ORTHO DEVELOPMENT®

Balanced Knee® System

Surgical Technique

Designing Surgeons:

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The following technique is a general guide for instrumentation of the Balanced Knee® System. It is assumed that the surgeon is already familiar with the fundamentals of total knee replacement. Each patient represents an individual case that may require modification of the technique according to the surgeon's judgment and experience.

Please see the Balanced Knee® System Instructions for Use (IFU) for intended uses, indications, device description, contraindications, precautions, warnings and potential risks associated with the Balanced Knee® System.

U.S. Federal Law restricts this device to sale by or on the order of a physician.

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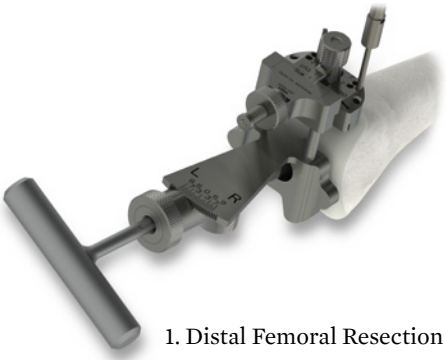
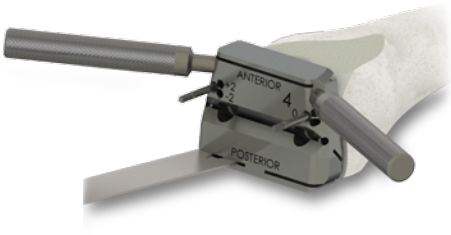
Surgical Technique Overview



1. Distal Femoral Resection

2. Femoral Sizing

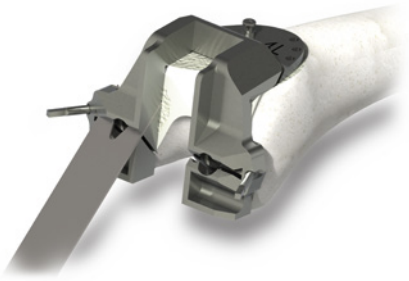


3. Anterior and Posterior Resections

4. Proximal Tibial Resection

5. Soft Tissue Balancing and Equalizing Flexion/Extension Gaps

6. Patella Preparation



7. Finishing Cuts

8. Trial Reduction

9. Tibial Keel Preparation

10. Final Implantation

Device Description

The Balanced Knee® System design is based on proven technology and has over 12 years of successful clinical use. It is offered in a wide range of sizes and options to allow the device to be anatomically specific in a variety of patients.

The Balanced Knee® System was designed with the following objectives in mind:

- Proven and reproducible clinical results
- Equalization of the flexion and extension gaps with soft tissue balancing
- Accommodates a wide range of knee deformities
- Simple and intuitive instrumentation to facilitate balancing the knee
- Easy transition to the Balanced Knee® Revision System

Preoperative Planning

TEMPLATING

Templates with a 10% magnification are provided by Ortho Development® Corporation for use with preoperative x-rays (Figure 1). Digital Templates are also available through several digital templating software providers. The templates enable the surgeon to estimate the Femoral component and Tibial Tray sizes, and to identify any unusual circumstances specific to the case at hand. The actual component sizes are determined intraoperatively by using the sizing guide and trials.

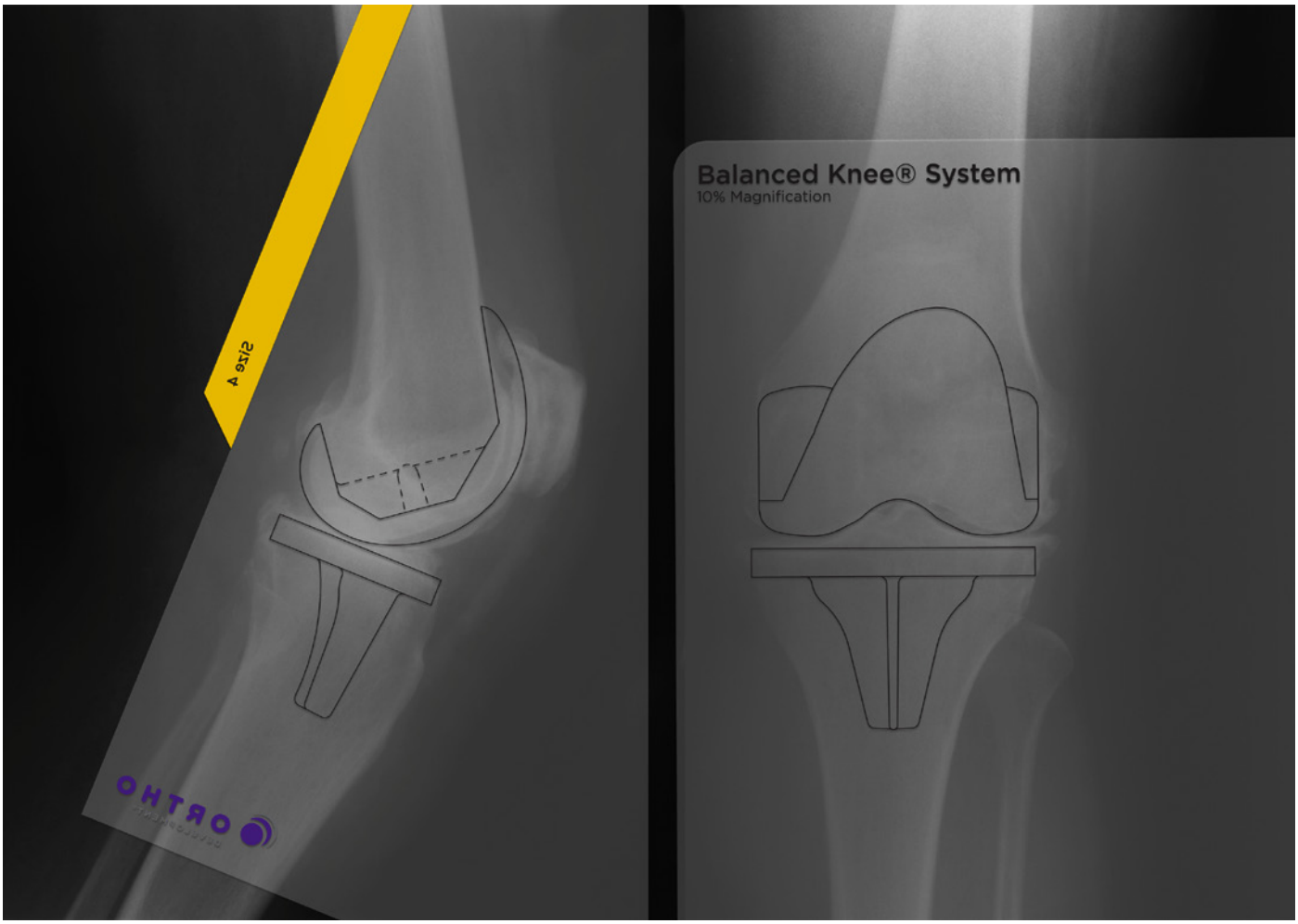


Figure 1: Template overlaid on radiograph

Exposure

A host of surgical exposures exists. This technique will illustrate a standard anterior medial parapatellar approach. As cases warrant, alternative approaches such as the trivector, lateral parapatellar, midvastus, subvastus or quad-sparing approaches may be employed.

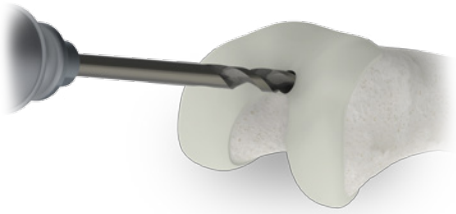


Figure 2: Entering the Medullary Canal

Entering the Medullary Canal

Use the 8mm I/M Drill to access the medullary canal. The entry point is generally located superior and just medial to the roof of the intercondylar notch (Figure 2). Make certain that the 8mm I/M drill is aligned axially to the femoral canal.

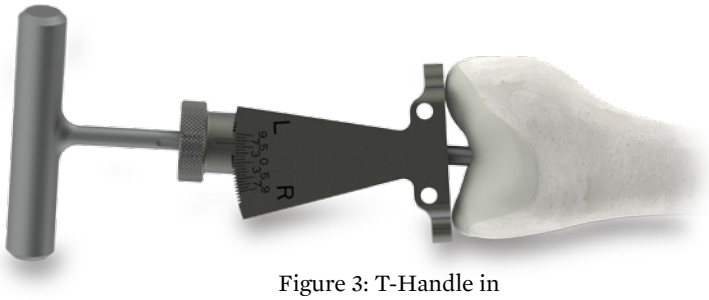


Figure 3: T-Handle in the Medullary Canal

I/M Alignment

Attach the T-Handle to the I/M Alignment Guide and insert it into the medullary canal until the I/M Alignment Guide contacts the most prominent condyle. Maintaining alignment of the I/M Alignment Guide parallel to the femoral axis in the sagittal plane during insertion will help to avoid placing the Femoral component in flexion. Set and lock the I/M Alignment Guide at the appropriate valgus angle, as determined preoperatively* (Figure 3).

The Balanced Knee® System accommodates a wide range of valgus correction. As a general rule, a valgus angle of 5° is appropriate. However, this angle may be adjusted depending on individual anatomy.

*The valgus angle is the angle between the mechanical axis and the femoral axis (Figure 4).

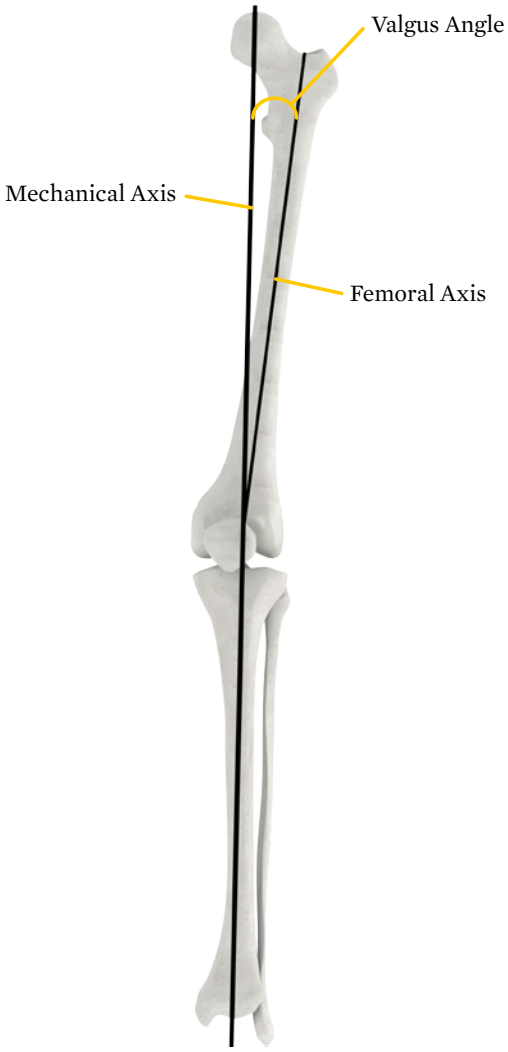


Figure 4: Mechanical and Femoral Axes

Part Numbers this page:
8mm I/M Drill 261-0010
T-Handle Long 261-0013
Notched I/M Alignment Guide 261-0017

Distal Femoral Resection

Figure 5 shows the Distal Femoral Cut Guide assembly. The assembly includes the Distal Cut Guide (A), the Distal Cut Guide Scaffolding (B), and the Varus/Valgus Alignment Guide (C).

