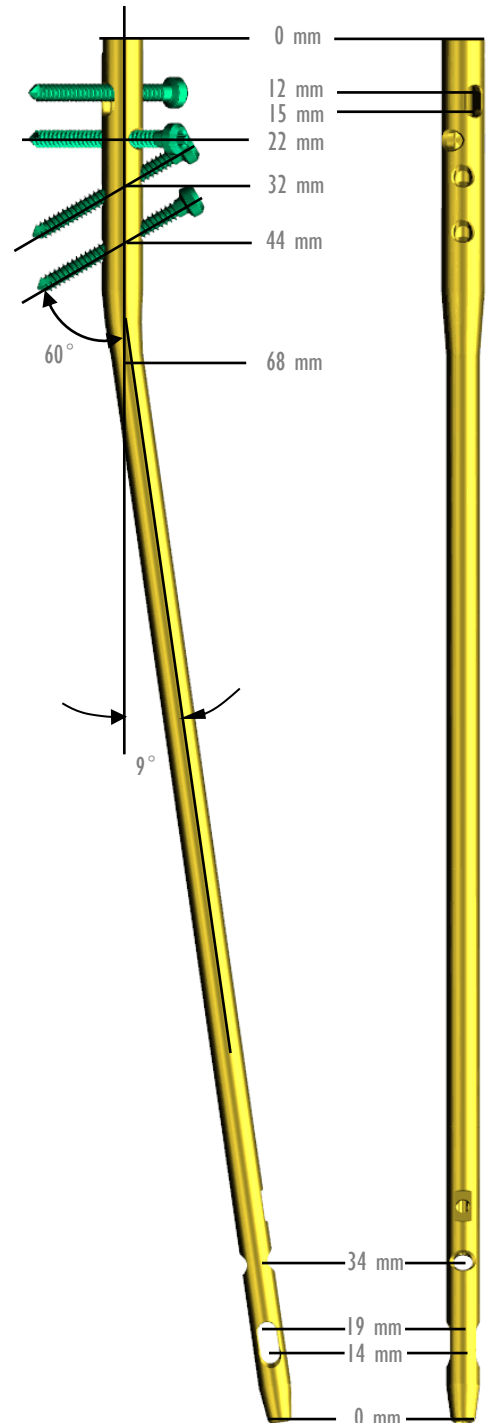
140 mm to 300 mm, in 20 mm increments

#### Direction:

Universal design for the left and right humerus

#### Cannulation:

All nails are cannulated



Proximal Locking

## TECHNICAL SPECIFICATION

### Locking Screws 4.0 mm, Fully Threaded

**Lengths:**

24 mm to 50 mm (2 mm increments)

Note: Screw length is measured from top of head to tip

**Design:**

2.7 mm core diameter

Stardrive T20 recess

Fully threaded

Self-tapping, blunt tip



### Locking Screws 4.0 mm, Partially Threaded

**Lengths:**

24 mm to 50 mm (2 mm increments)

Note: Screw length is measured from top of head to tip

**Design:**

3.8 mm shaft diameter

2.7 mm core diameter

Stardrive T20 recess

Partially threaded, thread length 13 mm

Self-tapping, blunt tip



### End Cap

**Sizes:**

0 mm, 5 mm, 10 mm, 15 mm

**Design:**

3.5 mm hexagon recess



# IMPLANT INFORMATION

## End Cap, for DIVIDE™ Humerus-C Nail



REF (SS)	REF (TIT)	SIZE (mm)
MOI 11708000	MOI 31708000	0
MOI 11708005	MOI 31708005	5
MOI 11708010	MOI 31708010	10
MOI 11708015	MOI 31708015	15

## DIVIDE™ Humerus-C Nail, with Compression, Cannulated



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11334140	MOI 31334140	7.0	140
MOI 11334160	MOI 31334160	7.0	160
MOI 11334180	MOI 31334180	7.0	180
MOI 11334200	MOI 31334200	7.0	200
MOI 11334220	MOI 31334220	7.0	220
MOI 11334240	MOI 31334240	7.0	240
MOI 11334260	MOI 31334260	7.0	260
MOI 11334280	MOI 31334280	7.0	280
MOI 11334300	MOI 31334300	7.0	300
MOI 11335140	MOI 31335140	8.0	140
MOI 11335160	MOI 31335160	8.0	160
MOI 11335180	MOI 31335180	8.0	180
MOI 11335200	MOI 31335200	8.0	200
MOI 11335220	MOI 31335220	8.0	220
MOI 11335240	MOI 31335240	8.0	240
MOI 11335260	MOI 31335260	8.0	260
MOI 11335280	MOI 31335280	8.0	280
MOI 11335300	MOI 31335300	8.0	300
MOI 11336140	MOI 31336140	9.0	140
MOI 11336160	MOI 31336160	9.0	160
MOI 11336180	MOI 31336180	9.0	180
MOI 11336200	MOI 31336200	9.0	200
MOI 11336220	MOI 31336220	9.0	220
MOI 11336240	MOI 31336240	9.0	240
MOI 11336260	MOI 31336260	9.0	260
MOI 11336280	MOI 31336280	9.0	280
MOI 11336300	MOI 31336300	9.0	300

## Locking Screw 4.0 mm

### Partially Threaded, for DIVIDE™ Humerus-C Nail



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11513024	MOI 31513024	4.0	24
MOI 11513026	MOI 31513026	4.0	26
MOI 11513028	MOI 31513028	4.0	28
MOI 11513030	MOI 31513030	4.0	30
MOI 11513032	MOI 31513032	4.0	32
MOI 11513034	MOI 31513034	4.0	34
MOI 11513036	MOI 31513036	4.0	36
MOI 11513038	MOI 31513038	4.0	38
MOI 11513040	MOI 31513040	4.0	40
MOI 11513042	MOI 31513042	4.0	42
MOI 11513044	MOI 31513044	4.0	44
MOI 11513046	MOI 31513046	4.0	46
MOI 11513048	MOI 31513048	4.0	48
MOI 11513050	MOI 31513050	4.0	50

## Locking Screw 4.0 mm

### Fully Threaded, for DIVIDE™ Humerus-C Nail



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11510024	MOI 31510024	4.0	24
MOI 11510026	MOI 31510026	4.0	26
MOI 11510028	MOI 31510028	4.0	28
MOI 11510030	MOI 31510030	4.0	30
MOI 11510032	MOI 31510032	4.0	32
MOI 11510034	MOI 31510034	4.0	34
MOI 11510036	MOI 31510036	4.0	36
MOI 11510038	MOI 31510038	4.0	38
MOI 11510040	MOI 31510040	4.0	40
MOI 11510042	MOI 31510042	4.0	42
MOI 11510044	MOI 31510044	4.0	44
MOI 11510046	MOI 31510046	4.0	46
MOI 11510048	MOI 31510048	4.0	48
MOI 11510050	MOI 31510050	4.0	50



## USA OFFICE

2404 Hollywood Blvd.  
Hollywood, FL 33020

## PUERTO RICO OFFICE

1660 Santa Ana Street  
Esq. Fidalgo Diaz,  
San Juan, Puerto Rico 00909

E-mail: [info@madisonorthoinc.com](mailto:info@madisonorthoinc.com)  
Website: [www.madisonorthoinc.com](http://www.madisonorthoinc.com)

