

U2™ Knee

Total Knee System



U2 Knee AiO & U2 Knee MDT
Surgical Technique Guide

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Device Description

Comprehensive Total Knee System –

The U2 Knee system is a comprehensive and organized total knee system for restoring the knee function throughout a full range of motion.

Based on the anatomy, kinematics, biomechanics, engineering and material technologies, the U2 Knee system offers fixed bearing, mobile bearing and revision prosthesis to satisfy different demands.

Since the launch of the U2 Knee System in 2005, over 170,000 cases have been implanted in 40 countries worldwide.

The U2 Knee has demonstrated excellent long-term clinical outcomes. The survival rate is 97.7% at 10 years follow up^[1].

United strives to create a more efficient and precise experience for utilization with orthopedic implants and instruments that are designed to relieve pain and improve knee function in patients.

INDICATIONS

The U2 Total Knee system is indicated in knee arthroplasty for reduction or relief of pain and/or improved knee function in skeletally mature patients with severe knee pain and disability due to rheumatoid arthritis, osteoarthritis, primary and secondary traumatic arthritis, polyarthritis, collagen disorders, avascular necrosis of the femoral condyle or pseudogout, posttraumatic loss of joint configuration, particularly when there is patellofemoral erosion, dysfunction or prior patellectomy, moderate valgus, varus, or flexion deformities. This device may also be indicated in the salvage of previously failed surgical attempts if the knee cannot be satisfactorily balanced and stabilized at the time of surgery.

The device includes Cruciate Retained (CR) type, Posterior Stabilized (PS) type and Ultracongruent (UC) type. CR and UC types are designed to collocate with CR femoral component, while PS type is designed to collocate with PS femoral component.

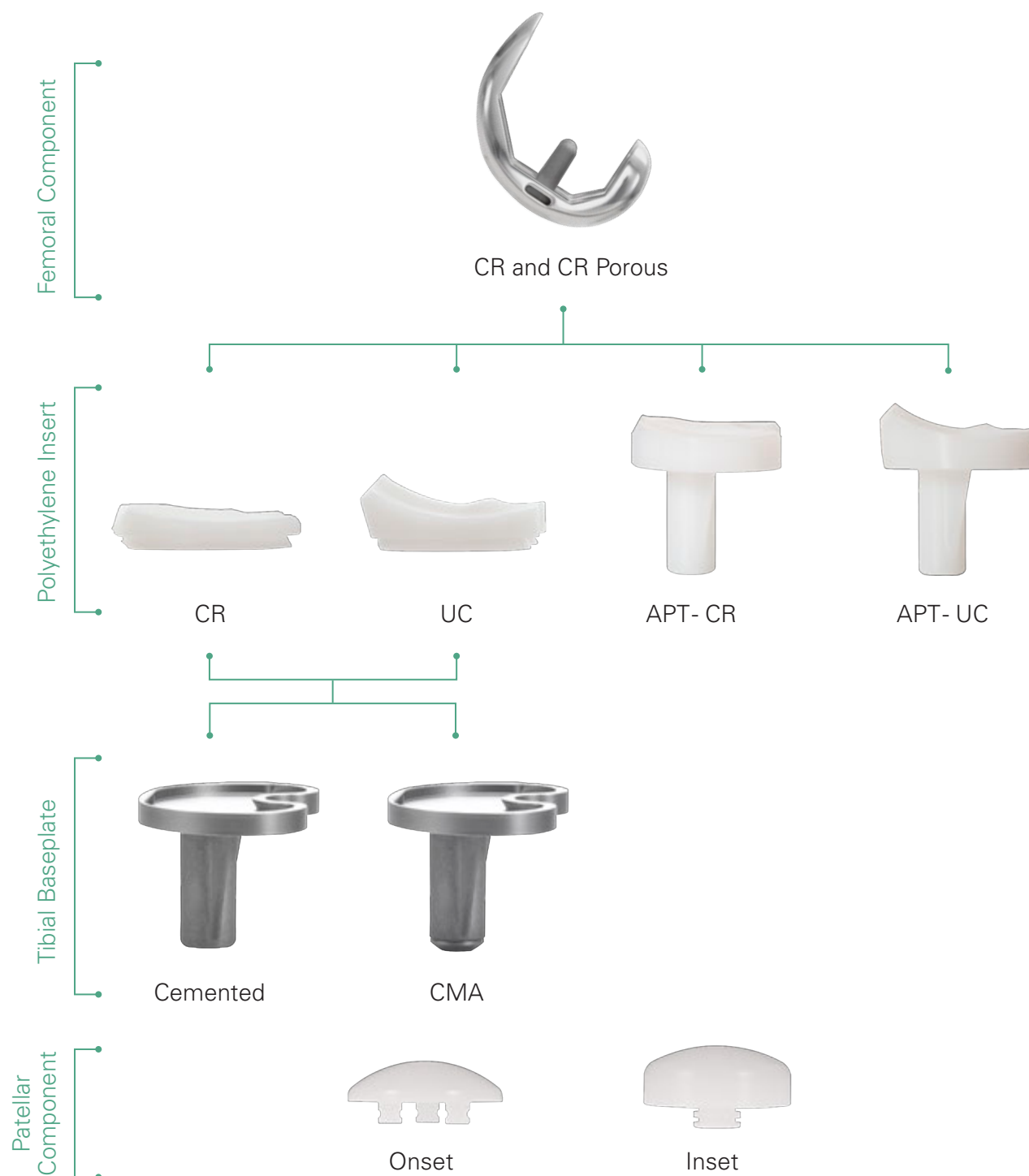
- For cemented type femoral components, patellar components, tibial baseplate components, tibial inserts components and all poly tibial component: This device is a single use implant and intended for cemented use only.
- For cementless type component and porous coated femoral component: This device is a single use implant and intended for cementless use only.

Please refer to the package inserts for important product information, including, but not limited to contraindications, warnings, precautions, and adverse effects.

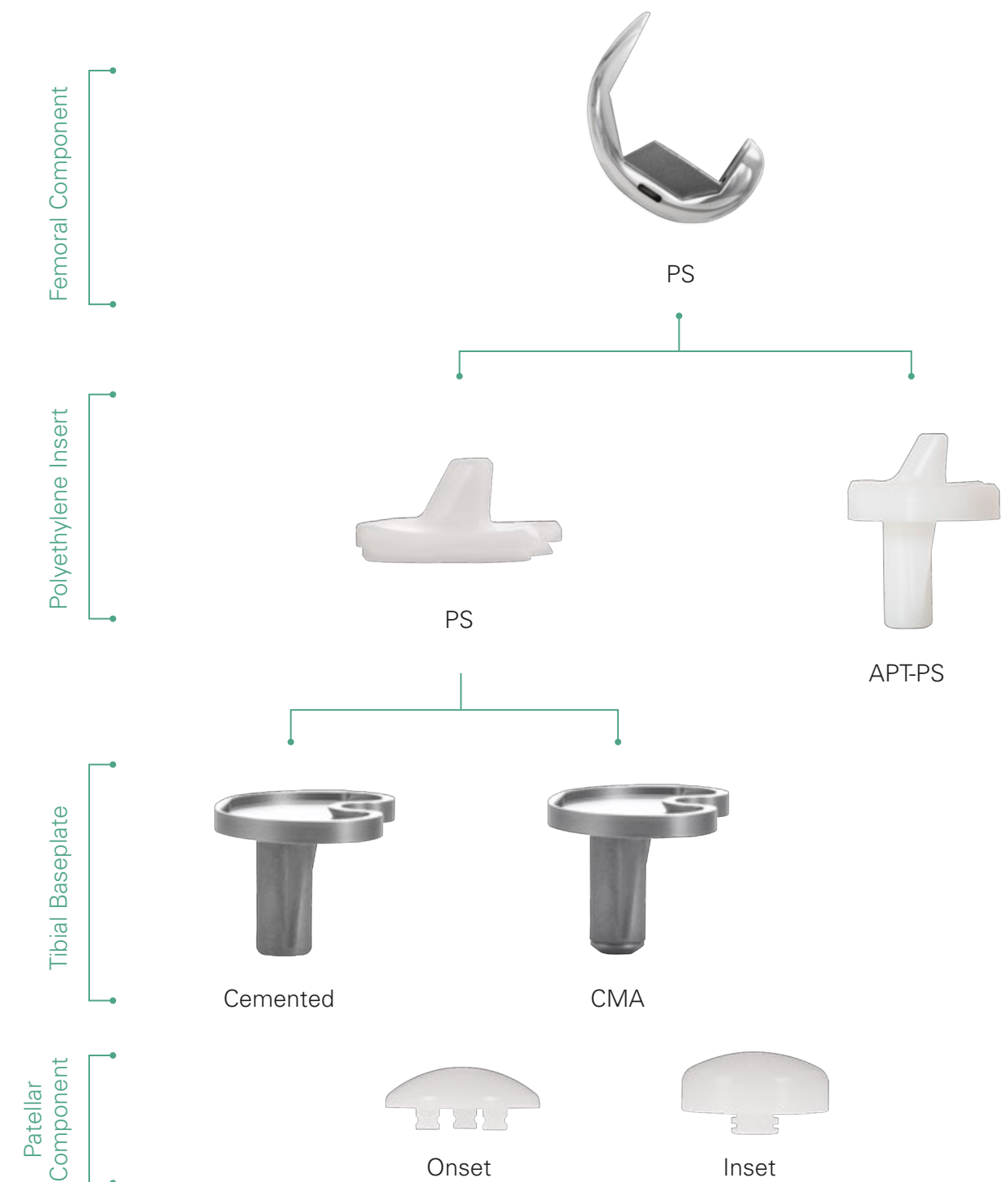


U2 Knee System Overview

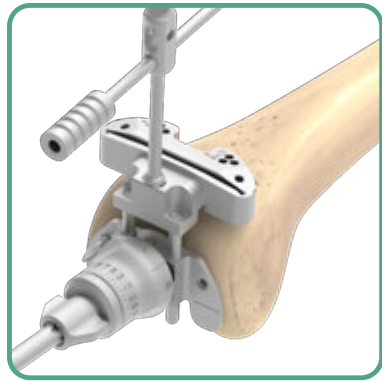
Cruciate Retaining (CR)



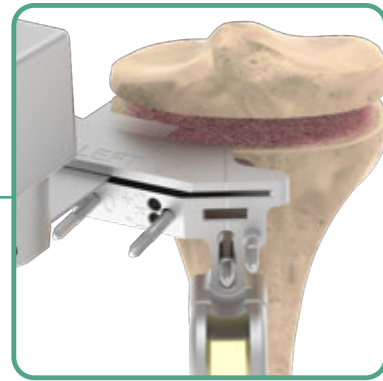
Posterior Stabilized (PS)



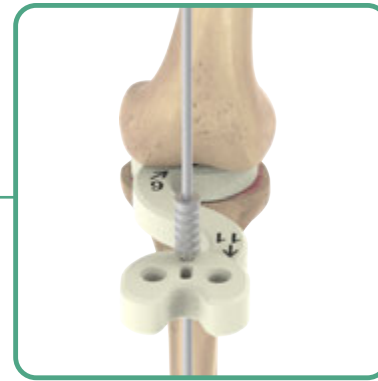
Surgical Overview



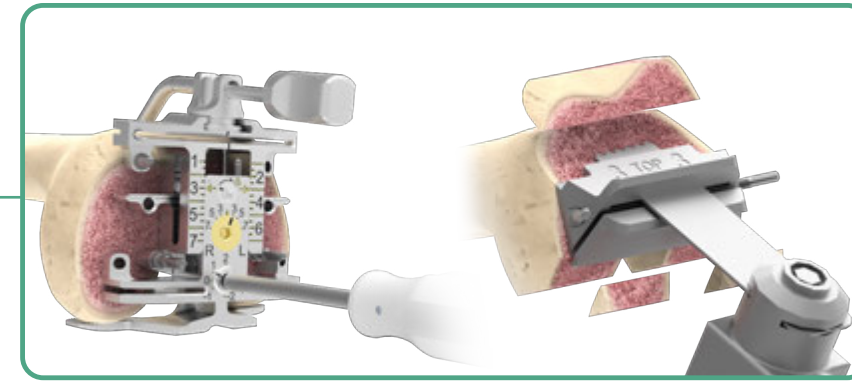
A. Distal Femoral Resection



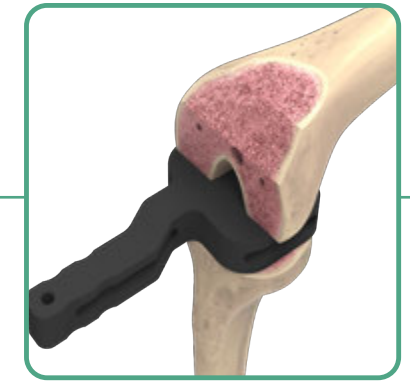
B. Proximal Tibial Resection



C. Extension Gap Assessment



D. Femoral Sizing and Chamfer Resection



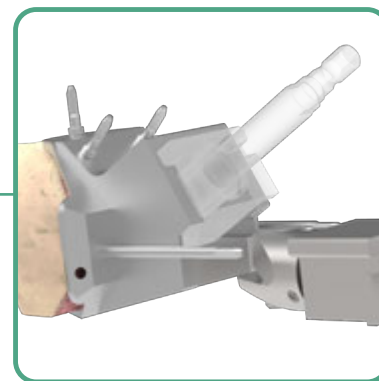
E. Extension and Flexion Gaps Confirmation



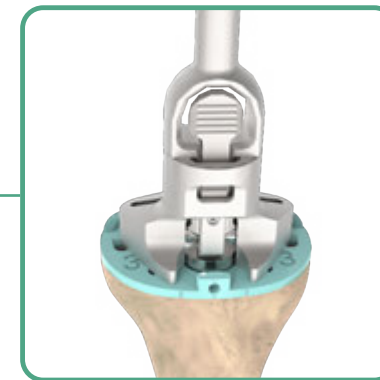
F. Trial Reduction



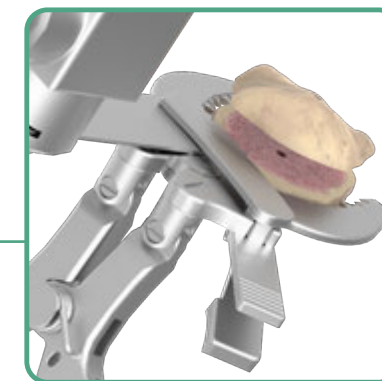
G. CR Peg Preparation



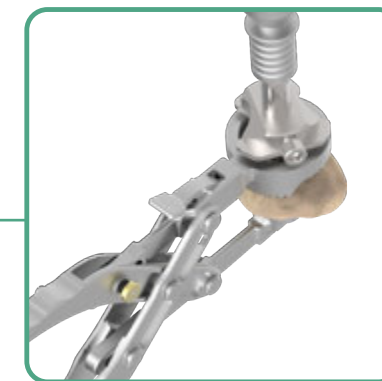
H. PS Box Preparation



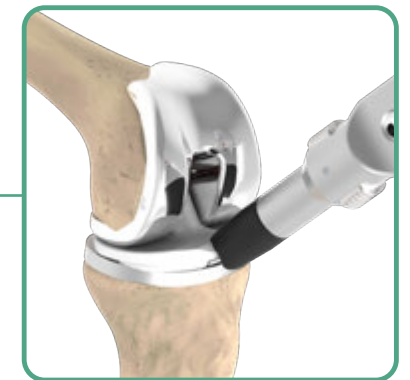
I. Proximal Tibial Preparation



J. Onset Patellar Preparation

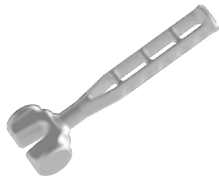


K. Inset Patellar Preparation



L. Implantation

Pin Guide

Pin	Item	Quantity	Main Function	Compatible Driver
	Threaded Pin, 30 mm	6	Used to secure resection guides against bone.	
	Threaded Pin, 50 mm	4		
	Round Pin, 75 mm	4	Designed for positioning & repositioning cutting blocks. Pre-drill with 3.2 mm Drill before insertion and remove with Pin Extractor .	 
	Head Pin, 33 mm	4	Used to secure trial components. Can be inserted and removed by using the Headed Pin Impactor / Extractor along with the Slotted Hammer .	 

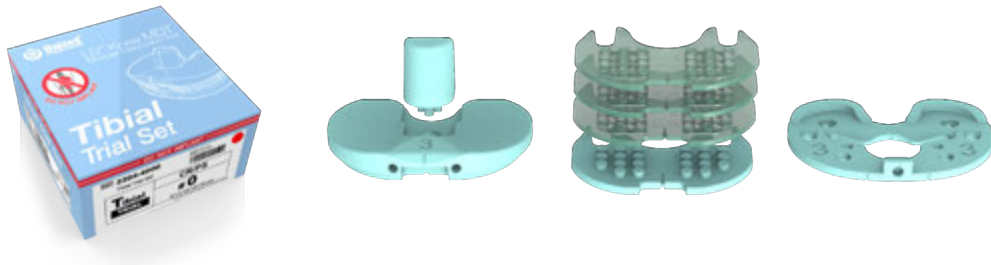
Trial Instrument Compatibility

Modular Disposable Trials (MDT)

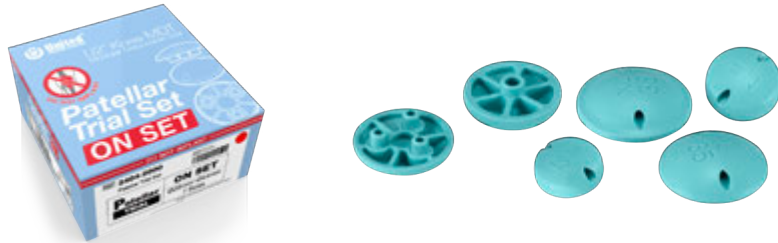
Femoral Trial Set (CR/PS) is comprised of 7 standard sizes plus 6 intermediate sizes, for a total of 13 femoral component selections. Each sterile package includes a CR notch trial & PS box trial to convert the femoral trial component from a CR to a PS design. A disposable PS Notch Cutting Guide is also included.



Tibial Trial Sets (CR/PS or UC) are comprised of 7 sizes of tibial baseplate trials and all thickness selections of inserts. Each sterile package includes the selected tibial baseplate trial, a standard 9 mm articulating surface trial, three 2 mm spacers, and one 3 mm spacer. An additional PS post trial that allows the CR insert trial to be converted to an PS insert trial.



Patellar Trial Set (onset or inset) includes all size selections of onset or inset patellar trials.



Reusable Trials

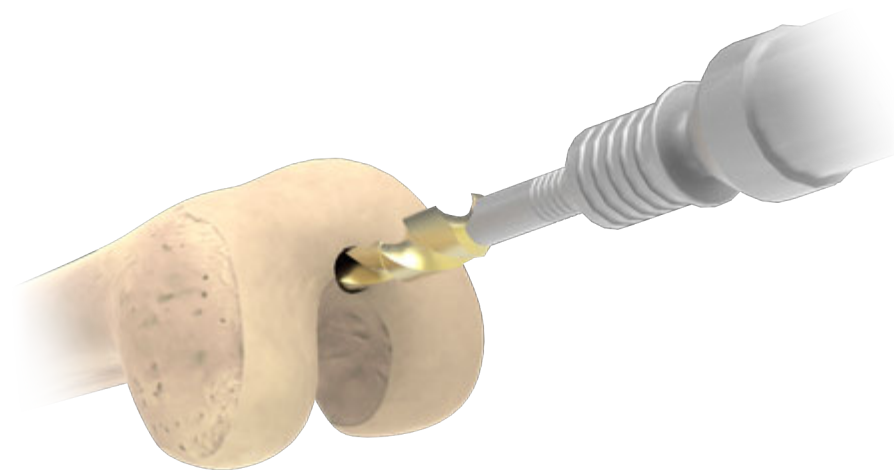
- 13 sizes of femoral component trials in both CR and PS designs
- 8 sizes of tibial baseplate trials
- 8 sizes x 5 thickness of insert trials in CR, PS and UC articulating designs
- 4 sizes of inset patellar trials
- 7 sizes of onset patellar trials

A. Distal Femoral Resection

Access Canal

With the ACL removed, the location of the typical femoral entry hole is deemed to be slightly medial to the center of the intercondylar notch, and approximately 5 to 7 mm anterior to the insertion of the PCL.

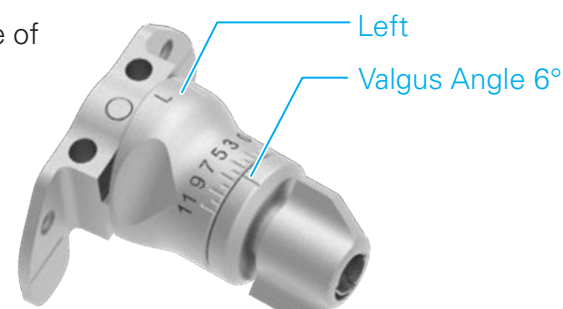
Use the **Step Drill** to create an opening into the femoral canal. This allows for depressurization of the canal when the **IM Rod** is inserted.



Set Femoral Valgus Angle

Use the **Femoral IM Alignment Guide** to set the angle of the distal femoral resection. Set the alignment guide for either a Left or Right Knee using the provided adjustment switch.

The guide allows up to 11° of valgus angle adjustment. The ideal angle should be determined according to pre-operative planning.



Instruments



Step Drill



IM Rod

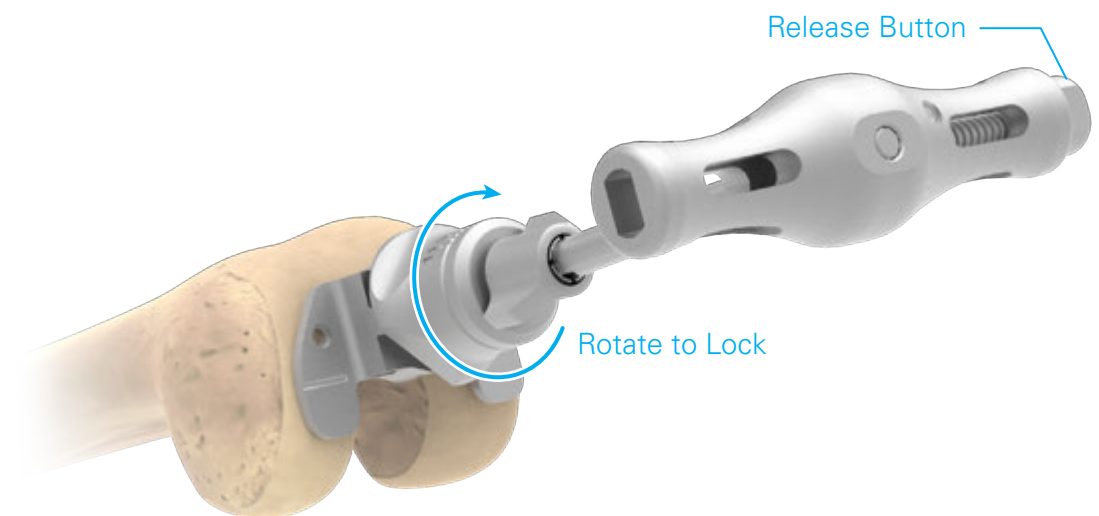


Femoral IM Alignment Guide

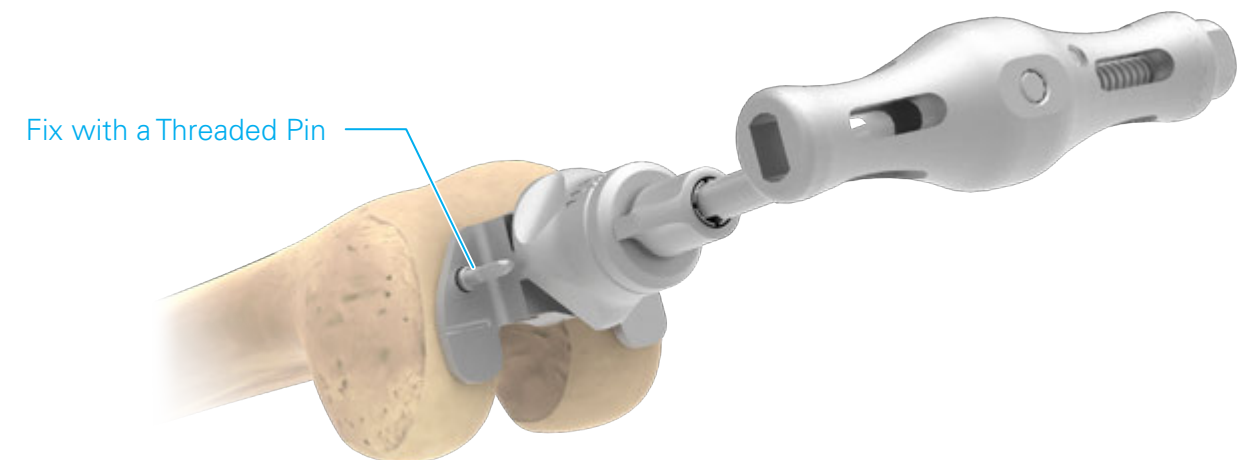
A. Distal Femoral Resection

Assemble the **IM Rod Handle**, **IM Rod**, and **Femoral IM Alignment Guide**, and manually insert past the isthmus of the femoral canal.

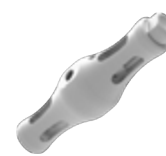
Rotate the locking knob at the end of alignment guide to secure the alignment guide to the **IM Rod**. If necessary, rotate the valgus angle dial for further adjustment.



When the alignment guide is properly engaged with the distal femur, use a **Threaded Pin** to secure the assembly.



Instruments



IM Rod Handle



IM Rod



Femoral IM Alignment Guide

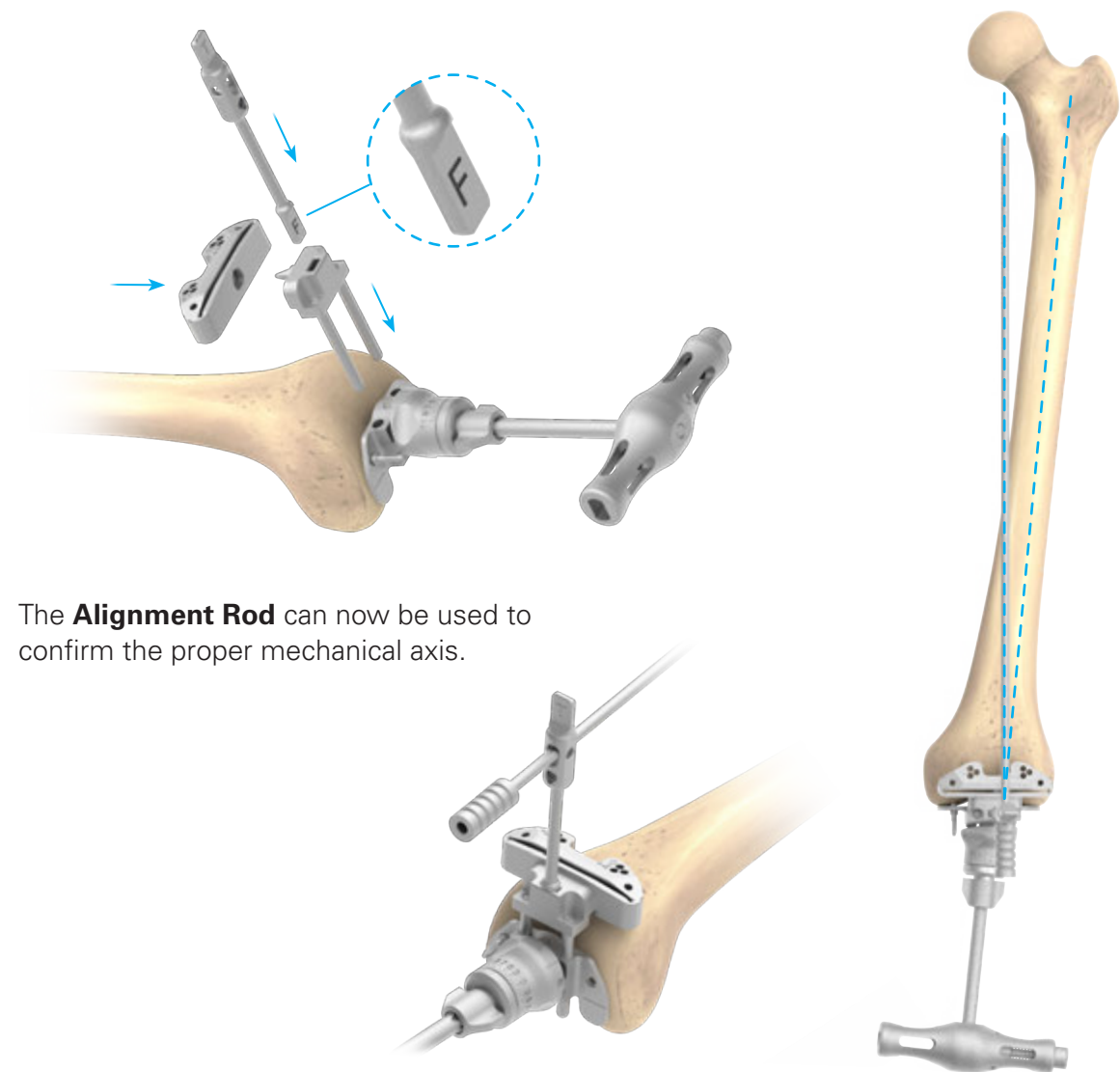
Threaded Pin
30 mm/50 mm

A. Distal Femoral Resection

Distal Femoral Resection

Assemble the **Distal Femoral Alignment Guide** and the **Distal Femoral Resection Guide** to the **Femoral IM Alignment Guide**.

