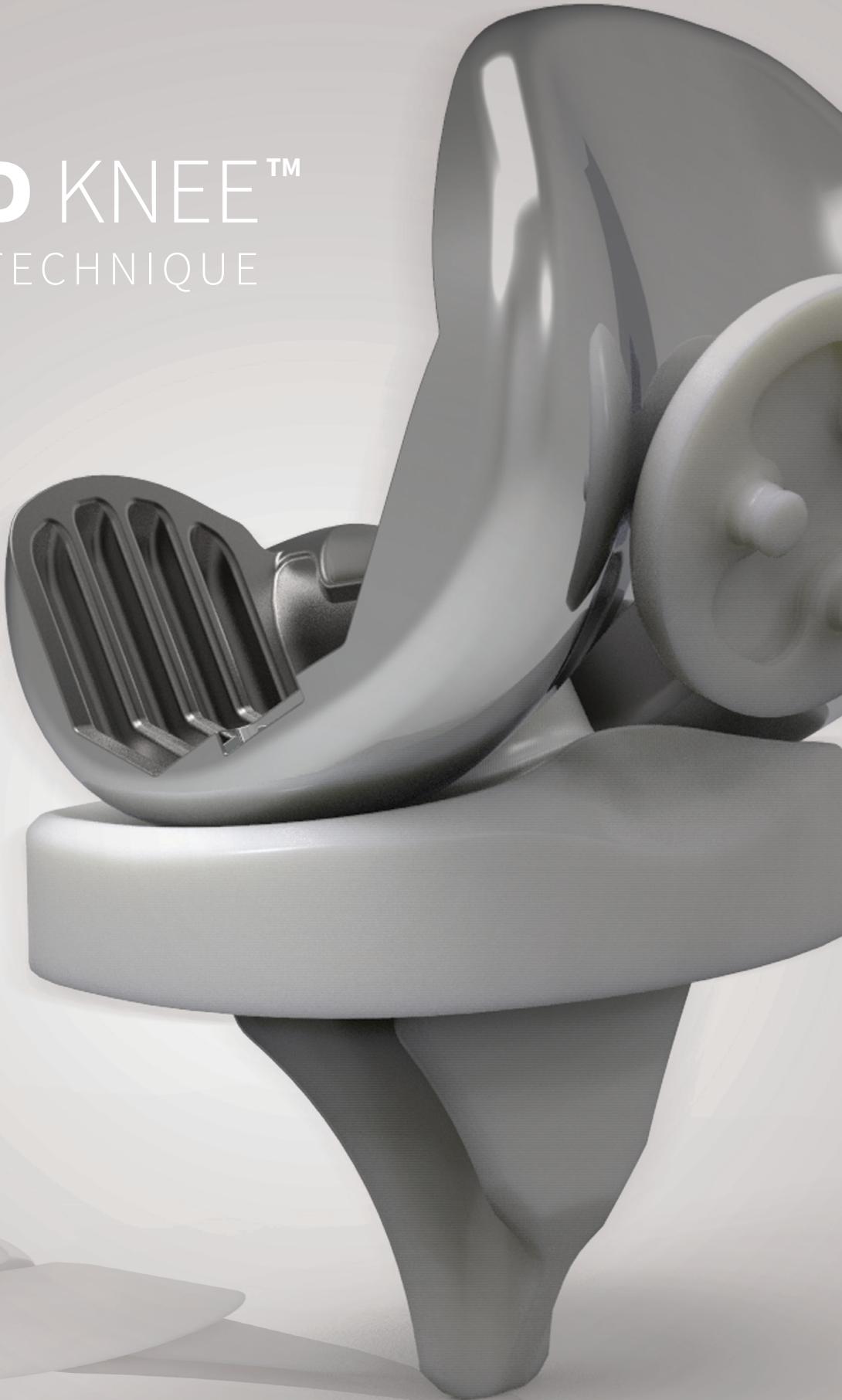


WORLD KNEE™

SURGICAL TECHNIQUE



PRODUCT DESCRIPTION

The Signature Orthopaedics World Knee Total Knee Replacement (TKR) System consists of a femoral implant, a meniscal (tibial) insert, a patella component, and a tibial implant. It is designed to achieve total reconstructive replacement of the deficient and damaged tibiofemoral joint surfaces with metal components and provide a low-friction articulation with a polyethylene bearing. This is to restore optimum function and have longevity of the knee replacement. The World Knee TKA system designed to be both simple, adaptable and appropriate for many markets the world over. The system includes several design features to simplify the surgical technique and instrumentation to ensure the prosthesis is placed accurately and

reliably while benefiting from a modern design rationale to optimize knee kinematics. The World Knee Ultralight instrument set has been designed to simplify and minimize the instruments required to perform a TKA without compromising quality or the surgical approach. Where possible, the instruments have been carefully considered and rationalized. Many instruments have been redesigned to perform multiple functions and extraneous instrumentation has been omitted. As such, the Ultralight instrument set is a minimal set consisting of only the essential instruments required. This has enabled Signature Orthopaedics to offer the Ultralight instrument set as a single two-level tray consisting of 53 pieces to perform the entire technique.



FEMORAL IMPLANT – CEMENTED AND CEMENTLESS

The femoral component is an anatomic, asymmetrically designed prosthesis manufactured from cast cobalt-chromium-molybdenum (CoCrMo – ASTM F75). The design incorporates a trochlear groove, which conforms to the geometry of the patellar prosthesis and allows for sliding articulation. From the medial/lateral view, the condylar geometry has a radial inward and upward sweep in the coronal plane, which assists in maximizing the contact area. The femoral component is available as in posterior stabilized and cruciate retaining designs and several sizes to suit different anatomies. Modular femoral pegs are available for use with CR and PS femoral components and are manufactured from wrought cobalt chromium-molybdenum (CoCrMo – ASTM F1537). The femoral component is also available as variant symmetrical prosthesis. The posterior stabilized and cruciate retaining femoral implants are to be used with their corresponding posterior stabilized or cruciate retaining meniscal inserts. The cemented femoral implant has a grit blast finish on the interior surfaces for enhanced polymethylmethacrylate (PMMA – ISO 5833) fixation. The cemented femoral implant is also available with a Titanium niobium nitride coating. The cementless femoral implant is inferiorly coated with cobalt-chromium-molybdenum beads (CoCrMo – ASTM 1377) and hydroxyapatite (HA – ISO 13779).

