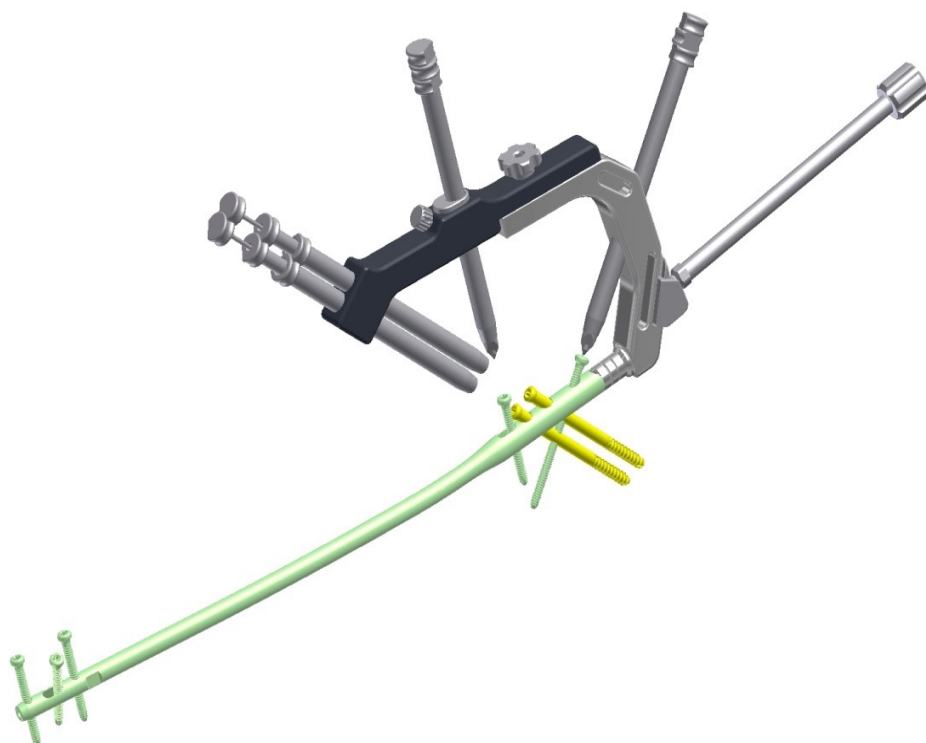


MAKALU™

Expert Femur Nailing System

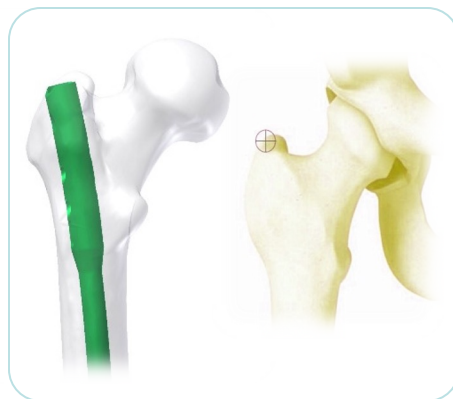


MAKALU™ Expert Femur Nailing System permits an intramedullary approach for the treatment of proximal metaphyseal as well as diaphyseal fractures. The system provides Standard antegrade femoral application and Recon application options without changing the nails. It is an optimized anatomical design for improved clinical outcome.

A major advantage of the system is the ability to insert both proximal and distal locking screws accurately and quickly without the use of X-rays, using an external mechanical targeting device.

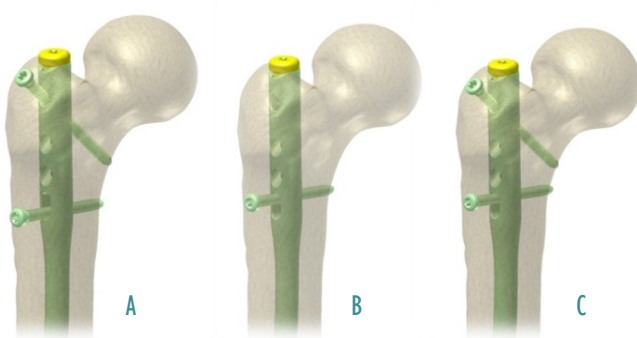
SYSTEM FEATURES

- Optimal lateral entry point. Easier and safer access to entry site.
- 5° lateral valgus bend plus an antecurvature of 1500 mm to allow for easy trochanteric tip insertion
- Static or dynamic proximal and distal locking options
- Accurate and fast mechanical aiming device for distal locking.



