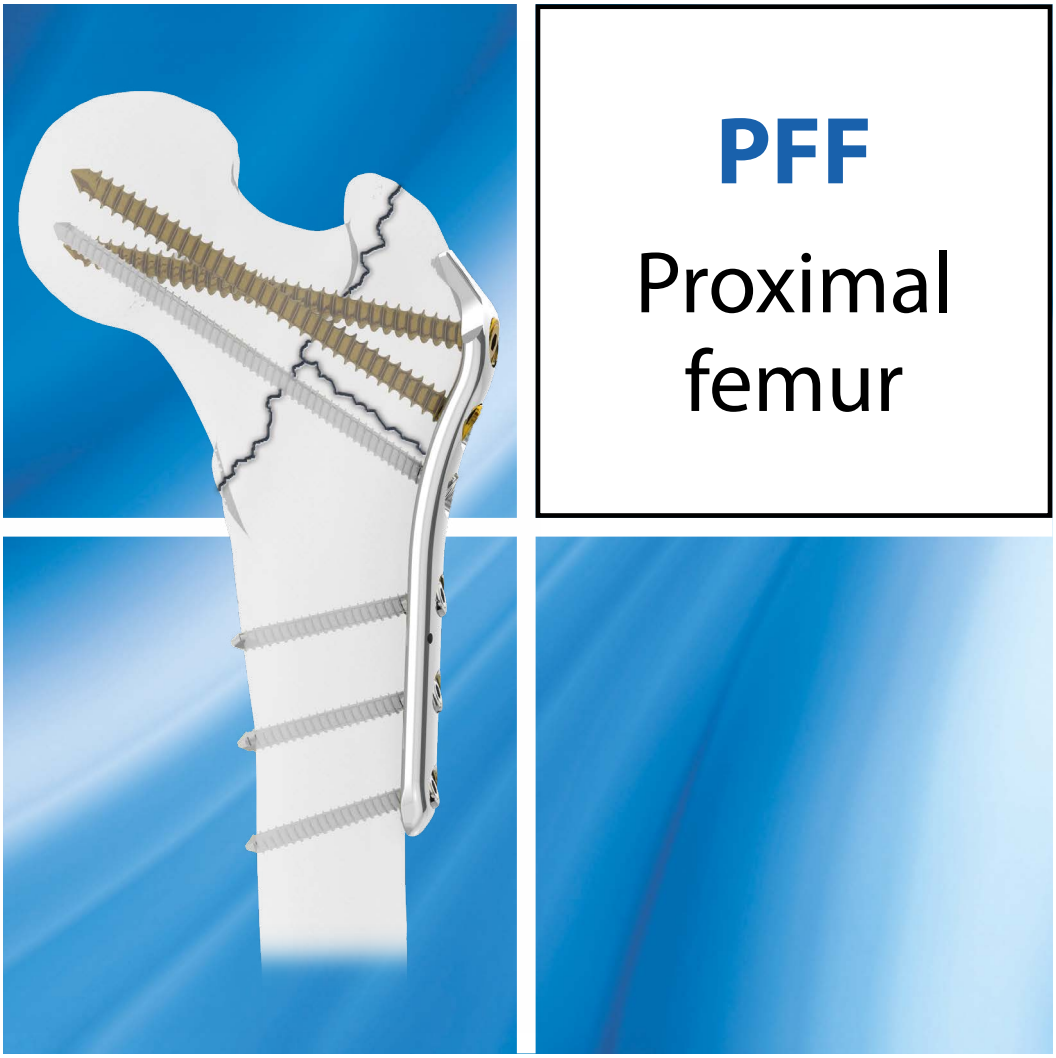
O'nil
The internal fixator



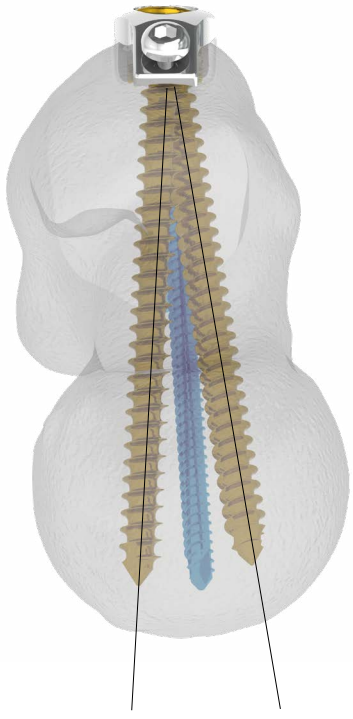
PFF

Proximal femur

intrauma®

PFF - Proximal femur

The PFF Modular Hook for treating proximal fractures of the femur provides the usual excellent stability of O'nil locking plates, but with the **additional option of securing the Greater Trochanter using a modular Greater Trochanter hook.**
The patented conical screw locking system creates a stable system in osteoporotic bones, when screw security can be compromised. In this system the screws act like an external fixator, rather than compressing the plate onto the bone. This important feature of O'nil locking plates helps to preserve periosteal vascularity.
The two proximal 7mm screws diverge by 8° to facilitate placement and to follow the anteversion of the femoral neck, ensuring excellent fixation in the trochanteric region. The modular Greater Trochanter hook allows excellent reduction and security of the tip of the Greater Trochanter.