TIBIAL IMPLANT – CEMENTED AND CEMENTLESS

The tibial implant is symmetrical and stemmed. The stemmed implants are manufactured from titanium alloy (Ti6Al4V – ASTM F136). The tibial implant is available in several sizes to suit different patient anatomies. The cemented tibial implant has a grit blast finish on the interior surfaces for enhanced polymethylmethacrylate (PMMA – ISO 5833) fixation. The cementless femoral implant is inferiorly coated with titanium beads (ASTM F1580) and hydroxyapatite (HA – ISO 13779.)

MENISCAL (TIBIAL) INSERT

The tibial implant is symmetrical and stemmed. The stemmed implants are manufactured from titanium alloy (Ti6Al4V – ASTM F136). The tibial implant is available in several sizes to suit different patient anatomies. The cemented tibial implant has a grit blast finish on the interior surfaces for enhanced polymethylmethacrylate (PMMA – ISO 5833) fixation. The cementless femoral implant is inferiorly coated with titanium beads (ASTM F1580) and hydroxyapatite (HA – ISO 13779).

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.

ALL-POLYETHYLENE TIBIA IMPLANT – CEMENTED

The all-polyethylene tibial implant is symmetrical and has a webbed keel. It is manufactured from Ultra-High Molecular Weight Polyethylene (UHMWPE – ASTM F648). The all-polyethylene tibial implant is available in multiple sizes and thicknesses with a minimum thickness of 10mm. The all-polyethylene tibial component is available in Standard Cruciate Retaining, Ultracongruent Cruciate retaining and Posterior Stabilized variants.

SYSTEM COMPATIBILITY

Femoral components of the World Knee System are compatible with tibial inserts or the all-polyethylene tibia one size smaller or larger, as shown below. Modular tibial inserts match tibial trays size to size. All patella components are compatible with all femoral components. World Knee femoral pegs are able to be screwed into the World Knee modular peg femoral components only. The posterior stabilized and cruciate retaining femoral implants are to be used with their corresponding posterior stabilized or cruciate retaining meniscal inserts and all polyethylene tibias. Components of the Signature Orthopaedics World Knee replacement system are only to be used with Signature Orthopaedics approved components. Any misuse will negate the responsibility of Signature Orthopaedics for performance of the resulting mixed component implant. Signature Orthopaedics instruments are to be used for the insertion of Signature Orthopaedics knee replacement systems. Any misuse may result in damage to either the instrument or the implant.



		Femoral Sizing									
		PS, CR									
		1	2	3	4	5	6	7	8	9	
Insert Sizing All Poly Tibia Sizing	PS CR UC	1									
		2									
		3									
		4									
		5									
		6									
		7									
		8									
		9									

PRODUCT INDICATIONS, CONTRAINDICATIONS, WARNINGS AND PRECAUTIONS

The patient should be skeletally mature to receive a knee replacement. Patients should have adequate bone stock and size to support and accept the prosthesis.

The patient's need for knee replacement should be due to one or more of the following conditions:

- Non-inflammatory degenerative joint disease including osteoarthritis, traumatic arthritis, or avascular necrosis.
- Inflammatory degenerative joint disease including rheumatoid arthritis.
- Functional deformity such as varus, valgus or flexion deformities.
- Revision procedures where other treatments or devices have failed.
- Fractures that are unmanageable using other techniques.

Signature Orthopaedics' World Knee replacement components may be intended for cemented or cementless use. Please verify whether the particular component is intended for cemented or cementless use by checking the package label.

CONTRAINDICATIONS

Contraindications may be qualified or total, and need to be taken into consideration when evaluating the prognosis in each case. Alternative management techniques to knee replacement may need to be taken into consideration under the following conditions:

- Acute or chronic infections, either local or systemic.
- Severe muscular, nervous or vascular disease endangering the leg.
- Defective bone structures, which would impede adequate anchoring of the implant
- Patients who are younger than 60 years whose joint disease is such that good results may be achieved by using other reconstructive procedures such as osteotomy.
- Any associated diseases which could endanger the function and success of the implant



WARNINGS AND PRECAUTIONS

See Instruction For Use (IFU) for warnings, precautions, adverse effects and other essential product information. The IFU can be accessed online at <http://www.signatureortho.com.au/eifu/>

DISTAL FEMORAL RESECTION

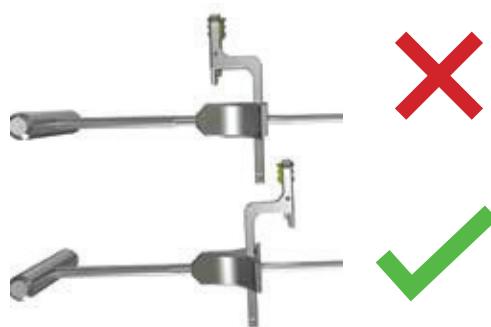
The instrument assembly used to perform the distal femoral resection has been simplified to minimize the number and complexity of instruments required. As such, the Ultralight instrument kit offers a fixed 6° valgus angle on the Varus-Valgus Alignment Guide, and a fixed 9mm resection on the Distal Resection Guide to match the condyle thickness of the World Knee.



ASSEMBLY

To assemble the instruments required for the distal femoral resection, first assemble the Varus-Valgus Alignment Guide over the IM Rod. The V-V Alignment Guide may be inverted for use on either a left or right knee with the side to be used orientated with the marking shown anteriorly.

The Distal Resection Guide may then be assembled into the V-V Alignment Guide by inserting the two prongs of the guide into the slot of the V-V Guide. Care should be taken to ensure that it is assembled into the correct side of the V-V Guide marked with the desired side and the connector is facing proximally.



The TDF Cutting Block may then be assembled onto the Resection Guide. It should be noted that the orientation of the Cutting Block is such that the cutting slot is more distal than the body of the cutting block, though it will only assemble to the Resection Guide in the correct direction.



TECHNIQUE

Use the Drill to open the femoral canal.



The IM Rod, along with the Distal Resection assembly may then be inserted into the femoral canal.

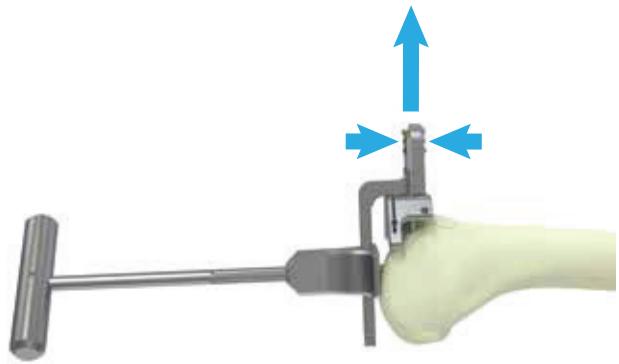


Slide the Distal Femoral Varus-Valgus Guide proximally until it rests against the distal femoral condyles. The Distal Resection Guide with the block attached may then be lowered until the Cutting Block rests on the anterior femur.