Assemble the Distal Cut Guide to the Distal Cut Guide Scaffolding and tighten the locking knob. Insert the assembly into the I/M Alignment Guide and lower it onto the anterior cortex (Figure 6). Adjust the amount of distal femoral resection by rotating the adjustment knob on the Distal Cut Guide Scaffolding (Figure 7). All Balanced Knee Femoral components have a distal condyle thickness of 9mm. When the I/M Alignment Guide rests on eburnated bone and the Distal Cut Guide Scaffolding is set to 9mm (Figure 7a), the amount of distal bone resected will be equal to that replaced by the Femoral component.

Once the appropriate resection amount is set, fix the Distal Cut Guide to the anterior cortex using two 3.2mm Quick Pins through the zero holes* (Figure 7b).

Remove the T-Handle, I/M Alignment Guide, and the Distal Cut Guide Scaffolding, leaving only the pinned Distal Cut Guide. Use an oscillating saw and a 1.27mm thick blade to resect the distal femur (Figure 8).

*The additional 2mm incremental holes on the Distal Cut Guide are used if more or less distal femoral resection is needed. These holes may also be used to place the Distal Cut Guide back onto the anterior cortex if the femur needs to be recut.

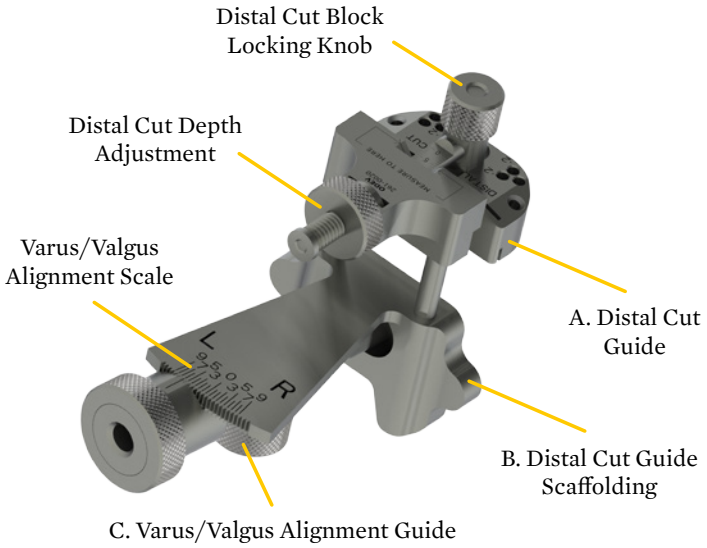


Figure 5: Distal Cutting Guide Assembly

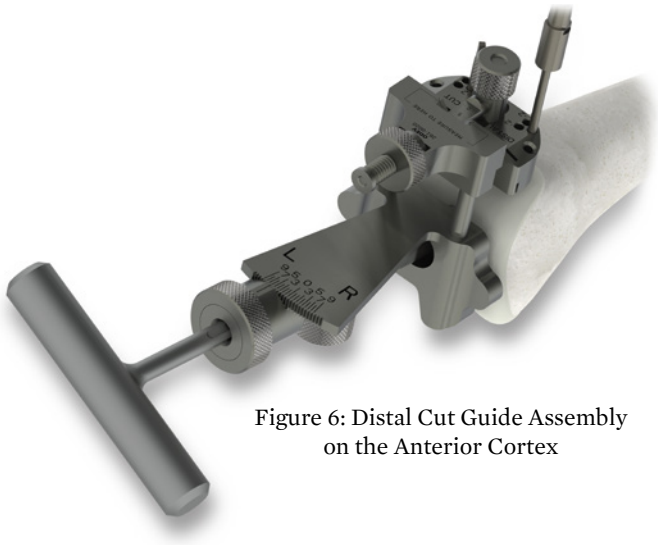


Figure 6: Distal Cut Guide Assembly
on the Anterior Cortex

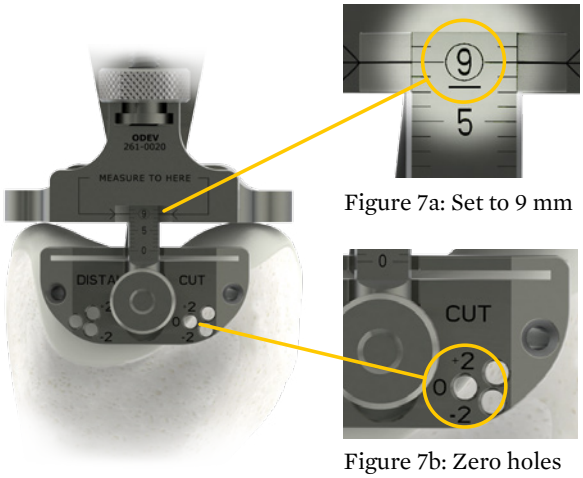


Figure 7: Distal Cut Guide

Figure 7a: Set to 9 mm

Figure 7b: Zero holes

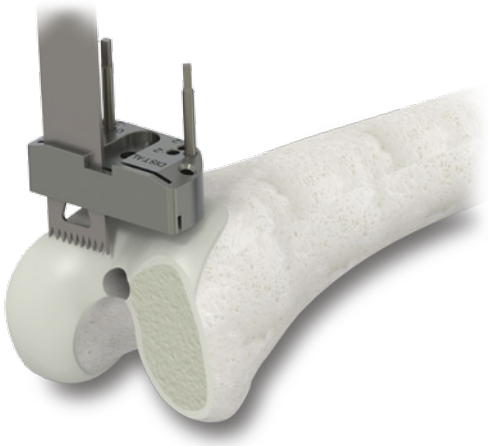


Figure 8: Distal Femoral Resection

Femoral Sizing and External Rotation

Select the appropriate left or right paddles for the A/P Sizing Guide. Seat and center the Sizing Guide on the prepared distal surface. To avoid notching the anterior cortex, position the Stylus on the anterior cortex of the femur. Compress the Sizing Guide until the stylus contacts the anterior cortex of the femur and the paddles contact at least one of the posterior condyles. Check to ensure that the stylus is not seated on a high spot or an unusually low spot on the anterior cortex, and ensure the A/P Sizing Guide is still flush against the distal resected surface (Figure 9). Make note of the Femoral component size reading on the A/P Sizing Guide (sizes 1 through 7). If the reading is between sizes, begin with the larger component since the component can be downsized later. For example, if the reading is between 3 and 4, use a size 4.

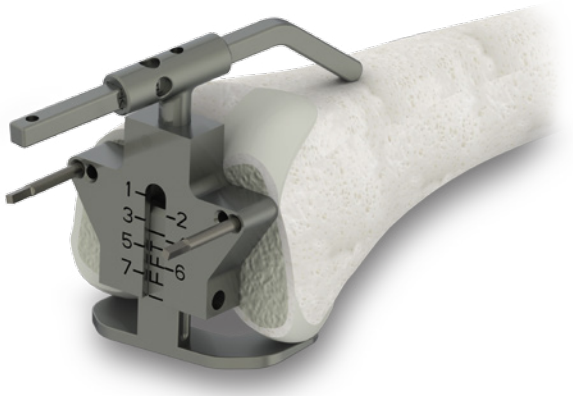


Figure 9: A/P Sizing Guide

The A/P Sizing Guide is designed to place the Femoral component in 3° of external rotation relative to normal posterior femoral condyles (Figure 10). Alternatively, the external rotation may be set manually by aligning the vertical boom of the stylus and/or the slot in the middle of the sizer in line with Whiteside's line (found by scribing a line between the deepest part of the patellar groove and the center of the intercondylar notch). Additionally, external rotation may be set by aligning the flat shoulders of the A/P Sizing Guide, superior to the pin holes, parallel to the epicondylar axis. These alternate methods are effective, for example, in cases with a hypoplastic lateral femoral condyle. In such cases, the posterior paddles of the guide should only touch the medial condyle, having no contact with the lateral condyle (Figure 11).

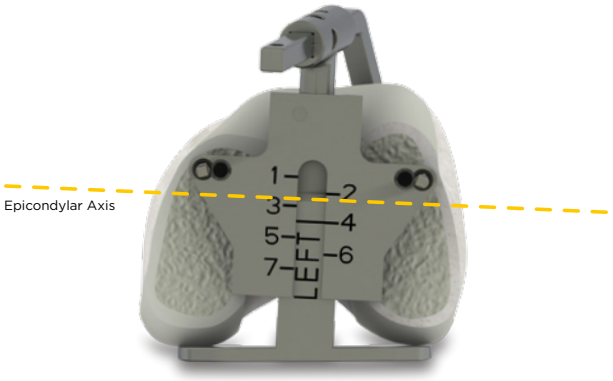


Figure 10: A/P Sizing Guide Normal Posterior Femoral Condyles

Place two 3.2mm Quick Pins through the ***outside*** holes in the A/P Sizing Guide into the distal femur, making certain the stylus is still in contact with the anterior cortex. Rotate the stylus away from the anterior cortex and slide the A/P Sizing Guide off, leaving the Quick Pins in place.

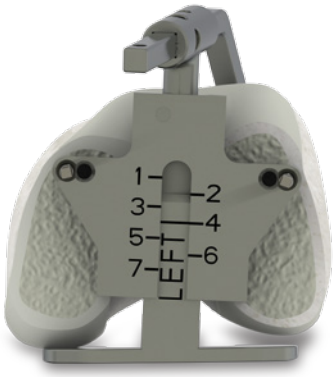


Figure 11: A/P Sizing Guide Hypoplastic Lateral Femoral Condyle

Part Numbers page 4 and 5:
T-Handle Long 261-0013
Notched I/M Alignment Guide 261-0017
Distal Cut Guide Scaffolding 261-0020
Mini Distal Cut Guide Slotted 261-0025
3.2mm Quick Pin Long 261-0044
MIS A/P Sizing Guide 261-0030
A/P Sizing Guide Left Paddle 261-0037

Anterior and Posterior Resections

Select the appropriately sized A/P Cut Guide, as previously determined by the A/P Sizing Guide, and slide it over the Quick Pins (Figure 12) into the holes marked "0" (Figure 12a). The Balanced Knee® System is designed to be anterior referencing. Therefore, the distance from the pinholes on the A/P Cut Guide to the anterior cutting surface is constant from guide to guide, whereas the distance from the pin holes to the posterior cutting surface changes with differing sizes by 4mm (Figure 13). This allows for downsizing of the Femoral component after the anterior resection and posterior resection, if necessary. A Modular Handle may be attached to each side of the A/P Cut Guide if additional stability is desired. Prior to resection, the location of each cut can be visualized using the Cut Feeler Gage (Figure 14).

Note: The A/P Cut Guide may be raised or lowered by 2mm if more or less anterior femoral resection is desired.

Use an oscillating saw with a 1.27mm blade to resect the anterior surface and the posterior condyles (Figure 15). Postpone making the chamfer cuts and finalizing medial-lateral positioning until after the tibial cut, once the medial and lateral soft tissues have been balanced and the flexion-extension gaps have been equalized. This sequence is key to balancing the knee and is explained on pages 7-8 and 10-12. Remove the A/P Cut Guide and Quick Pins. Make sure each surface is planar.