Insert the "F" end (Femur) of the **EM Alignment Tower** into the **Distal Femoral Alignment Guide** as shown.



The **Alignment Rod** can now be used to confirm the proper mechanical axis.

Instruments



Distal Femoral Alignment Guide



Distal Femoral Resection Guide



EM Alignment Tower



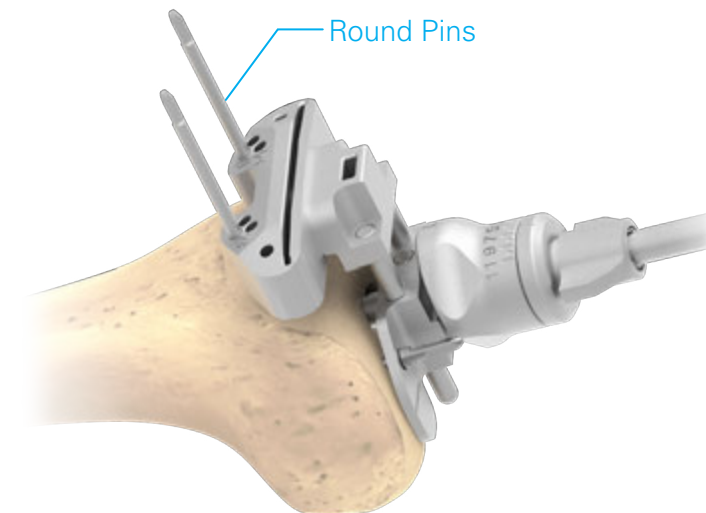
Alignment Rod



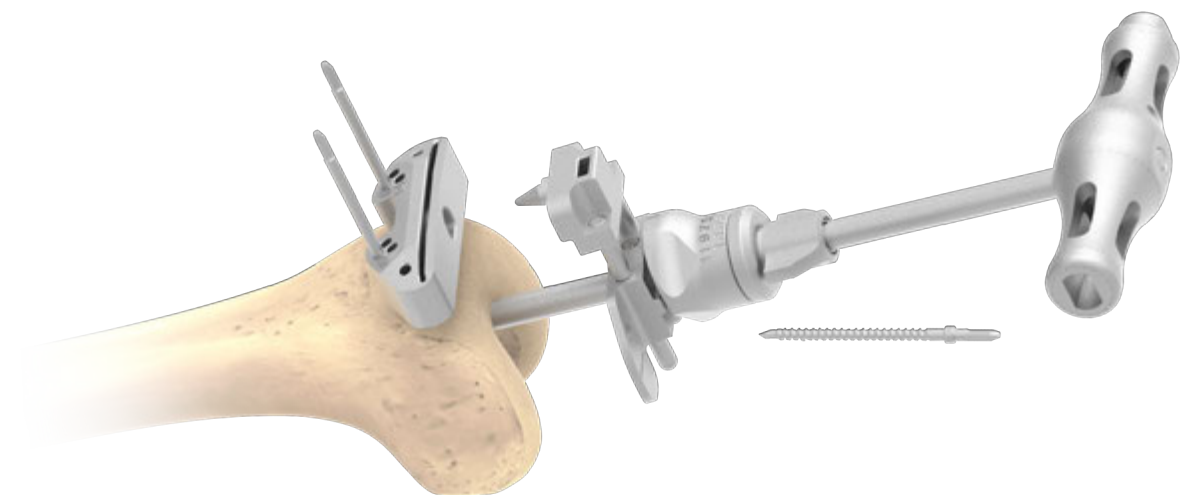
Femoral IM Alignment Guide

A. Distal Femoral Resection

Drill pilot holes through the "0" pin holes on the anterior surface of the **Distal Femoral Resection Guide**, and insert a pair of **Round Pins** to secure the resection guide.



Remove the **Threaded Pin** on the **Femoral IM Alignment Guide**. Disengage the **Distal Femoral Resection Guide** by pulling the **IM Rod Handle** distally.



Instruments



3.2 mm Drill



Round Pin



Threaded Pin
30 mm/50 mm



Femoral IM Alignment Guide



Distal Femoral Resection Guide



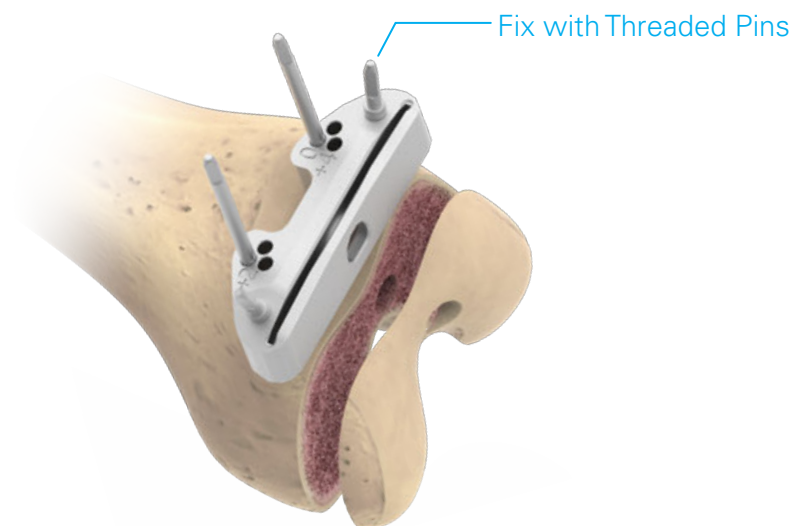
IM Rod Handle

A. Distal Femoral Resection

+2 mm/+4 mm guide holes are provided to allow for repositioning of the **Distal Femoral Resection Guide**.



Before performing the distal femur resection, additional **Threaded Pins** may be placed to further secure the resection guide. Then, use a standard .050" (1.27 mm) saw blade through the cutting slot to resect the distal femur.



Instruments



Distal Femoral Resection Guide



Round Pin



Threaded Pin
30 mm/50 mm

B. Proximal Tibial Resection

Tibial Extramedullary Alignment Method

Attach the selected **Tibial Resection Guide** to the **Tibial EM Alignment Guide**.



Instruments



Tibial Resection Guide

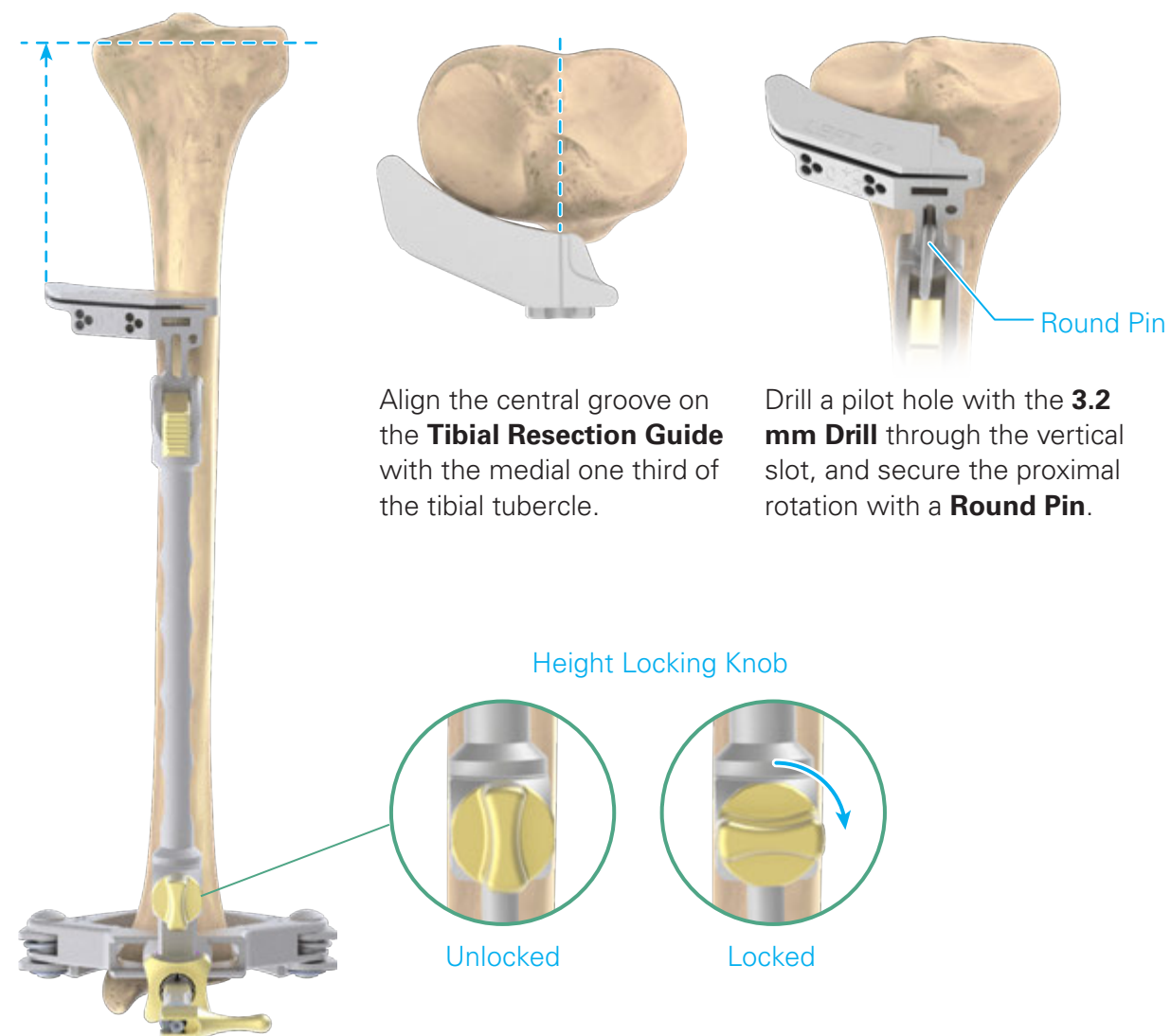


Tibial EM Alignment Guide

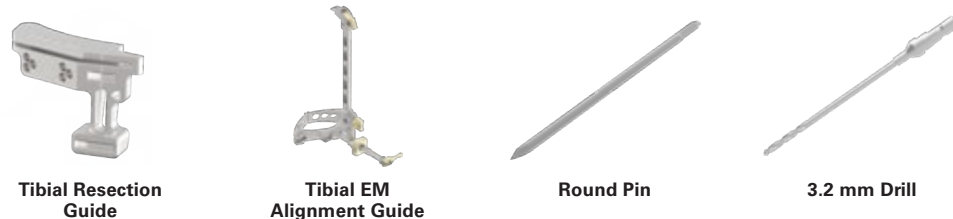
B. Proximal Tibial Resection

Place the knee in 90° flexion. Secure the clamps on the distal portion of the **Tibial EM Alignment Guide** around the ankle joint, proximal to the malleoli.

Rotate the height locking knob to the unlock position, and adjust the **Tibial EM Alignment Guide** to the approximate length of the tibia.



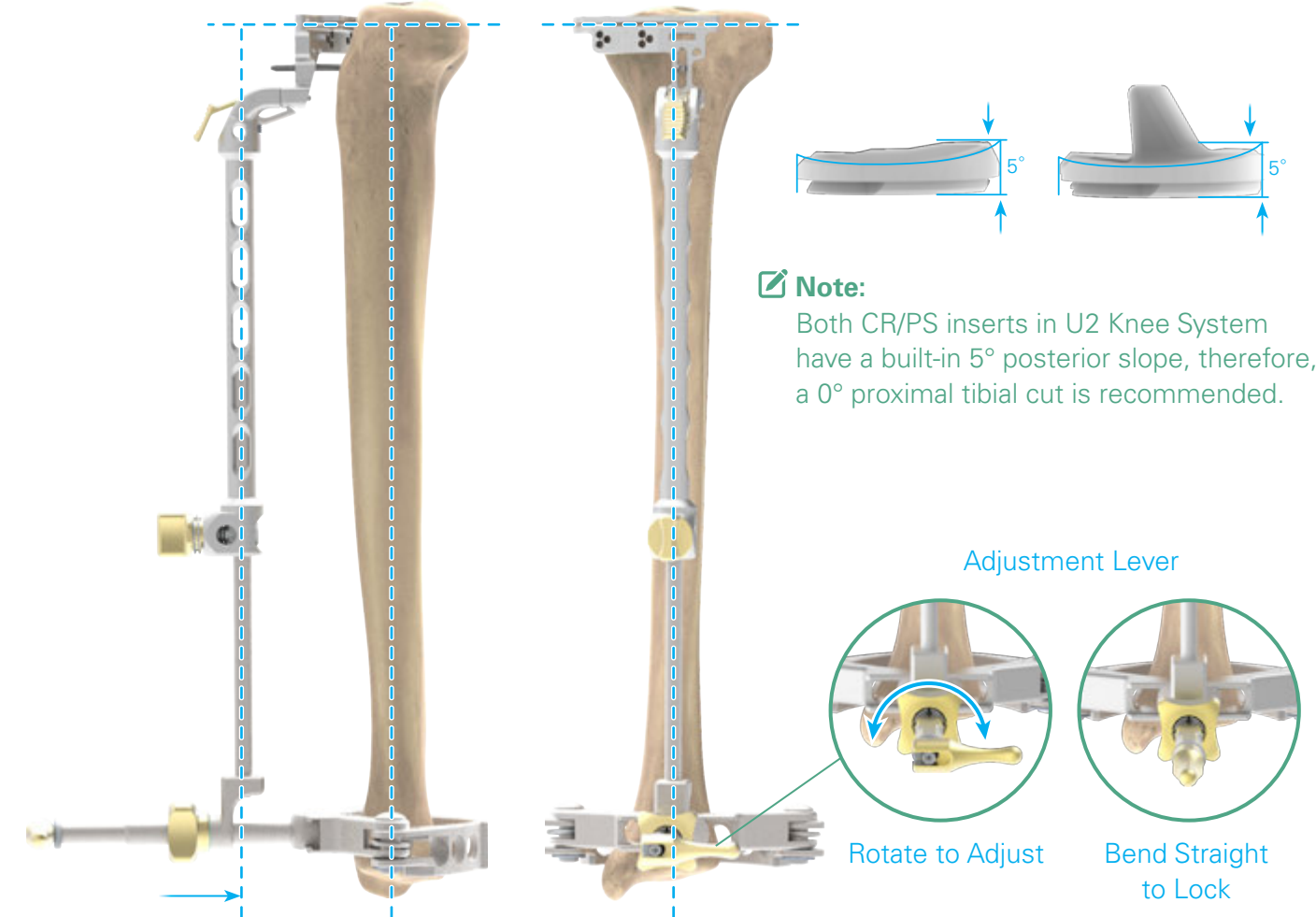
Instruments



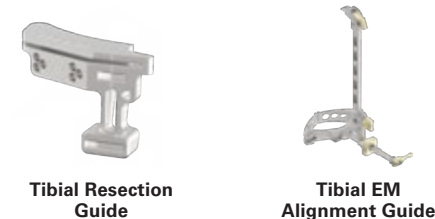
B. Proximal Tibial Resection

Slide the A/P Locking Knob and adjust the **Tibial EM Alignment Guide** by moving it towards or away from the tibia until it is parallel to the tibial axis from a sagittal view.

Rotate the adjustment lever clockwise or counterclockwise adjusting the varus/valgus orientation until it is parallel to the tibial axis from a coronal view. Then rotate the knob of the adjustment lever to the lock position (straight) to secure the **Tibial EM Alignment Guide** in the correct position.



Instruments

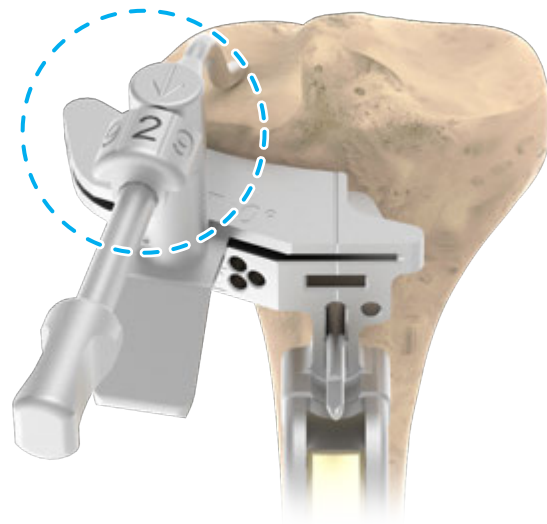


B. Proximal Tibial Resection

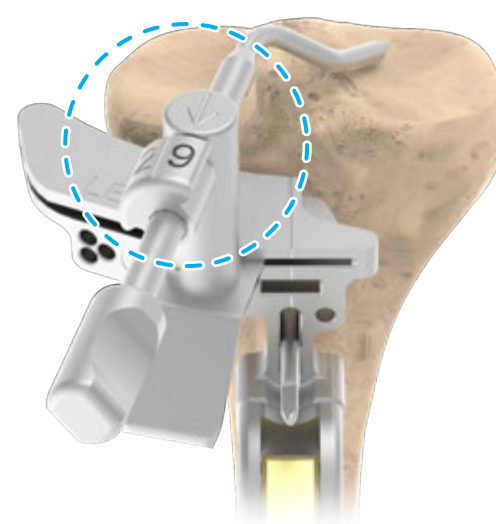
To determine the desired tibial resection level, insert the **Tibial Stylus** into the cutting slot and position the tip of the stylus onto the appropriate location on the tibial plateau.

The handle of the **Tibial Stylus** may be **rotated** in order to determine whether a 2 mm or 9 mm resection below the stylus tip is appropriate.

Once the desired resection level has been determined, prior to removing the stylus, rotate the height locking knob to secure the desired height.



The 2 mm stylus tip is used for minimal resection from the most affected tibial condyle



The 9 mm stylus tip is used for a 9 mm tibial bone cut from the least affected condyle.

Instruments



Tibial Stylus



Tibial Resection Guide



Tibial EM Alignment Guide

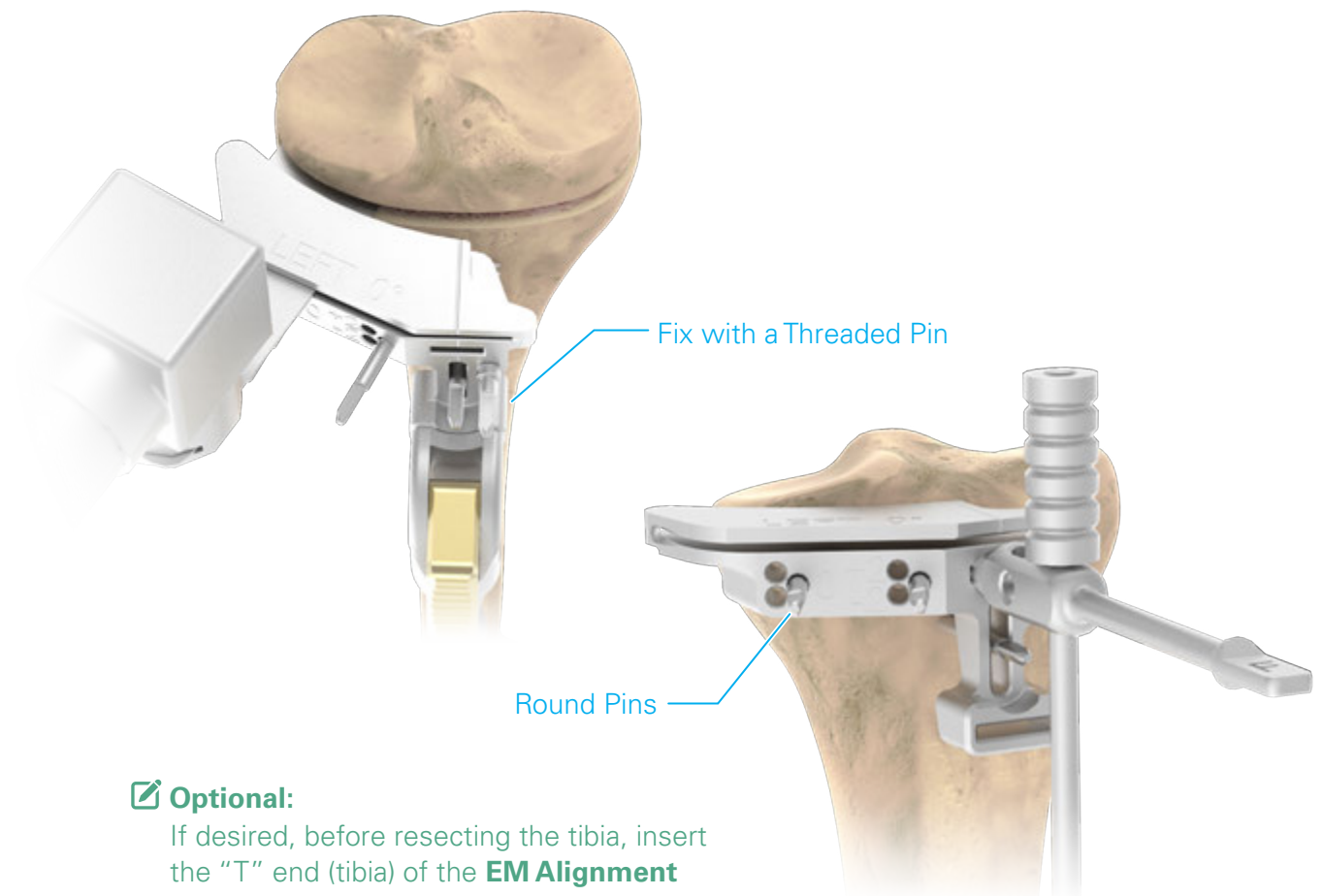
B. Proximal Tibial Resection

Remove the stylus.

Drill pilot holes with the **3.2 mm Drill** into the pin holes marked "0" on the anterior surface of the resection guide, and place two **Round Pins** to secure the **Tibial Resection Guide**.

Additional **Threaded Pins** may be placed through the angled hole for better fixation.

The proximal tibia may then be resected with or without the **Tibial EM Alignment Guide** in place.



Optional:

If desired, before resecting the tibia, insert the "T" end (tibia) of the **EM Alignment Tower** into the resection guide and use the **Alignment Rod** to re-check the alignment.

Instruments



Tibial Resection Guide



Round Pin



Threaded Pin
30 mm/50 mm



Tibial EM Alignment Guide



EM Alignment Tower

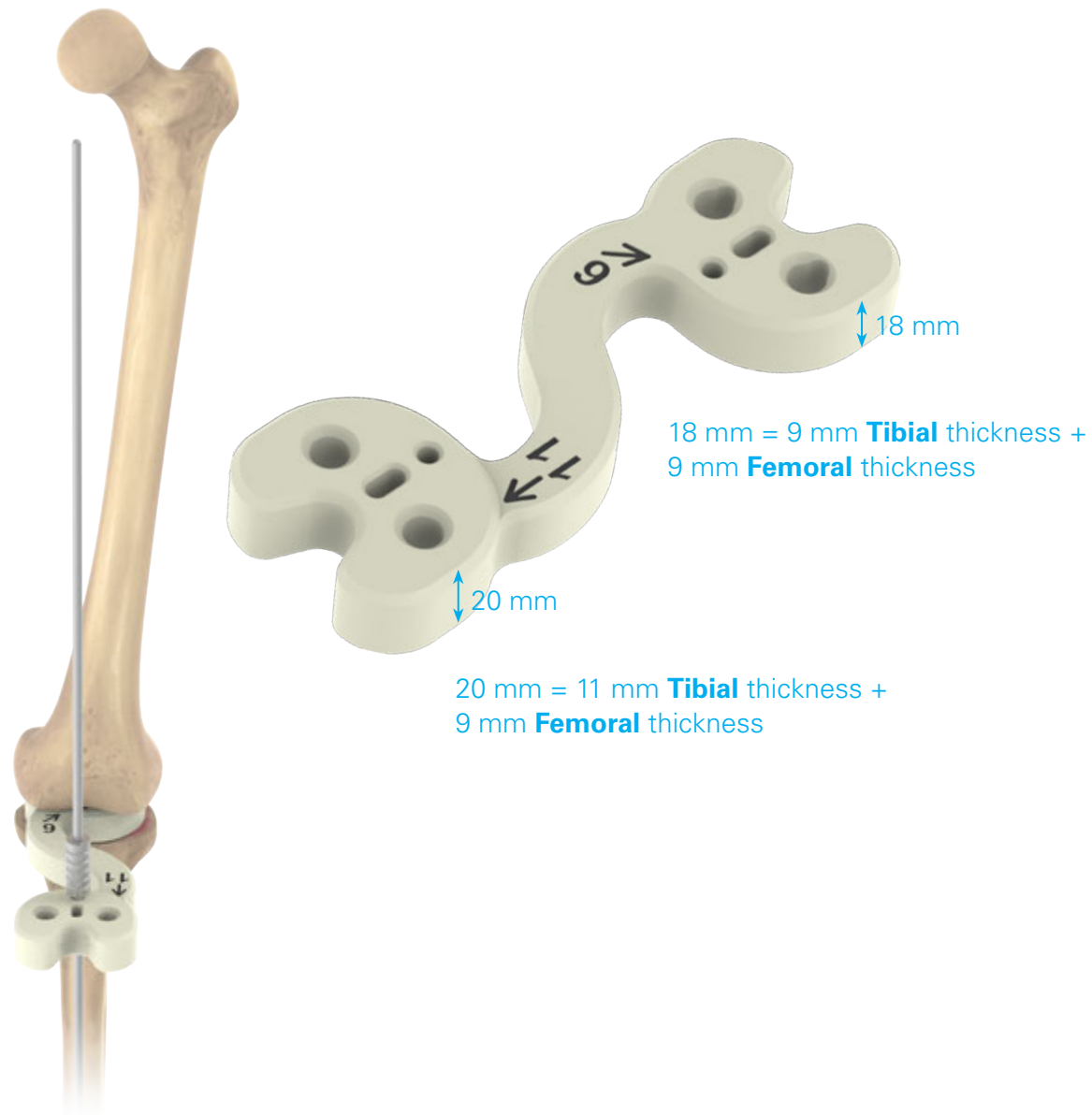


Alignment Rod

C.Extension Gap Assessment

Remove any osteophytes, meniscus or other soft tissue as needed to properly complete assessment.