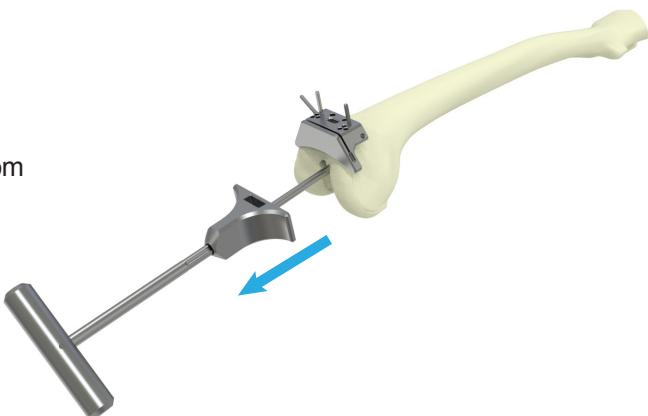


Ensuring the V-V Alignment Guide remains in contact with distal femoral condyles, pin the TDF Cutting Block in place. It is recommended to pin the Cutting Block using the middle set of holes to allow the Block to be shifted distally or proximally 2mm if necessary. The saw blade trajectory may be checked at any time using the Angelwing placed in the cutting slot of the TDF Cutting Block.





To remove the Distal Femoral Resection assembly, depress the button on the connector adjacent to the TDF Cutting Block while gripping the opposing gripped section of the Resection Guide and pull the Resection guide away from the Cutting Block and out of the V-V Alignment Guide.



The IM Rod and V-V Alignment Guide may then be removed from the femoral canal.



If necessary, the Block may be moved in increments of 2mm. Once the desired position is achieved, fix the Block using one or more oblique pin holes and make the resection. Headed pins may be used as needed. Make the resection.

FEMORAL PREPARATION

A key innovation of the World Knee Ultralight instrument set is the Halo 4-in-1 Cutting Block that when coupled with the flexible Femoral Sizer, allow fast sizing, fixation and femoral preparation in a measured resection technique. The Block has been designed to accommodate the Femoral Notch Reamer within the Cutting Block so that the intercondylar notch may be reamed without the need to remove the Block. The system is a posterior-referencing system with a fixed pin toposterior condyle height for all sizes which permits easy downsizing if necessary without altering flexion gap. The Femoral Sizer allows for external rotation to be set in 0, 3, 5 and 7 degree increments and the Sizer may also be adjusted +/-1mm in the AP direction to accommodate an in-between size, biased in the direction of the surgeon's preference.

The Femoral Sizer has been designed to offer as much adjustment and information as possible so that the drill hole positions for the Cutting Block are positioned optimally prior to placing the Cutting Block. This ensures that when the Cutting Block is placed, it is in the ideal position and does not need to be repositioned.

The Halo Cutting Blocks are designed to reflect the width of the prosthesis where marked on the anterior edges of the block. The posterior portion of the Cutting Block has been widened to ensure a full posterior chamfer cut can be made while offering protection to the co-lateral ligaments. Likewise, the Femoral Sizer illustrates the width of all femur sizes as marked along the edge of the instrument.

ASSEMBLY

To assemble the Femoral Sizer, insert the stylus subassembly into the top of the Femoral Sizer.



TECHNIQUE

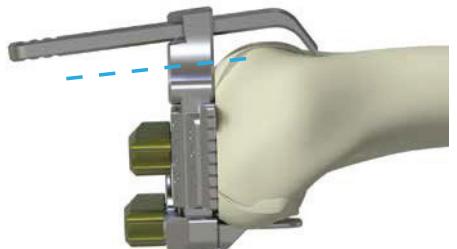
Place the Femoral Sizer against the resected distal femur, ensuring that the paddles of the Sizer are in contact with the posterior condyles.



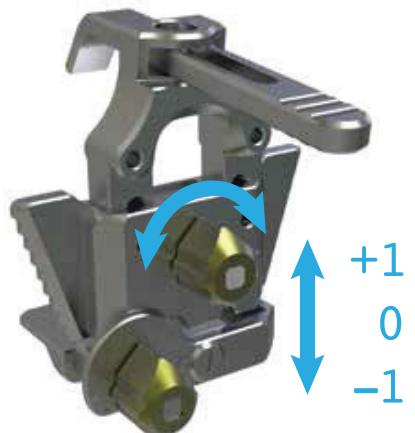
The amount of external rotation may be adjusted on the Sizer as desired.



Lift the Sizer stylus and position it proximal to the anterior trochlear groove. The angle of the stylus matches that of the anterior resection.



The size may be read off the edge of the Femoral Sizer, as well as checked on the anterior stylus. Where the femur is between sizes, the dial on the front of the Sizer may be turned to shift the femur 1mm anteriorly or posteriorly as desired. The sides of the Sizer can be used to compare the chosen size with the size of the femur, and the ML position of the sizer should be confirmed to be central prior to drilling the pin holes. Once the ML position of the Sizer and size has been confirmed, the pin holes may be drilled, and the Femoral Sizer removed.



Place the Halo Cutting Block of the chosen size onto the distal femur, located in the two previously drilled holes. Lightly impact the Cutting Block in place so that it is flush with the femur.



The saw blade trajectories for anterior and posterior resections may be checked with the Angelwing.



Once the size and position has been confirmed, fix the Block using one or more oblique pin holes. The anterior, posterior and both chamfer resections may be performed in the preferred order. If lugs are to be used on the femur, the Drill can be used through the Cutting Block to drill the lug holes.



If a PS femur is also to be used, the Femoral Notch Reamer of the appropriate size may be passed through the Halo of the Cutting Block to complete the femoral preparation.



To remove the Halo Cutting Block from the femur, insert the Block Pusher into the halo on the Cutting Block and insert it as posteriorly as possible. Squeeze the grip of the Block Pusher to eject the Block from the femur. Alternatively, a mallet and small punch may be used against the edges of the Cutting Block to remove the block from the femur. Once the Cutting Block has been removed, the sides of the PS notch may be cleaned up with a saw blade to ensure the sides of the notch are parallel.



