

# Knee Marketing Module

# Knee Portfolio

U2™ Total Knee System

U2 PSA™ Revision Knee

USTARII™ Primary and Revision  
Hinge Knee

USTARII™ Limb Salvage System

The U2 PSA (Posterior Stabilized Augmentable) Revision Knee system can be used with various augments and extension stems to restore joint stability and address bone loss, allowing surgeons the possibility for an optimal solution for each individual patient.

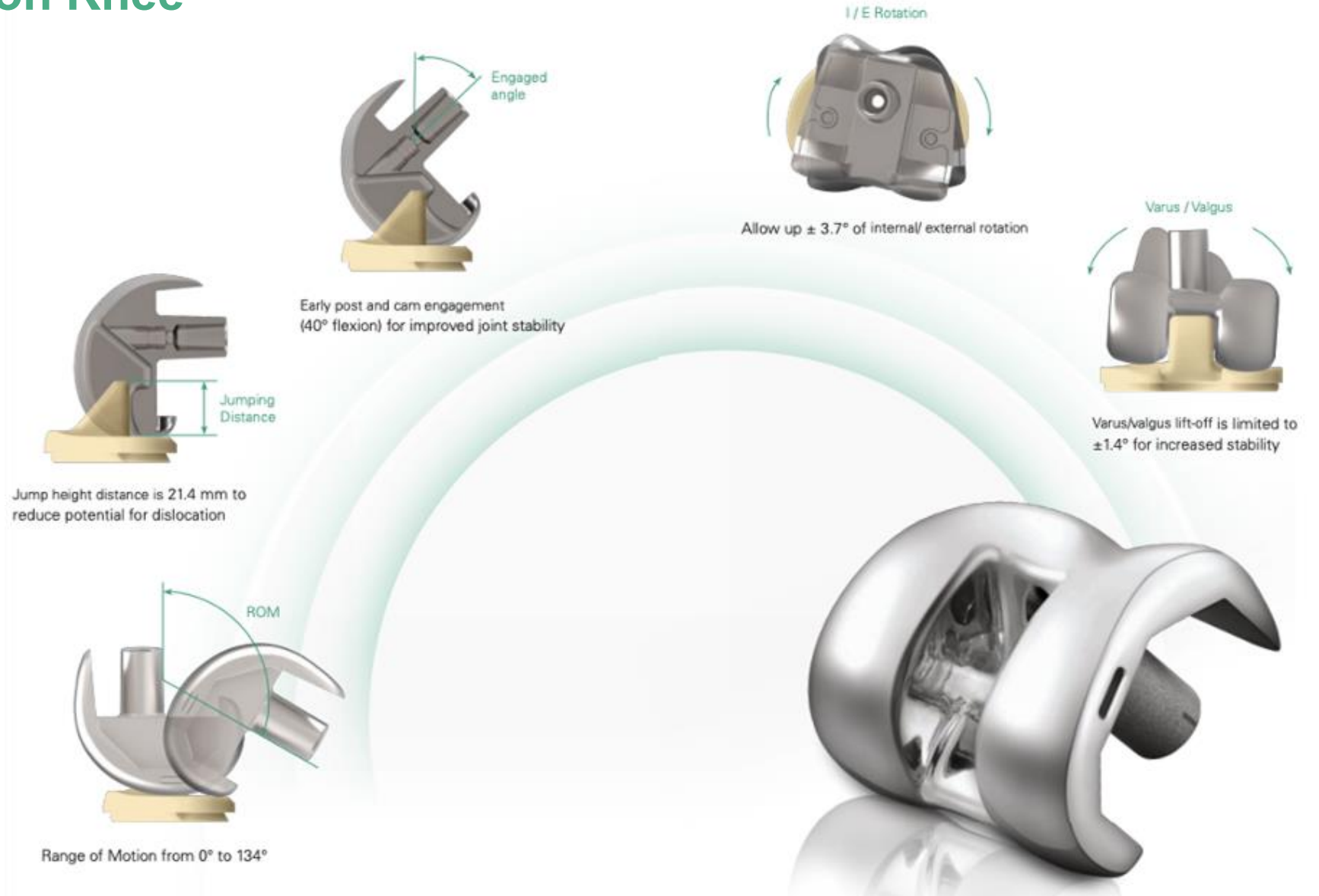


# The U2 PSA™ Revision Knee System

Offers a wide range of revision component options.