The anatomical profile of the plate encourages complete reduction of the metaphyses to the diaphyses and facilitates restoration of the anatomical neck angle.



The proximal screws diverge from each other by 8°

Indications

The PFF modular hook plate is indicated for proximal fractures of the femur including:

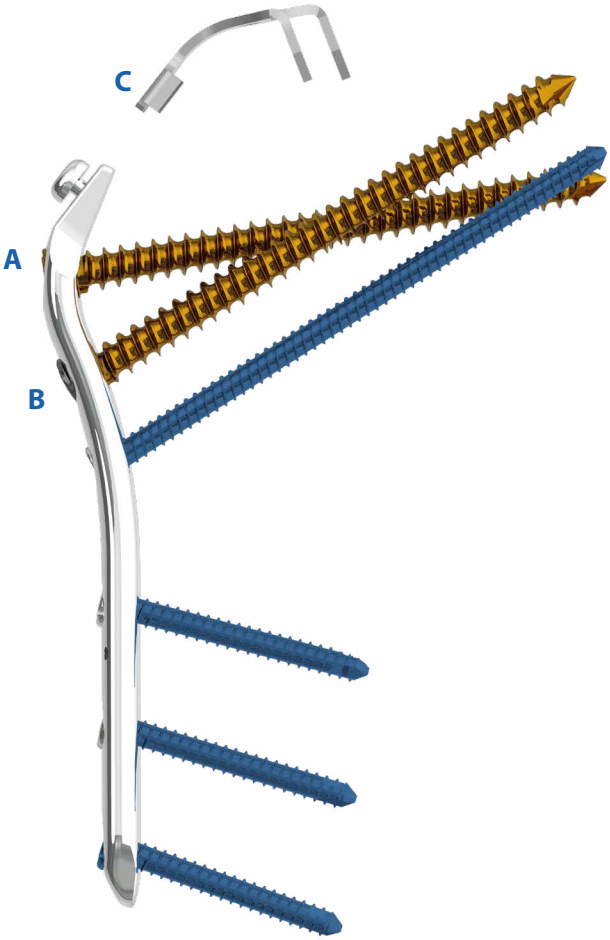
- Fractures of the trochanteric region, cervico-trochanteric, trochanteric-diaphyseal, multifragmented, per-trochanteric, intertrochanteric, inverted intertrochanteric or transverse fractures, or supplementary fractures of the medial cortex
- Fractures of the proximal extremity of the femur combined with ipsilateral diaphyseal fractures
- Fractures with presence of metastases in the proximal femur
- Osteotomies of the proximal femur
- Fixation of fractures in porotic bone and fixation of non-consolidated fractures or consolidation defects