TRIALING / IMPLANTATION

The World Knee universal femoral component is a cemented only femur. With the cement applied, the femur may be placed by hand onto the prepared femur. Final impaction of the femoral component may be performed by using the D-Pad with the concave surfaces engaged with the condyles of the femur.



TIBIAL ALIGNMENT AND RESECTION

The World Knee All Poly Tibia has a built-in posterior slope of 3° and therefore the tibial resection may be made perpendicular to the tibia. The EM Alignment Sleeve has this fixed perpendicularity built in, but some posterior slope may be added if necessary, by adjusting the distal portion of the Tibial Alignment Rod.



ASSEMBLY

A key feature of the World Knee Ultralight instrument set is the Multi-Function Alignment (MFA) tibial alignment system. This system consists of several instruments that may be assembled in either an Extramedullary (EM) or Intramedullary (IM) configuration depending on surgeon preference.



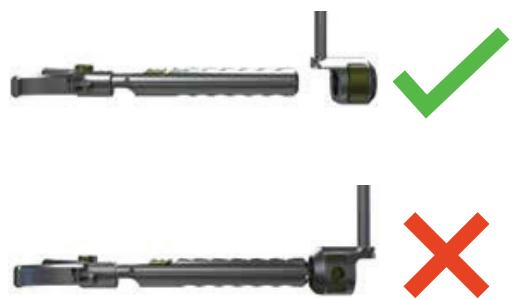
To assemble the MFA instruments into an EM conuration, start by assembling the Monorail to the Ankle Clamp.



The Tibial Alignment Rod may then be assembled to the Monorail by depressing the side button and sliding the knuckle over the Monorail with the rod biased towards the Ankle Clamp.



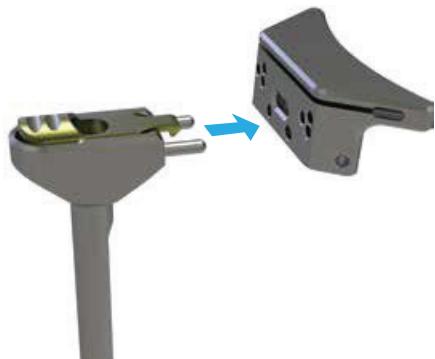
The Alignment Rod can be assembled in two different orientations but should be assembled so that it is on the same side as the ML adjustment button on the Ankle Clamp. This will ensure that when the Alignment Rod is pointed proximally, the ML adjustment button on the Ankle Clamp is also facing proximally. Assembling the Rod facing either side will work, however.



The Tibial Alignment Sleeve may then be slid over the Tibial Alignment Rod. The Alignment Sleeve should always be assembled with the connector for the Tibial Cutting Block aligned proximally.



The Tibial and Distal Femoral (TDF) Cutting Block may then be assembled to the Tibial Alignment Sleeve.



This forms the assembly for EM alignment for the tibial resection. The Fixed Height Tibial Stylus may also be assembled in to the TDF Cutting Block cutting slot to check the tibial resection in either 2mm or 9mm resection amounts.

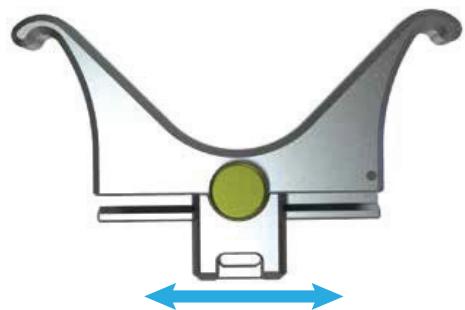


TECHNIQUE

Once the MFA EM Alignment Jig has been assembled, place the Ankle Clamp at the ankle ensuring alignment distally between the second and third metatarsals and secure in place with the silicone strap. Position the Tibial Cutting Block against the anterior tibia, matching the long axis of the tibia.



The ML position of the rod distally may be adjusted via the push button to alter the varus/valgus angle of the tibial resection. Depress the button and slide the distal portion of the rod in the desired direction.



With the Fixed Height Stylus assembled into the cutting slot of the TDF Cutting Block, the height of the resection may be determined.



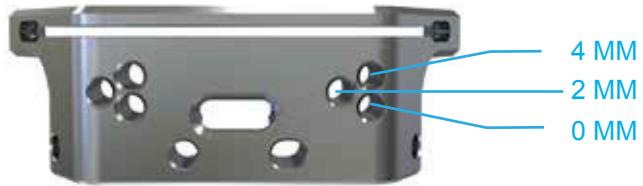
The Alignment Sleeve has no manual height adjustment but will slide with friction into the desired position and hold in place. The Alignment Sleeve has a fixed 0° slope tibial resection to match the All Poly Tibia. Some posterior slope may be induced if necessary, by depressing the side button and sliding the Tibial Alignment Rod anteriorly on the Monorail.



Once the correct height of the Cutting Block has been achieved, the Block may be pinned in place. It is recommended to use the most distal set of pin holes to allow the Cutting Block to be shifted further distally if necessary. The Angelwing may be passed through the cutting slot to check the saw blade trajectory prior to resection.



If necessary, the Block may be moved in increments of 2mm.



To remove the MFA assembly from the Cutting Block, depress the clip adjacent to the Block and withdraw the connector from the Cutting Block. The Ankle Clamp may then be removed from the ankle.



The alignment of the Cutting Block may be checked at any time after the Alignment Jig has been removed by attaching the Monorail directly to the Cutting Block. The IM rod may then be passed through the Monorail to check alignment with the distal tibia.



Once the desired position is achieved, fix the Block using pins in one or more oblique pin holes. Headed pins may be used as needed. Make the resection.



TIBIAL ALIGNMENT AND RESECTION

ASSEMBLY

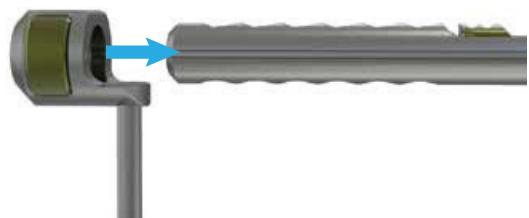
The assembly for the intramedullary technique uses the same instruments as for extramedullary, except the Ankle Clamp is replaced with the IM Rod Sleeve.



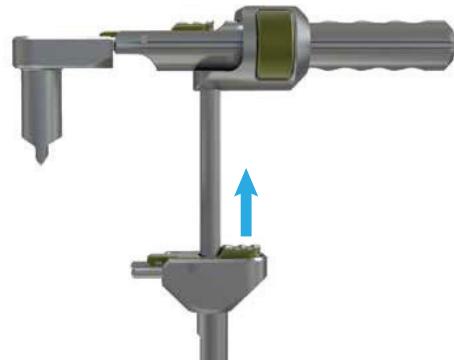
To assemble the MFA instruments into an IM configuration, start by connecting the Monorail to the IM Rod Sleeve.



