MedAid Academy

ORTHOPAEDICS INTERNATIONAL
Part of the Medical Aid International Family

WorldKnee™
ULTRALIGHT

World Knee

Medical Aid International
Supporting Healthcare in Low Resource Environments

World Knee design

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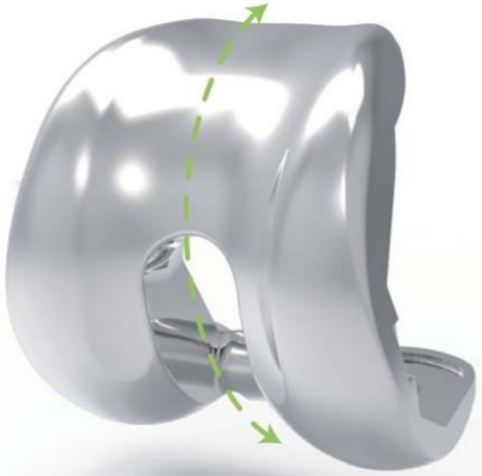
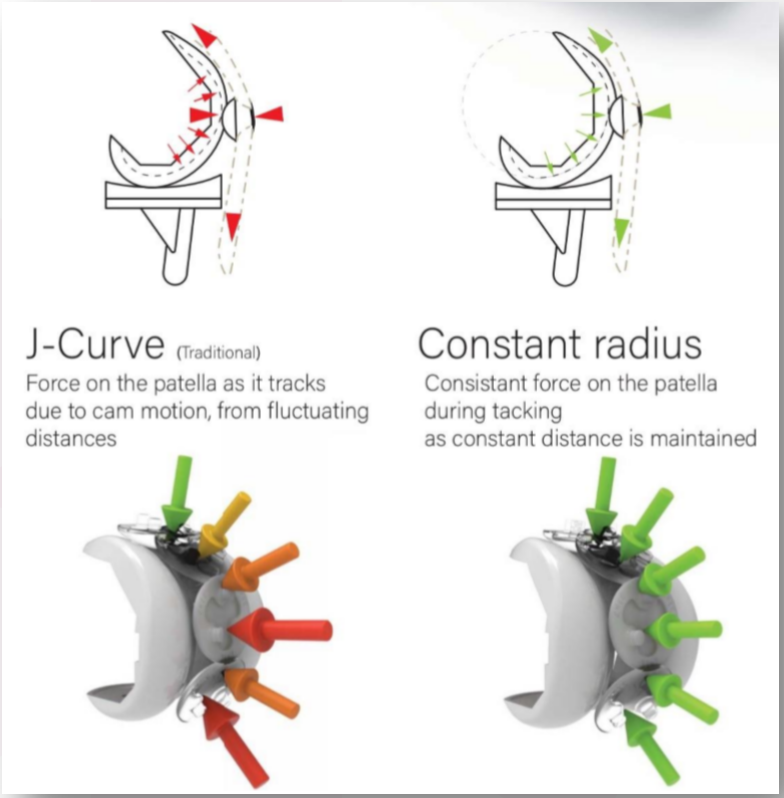
Single radius patella groove (Patent pending)