Technical specifications

- The first proximal screw (A) is oriented at 100°
- The second proximal screw (B) is oriented at 121°
- Modular GT hook (C)
- The plate is made of diamagnetic steel AISI316LVM; autolocking, self tapping, self-threading 7mm e 5mm conical screws and bushes made of titanium Ti6Al4V

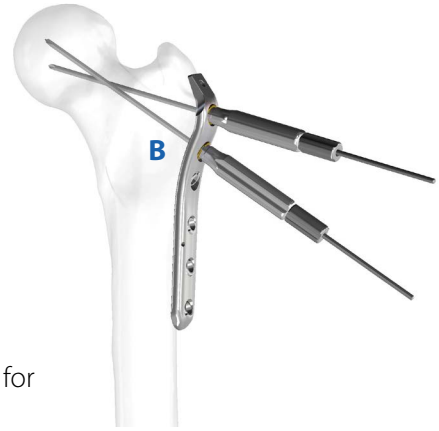
Benefits and advantages

- The two auto-locking proximal screws 7mm provide excellent stability, regardless of the bone quality
- The 8° angle between the two proximal screws provides a wider angle of support
- The patented locking screw system is easy to use and eliminates the risk of cross-threading between the head of the screw and the plate
- Screws can be easily removed or replaced if required
- The plate is available in 3 lengths, right and left
- The locking system allows bicortical fixation
- Simple instruments for reduced surgical times
- Plates made of steel AISI 316 LVM - ISO 5832-1, to allow magnetic resonance



Surgical technique

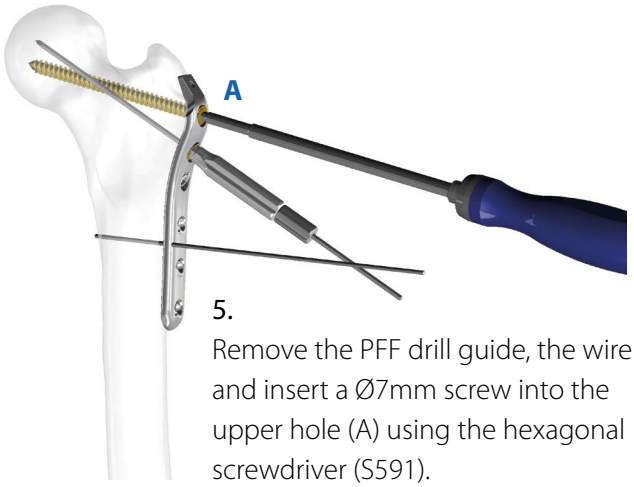
1.
Position the support on the bone and insert the PFF drill guide (S59), the K-wire guide (S594) and the threaded K-wire Ø2,5mm (S102) into the upper proximal hole (A) for Ø7,0mm screws.



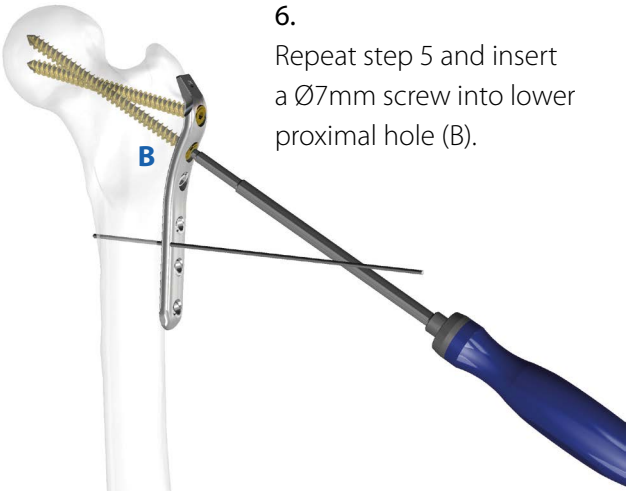
2.
Repeat step 1 on the lower proximal hole (B) for Ø7,0mm screws.