Designed for improved in joint stability with an increased constrained geometry design.

Features a patented screw locking mechanism.

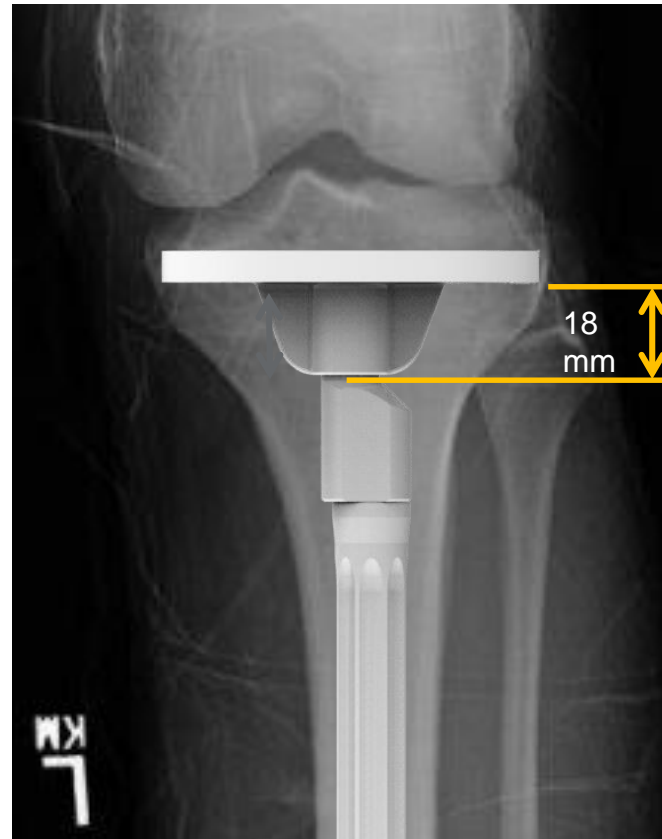


# PSA Knee System. Novel *low-profile* tibial baseplate design.

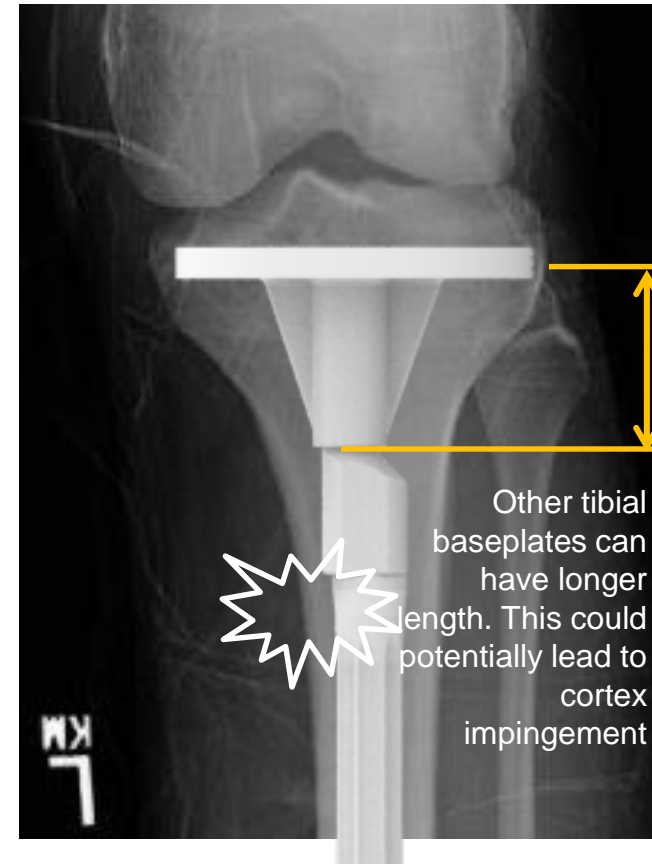
**Reduced 18 mm tibial stem length.** Designed to allow use of the offset adaptor with a stem extension without cortex impingement.



