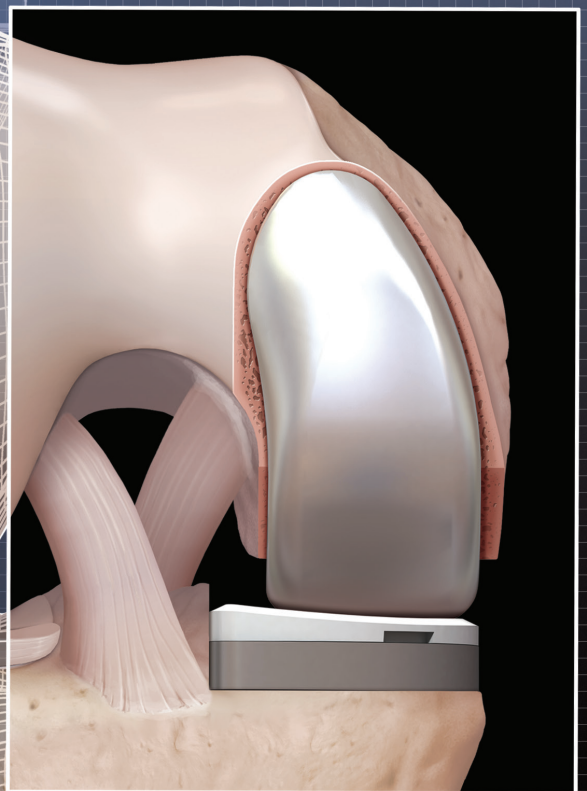


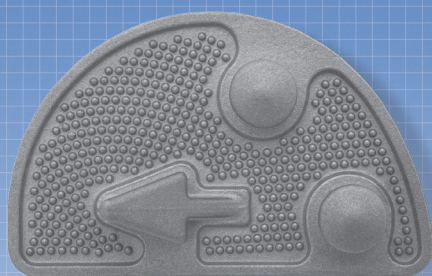
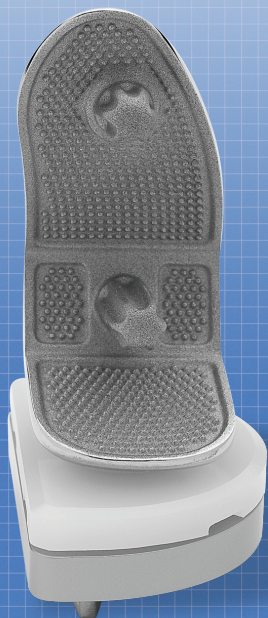
iBalance® UKA SYSTEM

**An Evolution
in Unicondylar
Knee Resurfacing**



Arthrex®

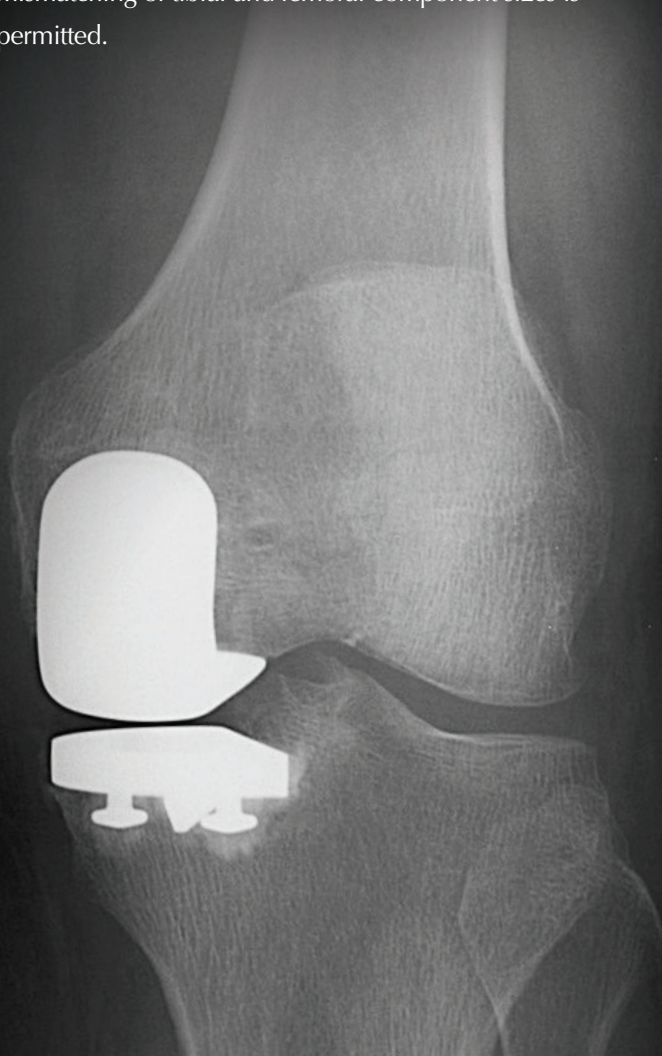
iBalance® UKA Implants – Anatomic Design



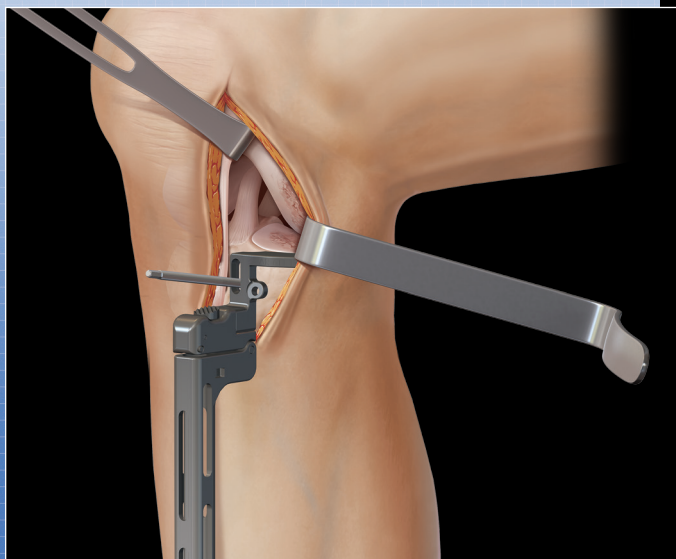
The anatomic, single-radius femoral implants have a sagittal geometry that maintains appropriate collateral tension throughout the range-of-motion and a forgiving coronal geometry which can maintain conformity with up to 10° of malalignment. A tapered anterior aspect helps to reduce the incidence of patellar abutment. Secure fixation of the cemented femoral component is achieved through dual-fluted pegs, and a micro- and macro-textured surface for increased surface area of the bone cement to the implant.

