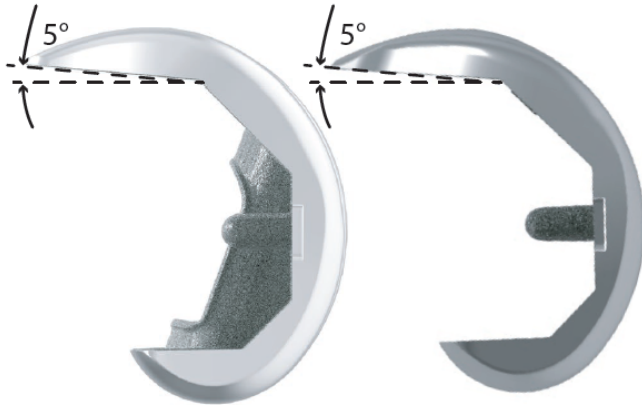




# Genius Knee System

# Genius Knee System features



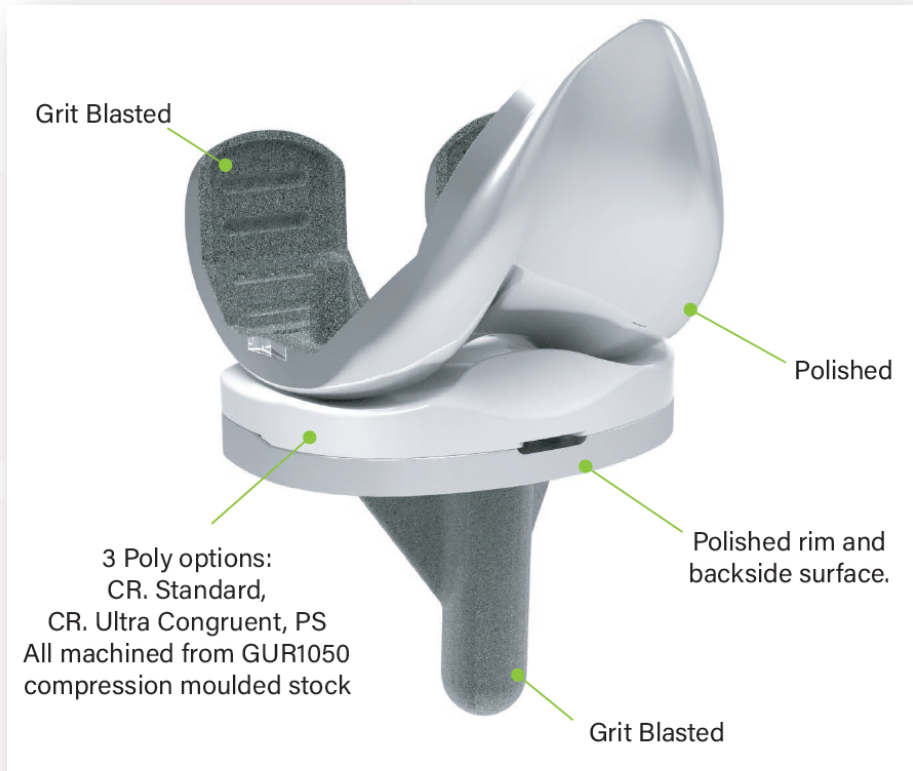
Femoral component made from CrCo with two options;

CR - Cruciate Retaining

PS - Posterior Stabilising

J-Curve, based off

# Genius Knee System features



# Low contact stress



The Genius PS Knee has a cam/ post design which maintains low contact stress through all flexion angles.

The unique cam design has curvature that reduces stress at the flexion when the femur is externally rotated