PSA Revision Knee System tibial baseplate.



PSA Revision Knee System tibial baseplate with offset adaptor.

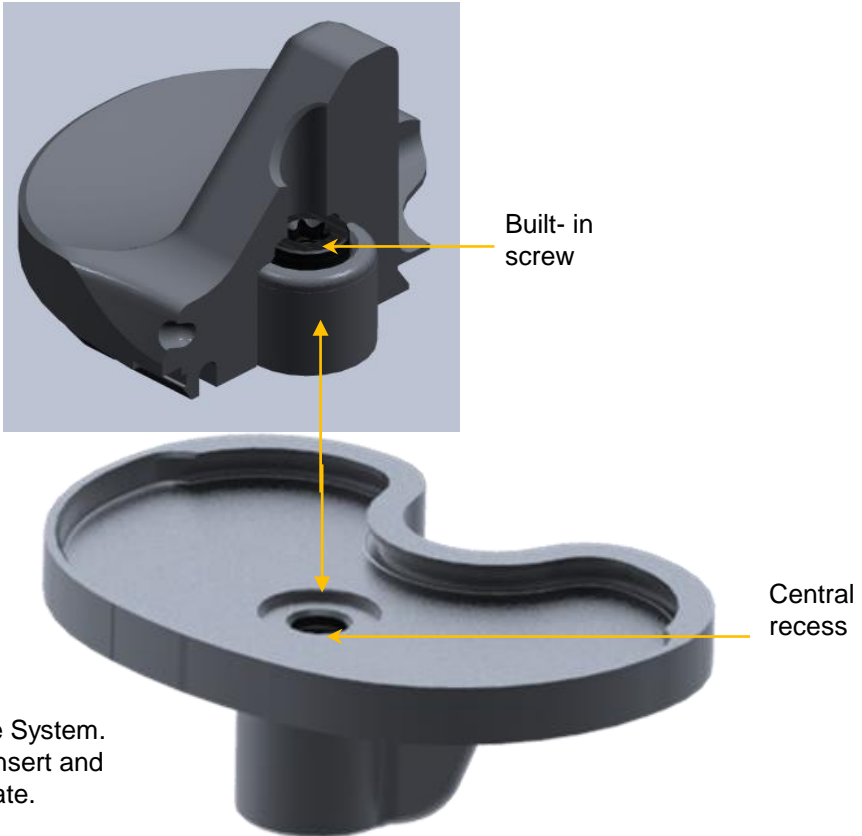


Other tibial baseplates can have longer length. This could potentially lead to cortex impingement

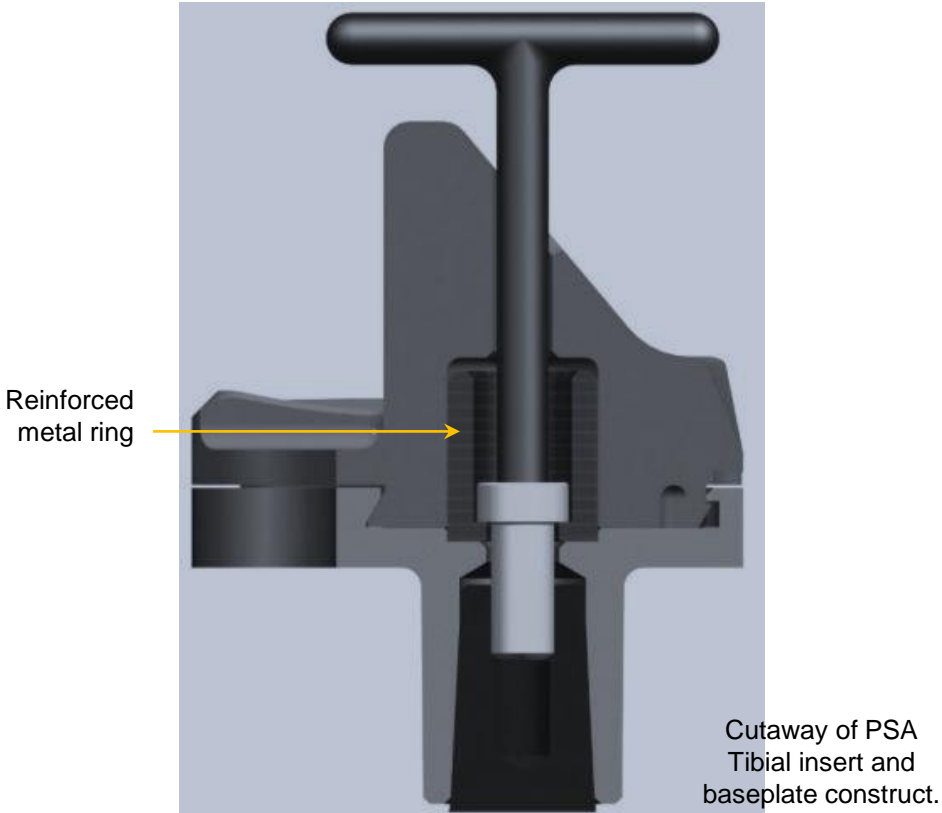
Generic knee system tibial baseplate.

