intrauma®

EN

Bones in motion

PFF.

O'nil The internal fixator

Rail

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PFF Proximal Femur.

With Rail option

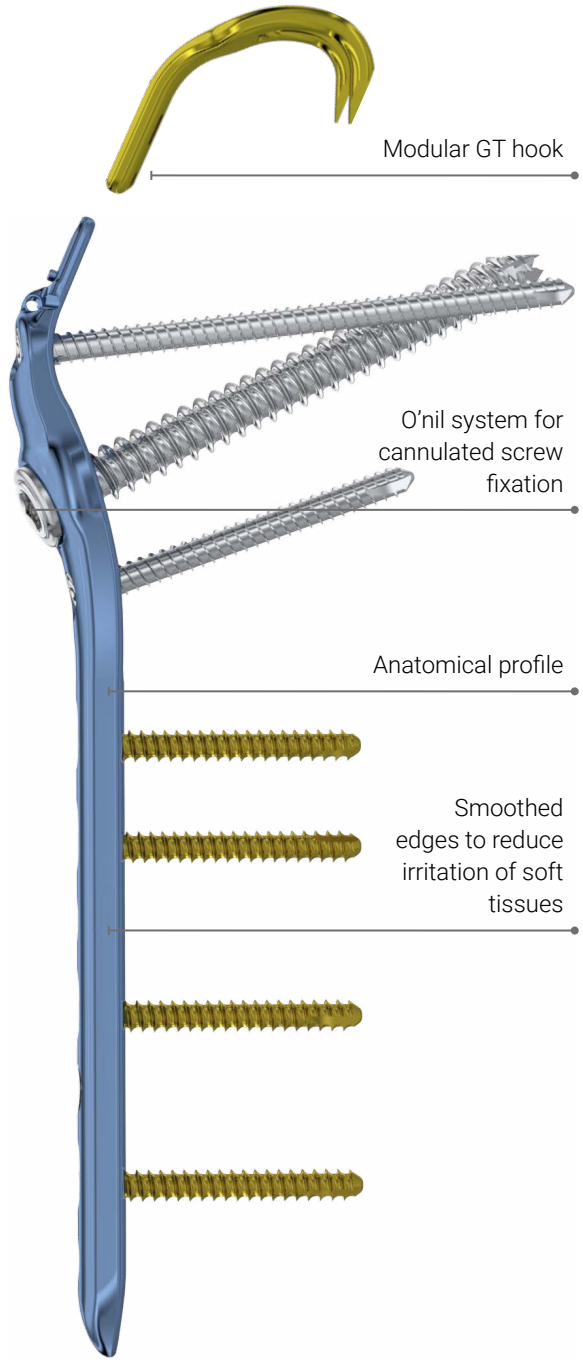
The PFF Modular Hook for the proximal femur provides all the stability features of the O'nil system and, if necessary, also offers the **possibility of assembling the modular GT hook to stabilize the greater trochanter.**

The patented conical locking system is important to achieve angular stability in osteoporotic bones, where the grip of the screws may be compromised. Rather than using the compression of the plate on the bone to resist the patient's load, the screws work like a fixator, and the limited-contact design helps to preserve the external periosteal blood supply. In addition, the innovative Rail system offers the possibility of creating a dynamic system thanks to a new type of screw with a cylindrical head that slides into the slot of the plate.

The proximal screws diverge from each other by 8° and the Ø8.5mm cannulated screw has a 13.5° angle to facilitate insertion and to follow the anteversion of the femoral neck, ensuring stable fixation in the trochanteric region.

The anatomical profile supports the reduction from metaphysis to diaphysis and facilitates the restoration of the neck-diaphysis angle.

Proximal screws diverge from each other by 8°.



Rail Bones in motion

/ PFF Proximal femur with Rail option

Indications

The PFF Rail proximal femur plate is indicated for proximal femur fractures including:

