



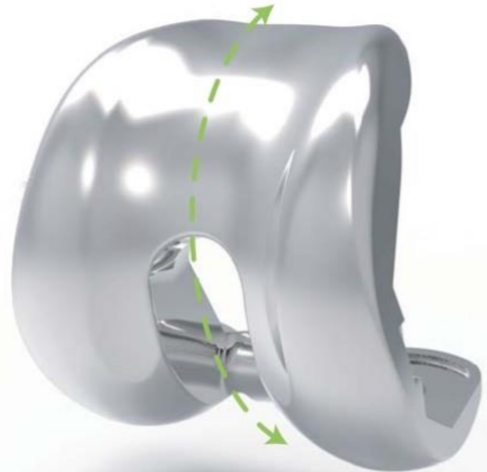
World Knee

World Knee design



Single radius
patella groove (Patent pending)

Single radius trochlear groove on femur prevents camming the patella. Thus reduces stresses in the patella.



World Knee design



J-Curve (Traditional)

Force on the patella as it tracks due to cam motion, from fluctuating distances



Constant radius

Constant force on the patella during tacking as constant distance is maintained

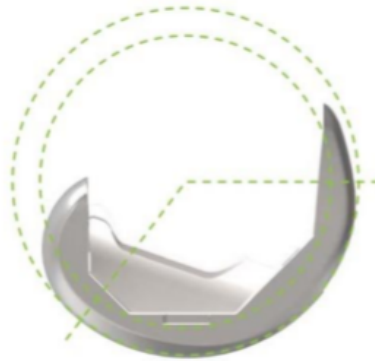


World Knee design

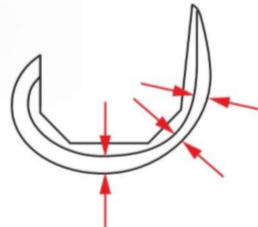


Constant depth trochlear groove

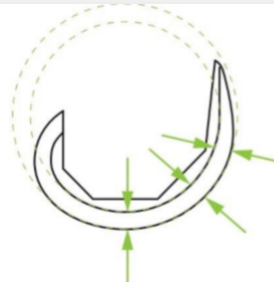
Consistent trochlear groove depth provides stability through full range of motion