Extend the knee and insert the appropriate end of the **Gap Gauge** to verify the extension gap of the knee. The **Alignment Rod** may be utilized to evaluate bone resection.



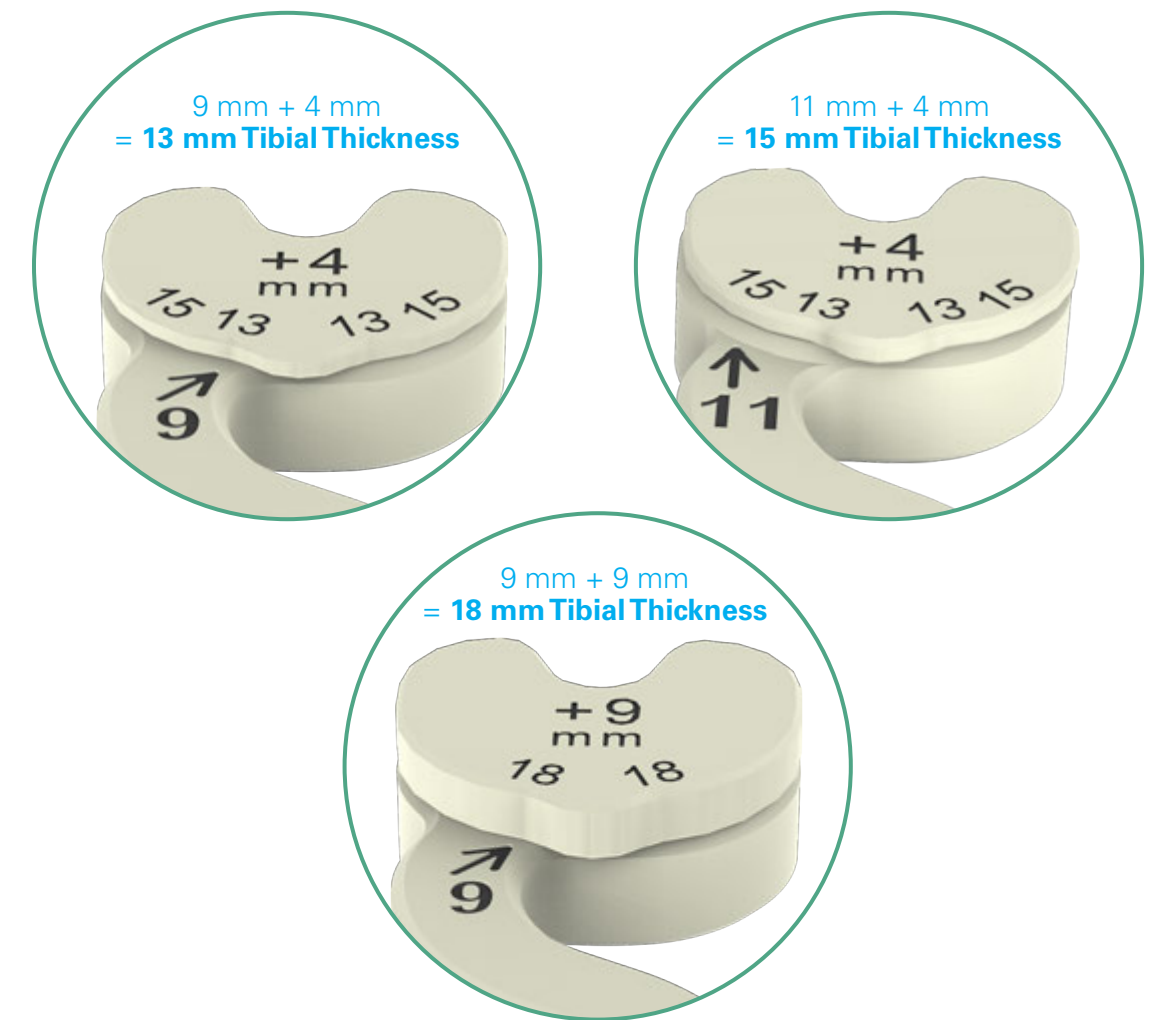
Instruments

Gap Gauge
9/11 mm

Alignment Rod

C.Extension Gap Assessment

Additional +4 mm or +9 mm blocks may be combined with the **Gap Gauge** to evaluate the extension gap utilizing appropriate tension.



The same **Gap Gauge** can also be used to evaluate the flexion gap after femoral A/P resection.

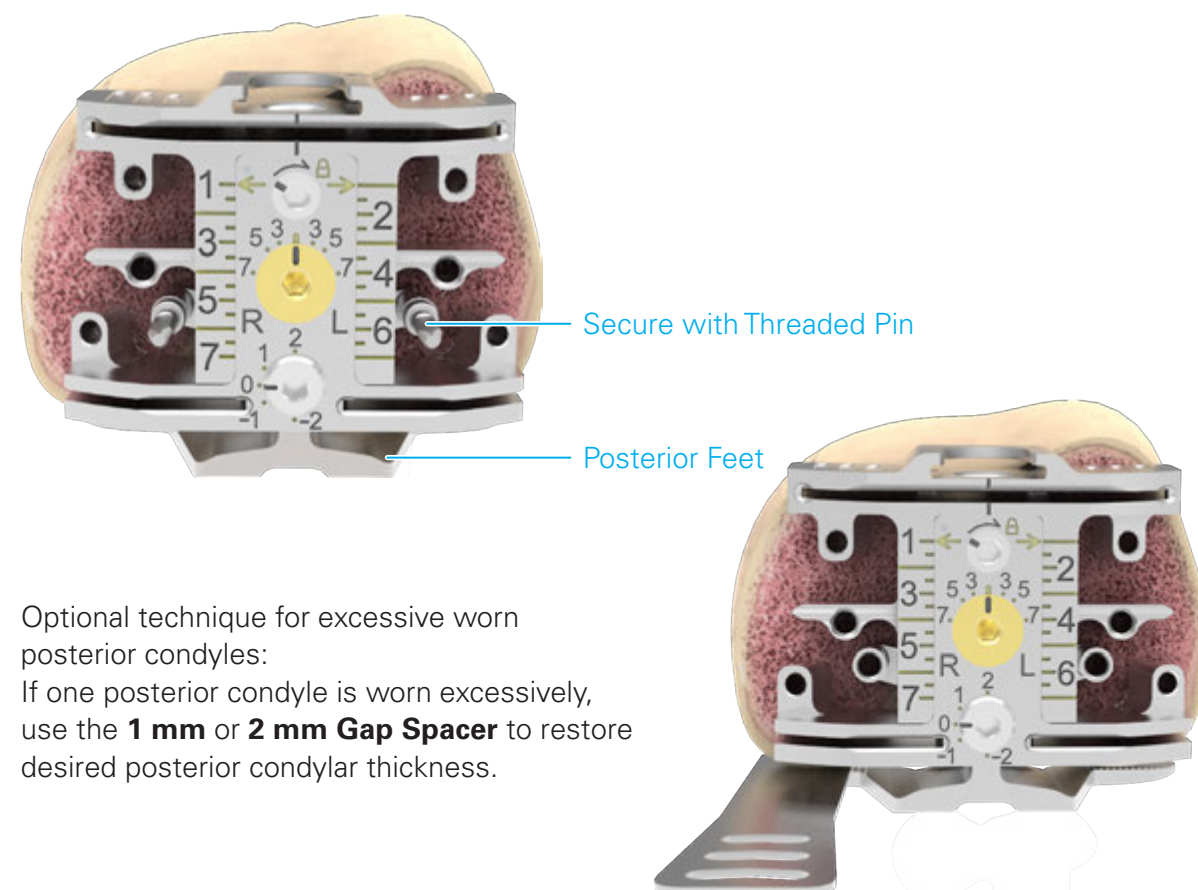
Instruments

Gap Gauge
13/15 mmGap Gauge
18 mm

D.Femoral Sizing and Chamfer Resection

Placement of the AiO Block

Confirm the Bottom Knob of the **AiO Block** is set to the zero position. Place the AiO Block against the resected distal surface of the femur with the Posterior Feet of the block seated on the posterior condyles. Then secure the **AiO Block** with two 30 mm **Threaded Pins** through the Initial Fixation Holes.



Instruments



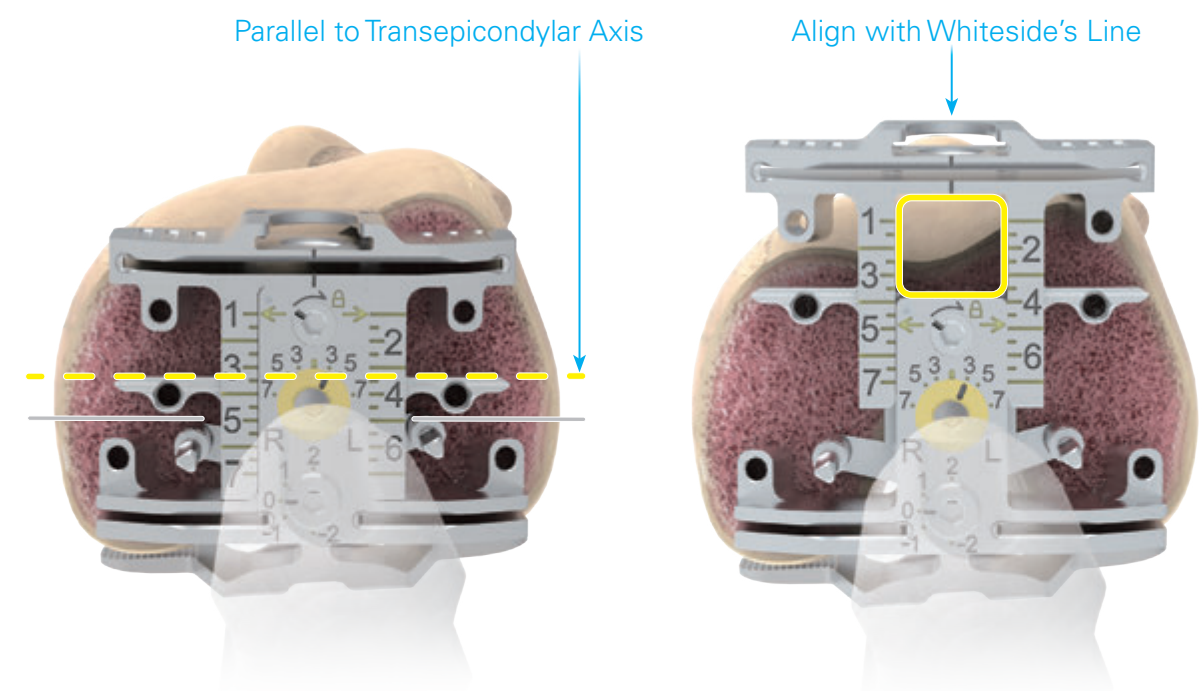
AiO Block

Threaded Pin
30 mm/50 mmGap Spacer
1 mm/2 mm

D.Femoral Sizing and Chamfer Resection

Establish External Rotation

Use the **Screwdriver** to adjust the **Central Knob** to set the desired femoral component rotation angle referencing the transepicondylar axis and Whiteside's Line. The markings on the Central Knob indicate the degrees of rotation vs. the posterior condyles and can be adjusted from 3° to 7° in 1° increments.



Instruments



AiO Block

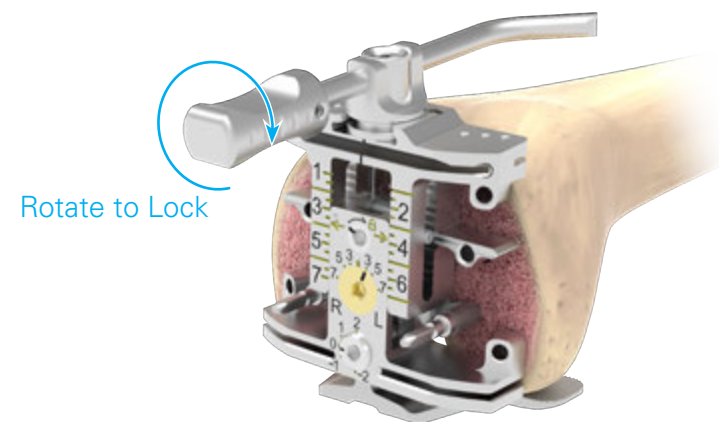


Screwdriver

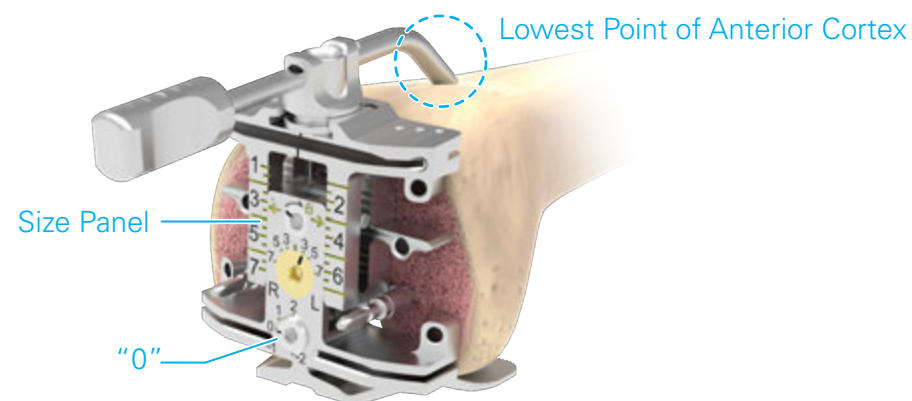
D.Femoral Sizing and Chamfer Resection

Sizing the Femur

Rotate the handle of the **Femoral Stylus** to the unlock position. Then insert the stylus into the slot on the top of the **AiO Block**. Rotate the stylus handle back to the locked position.



Position the stylus tip so it is touching the **lowest point** on the anterior femoral cortex. Check the size panel on the front of the **AiO Block**. If the block is positioned to an exact size and is in proper overall position, proceed to performing femoral resections. If the **AiO Block** is not set to an exact size or is not in proper overall position, adjustments can be made using either an anterior referencing or posterior referencing.



Instruments



AiO Block



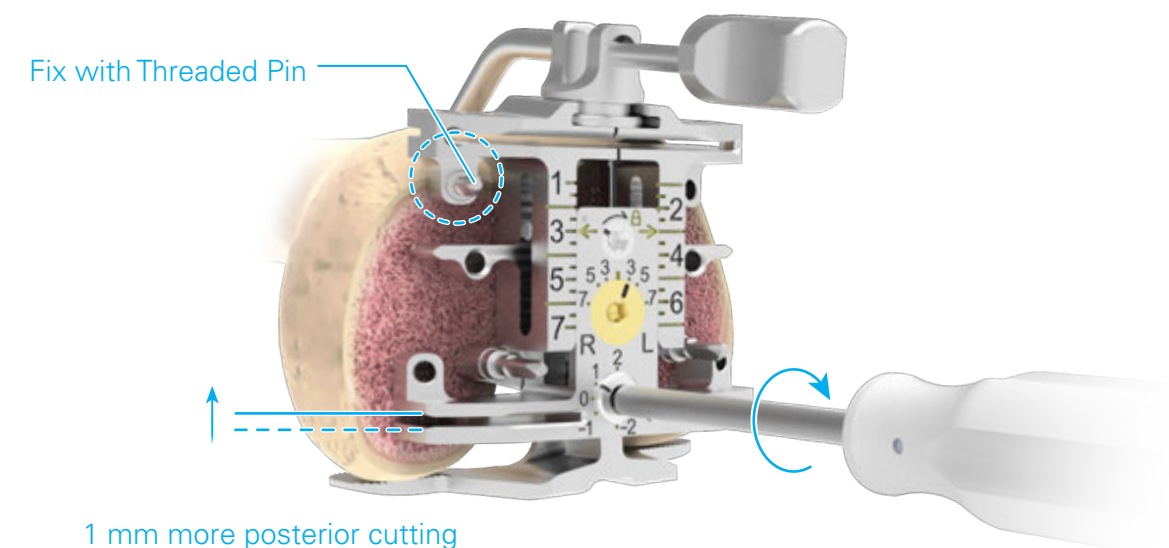
Femoral Stylus

D.Femoral Sizing and Chamfer Resection

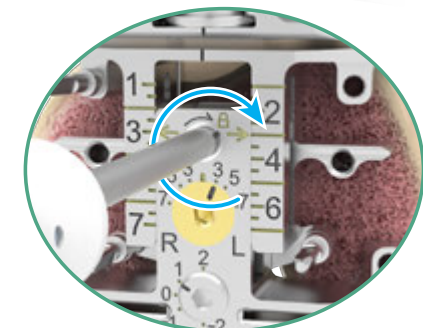
Determine the Bone Resection Level

Anterior Referencing:

Secure the **AiO Block** by inserting a **Threaded Pin** in one or both of the Anterior Referencing Fixation Holes. Use the **Screwdriver** to elevate the Posterior Resection Slot to an appropriate position by adjusting the Bottom Knob to match a chosen size. Note the figures on the Bottom Knob indicate the adjustment of the posterior condylar resection level relative to the standard 9 mm resection.



Once the appropriate size is determined, rotate the **Upper knob** to the lock position with the **Screwdriver** to secure the chosen size.



Instruments



AiO Block

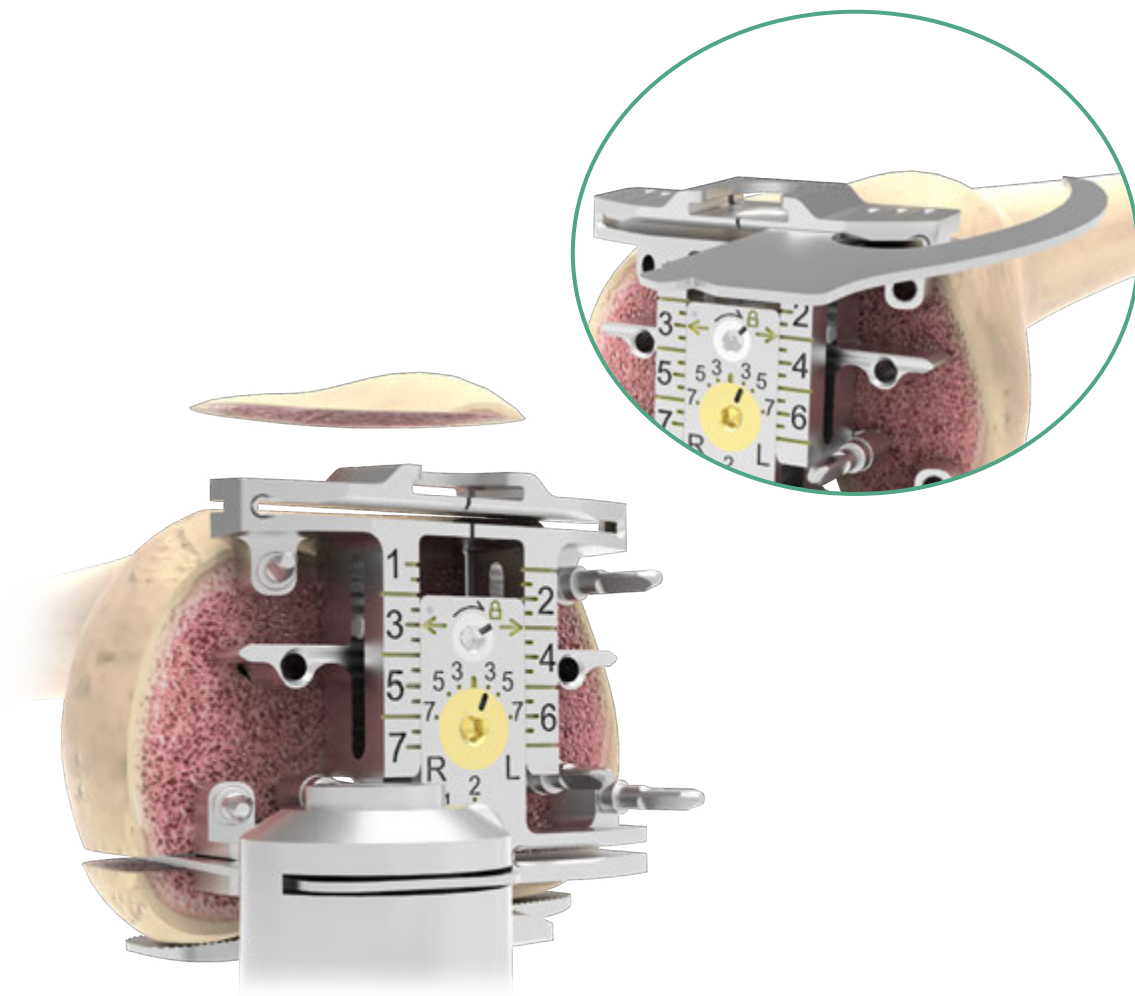
Threaded Pin
30 mm/50 mm

Screwdriver

D.Femoral Sizing and Chamfer Resection

Remove the **Femoral Stylus**, then secure the anterior and posterior slots with **Threaded Pins** and proceed with the anterior and posterior resection.

If desired, use the **Resection Check Blade** to confirm the resection level before bone resection.



Instruments



AiO Block



Femoral Stylus

Threaded Pin
30 mm/50 mm

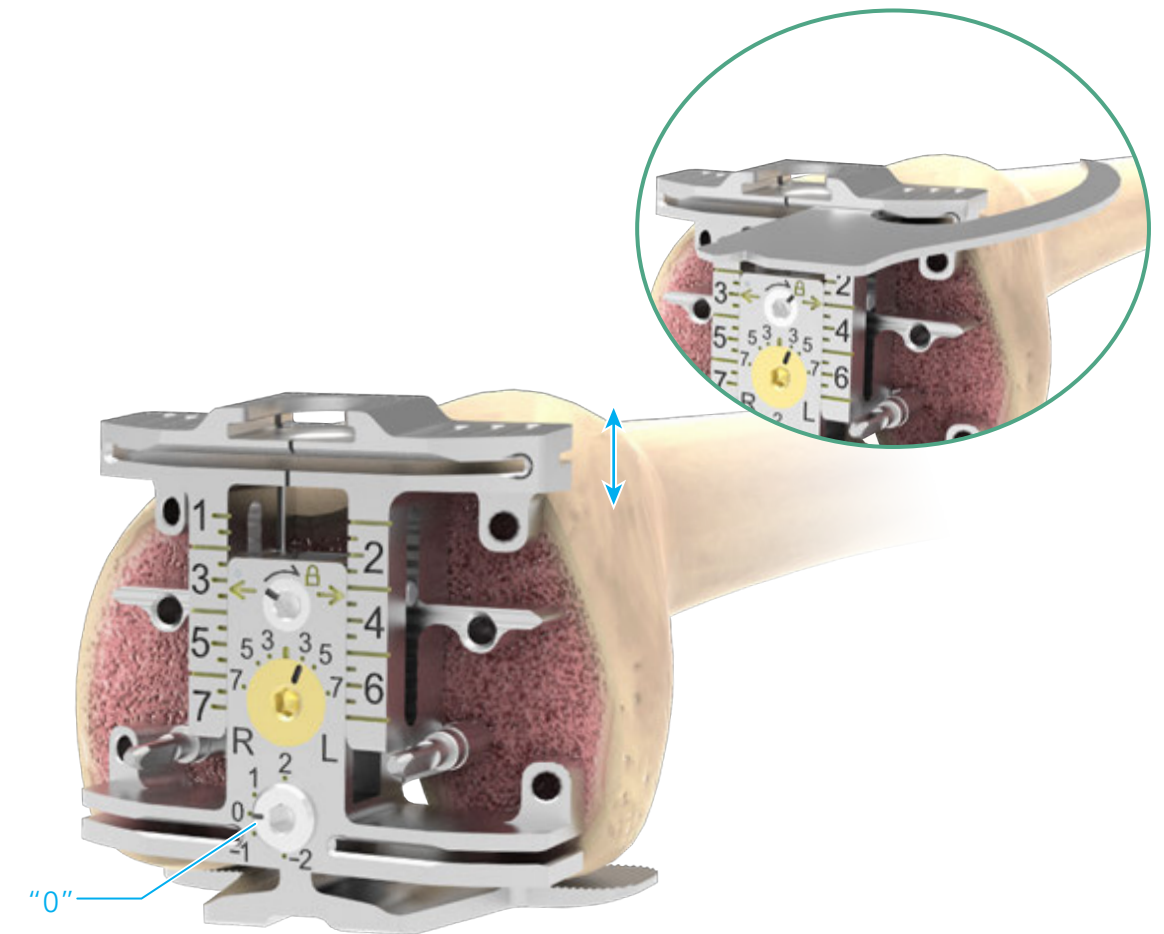
Resection Check Blade

D.Femoral Sizing and Chamfer Resection

Posterior Referencing:

Make sure the bottom knob indicates "0", which refers to the 9 mm standard posterior thickness in the prosthesis. Then remove the **Femoral Stylus**. Slide the anterior slot to match a proper size on the size panel.

Always check the resection level with the **Resection Check Blade**.



Instruments



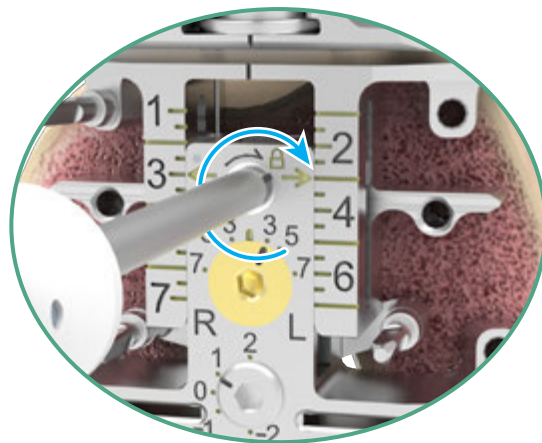
AiO Block



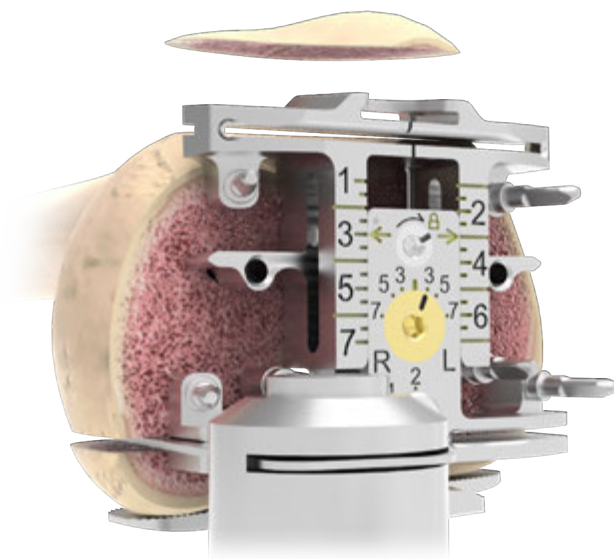
Resection Check Blade

D.Femoral Sizing and Chamfer Resection

Once the size is determined, rotate the upper knob with the **Screwdriver** to the lock position to secure the chosen size and lock the cutting block.



Fix the anterior and posterior slots with **Threaded Pins** and proceed with the anterior and posterior resection.