The tibial baseplate is available in six sizes to ensure proper cortical rim fit on the tibia. The tibial components also feature a micro and macro-textured surface along with an innovative anchoring keel and mushroom pegs for secure fixation.

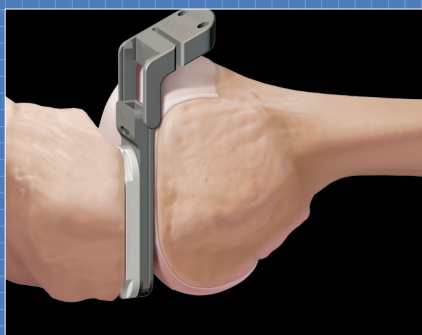
The fixed bearing polyethylene components are secured to the tibial baseplate with a peripheral locking mechanism and are easily inserted with minimal force. The entire construct is an open articulation, and infinite mismatching of tibial and femoral component sizes is permitted.



Surgical Technique



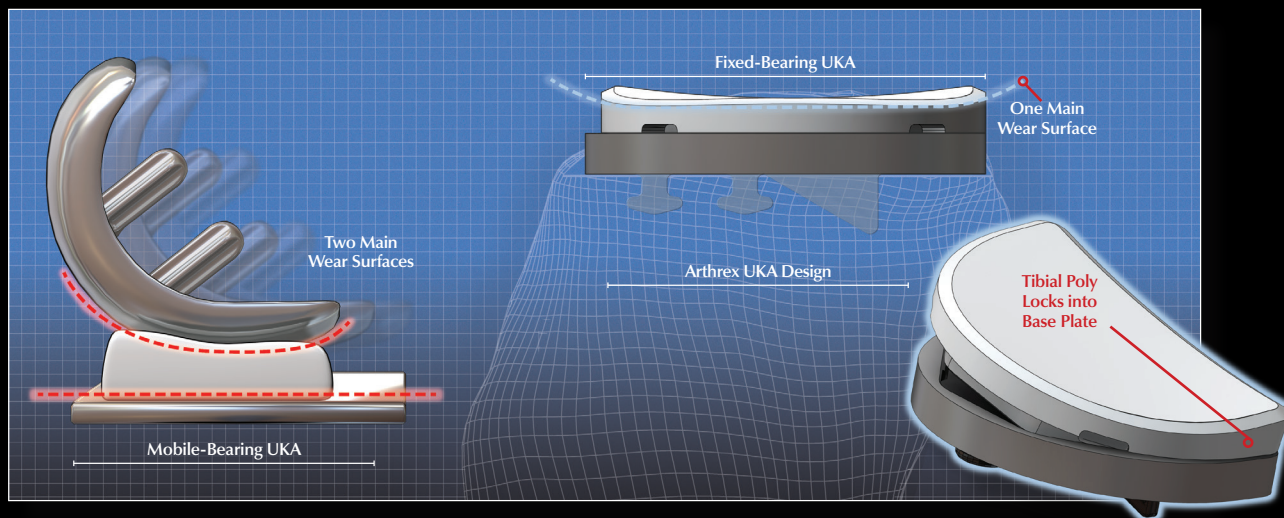
The instrumentation system is minimalistic and designed to be intuitive for the surgeon and OR staff, helping to reduce the learning curve. It is the first of its kind to allow for precise flexion and extension gap balancing, ensuring the right collateral tension for every patient by minimizing overstuffing, while maintaining appropriate laxity of the joint. After the tibial cut has been made, the gaps are measured and the femur is prepared using a tibial referenced, linked femoral resection system to ensure highly accurate and parallel cuts prior to implant sizing and trialing. The end result is an accurate, balanced resurfacing through precise instrumentation.



The iBalance® UKA surgical technique provides for a reproducible, calculated and independent method of balancing the flexion and extension gaps following the tibial resection. The gaps may be checked at each step in the technique, ensuring accuracy of the balance prior to committing to the implant size. This prevents the over- or under-resection of the femoral bone that could result in relative compartment laxity or overstuffing. This technique provides a predictable, balanced result that ensures near-natural kinematics of the operative compartment.