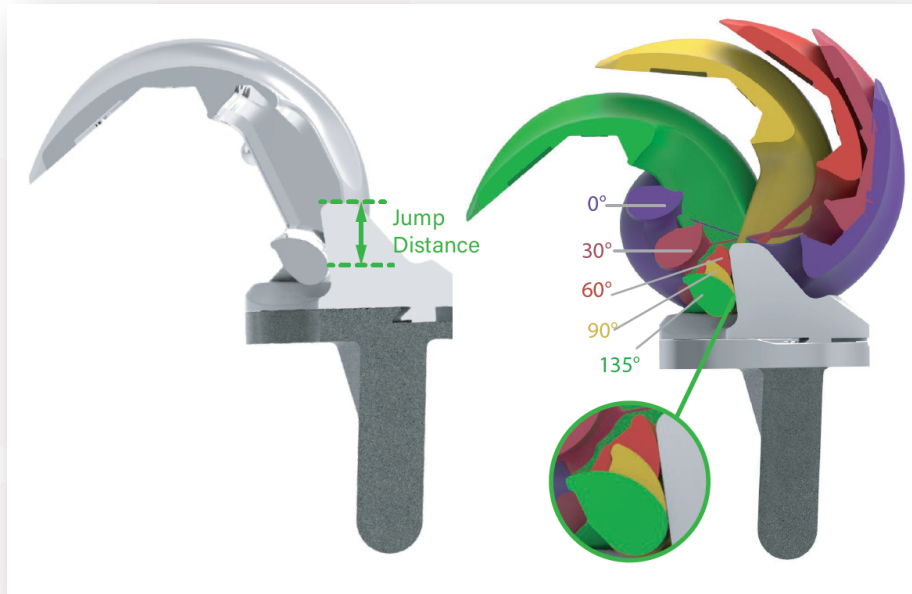


# Low contact stress



The Genius Knee PS Femur has an optimal bone conserving box design which minimises bone loss during femoral preparation

# Cam post interaction



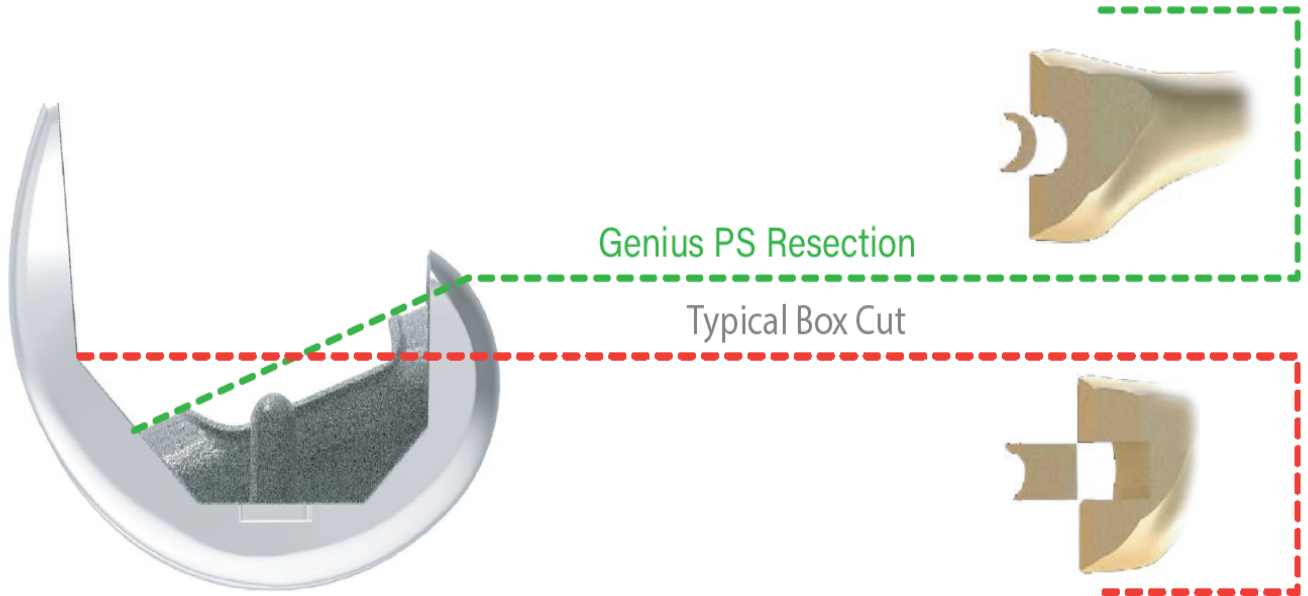
The cam post interaction has been designed to maximise jump distance through a range of flexion angles

# Bone preserving

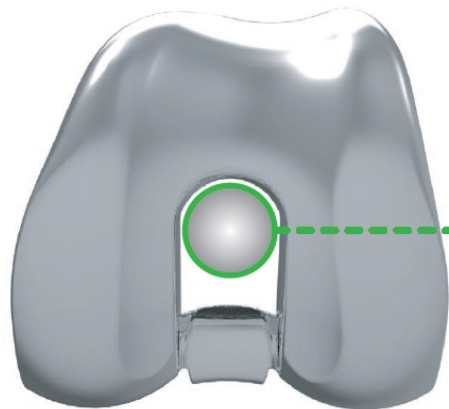


Using the natural shape of the intercondylar fossa the Genius PS Knee is able to preserve as much bone stock as possible in one simple quick step

# Bone preserving



# Retrograde IM Nailing



IM Nail

Size	Min	Travel	ØIM Nail
0	10.3	7.5	12.5
1	8.5	10.8	15
2	9.1	11.5	15
3	14.1	10.7	16
4	17.2	11.5	16
5	15.2	12.5	17
6	19.0	15.5	17