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



World Knee design



World Knee design

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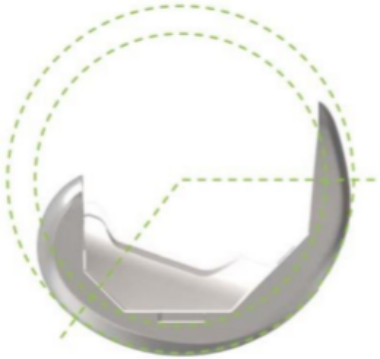
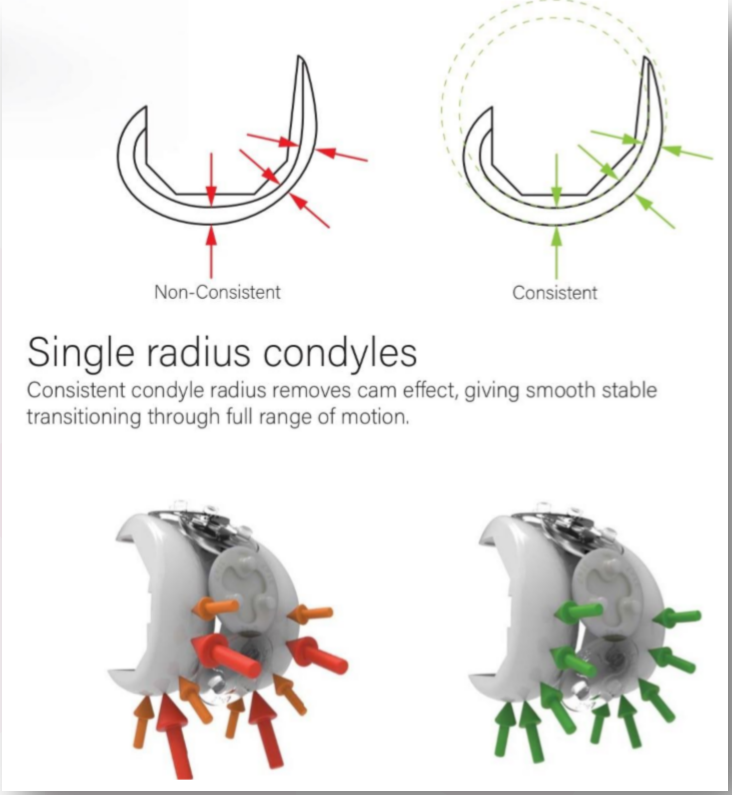
Constant depth trochlear groove

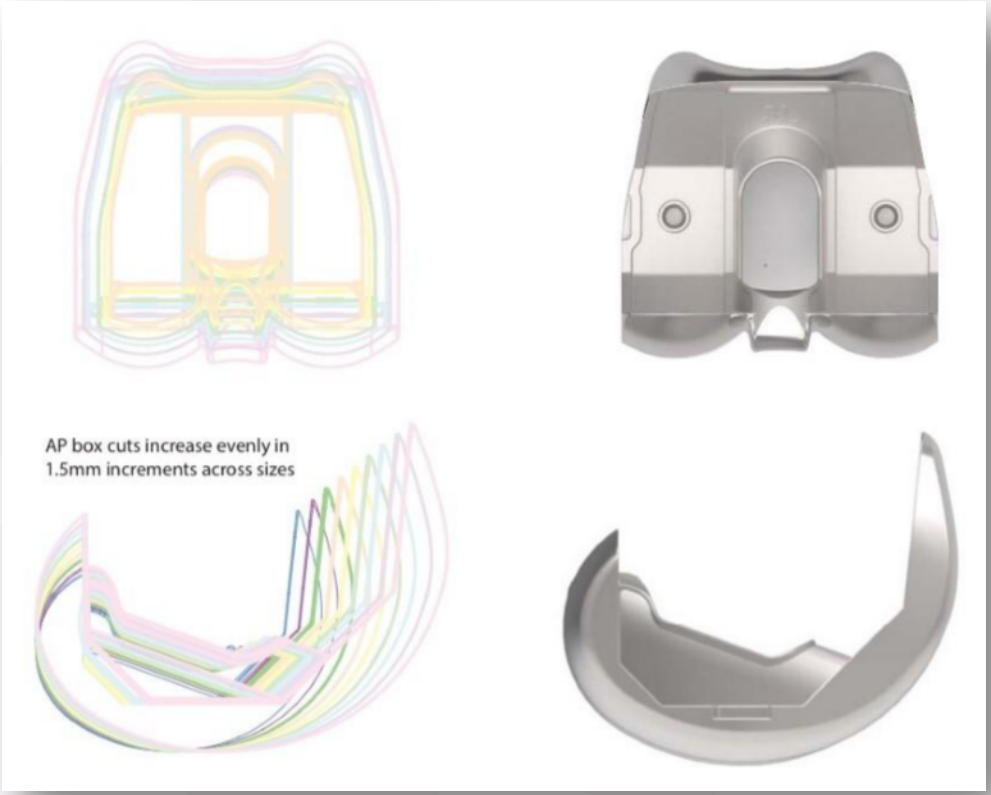
Consistent trochlear groove depth provides stability through full range of motion