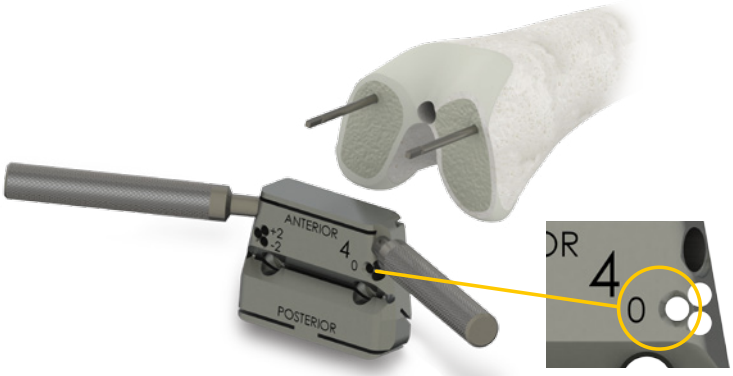


Figure 12: A/P Cut Guide

Figure 12a
Zero Holes

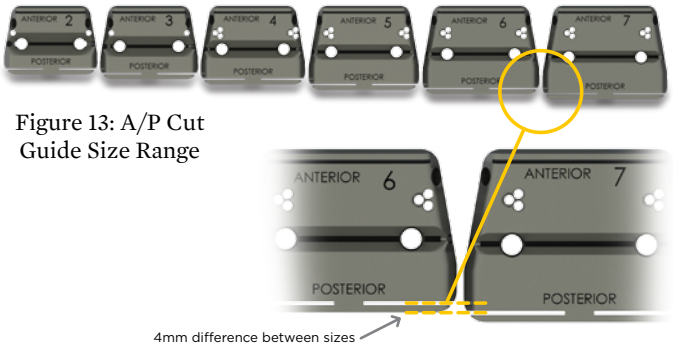


Figure 13: A/P Cut Guide Size Range

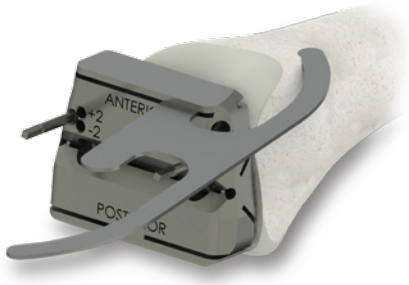


Figure 14: Cut Feeler Gage

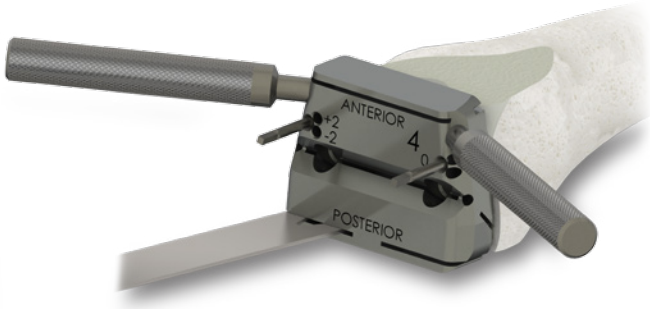


Figure 15: Anterior and Posterior Femoral Resections

Part Numbers this page:
3.2mm Quick Pin Long 261-0044
Modular Handle 261-0052
Tapered 4-in-1 Cut Guide Closed 261-0182-01:261-0187-01
Cut Feeler Gage 262-0600

Proximal Tibial Resection

Assemble the 0° Tibial Cut Guide to the proximal end of the Up-Rod and insert the distal end of the Up-Rod into the Tibial Alignment Guide (Figure 16).

With the knee in flexion, position the Tibial Alignment Guide assembly by securing the ankle clamp around the distal tibia, just superior to the malleoli. Position the proximal end of the Tibial Alignment Guide on the medial third of the tibial tubercle. The Stylus can be adjusted to indicate the surgeons' preferred depth of proximal tibia resection. It is recommended to resect 8mm from the prominent side or 2mm from the deficient side of the proximal tibia. This resection amount is a conservative estimation and may require re-cutting once flexion and extension gaps are evaluated. Assemble the Stylus onto the Tibial Cut Guide and lower the guide until the Stylus contacts the tibial plateau (Figure 18).

Note: The smallest tibial construct thickness is 10.5mm: 7mm for the thinnest Tibial Insert plus 3.5mm Tibial Tray thickness, not including the cement mantle.

(*continued*)

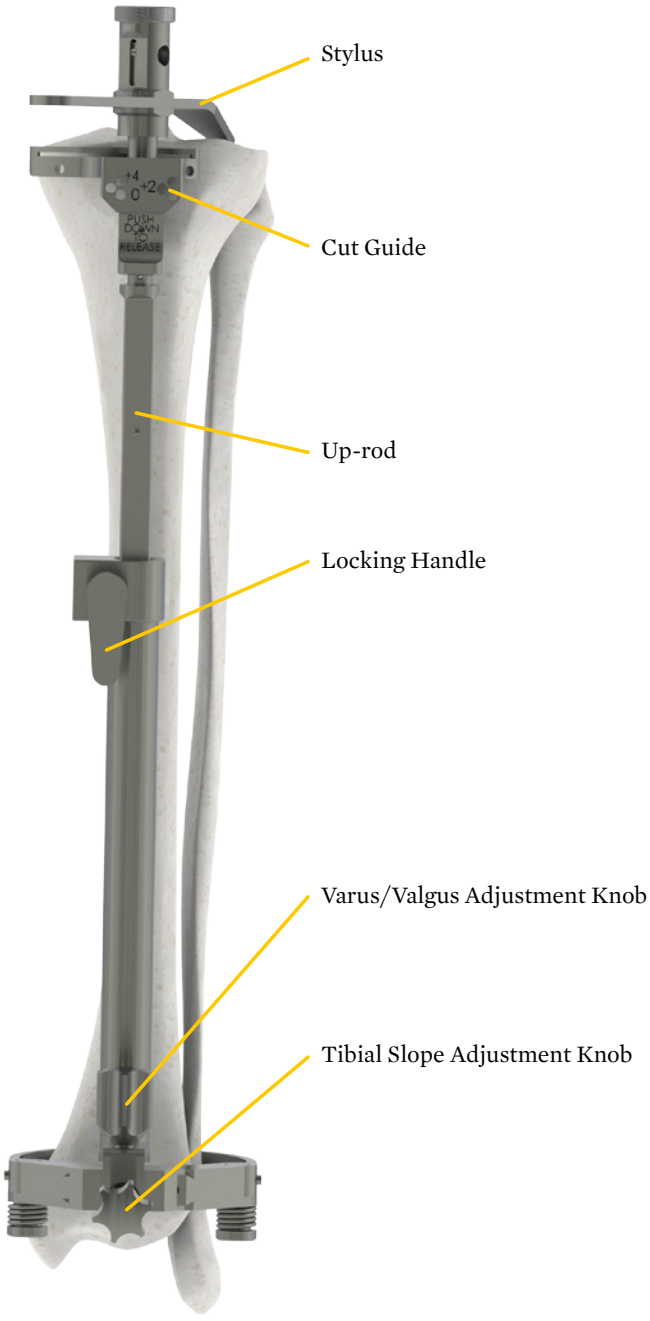


Figure 16: Tibial Alignment Guide

Part Numbers this page:
Tibial Stylus 262-0110
Tibial Cut Guide 0° Left Closed 262-0135
Tibial Alignment Guide 262-0101

The extra-medullary alignment guide facilitates a proximal tibia resection that is perpendicular to the longitudinal axis of the tibia and replicates the native posterior slope.

Replicate the patient's native posterior slope by sliding the distal end of the Tibial Alignment Guide anterior or posterior until the cutting slot of the Tibial Cut Guide is parallel to the native slope of the tibial plateau (Figure 17). The distal end of the Tibial Alignment Guide can also be translated in the coronal plane to make the resection perpendicular to the shaft of the tibia and/or correct for varus/valgus deformities. When aligning the guide in the coronal plane, it is important to align it to the longitudinal axis of the tibia, not the leg.

Pin the Tibial Cut Guide with the Quick Pins, remove the Stylus, and resect the proximal tibia using an oscillating saw and 1.27mm blade (Figure 19).

Note: Care should be taken to protect the medial and lateral soft tissues (using z-retractors) and the posterior structures. We recommend the use of a posterior femoral retractor as illustrated in Figure 19. If the resection is not sufficient, the Tibial Recut Guide is positioned over the previously placed pins to the desired depth (in 2mm increments) and the resection is repeated.

A 5° Tibial Cut Guide is also available. When this guide is used, the Up-Rod of the Tibial Alignment Guide should be positioned parallel to the axis of the tibia in order to create a cut surface with 5° of posterior slope.

An Intra-Medullary (I/M) Guide is available if preferred.

Figure 17: Tibial Slope

Figure 18: Stylus on Tibial Plateau

Figure 19: Tibial Resection

Part Numbers this page:
Tibial Stylus 262-0110
Tibial Cut Guide 0° Left Closed 262-0135
Tibial Alignment Guide 262-0101

Patella Preparation

Evert the patella and measure its thickness using the Patella Calipers (Figure 20). Determine the amount of patella to resect based on the thickness of the native patella and the thickness of the Patella prosthesis (see Appendix C). Ideally, it is recommended to maintain at least 14-15mm of the patient's native patella. The depth gage on the side of the Patella Resection Guide indicates the distance from the paddle on the anterior surface of the patella to the resection level. Once the amount of resection has been determined, rotate the dial on the top of the Patella Resection Guide until the depth gage indicates the value determined by subtracting the desired amount of resection from the overall patella thickness (Figure 21). Clamp the patella in the Patella Resection Guide, ensuring the paddle sits flush on the anterior surface of the patella.

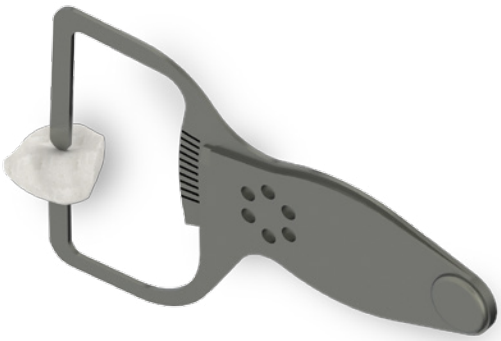


Figure 20: Patella Calipers

Tighten the guide completely and resect the patella using an oscillating saw with a 1.27mm blade (Figure 22). The Patella Calipers are used after the resection to verify the remaining patellar thickness and symmetry of the cut.

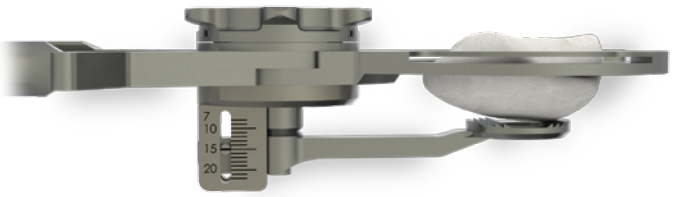


Figure 21: Patellar Resection

Use the Patella Sizing Templates to determine the implant size. Orient the template so that one hole is placed on the lateral patellar facet and the other two holes are placed on the medial patellar facet. Once the size has been determined, insert the Clamp through the slot on the Sizing Template to secure the template to the resected patella surface. Drill the peg holes using the Patella Peg Drill (Figure 23); be certain that the Patella Peg Drill bottoms out on the Patella Sizing Template.

