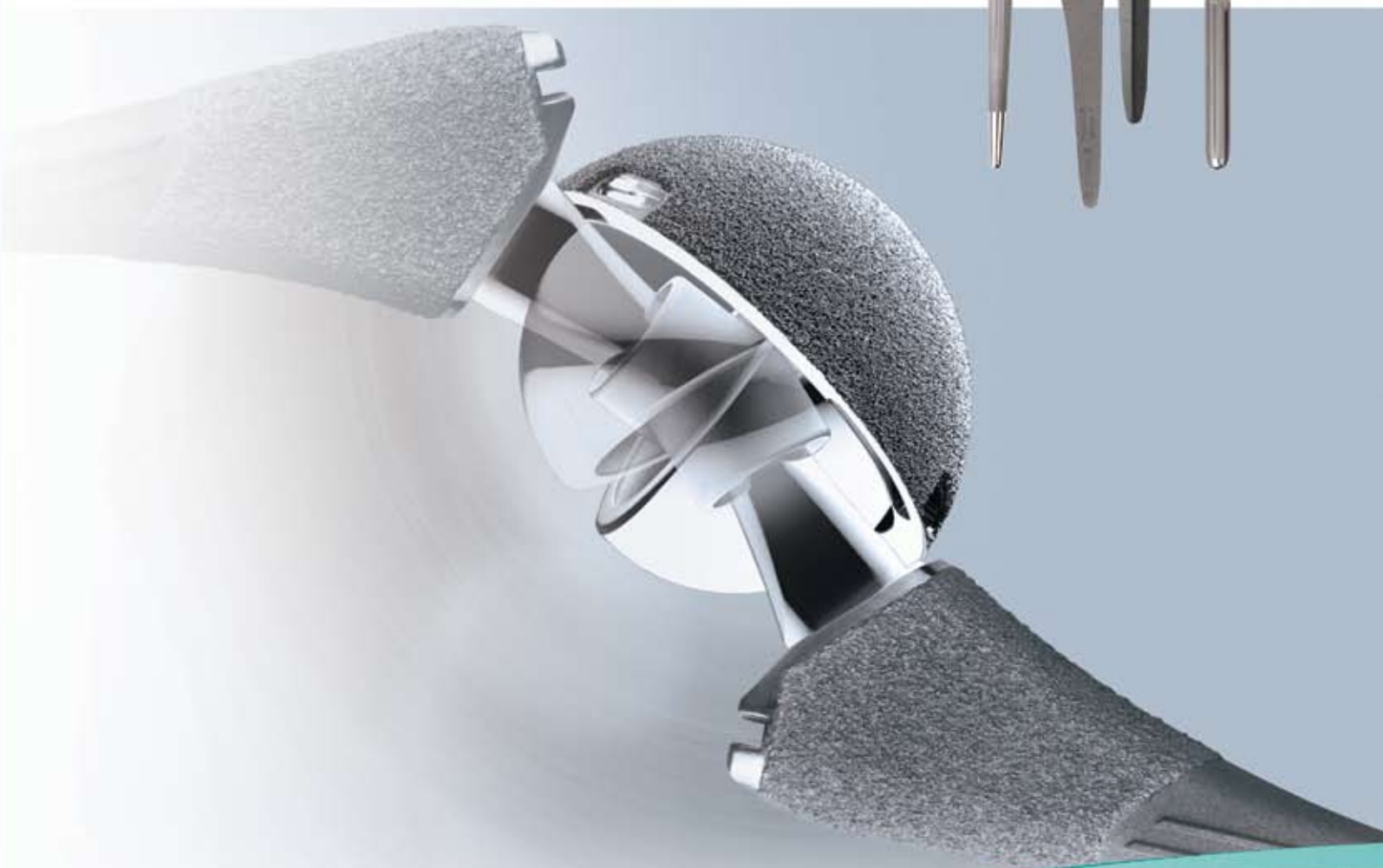
PROFEMUR®

Total Hip System

PRODUCT CATALOG



WRIGHT.