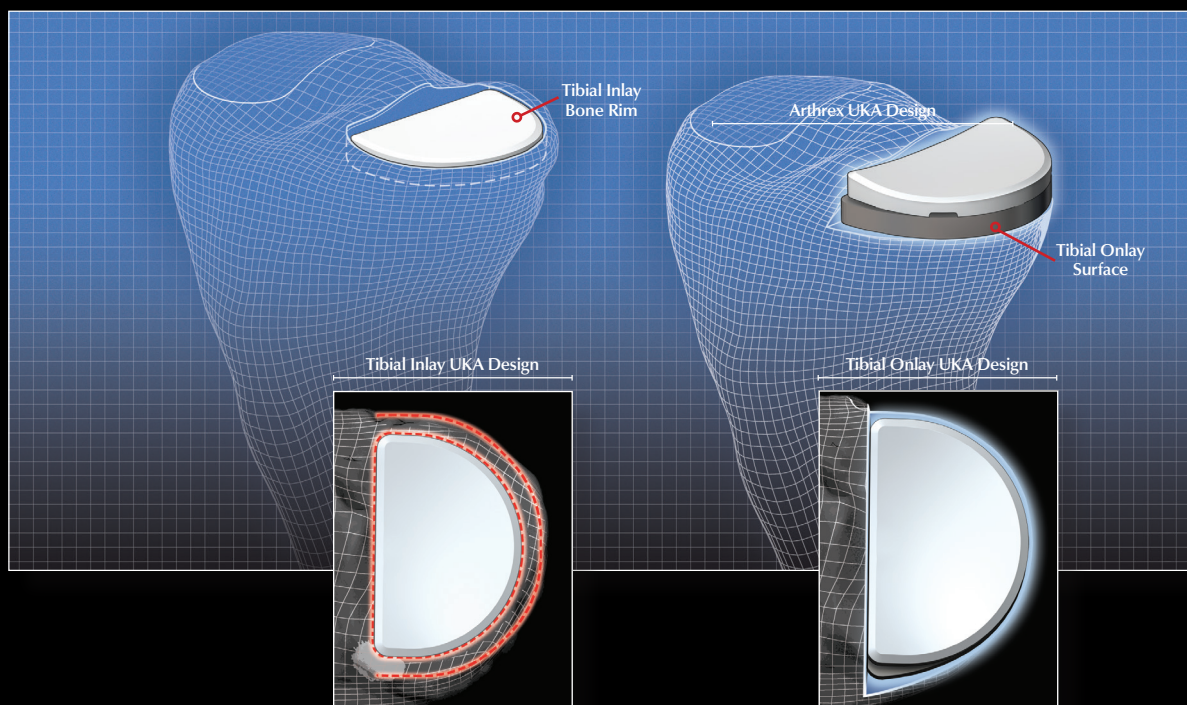
Design Rationale

The iBalance® UKA System is designed to maximize the modern advances in unicondylar knee arthroplasty. Surgical technique, implant design and materials are some factors that help promote solid fixation of the implants, proper kinematic restoration of the compartment and implant longevity. The patented Arthrex keel design resists anterior shear forces and anchors the tibial component in position.



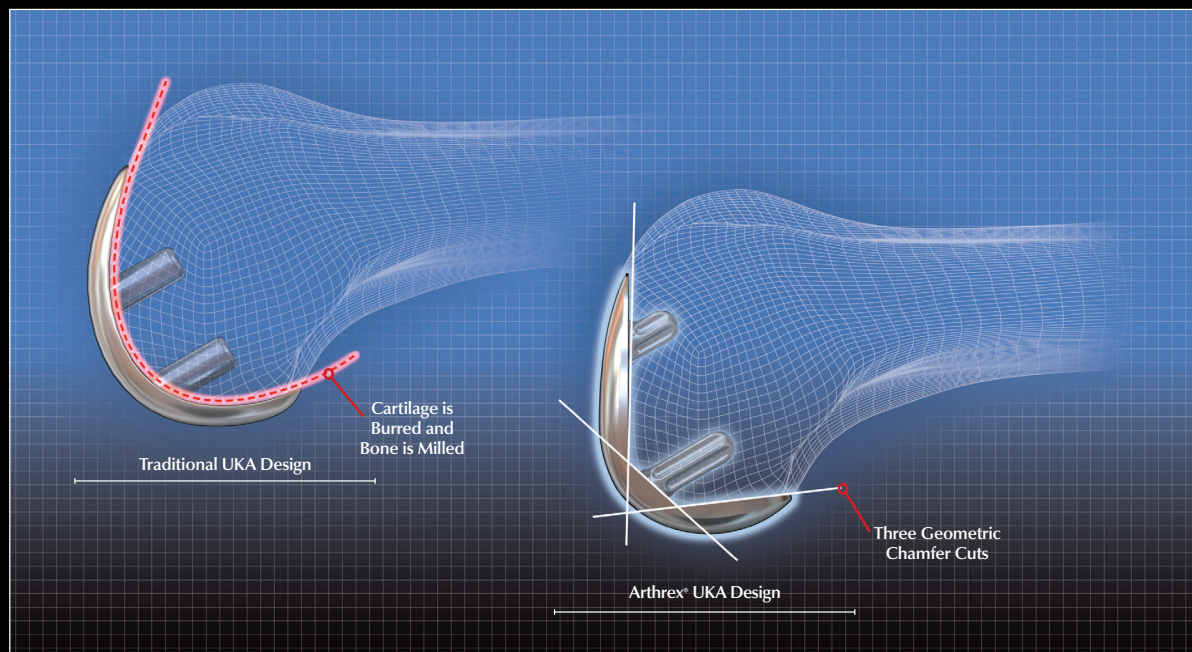
Why a fixed-bearing?

The advent of mobile-bearing UKA designs were a solution to early loosening concerns which plagued early fixed-bearing options. However, new modes of failure were introduced including bearing dislocation, increased overcorrection and multiple wear surfaces. The iBalance UKA fixed-bearing design utilizes a peripheral locking mechanism which secures the bearing into position, allows for anatomic laxity which decreases the risk of overcorrection and limits wear to the tibiofemoral articulation.



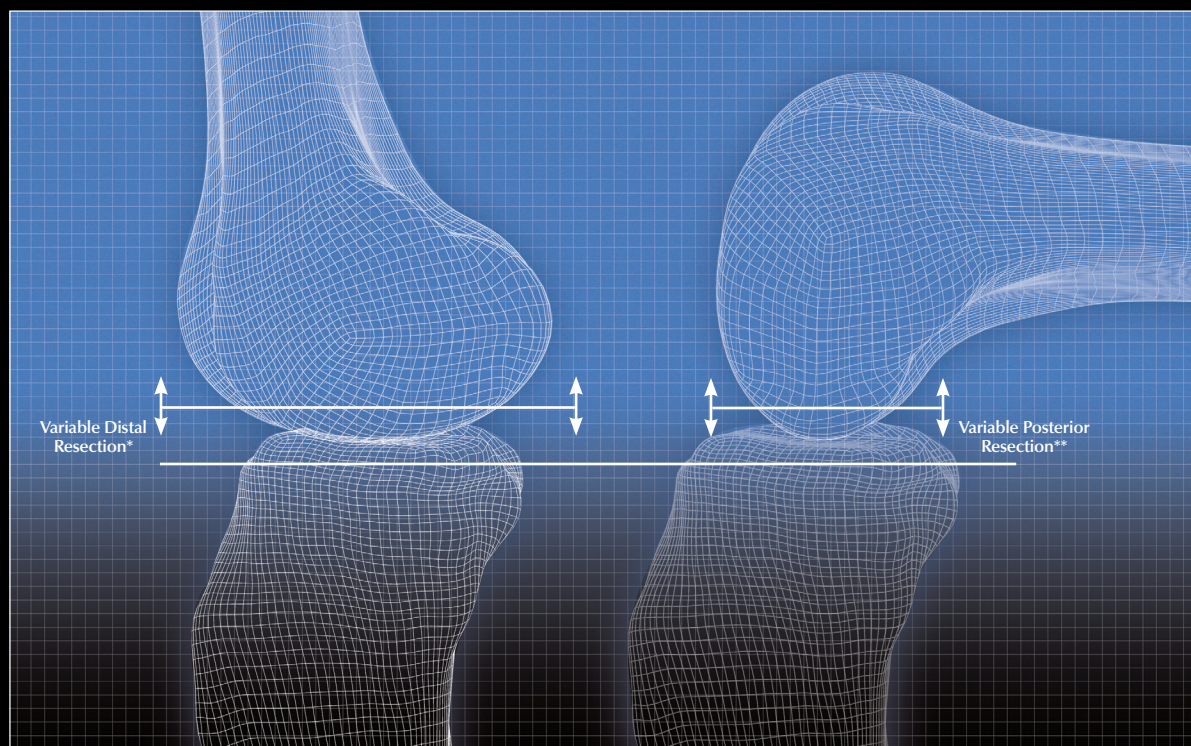
Why tibial onlay?

