



Peer-reviewed Journal Articles for the PROFEMUR®  
RENAISSANCE® and Similar Cylindrical Design  
Philosophy Stems

1. Kurtz W.; *In Situ Leg Length Measurement Technique in Hip Arthroplasty*; *Journal of Arthroplasty*, 2011

2. Steppacher S., Ecker T., Tannast M., and Murphy S.; *Alumina Ceramic-on-Ceramic Total Hip Arthroplasty in Patients 50 Years and Younger* In: Cobb J. (ed), *Modern Trends in THA Bearings. Material and Clinical Performance*. Springer, 2010, pp. 85-90

3. Matsushita I., Morita Y., Ito Y., Gejo R., and Kimura T.; *Activities of daily living after total hip arthroplasty: Is a 32-mm femoral head superior to a 26-mm head for improving daily activities?*; *International Orthopaedics (SICOT)* (2011) 35:25-29

4. Steppacher S., Ecker T., Tannast M., and Murphy S.; *Absence of Osteolysis in Uncemented Alumina Ceramic-on-Ceramic THA in Patients Younger Than 50 Years After Two to 14 Years*; *Seminars in Arthroplasty*; December, 2011; Vol. 22, No. 4, pp. 248-253



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*Simply Versatile.*



PROFEMUR®  
RENAISSANCE  
Hip System

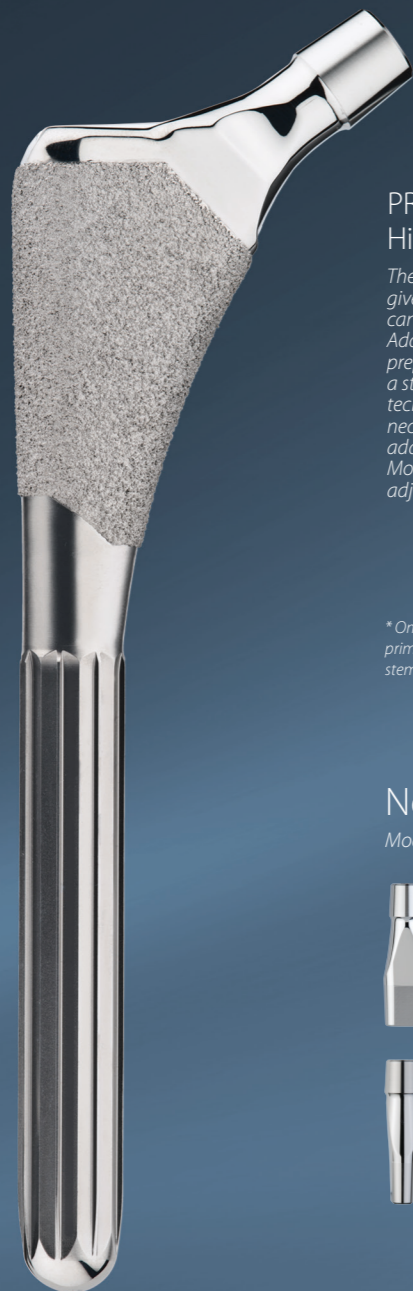


PROFEMUR® RENAISSANCE® Hip System  
Simply Versatile.

Intra-operative Flexibility  
One set of instruments for multiple stems

Multiple Neck Options  
Monolithic and modular necks accommodate anatomical differences

Established Stem Philosophy  
Incorporating features that have been in the market for several years



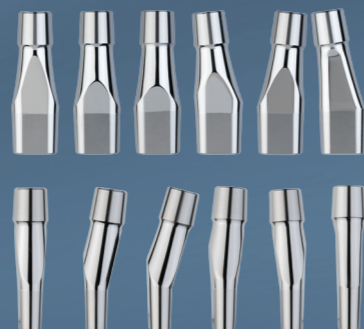
PROFEMUR® RENAISSANCE® Hip Stems

The PROFEMUR® RENAISSANCE® hip stem was designed to give rigid fixation in the diaphyseal region of the femoral canal, thereby providing immediate structural support. Additionally, the instruments were designed to accomplish preparation of the canal and insertion of the implant using a straightforward and reproducible ream-and-broach technique. The versatility of both monolithic and modular neck designs allows for a customizable reconstruction\* and addresses soft tissue tension for a range of patient anatomies. Modular necks provide the added utility of allowing adjustments to be made after stem implantation.

\* Omlor, et al; Summary: A stature-specific concept for uncemented, primary total hip arthroplasty: 10-year results in 155 patients using two stem shapes and modular necks; Acta Orthopaedica Nov. 2010

Neck Options

Modular neck to accommodate anatomical differences.