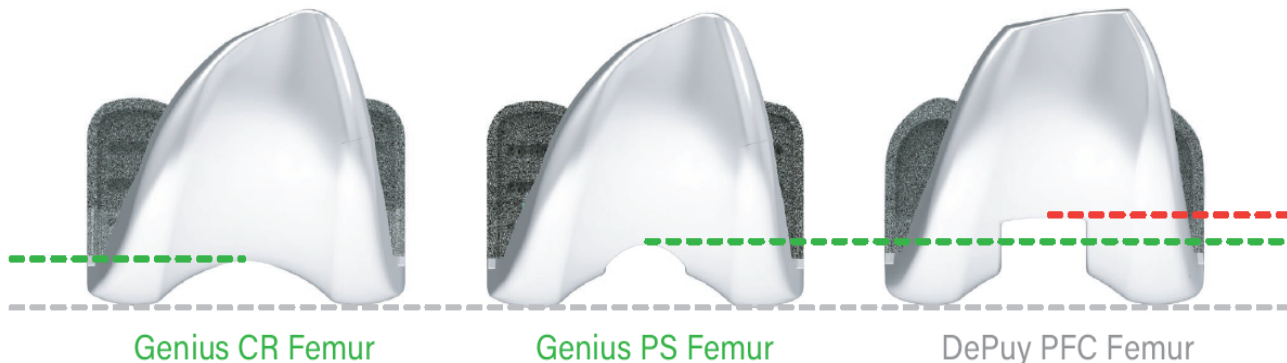
The box design allows use of large diameter intramedullary femoral nails, for use in fixation of distal femoral fractures

# Genius CR Knee System



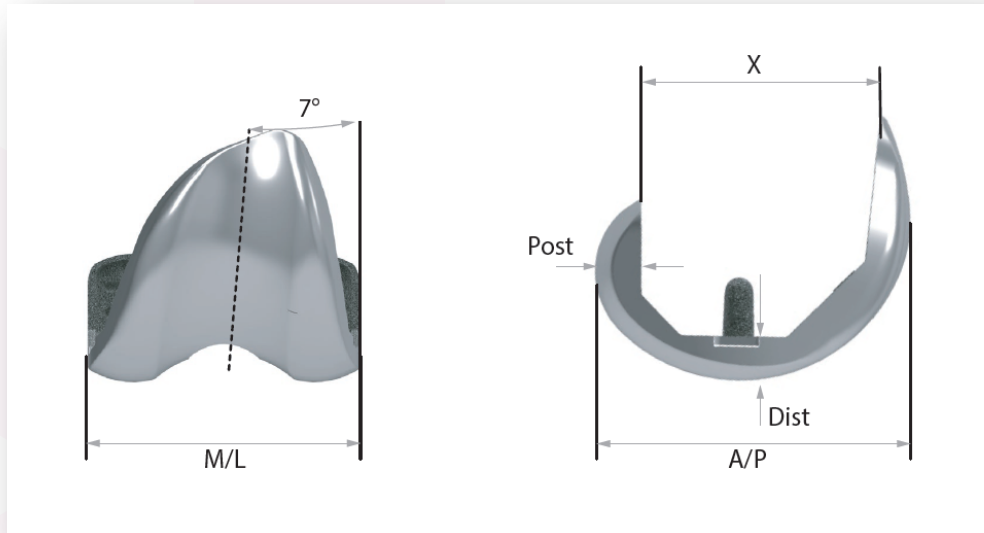
The Genius CR Knee system has an identical articulating geometry to the PS Femur

# Genius Patella component



The Genius PS offers 80° of uninterrupted patella tracking, providing patella contact throughout normal gate. This will reduce premature patella wear and patella clunk

# Genius Femur component



Femoral components are made from CrCo with two options, CR (Cruciate Retaining) and PS (Posterior Stabilising). Both have a polished articulating surface and grit blasted inner face



# Genius Femur component

Size	A/P	M/L	Post	Dist	X
0	52.9	57	9.5	9.0	39.2
1	56.9	60	9.5	9.0	42.7
2	59.9	63	9.5	9.0	45.0
3	63.7	66	9.5	9.0	48.2
4	66.8	71	9.5	9.0	52.4
5	70.8	73	9.5	9.5	55.7
6	76.2	77	9.5	10.0	61.0

# Genius Poly component

There are three poly options available;

**PS** - Posterior Stabilising

**CR** - Standard (a traditional poly insert)

**CR** - Ultra Congruent (has a raised front edge to limit joint dislocation in high flexion)

All sizes available with thickness of  
6.5, 8.5, 10.5, 12.5 and 14.5mm

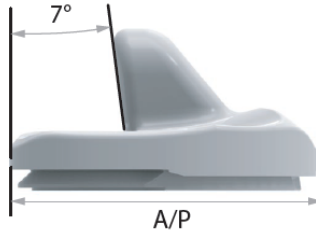
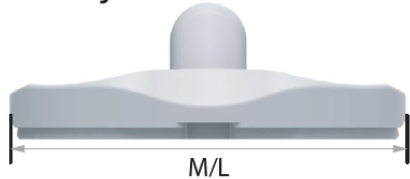
No hard edges present on the top surfaces.