# PSA Knee System. Novel C-Ring locking screw for a **'No Back-out'** Screw Design.

**Built-in reinforced metal ring.** Designed to reduce the potential for shear on the tibial insert.



PSA Revision Knee System.  
Cutaway of Tibial Insert and  
Tibial baseplate.



Cutaway of PSA  
Tibial insert and  
baseplate construct.

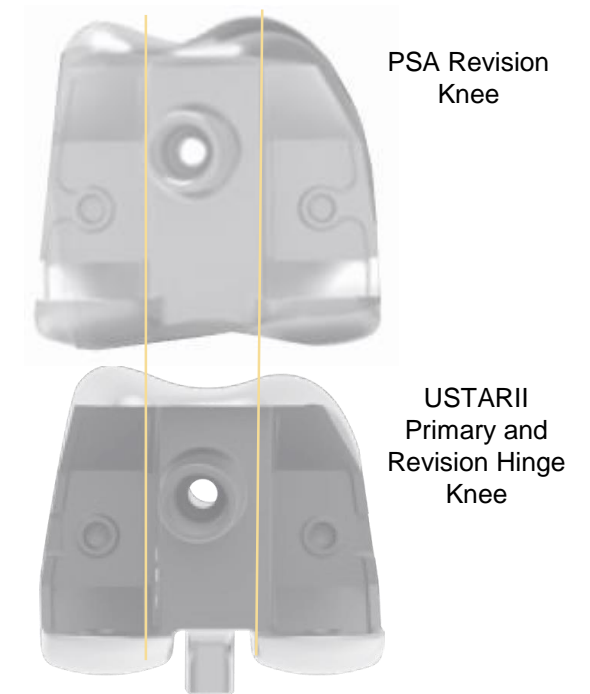
# PSA Knee System. Platform approach for additional *Intra-operative Revision* Options.

**Consistent implant design.** Designed to provide improved flexibility to convert intra-operatively to and from PSA Revision Knee and USTARII Hinge Knee system.

Matching AP, ML and chamfer resections.













Consistent box width.



<sup>1</sup> Note. The PS box widths are constant for the U2 PS Primary PS, PSA Revision and USTARII Hinge Knee systems. The PS box depth and heights vary.

# Revision Knee System. Competitive Comparison – Femoral Component.






	UNITED ORTHOPEDIC PSA™ REVISION KNEE	ZIMMER-BIOMET® PERSONA® REVISION KNEE	ZIMMER-BIOMET® NEXGEN® LEGACY LCKK REVISION KNEE	ZIMMER-BIOMET® VANGUARD® 360 REVISION KNEE	DEPUY® ATTUNE® REVISION KNEE	DEPUY® LCS® COMPLETE REVISION KNEE	STRYKER® TRIATHLON® REVISION KNEE	SMITH & NEPHEW® LEGION REVISION KNEE	MEDACTA® GMK® REVISION KNEE	EXACTECH® TRULIANT™ REVISION KNEE
										