The PROFEMUR® Total Hip System

Superior Product

Modular Neck Technology

» Seat stem in best possible bone stock

» Control leg length, offset, and version

Multiple Stem Options

» PROFEMUR® Plasma Z Hip Stem

» PROFEMUR® Z Hip Stem

» PROFEMUR® T Hip Stem

» PROFEMUR® RENAISSANCE®

» PROFEMUR® R Hip Stem

» PROFEMUR® RAZ Hip Stem

» PROFEMUR® LX Hip Stem

» PROFEMUR® X^m Hip Stem

» PROFEMUR® TL Hip Stem

Ease of Use

Multiple Broach-Only Techniques

» PROFEMUR® Plasma Z Hip Stem

» PROFEMUR® Z Hip Stem

» PROFEMUR® TL Hip Stem

» PROFEMUR® RAZ Hip Stem

» PROFEMUR® X^m Hip Stem

Modular Neck Technology

» Intraoperative flexibility

Tissue-Preserving Implants

» Streamlined implants for tissue sparing insertion

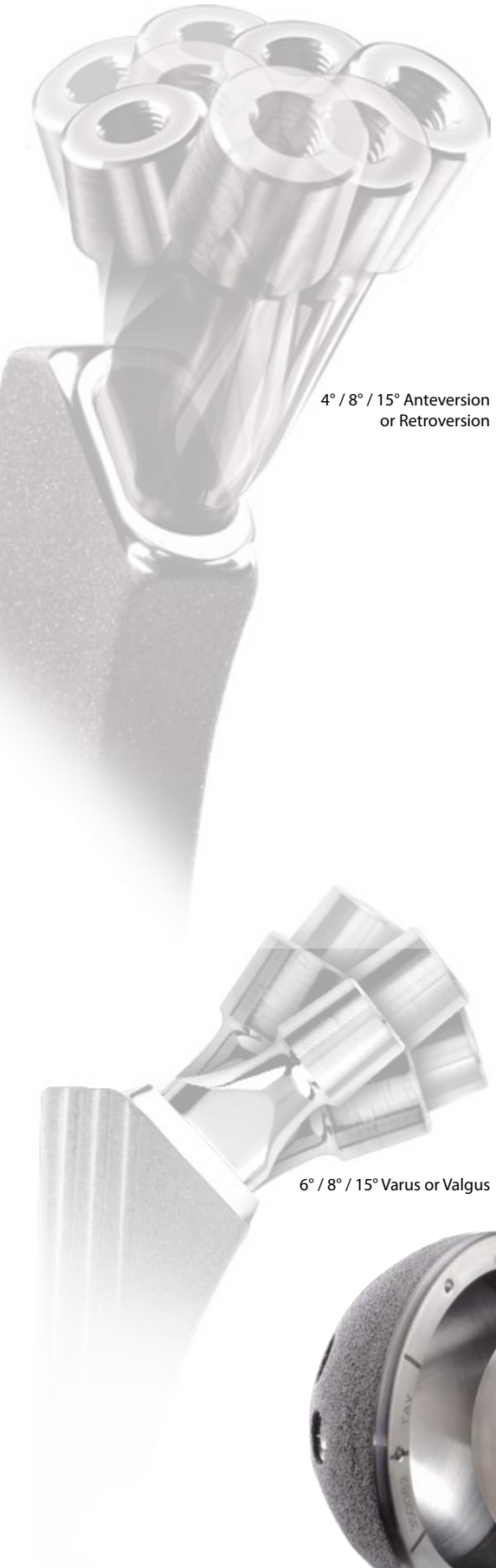
Modular Necks - Optimal Restoration of Normal Hip Biomechanics

» Leg length

» Varus, Valgus

» Anteversion, Retroversion

PROFEMUR® Total Hip Modular Neck System



4° / 8° / 15° Anteversion or Retroversion

Technology You Can Trust …

» Over 80,000 modular necks implanted worldwide since 1985.[1]