All edges rounded making surfaces tissue friendly.

All surfaces high speed machined and computer controlled

# Genius Poly component

PS Poly



CR. Poly - Standard



CR. Poly - Ultra Congruent



Size	A/P	M/L
0	41	61
1	43	64
2	45	67
3	47	71
4	51	76
5	55	83
6	55	83

Zero slope built into Poly inserts

# Genius Tibial component



Size	A/P	M/L
0	41	61
1	43	64
2	45	67
3	47	71
4	51	76
5	55	83
6	59	89

The Genius Tibial component has a 3° winged post, including the under-surface of the tray. This is grit blasted for better fixation. The rim and top surface are highly polished and wet blasted for a proprietary silk finish, resulting in a better fit and reducing wear

# Genius Tibial component



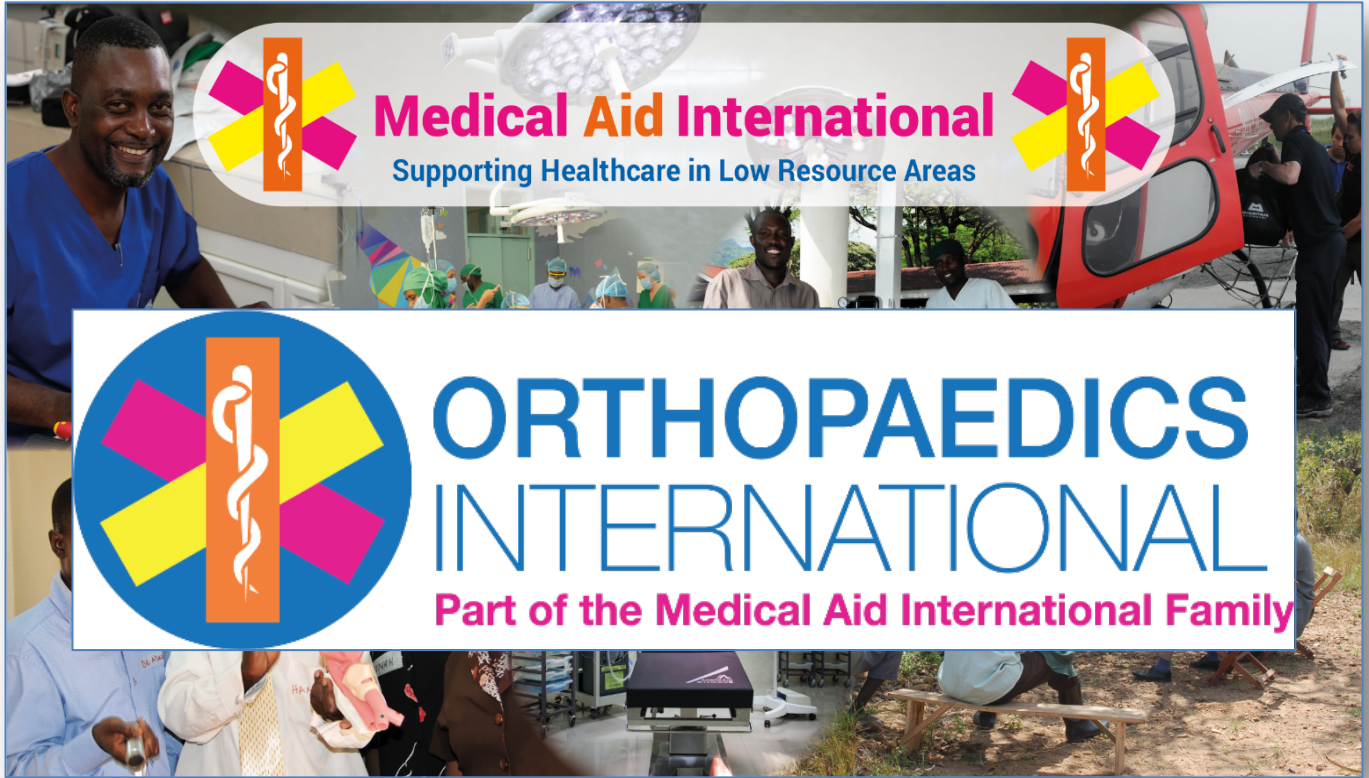
Common keel broaches  
for sizes



**0-2**


**3-4**

**5-6**

# Thank you



 **Medical Aid International**  
Supporting Healthcare in Low Resource Areas 

 **ORTHOPAEDICS  
INTERNATIONAL**  
Part of the Medical Aid International Family