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*ORTHOPAEDICS*

**P**ro**M**otion  
Modular Revision Stem



**PRODUCT  
INFORMATION**



# PM ProMotion

Modular Revision Stem

## Versatile system



### Taper

12/14 (top angle 5°42'30")  
BIOLOX approved

- A B** Revision Diaphyseal stems STRAIGHT or CURVED in different lengths and diameters\* with millimetric increments for cementless use.
- C** Revision Diaphyseal stems STRAIGHT (140 e 200mm) in diameters 12,14 and 16mm for cemented use.
- D** DISPLASY Diaphyseal Stem (100mm) in different diameters\* with millimetric increments for primary cementless use.
- E F** Metaphyseal Body STANDARD (130°) and LATERALIZED (127° offset 5mm) in 50, 60 and 70mm lengths.
- G** The Extension Body allows elongation of the total implant length of 30mm.
- H I** Locking Screw with TiN coating: guarantees optimal locking of the components through torque-limiter tightening. The Long version is used with the Extension Body.
- L** Sealing Cap to seal the lodging hole of the Locking Screw (included in the packaging of the Metaphyseal Body).

\* For detailed dimensional informations refer to the reference table.

# PM ProMotion Modular Revision Stem



## Cemented Stem

To be used in those cases where the quality of the bone should not be so good to guarantee an optimal press-fit fixation.

The stem has circular cross-section with longitudinal grooves to ensure rotational stability particularly designed to avoid stress transmission at the cement/prosthesis interface.

Available only in STRAIGHT version in 12, 14 and 16mm diameters and two lengths (140 and 200mm).



## Displasy Stem

Modular solution for primary replacement in cases of deformity such as displasies (CHD) or any other condition with altered anatomy of the proximal femur.

The stem has circular section with longitudinal ribs designed to slightly penetrate into the cortical bone, conferring a high grade of rotational stability and avoiding rotational stress concentration at the bone interface.

Range of diameters from 13 to 22mm in single length (100mm)\*.

\* To be used with SHORT Metaphyseal Body (50mm) Standard or Lateralized.

## Modular construction

Thanks to the modular construction it is possible to achieve a total stem length between 190 and 300mm by combining the Metaphyseal Bodies (50, 60 and 70mm) and the Extension Module (+30mm).



## Free orientation

The metaphyseal body allows total 360° orientation independent of stem positioning.

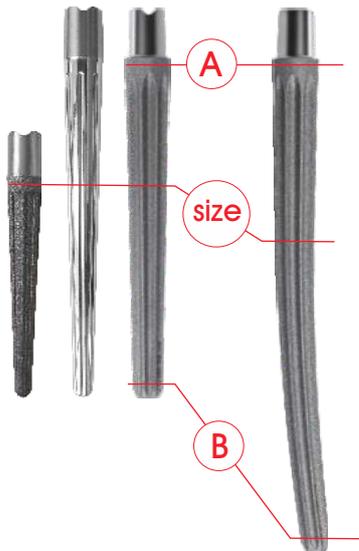


## Safe connection

The connection between the components is ensured by a conical coupling, with torque-limiter controlled tightening and ensured by a Locking Screw.



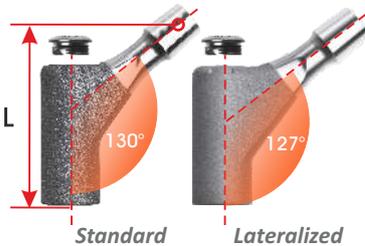
## PM ProMotion - Diaphyseal Stems



Diameters A and B refers to cementless revision stems only

Size Ø	Ø A	Ø B	CEMENTLESS				CEMENTED	
			STRAIGHT 140mm	STRAIGHT 200mm	CURVED 200mm	DISPLASY 100mm	STRAIGHT 140mm	STRAIGHT 200mm
Reference	Reference	Reference	Reference	Reference	Reference	Reference	Reference	
11mm	13mm	7mm	19111*	19131	19211*	-	-	-
12mm	14mm	8mm	19112*	19132	19212*	-	19312	19412
13mm	15mm	9mm	19113	19133	19213	19513*	-	-
14mm	16mm	10mm	19114	19134	19214	19514*	19314	19414
15mm	17mm	11mm	19115	19135	19215	19515*	-	-
16mm	18mm	12mm	19116	19136	19216	19516*	19316	19416
17mm	19mm	13mm	19117	19137	19217	19517*		
18mm	20mm	14mm	19118	19138	19218	19518*		
19mm	21mm	15mm	19119	19139	19219	19519*		
20mm	22mm	16mm	19120	19140	19220	19520*		
21mm	23mm	17mm	19121	19141	19221	19521*		
22mm	24mm	18mm	19122	19142	19222	19522*		

## PM ProMotion - Metaphyseal Body



Cap Screw included in the package

Size	Length L	Standard 130°	Lateralized 127° Offset 5mm
		Reference	Reference
SHORT	50mm	19011	19021
MEDIUM	60mm	19012	19022
LONG	70mm	19013	19023

## Extension Body



Ø mm	stem Size	Reference
20mm	from 13 to 18	19041
22mm	from 19 to 22	19042

## Locking Screws



Size	Reference
SHORT	19097
LONG*	19098

\*To be used with Extension Body

## Informations

**INTENDED PURPOSE:** the PM ProMotion is a modular stem utilized in hip reconstruction interventions combined with a femoral head and an acetabular cup. Device anchorage is achieved through primary press fit stabilization or by using bone cement depending on the stem used. The PM ProMotion is a revision stem with distal anchorage, indicated in cases of revision due to various factors i.e. aseptic loosening and periprosthetic fractures, even in cases of serious bone loss in the proximal region of the femur, wherever the distal region of the femur present a structure still able to guarantee a correct and long lasting primary mechanical anchorage through the press fit technique.

**MATERIALS:** All the components are made of Titanium Aluminium Niobium forged alloy (Ti6Al7Nb) - ISO5832/11

**SURFACE FINISHING:**

**Press-Fit Stems:** Corundum sandblasted microstructured surface (ra 4-6µm).

**Cemented Stems:** polished surface.

**STERILIZATION:**

**Method:** Irradiation (Beta or Gamma rays - nominal dose 25 kGy) or vaporized Hydrogen Peroxide (VH2O2).

**Validity:** 5 years (Beta) - 10 years (Gamma-VH2O2).

**CLASSIFICATION:**

**Class III or IIb** as reported in Directive 2005/50/CE (and related D.lgs 26 april 2007 n.65) concerning re-classification of Hip, Knee and Shoulder joint prostheses which modifies classification criteria of Annex IX of Directive 93/42/CEE and next integrations and amendments.

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