Instruments



AiO Block



Screwdriver

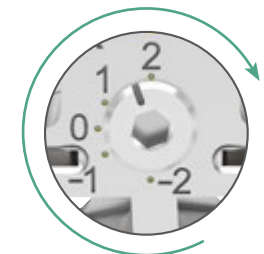
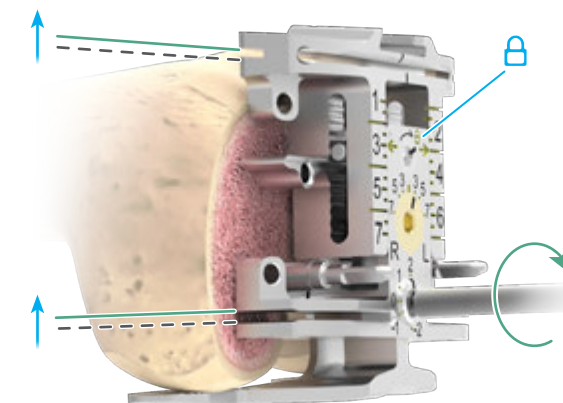


Threaded Pin
30 mm/50 mm

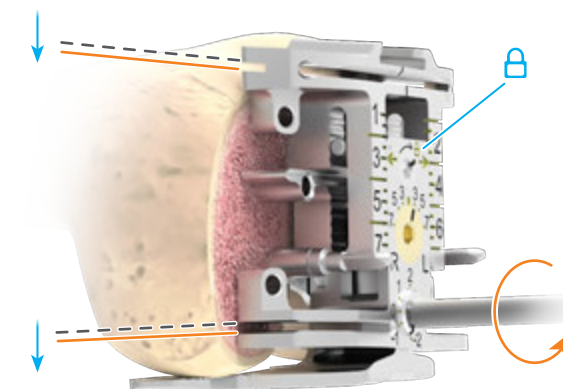
D.Femoral Sizing and Chamfer Resection

Fine Tune

Occasionally, even when the proper size is chosen the desired resection level may be unsatisfactory. If this occurs, a slightly redistributed anterior and posterior bone resection may be considered. With the upper knob in the locked position, use the **Screwdriver** to rotate the bottom knob clockwise to allow for less anterior, and more posterior cut; conversely, rotate the bottom knob counterclockwise to make more anterior and a smaller posterior cut. The range of adjustment is between +2 mm and -2 mm to the standard 9 mm posterior cut.



Clockwise Rotation:
Less Anterior,
More Posterior Resection



Counterclockwise Rotation:
More Anterior,
Less Posterior Resection

Instruments



AiO Block

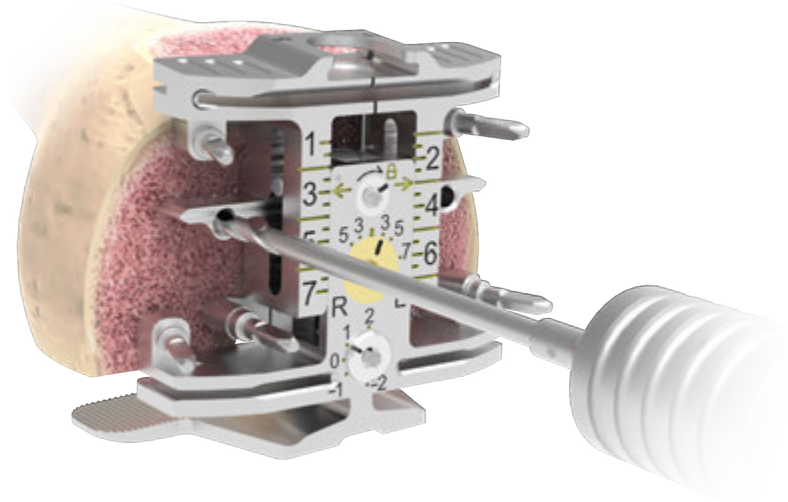


Screwdriver

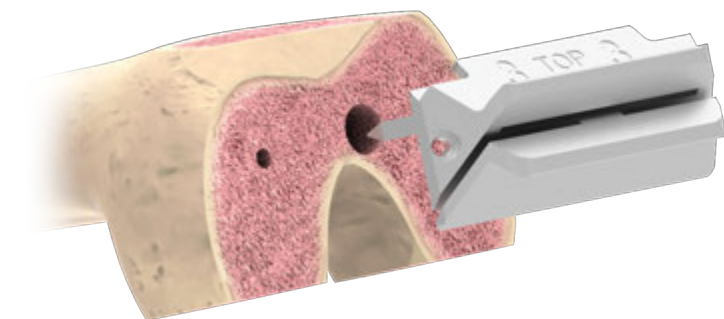
D.Femoral Sizing and Chamfer Resection

Chamfer Cut

Use the **3.2 mm Drill** to drill two reference holes for the **Femoral Chamfer Resection Guide** before removing the **AiO Block**.



Place the appropriate size **Femoral Chamfer Resection Guide** into the pre-drilled pin holes.



Instruments



3.2 mm Drill



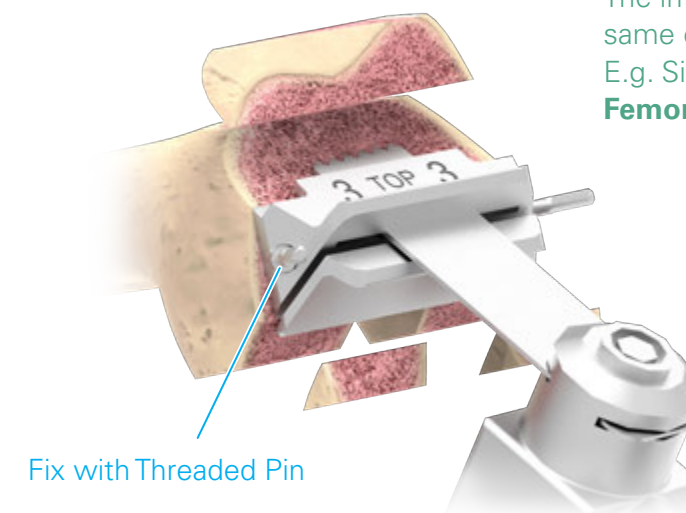
Femoral Chamfer Resection Guide

D.Femoral Sizing and Chamfer Resection

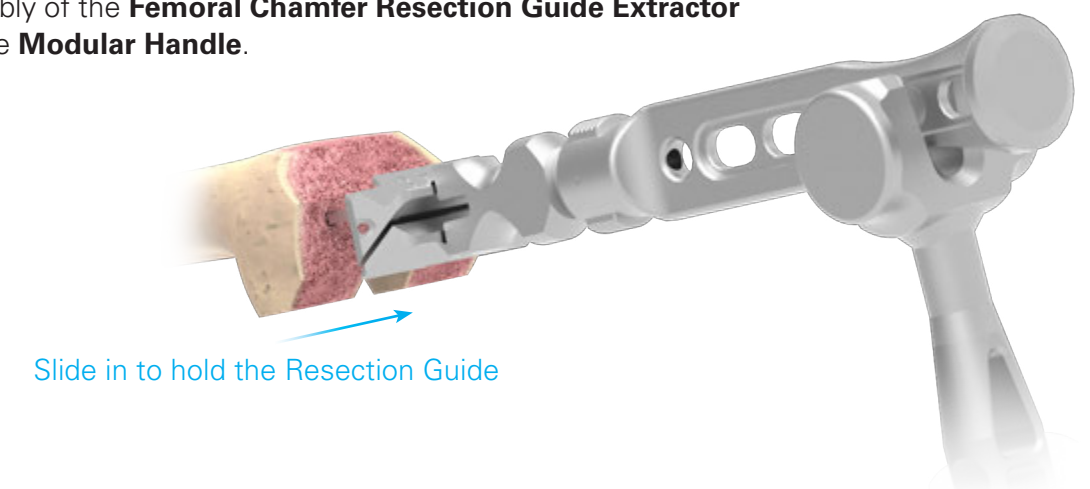
Secure the **Femoral Chamfer Resection Guide** with **Threaded Pins** and then complete chamfer cuts.

Note:

The intermediate femoral sizes shares the same chamfer resection guide to integral size. E.g. Size 3.5 and Size 3 both use Size 3 **Femoral Chamfer Resection Guide**.



Femoral Chamfer Resection Guide can be removed via the assembly of the **Femoral Chamfer Resection Guide Extractor** and the **Modular Handle**.



Instruments



Femoral Chamfer Resection Guide



Threaded Pin
30 mm/50 mm



Femoral Chamfer Resection Guide Extractor



Modular Handle



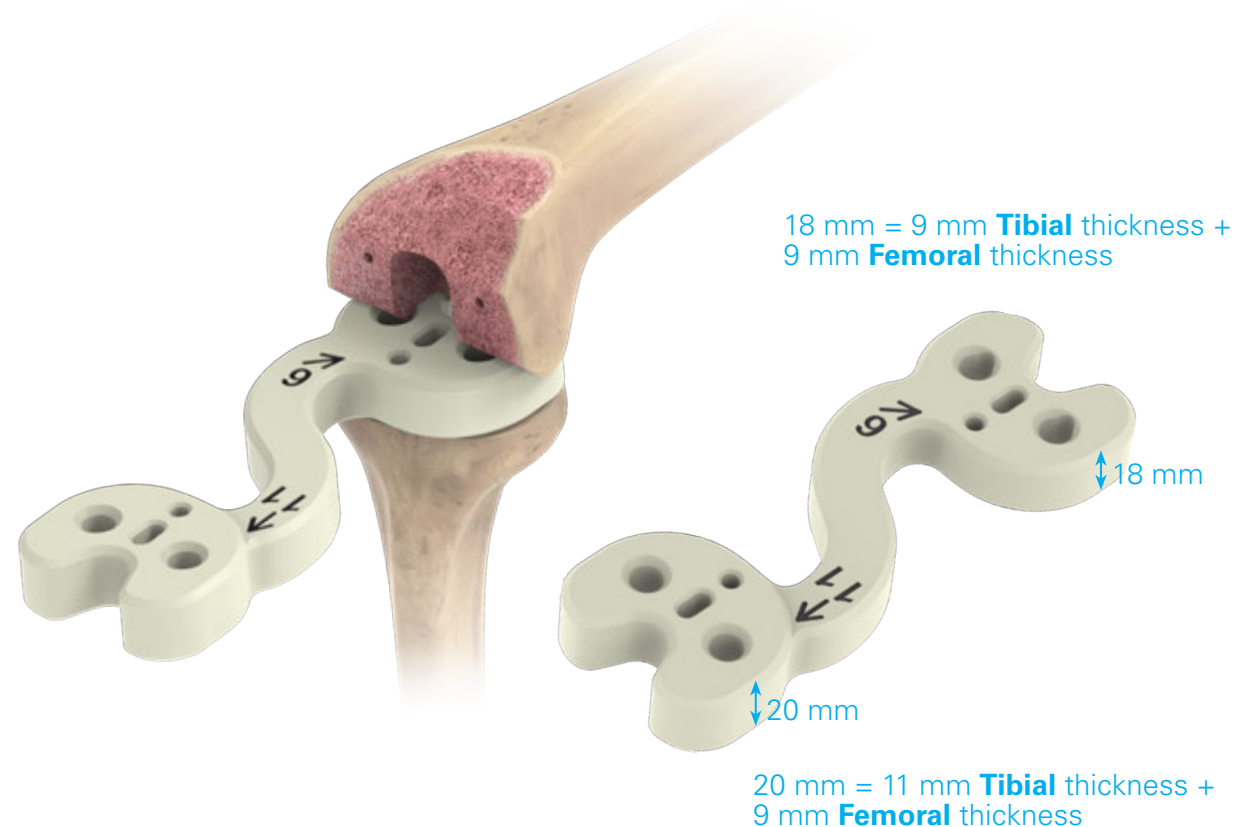
Slotted Hammer

E.Extension and Flexion Gaps Confirmation

The extension and flexion joint gaps may be evaluated with the **Gap Gauge**. Select the 9 mm **Gap Gauge** initially to assess both the extension and flexion joint gaps. If a thicker gap is required, combine additional Gap Gauge Blocks with different thicknesses and test again. The range of thickness is from 9 mm to 18 mm. If the assessed femoral and extension gaps are optimal, insert the femoral and tibial trials to test overall knee mobility and their relative implant position.

 Note:

The **Alignment Rod** may be inserted through the Gap Gauge handle to assess the extramedullary alignment in both extension and flexion.



Instruments



Gap Gauge



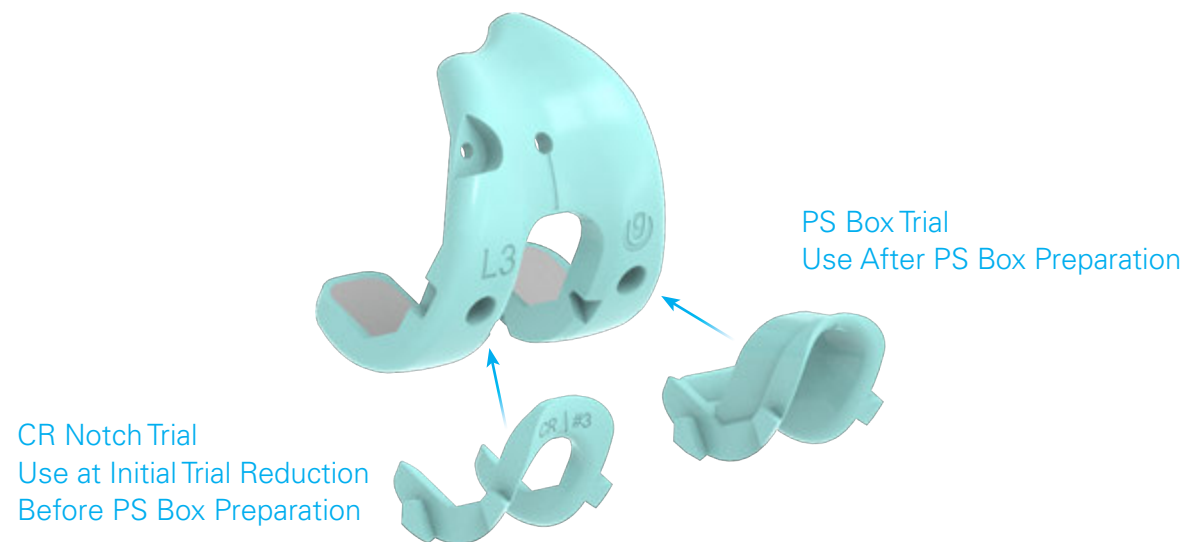
Alignment Rod

F.Trial Reduction

With Modular Disposable Trial (MDT)

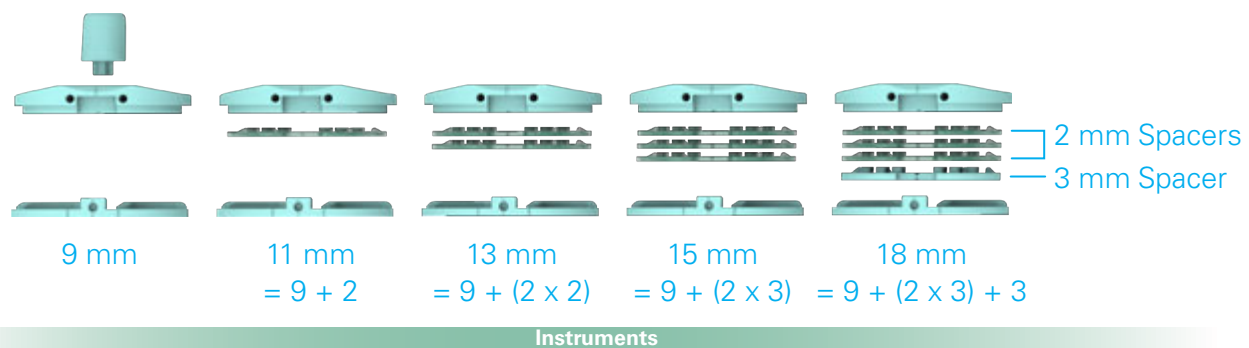
Select the proper single-use **Modular Disposable Trial (MDT)** set based on the selected femoral component size.

Connect the **CR Notch Trial** to the **Femoral Trial**. If using a CR system, this will remain in place. If using a PS system, leave the **CR Notch Trial** in place at the initial trial reduction, then remove for PS Box Preparation (The PS Box Trial will be used after PS Box Preparation).



2 mm or 3 mm **Spacers** can be used to stack up desired insert trial thickness. Additionally, the **PS Post Trial** can be used to convert the CR insert trial into PS insert trial.

PS Post Trial



MDT
Femoral Trial Set



MDT
Tibial Trial Set

With Reusable Trials

Select the proper size of reusable trials.

Femoral component trials



CR Femoral Trial



PS Femoral Trial

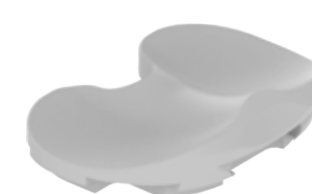
Tibial baseplate trials



Insert trials



CR Insert Trial



UC Insert Trial

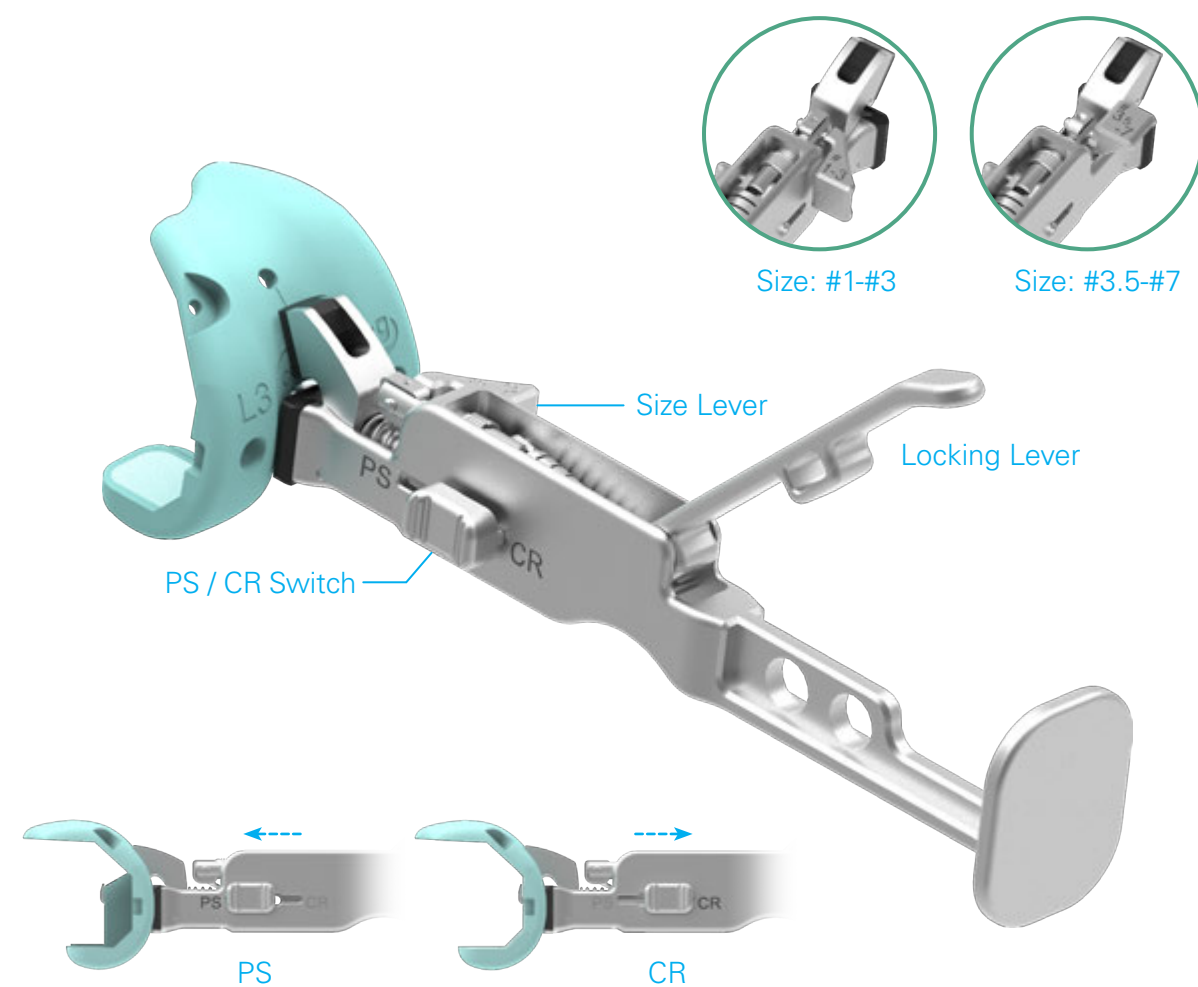


PS Femoral Trial

F.Trial Reduction

With Modular Disposable Trial (MDT)

Femoral Driver should be used for accurate positioning of the femoral trial.



Note:

The **Femoral Driver** can be easily removed by releasing the locking lever and sliding the instrument downward toward posterior condyle.

Instruments

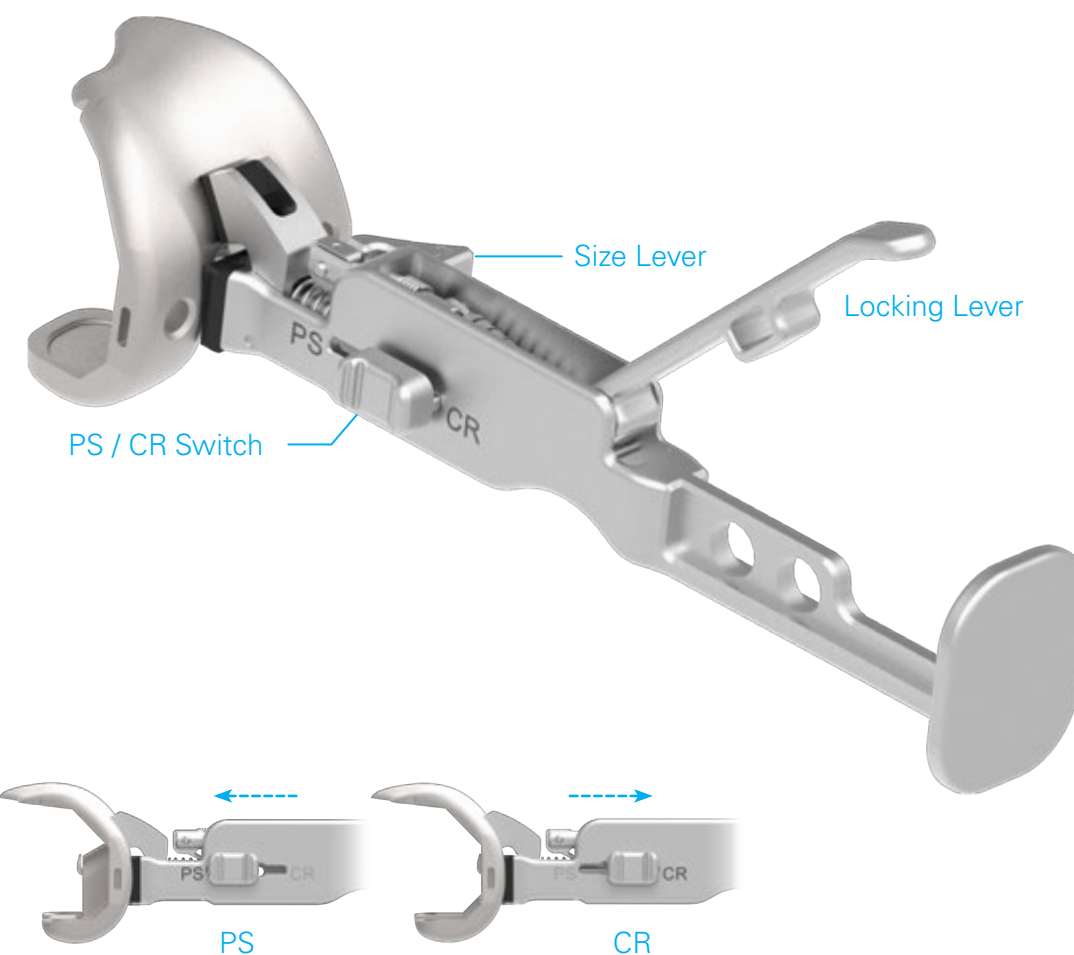


MDT
Femoral Trial Set



Femoral Driver

With Reusable Trials



Instruments



CR Femoral Trial

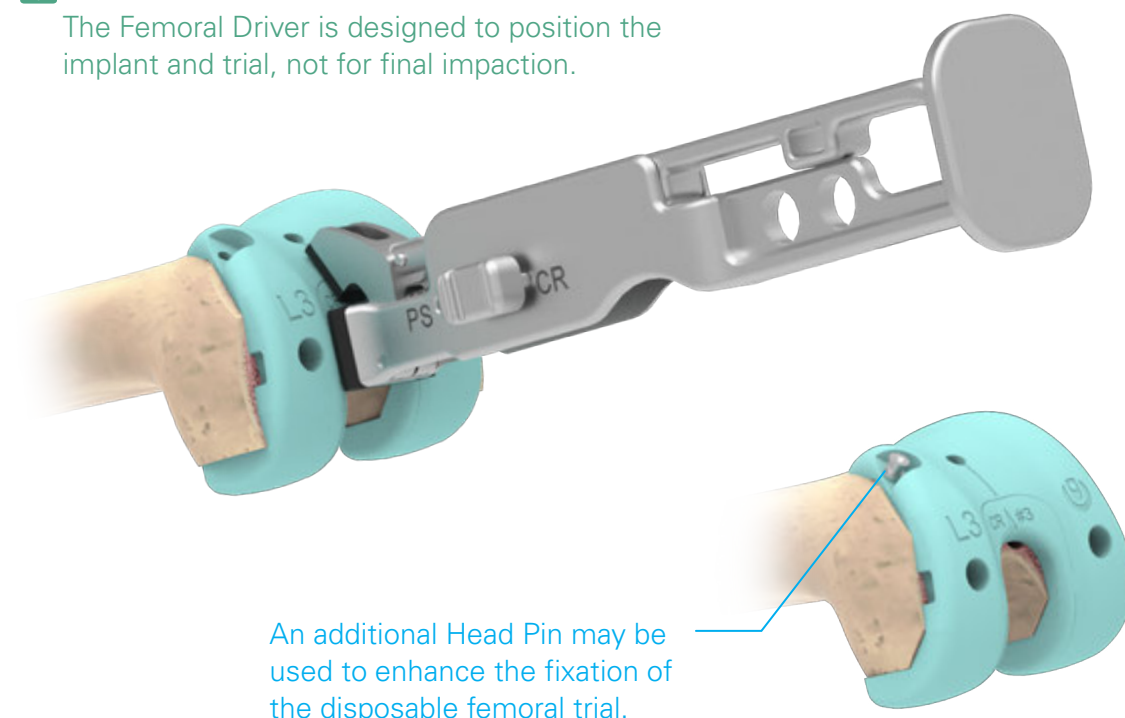
F.Trial Reduction

With Modular Disposable Trial (MDT)

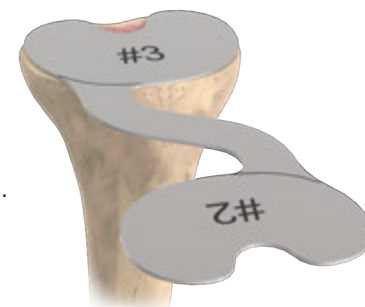
Slide the central switch of the **Femoral Driver** toward the "CR" mark and release the locking lever. Assemble the selected size of the **CR Femoral Trial** to the **Femoral Driver**. Impact gently to introduce the femoral trial onto the prepared femur.

⚠ Caution:

The Femoral Driver is designed to position the implant and trial, not for final impaction.