The patellar component's thickness varies with size.
See Appendix C for component thickness.

Figure 22: Patellar Resection

Figure 23: Drilling Peg Holes

Part Numbers this page:
Patella Resection Guide 264-0001
Patella Calipers 264-0015
Patella Sizing Template Clamp 264-0020
Patella Sizing Template 264-2932
Tibial Alignment Guide 262-0101

Soft Tissue Balancing and Equalization of Flexion/Extension Gaps

Remove all of the tibial rim, femoral notch and posterior femoral osteophytes. At this stage, the distal femur is rectangular in shape with only distal, anterior and posterior resections, and the proximal tibia is perpendicular to the long axis of the tibia. Soft tissue balancing is now performed, in conjunction with equalization of flexion and extension gaps, prior to finalizing the femoral chamfer cuts.

Address balancing of the soft tissues in conjunction with further bony resections. See Appendix A for further discussion of soft tissue balancing.

Spacer Blocks are provided to assess the symmetry of the flexion and extension gaps. The Spacer Block/Handle assembly thickness equals the Tibial Insert plus the Tibial Tray plus the thickness of the Femoral component (Figure 25). The size marked on each of the Spacer Blocks corresponds to the thickness of the Tibial Insert and both are available in 1mm increments up to 14mm to help optimize soft tissue balancing (Inserts and Spacer Blocks are offered in sizes 7-14mm, 16mm, 18mm and 20mm.)

Note: The thinnest Tibial Insert implant available is 7mm. Two thinner under-sized Spacer Blocks (5mm and 6mm) are also included that are colored blue to differentiate them from the gray Spacer Blocks that have a corresponding Tibial Insert prosthesis.

Attach a Spacer Block to the Spacer Block Handle and insert the assembly first into the joint space at both 90° of flexion and at full extension. Check for symmetry of the flexion and extension gaps.

(continued)

Figure 24: Flexion Assessment

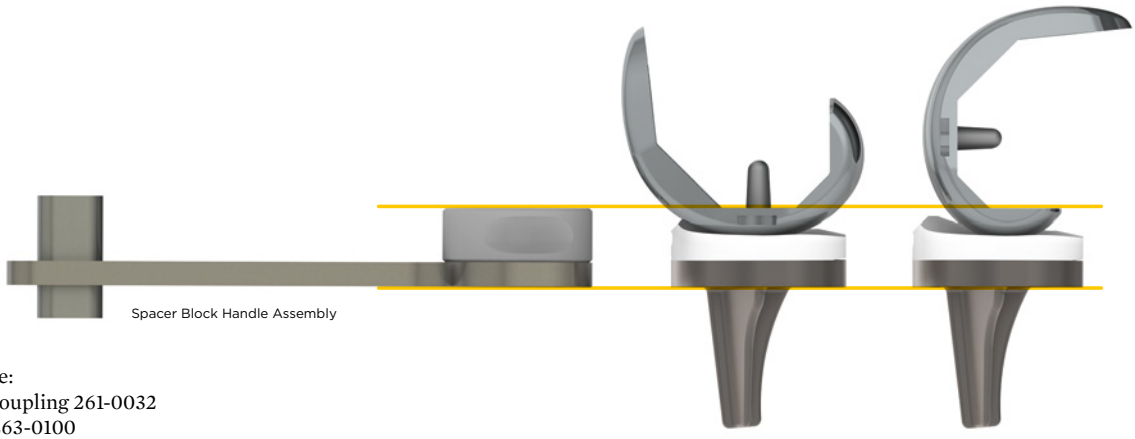


Figure 25: Component Thickness

Part Numbers this page:
Alignment Rod with Coupling 261-0032
Spacer Block Handle 263-0100
Spacer Block 7mm 263-0107
CR Femoral Component Nonporous 161-3101:161-3702
Tibial Tray Nonporous 162-1100A:162-1700A
CR Tibial Insert 163-2107:163-2720

TIGHTER IN EXTENSION THAN FLEXION

Consider removing additional distal femur to increase the extension gap. The Distal Cut Block can be placed back onto the femur using the existing pin holes and additional resection can be made in 2mm increments.

TIGHTER IN FLEXION THAN EXTENSION

Consider downsizing the femoral component. This will remove an additional 4mm from the posterior condyle, thereby increasing the flexion gap.

TIGHT IN BOTH FLEXION AND EXTENSION

If the smallest Spacer Block is tight in flexion and extension, additional bone may be resected from the proximal tibia, which will increase the flexion and extension gaps equally.

The Alignment Rods are inserted through the Spacer Block Handle to verify appropriate alignment. With the knee flexed, the distal Alignment Rod may be used to assess the varus/valgus angle of the tibial cut (Figure 24). With the knee extended, the two Alignment Rods can be connected to assess the overall alignment of the knee relative to the mechanical axis (Figure 26). The goal is for the Alignment Rods to run from the center of the femoral head, through the center of the knee joint, to the center of the ankle joint (i.e. normal mechanical axis).

Figure 26: Extension Assesment and Mechanical Axis

Part Numbers this page:
Alignment Rod 261-0031
Alignment Rod with Coupling 261-0032
Spacer Block Handle 263-0100
Spacer Block 7mm 263-0107

Femoral Component Positioning (M/L), Femoral Finishing Cuts

After obtaining soft tissue balance and equal flexion and extension gaps, attach the appropriately sized left- or right-oriented Finish Cut Guide. The anterior profile of the Finish Cut Guide matches that of the Femoral prosthesis (Figure 27a). Use this feature to set the M/L position of the Finish Cut Guide, and thus, the Femoral implant, with reference to the anterior femoral surface. Secure the guide by driving two 3.2mm Quick Pins through the outermost holes and into the distal femoral surface (Figure 27). A Headed Pin may also be inserted into the anterior hole of the Finish Cut Guide and into the anterior femur.

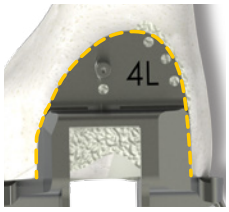


Figure 27a: Anterior Profile Matches the Femoral Implant

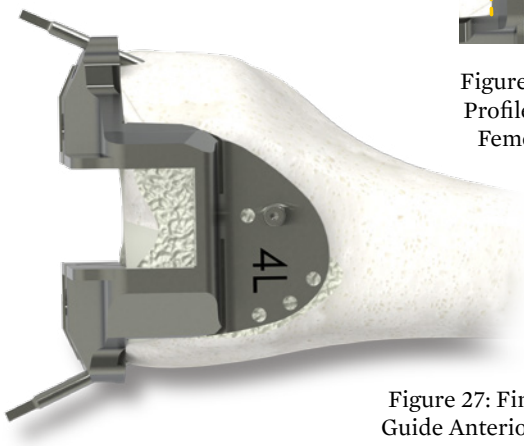


Figure 27: Finish Cut Guide Anterior Profile

FOR PS FEMORAL COMPONENTS ONLY

Create the notch for the intercondylar box on the Femoral component using an oscillating saw (Figure 28). The Bone File may be used to ensure that the surfaces are planar.

The box on all Femoral components is the same size (22mm wide) to facilitate up-sizing and down-sizing the Femoral component during the procedure. The width of the box is designed to allow the use of a retrograde femoral nail if required for fracture fixation.

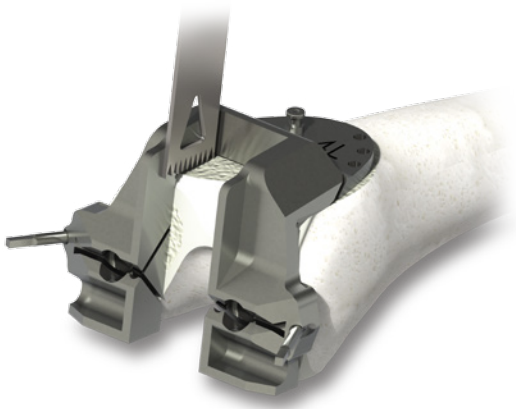


Figure 28: Box Cut for PS Femoral Component

FOR CS AND PS FEMORAL COMPONENTS

Use an oscillating saw with a 1.27mm blade to cut the anterior and posterior chamfers (Figure 29).

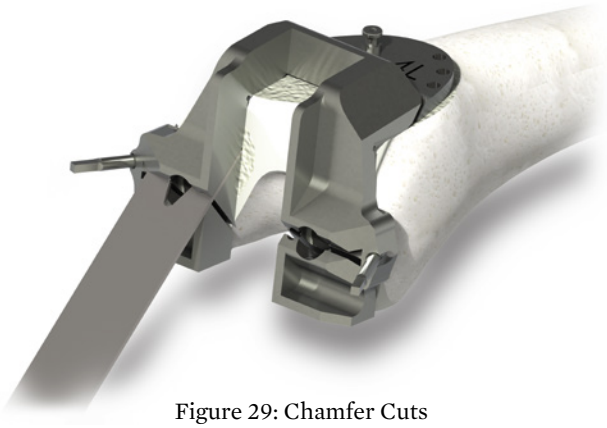


Figure 29: Chamfer Cuts

Part Numbers this page:
MIS Finish Cut Guide Size 4 Left 261-0404
3.2mm Quick Pin Long 261-0044
Headed Pin 262-0520

Trial Reduction

Select the appropriate Femoral Trial and position it onto the prepared femur (Figure 30). Use the Femoral Impactor/ Extractor to seat the trial, taking precaution to ensure the trial does not move into flexion.

Take the knee through a full range of motion, noting the medial and lateral stability and overall A/P and M/L alignment of the trials (Figure 31). Check final soft tissue balancing at this point and adjust accordingly.

Attach the Tibial Trial Alignment Handle to the Tibial Tray Trial while in full extension. Use the handle to rotate the Tibial Insert Trial into congruency with the Femoral Trial. Use an electrocautery or other marking device to indicate on the tibia the congruent rotational position of the Tibial Tray Trial. In general, the midline of the anterior aspect of the tibial tray should be in line with the medial third of the tibial tubercle. The two Alignment Rods may be inserted through the Guide in the Tibial Trial Alignment Handle to re-check overall alignment.

*Femoral component and Tibial Tray sizes can mismatch by one size, up or down. For example, a size 5 Tibial Tray may be used with a Size 4, 5, or 6 Femoral implant. See Appendix B.

Figure 30: Femoral Component Trial

Figure 31: Trial Components

Femoral Peg Drilling

Use the Femoral Peg Drill to make the distal holes for the pegs on the Femoral component pegs (Figure 32). The Femoral Peg Drill will stop at the appropriate depth.

Figure 32: Femoral Peg Drill

Part Numbers this page:
CR Femoral Trial Size 4 Left 261-3401
CR Insert Trial Size 4, 7mm 263-2407
Tibial Tray Sizer Trial Size 4 662-0204
Alignment Handle 662-0220
Femoral Peg Drill 261-0050

Tibial Keel Preparation

Remove the Tibial Insert Trial from the Tibial Tray Trial. Realign the Tibial Tray Trial with the rotational mark made during trial reduction. Secure the Tibial Tray Trial to the tibia with the Headed Pins and the Headed Pin Driver (Figure 33). Please note the appropriate holes on the Tibial Tray Trial that should be used for the Headed Pins (Figure 33a).