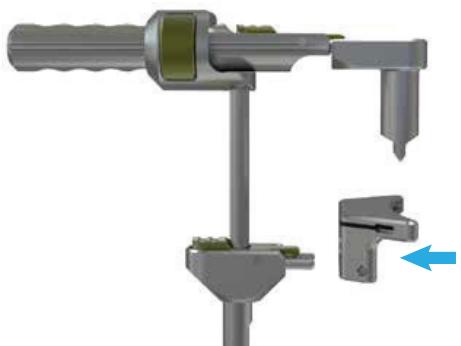
The Tibial Alignment Rod is again assembled to the Monorail by depressing the side button and sliding the knuckle over the Monorail, this time taking care to ensure the rod is orientated distally.



The Tibial Alignment Sleeve may then be slid over the Tibial Alignment Rod ensuring the connector for the TDF Cutting Block is orientated proximally.



The TDF Cutting Block is then be assembled to the Alignment Sleeve.



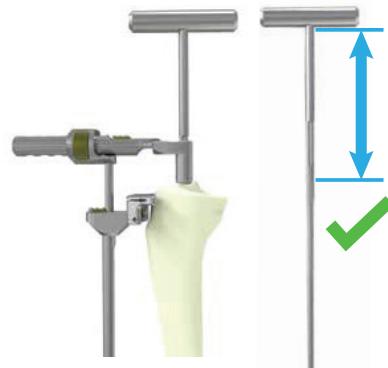
As the IM Rod has a fixed handle, the IM MFA Assembly must be assembled to the IM Rod prior to insertion into the tibial medullary canal. The Fixed Height Tibial Stylus may then be used to assess resection amount by inserting it into the cutting slot of the Block.

TECHNIQUE

Using the Drill, open the tibial canal taking care to aim centrally down the canal.



Insert the IM Rod along with the Alignment Jig into the tibial canal. The IM Rod should be sufficiently inserted so that the full diameter of the rod is engaged with the cortex of the femur and with the IM Rod Sleeve. The IM Rod Sleeve should sit against the tibial tuberosity.



The AP position of the Cutting Block may be adjusted by depressing the side button the Tibial Alignment Rod and sliding the rod along the Monorail. With the TDF Cutting Block in the approximately correct position, the rotation of the jig may be stabilized by tapping the edge of the IM Sleeve lightly with a mallet to engage the spikes with the tibia.



Using the Fixed Height Tibial Stylus, adjust the height of the TDF Cutting block to achieve the desired amount of resection. Once the correct height of the Cutting Block has been achieved, the Block may be pinned in place.



It is recommended to use the most distal set of pin holes to allow the Cutting Block to be shifted further distally if necessary.

The Angelwing may be passed through the cutting slot to check the saw blade trajectory prior to resection.



To remove the IM MFA assembly, depress the button on the Tibial Alignment Sleeve connector adjacent to the Cutting Block and simultaneously depress the button on the Monorail adjacent to the IM Sleeve.

The Alignment Sleeve, Alignment Rod and Monorail may then be slid anteriorly sufficiently to clear the Cutting Block. The MFA assembly may then be removed and the IM Rod may be lifted proximally and withdrawn from the tibial canal.

If necessary, the Block may be moved in increments of 2mm.

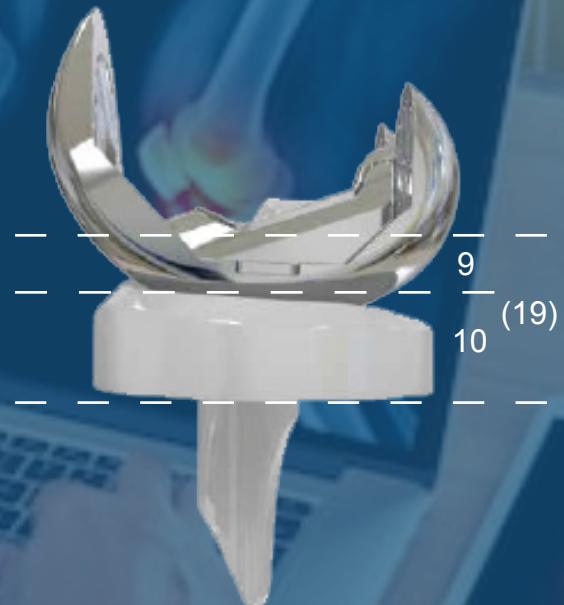


The alignment of the Cutting Block can be checked at any time after the Alignment Jig has been removed by attaching the Monorail directly to the Cutting Block. The IM rod can then be passed through the Monorail to check alignment with the distal tibia. Once the desired position is achieved, fix the Block using pins in one or more oblique pin holes. Headed pins may be used as necessary. Make the resection.



LIGAMENT BALANCING

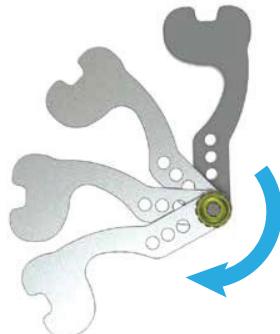
The ligament tension may be checked after the tibial and distal femoral resections have been performed. The World Knee Ultralight instrument kit includes a Ligament Balancing Block that may check the extension and flexion gaps for tension and alignment.



The Ligament Balancing Block base thickness is 19mm thick which is the combined height of the minimum All Poly thickness of 10mm, and the femoral condyle thickness of 9mm. The instrument also includes additional shims so that thicknesses of 12mm, 14mm and 16mm may also be simulated.



The lock knob in the instrument may be used to fix the position of the shims if desired.



The Balancing Block also has provision for the IM Rod to be placed into the handle of the Block to confirm alignment of the resection with the distal tibia.



TIBIAL PREPARATION

The World Knee All Poly Tibia contains several design features that allow for a simplified and multi-purpose instrument set. The Baseplate and shim system, coupled with the Monorail, allows for an adaptable and accurate construct for trialing. The Monorail can, across all sizes, replicate the PS post position and AP condyle position within 1mm while reducing the number of instruments required to an unprecedented minimum.