World Knee design



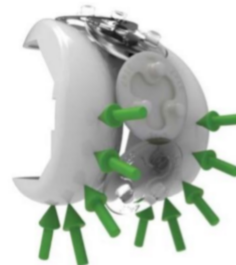
Non-Consistent



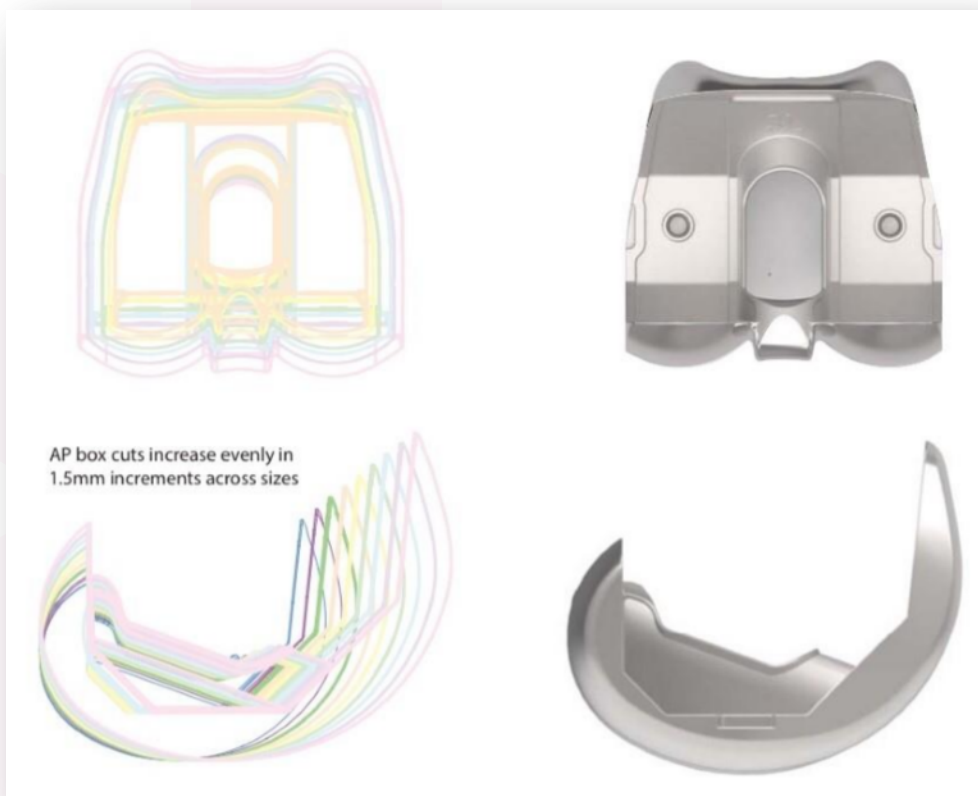
Consistent

Single radius condyles

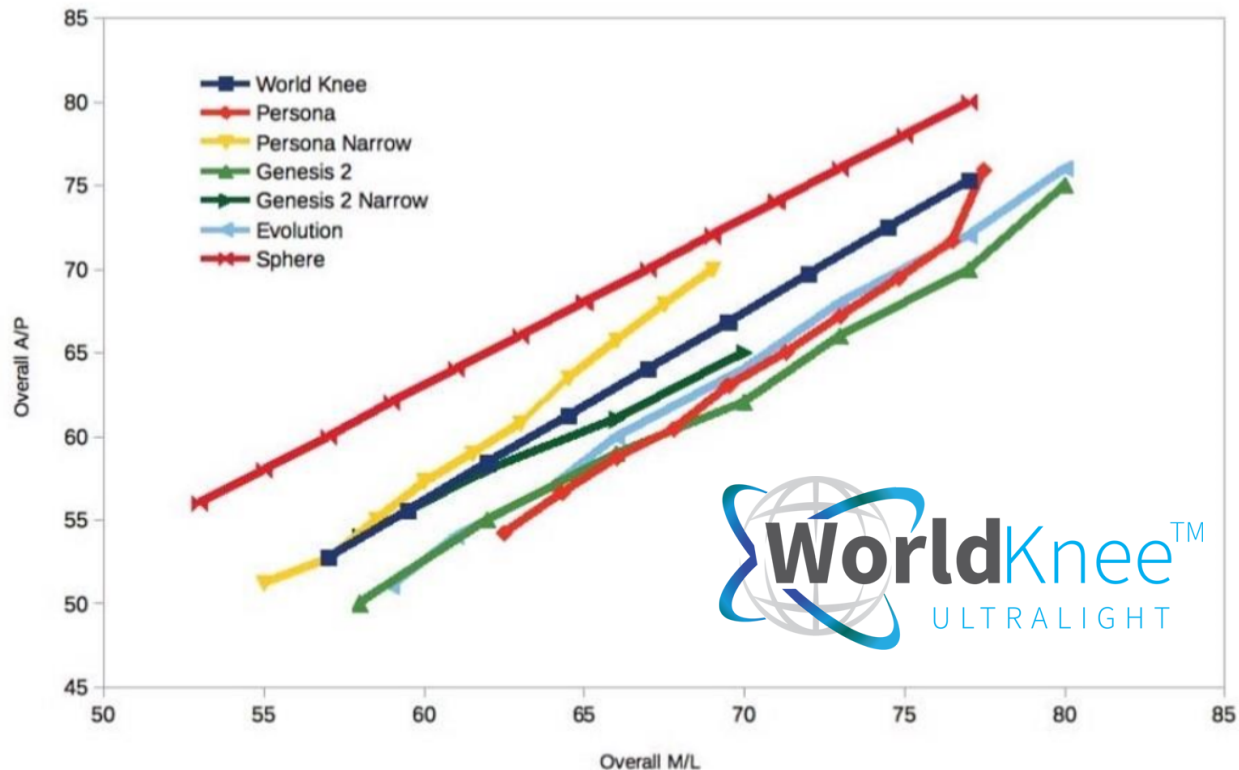
Consistent condyle radius removes cam effect, giving smooth stable transitioning through full range of motion.