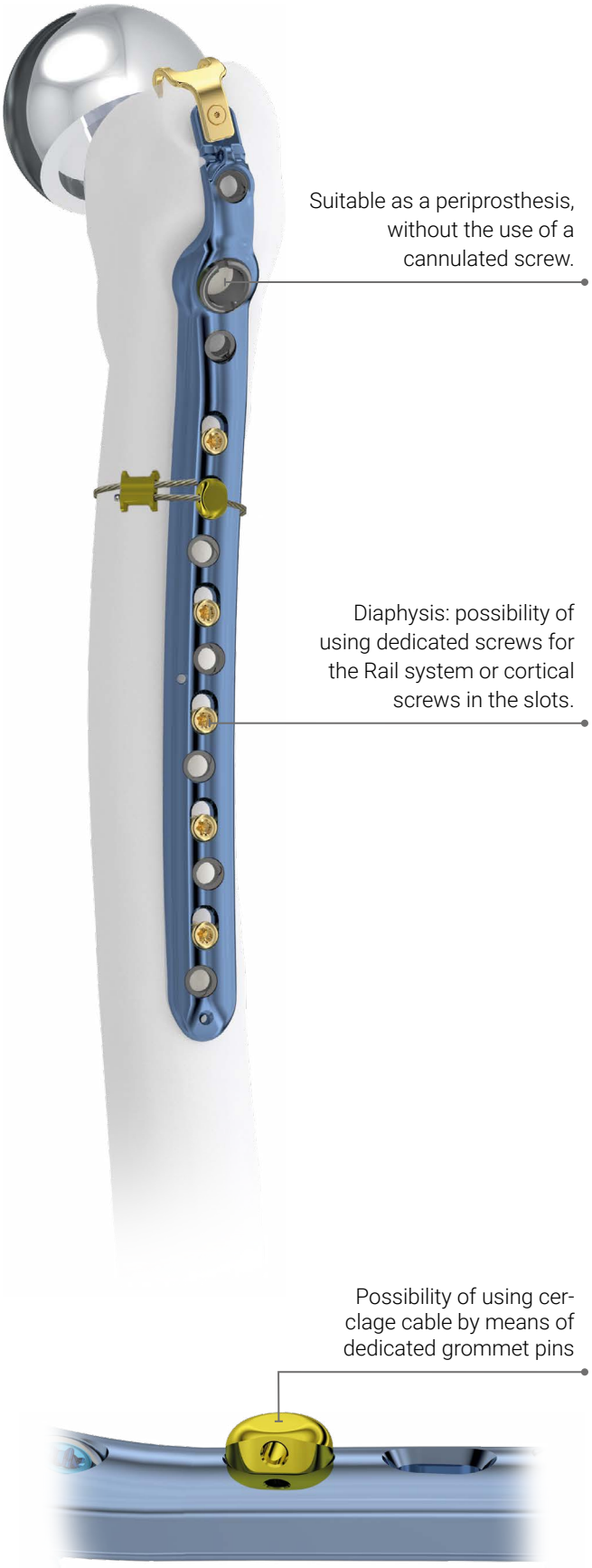
- Fractures of the trochanteric region, simple trochanteric, cervicotrochanteric, trochantero-diaphyseal, pertrochanteric multifragmentary, intertrochanteric, inverted or transverse intertrochanteric fractures or with additional fracture of the medial cortex.
- Fractures of the proximal end of the femur combined with ipsilateral diaphyseal fractures.
- Fractures with presence of metastases of the proximal femur.
- Osteotomies of the proximal femur.
- Periprosthetic fractures.

Technical specifications

- Non-parallel screw axes for better fixation
- Anteversion of the cannulated self-locking screw by 13.5°
- Ø8.5mm cannulated self-locking screw
- Ø4.8mm self-locking screws
- Ø4.8mm Rail screws
- Ø4.8mm Cortical Screws
- Modular GT hook
- Titanium Ti6Al4V ISO 5832-3 plate
- Titanium Ti6Al4V ISO 5832-3 screws
- Trochanteric Hook: Titanium GR.4 ISO 5832-2

Benefits and advantages

- The two self-locking conical proximal screws provide excellent stability regardless of bone quality.
- The divergence between the two proximal screws provides a larger support surface.
- The patented screw-support locking system allows an easy technique and eliminates the risk of cross-threading between the screw head and the support.
- Easy replacement of screws if necessary.
- Available in 4 lengths, with left and right versions.
- The locking system allows bicortical fixation.
- Simple instruments and reduced surgical time.



Hookless implant Surgical Technique.

· 0

Assemble the K-wire guide (S711) in the drill bit guide (S712) and screw it in as far as it will go. Insert the drill bit guide into the cephalic screw bushing. Position and align the plate.

· 1

Insert the Ø2.5mm K-wire (S714) into the guide (S711), checking the direction of the wire under fluoroscopy and making any necessary corrections. Once the correct position has been found, leave the wire (S714) in place and stabilize the plate with a Ø2.0mm K-wire (S534) in the diaphysis.