Because of the relatively small surface area of bone that is resurfaced in a UKA procedure, the shear forces distributed across the implants can be significant. Therefore, it is important that the cortical bone of the proximal tibia is properly loaded and the implant is well-fixed. A tibial onlay device allows the tibial bone to be prepared with a flat, planar cut that closely matches the geometry of the tibial implant. This ensures a more precise fit of the implant and may limit the risk of micromotion, subsidence, and loosening of the component.



Why chamfer cut femoral preparation?

Preparing the femur with predictable cuts, as opposed to burring the cartilage or milling the bone, allows for more reproducible outcomes without the necessity for costly robotic equipment. The bone is geometrically prepared, thus the planar surfaces created in conjunction with the single-radius femoral component will appropriately tension the collateral ligament throughout the range-of-motion.



Why gap-balancing?

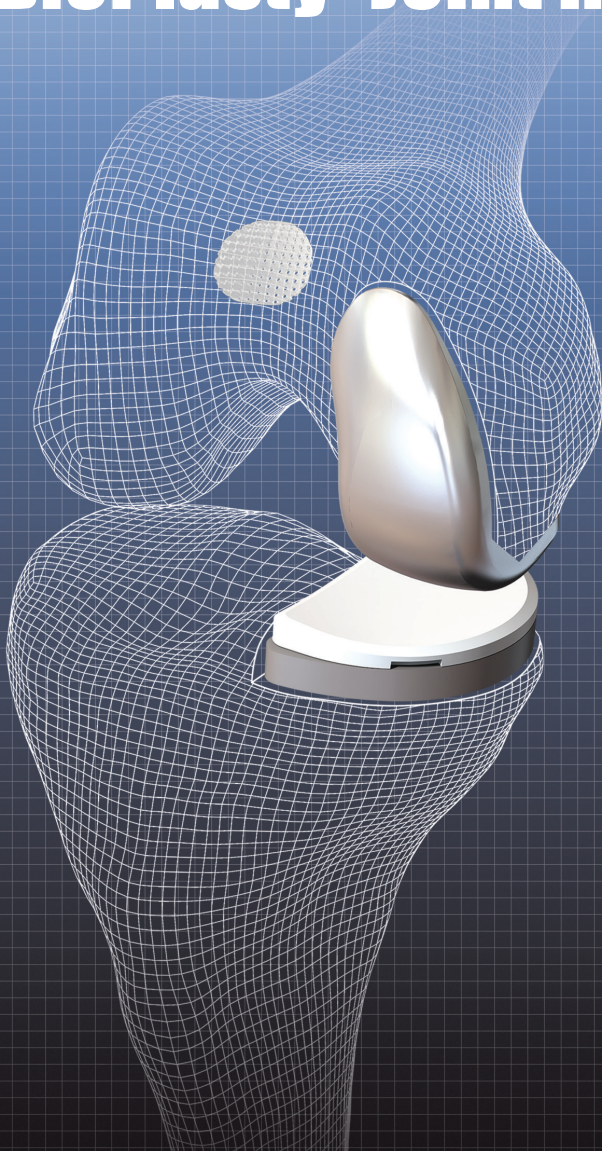
Proper tension of the MCL is a key goal in unicondylar knee arthroplasty. The iBalance® UKA system delivers the unique ability to vary both the distal and posterior femoral resections to ensure balanced gaps are readily attainable. Having independent control over the flexion and extension space provides patient-specific control of the joint line while maximizing tibial bone preservation. This flexibility ensures the capacity to manage virtually any unicondylar defect medially or laterally.

*4-10 mm options available

**3-10 mm options available

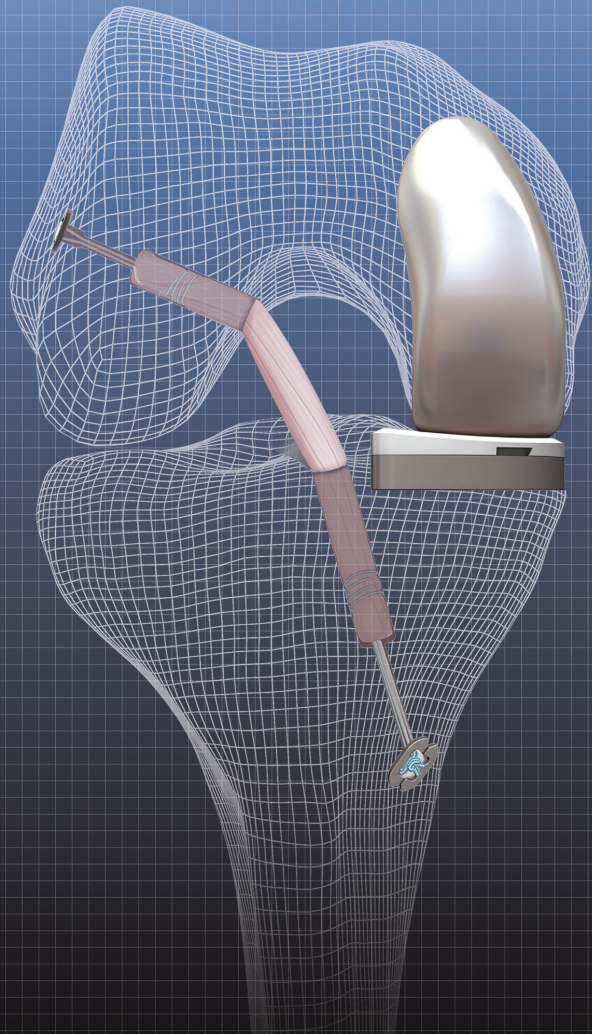
Biologic solutions which help surgeons commit to the most conservative joint restoration procedures available