… And Use

» Avoid impingement – Improved ROM results in decreased dislocation

» Independently adjust leg length and offset

» Correct minor variations in cup position without changing stem version

» Minimize incision and soft tissue trauma

6° / 8° / 15° Varus or Valgus

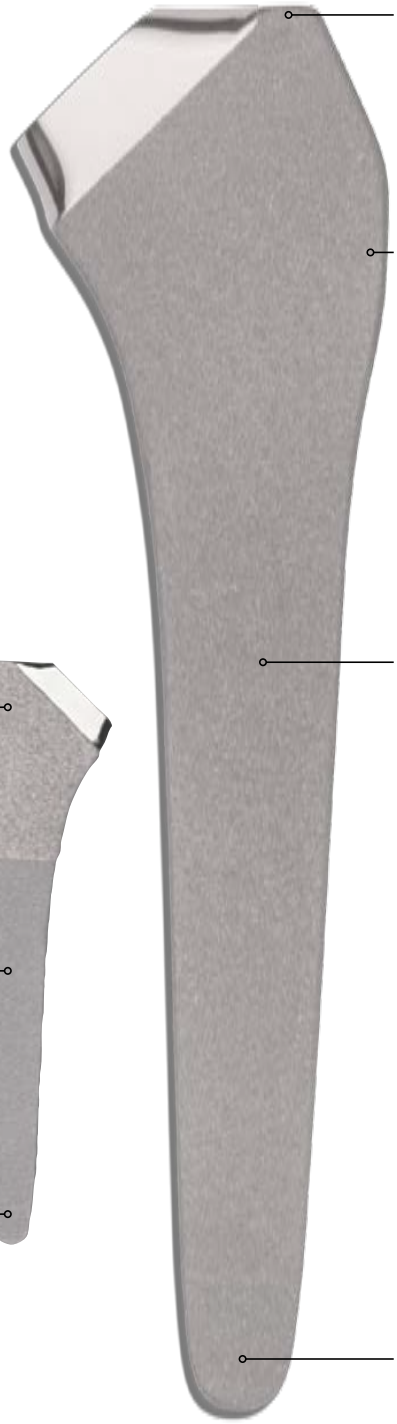
1. Data on file at Wright.

Utilize PROFEMUR® Modular Necks with Wright's DYNASTY® Acetabular Cup System and CONSERVE® Total Hip System.

PROFEMUR® Z / Plasma Z Hip Stems

Abbreviated Technique: Broach-only
Sequentially broach for optimal fit
Implant size corresponding to broach size

Ordering Information:	
Templates	PRFZ-XR15
Surgical Technique	MH 004-104
Instruments	4251-KIT1 PRZS-KIT2 (In-line Broaches)
Implants	4251-KITA (Z) 4251-KITB (Plasma Z) 3251-KITN (Mod. Necks)



Driving Platform
Dimpled driving platform for stem insertion

Trochanteric Wing
Increased trochanteric wing contributes to proximal fill and rotational stability

Rectangular Cross-Section
Provides rotational stability and conserves bone for increased vascularization

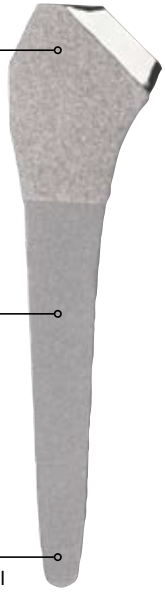
Dual Taper Geometry
Provides optimal primary fixation and load transfer

Surface Roughness
Heavy grit blast texture (6Ra µm) of titanium stem promotes bone ongrowth and implant stability

Sizes
Available in sizes 1-9

Rounded Distal Tip
Reduces the potential for thigh pain

Plasma Z



Plasma Spray
Provides additional .5mm press-fit (.25mm per side) for initial stability and long-term ingrowth

Surface Roughness
Heavy grit blast texture (6Ra µm) of titanium stem promotes bone ongrowth and implant stability

Rounded Distal Tip
Reduces the potential for thigh pain

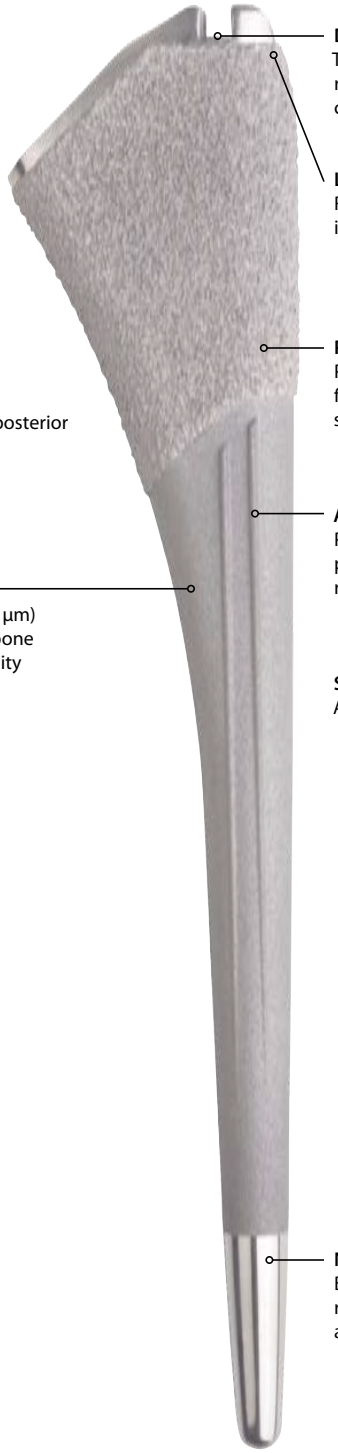
PROFEMUR® T Hip Stem

Proximal Loading Stem:

- Maintains physiologic stress on the proximal femur
- Reduces stress shielding
- Provides axial and rotational stability
- Self-stabilizing geometry

Abbreviated Technique: Ream and Broach
Ream to templated size or cortical chatter
Broach to corresponding reamer size
Implant size corresponding to broach size

Ordering Information:		
Templates	PRFT-XR15	
Surgical Technique	MH 137-604	
Instruments	PRGI-KIT1	(General)
	PRTB-KIT1	(Reamers/Broaches)
	PTSB-KIT1	(Slotted Reamers/ Broaches)
Implants	6251-KITI	(Stems)
	3251-KITN	(Modular Necks)



Driving Platform
Threaded driving platform for rotational and axial implant control during insertion

Lateral Shoulder
Rounded lateral shoulder eases stem insertion and minimizes risk of fracture

Plasma Spray
Provides additional .5mm press-fit (.25mm per side) for initial stability and long-term ingrowth

Proximal Taper
3° proximal anterior/lateral/posterior taper improves proximal fill

Anti-Rotation Splines
Provides additional 1.5mm press-fit (.75mm per side) for rotational and torsional stability.

Surface Roughness
Heavy grit blast texture (5Ra µm) of titanium stem promotes bone ongrowth and implant stability

Sizes
Available in Sizes 9-18

Narrow Distal Taper
Bullet-shaped, polished tip reduces potential for thigh pain and minimizes reaming

PROFEMUR® RENAISSANCE®
Hip Stem

Abbreviated Technique: Ream and Broach
Ream to templated size
Sequentially broach with reduced flare broaches to corresponding reamer size
If fit is not secure, switch to standard flare broach or ream and broach to larger stem size
Implant size and flare corresponding to broach size and flare

Ordering Information:	
Templates	PLS0-XR15
Surgical Technique	MH 143-405
Instruments	PRGI-KIT1 (General) PLRE-KIT1 (Reamers) PLBR-KIT1 (Broaches)
Implants	PLIM-KITA (Stems) 3251-KITN (Modular Necks)

Driving Platform
Threaded driving platform for rotational and axial implant control during insertion

Lateral Shoulder
Rounded lateral shoulder eases stem insertion and minimizes risk of fracture

Proximal Taper
3° proximal anterior/ lateral/posterior taper improves proximal fill

Flare
Standard and Reduced flare options ensure metaphyseal fit

Surface Roughness
Light grit blast texture of titanium stem promotes bone ongrowth and implant stability

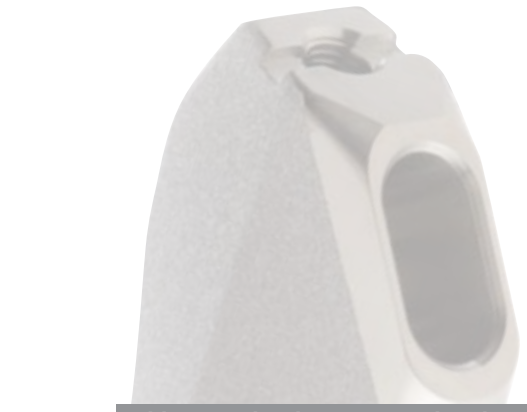
Distal Splines
Provide additional 1mm press-fit (.5mm per side) for rotational stability

Distal Slot
Reduces potential for thigh pain and risk of fracture during stem insertion