Sizing progression - femur



Dimension comparison

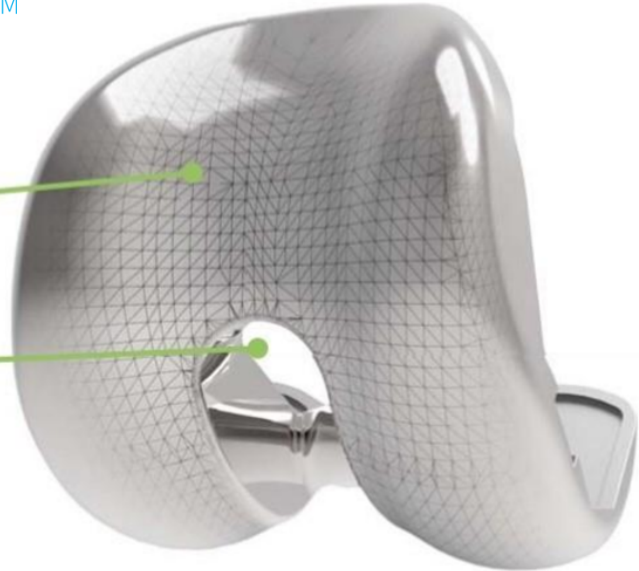


Sizing progression

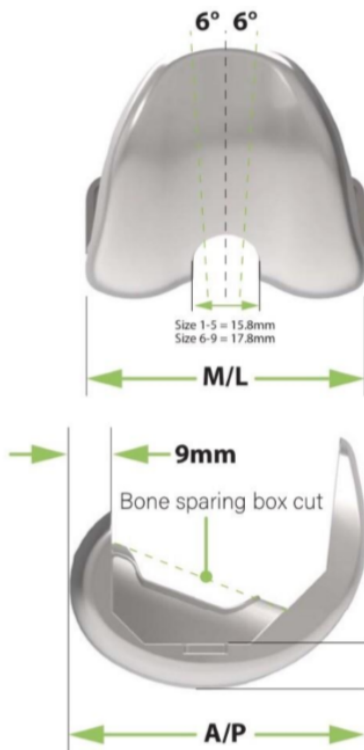


Patella friendly
tracking

Cylindrical box cut
for simple preparation



Sizing progression



	M/L	A/P
Size 1	57.0	52.8
Size 2	59.5	55.6
Size 3	62.0	58.4
Size 4	64.5	61.2
Size 5	67.0	64.0
Size 6	69.5	66.9
Size 7	72.0	69.7
Size 8	74.5	72.5
Size 9	77.0	75.3

Femoral component finishes



Cemented

Grit blast finish to interior surfaces for enhanced polymethylmethacrylate (PMMA – ISO 5833) fixation

Uncemented

Cobalt chromium molybdenum beads (CoCrMo-ASTM 1377) and hydroxyapatite (HA-ISO 13779)