Use the **Tibial Sizing Template** to determine the appropriate tibial size for the **Modular Disposable Trial**.



Instruments



MDT
Femoral Trial Set



Femoral Driver

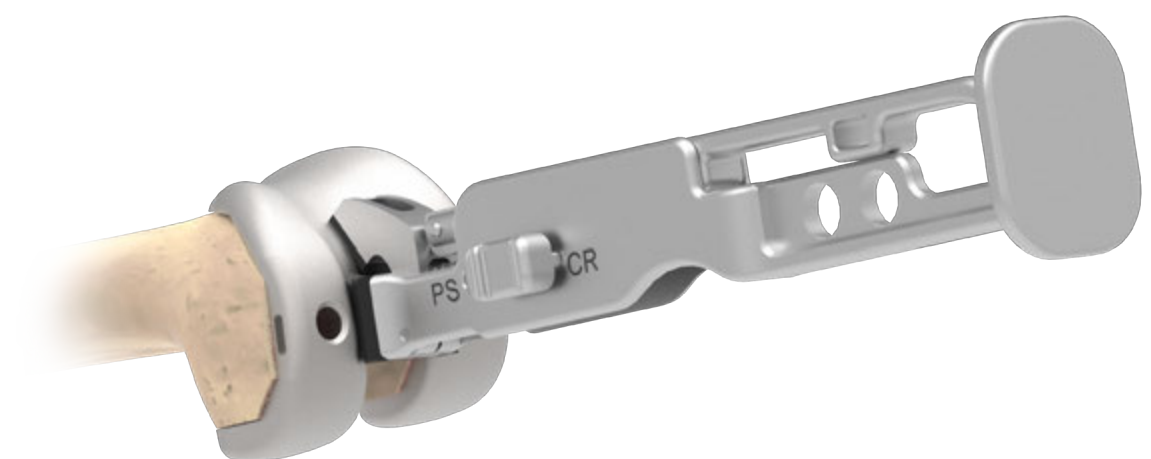


Head Pin

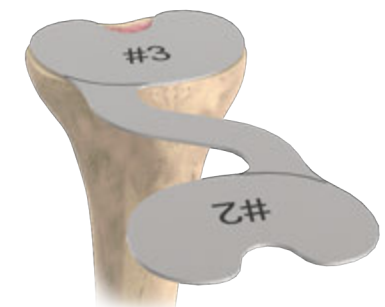


Tibial Sizing
Template

With Reusable Trials



Use the **Tibial Sizing Template** to determine the appropriate tibial size for the **Reusable Trial**.



Instruments

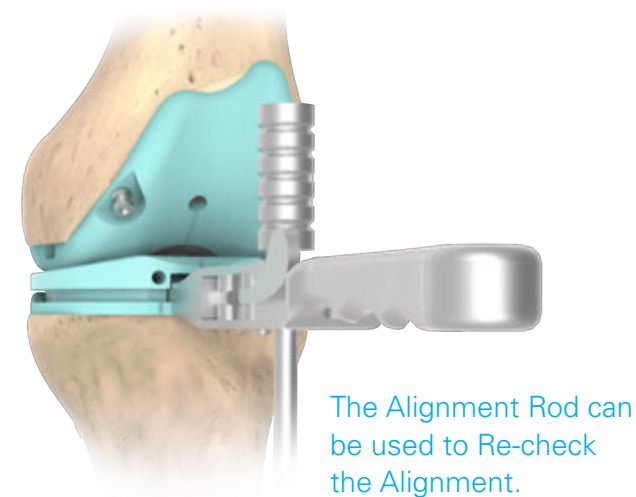


CR Femoral Trial

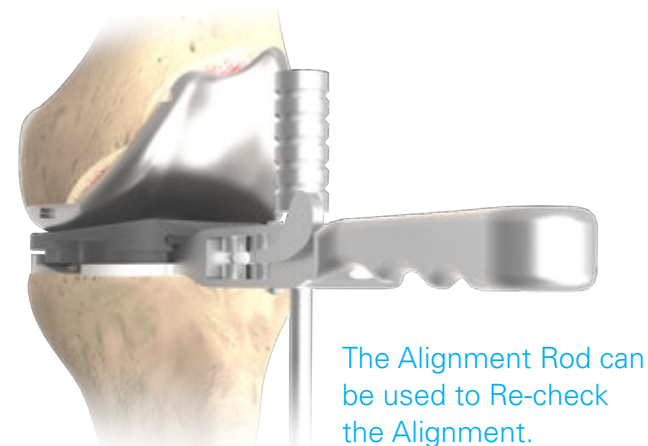
F.Trial Reduction

Utilize the **Tibial Baseplate Trial Handle** to position the 9 mm **Insert Trial** and **Tibial Baseplate Trial** onto the resected tibial surface.

With Modular Disposable Trial (MDT)



With Reusable Trials



Instruments



MDT
Tibial Trial Set



Alignment Rod



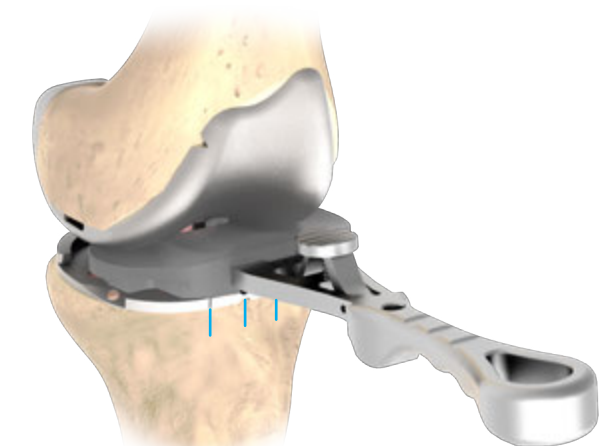
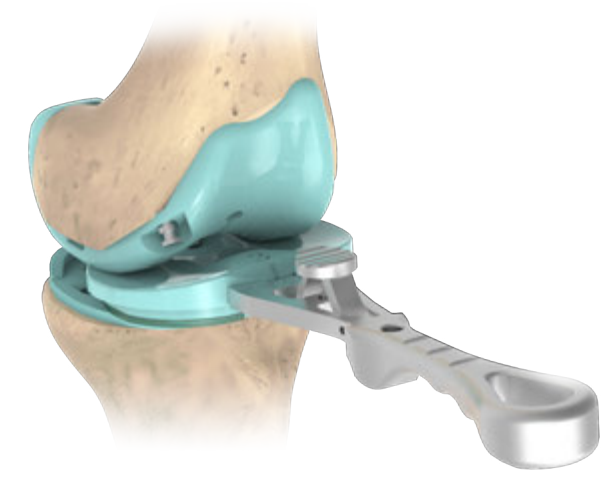
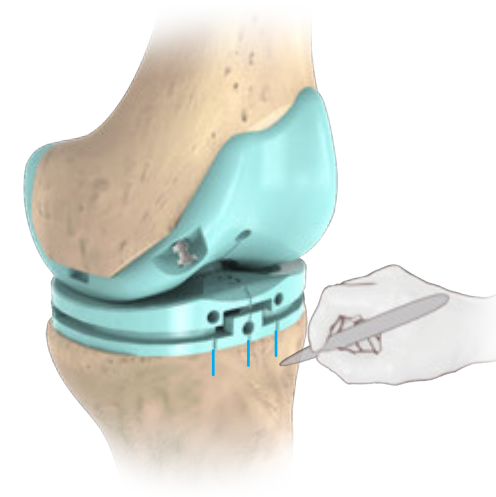
Tibial Baseplate
Trial Handle



Tibial Insert
Trial Handle

A trial reduction can be conducted with all the trial components in situ to determine proper alignment or reference to bony landmarks to set optimal tibial component rotation.

Evaluate the flexion and extension gap by using the **Tibial Insert Trial Handle** to switch different **Insert Trial** thicknesses as needed.



Instruments



CR Femoral Trial



Tibial Baseplate
Trial

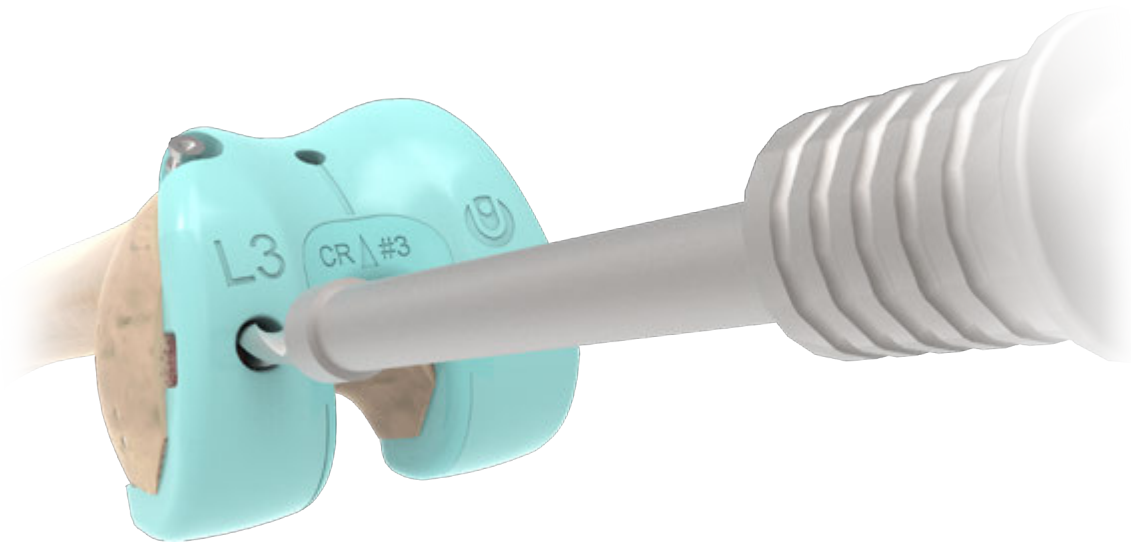


CR Tibial Insert
Trial

G.CR Pegs Preparation

With Modular Disposable Trial (MDT)

Drill the fixation peg holes on the **CR Femoral Trial** with the **Femoral Condyle Drill**.



Instruments

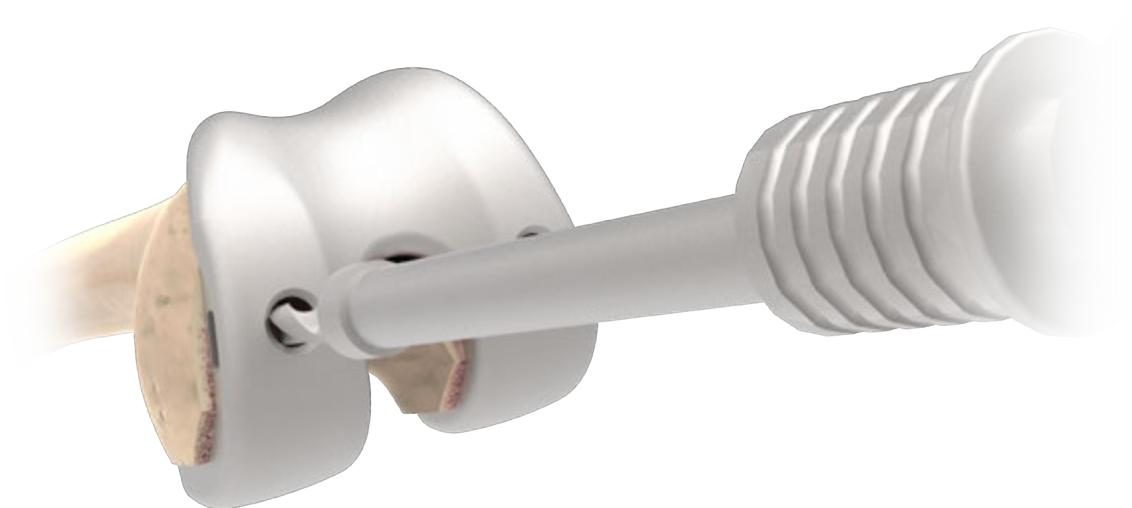


MDT
Femoral Trial Set



Femoral
Condyle Drill

With Reusable Trials



Instruments



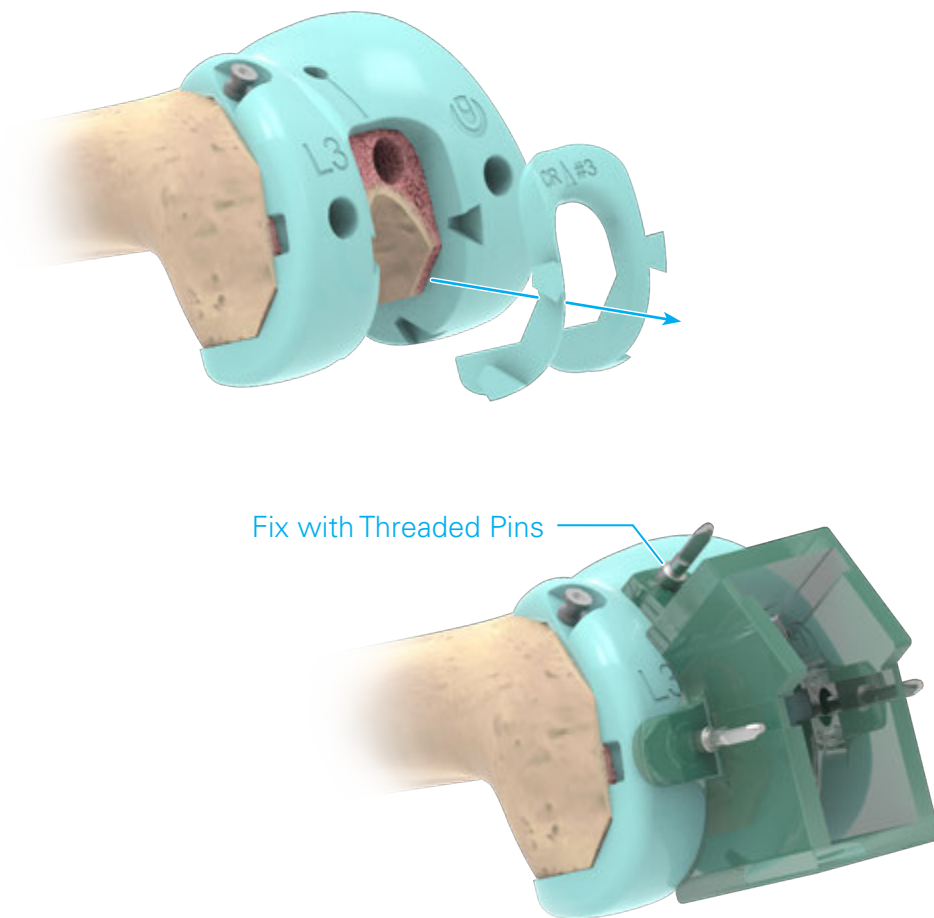
CR Femoral Trial

H.PS Box Preparation

Position the PS Notch Cutting Jig with Modular Disposable Trial (MDT)

Remove the **CR Notch Trial** with the **Femoral Trial** left in position on the femur.

Attach the **PS Notch Cutting Jig** to the **Femoral Trial**. Secure with up to three **Threaded Pins** as needed to confirm fixation.



Instruments

MDT
Femoral Trial SetThreaded Pin
30 mm/50 mm

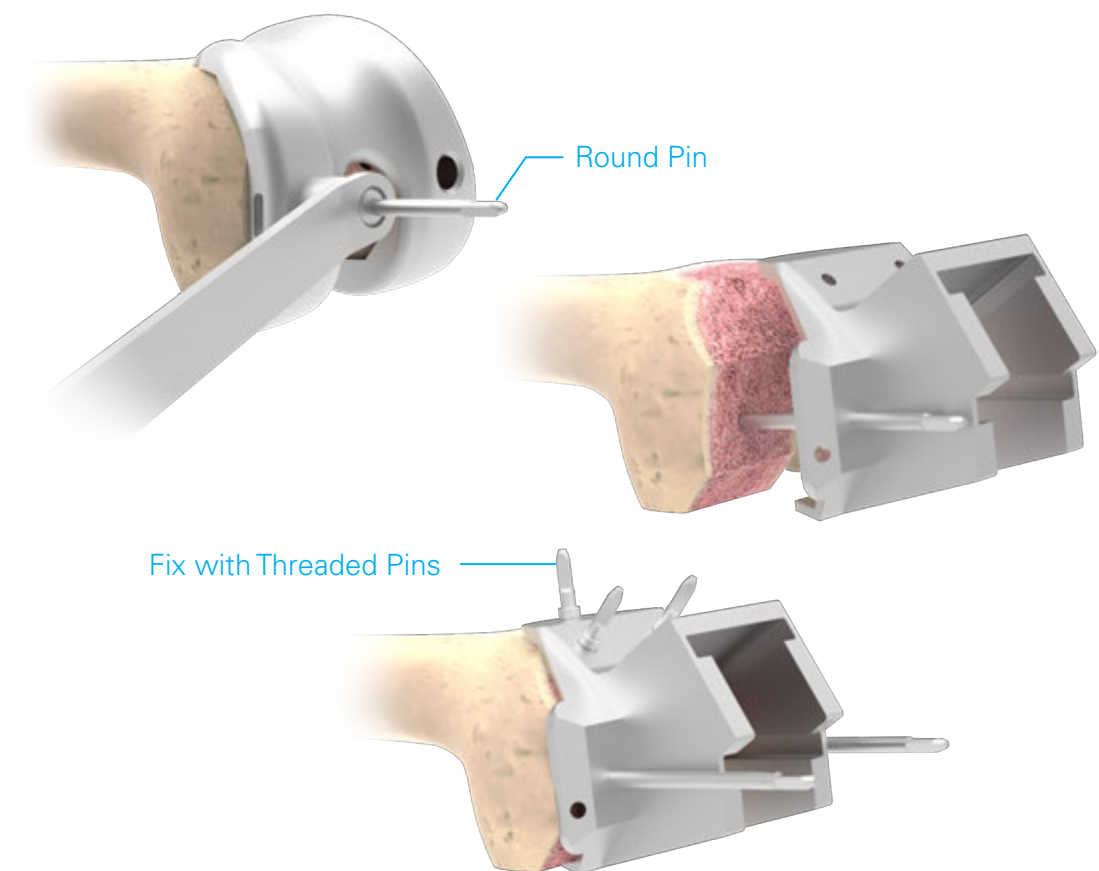
Round Pin

Position the PS Notch Cutting Jig with Reusable Trials

Use of the Reusable Femoral Trial and PS Box Cutting Jig:

With the reusable **CR Femoral Trial** in place, insert the **PS Cutting Jig Drill Guide** onto one fixation peg hole. Drill a pilot hole with **3.2 mm Drill** through the pin hole on the drill guide and place a **Round Pin** through the drill guide to further position the **PS Notch Cutting Jig**.

Remove the **CR Femoral Trial** and secure the **PS Notch Cutting Jig** with **Threaded Pins**. The M/L width of **PS Notch Cutting Jig** is the same as the M/L width of the implant.



Instruments

Threaded Pin
30 mm/50 mm

CR Femoral Trial

PS Cutting Jig
Drill Guide

Round Pin

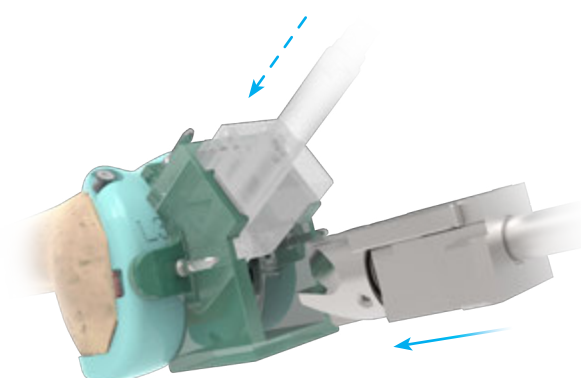
PS Notch
Cutting Jig

H.PS Box Preparation

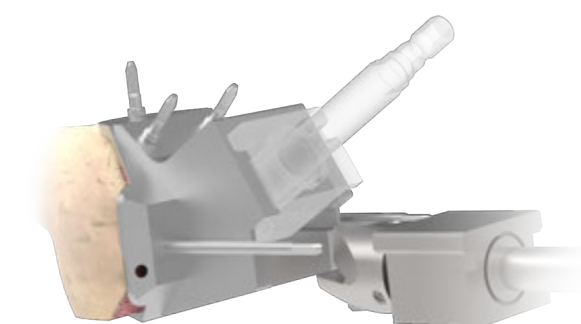
Prepare PS Box

Attach the **PS Reamer** to a drill and insert into the anterior guide slot on the **PS Notch Cutting Jig**. Ream until fully engaged with the stopping point. Repeat for the posterior guide slot.

With Modular Disposable Trial (MDT)



With Reusable Trials



The **Slotted Hammer** can be used to disengage both the punch and the impactor from the cutting jig.

Instruments



MDT Femoral Trial Set



PS Reamer



Modular Handle



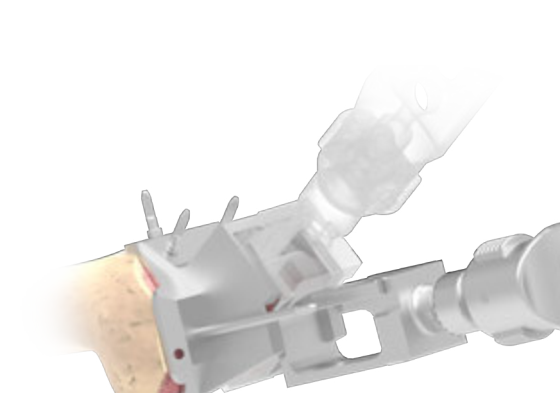
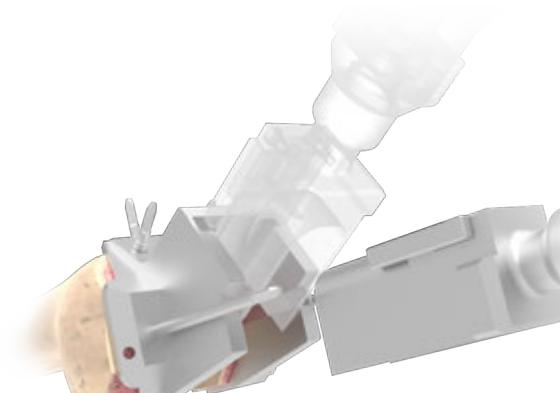
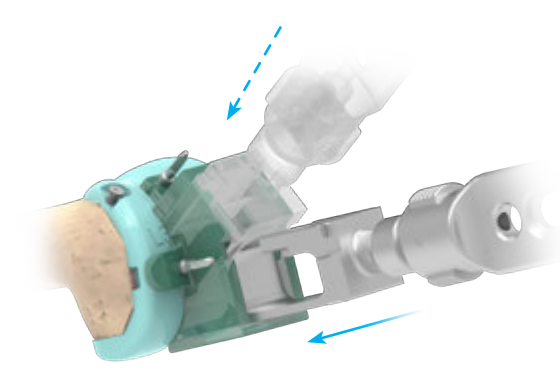
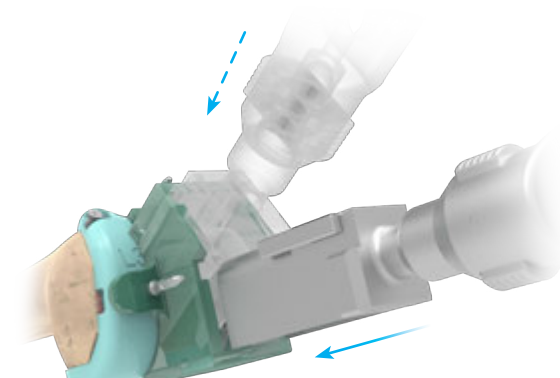
PS Housing Punch



PS Notch Cutting Jig

Attach the **PS Housing Punch** to the **Modular Handle**. Advance the punch into the anterior guide slot to remove any remaining bone or tissue. Repeat for the posterior guide slot.

Attach the **PS Housing Impactor** to the **Modular Handle**. Advance the impactor into the anterior guide slot until fully engaged with the stopping mechanism to verify all bone and tissue is removed. Repeat for the posterior guide slot.



Instruments



PS Housing Impactor



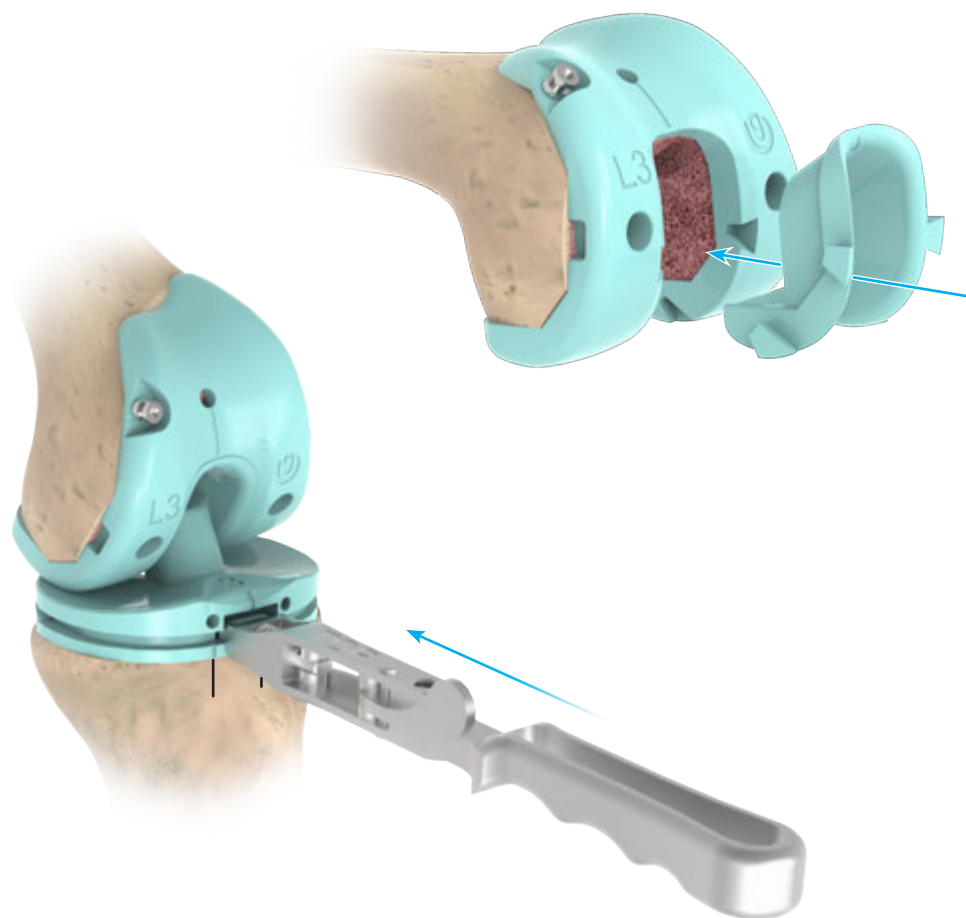
Slotted Hammer

H.PS Box Preparation

Trial Reduction with Modular Disposable Trial (MDT)

Remove the **PS Notch Cutting Jigs** and pins, then attached the **PS Box Trial** to the **Femoral Trial**.

Attach the **PS Post Trial** onto the tibial insert trial to form a complete **PS Insert Trial**.
Use the **Tibial Baseplate Trial Handle** to insert and position the assembled **PS Insert Trial** and **Tibial Baseplate Trial** onto the resected tibia. Perform trial reduction to evaluate joint stability and range of motion.