BioPlasty™ Joint Resurfacing



iBalance® UKA with Osteochondral Resurfacing

- Address osteochondral and trochlear lesions at the time of surgery with advanced biological solutions
- Cartiform®* cryopreserved, viable osteochondral allograft resurfacing for small to large lesions with minimal bony involvement
- BioCartilage® Extracellular Matrix mixed with ACP or Angel® BMC creates a cellular scaffold to augment marrow stimulation procedures



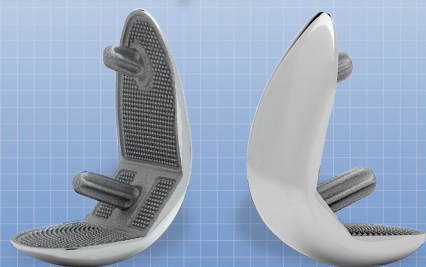
iBalance UKA with Ligament Reconstruction

- Proprietary RetroConstruction™ and FlipCutter® options provide ultimate control of socket location, graft placement and bone preservation
- TightRope® adjustable suspensory fixation options provide high strength** while promoting maximum graft to tunnel engagement and incorporation
- Allograft GraftLink® presutured grafts provide a minimally invasive option to preserve the native tendons

*Cartiform® is a registered trademark of Osiris Therapeutics, Inc.

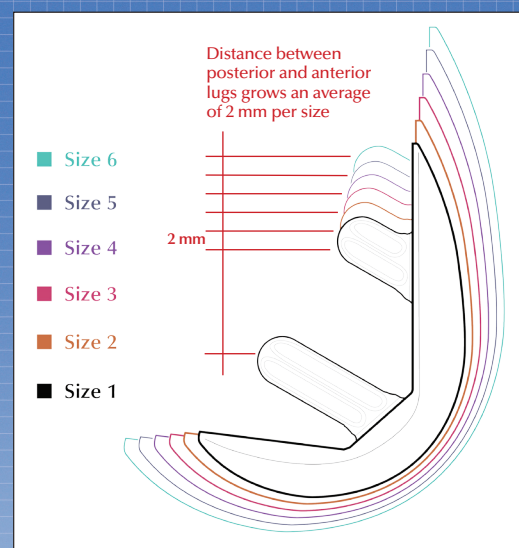
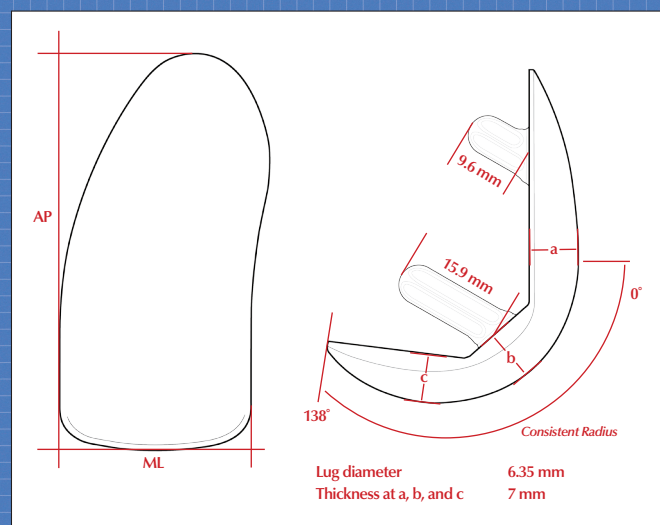
**Data on File

Technical Specs – Femur

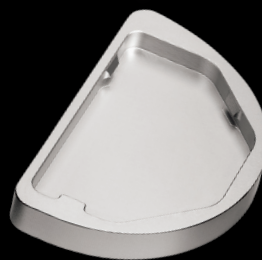


Femoral Component Sizing

	ML	AP
Size 1	19 mm	42 mm
Size 2	21 mm	45 mm
Size 3	22.75 mm	47 mm
Size 4	24.25 mm	50 mm
Size 5	25.5 mm	52 mm
Size 6	26.5 mm	54 mm

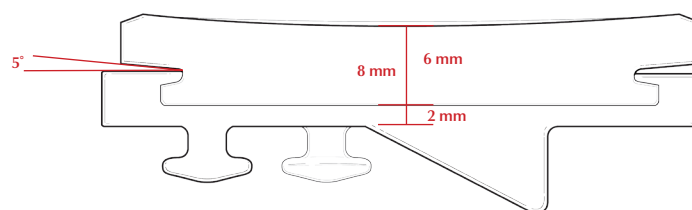
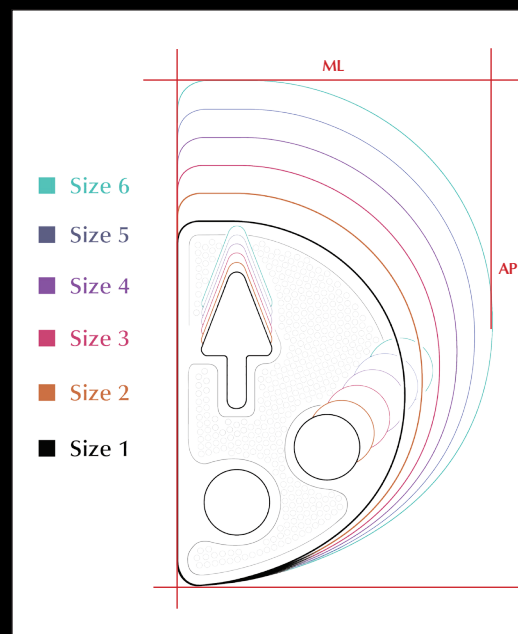


Technical Specs – Tibia



Tibial Component Sizing

	ML	AP
Size 1	24 mm	39 mm
Size 2	26 mm	42 mm
Size 3	28 mm	45 mm
Size 4	30 mm	48 mm
Size 5	32 mm	51 mm
Size 6	34 mm	54 mm



The polyethylene thickness is defined as the composite thickness of polyethylene component and tibial tray.

