


**PROFEMUR GLADIATOR® 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

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**Design Features of the PROFEMUR® GLADIATOR® Cemented Stem**

**Neck Options**
- Include several long and short modular designs allowing for modular head center positions in the range of anatomical necks

**Driving Platform**
- Design intended for rotational control during stem insertion

**Lateral Shoulder**
- Design intended to conserve bone and ease insertion

**Distal Centralizer**
- Available in sizes 4, 6, 8, 10, and 12

**Surface**
- Glass beaded smooth surface

**Sizes**
- Available in sizes 4, 6, 8, 10, and 12

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**Design Features of the PROFEMUR® GLADIATOR® HA Collared Stem**

**Neck Options**
- Include several long and short modular designs allowing for modular head center positions in the range of anatomical necks

**Driving Platform**
- Design intended for rotational control during stem insertion

**Lateral Shoulder**
- Reduced profile helps to conserve bone and ease insertion

**Surface**
- Hydroxyapatite full surface coating (65um nominal thickness)

**Sizes**
- Available in sizes 7 - 10

**Macro-Features**
- Vertical designed with intent to assist with additional rotational control during stem insertion
- Distal Bullet
  - Design intended for shape optimization to minimize the risk of fracture during stem insertion and to assist with additional rotational control after implantation

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**Design Features of the PROFEMUR® GLADIATOR® Plasma Stem**

**Neck Options**
- Include several long and short modular designs allowing for modular head center positions in the range of anatomical necks

**Driving Platform**
- Design intended for rotational control during stem insertion

**Lateral Shoulder**
- Reduced profile helps to conserve bone and ease insertion

**Surface**
- Plasma spray design intended to provide 1mm press-fit (0.5mm/side)

**Sizes**
- Available in sizes 1 - 10 in Standard and Extended (135° CCD) neck angles, respectively

**Macro-Features**
- Vertical designed with intent to assist with additional rotational control during stem insertion
- Distal Bullet
  - Design intended for shape optimization in an effort to reduce the risk of fracture during stem insertion and to assist with additional rotational control after implantation

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**Final Stem Impactor (P/N PPF60200) designed for uni-directional loading; PROFEMUR® Screwdriver Inserter (P/N PRFS0460; for modular stems only) designed for uni-directional loading; rotational control during stem insertion, respectively**

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**Similar tapered wedge stem designs have been in the market for years utilizing a geometry designed to provide metaphyseal fit and a roughened surface to assist initial fixation in a cementless application.**

In addition, the thin profile of the lateral shoulder of the stem encourages minimal bone removal and facilitates minimal tissue disruption during surgery. In short, the combination of these features is designed with intent for greater potential for the following:
- Firm mediolateral fit within the femoral canal
- Initial fixation due to the roughened surface
- Easy insertion during implantation and more bone in the event of a revision due to the thin profile of the lateral shoulder
- Minimal trauma during the procedure due to the reduced cross-sectional size

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**PROFEMUR GLADIATOR® Hip Stems**

**General Specifications**

- Cementless stems are made of Titanium alloy material
- Cemented stems are made of Cobalt Chrome material
- Proximal coating is made of commercially-pure Titanium plasma spray (0.5mm/side)
- M/L Width: 27 – 38mm
- A/P Thickness: 12 – 19mm
- Classic: Standard neck angle is 135°
- Classic: Extended neck angle is 127°
- Broaches are designed to provide a cement mantle measuring 1.5mm/side

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**PROFEMUR GLADIATOR® Hip Stems (mm)**

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<th>Cemented Size</th>
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<th>Lateral Length</th>
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**Individual results and activity levels after surgery vary and depend on many factors including age, weight, and pre-operative activity level. There are risks and recovery times associated with surgery, and there are certain individuals who should not undergo surgery.**