If desired, trial reduction may again be performed with the Tibial Tray Trial pinned into place. The Trial Inserts are designed to seat onto the Tibial Tray Trial even with the Headed Pins in place.

Slide the posterior pins into the corresponding holes on the Tibial Tray Trial, then rotate anteriorly until the Tibial Punch Guide snaps into place (Figure 34). Select the appropriate Punch size (Figure 35) and insert it into the Punch Guide. Use a mallet to drive the Tibial Punch into the proximal tibia until the strike plate contacts the proximal shoulders of the Tibial Punch Guide (Figure 36). Use the mallet to impact the bottom of the strike plate to back-out the Tibial Punch. Use care to remove the Punch Guide and Tibial Tray Trial without damaging the prepared surface of the proximal tibia.

Figure 33: Securing the Tibial Tray Trial

Figure 33a: Headed Pin Holes

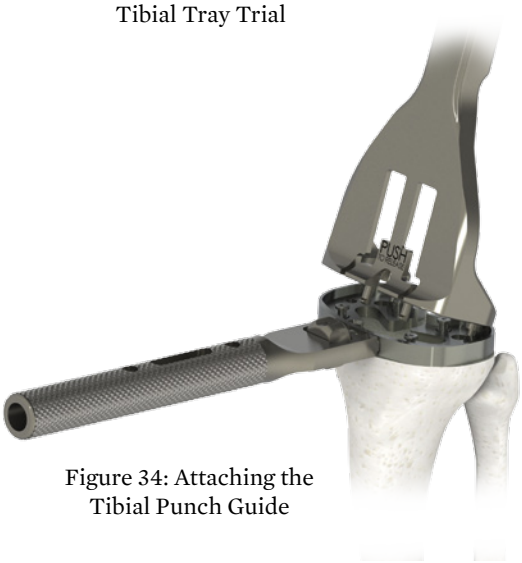


Figure 34: Attaching the Tibial Punch Guide

Figure 35: Cemented Tibial Keel Punch

Figure 36: Preparing the Proximal Tibial

Part Numbers this page:
Headed Pin 262-0520
Alignment Handle 662-0220
Headed Pin Driver 262-0530
Tibial Punch Guide 662-0401
Cemented Tibial Punch Size 3-4 262-0334
Tibial Tray Trial Size 4 662-0204

Implanting the Components, Cement Preparation

Thoroughly clean the entire site with pulsatile lavage. Plug the entry hole to the femoral medullary canal with a cancellous bone plug from either the resected notch from a PS femur or the resected chamfer cuts from a CR femur.

TIBIAL TRAY

Cement the tibia first. Apply cement by firm thumb pressure to the proximal tibia. Also apply cement into the tibial keel recess. Use firm pressure to ensure cement interdigitation into the bony interstices. Press the keel of the Tibial Tray into the broached hole in the tibia (Figure 37). Allow the keel of the component to follow the track created by the punch. Use the Tibial Tray Impactor to fully seat the Tibial Tray, using caution to not mal-rotate the implant.

Figure 37: Cementing the Tibial Tray

FEMORAL COMPONENT

Attach the Femoral component to the Femoral Impactor/Extractor. Apply bone cement to all prepared femoral surfaces except the posterior cut surface. It is recommended that cement be applied to the component on its posterior flares, instead of the bone, to reduce cement extrusion posteriorly. Align the Femoral component with the prepared femur and use a mallet to impact the Femoral Impactor/Extractor to seat the Femoral implant (Figure 38). Remove the Femoral Impactor/Extractor and use the Femoral Impactor to fully seat the implant, if needed (Figure 39). Place the appropriate thickness Tibial Insert Trial onto the Tibial Tray and bring the knee into full extension, removing any extruded cement. Bring the knee back into flexion and remove any additional extruded cement. Then place the knee back into full extension while allowing the cement to harden. This provides excellent pressurization of the cement interface.

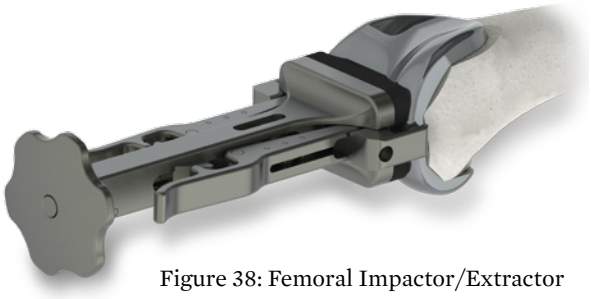


Figure 38: Femoral Impactor/Extractor

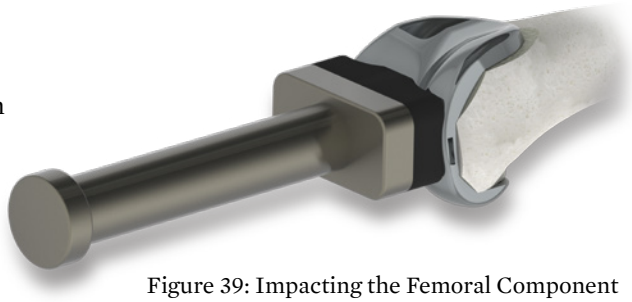


Figure 39: Impacting the Femoral Component

PATELLA

Apply cement to the prepared patellar surface, including into the peg holes. Insert the patellar component and secure the Patella Cementing Clamp over the implant (Figure 40). Do not over-tighten, as it could lead to fracture.

(continued)

Part Numbers this page:
Femoral Impactor/Extractor 261-0054
Femoral Impactor 261-0051
Patella Cementing Clamp with Celcon Head 264-0007
Patella Cementing Clamp Head 35mm 264-0007-35
CR Femoral Component Nonporous 161-3101:161-3702
Tibial Tray Nonporous 162-1100A:162-1700A

Figure 40: Cementing the Patellar Component

TIBIAL INSERT

After the cement has cured, deflate the tourniquet, ensure hemostasis, and re-irrigate the joint space. Reassess range of motion and joint stability, and modify the thickness of the Tibial Insert if needed. Bring the knee into flexion to remove the Tibial Insert Trial, and remove any excess cement from the posterior aspect of the joint. Inspect the Tibial Tray for debris, being careful not to scratch the tray. Load the Tibial Insert implant onto the Tibial Tray, engaging first the posterior lip of the insert under the posterior lip of the tray. Insert the peg of the Tibial Insert Clamp into the anterior hole in the Tibial Tray and engage the Tibial Insert with the other side of the clamp (Figure 41). Squeeze the clamp together, locking the Tibial Insert down onto the Tibial Tray. The insert should seat easily with an audible "snap." Check to be certain the insert is fully seated anteriorly as well as posteriorly.

Figure 41: Locking in the Tibial Insert

Closing the Wound

The knee should be taken through a full range of motion to ensure patellar stability. Once the desired result is achieved, the wound should be closed in standard fashion.

Part Numbers this page:
Tibial Insert Clamp 263-0010
Tibial Tray Nonporous 162-1100A:162-1700A
CR Tibial Insert 163-2107:163-2720

Appendix

A. TISSUE BALANCING FOR VARUS AND VALGUS KNEES

VARUS

Initial release begins at the time of incision with further and complete balancing at the time of flexion and extension gap verification. Posterior stabilizing knee implants, with removal of the ACL and the PCL, also tend to help with soft tissues, and in minor deformities may provide sufficient ligamentous balancing. Medial release involves, first, removal of tibial and femoral osteophytes, then a soft tissue peeling directed from the tibial joint line distally and across the tibial surface anterior to posterior. Further release can be obtained by directing the blunt soft tissue dissection distally from the medial tibia. The semimembranosus can be released from the posterior aspect of the tibia. In severe cases, the complete medial sleeve of tissue, including the distal superficial MCL insertion, can be released from the tibia. When released as a sleeve, it will heal in the correct, balanced position. In the most severe cases, a sleeve of tissue at the medial epicondyle can be released from the femur.

Rather than releasing the entire MCL off of the tibia in marked varus cases, the pie-crusting technique can be very useful. If the knee is still tight medially after removal of osteophytes and release of the coronary attachment site of the MCL, pie-crust the MCL until it gradually elongates to match the tension of the lateral tissues.

VALGUS

The technique described by Leo Whiteside has been found to be useful when dealing with a valgus deformity (Clinical Orthopaedics and Related Research No. 367, October 1999, pp. 130-140). This approach addresses the four main ligamentous structures (LCL, popliteal tendon, iliotibial band, and posterolateral capsule) on the lateral side of the knee. Selected release is based on whether the valgus deformity is present in flexion, extension, or both flexion and extension. The LCL and popliteal tendon function in both flexion and extension. Therefore, those knees that are tight only in flexion or in both flexion and extension on the lateral side undergo resection of these two structures first. The posterolateral capsule and iliotibial band are taut only in extension. Therefore, those knees that are tight only in extension, either initially or after balancing has been performed in flexion, undergo resection of these two structures as necessary. Ligamentous advancement procedures have not been found to be necessary, even in severe deformities.

B. IMPLANT INTERCHANGEABILITY

The Balanced Knee® System tibial inserts are interchangeable with the femoral components and tibial trays (matched one to one with the tibial tray and up/down one with the femoral component) as illustrated in the chart, where the shaded areas are the tibial insert sizes:

TIBIAL TRAY SIZE	FEMORAL COMPONENT SIZE								
	1	2	3	4 Narrow	4	5 Narrow	5	6	7
1	1	1							
2	2	2	2						
3		3	3	3	3				
4			4	4	4	4	4		
5				5	5	5	5	5	
6						6	6	6	6
7								7	7

C. COMPONENT DIMENSIONS

FEMORAL COMPONENT (FIGURE A)

Size	A/P (mm)	M/L (mm)
1	50.0	56.5
2	54.0	59.5
3	57.5	62.5
4 Narrow	61.5	62.5
4	61.5	66.5
5 Narrow	65.5	66.5
5	65.5	70.5
6	69.5	74.5
7	74.0	79.5

TIBIAL TRAY (FIGURE B)

Size	A/P (mm)	M/L (mm)
1	36.5	57.5
2	39.0	61.0
3	41.5	65.0
4	44.5	69.5
5	48.0	75.0
6	51.5	80.5
7	55.0	86.0

PATELLA (FIGURE C)

Size (Diameter)	Height (Thickness)
29 mm	7.5 mm
32 mm	8.0 mm
35 mm	9.0 mm
38 mm	10.0 mm