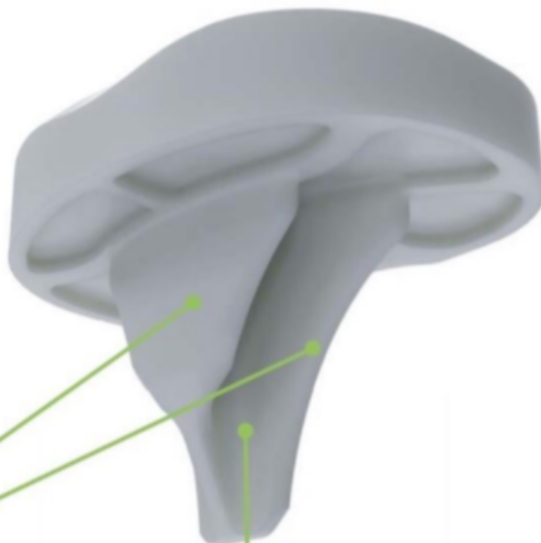
Cement friendly tibia



Intrinsically stable geometry



Twin-web design
improves torsional
resistance



I-beam post design
optimises post stiffness
while maximising bone
conservation



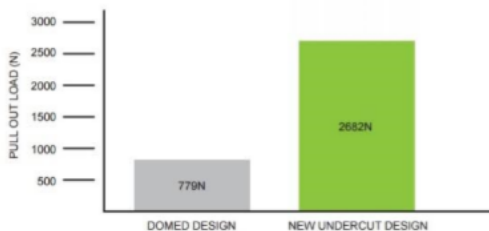
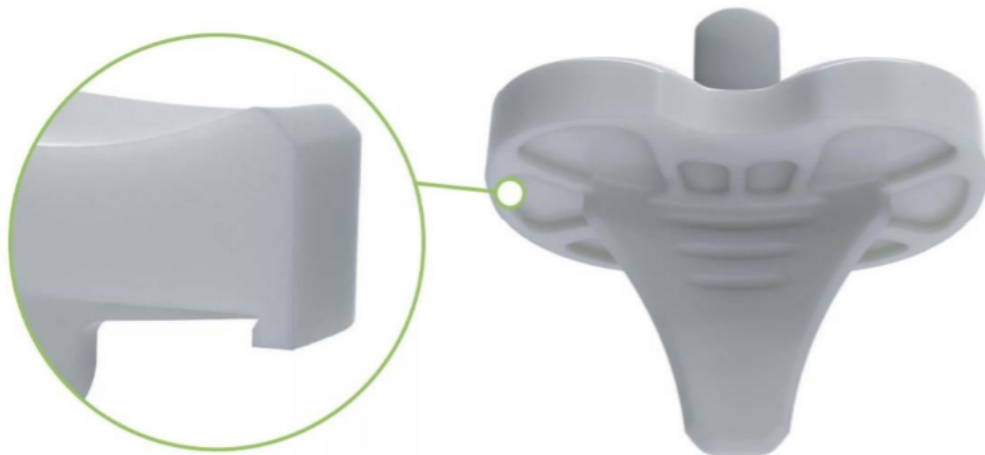
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Supporting Healthcare in Low Resource Environments

All Poly Tibia



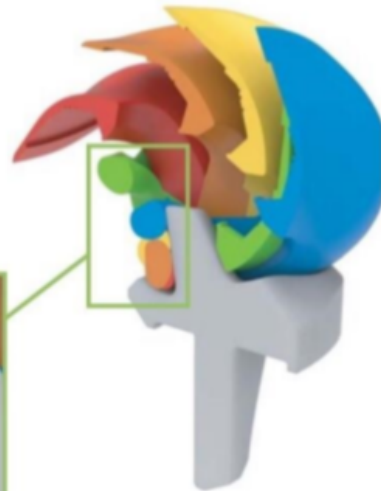
Machined undercut for positive cement locking.
340% more pull out force required.

All Poly Tibia

Common articular surface geometry is compatible with all femur configurations



0°
30°
60°
90°
135°



All Poly Tibia - sizing

	M/L	A/P
Size 1	61.0	41.0
Size 2	64.4	43.3
Size 3	67.8	45.5
Size 4	71.1	47.8
Size 5	74.5	50.0
Size 6	77.9	52.3
Size 7	81.3	54.5
Size 8	84.6	56.8
Size 9	88.0	59.0

Patella friendly groove

Constant size keel

All poly tibia means that it can be milled to suit the extra small anatomy!