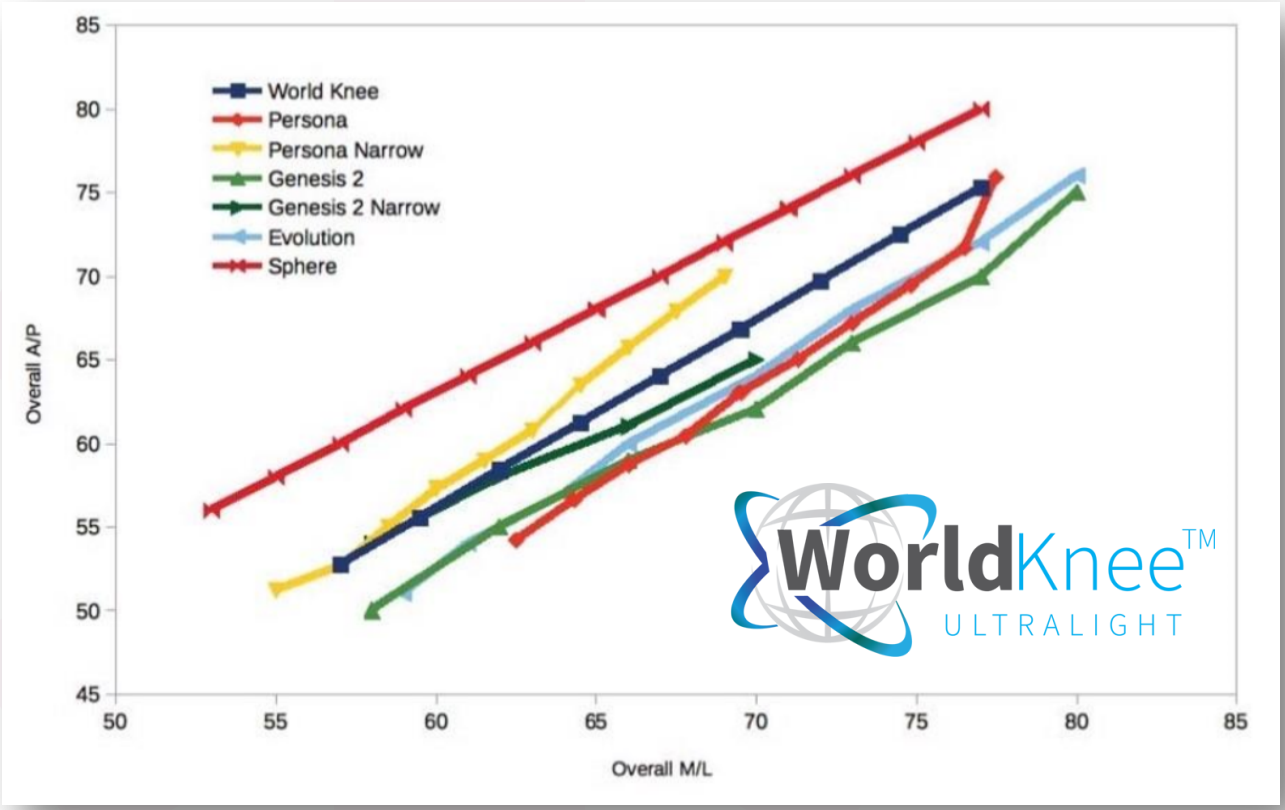
World Knee design



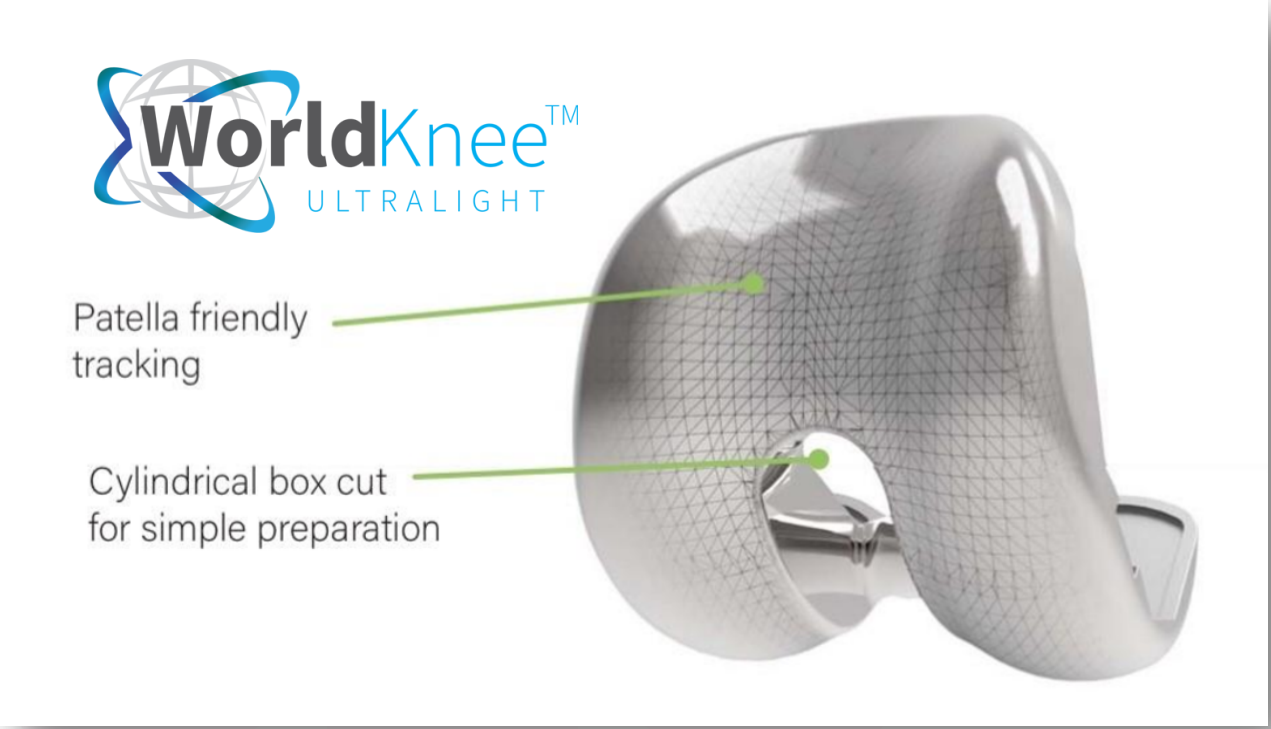
Sizing progression - femur



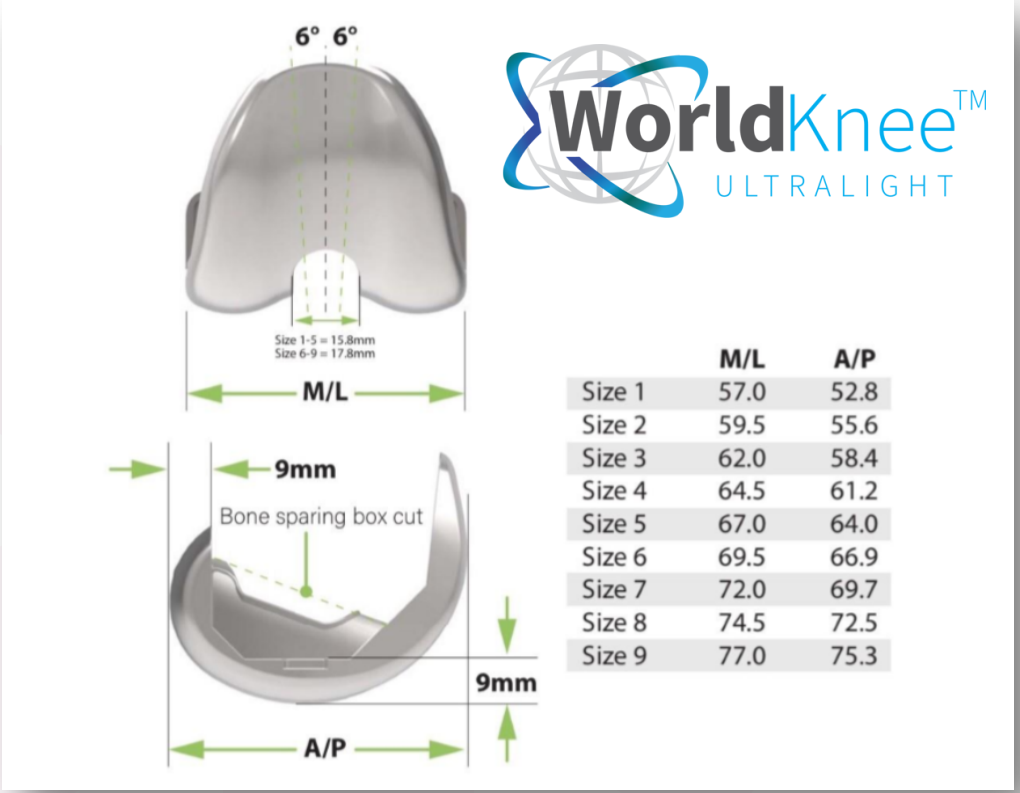