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

$CaSO_4$-coated PROFEMUR® RENAISSANCE® Stem also available

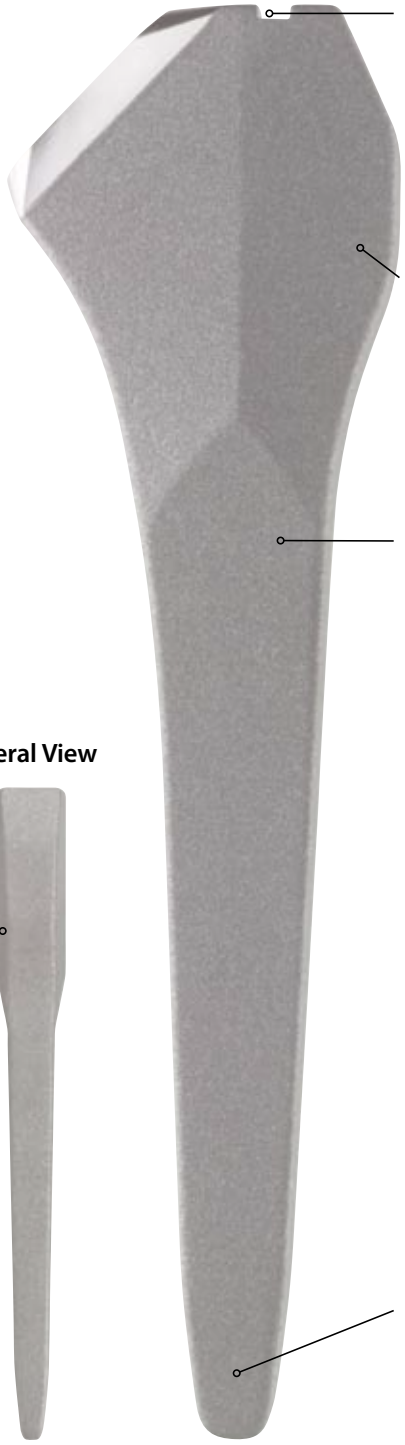
Distal Bullet Tip
Round distal tip reduces stress between implant and bone, decreasing potential for thigh pain and risk of fracture during stem insertion



PROFEMUR® RAZ
Hip Stem

Abbreviated Technique: Broach-only
Sequentially broach for optimal fit
Implant size corresponding to broach size

Ordering Information:	
Templates	PYRD-XR15
Surgical Technique	MH 281-905
Instruments	PRGI-KIT1 (General) PYRD-KIT1 (Broaches)
Implants	PYRD-KITA (Stems) 3251-KITN (Mod. Necks)



Driving Platform
Threaded driving platform for rotational and axial implant control during insertion

Trochanteric Wing
Increased trochanteric wing contributes to proximal fill and rotational stability

Rectangular Cross-Section
Provides rotational stability and conserves bone for increased vascularization

Surface Roughness
Heavy grit blast texture (6Ra mm) of titanium stem promotes bone ongrowth and implant stability

Dual Taper Geometry
Provides optimal primary fixation and load transfer

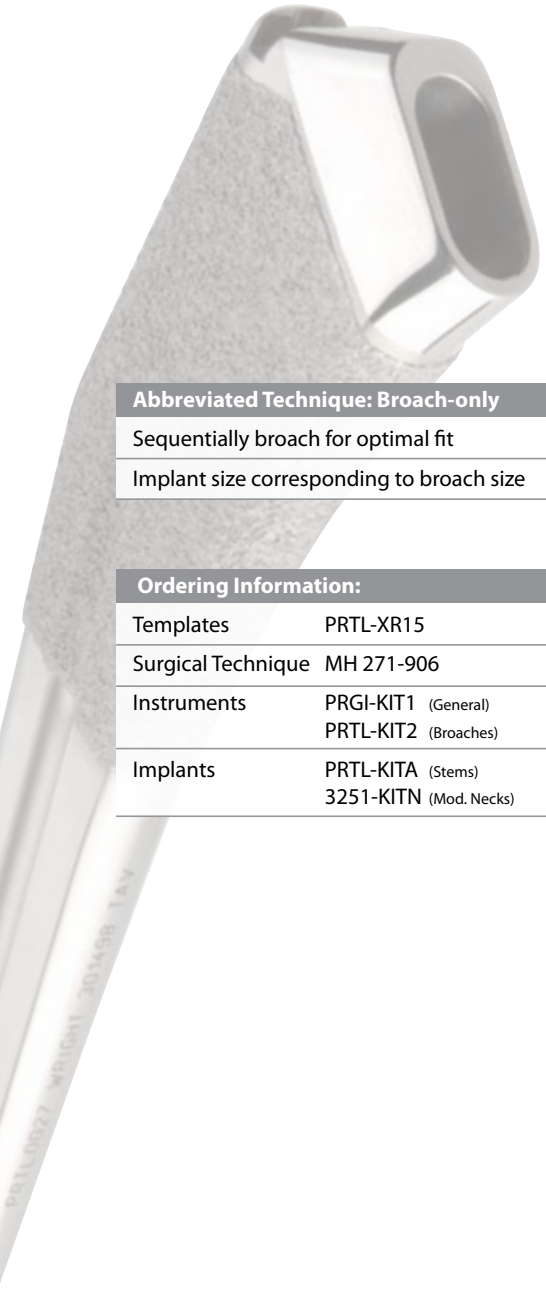
Lateral View

Proximal A/P Surface
Increased material contributes to proximal fill and rotational stability