38.5mm

M/L

All Poly Tibia - sizing



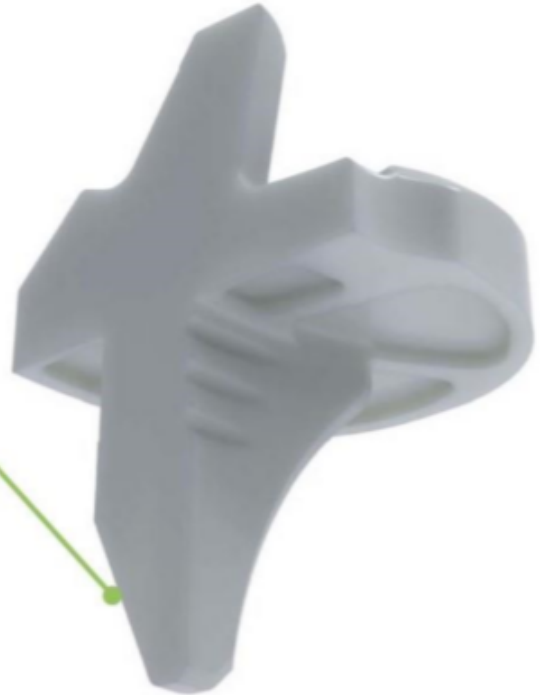
	M/L	A/P
Size 1	61.0	41.0
Size 2	64.4	43.3
Size 3	67.8	45.5
Size 4	71.1	47.8
Size 5	74.5	50.0
Size 6	77.9	52.3
Size 7	81.3	54.5
Size 8	84.6	56.8
Size 9	88.0	59.0



All Poly Tibia



Anterior keel has a large chamfer, to avoid cortical bone.



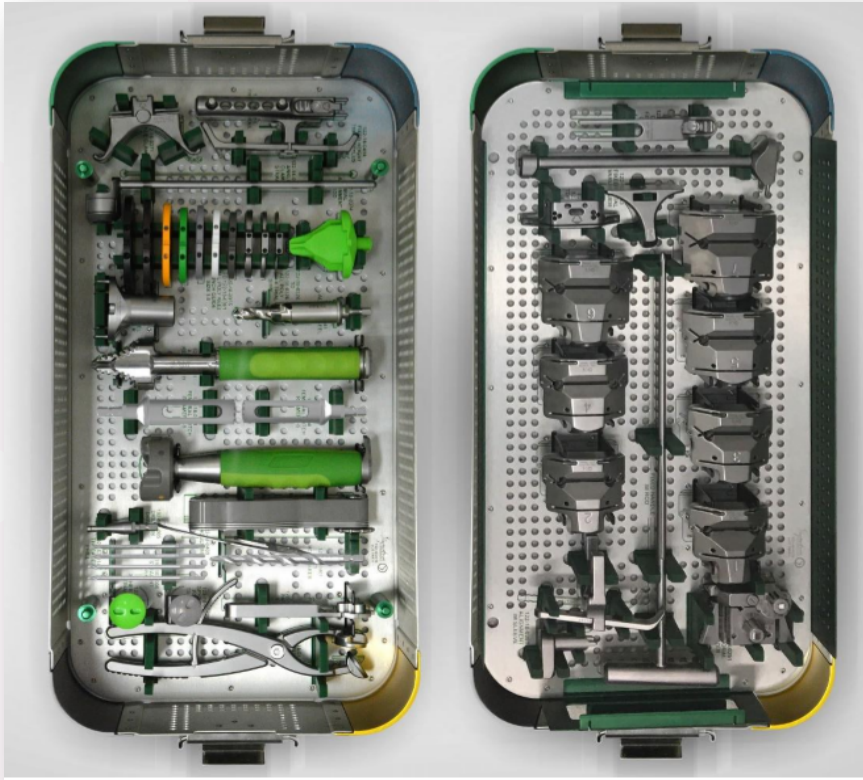
Patella component

The patella component is manufactured from Ultra-High Molecular Weight Polyethylene (UHMWPE – ASTM F-468) has a dome shape with the reverse curvature of the femoral condyles.