Dimension comparison



Sizing progression



Sizing progression



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	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

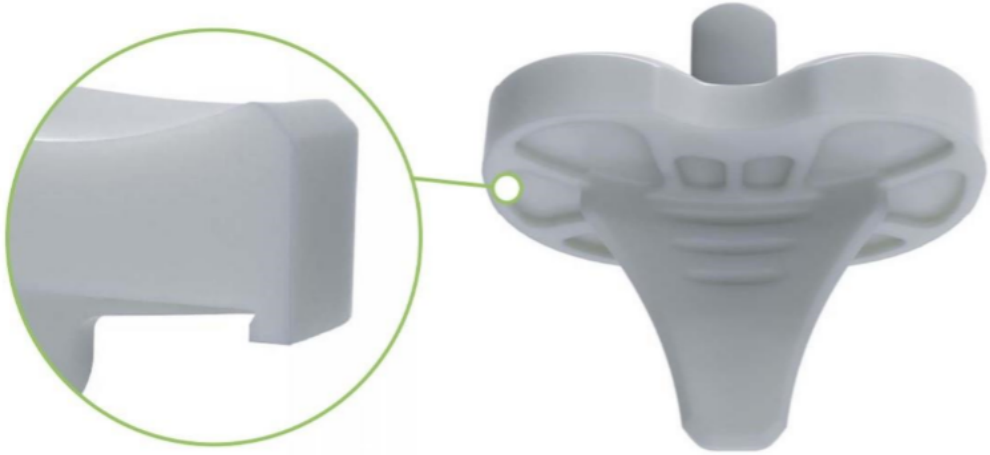
Grit blast finish to interior surfaces for enhanced polymethylmethacrylate (PMMA – ISO 5833) fixation