3.
Measure the screw length required with the PFF depth meter (S592) without removing the PFF drill guide.

4.
Remove the PFF depth meter and insert the Ø5mm cannulated drill bit (S595) making a hole for 5-6cm.

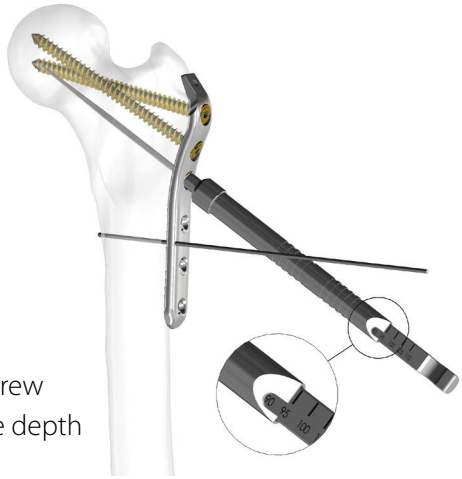


5.
Remove the PFF drill guide, the wire and insert a Ø7mm screw into the upper hole (A) using the hexagonal screwdriver (S591).

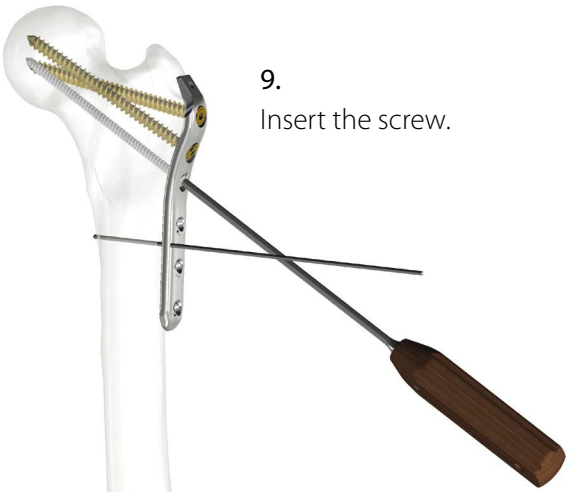


6.
Repeat step 5 and insert a Ø7mm screw into lower proximal hole (B).

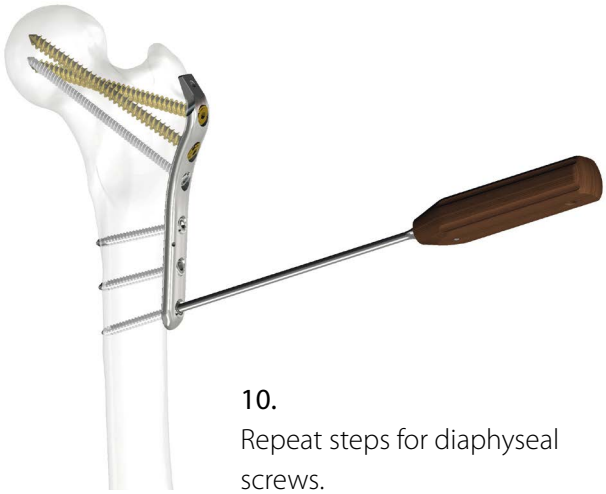
7.
Insert the drill guide (S51) on the third proximal hole and use a 4mm drill bit (S52).



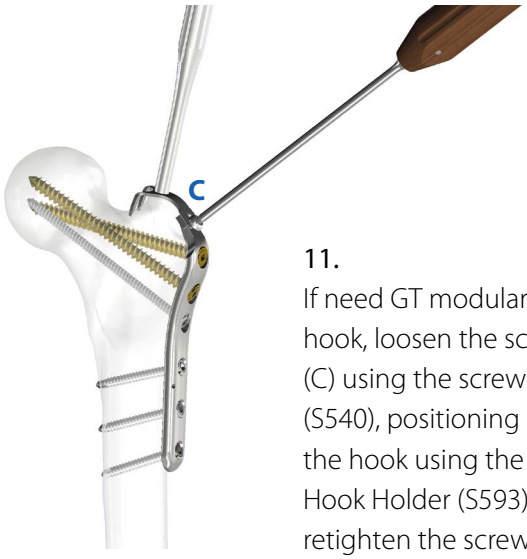
8.
Measure the screw lenght with the depth meter (S53).