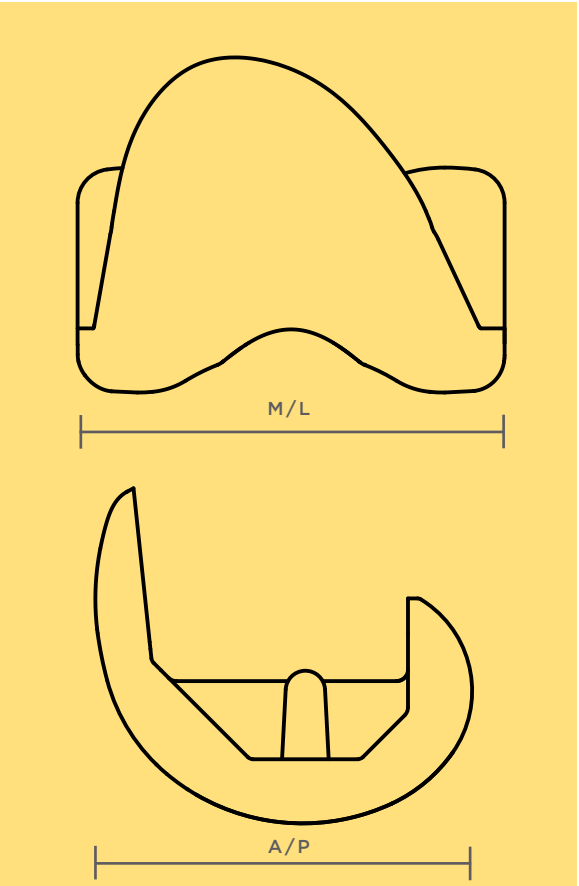


Figure A

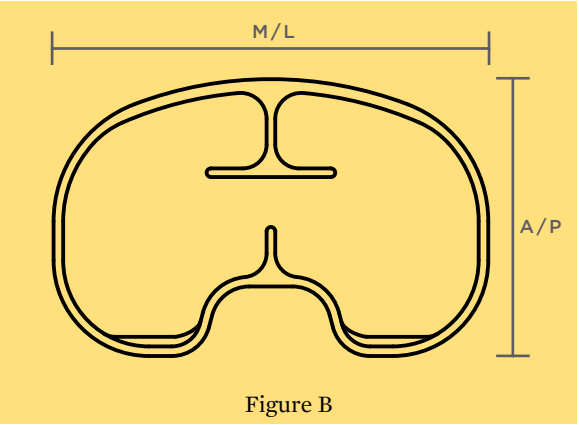


Figure B

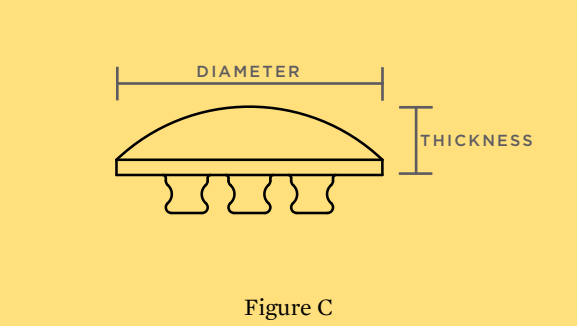
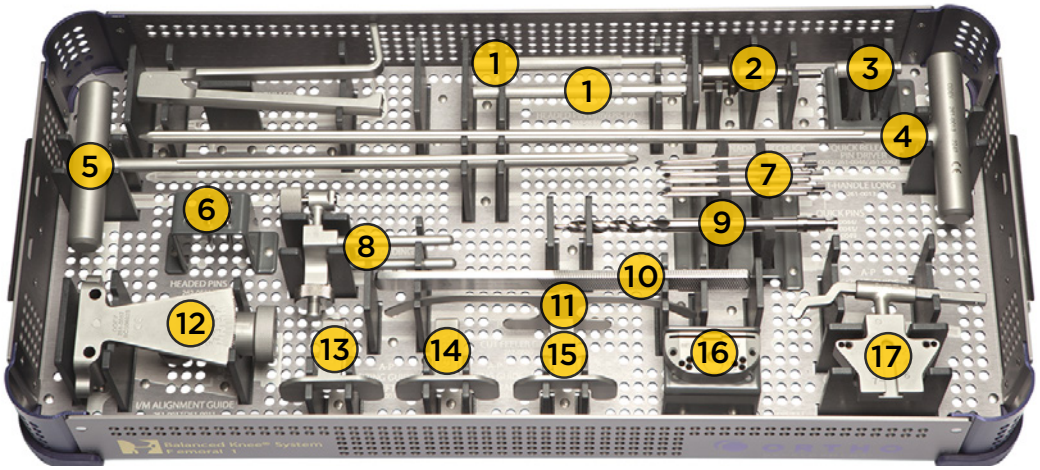


Figure C

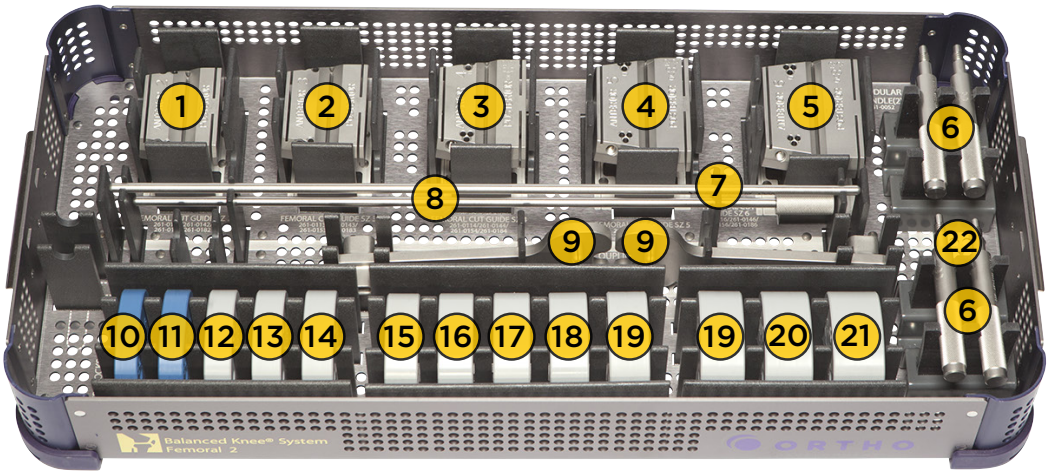
Balanced Knee® System Instrument Trays



261-9301 BKS FEMORAL INSTRUMENT TRAY 1

NUMBER	ITEM #	DESCRIPTION	QTY
1	262-0530	Headed Pin Driver	2
2	211-0016	Hudson Adapter Chuck	1
3	261-0042	Quick Release Pin Driver	1
4	261-0013	Long T-Handle	1
5	261-0012	Short T-Handle	1
6	262-0520	Headed Pin	4
7	261-0044	3.2mm Long Quick Pin	6
8	261-0020	Distal Cut Guide Scaffolding	1
9	261-0010	8mm I/M Drill	1
10	261-0053	Bone File	1

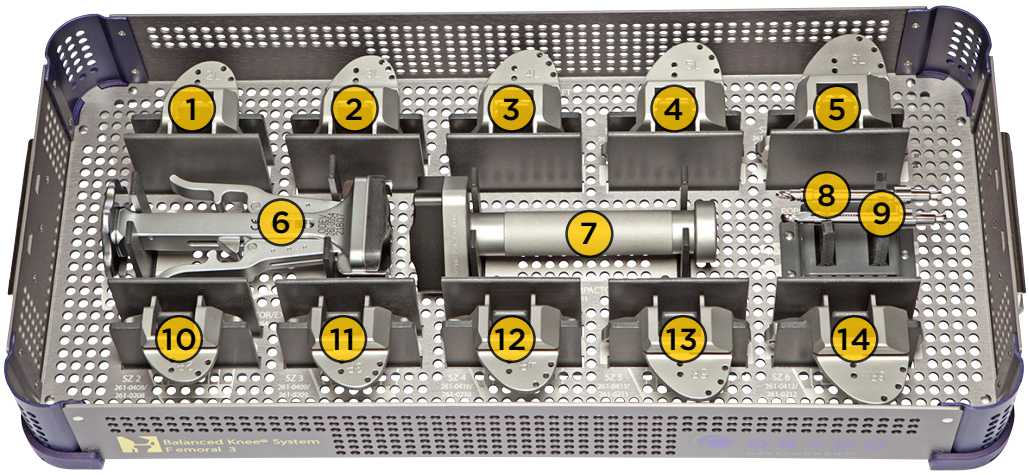
NUMBER	ITEM #	DESCRIPTION	QTY
11	262-0600	Cut Feeler Gage	1
12	261-0017	Notched I/M Alignment Guide	1
13	261-0037	LT A/P Sizing Guide Paddle	1
14	261-0036	A/P Sizing Guide Paddle Neutral	1
15	261-0038	RT A/P Sizing Guide Paddle	1
16	261-0025	Mini Distal Cut Guide Slotted	1
17	261-0034	MIS A/P Sizing Guide	1
not pictured	261-0063	Flexible Straight & Headed Pin Puller	1
	261-6100	BKS Case Lid	1
	261-6101	Femoral Instrument Case 1	1



261-9302 BKS FEMORAL INSTRUMENT TRAY 2

NUM.	ITEM #	DESCRIPTION	QTY
1	261-0182-01	Size 2 4-in-1 Taper A/P Cut Guide Closed w/screw holes	1
2	261-0183-01	Size 3 4-in-1 Taper A/P Cut Guide Closed w/screw holes	1
3	261-0184-01	Size 4 4-in-1 Taper A/P Cut Guide Closed w/screw holes	1
4	261-0185-01	Size 5 4-in-1 Taper A/P Cut Guide Closed w/screw holes	1
5	261-0186-01	Size 6 4-in-1 Taper A/P Cut Guide Closed w/screw holes	1
6	261-0052	Modular Handle	4
7	261-0032	Alignment Rod with Coupling	1
8	261-0031	Alignment Rod	1
9	263-0100	Spacer Block Handle	2
10	263-0105	5mm Spacer Block	1
11	263-0106	6mm Spacer Block	1
12	263-0107	7mm Spacer Block	1
13	263-0108	8mm Spacer Block	1

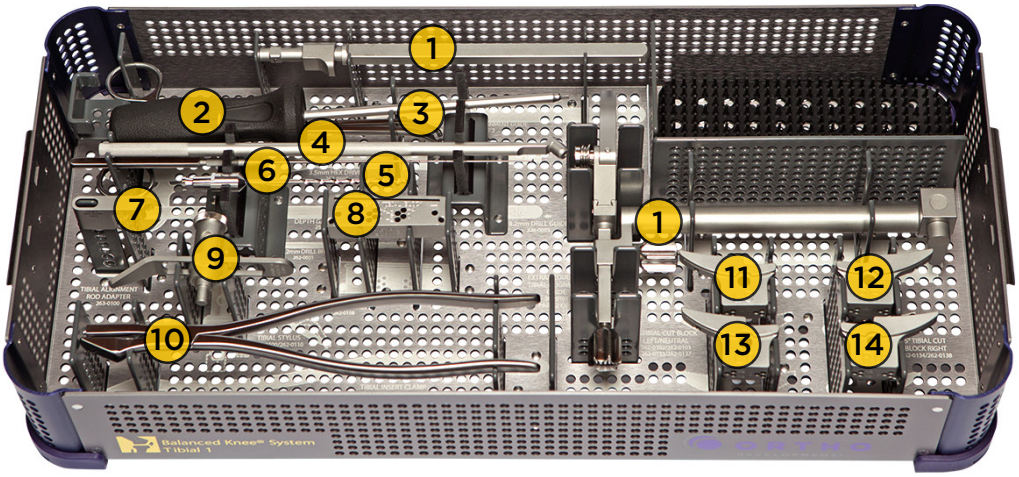
NUMBER	ITEM #	DESCRIPTION	QTY
14	263-0109	9mm Spacer Block	1
15	263-0110	10mm Spacer Block	1
16	263-0111	11mm Spacer Block	1
17	263-0112	12mm Spacer Block	1
18	263-0113	13mm Spacer Block	1
19	263-0114	14mm Spacer Block	1
20	263-0116	16mm Spacer Block	1
21	263-0118	18mm Spacer Block	1
22	263-0120	20mm Spacer Block	1
not pictured	261-6100	BKS Case Lid	1
	261-6102	Femoral Instrument Case 2	1