Instruments



MDT
Femoral Trial Set



MDT
Tibial Trial Set

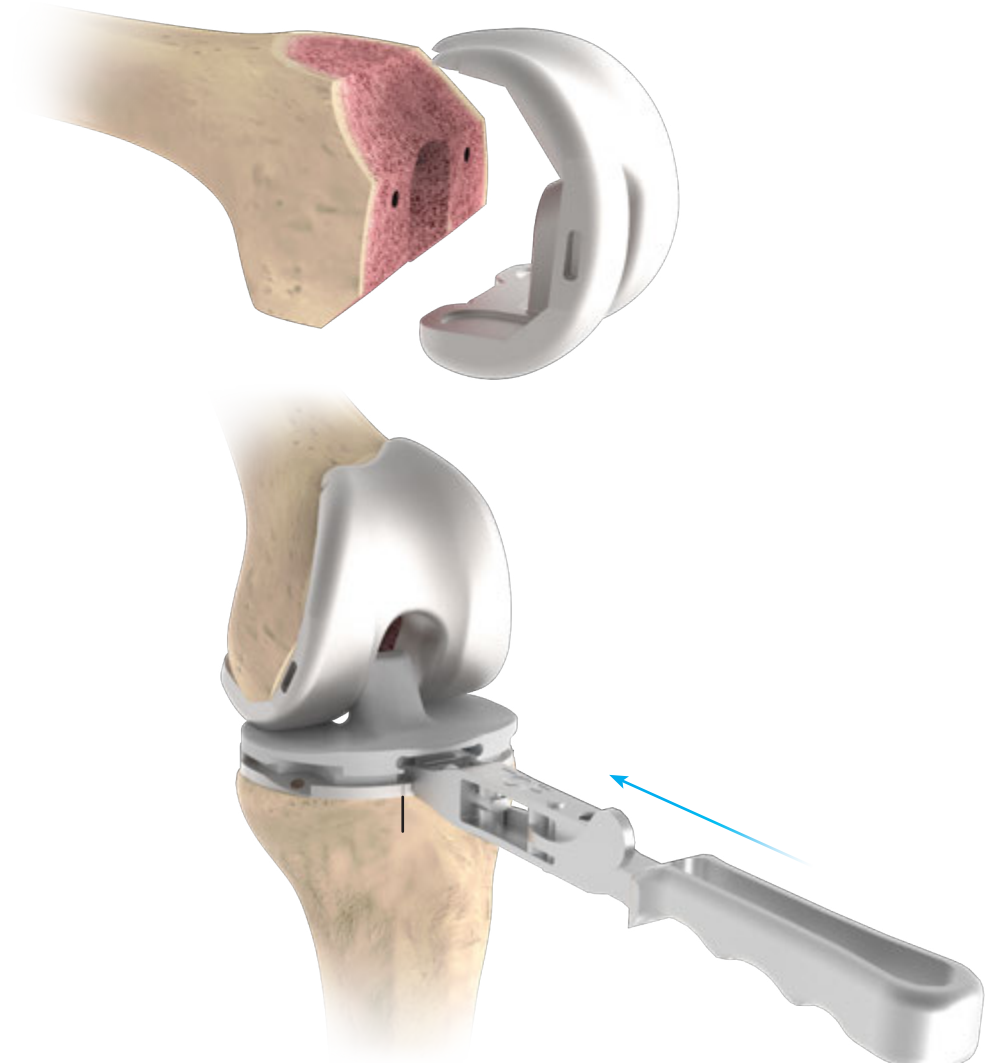


Tibial Baseplate
Trial Handle

Trial Reduction with Reusable Trials

Replace the **PS Notch Cutting Jig** and pins with **PS Femoral Trial**.

Utilize the **Tibial Baseplate Trial Handle** to position both the **PS Insert Trial** and **Tibial Baseplate Trial**. Perform a trial reduction to evaluate joint stability and range of motion.



Instruments



Reusable
PS Femoral Trial



Reusable
Tibial Baseplate
Trial

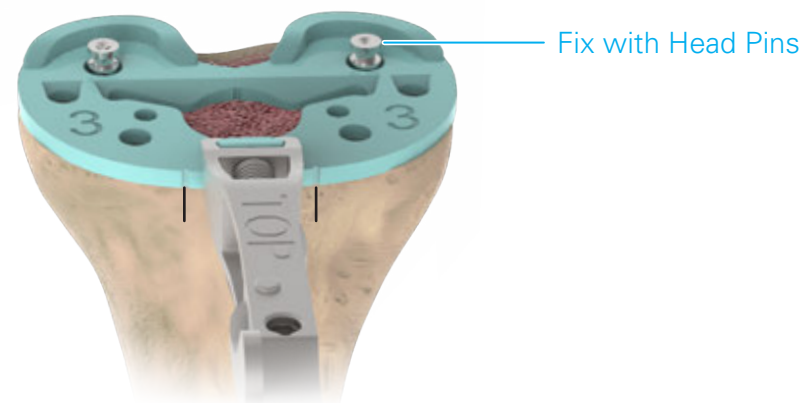


Reusable
PS Tibial Insert
Trial

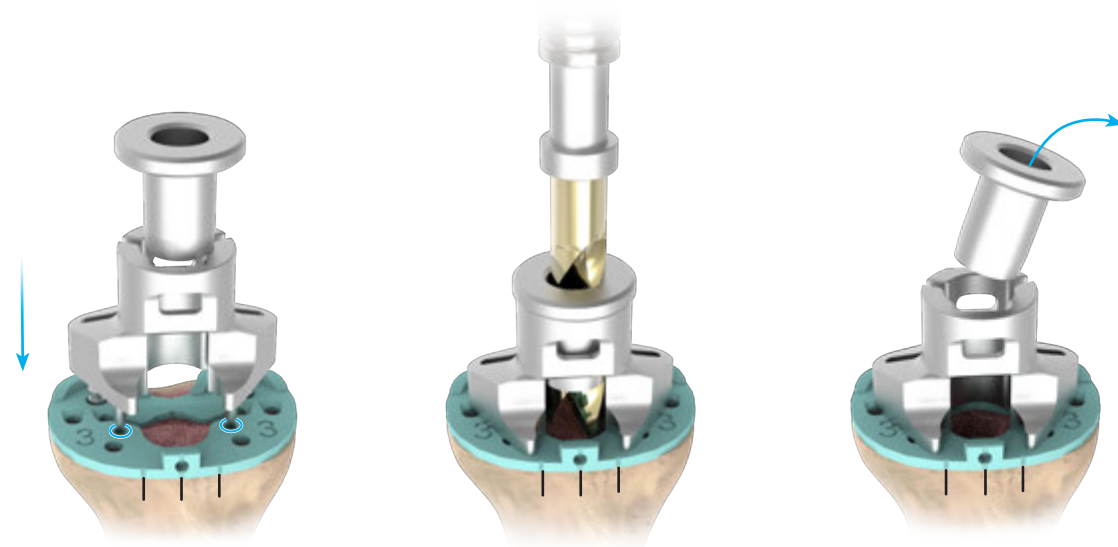
I. Proximal Tibial Preparation

With Modular Disposable Trial (MDT)

Align the baseplate trial with the pre-marked rotational orientation and secure with two **Head Pins**.



Attach the **Tibial Punch Guide** onto the baseplate trial. Tap into position with the **Slotted Hammer**. Slide the **Tibial Drill Guide** into the **Tibial Punch Guide**. Insert the **Tibial Drill** into the drill guide, drilling until the stop hits the top of the guide. Remove the **Tibial Drill Guide**, leaving the **Tibial Punch Guide** in position.



Instruments



MDT
Tibial Trial Set



Tibial Baseplate
Trial Handle

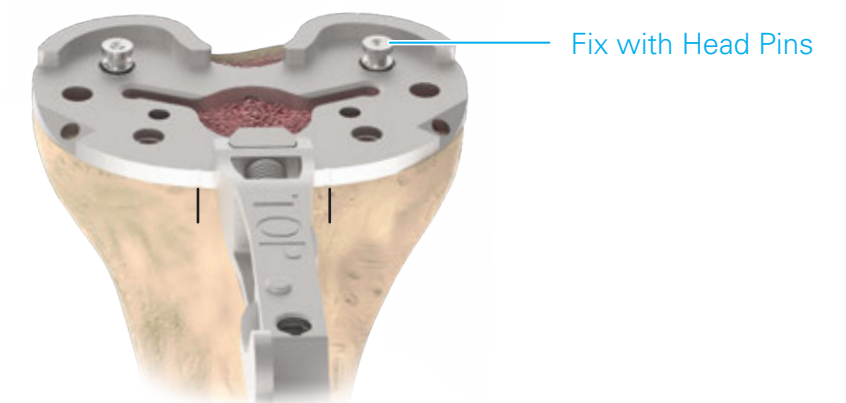


Head Pin



Tibial Drill Guide

With Reusable Trials



Instruments



Tibial Punch Guide



Tibial Drill



Reusable
Tibial Baseplate
Trial

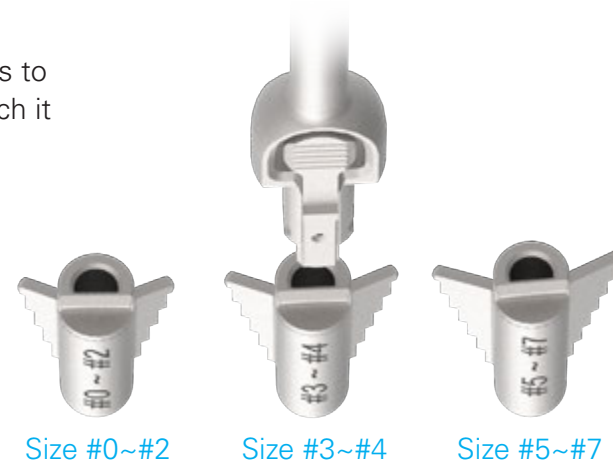


Slotted Hammer

I. Proximal Tibial Preparation

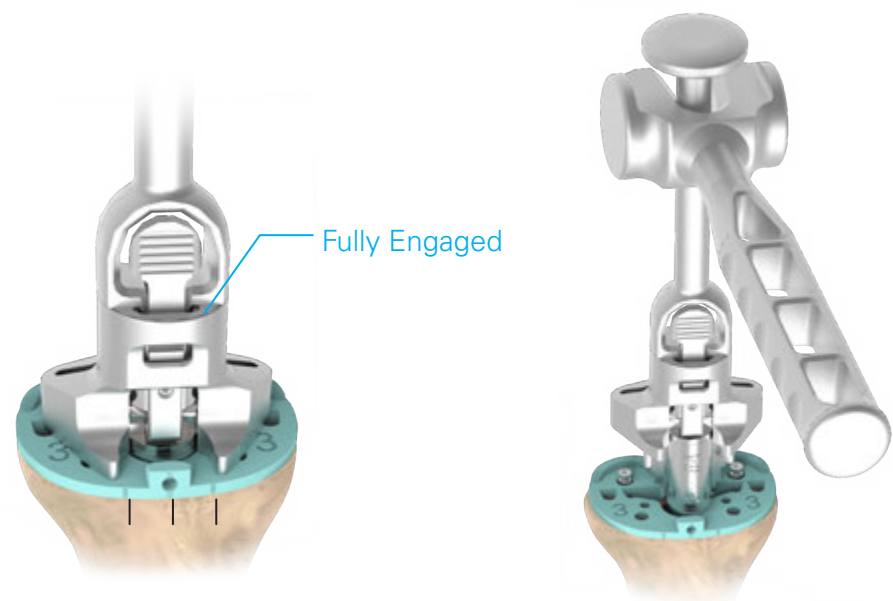
With Modular Disposable Trial (MDT)

Choose the **Tibial Punch** that corresponds to the selected Tibial Baseplate size and attach it to the **Tibial Punch Handle**.



Insert the **Tibial Punch** into the **Tibial Punch Guide** and tap with the **Slotted Hammer** until the punch is fully engaged with the top of the guide.

Disengage the **Tibial Punch** assemblies with the **Slotted Hammer** and remove the **Head Pins**.



Instruments



MDT
Tibial Trial Set

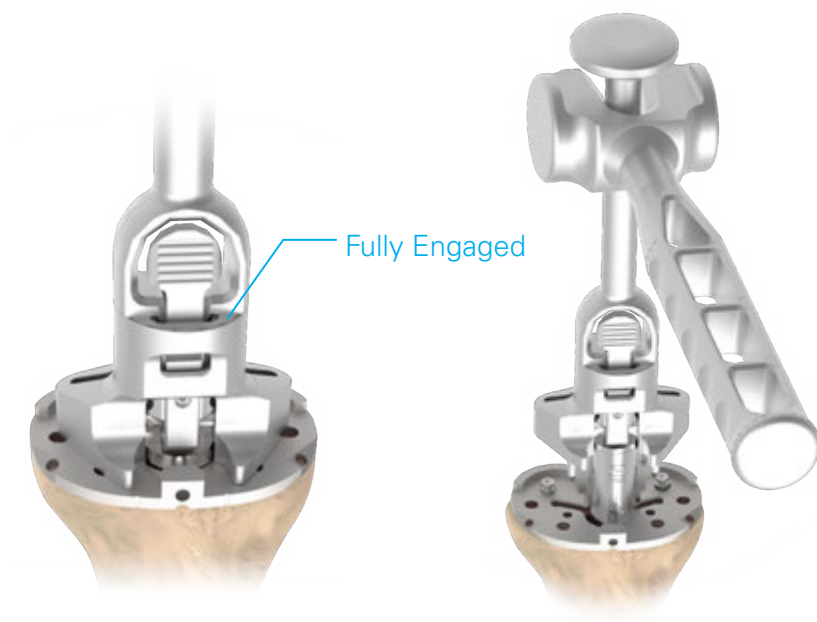
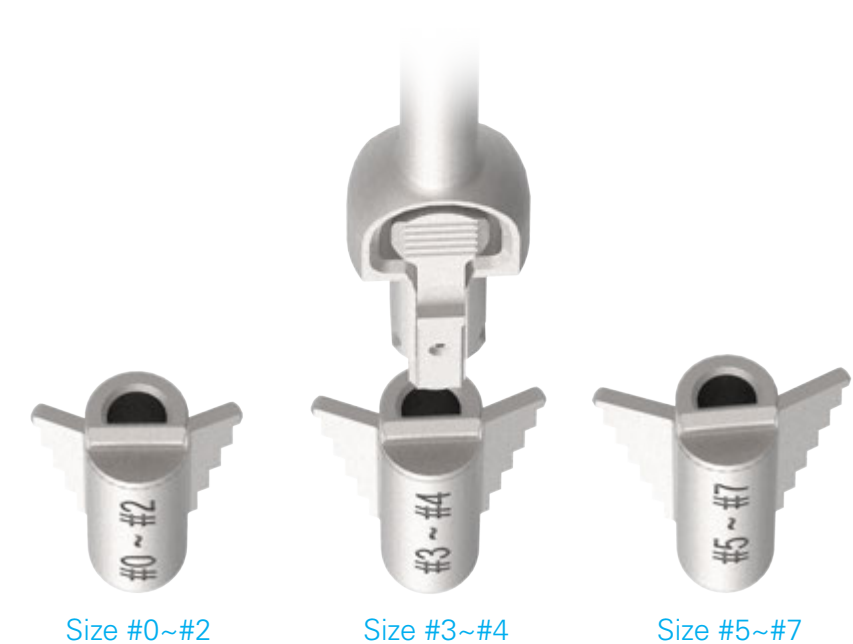


Tibial Punch



Tibial Punch Handle

With Reusable Trials



Instruments



Tibial Punch Guide



Slotted Hammer



Head Pin

J.Onset Patellar Preparation

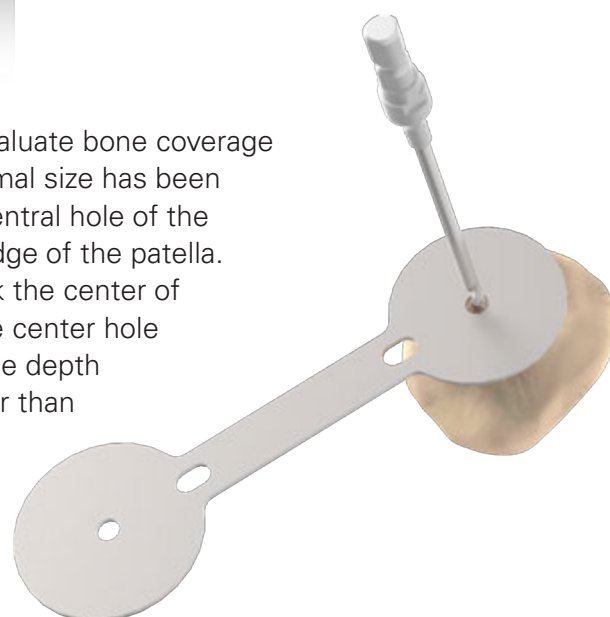
Patella Sizing and Bone Resection

Place the knee in full extension and evert the patella with caution. Remove the excess cartilage and osteophytes adjacent to the border of patella. Use the **Caliper** to measure the anterior-posterior dimension of the patella.



Use the **Onset Patella Sizing Rings** to evaluate bone coverage and select the optimal size. Once the optimal size has been selected, set positioning by locating the central hole of the sizing ring with the center of the medial ridge of the patella. While holding the sizing ring in place, mark the center of the implant by carefully drilling through the center hole of the sizing ring with the **3.2 mm Drill**. The depth of the drilled hole should be slightly deeper than the thickness of the implant size chosen.

Onset Patellar Sizing Ring Diameter:
26,29,32,35,38,41,44 mm



Instruments



Caliper



Onset Patella Sizing Ring

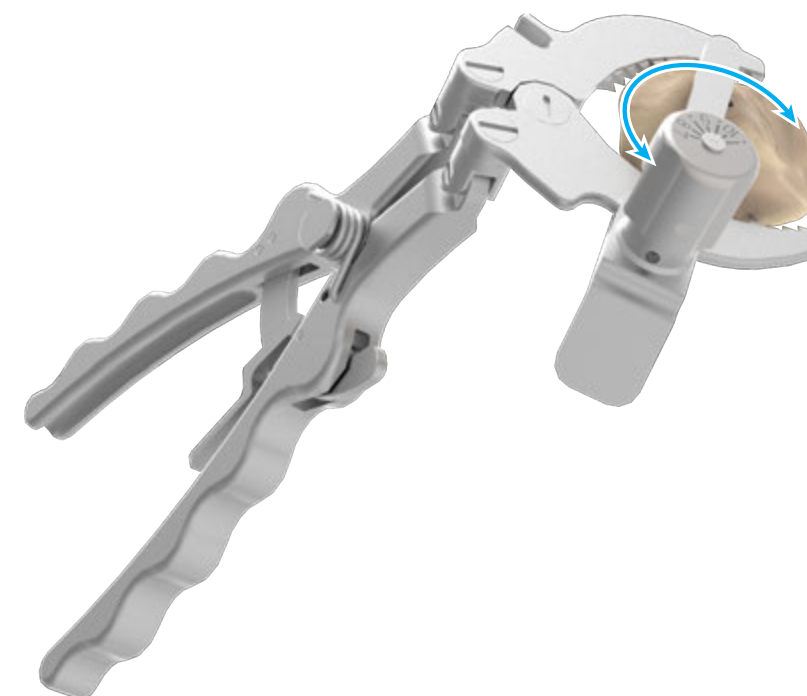


3.2 mm Drill

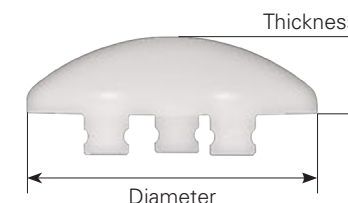
J.Onset Patellar Preparation

The **Patella Stylus** can be attached to the **Onset Patellar Resection Guide** to indicate proper resection from the highest point of patella. Rotate the quick dial on the **Patella Stylus** to select the desired resection that corresponds to the thickness of the implant.

Grasp the patella firmly with the jaws of the resection guide.



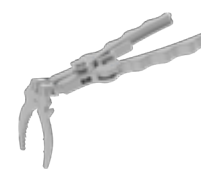
Onset Patellar Component



Size	XS	S	M	L	XL	XXL	EL
Thickness	7	8	8.5	9	9.5	10	10.5
Diameter	26	29	32	35	38	41	44

Unit:mm

Instruments



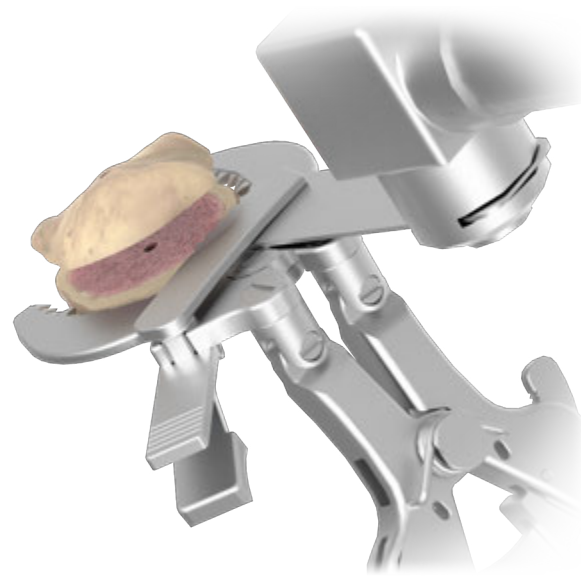
Onset Patellar Resection Guide



Patella Stylus

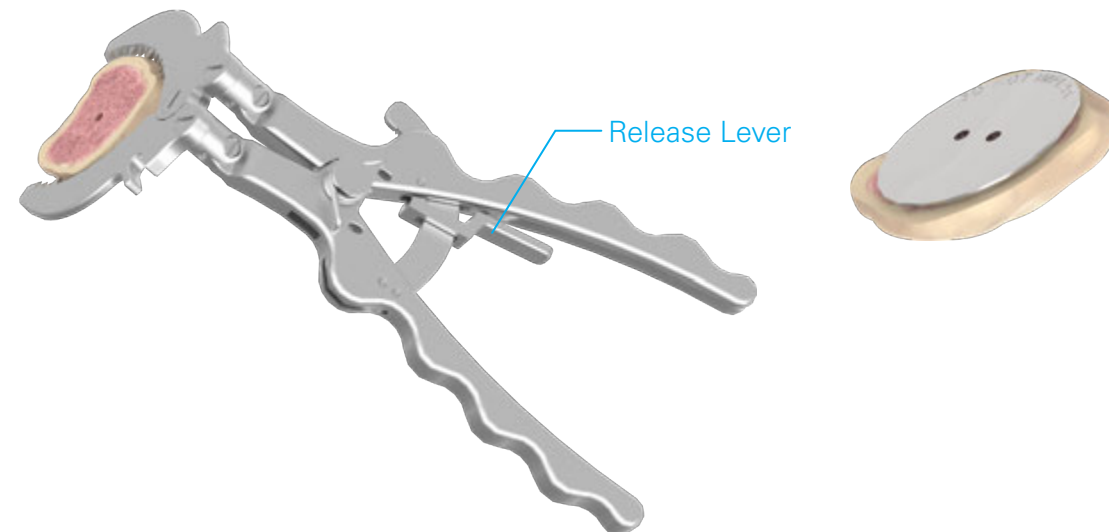
J.Onset Patellar Preparation

The resection can be performed with or without the **Slot Attachment**.

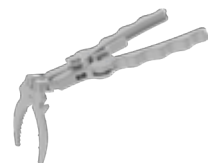


Disengage the resection guide by pressing the release lever.

If necessary, place an appropriate size **Patella Protector** to temporarily seal the bone bed.



Instruments



Onset Patellar Resection Guide



Slot Attachment

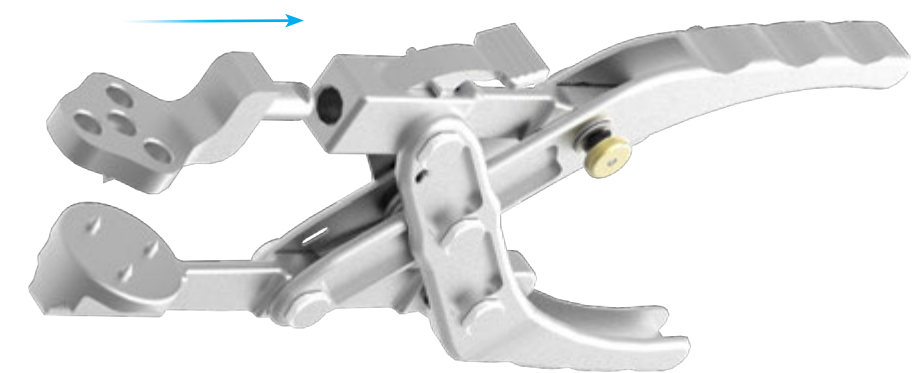


Patella Protector

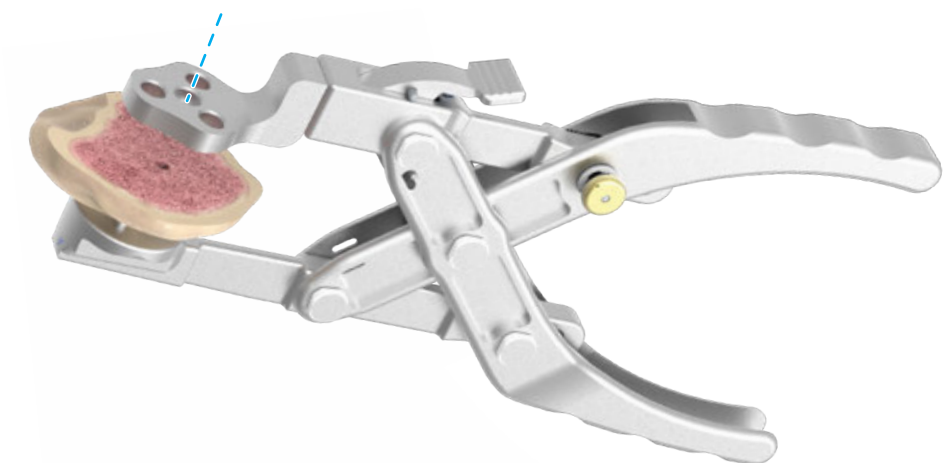
J.Onset Patellar Preparation

Patellar Preparation and Trialing

Assemble the **Onset Patellar Drill Guide** to the **Patellar Clamp**.



Align the center hole of the drill guide with the pre-drilled hole. Secure the clamp to the patella by depressing the handles on the clamp.