Ordering Information - UKA Implants

Femoral Components

Femoral Component, size 1, LM	AR-501-UFLA
Femoral Component, size 2, LM	AR-501-UFLB
Femoral Component, size 3, LM	AR-501-UFLC
Femoral Component, size 4, LM	AR-501-UFLD
Femoral Component, size 5, LM	AR-501-UFLE
Femoral Component, size 6, LM	AR-501-UFLF
Femoral Component, size 1, RM	AR-501-UFRA
Femoral Component, size 2, RM	AR-501-UFRB
Femoral Component, size 3, RM	AR-501-UFRC
Femoral Component, size 4, RM	AR-501-UFRD
Femoral Component, size 5, RM	AR-501-UFRE
Femoral Component, size 6, RM	AR-501-UFRF

Polyethylene Components

Tibial Bearing, size 1, 8 mm	AR-501-TBA8
Tibial Bearing, size 1, 9 mm	AR-501-TBA9
Tibial Bearing, size 1, 10 mm	AR-501-TBA0
Tibial Bearing, size 1, 11 mm	AR-501-TBA1
Tibial Bearing, size 1, 12 mm	AR-501-TBA2
Tibial Bearing, size 1, 14 mm	AR-501-TBA4
Tibial Bearing, size 2, 8 mm	AR-501-TBB8
Tibial Bearing, size 2, 9 mm	AR-501-TBB9
Tibial Bearing, size 2, 10 mm	AR-501-TBB0
Tibial Bearing, size 2, 11 mm	AR-501-TBB1
Tibial Bearing, size 2, 12 mm	AR-501-TBB2
Tibial Bearing, size 2, 14 mm	AR-501-TBB4
Tibial Bearing, size 3, 8 mm	AR-501-TBC8
Tibial Bearing, size 3, 9 mm	AR-501-TBC9
Tibial Bearing, size 3, 10 mm	AR-501-TBC0
Tibial Bearing, size 3, 11 mm	AR-501-TBC1
Tibial Bearing, size 3, 12 mm	AR-501-TBC2
Tibial Bearing, size 3, 14 mm	AR-501-TBC4
Tibial Bearing, size 4, 8 mm	AR-501-TBD8
Tibial Bearing, size 4, 9 mm	AR-501-TBD9
Tibial Bearing, size 4, 10 mm	AR-501-TBD0
Tibial Bearing, size 4, 11 mm	AR-501-TBD1
Tibial Bearing, size 4, 12 mm	AR-501-TBD2
Tibial Bearing, size 4, 14 mm	AR-501-TBD4
Tibial Bearing, size 5, 8 mm	AR-501-TBE8
Tibial Bearing, size 5, 9 mm	AR-501-TBE9
Tibial Bearing, size 5, 10 mm	AR-501-TBE0
Tibial Bearing, size 5, 11 mm	AR-501-TBE1
Tibial Bearing, size 5, 12 mm	AR-501-TBE2
Tibial Bearing, size 5, 14 mm	AR-501-TBE4
Tibial Bearing, size 6, 8 mm	AR-501-TBF8
Tibial Bearing, size 6, 9 mm	AR-501-TBF9
Tibial Bearing, size 6, 10 mm	AR-501-TBF0
Tibial Bearing, size 6, 11 mm	AR-501-TBF1
Tibial Bearing, size 6, 12 mm	AR-501-TBF2
Tibial Bearing, size 6, 14 mm	AR-501-TBF4

Tibial Components

Tibial Tray Component, size 1, LM	AR-501-TTLA
Tibial Tray Component, size 2, LM	AR-501-TTLB
Tibial Tray Component, size 3, LM	AR-501-TTLC
Tibial Tray Component, size 4, LM	AR-501-TTLD
Tibial Tray Component, size 5, LM	AR-501-TTLE
Tibial Tray Component, size 6, LM	AR-501-TTLF
Tibial Tray Component, size 1, RM	AR-501-TTRA
Tibial Tray Component, size 2, RM	AR-501-TTRB
Tibial Tray Component, size 3, RM	AR-501-TTRC
Tibial Tray Component, size 4, RM	AR-501-TTRD
Tibial Tray Component, size 5, RM	AR-501-TTRE
Tibial Tray Component, size 6, RM	AR-501-TTRF

Polyethylene Components, Vitamin E*

Tibial Bearing, size 1, 8 mm, Vit-E	AR-521-TBA8
Tibial Bearing, size 1, 9 mm, Vit-E	AR-521-TBA9
Tibial Bearing, size 1, 10 mm, Vit-E	AR-521-TBA0
Tibial Bearing, size 1, 11 mm, Vit-E	AR-521-TBA1
Tibial Bearing, size 2, 8 mm, Vit-E	AR-521-TBB8
Tibial Bearing, size 2, 9 mm, Vit-E	AR-521-TBB9
Tibial Bearing, size 2, 10 mm, Vit-E	AR-521-TBB0
Tibial Bearing, size 2, 11 mm, Vit-E	AR-521-TBB1
Tibial Bearing, size 3, 8 mm, Vit-E	AR-521-TBC8
Tibial Bearing, size 3, 9 mm, Vit-E	AR-521-TBC9
Tibial Bearing, size 3, 10 mm, Vit-E	AR-521-TBC0
Tibial Bearing, size 3, 11 mm, Vit-E	AR-521-TBC1
Tibial Bearing, size 4, 8 mm, Vit-E	AR-521-TBD8
Tibial Bearing, size 4, 9 mm, Vit-E	AR-521-TBD9
Tibial Bearing, size 4, 10 mm, Vit-E	AR-521-TBD0
Tibial Bearing, size 4, 11 mm, Vit-E	AR-521-TBD1
Tibial Bearing, size 5, 8 mm, Vit-E	AR-521-TBE8
Tibial Bearing, size 5, 9 mm, Vit-E	AR-521-TBE9
Tibial Bearing, size 5, 10 mm, Vit-E	AR-521-TBE0
Tibial Bearing, size 5, 11 mm, Vit-E	AR-521-TBE1
Tibial Bearing, size 6, 8 mm, Vit-E	AR-521-TBF8
Tibial Bearing, size 6, 9 mm, Vit-E	AR-521-TBF9
Tibial Bearing, size 6, 10 mm, Vit-E	AR-521-TBF0
Tibial Bearing, size 6, 11 mm, Vit-E	AR-521-TBF1