261-9303 BKS FEMORAL INSTRUMENT TRAY 3

NUMBER	ITEM #	DESCRIPTION	QTY
1	261-0402	Size 2 LT MIS Finish Cut Guide	1
2	261-0403	Size 3 LT MIS Finish Cut Guide	1
3	261-0404	Size 4 LT MIS Finish Cut Guide	1
4	261-0405	Size 5 LT MIS Finish Cut Guide	1
5	261-0406	Size 6 LT MIS Finish Cut Guide	1
6	261-0054	Femoral Impactor Extractor	1
7	261-0051	Femoral Impactor	1
8	261-0060	Porous Femoral Peg Drill	1

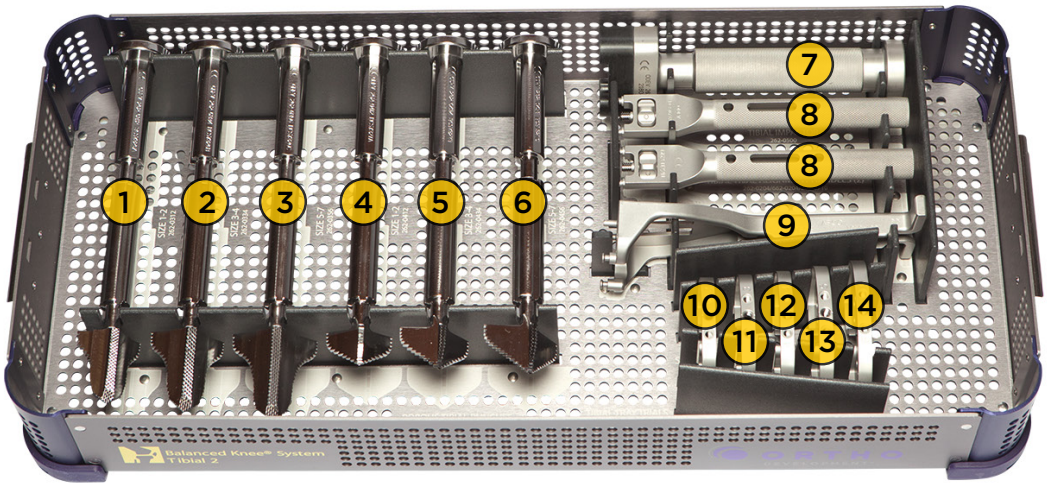
NUMBER	ITEM #	DESCRIPTION	QTY
9	261-0050	Femoral Peg Drill	1
10	261-0408	Size 2 RT MIS Finish Cut Guide	1
11	261-0409	Size 3 RT MIS Finish Cut Guide	1
12	261-0410	Size 4 RT MIS Finish Cut Guide	1
13	261-0411	Size 5 RT MIS Finish Cut Guide	1
14	261-0412	Size 6 RT MIS Finish Cut Guide	1
	261-6100	BKS Case Lid	1
	261-6103A	Femoral Instrument Case 3	1



261-9304 BKS TIBIAL INSTRUMENT TRAY 1

NUMBER	ITEM #	DESCRIPTION	QTY
1	262-0101	Tibial Alignment Guide	1
2	262-0605	3.5mm Hex Driver	1
3	226-0003	Screw Holding Forceps	1
4	226-0005	3.2mm Drill Guide	1
5	252-0006	Depth Gage	1
6	262-0601	3.2mm Drill Bit	1
7	262-0100	Tibial Alignment Rod Adapter	1
8	262-0108	2° Tibial Block	1

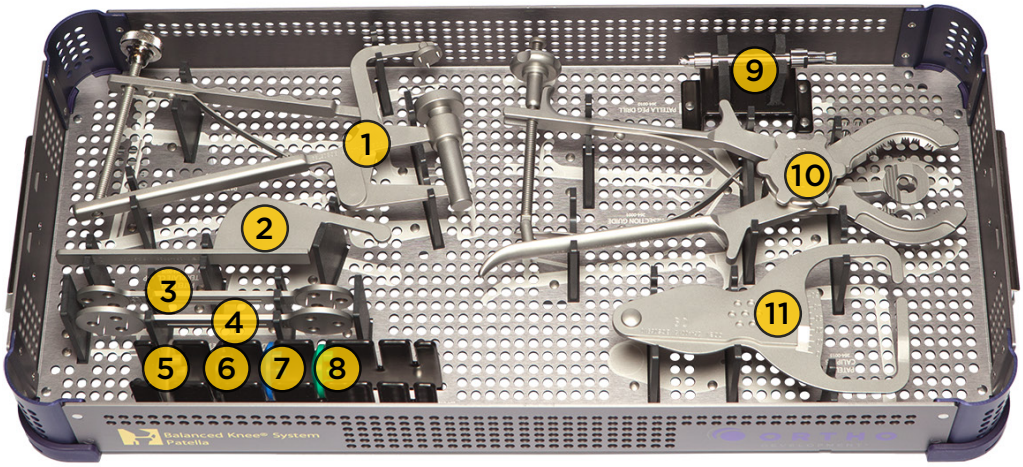
NUMBER	ITEM #	DESCRIPTION	QTY
9	262-0110	Tibial Stylus	1
10	263-0010	Tibial Insert Clamp	1
11	262-0137	5° LT Tibial Cut Guide Closed	1
12	262-0138	5° RT Tibial Cut Guide Closed	1
13	262-0135	0° LT Tibial Cut Guide Closed	1
14	262-0136	0° RT Tibial Cut Guide Closed	1
	261-6100	BKS Case Lid	1
	261-6104	Tibial Instrument Case 1	1



261-9305 BKS TIBIAL INSTRUMENT TRAY 2

NUMBER	ITEM #	DESCRIPTION	QTY
1	262-0312A	Size 1-2 Tibial Punch Cemented	1
2	262-0334A	Size 3-4 Tibial Punch Cemented	1
3	262-0356A	Size 5-6 Tibial Punch Cemented	1
4	262-0412A	Size 1-2 Tibial Punch Non-Cemented	1
5	262-0434A	Size 3-4 Tibial Punch Non-Cemented	1
6	262-0456A	Size 5-6 Tibial Punch Non-Cemented	1
7	262-0500	Tibial Tray Impactor	1
8	662-0220	Ailgnment Handle	2

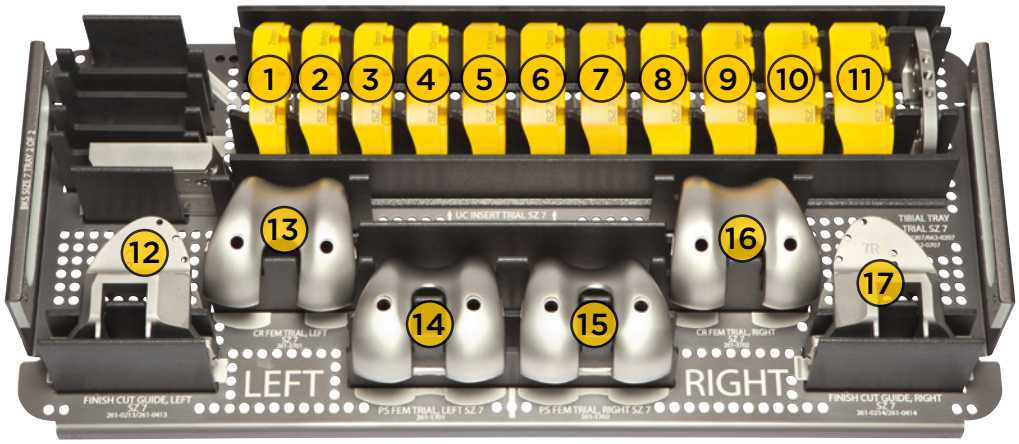
NUMBER	ITEM #	DESCRIPTION	QTY
9	662-0401	Tibial Punch Guide	1
10	662-0202	Size 2 Tibial Tray Sizer Trial	1
11	662-0203	Size 3 Tibial Tray Sizer Trial	1
12	662-0204	Size 4 Tibial Tray Sizer Trial	1
13	662-0205	Size 5 Tibial Tray Sizer Trial	1
14	662-0206	Size 6 Tibial Tray Sizer Trial	1
	261-6100	BKS Case Lid	1
	261-6105	Tibial Instrument Case 2	1

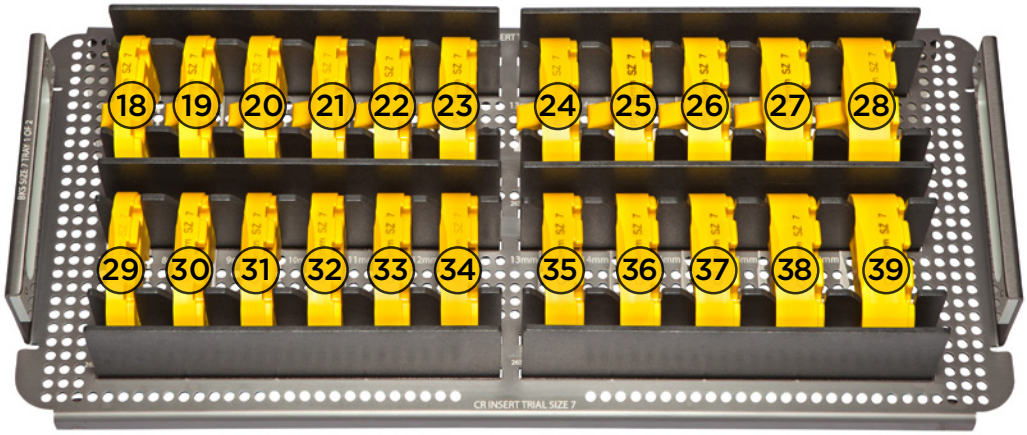


261-9306A PATELLA INSTRUMENT TRAY

NUMBER	ITEM #	DESCRIPTION	QTY
1	264-0007	Patella Cementing Clamp with Celcon Head	1
2	264-0020	Patella Sizing Template Clamp	1
3	264-2932	29-32mm Patella Sizing Template	1
4	264-3538	35-38mm Patella Sizing Template	1
5	264-0029	29mm Patella Trial	1
6	264-0032	32mm Patella Trial	1
7	264-0035	35mm Patella Trial	1

NUMBER	ITEM #	DESCRIPTION	QTY
8	264-0038	38mm Patella Trial	1
9	264-0010	Patella Peg Drill	1
10	264-0001	Patella Resection Guide	1
11	264-0015	Patella Calipers	1
not pictured	264-0007-35	Patella Cementing Clamp Head 35mm	1
	261-6100	BKS Case Lid	1
	261-6106	Patella Instrument Case	1