Instruments



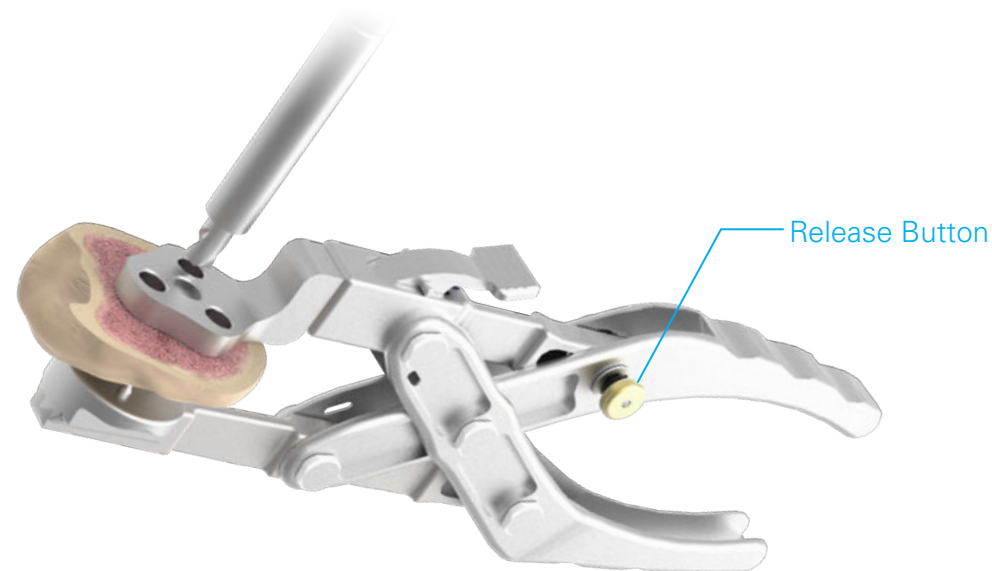
Onset Patellar Drill Guide



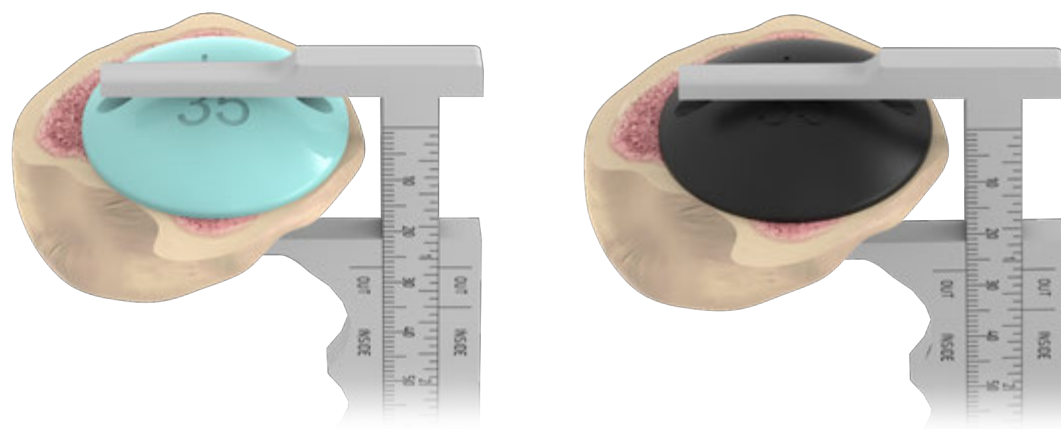
Patellar Clamp

J. Onset Patellar Preparation

Drill three peg holes with the **Onset Patellar Peg Drill** (Diameter 5.5 mm).
Release the clamp by pressing the release button.



Place the **Onset Patellar Trial** in place and confirm the restored patellar AP thickness.



Instruments



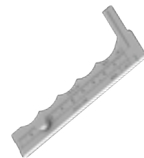
Onset Patellar
Drill Guide



Patellar Clamp



Onset Patellar
Peg Drill



Caliper



MDT
Onset Patellar
Trial Set



Reusable
Onset Patellar
Trial

K. Inset Patellar Preparation

Patella Sizing and Bone Resection

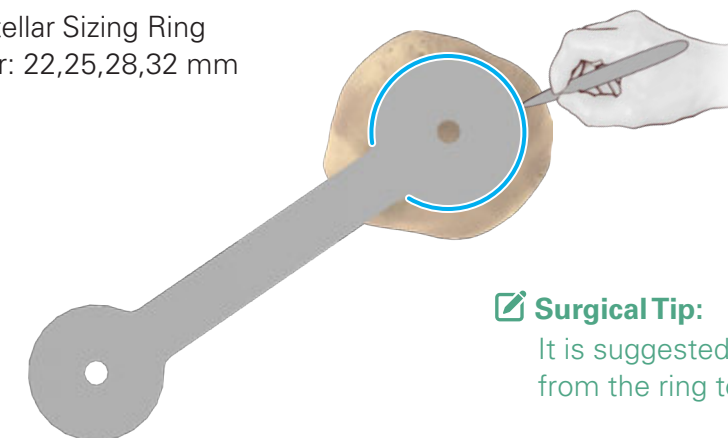
Place the knee in full extension and evert the patella with caution. Remove the excess cartilage and osteophytes adjacent to the border of patella.

Use the **Caliper** to measure the anterior-posterior dimension of the patella.



Use the **Inset Patellar Sizing Rings** to evaluate bone coverage and select the optimal size. Once the optimal size has been selected, set positioning by locating the central hole of the sizing ring with the center of the medial ridge of the patella. While holding the sizing ring in place, mark the outer border of the selected sizing ring.

Inset Patellar Sizing Ring
Diameter: 22,25,28,32 mm



Surgical Tip:

It is suggested to leave at least 2 mm from the ring to the border of the patella.

Instruments



Caliper



Inset Patellar Sizing Ring

K.Inset Patellar Preparation

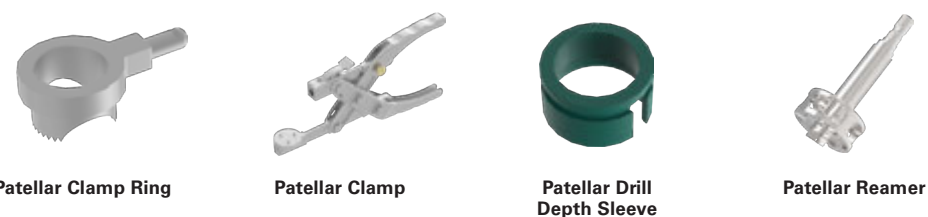
Inset Patellar Reaming Depth and Pilot Hole

Attach the appropriate size **Patellar Clamp Ring** to the **Patellar Clamp**.



Align the **Patellar Clamp Ring** on the patella clamp to the previously marked position and secure to the patella by depressing the handles on the clamp. Choose the **Patellar Drill Depth Sleeve** that corresponds to the selected patella size and place over the clamp ring. Insert the **Patella Reamer** into the Patella ring until the tip is touching the patella.

Instruments



Patellar Clamp Ring

Patellar Clamp

Patellar Drill Depth Sleeve

Patellar Reamer

K.Inset Patellar Preparation

Use the **Screwdriver, Hex 5** to assemble the **Patellar Reamer Stopper** onto the **Patellar Reamer** with the stopper seated on the depth sleeve. This will ensure the drill depth of the reamer equals the patellar component thickness.

Remove the **Patellar Depth Sleeve** and the **Patella Reamer**, leaving the **Patellar Reamer Stopper** attached to the reamer.



Insert the **Patellar Drill Guide** that corresponds to the selected **Patellar Clamp Ring**. Advance the **Patellar Drill** (Diameter 9.45 mm) and create a pilot hole for the **Patellar Reamer**.

Instruments



Patellar Reamer Stopper

Screwdriver, Hex 5

Patellar Drill Depth Sleeve

Patellar Reamer

Patellar Drill Guide

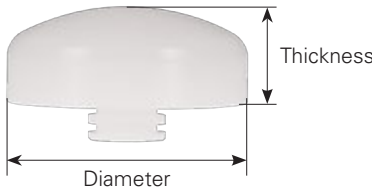
Patellar Drill

K.Inset Patellar Preparation

Re-insert the **Patellar Reamer** into the **Patellar Clamp Ring** and ream out the proper depth of bone to create the inset bone bed.

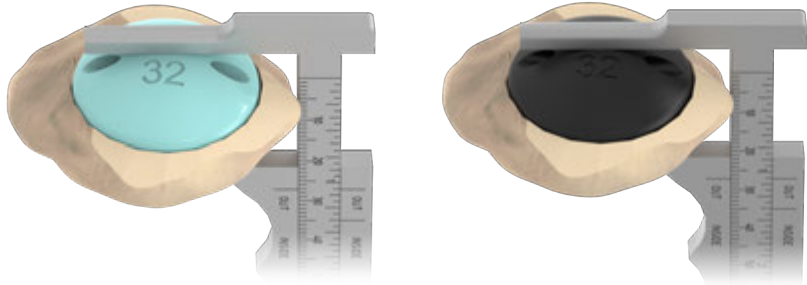
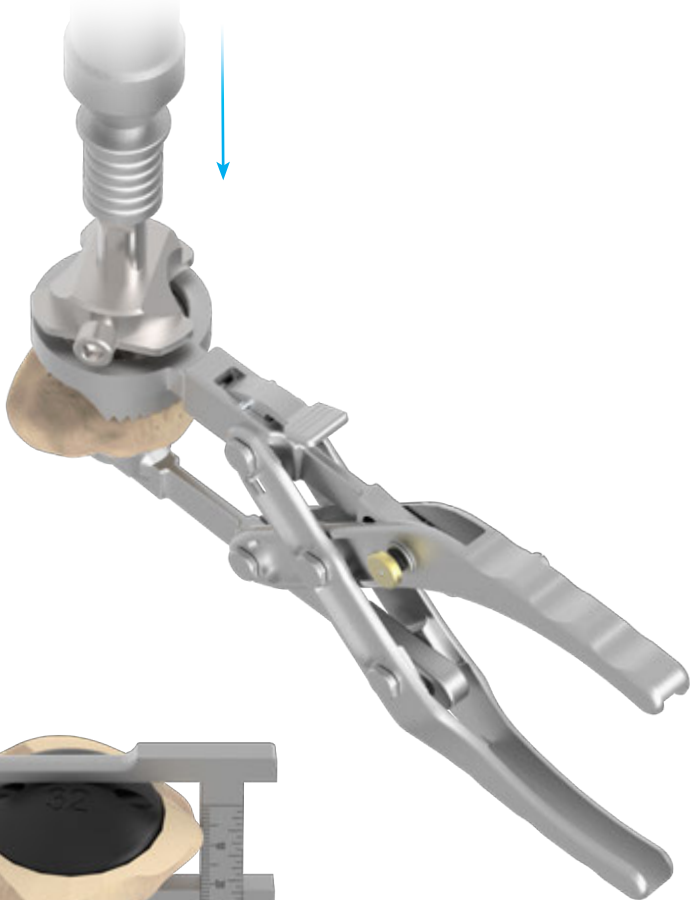
Note:
A minimum bone thickness of 10 mm should be maintained. For a thinner patella, the position of the **Patellar Reamer Stopper** on **Patella Reamer** may need to be manually adjusted to ensure sufficient bone bed thickness.

Inset Patellar Component



Size	S	M	L	XL
Thickness	8	10	10	10
Diameter	22	25	28	32

Unit:mm



Place the **Inset Patellar Trial** in place and confirm the restored patellar AP thickness.

Instruments



Patellar Reamer

Patellar Reamer Stopper

Patellar Clamp Ring

Patellar Clamp

Reusable Inset Patellar Trial

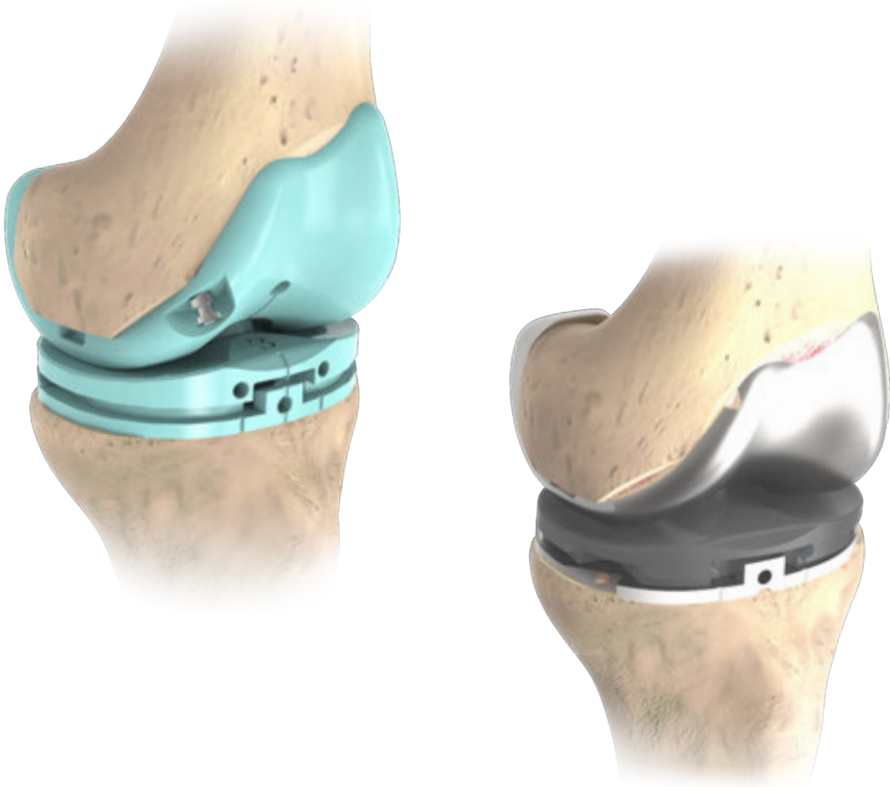
Caliper

MDT Inset Patellar Trial Set

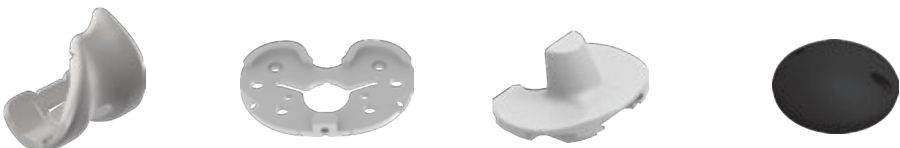
L.Implantation

Final Trial Reduction

Affix the **Patellar Trial**, **Femoral Trial**, **Tibial Baseplate Trial**, and **Tibial Insert Trial** to the corresponding resected bony surfaces. Test for joint laxity and range of motion. Observe how the muscles and ligaments react in extension and flexion. Manage the soft tissue tension to ensure ideal joint stability and mobility. Remove all trials and clean the resected bone surfaces.



Instruments



PS Femoral Trial or CR Femoral Trial

Tibial Baseplate Trial

PSTibial Insert Trial or CRTibial Insert Trial

Onset Patellar Trial or Inset Patellar Trial

L. Implantation

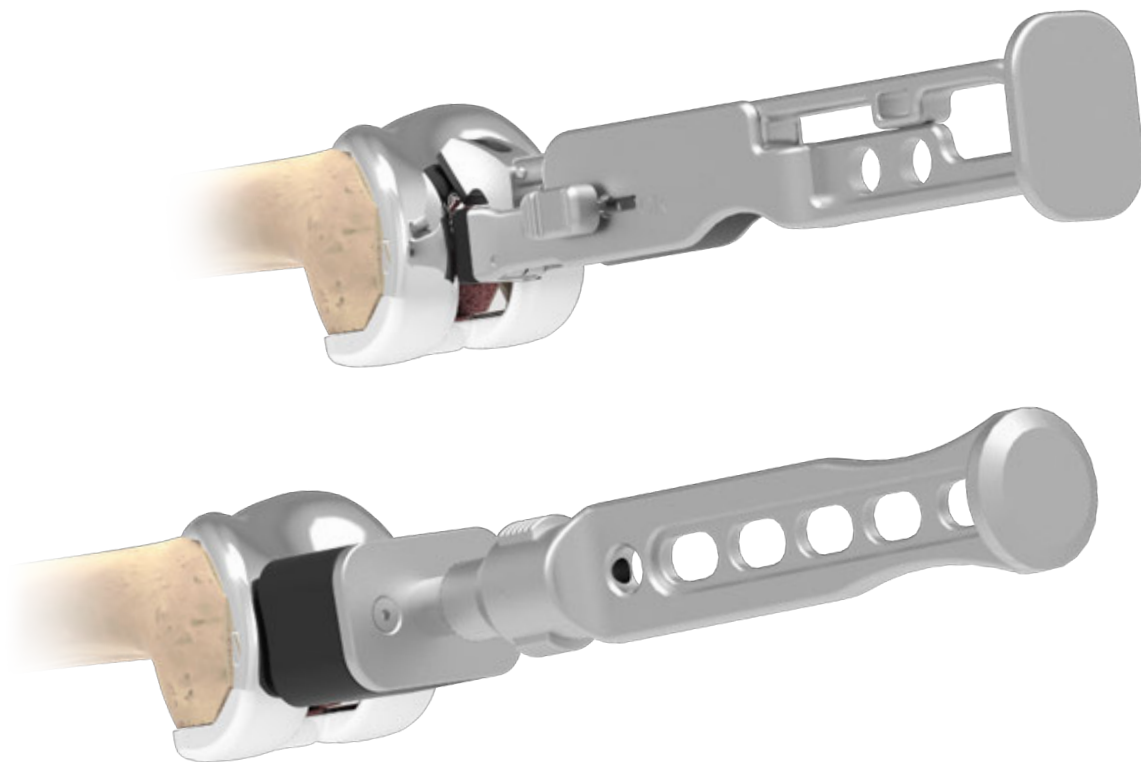
Femoral Component Implantation

Mix and prepare bone cement in the usual fashion for the femoral component and femoral bone surface. Attach the femoral component to the **Femoral Driver** and press against the prepared femoral bone surface until the component is flush with the bone.

Attach the **Femoral Impactor** to the **Modular Handle** and strike the femoral component to firmly seat it in place against the femoral bone surface. Use an instrument such as a curette to remove any excess, extruded cement.

⚠ Caution:

The Femoral Driver is designed to position the implant and trial, not for final impaction. Please **impact gently** to avoid instrument breakage.



Instruments



Femoral Driver



Femoral Impactor



Modular Handle

L. Implantation

Tibial Baseplate Component Implantation

Mix and prepare bone cement in the usual fashion for the tibial component and tibial bone surface.

Manually insert the tibial component into position on the prepared tibial surface.

Attach the **Tibial Baseplate Impactor** to the **Modular Handle** and strike the tibial component to firmly seat it in place against the tibial bone surface.

Use an instrument such as a curette to remove any excess, extruded cement.



Instruments



Tibial Baseplate Impactor



Modular Handle

L. Implantation

Patella Component Implantation

Mix and prepare bone cement in the usual fashion for the patella component and patella bone surface.

Manually insert the patella component into position on the prepared patella surface.

Attach the **Patella Cement Clamp Adapter** to the **Patella Clamp** and depress the clamp to firmly seat the patella component in place against the patellar bone surface. Leave the clamp in place until the cement is set.

Use an instrument such as a curette to remove any excess, extruded cement.



Instruments



Patellar Cement Clamp Adapter



Patellar Clamp

L. Implantation

Tibial Insert Implantation

Prior to the insertion of the final Tibial Insert, place the appropriate insert trial onto the baseplate to verify proper insert thickness and joint stability.

It is recommended to initially introduce the final tibial insert by hand onto the Tibial Baseplate. Once the initial engagement of the locking mechanism is verified, use the **Universal Impactor** to fully seat the Insert. All areas of the assembly are then visually assessed for complete seating.



Instruments



Universal Impactor



Modular Handle



Modular Handle

L. Implantation

APT Component Implantation

Mix and prepare bone cement in the usual fashion for the All Poly Tibial (APT) component and tibial bone surface.

Manually insert the APT component into position on the prepared tibial surface.

Attach the **APT Impactor** to the **Modular Handle** and strike the APT component to firmly seat it in place against the tibial bone surface.

Use an instrument such as a curette to remove any excess, extruded cement.



Instruments



APT Impactor



Modular Handle

Appendix

Preparing Augment and Extension Stem for CMA Baseplate

(with Optional CMA Augment and Extension Stem Tray)

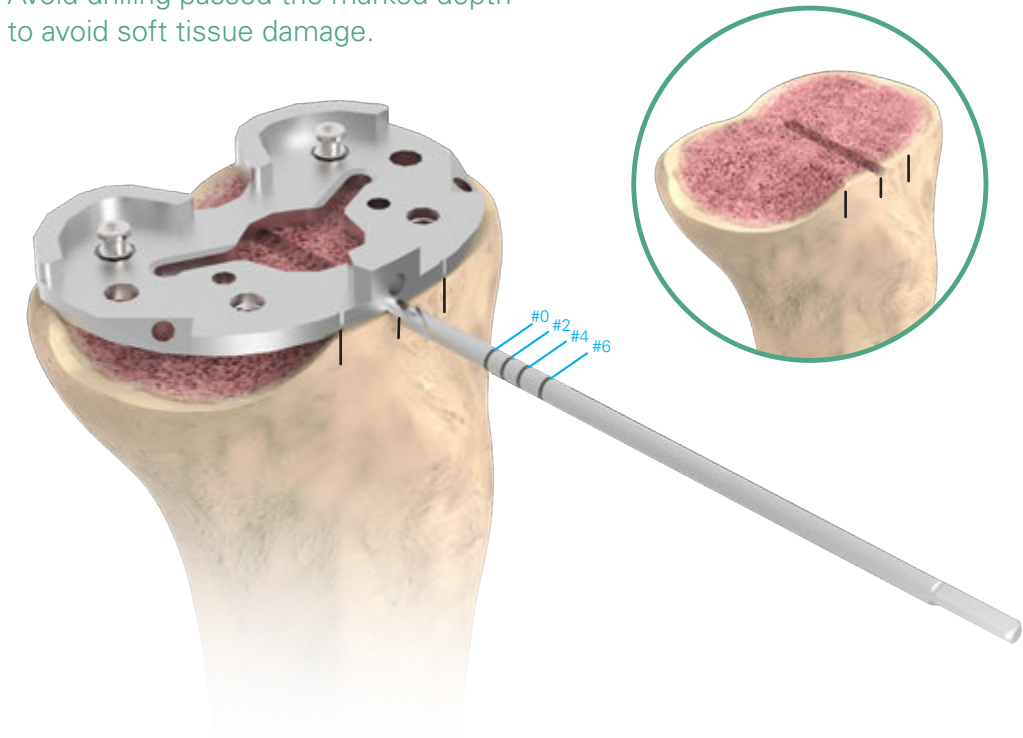
The U2 Knee System incorporates an optional CMA instrument tray to address moderate tibial defects. Use this Appendix in place of Section I. Proximal Tibial Preparation listed earlier in this guide

Align the **Tibial Baseplate Trial** with resected tibia surface and secure the baseplate trial to the proximal tibia with two **Head Pins** according to the rotational orientation.

Use the **CMA 3.2 mm Drill** to drill carefully through the center tunnel below the **Tibial Baseplate Trial**. Stop drilling when the marked depth according to desired size of tibial baseplate has been reached. A center groove on the proximal tibia plane is formed as a vertical resection reference.

! Caution:

Avoid drilling passed the marked depth to avoid soft tissue damage.



Instruments



Tibial Baseplate Trial



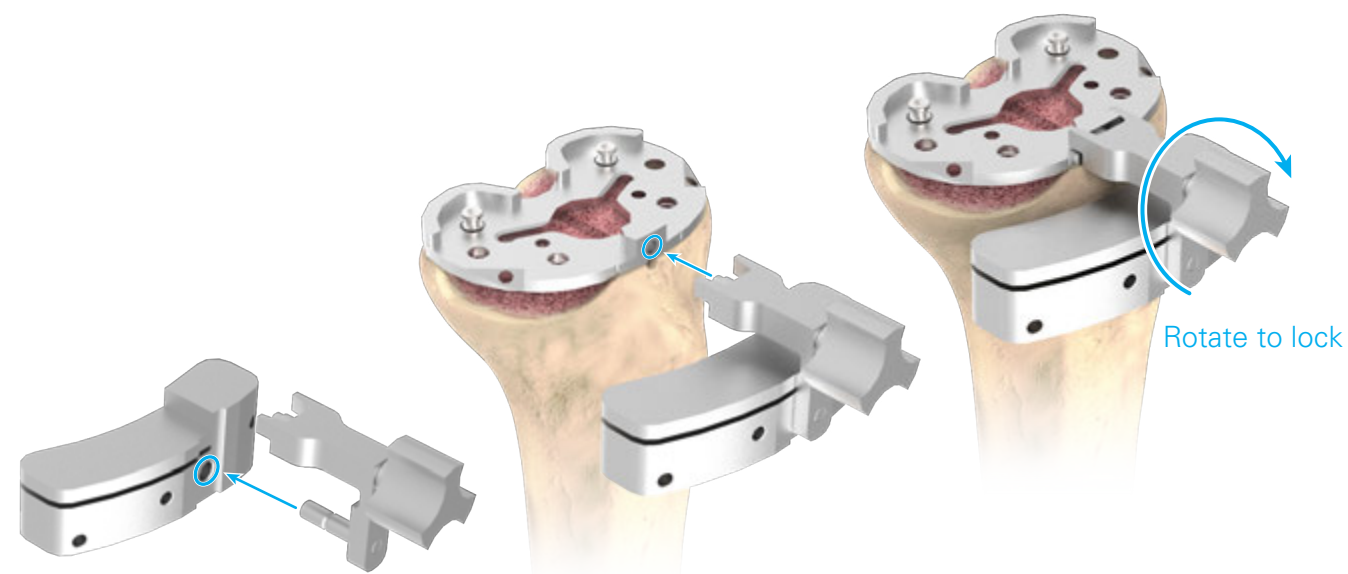
Head Pin



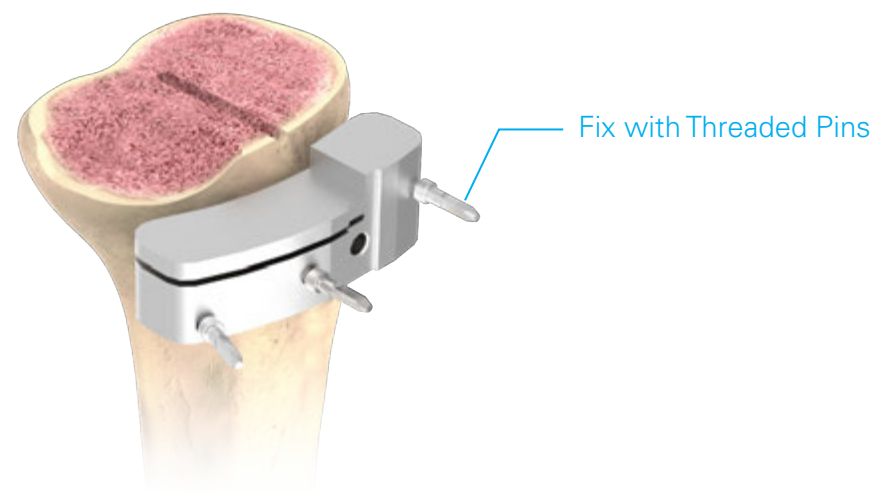
CMA 3.2 mm Drill

Appendix

Assemble the appropriate **Tibial Augment Resection Guide** (left or right) and the **Tibial Augment Resection Guide Adapter** to the baseplate trial.



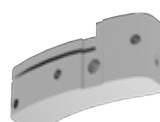
Apply the **Threaded Pins** to secure the **Tibial Augment Resection Guide** to the tibia. Then, remove the **Tibial Augment Resection Guide Adapter** and the **Tibial Baseplate Trial**.