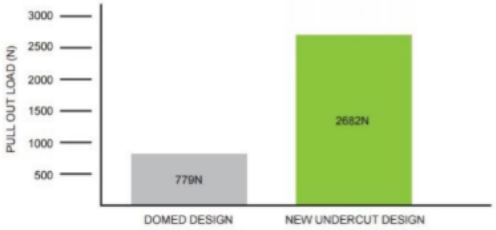
Uncemented

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

Cement friendly tibia

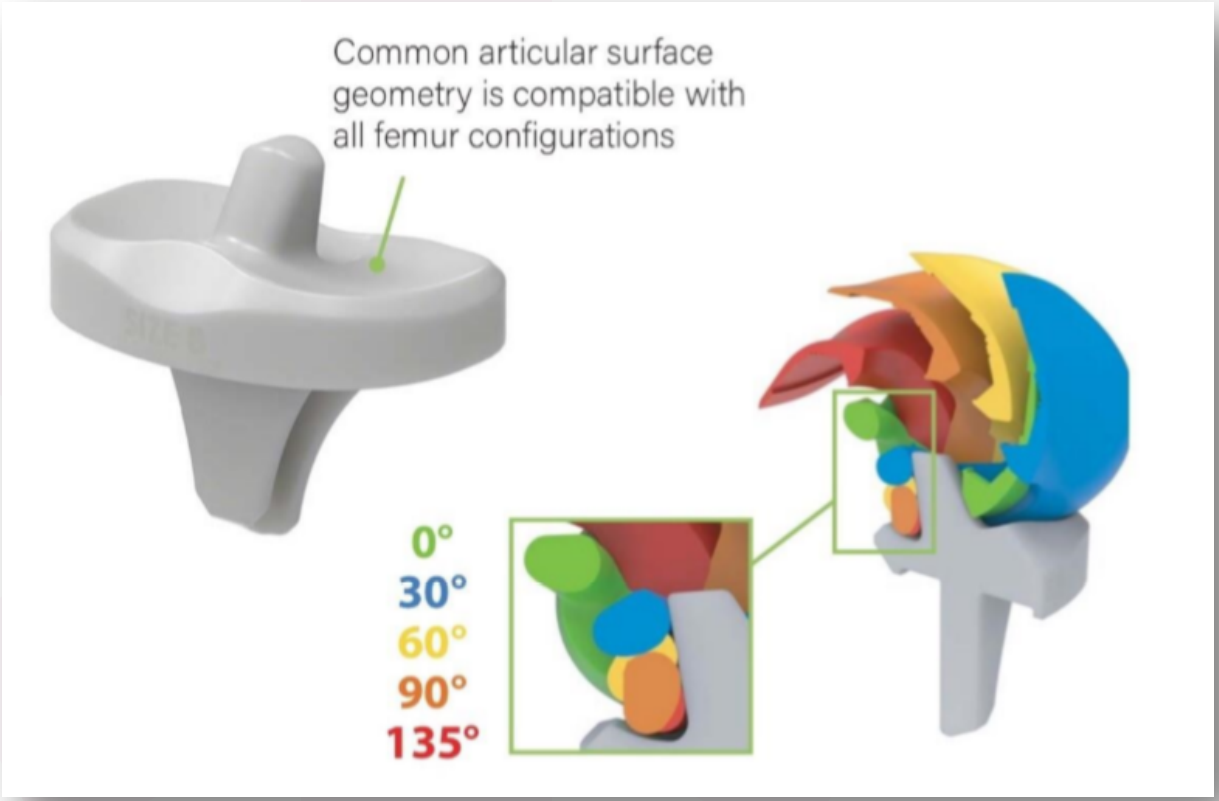
All Poly Tibia





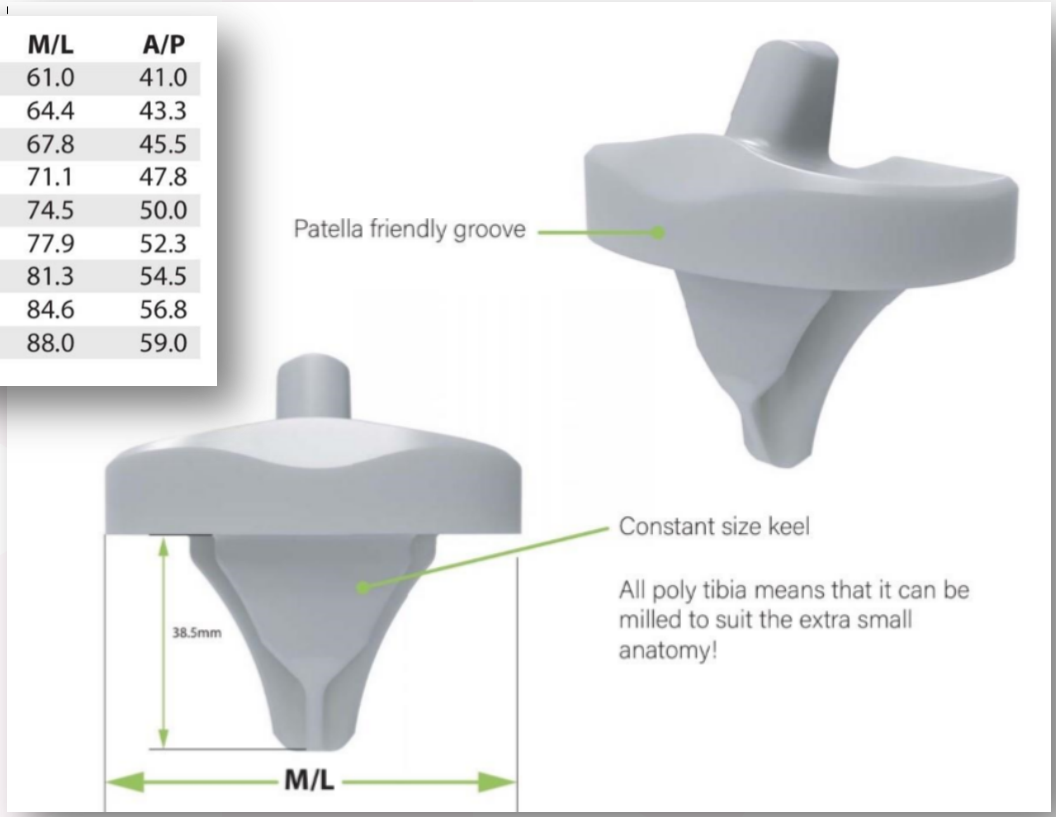
Machined undercut for positive cement locking.
340% more pull out force required.

