Product Information

PLUS ORTHOPEDICS

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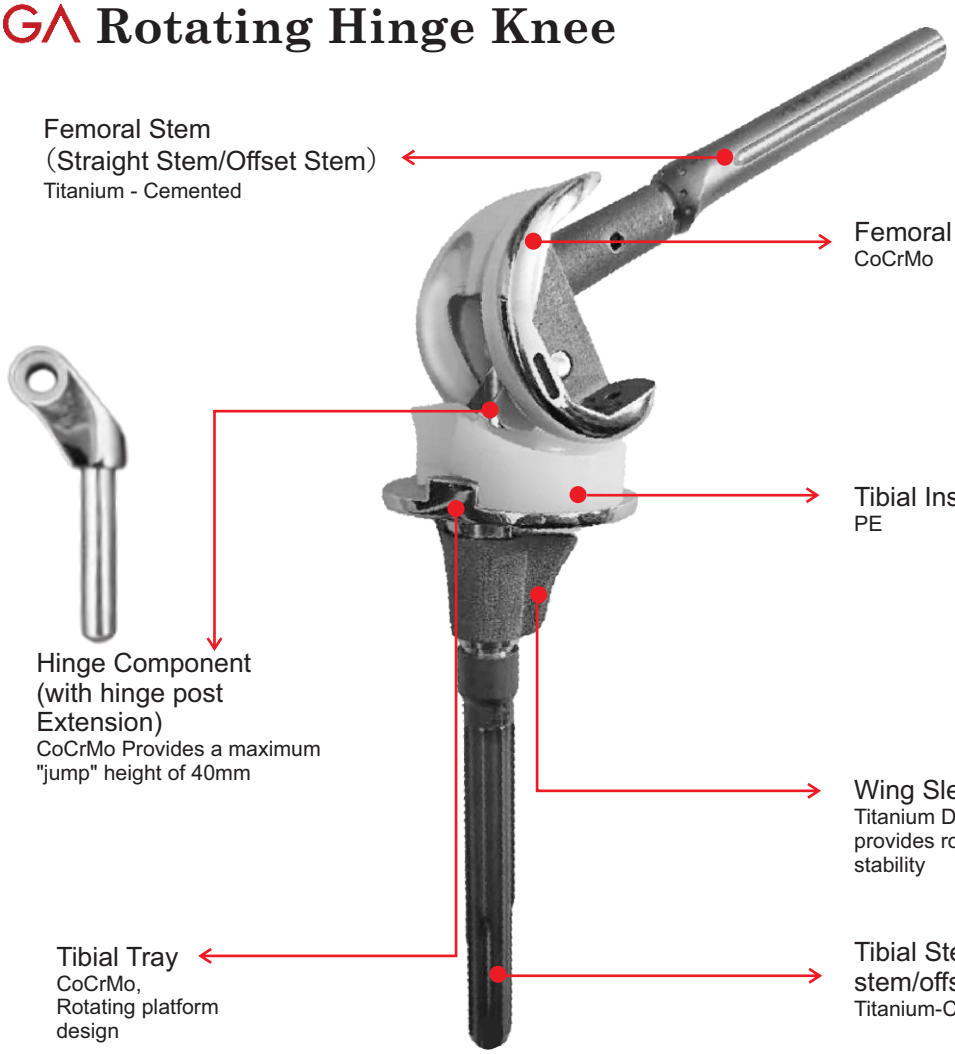
OMEGA

ROTATING HINGE KNEE SYSTEM

OMEGA Rotating Hinge Knee System addresses the art of revision with the science of precision. The Rotating Hinge Total Knee implants are fully constraint system that offers maximum stability to the knee joint and is designed for patients with severe soft tissue instability or severe bone loss and ligamental loss around the knee joint.

OMEGA Rotating Hinge Knee



Femoral Component

- Femoral component is of cobalt chromium-molybdenum alloy and asymmetric in design.
- The femoral component and articular surface of Omega rotating constrained System is designed to maintain optimum area of contact throughout the range of motion.
- The anterior condyle is thinner and is effective in avoiding parapatellar pain.
- Deeper trochlear groove allows for more natural patellar tracking from extension to flexion and eliminates patella clunk syndrome.
- The smallest box of femoral component reduces bone loss significantly.

- Femur is designed to accommodate stem extension and femoral augments.
- Central non weight bearing hinge with different sizes of hinge post extension corresponding to the different thickness of Tibial Insert ensures optimal engagement with the tibia and resist subluxation which offers a minimum “jump height” of 40mm regardless of thickness of articular surface.

Femoral Component Size / Dimemsion

Size	2#	3#	4#	5#	6#	7#
AP (in mm)	53.5	56	59	62	64.5	67.5
ML (in mm)	60.5	63	65	67.5	70.5	75

Tibial Component

- Tibial Component is of cobalt chromium-molybdenum alloy and symmetric in design.
- Rotating platform design.
- Highly polished Tibial base plate with secured locking mechanism which allows for more than 20° internal & external rotation.
- Wing sleeve (height 28mm) is secured to the tibial component by taper lock mechanism and provides rotational stability.
- Tibia accommodates both stem extension and wedges.

Tibial Tray Size / Dimemsion

Size	2#	3#	4#	5#	6#	7#
AP (in mm)	43	45	47	49	51	53
ML (in mm)	65	68	70	72	75	79
Thickness	4mm					

Tibial Insert

- Tibial Insert is of UHMWPE
- Inserts are in full congruency with femur giving high contact area in flexion and extension.
- The anterior deep notch design reduces the adverse effect on the patellar ligament during high flexion.

Tibial Insert Size / Dimemsion

Size	2#	3#	4#	5#	6#	7#
AP (in mm)	39	40	42	44	46	48
ML (in mm)	60	62	65	68.5	71	75

Stems

- Femur and Tibia straight / offset stem is of Titanium Alloy.
- Femur straight / offset stem is secured by taper lock mechanism and by pair of M5 screw for additional stability.
- Tibia straight / offset stem is secured to the tibia by a screw.
- Offset stem design allows the component to be positioned 3mm away from the center of the canal in situation where canal is not centered relative to the distal femur or proximal tibial surface.
- Femur straight / offset stems are available in Ø 10mm,12mm,14mm & 16mm in 60mm & 100 Length
- Tibia straight/offset stem are available in Ø 10mm, 12mm, 14mm & 16mm, in 70mm & 110mm Length.

Femoral
Straight Stem

Femoral
Offset Stem

Tibial
Straight Stem

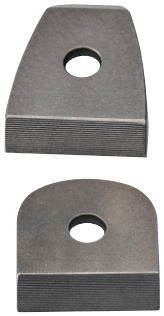
Tibial
Offset Stem

Tibial Wedges

- Tibial wedges is of Titanium Alloy.
- Wedges are secured to the Tibial component by screw.
- Tibial Half Wedges are available in 6 sizes in thickness of 5mm and 10mm.

Femoral Augments

- Femoral Augments is of Titanium Alloy.
- Distal femoral augments are available in 6 sizes, in thickness of 5mm and 10mm.
- Posterior femoral augments are available in 6 sizes, in thickness of 5mm and 10mm.
- Both distal and posterial augments is secured to the femur by screw.



Note: Femoral and Tibial component can used in conjunction with wall brand of femoral and tibial cones and shapes respectively.

Stemcup
Medical Products AG
Aargauerstrasse 180
CH-8048 Zürich
Switzerland

PLUS ORTHOPAEDICS
Plus Orthopaedics India (P) Ltd
INDIA
: info@plusorthoindia.com