UKA Instrumentation Set (AR-611-S)

iBalance UKA, General Prep Case	AR-611-C1	iBalance UKA Base Plate Trial, sizes 1 – 6	AR-601-TBP1 – TBP6
EM Tibial Guide, proximal body	AR-623-30	iBalance UKA, Side Specific Shell	AR-611-C2
EM Tibial Guide, short distal body	AR-623-31	iBalance UKA RM/LL Instrument Case	AR-611-C2R
EM Tibial Guide Ankle Clamp	AR-623-33	iBalance UKA, Femoral Finish Guide, size 1, RM/LL	AR-611-CR1
Alignment Drop Rod Offset Attachment	AR-611-1	iBalance UKA, Femoral Finish Guide, size 2, RM/LL	AR-611-CR2
Alignment Drop Rod w/Sleeve, 3/16" X 18"	AR-611-2	iBalance UKA, Femoral Finish Guide, size 3, RM/LL	AR-611-CR3
Cement Removal Tool	AR-611-3	iBalance UKA, Femoral Finish Guide, size 4, RM/LL	AR-611-CR4
iBalance UKA Tibial Impactor	AR-611-4	iBalance UKA, Femoral Finish Guide, size 5, RM/LL	AR-611-CR5
iBalance UKA Femoral Impactor	AR-611-6	iBalance UKA, Femoral Finish Guide, size 6, RM/LL	AR-611-CR6
Quick Connect Handle, short	AR-611-8	iBalance UKA, RM/LL Distal Cut Block, 4 mm – 10 mm	AR-611-DR04 – DR10
iBalance UKA Tibial Keel Punch	AR-611-9	iBalance UKA, Femoral Trial, size 1, RM/LL	AR-601-FTRA
iBalance UKA Tibial Peg Drill, ø.290	AR-611-10	iBalance UKA, Femoral Trial, size 2, RM/LL	AR-601-FTRB
iBalance UKA Femoral Peg Drill, ø.260	AR-611-11	iBalance UKA, Femoral Trial, size 3, RM/LL	AR-601-FTRC
iBalance UKA Tibial Lug Hole Stabilizer	AR-611-12	iBalance UKA, Femoral Trial, size 4, RM/LL	AR-601-FTRD
iBalance UKA Component Sizing Guide	AR-611-14	iBalance UKA, Femoral Trial, size 5, RM/LL	AR-601-FTRE
Headed Threaded Pin, short	AR-611-15	iBalance UKA, Femoral Trial, size 6, RM/LL	AR-601-FTRF
Pin Caddy	AR-611-16	iBalance UKA, RM/LL Posterior Cut Block, 3 mm – 10 mm	AR-611-PR03 – PR10
UKA Tibial Stylus, adjustable	AR-611-17	iBalance UKA Tibial Finish Guide, size 1, RM/LL	AR-611-TR1
iBalance TKA Trocar Pin, smooth	AR-613-50	iBalance UKA Tibial Finish Guide, size 2, RM/LL	AR-611-TR2
iBalance UKA Bone Caliper	AR-602-48	iBalance UKA Tibial Finish Guide, size 3, RM/LL	AR-611-TR3
Dilating Rasp, Slot, Meniscal Allograft	AR-2963BR	iBalance UKA Tibial Finish Guide, size 4, RM/LL	AR-611-TR4
iBalance UKA Headless Pin Driver Assembly 1/8" Pins	AR-611-91	iBalance UKA Tibial Finish Guide, size 5, RM/LL	AR-611-TR5
Alignment Drop Rod	AR-601-AR00	iBalance UKA Tibial Finish Guide, size 6, RM/LL	AR-611-TR6
Angel Wing, narrow body	AR-623-76	iBalance UKA Tibial Cut Guide, right	AR-611-TRRM
iBalance UKA Spacer Block Caddy, 11-space	AR-611-C3	iBalance UKA Vertical Cut Guide, right	AR-611-TRLV
iBalance UKA Spacer Block, 6 mm	AR-611-SB06	iBalance UKA LM/RL Instrument Case	AR-611-C2L
iBalance UKA Spacer Block, 7 mm	AR-611-SB07	iBalance UKA Femoral Finish Guide, size 1, LM/RL	AR-611-CL1
iBalance UKA Spacer Block, 8 mm	AR-611-SB08	iBalance UKA Femoral Finish Guide, size 2, LM/RL	AR-611-CL2
iBalance UKA Spacer Block, 9 mm	AR-611-SB09	iBalance UKA Femoral Finish Guide, size 3, LM/RL	AR-611-CL3
iBalance UKA Spacer Block, 10 mm	AR-611-SB10	iBalance UKA Femoral Finish Guide, size 4, LM/RL	AR-611-CL4
iBalance UKA Spacer Block, 15 mm	AR-611-SB15	iBalance UKA Femoral Finish Guide, size 5, LM/RL	AR-611-CL5
iBalance UKA Spacer Block, 16 mm	AR-611-SB16	iBalance UKA Femoral Finish Guide, size 6, LM/RL	AR-611-CL6
iBalance UKA Spacer Block, 17 mm	AR-611-SB17	iBalance UKA LM/RL Distal Cut Block, 4 mm – 10 mm	AR-611-DL04 – DL10
iBalance UKA Spacer Block, 18 mm	AR-611-SB18	iBalance UKA Femoral Trial, size 1, LM/RL	AR-601-FTLA
iBalance UKA Modular Spacer Block, 5 mm & 10 mm	AR-611-SM05 & 10	iBalance UKA Femoral Trial, size 2, LM/RL	AR-601-FTLB
iBalance UKA Tibial Bearing Trial Size 1, 10 mm	AR-601-TBA0	iBalance UKA Femoral Trial, size 3, LM/RL	AR-601-FTLC
iBalance UKA Tibial Bearing Trial, size 1, 11 mm	AR-601-TBA1	iBalance UKA Femoral Trial, size 4, LM/RL	AR-601-FTLD
iBalance UKA Tibial Bearing Trial, size 1, 12 mm	AR-601-TBA2	iBalance UKA Femoral Trial, size 5, LM/RL	AR-601-FTLE