TECHNIQUE

To size the tibia, select the Tibial Baseplate of the appropriate size and place it onto the resected tibia. The Baseplate should provide maximum coverage to the cortical rim, without overhang. The Monorail may be attached to the Baseplate if desired to use as a grip.



With the Baseplate correctly positioned, place the Tibial Keel Punch Tower over the Baseplate and impact the Tower carefully so that the distal spikes of the Tower can gain fixation in the tibia without upsetting the position of the Baseplate.



If the tibial bone is sclerotic, the Tibial Prep Drill may be passed through the Keel Punch Tower to the stop. Impact the Keel Punch through the Keel Punch Tower and Tibial Baseplate until it stops.



TRIALING

The tibia may be trialed using the appropriately sized baseplate and the PS Monotrial to form an assembly. This construct, without any shims, simulates a 10mm thick World Knee All Poly Tibia. To form the assembly, place the Tibial Baseplate onto the tibia and place the Monotrial through the Baseplate and into the prepared keel pocket. Push the Monotrial down by hand until it has fully seated against the Baseplate and tibia. A trial reduction may then be performed.



If a thicker All Poly Tibia is desired, an All Poly Tibial Shim of the desired thickness may be attached to the Monorail and inserted into the construct between the Tibial Baseplate and the Monotrial. Ensure the Shim is fully inserted against the keel and that the Monotrial is fully seated against the shim. Remove the Monorail before performing another trial reduction.



With the Monorail attached to either the Tibial Baseplate or the All Poly Shim, the IM Rod may be placed through the Monorail to check alignment with the distal tibia.



IMPLANTATION

The World Knee All Poly Tibia is a cemented tibia. With the cement applied, the tibial component may be placed by hand into the prepared tibia. Final impaction of the tibial component can be performed by using the D-Pad with the convex surfaces engaged with the condyles of the All Poly Tibia.



PATELLA PREPARATION

Signature Orthopaedics understands that many surgeons prefer not to perform any patella resurfacing during a primary THA unless necessary. As such, the patella instrumentation in the World Knee Ultralight instrument set has been rationalized to promote a freehand resection technique where needed, while still providing some flexibility for drilling and maintaining the ability to clamp the patella in place for cementing.



Patella Sizing		
Part Number	Diameter	Thickness
121-20-8000	28	7
121-20-8100	31	7
121-20-8200	31	10
121-20-8300	34	7
121-20-8400	34	10
121-20-8500	37	10
121-20-8600	39	10

TECHNIQUE

The patella may be everted and resected using any freehand technique of the surgeon's preference. Once the patella resection has been performed, the patella may be sized using the Patella Sizer against the resection to determine patella diameter. Patellae are available in the diameters and thicknesses as shown in the table. Once a size has been chosen, the Sizer may also be used to perform the drilling operation. The PCD of the patella pegs is common across all sizes, so a change in size is possible after drilling.



Press the Sizer against the patella so that the spikes on the back side of the Patella Sizer engage with the bone and provide stability. Using the Drill, drill the three patella lug holes. If a clamp is preferred for the drilling operation, the Patella Clamp may be placed over the patella with the drill guide over the resected patella and clamped into position. Ensure the guide is central to the resection. The lug holes may then be drilled.



TRIALING

The World Knee patella geometry is designed to have a common spherical radius on the articulating surface for all sizes. This enables maximum versatility of the patella across all sizes of femur and optimizes coverage and thickness of the native patella. To this end, the Ultralight kit includes two small size patellae to simulate a 7mm thick patella and a 10mm thick patella. While a small diameter can be trialed, the definitive size of a different diameter but same thickness may be used with the same result.



IMPLANTATION

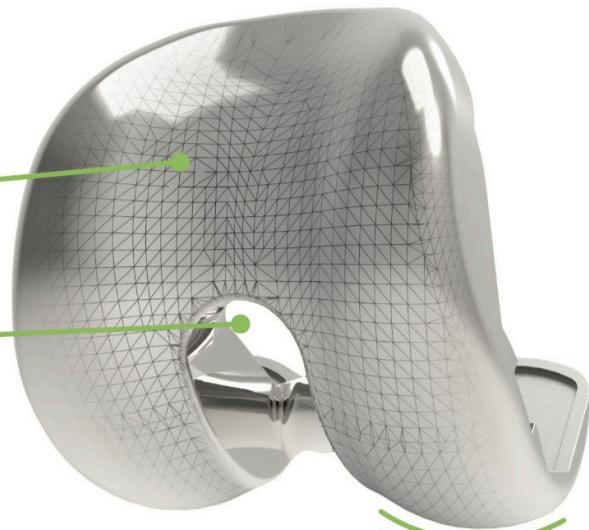
To cement the patella, turn the Patella Clamp over so that the domed side of the clamp is over the definitive patella and with the cemented applied, clamp the patella in place.

FEMUR

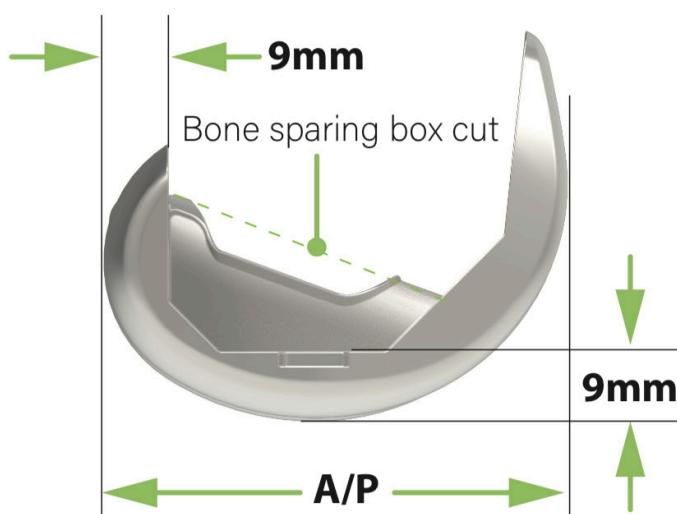
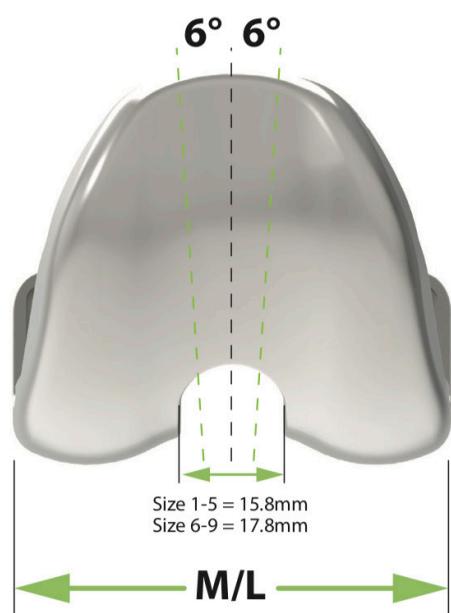
Sizing Progression