METAL MATERIAL	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium	Oxidized Zirconium, Cobalt-Chromium	Cobalt-Chromium, SensiTiN coating Option	Cobalt-Chromium
# SIZES	6	13	7	10	10	7	8	8	6	5
ROM	155°	155°	120°	NA	NA	N/A	N/A	155°	N/A	N/A
(PS) I/E ROTATION	±3.7°	N/A	+2.0°	±15° <sup>2</sup> , ±0.5° <sup>3</sup>	±4.0° <sup>4</sup> , Zero constraint <sup>5</sup>	N/A	Varies based on insert	Varies based on insert	Varies based on insert	±4° <sup>7</sup> , ±2° <sup>8</sup>
(PS) VARUS/ VALGUS CONSTRAINT	±1.4°	N/A	± 1.25°	Zero constraint <sup>2</sup> , 1.0° <sup>3</sup>	1.25° <sup>4,5</sup>	1.25° <sup>6</sup>	Varies based on insert	Varies based on insert	Varies based on insert	±3° <sup>7</sup> , ±1.5° <sup>8</sup>
FEMORAL OFFSET ADAPTOR OPTIONS	2, 4 and 6 mm	3 and 6 mm	4.5 mm	2.5, 5 and 7.5 mm	2, 4, and 6 mm	N/A	2, 4, 6 and 8 mm	2, 4, and 6 mm	3, 5 mm	2, 4, 6, or 8mm
FEMORAL AUGMENT OPTIONS	Distal in 4, 8, 12, and 16 mm, Posterior in 4 and 8 mm	Distal and Posterior in 5, 10 and 15 mm <sup>1</sup>	Posterior, Distal, Posterior/Distal, Anterior	Posterior, Distal, Posterior/Distal, Anterior	Distal and Posterior	Distal in 5, 10 and 15 mm, Posterior in 5 and 10 mm	Distal in 5, 10 and 15 mm, Posterior in 5 and 10 mm	Distal in 5, 10 and 15 mm, Posterior in 5 and 10 mm	Distal in 4,8 and 12 mm, Posterior in 5 and 10 mm	Distal and Posterior in 5 to 30 mm in 5mm options <sup>9</sup>

N/A = Information Not Available | ROM = Range-Of-Motion | I/E = Internal/External | VVC = Varus Valgus Constraint

<sup>1</sup> Not in smaller sizes | <sup>2</sup>With Standard Vanguard SSK PS Bearing | <sup>3</sup>With SSK PSC Bearing | <sup>4</sup>Fixed Bearing | <sup>5</sup>Rotating Platform | <sup>6</sup>VVC | <sup>7</sup>PSC = Posterior Stabilized Constrained | <sup>8</sup>CC= Condylar Constrained

<sup>9</sup> Augments are stackable

# Revision Knee System. Competitive Comparison – Femoral Component.











	UNITED ORTHOPEDIC PSA™ REVISION KNEE	MICROPORT® EVOLUTION® REVISION KNEE	CORIN® APEX REVISION KNEE	ORTHO DEVELOPMENT® BKS® REVISION KNEE	AESCULAP® IMPLANT SYSTEMS COLUMBUS AS REVISION KNEE
					
METAL MATERIAL	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium	Cobalt-Chromium, AST coating Option <sup>3</sup>
# SIZES	6	6	N/A	7	7
ROM	155°	N/A	N/A	N/A	130°
(PS) I/E ROTATION	±3.7°	±4.0° <sup>1</sup> NA <sup>2</sup>	N/A	N/A	±2.2° <sup>4</sup> ±1.2° <sup>5</sup>
(PS) VARUS/ VALGUS CONSTRAINT	±1.4°	±2.0° <sup>1</sup> NA <sup>2</sup>	N/A	N/A	No Stability <sup>4</sup> ±1.0° / ±0.4° <sup>5</sup>
FEMORAL OFFSET ADAPTOR OPTIONS	2, 4 and 6 mm	4 and 8 mm	N/A	N/A	Up to 4mm Posteriorly or Anteriorly
FEMORAL AUGMENT OPTIONS	Distal in 4, 8, 12, and 16 mm, Posterior in 4 and 8 mm	Distal and Posterior in 4, 8 and 12 mm	Distal and Posterior in 5, 10 and 15 mm	Distal in 4, 8 and 12 mm, Posterior in 4 and 8 mm	Distal and Posterior in 5, 10 mm (And 15 mm in some sizes)