All Poly Tibia



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



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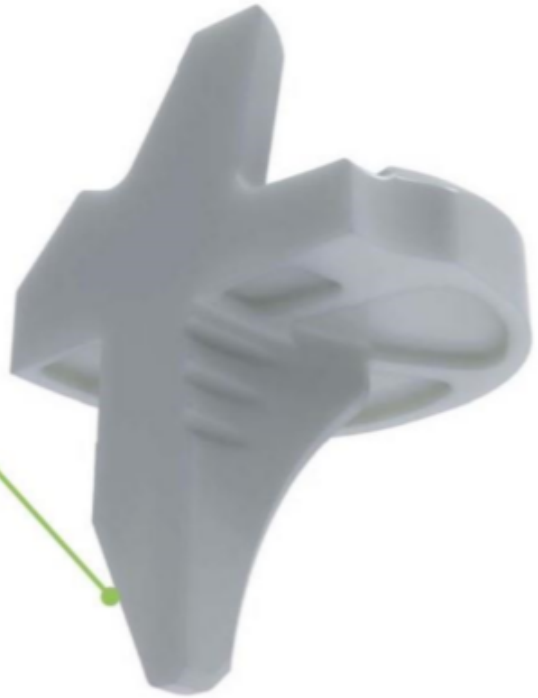
Anterior keel has a large chamfer, to avoid cortical bone.

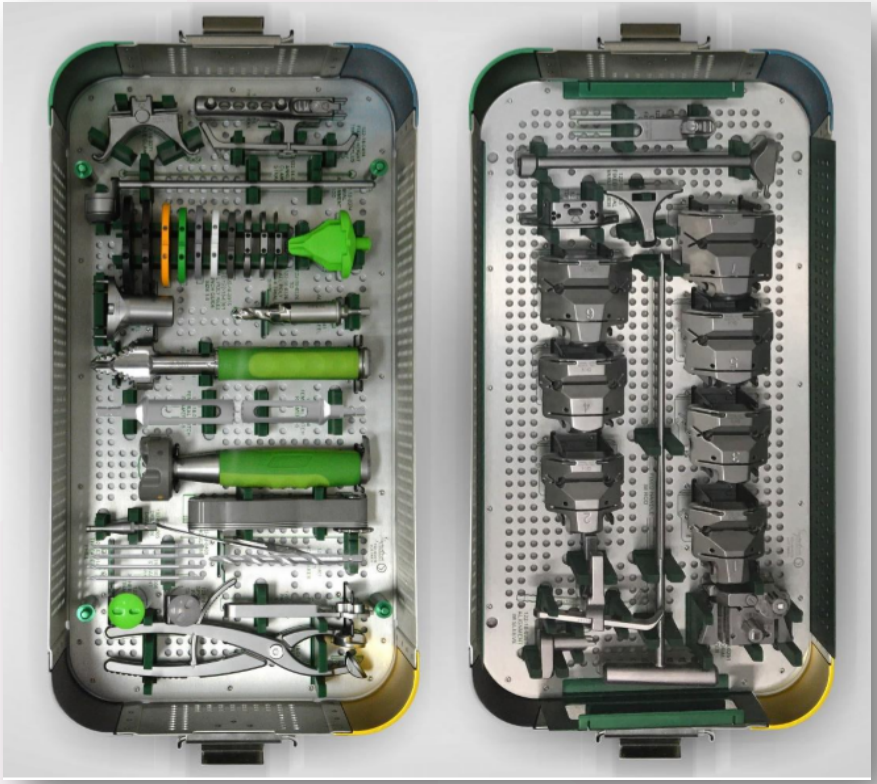


Patella component

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



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Thank you

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