- Multiple locking options for Proximal Standard Locking.

- A For sufficient proximal static locking, always use the 135° antegrade locking option together with the transverse static screw.
- B For immediate primary dynamization, insert only one proximal locking screw through the dynamic slot.
- C For secondary dynamization use both the dynamic and the 135° antegrade locking positions.



- Proximal Recon Locking.

Secure placement can be achieved with 130° CCD and two Lag Screws 6.5 mm



- Higher angular stability through multiplanar screws.



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)	9	10	11	12	13	14
Proximal Dia (mm)	13.5	13.5	13.5	13.5	13.5	14
Shaft Dia (mm)	9	10	11	12	13	14

Inner Diameter:

4.2 mm for all nails. It can allow the Guide Wire with Ball Tip 2.5X1000 mm to pass through.

Lengths:

300 mm to 440 mm, in 20 mm increments

Direction:

Left and Right

Cannulation:

All nails are cannulated

Locking Screws 5.0 mm

Lengths:

30 mm to 80 mm (2 mm increments)

85 mm to 100 mm (5 mm increments)

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

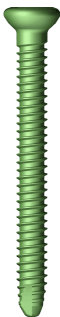
Design:

4.0 mm core diameter

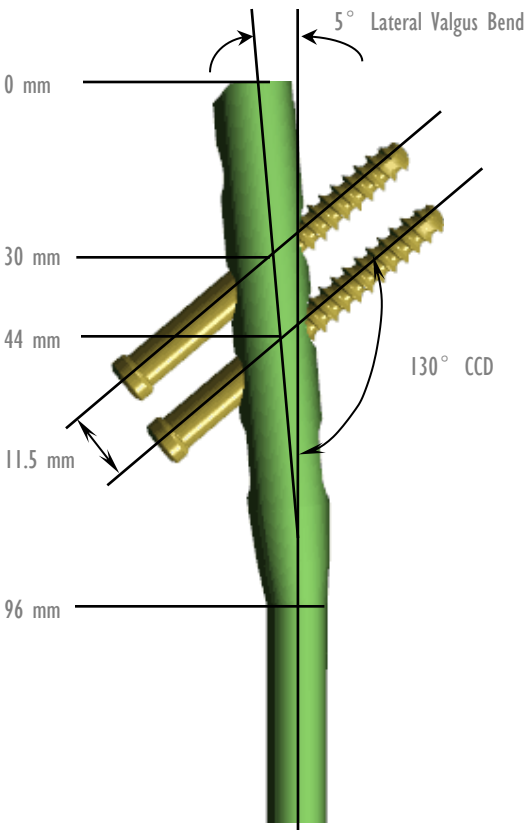
Stardrive T25 recess

Fully threaded

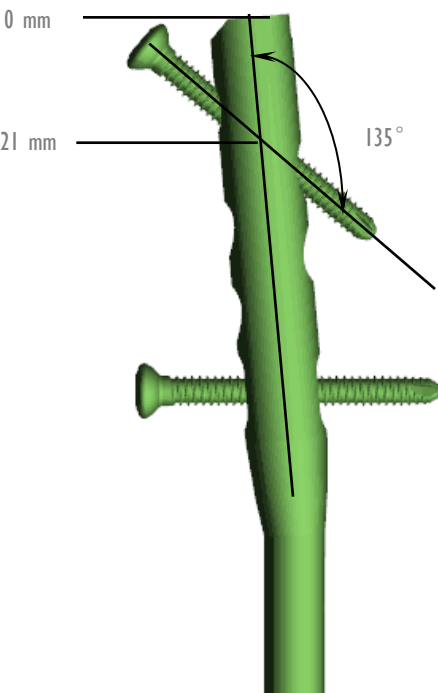
Self-tapping, blunt tip



Recon Locking



Antegrade Standard Locking



TECHNICAL SPECIFICATION

Lag Screw 6.5 mm

Lengths:

60 mm to 130 mm (5 mm increments)
Note: Screw length is measured from top of head to tip

Design:

6.5 mm shaft diameter
4.5 mm core diameter
Stardrive T25 recess
Thread length 33 mm