· 2

Insert the depth meter (S713) on the cephalic wire (S714), bring it into contact with the guide (S711) and read the length of the Ø8.5mm self-locking screw to be used by referring to the reference line marked on the wire.

· 3

Remove the depth meter S713, unscrew the guide (S711) from the drill bit guide (S712) and drill the cephalic screw hole using the Ø6.2mm cannulated drill bit (S79). Insert it on the wire (S714) and advance it until the stop ring touches the drill bit guide (S712). Remove the drill bit guide (S712) by turning it in a clockwise direction and pulling it.

• **4.1**

Insert the Ø8.5mm cannulated cephalic screw onto the wire (S714) and advance it into the hole using the cannulated 6.0mm hex screwdriver (S74). If necessary, compress the fragment by placing the compression fork between the head of the screw and the bushing and tighten until the desired compression is achieved.

• **4.2**

Screw the cephalic screw all the way in and remove the wire (S714).

• **5**

Insert the drill bit guide (S51) into the proximal bushing of the plate. Drill the hole for the Ø4.8mm self-locking screw using the Ø4.0mm drill bit (S52). Remove the drill bit guide as described in [4.2].

• **6**

Measure the length of the Ø4.8mm screw to be used using the depth meter (S53), which should be brought into contact with the head of the bushing.

• **7**

Insert the Ø4.8mm self-locking screw in the drilled hole, screwing it in tightly using the screwdriver (S540HL).

• **8**

Insert the second epiphyseal Ø4.8mm locking screw in the same way as described in [5÷7].

• **9L**

For the locking implant configuration insert the Ø4.8mm self-locking screws into the diaphysis following the steps escribed in points [5÷7]. If the soft tissue layer allows it, drill bit S520 (L=160mm) can be used instead of drill bit S52 (L=200mm).

• **9RD**

For the dynamic Rail implant configuration, drill a first hole for a Ø4.8mm Rail screw in a diaphyseal slot using the drill bit guide (S515) and the Ø4.0mm drill bit S520 (L=160mm) or S52 (L=200mm). The hole must be drilled in the distal part of the slot.

• **9RS**

For the static Rail implant configuration, drill a first hole for a Ø4.8mm Rail screw in a diaphyseal slot using the drill bit guide (S515) and the Ø4.0mm drill bit S520 (L=160mm) or S52 (L=200mm).
The hole should be drilled in the proximal part of the slot.

• **10R**

Measure the length of the Ø4.8mm Rail screw to be used using the depth meter (S53), which should be brought into contact with the countersink of the slot.

• **11R**

Insert the Ø4.8mm rail screw into the drilled hole, screwing it in tightly using the screwdriver (S540HL).

• **12RD**

Complete the implant in dynamic configuration by performing steps [09RD, 10R, 11R] in the remaining Rail slots.

- **12RS**

Complete the implant in static configuration by performing steps [09RS, 10R, 11R] in the remaining Rail slots.

- **12RSD**

Complete the implant in dynamizable configuration by performing steps [09RD, 10R, 11R] in the remaining Rail slots and inserting a locking screw into the diaphysis following steps [5÷7].

Surgical Technique for implant with hook.

- **G00-G01**

Outside the operating field, assemble the hook 165.2000 on the plate using the 2.0mm hex key (S721).

- **G02-G03**

Insert and position the plate. If necessary, use the hook driver (S722) to facilitate insertion.

• **G04**

If necessary, use the cephalic screw, insert the K-wire guide (S711) into the drill bit guide (S712), screw it all the way in without tightening and insert the drill bit guide into the cephalic screw bushing using moderate pressure.