Sizes
Available in Sizes 1-9

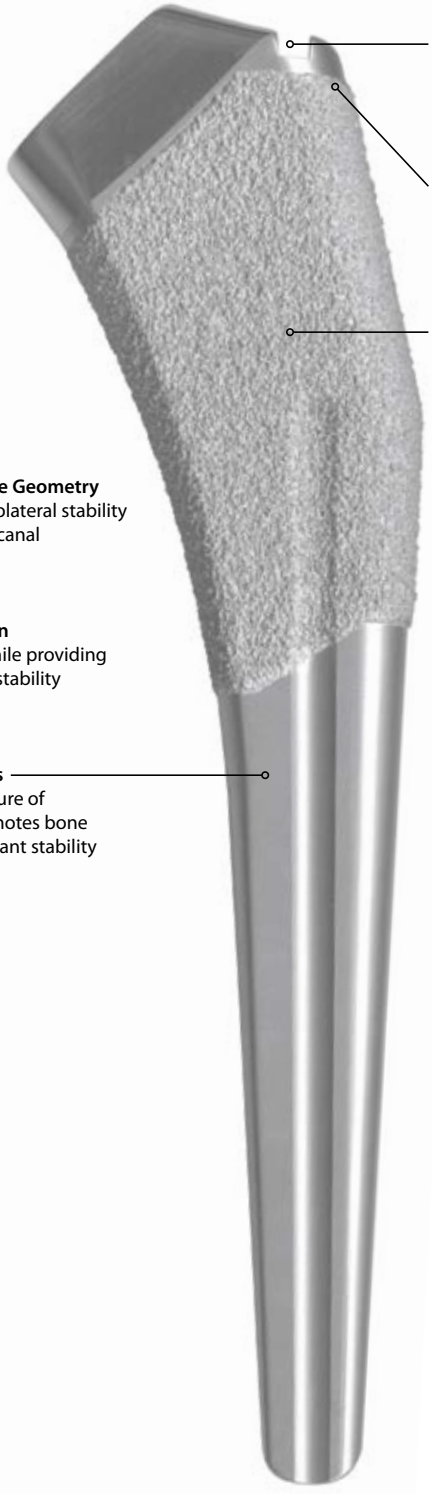
Rounded Distal Tip
Reduces the potential for thigh pain

PROFEMUR® TL Hip Stem



Abbreviated Technique: Broach-only
Sequentially broach for optimal fit
Implant size corresponding to broach size

Ordering Information:	
Templates	PRTL-XR15
Surgical Technique	MH 271-906
Instruments	PRGI-KIT1 (General) PRTL-KIT2 (Broaches)
Implants	PRTL-KITA (Stems) 3251-KITN (Mod. Necks)



Driving Platform
Dimpled driving platform for stem insertion

Lateral Shoulder
Reduced material helps to conserve bone and ease insertion

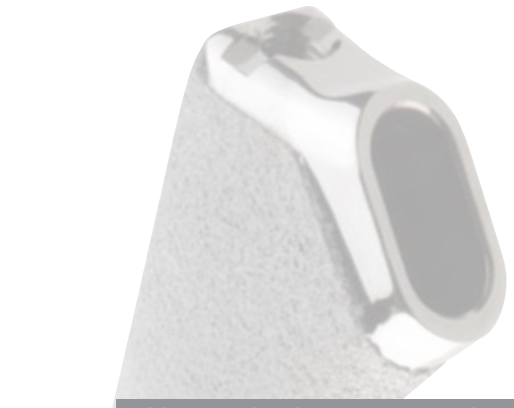
Plasma Spray
Provides additional .5mm press-fit (.25mm per side) for initial stability and long-term ingrowth

Flat Tapered Wedge Geometry
Provides firm mediolateral stability within the femoral canal

Slim A/P Dimension
Conserves bone while providing excellent torsional stability

Surface Roughness
Light grit blast texture of titanium stem promotes bone ongrowth and implant stability