Instruments

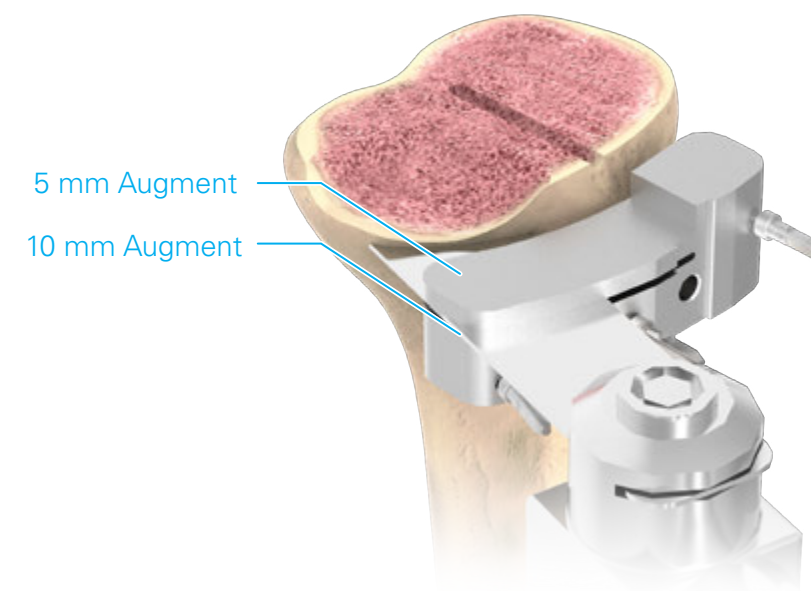


Tibial Baseplate Trial

Threaded Pin
30 mm / 50 mmTibial Augment
Resection GuideTibial Augment
Resection Guide
Adapter

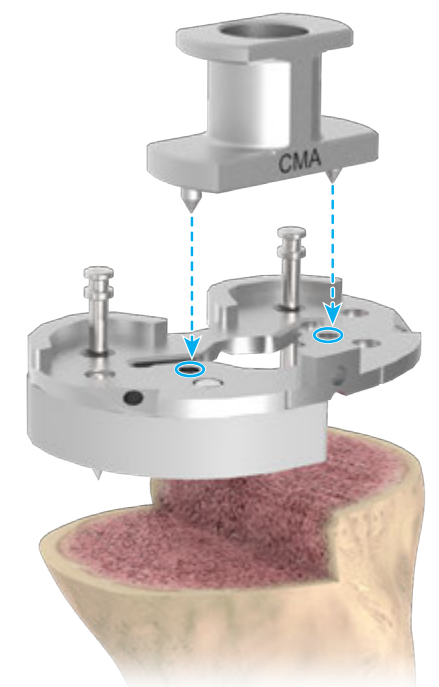
Appendix

Perform the horizontal resection by referencing the upper plane for 5 mm augment or the slot for 10 mm augment. Finish the vertical resection referring to the center groove on the top of proximal tibia plane with osteotome or reciprocating saw.



Assemble the desired **Tibial Augment Trial** to the backside of the **Tibial Baseplate Trial** and fix the trial combination onto the resected tibial surface with two **Head Pins**.

Then, attach the **Tibial Drill Guide, CMA** to the baseplate trial.



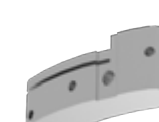
Instruments



Tibial Baseplate Trial



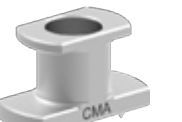
Threaded Pin

Tibial Augment
Resection Guide

Tibial Augment Trial



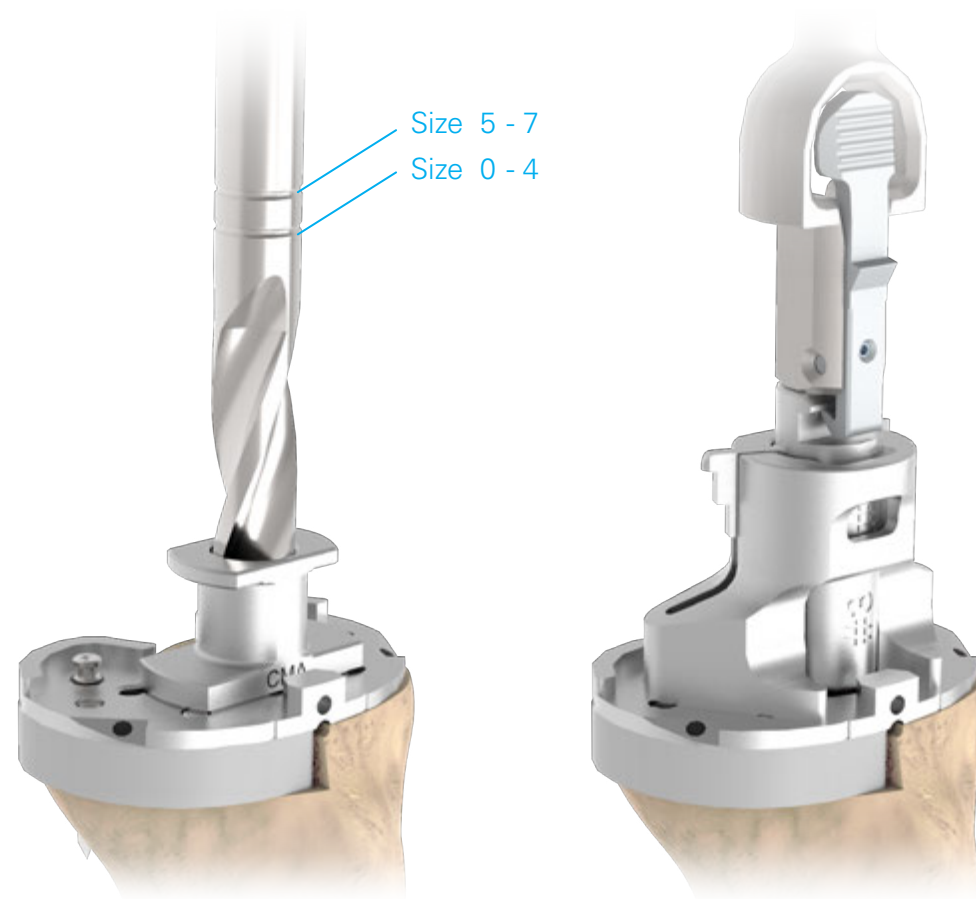
Head Pin

Tibial Drill Guide,
CMA

Appendix

To ensure the stability of tibial component, an extended 30 mm distal stem for the implant is recommended. Advance the **Straight Stem Drill** through the **Tibial Drill Guide, CMA** until the depth reaches the laser mark of the "0-4" or "5-7" line according to the selected size of the baseplate trial.

Remove the drill and drill guide. Resume Technique steps in Section I. Proximal Tibial Preparation and begin with selection of the correct **Tibial Punch**.



Instruments



Straight Stem Drill



Tibial Drill Guide, CMA



Tibial Punch



Tibial Punch Handle



Tibial Punch Guide

Appendix

Assemble the **Screwdriver Adapter** to the **Driver Handle**, then fasten the determined augment onto the baseplate (For CMA baseplate).

Unscrew the plug at the bottom of the baseplate via **Screwdriver, Hex 5**. Solidly tap the stem onto the baseplate with the **Stem Impactor** to ensure the stem is firmly set.

Continue with the implant fixation.



Instruments



Screwdriver Adapter



Driver Handle



Screwdriver, Hex 5



Stem Impactor

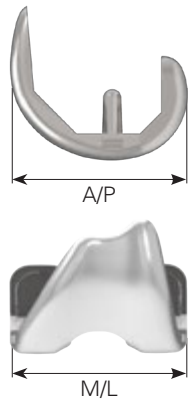


Slotted Hammer

Order Information

U2 Femoral Component

Special Order Items
Items requires Modular Disposable Trials



	CR		CR (Porous)	
	Left	Right	Left	Right
#1	2103-1310	2103-1410	2103-1110	2103-1210
#1.5	2103-1315	2103-1415	2103-1115	2103-1215
#2	2103-1320	2103-1420	2103-1120	2103-1220
#2.5	2103-1325	2103-1425	2103-1125	2103-1225
#3	2103-1330	2103-1430	2103-1130	2103-1230
#3.5	2103-1335	2103-1435	2103-1135	2103-1235
#4	2103-1340	2103-1440	2103-1140	2103-1240
#4.5	2103-1345	2103-1445	2103-1145	2103-1245
#5	2103-1350	2103-1450	2103-1150	2103-1250
#5.5	2103-1355	2103-1455	2103-1155	2103-1255
#6	2103-1360	2103-1460	2103-1160	2103-1260
#6.5	2103-1365	2103-1465	2103-1165	2103-1265
#7	2103-1370	2103-1470	2103-1170	2103-1270

	PS	
	Left	Right
#1	2103-3110	2103-3210
#1.5	2103-3115	2103-3215
#2	2103-3120	2103-3220
#2.5	2103-3125	2103-3225
#3	2103-3130	2103-3230
#3.5	2103-3135	2103-3235
#4	2103-3140	2103-3240
#4.5	2103-3145	2103-3245
#5	2103-3150	2103-3250
#5.5	2103-3155	2103-3255
#6	2103-3160	2103-3260
#6.5	2103-3165	2103-3265
#7	2103-3170	2103-3270

	A/P	M/L
#1	52	56
#1.5	54	58
#2	56	60
#2.5	58	62
#3	60	64
#3.5	62	66
#4	64	68
#4.5	66	70
#5	68	72
#5.5	70	74
#6	72	76
#6.5	74	78
#7	76	80

Unit:mm

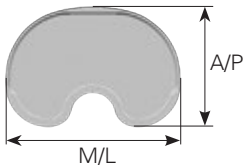
U2 Tibial Baseplate



Cemented	
#1	2203-3010
#2	2203-3020
#3	2203-3030
#4	2203-3040
#5	2203-3050
#6	2203-3060



CMA	
#0	2203-3200
#1	2203-3210
#2	2203-3220
#3	2203-3230
#4	2203-3240
#5	2203-3250
#6	2203-3260
#7	2203-3270



	A/P	M/L
#0	39.5	60
#1	42	63
#2	44.5	66
#3	47	69
#4	49.5	72
#5	52.5	76
#6	55.5	80
#7	58.5	84

Unit:mm

Order Information

Tibial Insert (CR)

Special Order Items



CR		#0	#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2303-1201	2303-1211	2303-1221	2303-1231	2303-1241	2303-1251	2303-1261	2303-1271
	10 mm	2303-1206	2303-1216	2303-1226	2303-1236	2303-1246	2303-1256	2303-1266	2303-1276
	11 mm	2303-1202	2303-1212	2303-1222	2303-1232	2303-1242	2303-1252	2303-1262	2303-1272
	12 mm	2303-1207	2303-1217	2303-1227	2303-1237	2303-1247	2303-1257	2303-1267	2303-1277
	13 mm	2303-1203	2303-1213	2303-1223	2303-1233	2303-1243	2303-1253	2303-1263	2303-1273
	14 mm	2303-1208	2303-1218	2303-1228	2303-1238	2303-1248	2303-1258	2303-1268	2303-1278
	15 mm	2303-1204	2303-1214	2303-1224	2303-1234	2303-1244	2303-1254	2303-1264	2303-1274
	16 mm	2303-1209	2303-1219	2303-1229	2303-1239	2303-1249	2303-1259	2303-1269	2303-1279
	17 mm	2303-1200	2303-1210	2303-1220	2303-1230	2303-1240	2303-1250	2303-1260	2303-1270
	18 mm	2303-1205	2303-1215	2303-1225	2303-1235	2303-1245	2303-1255	2303-1265	2303-1275

XCR		#0	#1	#2	#3	#4	#5	#6	#7
XPE	9 mm	2303-1601	2303-1611	2303-1621	2303-1631	2303-1641	2303-1651	2303-1661	2303-1671
	10 mm	2303-1606	2303-1616	2303-1626	2303-1636	2303-1646	2303-1656	2303-1666	2303-1676
	11 mm	2303-1602	2303-1612	2303-1622	2303-1632	2303-1642	2303-1652	2303-1662	2303-1672
	12 mm	2303-1607	2303-1617	2303-1627	2303-1637	2303-1647	2303-1657	2303-1667	2303-1677
	13 mm	2303-1603	2303-1613	2303-1623	2303-1633	2303-1643	2303-1653	2303-1663	2303-1673
	14 mm	2303-1608	2303-1618	2303-1628	2303-1638	2303-1648	2303-1658	2303-1668	2303-1678
	15 mm	2303-1604	2303-1614	2303-1624	2303-1634	2303-1644	2303-1654	2303-1664	2303-1674
	16 mm	2303-1609	2303-1619	2303-1629	2303-1639	2303-1649	2303-1659	2303-1669	2303-1679
	17 mm	2303-1600	2303-1610	2303-1620	2303-1630	2303-1640	2303-1650	2303-1660	2303-1670
	18 mm	2303-1605	2303-1615	2303-1625	2303-1635	2303-1645	2303-1655	2303-1665	2303-1675



E-XCR		#0	#1	#2	#3	#4	#5	#6	#7
E-XPE	9 mm	2303-1801	2303-1811	2303-1821	2303-1831	2303-1841	2303-1851	2303-1861	2303-1871
	10 mm	2303-1806	2303-1816	2303-1826	2303-1836	2303-1846	2303-1856	2303-1866	2303-1876
	11 mm	2303-1802	2303-1812	2303-1822	2303-1832	2303-1842	2303-1852	2303-1862	2303-1872
	12 mm	2303-1807	2303-1817	2303-1827	2303-1837	2303-1847	2303-1857	2303-1867	2303-1877
	13 mm	2303-1803	2303-1813	2303-1823	2303-1833	2303-1843	2303-1853	2303-1863	2303-1873
	14 mm	2303-1808	2303-1818	2303-1828	2303-1838	2303-1848	2303-1858	2303-1868	2303-1878
	15 mm	2303-1804	2303-1814	2303-1824	2303-1834	2303-1844	2303-1854	2303-1864	2303-1874
	16 mm	2303-1809	2303-1819	2303-1829	2303-1839	2303-1849	2303-1859	2303-1869	2303-1879
	17 mm	2303-1800	2303-1810	2303-1820	2303-1830	2303-1840	2303-1850	2303-1860	2303-1870
	18 mm	2303-1805	2303-1815	2303-1825	2303-1835	2303-1845	2303-1855	2303-1865	2303-1875

Order Information

Tibial Insert (UC)



XUC		#0	#1	#2	#3	#4	#5	#6	#7
XPE	9 mm	2303-1401	2303-1411	2303-1421	2303-1431	2303-1441	2303-1451	2303-1461	2303-1471
	10 mm	2303-1406	2303-1416	2303-1426	2303-1436	2303-1446	2303-1456	2303-1466	2303-1476
	11 mm	2303-1402	2303-1412	2303-1422	2303-1432	2303-1442	2303-1452	2303-1462	2303-1472
	12 mm	2303-1407	2303-1417	2303-1427	2303-1437	2303-1447	2303-1457	2303-1467	2303-1477
	13 mm	2303-1403	2303-1413	2303-1423	2303-1433	2303-1443	2303-1453	2303-1463	2303-1473
	14 mm	2303-1408	2303-1418	2303-1428	2303-1438	2303-1448	2303-1458	2303-1468	2303-1478
	15 mm	2303-1404	2303-1414	2303-1424	2303-1434	2303-1444	2303-1454	2303-1464	2303-1474
	16 mm	2303-1409	2303-1419	2303-1429	2303-1439	2303-1449	2303-1459	2303-1469	2303-1479
	17 mm	2303-1400	2303-1410	2303-1420	2303-1430	2303-1440	2303-1450	2303-1460	2303-1470
	18 mm	2303-1405	2303-1415	2303-1425	2303-1435	2303-1445	2303-1455	2303-1465	2303-1475



E-XUC		#0	#1	#2	#3	#4	#5	#6	#7
E-XPE	9 mm	2303-1701	2303-1711	2303-1721	2303-1731	2303-1741	2303-1751	2303-1761	2303-1771
	10 mm	2303-1706	2303-1716	2303-1726	2303-1736	2303-1746	2303-1756	2303-1766	2303-1776
	11 mm	2303-1702	2303-1712	2303-1722	2303-1732	2303-1742	2303-1752	2303-1762	2303-1772
	12 mm	2303-1707	2303-1717	2303-1727	2303-1737	2303-1747	2303-1757	2303-1767	2303-1777
	13 mm	2303-1703	2303-1713	2303-1723	2303-1733	2303-1743	2303-1753	2303-1763	2303-1773
	14 mm	2303-1708	2303-1718	2303-1728	2303-1738	2303-1748	2303-1758	2303-1768	2303-1778
	15 mm	2303-1704	2303-1714	2303-1724	2303-1734	2303-1744	2303-1754	2303-1764	2303-1774
	16 mm	2303-1709	2303-1719	2303-1729	2303-1739	2303-1749	2303-1759	2303-1769	2303-1779
	17 mm	2303-1700	2303-1710	2303-1720	2303-1730	2303-1740	2303-1750	2303-1760	2303-1770
	18 mm	2303-1705	2303-1715	2303-1725	2303-1735	2303-1745	2303-1755	2303-1765	2303-1775

Order Information

Tibial Insert (PS)



PS		#0	#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2303-3001	2303-3011	2303-3021	2303-3031	2303-3041	2303-3051	2303-3061	2303-3071
	10 mm	2303-3006	2303-3016	2303-3026	2303-3036	2303-3046	2303-3056	2303-3066	2303-3076
	11 mm	2303-3002	2303-3012	2303-3022	2303-3032	2303-3042	2303-3052	2303-3062	2303-3072
	12 mm	2303-3007	2303-3017	2303-3027	2303-3037	2303-3047	2303-3057	2303-3067	2303-3077
	13 mm	2303-3003	2303-3013	2303-3023	2303-3033	2303-3043	2303-3053	2303-3063	2303-3073
	14 mm	2303-3008	2303-3018	2303-3028	2303-3038	2303-3048	2303-3058	2303-3068	2303-3078
	15 mm	2303-3004	2303-3014	2303-3024	2303-3034	2303-3044	2303-3054	2303-3064	2303-3074
	16 mm	N/A	2303-3019	2303-3029	2303-3039	2303-3049	2303-3059	2303-3069	2303-3079
	17 mm	N/A	2303-3010	2303-3020	2303-3030	2303-3040	2303-3050	2303-3060	2303-3070
	18 mm	N/A	2303-3015	2303-3025	2303-3035	2303-3045	2303-3055	2303-3065	2303-3075

XPS		#0	#1	#2	#3	#4	#5	#6	#7
XPE	9 mm	2303-3601	2303-3611	2303-3621	2303-3631	2303-3641	2303-3651	2303-3661	2303-3671
	10 mm	2303-3606	2303-3616	2303-3626	2303-3636	2303-3646	2303-3656	2303-3666	2303-3676
	11 mm	2303-3602	2303-3612	2303-3622	2303-3632	2303-3642	2303-3652	2303-3662	2303-3672
	12 mm	2303-3607	2303-3617	2303-3627	2303-3637	2303-3647	2303-3657	2303-3667	2303-3677
	13 mm	2303-3603	2303-3613	2303-3623	2303-3633	2303-3643	2303-3653	2303-3663	2303-3673
	14 mm	2303-3608	2303-3618	2303-3628	2303-3638	2303-3648	2303-3658	2303-3668	2303-3678
	15 mm	2303-3604	2303-3614	2303-3624	2303-3634	2303-3644	2303-3654	2303-3664	2303-3674
	16 mm	N/A	2303-3619	2303-3629	2303-3639	2303-3649	2303-3659	2303-3669	2303-3679
	17 mm	N/A	2303-3610	2303-3620	2303-3630	2303-3640	2303-3650	2303-3660	2303-3670
	18 mm	N/A	2303-3615	2303-3625	2303-3635	2303-3645	2303-3655	2303-3665	2303-3675



E-XPS		#0	#1	#2	#3	#4	#5	#6	#7
E-XPE	9 mm	2303-3801	2303-3811	2303-3821	2303-3831	2303-3841	2303-3851	2303-3861	2303-3871
	10 mm	2303-3806	2303-3816	2303-3826	2303-3836	2303-3846	2303-3856	2303-3866	2303-3876
	11 mm	2303-3802	2303-3812	2303-3822	2303-3832	2303-3842	2303-3852	2303-3862	2303-3872
	12 mm	2303-3807	2303-3817	2303-3827	2303-3837	2303-3847	2303-3857	2303-3867	2303-3877
	13 mm	2303-3803	2303-3813	2303-3823	2303-3833	2303-3843	2303-3853	2303-3863	2303-3873
	14 mm	2303-3808	2303-3818	2303-3828	2303-3838	2303-3848	2303-3858	2303-3868	2303-3878
	15 mm	2303-3804	2303-3814	2303-3824	2303-3834	2303-3844	2303-3854	2303-3864	2303-3874
	16 mm	N/A	2303-3819	2303-3829	2303-3839	2303-3849	2303-3859	2303-3869	2303-3879
	17 mm	N/A	2303-3810	2303-3820	2303-3830	2303-3840	2303-3850	2303-3860	2303-3870
	18 mm	N/A	2303-3815	2303-3825	2303-3835	2303-3845	2303-3855	2303-3865	2303-3875

Order Information

All Poly Tibial Component



APT-CR		#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2203-1011	2203-1021	2203-1031	2203-1041	2203-1051	2203-1061	2203-1071
	11 mm	2203-1012	2203-1022	2203-1032	2203-1042	2203-1052	2203-1062	2203-1072
	13 mm	2203-1013	2203-1023	2203-1033	2203-1043	2203-1053	2203-1063	2203-1073
	15 mm	2203-1014	2203-1024	2203-1034	2203-1044	2203-1054	2203-1064	2203-1074
	18 mm	2203-1015	2203-1025	2203-1035	2203-1045	2203-1055	2203-1065	2203-1075



APT-PS		#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2203-1211	2203-1221	2203-1231	2203-1241	2203-1251	2203-1261	2203-1271
	11 mm	2203-1212	2203-1222	2203-1232	2203-1242	2203-1252	2203-1262	2203-1272
	13 mm	2203-1213	2203-1223	2203-1233	2203-1243	2203-1253	2203-1263	2203-1273
	15 mm	2203-1214	2203-1224	2203-1234	2203-1244	2203-1254	2203-1264	2203-1274
	18 mm	2203-1215	2203-1225	2203-1235	2203-1245	2203-1255	2203-1265	2203-1275



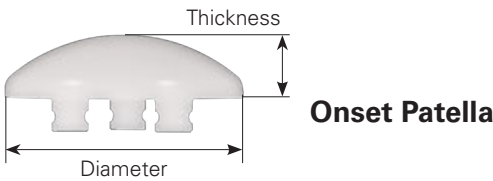
APT-UC		#1	#2	#3	#4	#5	#6	#7
UHMWPE	9 mm	2203-1411	2203-1421	2203-1431	2203-1441	2203-1451	2203-1461	2203-1471
	11 mm	2203-1412	2203-1422	2203-1432	2203-1442	2203-1452	2203-1462	2203-1472
	13 mm	2203-1413	2203-1423	2203-1433	2203-1443	2203-1453	2203-1463	2203-1473
	15 mm	2203-1414	2203-1424	2203-1434	2203-1444	2203-1454	2203-1464	2203-1474
	18 mm	2203-1415	2203-1425	2203-1435	2203-1445	2203-1455	2203-1465	2203-1475

Special Order Items

Items requires Modular Disposable Trials

Order Information

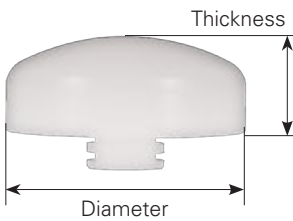
Patella Component



	XS	S	M	L	XL	XXL	EL
UHMWPE	2403-1010	2403-1020	2403-1030	2403-1040	2403-1050	2403-1060	2403-1070
XPE	2403-3210	2403-3220	2403-3230	2403-3240	2403-3250	2403-3260	2403-3270
E-XPE	2403-5210	2403-5220	2403-5230	2403-5240	2403-5250	2403-5260	2403-5270

Thickness	7	8	8.5	9	9.5	10	10.5
Diameter	26	29	32	35	38	41	44

Unit : mm



Inset Patella

	S	M	L	XL
UHMWPE	2401-1010	2401-1020	2401-1030	2401-1040
XPE	2403-3010	2403-3020	2403-3030	2403-3040
E-XPE	2403-5010	2403-5020	2403-5030	2403-5040

Thickness	8	10	10	10
Diameter	22	25	28	32

Unit : mm

Extensions (CMA)



Augment



Straight Stem

Ø14 x 30 mm
2703-5003

	#0	#1	#2	#3	#4	#5	#6	#7
5 mm	2803-5201	2803-5211	2803-5221	2803-5231	2803-5241	2803-5251	2803-5261	2803-5271
10 mm	2803-5202	2803-5212	2803-5222	2803-5232	2803-5242	2803-5252	2803-5262	2803-5272

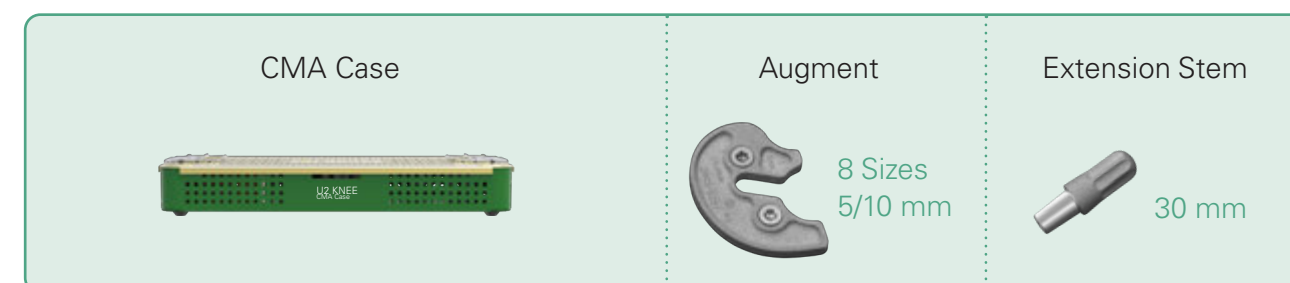
Reference
[1] Data held on file. United Orthopedic Corporation

Instrument Tray Guide with Modular Disposable Trials (MDT)

1.5 Trays with Modular Disposable Trials

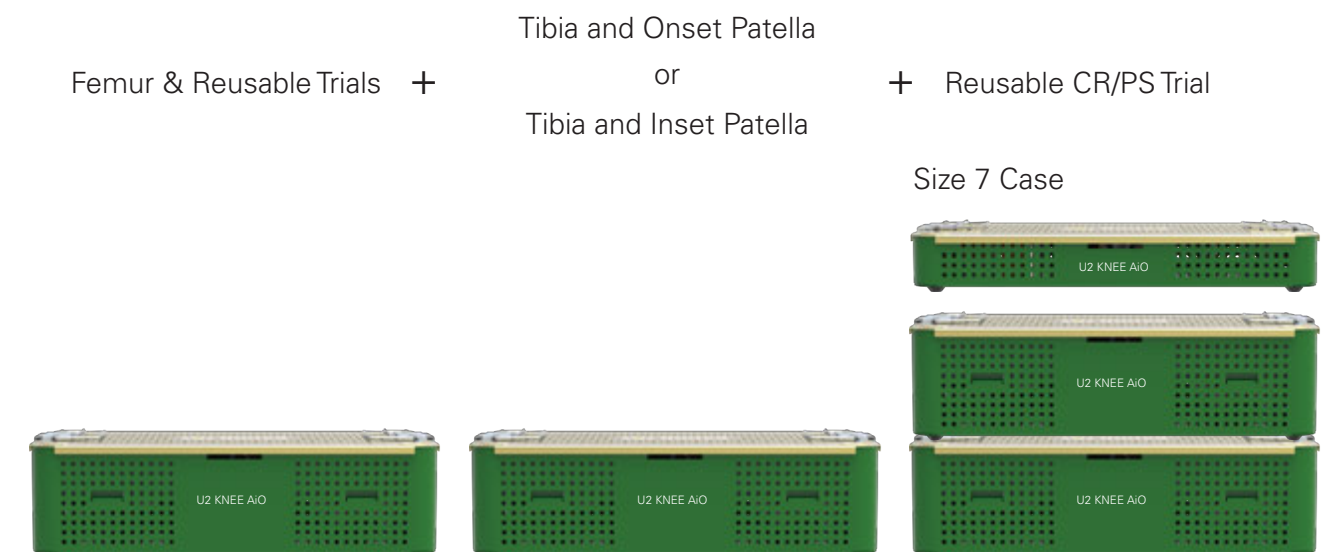


Optional: CMA Baseplate Augments/Extension Stem



Instrument Tray Guide with Reusable Trials

4 Trays with Reusable Trials





Each Step
We Care

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