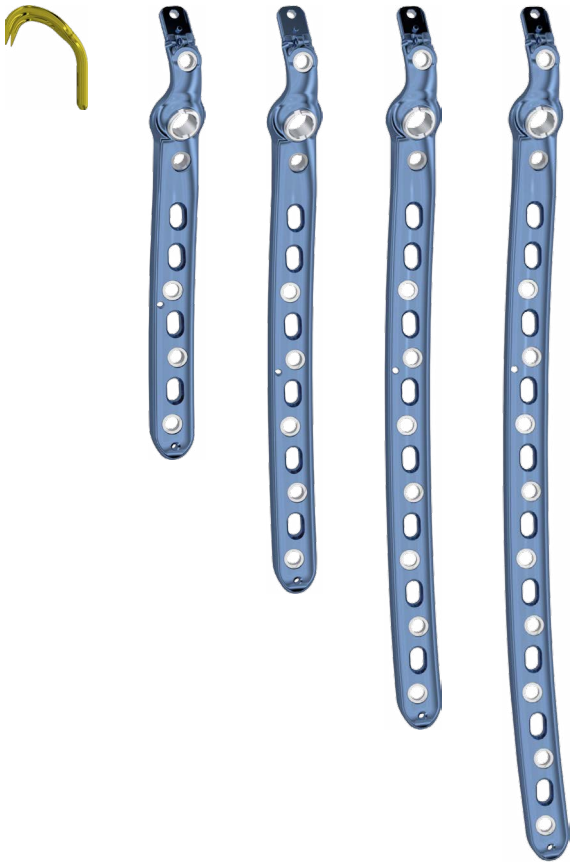
• **G05**

Complete the implant by following points [1÷4.2] if using the Ø8.5mm self-locking cephalic screw and points [5÷12] for the Ø4.8mm self-locking and Rail screws.

Ordering informations.

			Epiphysis holes		Diaphysis holes	
Ref.	Description	L. mm	Locked	Free	Locked	Free
165.2001	PFF Rail Proximal Femur Plate (L) Short	169	3	0	3	4
165.2002	PFF Rail Proximal Femur Plate (R) Short	169	3	0	3	4
165.2003	PFF Rail Proximal Femur Plate (L) Medium	219	3	0	5	6
165.2004	PFF Rail Proximal Femur Plate (R) Medium	219	3	0	5	6
165.2005	PFF Rail Proximal Femur Plate (L) Long	269	3	0	7	8
165.2006	PFF Rail Proximal Femur Plate (R) Long	269	3	0	7	8
165.2007	PFF Rail Proximal Femur Plate (L) Extra-Long	319	3	0	9	10
165.2008	PFF Rail Proximal Femur Plate (R) Extra-Long	319	3	0	9	10
165.2000	PFF Rail Trochanteric Hook					

32.3104	Conical Cerclage Eyelet Ø4.8mm
32.3105	Threaded Conical Cerclage Eyelet Ø4.8mm
32.3106	Cerclage Eyelet for Rail Slot Ø4.8mm



Materials:

Plates | Titanium Ti6Al4V - ISO 5832-3

Bushings | Titanium Ti6Al4V - ISO 5832-3

Trochanteric hook | Titanium GR.4 ISO 5832-2 + Titanium Ti6Al4V - ISO 5832-3

Autolocking screws

/ SCREW | ■ Ø4.8MM

Ref.	L. mm
101.4810	10
101.4812	12
101.4814	14
101.4816	16
101.4818	18
101.4820	20
101.4822	22
101.4824	24
101.4826	26
101.4828	28
101.4830	30
101.4832	32
101.4834	34
101.4836	36
101.4838	38
101.4840	40
101.4842	42
101.4844	44
101.4846	46
101.4848	48
101.4850	50
101.4855	55
101.4860	60
101.4865	65
101.4870	70
101.4875	75
101.4880	80
101.4885	85
101.4890	90
101.4895	95
101.4896	100
101.4897	105
101.4898	110

Ti6Al4V - ISO 5832-3

Cortical screws

/ SCREW | ■ Ø4.8MM

Ref.	L. mm
102.4812	12
102.4814	14
102.4816	16
102.4818	18
102.4820	20
102.4822	22
102.4824	24
102.4826	26
102.4828	28
102.4830	30
102.4832	32
102.4834	34
102.4836	36
102.4838	38
102.4840	40
102.4842	42
102.4844	44
102.4846	46
102.4848	48
102.4850	50
102.4855	55
102.4860	60
102.4865	65
102.4870	70

Ti6Al4V - ISO 5832-3

Rail screws

/ SCREW | Ø4.8MM

Ref.	L. mm
104.4820	20
104.4822	22
104.4824	24
104.4826	26
104.4828	28
104.4830	30
104.4832	32
104.4834	34
104.4836	36
104.4838	38
104.4840	40
104.4842	42
104.4844	44
104.4846	46
104.4848	48
104.4850	50
104.4852	52
104.4854	54
104.4856	56
104.4858	58
104.4860	60