Design Features of the PROFEMUR® RENAISSANCE® Hip Stems

Neck Options

Include short Classic versions with Standard (135° CCD) and Extended (127° CCD) neck angles, along with several long and short modular versions allowing for multiple head center positions to meet range of anatomical needs

Driving Platform

On Classic stems, dimple designed for uni-directional loading during stem insertion and oval slot designed for rotational control during stem insertion; on modular stems, threaded slot designed for rotational control during stem insertion

Lateral Shoulder

Rounded lateral shoulder designed to ease stem insertion and minimize risk of fracture during insertion

Surface

Titanium stem surface has glass-beaded texture

Distal Splines

Designed to provide additional .5mm press-fit (0.25mm per side) for rotational stability

Plasma Spray

Coating thickness provides 1mm (0.5mm per side) additional press-fit

Sizes

Available in Reduced Flare, Sizes 10-16, and Standard Flare, Sizes 10-18

Rounded Distal Tip

Round distal tip designed to reduce the risk of fracture during insertion and minimize point contact after implantation

Distal Slot

Minimizes stem stiffness to discourage fracture during stem insertion

Stem Inserters

PROFEMUR® Threaded In-Line Stem Inserter (P/N PRFS1461); for modular stems only) designed to provide rotational control; Final Stem Impactor (P/N PPF60200; for Classic stems only) designed for uni-directional loading; PROFEMUR® Classic Stem Impactor (P/N PRCLIMPT; for Classic stems only) designed to provide rotational control

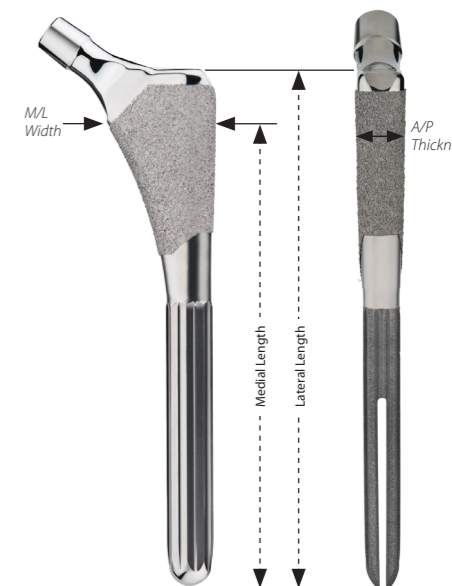
PROFEMUR® RENAISSANCE® Stems General Specifications

- Stems are made of Titanium material with commercially pure Titanium plasma coating proximally (0.5mm/side), resulting in 0.5mm total press-fit
- Medial Stem Length: 125 - 170mm
- M/L Width: 27 - 40mm
- Distal splines are 1mm larger than matching reamer
- Classic Standard neck angle is 135°
- Classic Extended neck angle is 127°

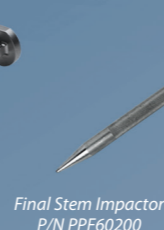
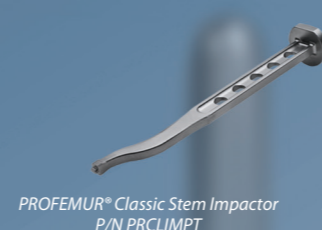
PROFEMUR® RENAISSANCE® Modular and Classic Stems

Size	Medial Length	Lateral Length	Neck Angle (Classic)	M/L Width	Flare
10	125	145	127°/135°	29	Standard
11	130	150	127°/135°	31	Standard
12	135	155	127°/135°	33	Standard
13	140	160	127°/135°	35	Standard
14	145	165	127°/135°	36	Standard
15	150	170	127°/135°	37	Standard
16	155	175	127°/135°	38	Standard
17	160	180	127°/135°	39	Standard
18	170	190	127°/135°	40	Standard
10	125	145	127°/135°	27	Reduced
11	130	150	127°/135°	29	Reduced
12	135	155	127°/135°	31	Reduced
13	140	160	127°/135°	32	Reduced
14	145	165	127°/135°	33	Reduced
15	150	170	127°/135°	34	Reduced
16	155	175	127°/135°	35	Reduced

NOTE: The dimensional chart above represents the PROFEMUR® RENAISSANCE® and PROFEMUR® RENAISSANCE® Classic stems. The Neck Angles are representative of the Classic stems only.



Individual results and activity levels after surgery vary and depend on many factors including age, weight and prior activity level. There are risks and recovery times associated with surgery and there are certain individuals who should not undergo surgery.



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