The patella is designed for fixation with polymethylmethacrylate (PMMA – ISO 5833) cement.

The patella component is available in several shapes and sizes to suit different anatomies

One set of instruments

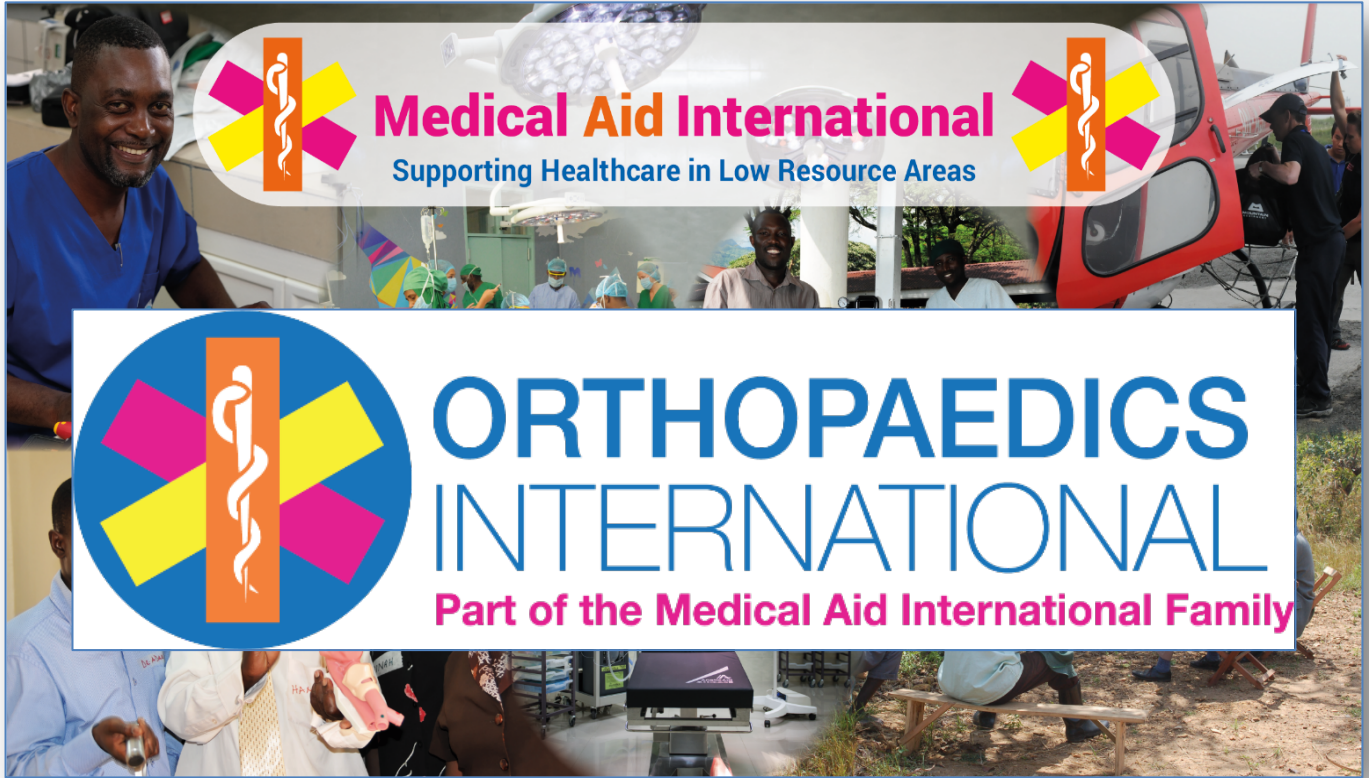



World Knee




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ULTRALIGHT

Thank you



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Supporting Healthcare in Low Resource Areas 

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