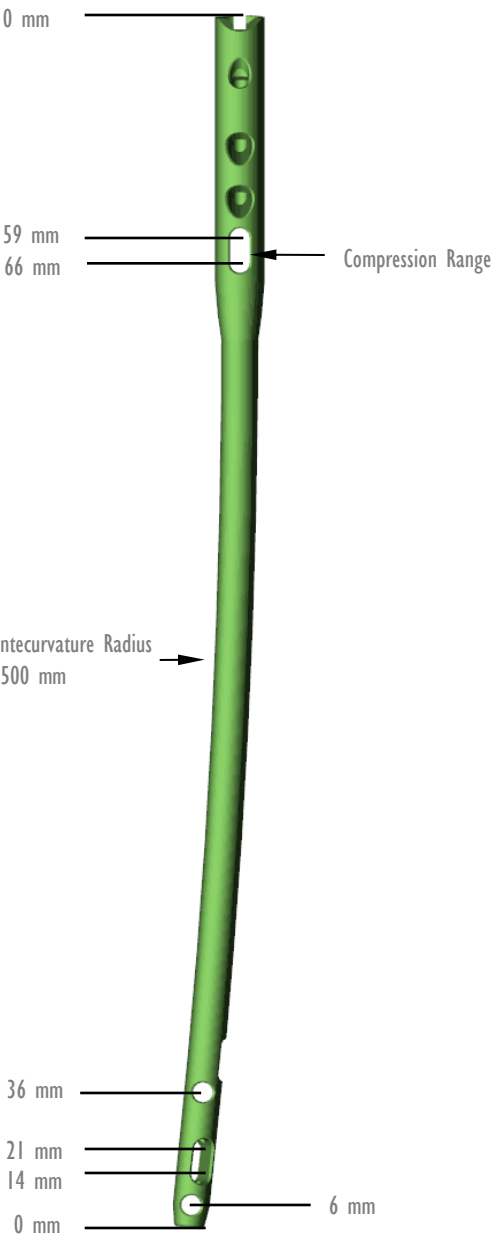
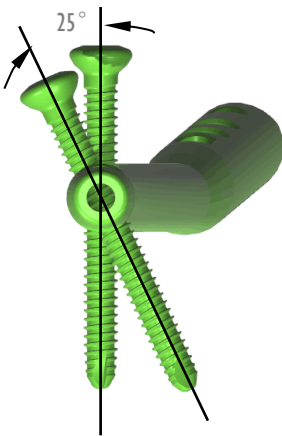
End Cap

Sizes:

0 mm, 5 mm, 10 mm, 15 mm, 20 mm

Design:

Stardrive T25 recess



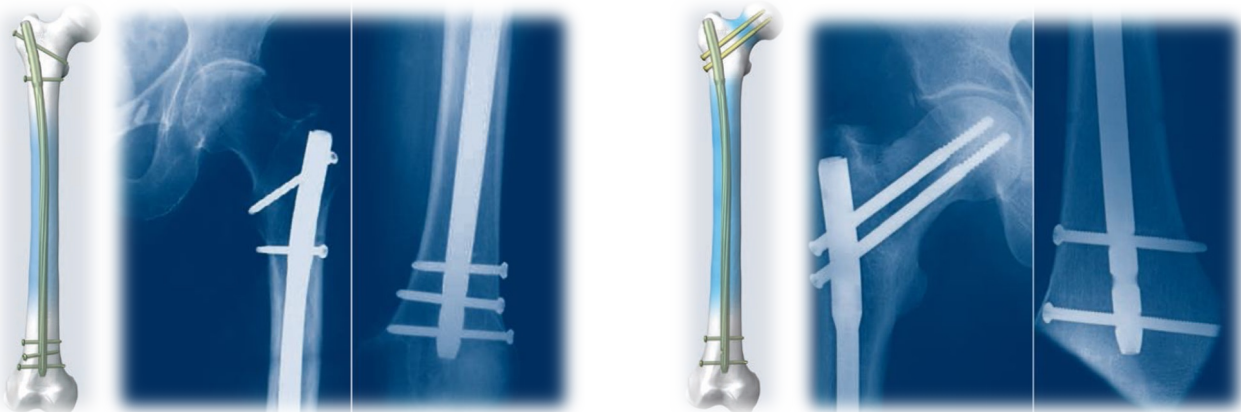
Indications

■ **Standard Locking Indications**

MAKALU™ with standard locking is indicated for fractures in the femoral shaft (except subtrochanteric fractures) .