N/A = Information Not Available | ROM = Range-Of-Motion | I/E = Internal/External | VVC = Varus Valgus Constraint

<sup>1</sup> CCK = Constrained Condylar Knee | <sup>2</sup> CS = Condylar Stabilizing Not Applicable (NA) for I/E Rotation and Varus/Valgus Constraint, has unique 'toroid' path allowing ±15.0° of axial rotation | <sup>3</sup> AST Advanced coating option | <sup>4</sup> PS CS = PS Condylar Stabilizing Medium Constrained | <sup>5</sup> PS CK = High Constrained








# Revision Knee System. Competitive Comparison - Tibial Insert Component.

	UNITED ORTHOPEDIC PSA™ REVISION KNEE	ZIMMER-BIOMET® PERSONA® REVISION KNEE	ZIMMER-BIOMET® NEXGEN® LEGACY LCKK REVISION KNEE	ZIMMER-BIOMET® VANGUARD® REVISION KNEE	DEPUY® ATTUNE® REVISION KNEE	DEPUY® LCS® COMPLETE REVISION KNEE	STRYKER® TRIATHLON® REVISION KNEE	SMITH & NEPHEW® LEGION REVISION KNEE	MEDACTA® GMK® REVISION KNEE	EXACTECH® TRULIANT™ REVISION KNEE
										
INSERT OPTIONS	Standard Constrained PS Insert	Persona Revision CCK, Persona CPS or Persona PS Bearing	CCK, Legacy PS options	Vanguard 360 SSK PS Bearing or SSK PSC	FB and RP <sup>2,3</sup>	RP PS and VVC	PS, PSR, TS	PS High-flex, PS Constrained, PS	Ultra-Congruent Fixed, PS Fixed, Semi-Constrained Fixed, Mobile, Ultra-Congruent Mobile	PS, PCS. CC
INSERT THICKNESSES (Including Baseplate)	9,11,13,15,18, 21, 25, 30 mm	10 thru 26 mm options	NA	10 up to 24 mm in 2 mm increments	Varies depending on insert type	Varies depending on insert type	9, 11, 13, 16, 19, 22, 25, 28, 31 mm	Varies depending on insert type	Varies depending on insert type	Varies depending on insert type
MATERIAL	UHMWPE, Highly Cross-linked Poly(XPE), Vitamin- E Poly (EXPE)	Vitamin-E and Conventional (HXLPE)	NA	Vivacit-E Vitamin E and HXLPE Technology, Conventional (HXLPE) <sup>1</sup>	Vivacit-E Vitamin E and HXLPE Technology, Conventional (HXLPE) <sup>1</sup>	HXLPE Technology, Conventional (HXLPE) <sup>1</sup>	Conventional (HXLPE) and Advanced (X3)	UHMWPE, XLPE	UHMWPE	NCM (UHMWPE)

N/A = Information Not Available | CCK = Constrained Condylar Knee | CPS = Constrained Posterior Stabilized | HXLPE = Highly Cross-Linked Polyethylene | PSC = Posterior Stabilized Constrained | FB = Fixed Bearing | RP = Rotating Platform | VVC = Varus Valgus Constraint MB = Mobile Bearing | PSR = Posterior Stabilized Reinforced | TS = Total Stabilizer | PSC = Posterior Stabilized Constrained Stabilized | PCS = Posterior Condylar Stabilized | CC= Condylar Constrained

<sup>1</sup> Estimate only | <sup>2</sup>FB = Fixed Bearing | <sup>3</sup>MB = Mobile Bearing











# Revision Knee System. Competitive Comparison - Tibial Insert Component.

	UNITED ORTHOPEDIC PSA™ REVISION KNEE	MICROPORT® EVOLUTION® REVISION KNEE	CORIN® APEX REVISION KNEE	ORTHO DEVELOPMENT® BKS® REVISION KNEE	AESCLAP® IMPLANT SYSTEMS COLUMBUS AS REVISION KNEE
					