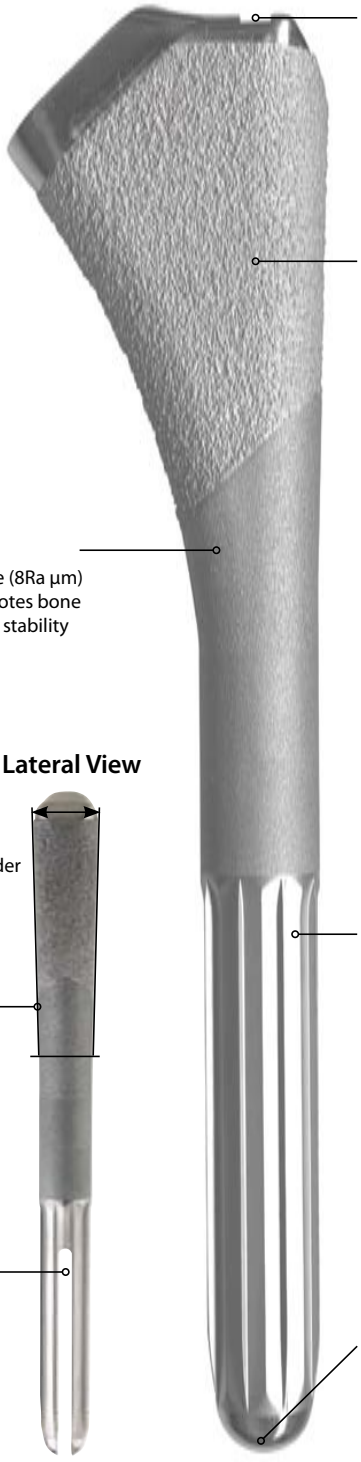
Sizes
Available in Sizes 1-12



PROFEMUR® LX Hip Stem

Abbreviated Technique: Ream and Broach
Ream to templated size or cortical chatter
Broach to corresponding reamer size
Implant size corresponding to broach size

Ordering Information:	
Templates	PLX0-XR15
Surgical Technique	MH 282-905
Instruments	PRGI-KIT1 (General) PRLX-KIT1 (Broaches) PRLX-KIT2 (Reamers)
Implants	PRLX-KITA (Stems) 3251-KITN (Mod. Necks)



Driving Platform
Threaded driving platform for rotational and axial implant control during insertion

Plasma Spray
Provides additional .5mm press-fit (.25mm per side) for initial stability and long-term ongrowth

Surface Roughness
Heavy grit blast texture (8Ra µm) of titanium stem promotes bone ongrowth and implant stability

Sizes
Available in Sizes 11-19

Lateral View

Lateral Shoulder
Rounded lateral shoulder eases stem insertion and minimizes risk of fracture

Proximal Taper
3° proximal anterior/ lateral/posterior taper improves proximal fill

Distal Splines
Provide additional 0.25mm press-fit for rotational stability

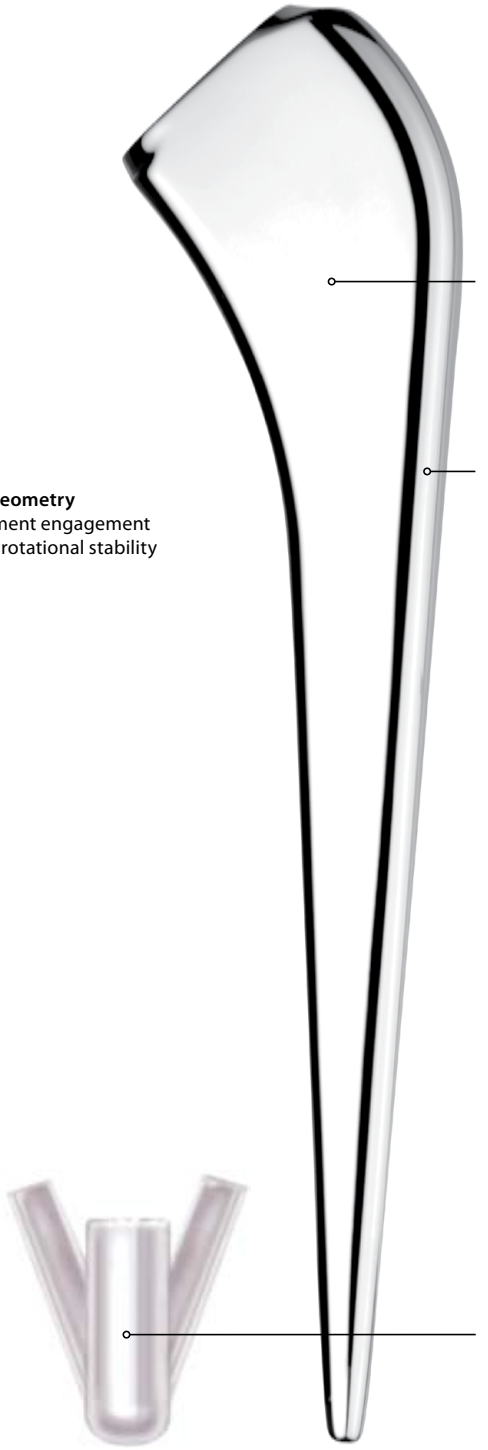
Distal Slot
Reduces potential for thigh pain and risk of fracture during stem insertion