■ **Recon Locking Indications**

MAKALU™ with recon locking is indicated for fractures in the subtrochanteric section and in the femoral shaft in case of combination with femoral neck fractures.



IMPLANT INFORMATION

MAKALU™ Expert Femur Nail, Cannulated, LEFT



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11346320	MOI 31346320	9.0	320
MOI 11346340	MOI 31346340	9.0	340
MOI 11346360	MOI 31346360	9.0	360
MOI 11346380	MOI 31346380	9.0	380
MOI 11346400	MOI 31346400	9.0	400
MOI 11346420	MOI 31346420	9.0	420
MOI 11346440	MOI 31346440	9.0	440
MOI 11347320	MOI 31347320	10.0	320
MOI 11347340	MOI 31347340	10.0	340
MOI 11347360	MOI 31347360	10.0	360
MOI 11347380	MOI 31347380	10.0	380
MOI 11347400	MOI 31347400	10.0	400
MOI 11347420	MOI 31347420	10.0	420
MOI 11347440	MOI 31347440	10.0	440
MOI 11348320	MOI 31348320	11.0	320
MOI 11348340	MOI 31348340	11.0	340
MOI 11348360	MOI 31348360	11.0	360
MOI 11348380	MOI 31348380	11.0	380
MOI 11348400	MOI 31348400	11.0	400
MOI 11348420	MOI 31348420	11.0	420
MOI 11348440	MOI 31348440	11.0	440
MOI 11349320	MOI 31349320	12.0	320
MOI 11349340	MOI 31349340	12.0	340
MOI 11349360	MOI 31349360	12.0	360
MOI 11349380	MOI 31349380	12.0	380
MOI 11349400	MOI 31349400	12.0	400
MOI 11349420	MOI 31349420	12.0	420
MOI 11349440	MOI 31349440	12.0	440
MOI 11350320	MOI 31350320	13.0	320
MOI 11350340	MOI 31350340	13.0	340
MOI 11350360	MOI 31350360	13.0	360
MOI 11350380	MOI 31350380	13.0	380
MOI 11350400	MOI 31350400	13.0	400
MOI 11350420	MOI 31350420	13.0	420
MOI 11350440	MOI 31350440	13.0	440
MOI 11351320	MOI 31351320	14.0	320
MOI 11351340	MOI 31351340	14.0	340
MOI 11351360	MOI 31351360	14.0	360
MOI 11351380	MOI 31351380	14.0	380
MOI 11351400	MOI 31351400	14.0	400
MOI 11351420	MOI 31351420	14.0	420
MOI 11351440	MOI 31351440	14.0	440

MAKALU™ Expert Femur, Cannulated



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11346300	MOI 31346300	9.0	300
MOI 11347300	MOI 31347300	10.0	300
MOI 11348300	MOI 31348300	11.0	300
MOI 11349300	MOI 31349300	12.0	300
MOI 11350300	MOI 31350300	13.0	300
MOI 11351300	MOI 31351300	14.0	300

Lag Screw 6.5 mm, for MAKALU™



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11521060	MOI 31521060	6.5	60
MOI 11521065	MOI 31521065	6.5	65
MOI 11521070	MOI 31521070	6.5	70
MOI 11521075	MOI 31521075	6.5	75
MOI 11521080	MOI 31521080	6.5	80
MOI 11521085	MOI 31521085	6.5	85
MOI 11521090	MOI 31521090	6.5	90
MOI 11521095	MOI 31521095	6.5	95
MOI 11521100	MOI 31521100	6.5	100
MOI 11521105	MOI 31521105	6.5	105
MOI 11521110	MOI 31521110	6.5	110
MOI 11521115	MOI 31521115	6.5	115
MOI 11521120	MOI 31521120	6.5	120
MOI 11521125	MOI 31521125	6.5	125
MOI 11521130	MOI 31521130	6.5	130