INSERT OPTIONS	Standard Constrained PS Insert	CCK and CS	N/A	PS and CK	PS MC and PS HC
INSERT THICKNESSES (Including Baseplate)	9,11,13,15,18, 21, 25, 30 mm	10, 12, 14, 17, 20, 22, and 24mm	N/A	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28 and 30 <sup>1</sup>	10 to 32 mm
MATERIAL	UHMWPE, Highly Cross-linked Poly(XPE), Vitamin- E Poly (EXPE)	UHMWPE	N/A	UHMWPE, Vitamin- E Poly (E- Vitalize®)	BETA Sterilized Polyethylene

N/A = Information Not Available | CCK = Constrained Condylar Knee | PS CS = PS Condylar Stabilizing | PS CK = Constrained

<sup>1</sup> CK Insert Options | MC = Medium Constrained | HC High Constrained






# Revision Knee System. Competitive Comparison– Tibial Baseplate Component.

	UNITED ORTHOPEDIC PSA™ REVISION KNEE	ZIMMER-BIOMET® PERSONA® REVISION KNEE	ZIMMER-BIOMET® NEXGEN® LEGACY LCCK REVISION KNEE	ZIMMER-BIOMET® VANGUARD® REVISION KNEE	DEPUY® ATTUNE® REVISION KNEE	DEPUY® LCS® COMPLETE REVISION KNEE <sup>3</sup>	STRYKER® TRIATHLON® REVISION KNEE	SMITH & NEPHEW® LEGION REVISION KNEE	MEDACTA® GMK® REVISION KNEE	EXACTECH® TRULIANT™ REVISION KNEE
										
TIBIAL SIZES	8	9	9 <sup>1</sup>	9	10	9 <sup>2</sup>	8	8	6	5
INTERCHANGEABLE (FEMUR & TIBIA)	<b>Fully interchangeable with Adult sizes</b>	Limited based on Tibial Insert Type	Limited based on Tibial Insert Type	Complete tibial-femoral interchangeability	Limited based on Tibial Insert Type	Limited based on Tibial Insert Type	1 Size up, 1 Size down	Limited based on Tibial Insert Type	Limited based on Tibial Insert Type	Limited based on Tibial Insert Type
TIBIAL OFFSET ADAPTOR OPTIONS	<b>2, 4 and 6 mm</b>	3 and 6 mm	Up to 4.5mm	2.5, 5 and 7.5 mm	Available	N/A	2, 4, 6 and 8 mm	2, 4, and 6 mm	3, 5 mm	2, 4, 6, or 8mm
TIBIAL AUGMENT OPTIONS	<b>5, 10, and 15 mm</b>	5, 10 and 15 mm	5, 10, 15 and 20mm and 30mm in Trabecular Metal	Various	Available	5,10 and 15 mm <sup>2</sup>	5 and 10 mm	5, 10, and 15mm in various angle options	5 and 10 mm	5, 10 and 15 mm <sup>4</sup>

N/A = Information Not Available

<sup>1</sup> Estimate only | <sup>2</sup>M.B.T Revision Tray Option | <sup>3</sup>LCS Complete Revision Knee shown with optional Sleeves implant component | <sup>4</sup> Augments are stackable

# Revision Knee System. Competitive Comparison– Tibial Baseplate Component.

	UNITED ORTHOPEDIC PSA™ REVISION KNEE	MICROPORT® EVOLUTION® REVISION KNEE	CORIN® APEX REVISION KNEE	ORTHO DEVELOPMENT® BKS® REVISION KNEE	AESCULAP® IMPLANT SYSTEMS COLUMBUS AS REVISION KNEE
					
TIBIAL SIZES	8	Size 3 to 8+ <sup>2</sup>	N/A	6	7
INTERCHANGEABLE (FEMUR& TIBIA )	Fully interchangeable with Adult sizes	N/A	N/A	1 Size up, 1 Size down	N/A
TIBIAL OFFSET ADAPTOR OPTIONS	2, 4 and 6 mm	N/A	N/A	N/A	Up to 6 mm Medially or Laterally
TIBIAL AUGMENT OPTIONS	5, 10, and 15 mm	5, 10, and 15mm	N/A	5, 10, and 15mm in various angle options	5, 10 and 15 mm

N/A = Information Not Available

<sup>1</sup> Estimate only | <sup>2</sup> Includes Modular Keel with Medium and Large sizes

THANK YOU