Ti6Al4V - ISO 5832-3

Autolocking cannulated screws

/ SCREW | Ø8.5MM

Ref.	L. mm
101.8060	60
101.8065	65
101.8070	70
101.8075	75
101.8080	80
101.8085	85
101.8090	90
101.8095	95
101.8100	100
101.8105	105
101.8110	110
101.8115	115

Ti6Al4V - ISO 5832-3

PFF Serie

Complete instruments set

REF. S710
PFF Instruments Case - 1 pc

REF. S711
Ø2.5mm K-Wire Guide - 1 pc

REF. S712
Ø6.2mm Drill Guide / Plate Carrier - 1 pc

REF. S713
Depth Meter - 1 pc

REF. S714
K-Wire Ø2.5mm x 250mm - 2 pcs.

REF. S715
Compression Fork - 1 pc

REF. S721
2.0mm Hex Key for Hook - 2 pcs.

REF. S722
Hook Impactor - 1 pc

REF. S74
6.0mm Cannulated Hex Screwdriver - 1 pc

REF. S79
Ø6.2mm Cannulated Drill Bit, 210mm - 1 pc

REF. -SET-PFF
PFF Complete Instruments set - 1 pc

Femur

Complete instruments set

REF. S503 - Femur Instruments Case - 1 pc

REF. S515 - Ø4.0mm Drill Guide for Rail Screws - 1 pc

REF. S516 - Ø4.0mm Drill Guide for Cortical/MultiAx Screws - 1 pc

REF. S52 - Ø4.0mm Drill Bit, 200mm - 1 pc

REF. S520 - Ø4.0mm Drill Bit, 160mm - 1 pc

REF. S53 - Depth Meter - 1 pc

REF. S534 - K-Wire Ø2.0mm x 200mm - 2 pcs

REF. S540HL - HL20 Hexalobular Screwdriver - 1 pc

REF. S554 - Conical Bushing Disassembler - 1 pc

REF. SET FEMUR - Complete instruments set

REF. S51 - Ø4.0mm Conical Drill Guide - 1 pc

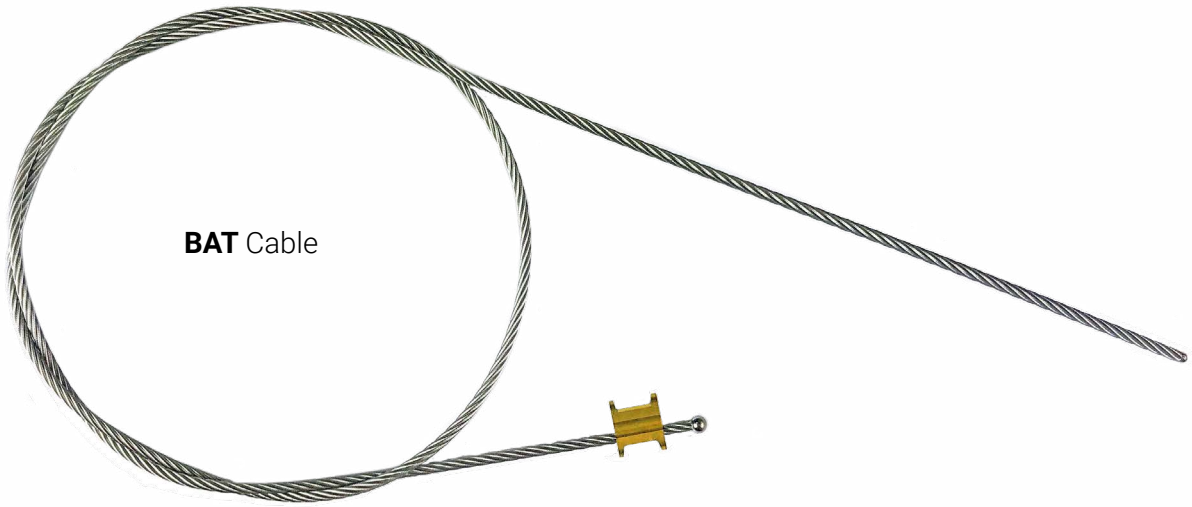
REF. S514 - Ø4.0mm Conical Graduated Drill Guide - 1 pc

REF. S518 - Ø1.5mm K-Wire Sleeve - 1 pc

REF. S56HL - Quick Coupling HL20 Hexalobular Shaft - 1 pc

BATCerclage System

/ BATCABLE



CAT055EN - Rev. 1 February 2026 - © Intrauma S.p.A.

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