MAKALU™ Expert Femur Nail, Cannulated, RIGHT



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11378320	MOI 31378320	9.0	320
MOI 11378340	MOI 31378340	9.0	340
MOI 11378360	MOI 31378360	9.0	360
MOI 11378380	MOI 31378380	9.0	380
MOI 11378400	MOI 31378400	9.0	400
MOI 11378420	MOI 31378420	9.0	420
MOI 11378440	MOI 31378440	9.0	440
MOI 11379320	MOI 31379320	10.0	320
MOI 11379340	MOI 31379340	10.0	340
MOI 11379360	MOI 31379360	10.0	360
MOI 11379380	MOI 31379380	10.0	380
MOI 11379400	MOI 31379400	10.0	400
MOI 11379420	MOI 31379420	10.0	420
MOI 11379440	MOI 31379440	10.0	440
MOI 11380320	MOI 31380320	11.0	320
MOI 11380340	MOI 31380340	11.0	340
MOI 11380360	MOI 31380360	11.0	360
MOI 11380380	MOI 31380380	11.0	380
MOI 11380400	MOI 31380400	11.0	400
MOI 11380420	MOI 31380420	11.0	420
MOI 11380440	MOI 31380440	11.0	440
MOI 11381320	MOI 31381320	12.0	320
MOI 11381340	MOI 31381340	12.0	340
MOI 11381360	MOI 31381360	12.0	360
MOI 11381380	MOI 31381380	12.0	380
MOI 11381400	MOI 31381400	12.0	400
MOI 11381420	MOI 31381420	12.0	420
MOI 11381440	MOI 31381440	12.0	440
MOI 11382320	MOI 31382320	13.0	320
MOI 11382340	MOI 31382340	13.0	340
MOI 11382360	MOI 31382360	13.0	360
MOI 11382380	MOI 31382380	13.0	380
MOI 11382400	MOI 31382400	13.0	400
MOI 11382420	MOI 31382420	13.0	420
MOI 11382440	MOI 31382440	13.0	440
MOI 11383320	MOI 31383320	14.0	320
MOI 11383340	MOI 31383340	14.0	340
MOI 11383360	MOI 31383360	14.0	360
MOI 11383380	MOI 31383380	14.0	380
MOI 11383400	MOI 31383400	14.0	400
MOI 11383420	MOI 31383420	14.0	420
MOI 11383440	MOI 31383440	14.0	440

Locking Screw 5.0mm, for MAKALU™



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11520030	MOI 31520030	5.0	30
MOI 11520032	MOI 31520032	5.0	32
MOI 11520034	MOI 31520034	5.0	34
MOI 11520036	MOI 31520036	5.0	36
MOI 11520038	MOI 31520038	5.0	38
MOI 11520040	MOI 31520040	5.0	40
MOI 11520042	MOI 31520042	5.0	42
MOI 11520044	MOI 31520044	5.0	44
MOI 11520046	MOI 31520046	5.0	46
MOI 11520048	MOI 31520048	5.0	48
MOI 11520050	MOI 31520050	5.0	50
MOI 11520052	MOI 31520052	5.0	52
MOI 11520054	MOI 31520054	5.0	54
MOI 11520056	MOI 31520056	5.0	56
MOI 11520058	MOI 31520058	5.0	58
MOI 11520060	MOI 31520060	5.0	60
MOI 11520062	MOI 31520062	5.0	62
MOI 11520064	MOI 31520064	5.0	64
MOI 11520066	MOI 31520066	5.0	66
MOI 11520068	MOI 31520068	5.0	68
MOI 11520070	MOI 31520070	5.0	70
MOI 11520072	MOI 31520072	5.0	72
MOI 11520074	MOI 31520074	5.0	74
MOI 11520076	MOI 31520076	5.0	76
MOI 11520078	MOI 31520078	5.0	78
MOI 11520080	MOI 31520080	5.0	80
MOI 11520085	MOI 31520085	5.0	85
MOI 11520090	MOI 31520090	5.0	90
MOI 11520095	MOI 31520095	5.0	95
MOI 11520100	MOI 31520100	5.0	100

End Cap, for MAKALUTM



REF (SS)	REF (TIT)	SIZE (mm)
MOI 11711000	MOI 31711000	0
MOI 11711005	MOI 31711005	5
MOI 11711010	MOI 31711010	10
MOI 11711015	MOI 31711015	15
MOI 11711020	MOI 31711020	20



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