9.
Insert the screw.



10.
Repeat steps for diaphyseal screws.



11.
If need GT modular hook, loosen the screw (C) using the screwdriver (S540), positioning the hook using the GT Hook Holder (S593) and retighten the screw (C).

12.
Complete.

Ordering information

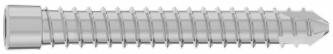
			Epiphysis holes		Diaphysis holes	
Ref.	Plates	L. mm	Locked	Free	Locked	Free
155.2001	PFF Proximal femur (L) short	123	3	0	3	0
155.2002	PFF Proximal femur (R) short	123	3	0	3	0
155.2003	PFF Proximal femur (L) medium	173	3	0	5	0
155.2004	PFF Proximal femur (R) medium	173	3	0	5	0
155.2005	PFF Proximal femur (L) long	223	3	0	7	0
155.2006	PFF Proximal femur (R) long	223	3	0	7	0
155.2007	PFF Proximal femur (L) extra-long	299	3	0	10	0
155.2008	PFF Proximal femur (R) extra-long	299	3	0	10	0

O'nil autolocking screws Ø5,0mm

Ref.	L. mm
150.4512	12
150.4516	16
150.4520	20
150.4522	22
150.4524	24
150.4526	26
150.4528	28
150.4530	30
150.4532	32
150.4534	34
150.4536	36
150.4538	38
150.4540	40
150.4542	42
150.4544	44
150.4546	46
150.4548	48
150.4550	50
150.4552	52
150.4555	55
150.4560	60
150.4565	65
150.4570	70
150.4575	75
150.4580	80
150.4585	85
150.4590	90
150.4595	95
150.4596	100
150.4597	105
150.4598	110

O'nil autolocking screws Ø7,0mm

Ref.	L. mm
156.1060	60
156.1065	65
156.1070	70
156.1075	75
156.1080	80
156.1085	85
156.1090	90
156.1095	95
156.1100	100
156.1105	105
156.1110	110
156.1115	115



O'nil autolocking screws Ø5,0mm

O'nil autolocking screws Ø7,0mm

Materials
Supports: Stainless steel AISI 316 LVM - ISO 5832-1
Screws and bushings: Titanium Ti6Al4V - ISO 5832-3

Instruments

Instruments Serie 5

S500 - 5/PFF - Instrument Tray - 1 pcs

S51 - Ø4,0mm Conical Drill Guide - 2 pcs

S512 - Ø1,5mm K-Wire Sleeve - 1 pcs

S514 - Ø4,0mm Conical Graduated Drill Guide - 1 pcs

S52 - Ø4,0mm Drill Bit, 200mm - 1 pcs

S53 - Depth Meter - 1 pcs

S535 - K-Wire Ø1,5mm x 200mm - 2 pcs

S540 - 3,0mm Hex Screwdriver - 1 pcs

S55 - Bushing Carrier/Extractor - 1 pcs

S56 - Quick Coupling 3,0mm Hex Shaft - 1 pcs

S562 - Screw/Bushing Disassembler - 1 pcs

Dedicated instruments PFF

S102 - Threaded Guide Wire Ø2,5mm x 270mm - 2 pcs

S59 - Ø5,0mm Conical Drill Guide - 2 pcs

S591 - 3,5mm Hex Screwdriver - 1 pcs

S592 - PFF Depth Meter - 1 pcs

S593 - GT Hook Holder - 1 pcs

S594 - Ø2,5mm K-Wire Guide - 2 pcs

S595 - Ø5,0mm Cannulated Drill Bit, 200mm - 1 pcs

SVL - Ø5,0mm Temporary Stabilizing Screw - 2 pcs

SET50/PFF - Complete instruments set serie 5 / PFF

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