Patella friendly tracking

Cylindrical box cut
for simple preparation



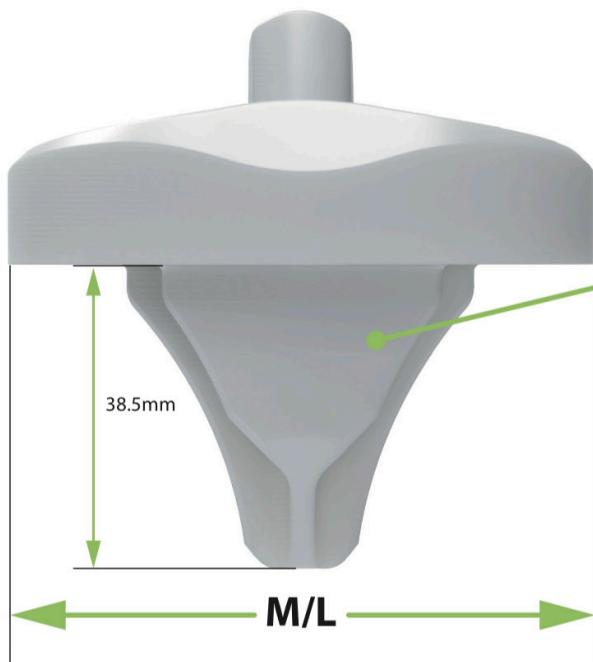
Curve on curve coronal condyle to bearing profile



	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

ALL POLY TIBIA

Sizing



Patella friendly groove



Constant size keel

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

3° posterior slope built in



	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

FEMORAL IMPLANT PART LIST

Part Number	Description	Part Number	Description
121-20-0103	World Knee PS Cemented Symmetrical Femur Size 1	121-20-2103	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0203	World Knee PS Cemented Symmetrical Femur Size 2	121-20-2203	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0303	World Knee PS Cemented Symmetrical Femur Size 3	121-20-2303	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0403	World Knee PS Cemented Symmetrical Femur Size 4	121-20-2403	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0503	World Knee PS Cemented Symmetrical Femur Size 5	121-20-2503	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0603	World Knee PS Cemented Symmetrical Femur Size 6	121-20-2603	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0703	World Knee PS Cemented Symmetrical Femur Size 7	121-20-2703	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0803	World Knee PS Cemented Symmetrical Femur Size 8	121-20-2803	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0903	World Knee PS Cemented Symmetrical Femur Size 9	121-20-2903	World Knee PS Cemented Symmetrical TiNbN Femur
121-20-0113	World Knee CR Cemented Symmetrical Femur Size 1	121-20-2113	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0213	World Knee CR Cemented Symmetrical Femur Size 2	121-20-2213	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0313	World Knee CR Cemented Symmetrical Femur Size 3	121-20-2313	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0413	World Knee CR Cemented Symmetrical Femur Size 4	121-20-2413	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0513	World Knee CR Cemented Symmetrical Femur Size 5	121-20-2513	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0613	World Knee CR Cemented Symmetrical Femur Size 6	121-20-2613	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0713	World Knee CR Cemented Symmetrical Femur Size 7	121-20-2713	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0813	World Knee CR Cemented Symmetrical Femur Size 8	121-20-2813	World Knee CR Cemented Symmetrical TiNbN Femur
121-20-0913	World Knee CR Cemented Symmetrical Femur Size 9	121-20-2913	World Knee CR Cemented Symmetrical TiNbN Femur

Part Number	Description
121-20-9000	World Knee Femoral Peg

Part Number	Description
121-20-2101	World Knee PS Cemented TiNbN Femur Size 1 Left
121-20-2201	World Knee PS Cemented TiNbN Femur Size 2 Left
121-20-2301	World Knee PS Cemented TiNbN Femur Size 3 Left
121-20-2401	World Knee PS Cemented TiNbN Femur Size 4 Left
121-20-2501	World Knee PS Cemented TiNbN Femur Size 5 Left
121-20-2601	World Knee PS Cemented TiNbN Femur Size 6 Left
121-20-2701	World Knee PS Cemented TiNbN Femur Size 7 Left
121-20-2801	World Knee PS Cemented TiNbN Femur Size 8 Left
121-20-2901	World Knee PS Cemented TiNbN Femur Size 9 Left
121-20-2102	World Knee PS Cemented TiNbN Femur Size 1 Right
121-20-2202	World Knee PS Cemented TiNbN Femur Size 2 Right
121-20-2302	World Knee PS Cemented TiNbN Femur Size 3 Right
121-20-2402	World Knee PS Cemented TiNbN Femur Size 4 Right
121-20-2502	World Knee PS Cemented TiNbN Femur Size 5 Right
121-20-2602	World Knee PS Cemented TiNbN Femur Size 6 Right
121-20-2702	World Knee PS Cemented TiNbN Femur Size 7 Right
121-20-2802	World Knee PS Cemented TiNbN Femur Size 8 Right
121-20-2902	World Knee PS Cemented TiNbN Femur Size 9 Right
121-20-2111	World Knee CR Cemented TiNbN Femur Size 1 Left
121-20-2211	World Knee CR Cemented TiNbN Femur Size 2 Left
121-20-2311	World Knee CR Cemented TiNbN Femur Size 3 Left
121-20-2411	World Knee CR Cemented TiNbN Femur Size 4 Left
121-20-2511	World Knee CR Cemented TiNbN Femur Size 5 Left
121-20-2611	World Knee CR Cemented TiNbN Femur Size 6 Left
121-20-2711	World Knee CR Cemented TiNbN Femur Size 7 Left
121-20-2811	World Knee CR Cemented TiNbN Femur Size 8 Left
121-20-2911	World Knee CR Cemented TiNbN Femur Size 9 Left
121-20-2112	World Knee CR Cemented TiNbN Femur Size 1 Right
121-20-2212	World Knee CR Cemented TiNbN Femur Size 2 Right
121-20-2312	World Knee CR Cemented TiNbN Femur Size 3 Right
121-20-2412	World Knee CR Cemented TiNbN Femur Size 4 Right
121-20-2512	World Knee CR Cemented TiNbN Femur Size 5 Right
121-20-2612	World Knee CR Cemented TiNbN Femur Size 6 Right
121-20-2712	World Knee CR Cemented TiNbN Femur Size 7 Right
121-20-2812	World Knee CR Cemented TiNbN Femur Size 8 Right
121-20-2912	World Knee CR Cemented TiNbN Femur Size 9 Right