iBalance UKA Tibial Bearing Trial, size 1, 14 mm	AR-601-TBA4	iBalance UKA Femoral Trial, size 6, LM/RL	AR-601-FTLF
iBalance UKA Tibial Bearing Trial, size 1, 8 mm	AR-601-TBA8	iBalance UKA LM/RL Posterior Cut Block, 3 mm – 10 mm	AR-611-PL03 – PL10
iBalance UKA Tibial Bearing Trial, size 1, 9 mm	AR-601-TBA9	iBalance UKA Tibial Finish Guide, size 1, LM/RL	AR-611-TL1
iBalance UKA Tibial Bearing Trial, size 2, 10 mm	AR-601-TBB0	iBalance UKA Tibial Finish Guide, size 2, LM/RL	AR-611-TL2
iBalance UKA Tibial Bearing Trial, size 2, 11 mm	AR-601-TBB1	iBalance UKA Tibial Finish Guide, size 3, LM/RL	AR-611-TL3
iBalance UKA Tibial Bearing Trial, size 2, 12 mm	AR-601-TBB2	iBalance UKA Tibial Finish Guide, size 4, LM/RL	AR-611-TL4
iBalance UKA Tibial Bearing Trial, size 2, 14 mm	AR-601-TBB4	iBalance UKA Tibial Finish Guide, size 5, LM/RL	AR-611-TL5
iBalance UKA Tibial Bearing Trial, size 2, 8 mm	AR-601-TBB8	iBalance UKA Tibial Finish Guide, size 6, LM/RL	AR-611-TL6
iBalance UKA Tibial Bearing Trial, size 2, 9 mm	AR-601-TBB9	iBalance UKA Tibial Cut Guide, left	AR-611-TRLM
iBalance UKA Tibial Bearing Trial, size 3, 10 mm	AR-601-TBC0	iBalance UKA Vertical Cut Guide, left	AR-611-TRLV
iBalance UKA Tibial Bearing Trial, size 3, 11 mm	AR-601-TBC1		
iBalance UKA Tibial Bearing Trial, size 3, 12 mm	AR-601-TBC2		
iBalance UKA Tibial Bearing Trial, size 3, 14 mm	AR-601-TBC4		
iBalance UKA Tibial Bearing Trial, size 3, 8 mm	AR-601-TBC8		
iBalance UKA Tibial Bearing Trial, size 3, 9 mm	AR-601-TBC9		
iBalance UKA Tibial Bearing Trial, size 4, 10 mm	AR-601-TBD0		
iBalance UKA Tibial Bearing Trial, size 4, 11 mm	AR-601-TBD1		
iBalance UKA Tibial Bearing Trial, size 4, 12 mm	AR-601-TBD2		
iBalance UKA Tibial Bearing Trial, size 4, 14 mm	AR-601-TBD4		
iBalance UKA Tibial Bearing Trial, size 4, 8 mm	AR-601-TBD8		
iBalance UKA Tibial Bearing Trial, size 4, 9 mm	AR-601-TBD9		
iBalance UKA Tibial Bearing Trial, size 5, 10 mm	AR-601-TBE0		
iBalance UKA Tibial Bearing Trial, size 5, 11 mm	AR-601-TBE1		
iBalance UKA Tibial Bearing Trial, size 5, 12 mm	AR-601-TBE2		
iBalance UKA Tibial Bearing Trial, size 5, 14 mm	AR-601-TBE4		
iBalance UKA Tibial Bearing Trial, size 5, 8 mm	AR-601-TBE8		
iBalance UKA Tibial Bearing Trial, size 5, 9 mm	AR-601-TBE9		
iBalance UKA Tibial Bearing Trial, size 6, 10 mm	AR-601-TBF0		
iBalance UKA Tibial Bearing Trial, size 6, 11 mm	AR-601-TBF1		
iBalance UKA Tibial Bearing Trial, size 6, 12 mm	AR-601-TBF2		
iBalance UKA Tibial Bearing Trial, size 6, 14 mm	AR-601-TBF4		
iBalance UKA Tibial Bearing Trial, size 6, 8 mm	AR-601-TBF8		
iBalance UKA Tibial Bearing Trial, size 6, 9 mm	AR-601-TBF9		
iBalance UKA Tibial Bearing Puller	AR-601-TBP0		
		Optional Spacer Block Organization (AR-611-SC2)	
		iBalance UKA Space Block Caddy, 12 Space	AR-611-C4
		iBalance UKA Spacer Block, 8 mm	AR-611-SB08
		iBalance UKA Spacer Block, 9 mm	AR-611-SB09
		iBalance UKA Spacer Block, 10 mm	AR-611-SB10
		iBalance UKA Spacer Block, 11 mm	AR-611-SB11
		iBalance UKA Spacer Block, 12 mm	AR-611-SB12
		iBalance UKA Spacer Block, 14 mm	AR-611-SB14
		iBalance UKA Spacer Block, 15 mm	AR-611-SB15
		iBalance UKA Spacer Block, 16 mm	AR-611-SB16
		iBalance UKA Spacer Block, 17 mm	AR-611-SB17
		iBalance UKA Spacer Block, 18 mm	AR-611-SB18
		iBalance UKA Spacer Block, 19 mm	AR-611-SB19
		iBalance UKA Spacer Block, 21 mm	AR-611-SB21
		Optional Instruments	
		iBalance UKA Tibial Fixation Buttress	AR-611-5
		iBalance UKA Tibial Trialing Shim, 2/3 mm	AR-611-7
		iBalance UKA Tibia Trialing Shim, 4/5 mm	AR-611-13
		iBalance UKA Femoral Peg Drill, ø.312	AR-601-FPDO
		iBalance UKA Tibial Peg Drill, ø.312	AR-601-TPDO
		iBalance UKA Tibial Trial Handle	AR-611-18
		EM Tibial Guide, long distal body	AR-623-32

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's directions for use.



View U.S. patent information at www.arthrex.com/corporate/virtual-patent-marking