Distal Bullet Tip
Round distal tip reduces stress between implant and bone, decreasing potential for thigh pain and risk of fracture during stem insertion

PROFEMUR® X^{m} Hip Stem

Abbreviated Technique: Broach-only
Sequentially broach for optimal fit
Implant size corresponding to broach size (Broach prepares for 2mm circumferential cement mantle)

Ordering Information:	
Templates	PRXM-XR15
Surgical Technique	MH 260-906
Instruments	PXTR-KIT1 (Broaches) 4251-KIT1 (General)
Implants	PHA0-6000 (Sz. 0) PHA0-6002 (Sz. 1) PHA0-6004 (Sz. 2) PHA0-6006 (Sz. 3) PHA0-6008 (Sz. 4) 3251-KITN (Mod. Necks)



Surface
Highly polished, forged CoCr stem reduces friction at the cement-implant interface, reducing the potential for wear

Rounded Edges
Promotes radial compressive loading

Dual Taper Geometry
Promotes cement engagement and provides rotational stability

Sizes
Available in sizes 0-4

Distal Centralizers
Allow distal stem engagement within the cement mantle

Neck Options

Current Neck

Current Neck	Short Straight		Long Straight		Valgus Short		Varus Short		Valgus Long		Varus Long	
Short Straight			**Leg Length** +7.5	**Offset** +7.5	**Leg Length** +3	**Offset** -2	**Leg Length** -2	**Offset** +3	**Leg Length** +11	**Offset** +4	**Leg Length** +4	**Offset** +11
Long Straight	Leg Length -7.5	Offset -7.5			Leg Length -4.5	Offset -9.5	Leg Length -9.5	Offset -4.5	Leg Length +4	Offset -3	Leg Length -3	Offset +4
Valgus Short	Leg Length -3	Offset +2	Leg Length +4.5	Offset +9.5			Leg Length -5	Offset +5	Leg Length +8.5	Offset +6.5	Leg Length +1.5	Offset +13.5
Varus Short	Leg Length +2	Offset -3	Leg Length +9.5	Offset +4.5	Leg Length +5	Offset -5			Leg Length +13.5	Offset +1.5	Leg Length +6.5	Offset +8.5
Valgus Long	Leg Length -11.5	Offset -4	Leg Length -4	Offset +3	Leg Length -8.5	Offset -6.5	Leg Length -13.5	Offset -1.5			Leg Length -7	Offset +7
Varus Long	Leg Length -4	Offset -11.5	Leg Length +3	Offset -4	Leg Length -1.5	Offset -13.5	Leg Length -6.5	Offset -8.5	Leg Length +7	Offset -7		

Chart Rules:

1. Changing from a neutral neck to an anteverted/retroverted neck does not significantly change leg length or offset (as long as neck length stays the same).
   a. Treat A/R 8° and A/R 15° necks just like straight necks.
   b. Treat ARVV1 and ARVV2 necks just like varus or valgus necks, depending upon hip*

2. A change in femoral head neck length, increases or decreases both leg length and offset by 2.5mm (assuming no neck change).
   a. Going from a Medium head to a Long head, increases both leg length and offset by 2.5mm.
   b. Going from a Medium head to a Xtra Long head, increases both leg length and offset by 5mm.
   c. Going from a Medium head to a Xtra-Xtra Long head, increases both leg length and offset by 7.5mm.
   d. Going from a Medium head to a Short head, decreases both leg length and offset by 2.5mm.

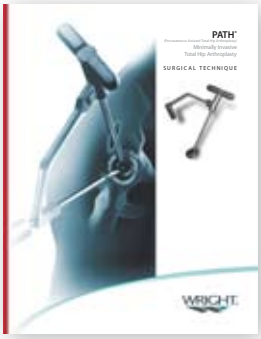
* Modular neck chart should be used to approximate changes in leg length and offset. Ultimately, final neck selection should be based on intraoperative evaluation of joint stability during trial reduction.

Additional Products

To Preserve Tissue, Use

PATH®
Tissue-Preserving Total Hip Arthroplasty

PATH - KIT3	PATH® General instruments
PHRM – KIT1	PATH® Reamer baskets
PBFH – KIT1	PATH® BFH® Suction Impactor and Alignment Handles



MH039-105
PATH® Surgical Technique

MH313-1006
PATH® Surgical Animation DVD

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