PATELLA IMPLANT PART LIST

Part Number	Description
121-20-8000	World Knee Spherical Patella 28x7
121-20-8100	World Knee Spherical Patella 31x7
121-20-8200	World Knee Spherical Patella 31x10
121-20-8300	World Knee Spherical Patella 34x7
121-20-8400	World Knee Spherical Patella 34x10
121-20-8500	World Knee Spherical Patella 37x10
121-20-8600	World Knee Spherical Patella 39x10
121-20-8010	World Knee Asymmetrical Patella 28x35
121-20-8210	World Knee Asymmetrical Patella 31x37
121-20-8410	World Knee Asymmetrical Patella 34x40
121-20-8510	World Knee Asymmetrical Patella 37x43
121-20-8610	World Knee Asymmetrical Patella 39x44

TIBIA IMPLANT PART LIST

Part Number	Description	Part Number	Description
121-20-4110	World Knee Cemented Titanium Tibial Plate Size 1	121-20-6100	World Knee PS All Poly Tibia Size 1 – 10mm
121-20-4210	World Knee Cemented Titanium Tibial Plate Size 2	121-20-6102	World Knee PS All Poly Tibia Size 1 – 12mm
121-20-4310	World Knee Cemented Titanium Tibial Plate Size 3	121-20-6104	World Knee PS All Poly Tibia Size 1 – 14mm
121-20-4410	World Knee Cemented Titanium Tibial Plate Size 4	121-20-6106	World Knee PS All Poly Tibia Size 1 – 16mm
121-20-4510	World Knee Cemented Titanium Tibial Plate Size 5	121-20-6200	World Knee PS All Poly Tibia Size 2 – 10mm
121-20-4610	World Knee Cemented Titanium Tibial Plate Size 6	121-20-6202	World Knee PS All Poly Tibia Size 2 – 12mm
121-20-4710	World Knee Cemented Titanium Tibial Plate Size 7	121-20-6204	World Knee PS All Poly Tibia Size 2 – 14mm
121-20-4810	World Knee Cemented Titanium Tibial Plate Size 8	121-20-6206	World Knee PS All Poly Tibia Size 2 – 16mm
121-20-4910	World Knee Cemented Titanium Tibial Plate Size 9	121-20-6300	World Knee PS All Poly Tibia Size 3 – 10mm
121-20-5110	World Knee Cementless Titanium Tibial Plate Size 1	121-20-6302	World Knee PS All Poly Tibia Size 3 – 12mm
121-20-5210	World Knee Cementless Titanium Tibial Plate Size 2	121-20-6304	World Knee PS All Poly Tibia Size 3 – 14mm
121-20-5310	World Knee Cementless Titanium Tibial Plate Size 3	121-20-6306	World Knee PS All Poly Tibia Size 3 – 16mm
121-20-5410	World Knee Cementless Titanium Tibial Plate Size 4	121-20-6400	World Knee PS All Poly Tibia Size 4 – 10mm
121-20-5510	World Knee Cementless Titanium Tibial Plate Size 5	121-20-6402	World Knee PS All Poly Tibia Size 4 – 12mm
121-20-5610	World Knee Cementless Titanium Tibial Plate Size 6	121-20-6404	World Knee PS All Poly Tibia Size 4 – 14mm
121-20-5710	World Knee Cementless Titanium Tibial Plate Size 7	121-20-6406	World Knee PS All Poly Tibia Size 4 – 16mm
121-20-5810	World Knee Cementless Titanium Tibial Plate Size 8	121-20-6500	World Knee PS All Poly Tibia Size 5 – 10mm
121-20-5910	World Knee Cementless Titanium Tibial Plate Size 9	121-20-6502	World Knee PS All Poly Tibia Size 5 – 12mm
		121-20-6504	World Knee PS All Poly Tibia Size 5 – 14mm
		121-20-6506	World Knee PS All Poly Tibia Size 5 – 16mm
		121-20-6600	World Knee PS All Poly Tibia Size 6 – 10mm
		121-20-6602	World Knee PS All Poly Tibia Size 6 – 12mm
		121-20-6604	World Knee PS All Poly Tibia Size 6 – 14mm
		121-20-6606	World Knee PS All Poly Tibia Size 6 – 16mm
		121-20-6700	World Knee PS All Poly Tibia Size 7 – 10mm
		121-20-6702	World Knee PS All Poly Tibia Size 7 – 12mm
		121-20-6704	World Knee PS All Poly Tibia Size 7 – 14mm
		121-20-6706	World Knee PS All Poly Tibia Size 7 – 16mm
		121-20-6800	World Knee PS All Poly Tibia Size 8 – 10mm
		121-20-6802	World Knee PS All Poly Tibia Size 8 – 12mm
		121-20-6804	World Knee PS All Poly Tibia Size 8 – 14mm
		121-20-6806	World Knee PS All Poly Tibia Size 8 – 16mm
		121-20-6900	World Knee PS All Poly Tibia Size 9 – 10mm
		121-20-6902	World Knee PS All Poly Tibia Size 9 – 12mm
		121-20-6904	World Knee PS All Poly Tibia Size 9 – 14mm
		121-20-6906	World Knee PS All Poly Tibia Size 9 – 16mm

POLY INSERT IMPLANT PART LIST

INSTRUMENT PART LIST

Description	Product Code	Device Specific	Class
The Monorail	HWT	N	I
TDF Cutting Block	HWT	N	I
Fixed Handle IM Rod	LXH	N	I
Tibial Alignment Rod	HWT	N	I
Tibial alignment sleeve	HWT	N	I
Ankle Clamp	HXD	N	I
Ankle Clamp Strap	HXD	N	I
Alignment IM Sleeve	LXH	N	I
Fixed Distal Varus Guide	HWT	N	I
Distal Adjustment Not Found	HWT	N	I
Fixed Resection Tibial Stylus	LXH	N	I
Fixed Ankle Clamp	HXD	N	I
Suzy Holemaker	LXH	N	I
D-Pad Impactor	FZY	N	I
Ligament Balancing Block	HWT	N	I
Block Pusher	HXO	N	I
Threaded Drill	HTW	N	I
Straight Pin	LXH	N	I



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