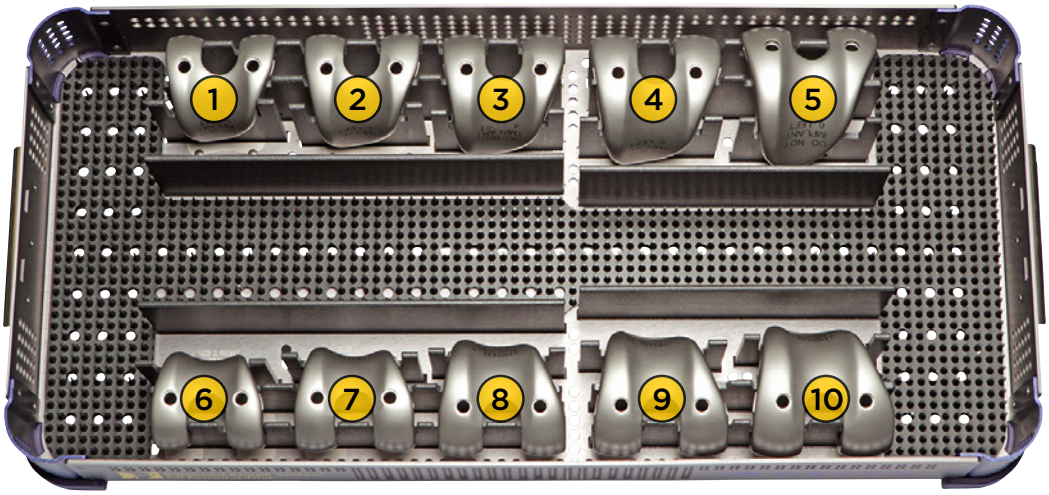




261-9308A SIZE 7 INSTRUMENT TRAY

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-3707	Size 7 7mm UC Insert Trial	1
2	263-3708	Size 7 8mm UC Insert Trial	1
3	263-3709	Size 7 9mm UC Insert Trial	1
4	263-3710	Size 7 10mm UC Insert Trial	1
5	263-3711	Size 7 11mm UC Insert Trial	1
6	263-3712	Size 7 12mm UC Insert Trial	1
7	263-3713	Size 7 13mm UC Insert Trial	1
8	263-3714	Size 7 14mm UC Insert Trial	1
9	263-3716	Size 7 16mm UC Insert Trial	1
10	263-3718	Size 7 18mm UC Insert Trial	1
11	263-3720	Size 7 20mm UC Insert Trial	1
12	261-0413	Size 7 LT MIS Finish Cut Guide	1
13	261-3701A	Size 7 LT CR Femoral Trial	1
14	261-1701A	Size 7 LT PS Femoral Trial	1
15	261-1702A	Size 7 RT PS Femoral Trial	1
16	261-3702A	Size 7 RT CR Femoral Trial	1
17	261-0414	Size 7 RT MIS Finish Cut Guide	1
18	263-1707	Size 7 7mm PS Insert Trial	1
19	263-1708	Size 7 8mm PS Insert Trial	1
20	263-1709	Size 7 9mm PS Insert Trial	1
21	263-1710	Size 7 10mm PS Insert Trial	1
22	263-1711	Size 7 11mm PS Insert Trial	1

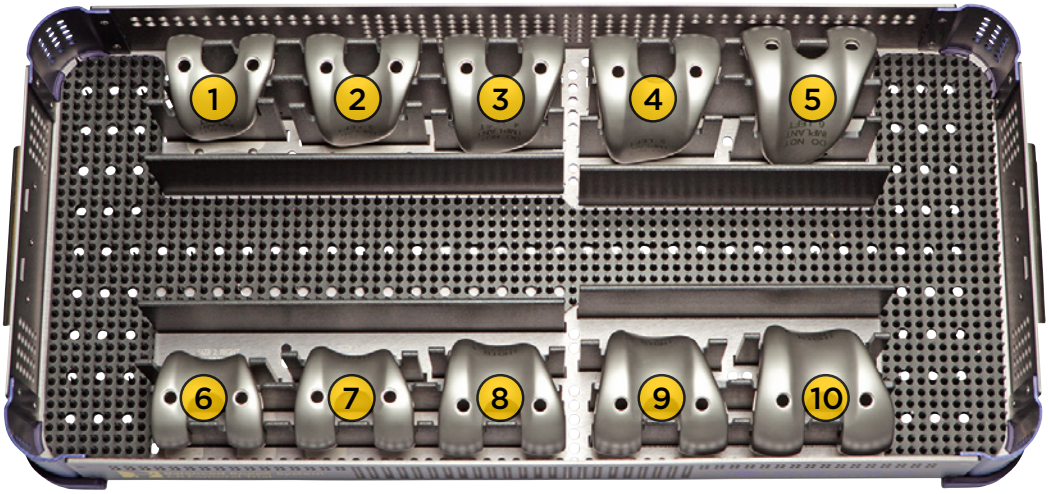
NUMBER	ITEM #	DESCRIPTION	QTY
23	263-1712	Size 7 12mm PS Insert Trial	1
24	263-1713	Size 7 13mm PS Insert Trial	1
25	263-1714	Size 7 14mm PS Insert Trial	1
26	263-1716	Size 7 16mm PS Insert Trial	1
27	263-1718	Size 7 18mm PS Insert Trial	1
28	263-1720	Size 7 20mm PS Insert Trial	1
29	263-2707	Size 7 7mm CR Insert Trial	1
30	263-2708	Size 7 8mm CR Insert Trial	1
31	263-2709	Size 7 9mm CR Insert Trial	1
32	263-2710	Size 7 10mm CR Insert Trial	1
33	263-2711	Size 7 11mm CR Insert Trial	1
34	263-2712	Size 7 12mm CR Insert Trial	1
35	263-2713	Size 7 13mm CR Insert Trial	1
36	263-2714	Size 7 14mm CR Insert Trial	1
37	263-2716	Size 7 16mm CR Insert Trial	1
38	263-2718	Size 7 18mm CR Insert Trial	1
39	263-2720	Size 7 20mm CR Insert Trial	1
not pictured	261-0187-01	Size 7 4-in-1 Taper A/P Cut Guide with Screw Holes Closed	1
not pictured	662-0207	Size 7 Tibial Tray Sizer Trial	1
	261-6100	BKS Case Lid	1
	261-6108A	Size 7 Instrument Case	1



261-9310A PS AND NARROW FEMORAL TRIAL TRAY

NUMBER	ITEM #	DESCRIPTION	QTY
1	261-1201	Size 2 LT PS Femoral Trial	1
2	261-1301	Size 3 LT PS Femoral Trial	1
3	261-1401	Size 4 LT PS Femoral Trial	1
4	261-1501	Size 5 LT PS Femoral Trial	1
5	261-1601	Size 6 LT PS Femoral Trial	1
6	261-1202	Size 2 RT PS Femoral Trial	1
7	261-1302	Size 3 RT PS Femoral Trial	1
8	261-1402	Size 4 RT PS Femoral Trial	1

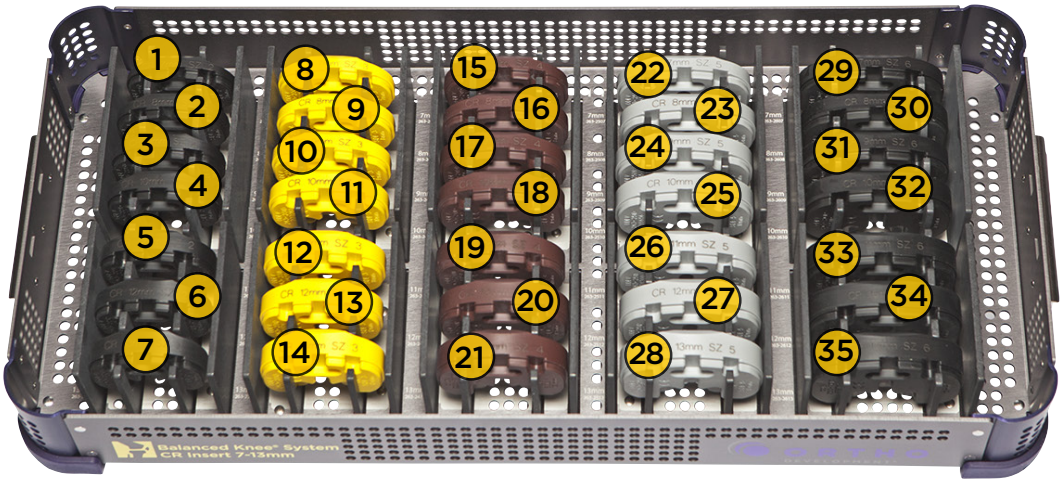
NUMBER	ITEM #	DESCRIPTION	QTY
9	261-1502	Size 5 RT PS Femoral Trial	1
10	261-1602	Size 6 RT PS Femoral Trial	1
Not Pictured	261-1405	Size 4 LT PS Narrow Femoral Trial	1
Not Pictured	261-1406	Size 4 RT PS Narrow Femoral Trial	1
Not Pictured	261-1505	Size 5 LT PS Narrow Femoral Trial	1
Not Pictured	261-1506	Size 5 RT PS Narrow Femoral Trial	1
	261-6100	BKS Case Lid	1
	261-6110	PS Trial Case	1



261-9311A CR AND NARROW FEMORAL TRIAL TRAY

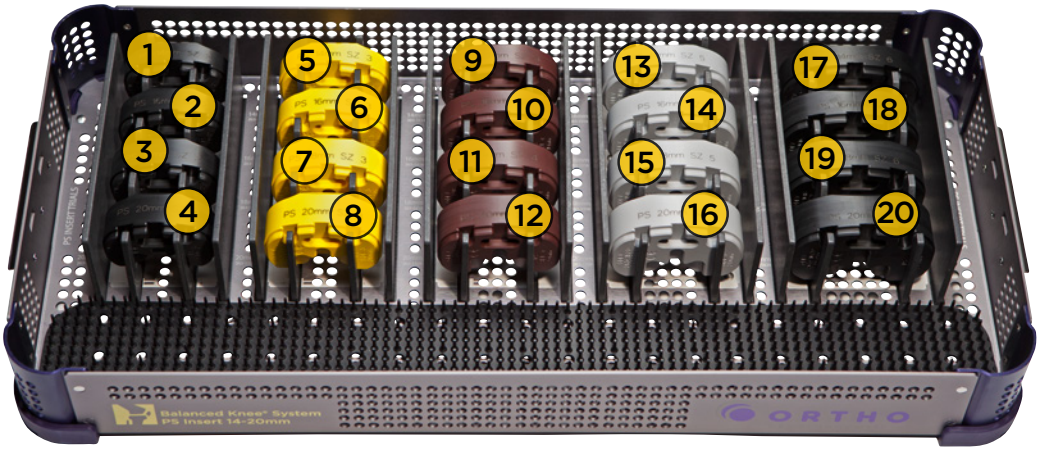
NUMBER	ITEM #	DESCRIPTION	QTY
1	261-3201	Size 2 LT CR Femoral Trial	1
2	261-3301	Size 3 LT CR Femoral Trial	1
3	261-3401	Size 4 LT CR Femoral Trial	1
4	261-3501	Size 5 LT CR Femoral Trial	1
5	261-3601	Size 6 LT CR Femoral Trial	1
6	261-3202	Size 2 RT CR Femoral Trial	1
7	261-3302	Size 3 RT CR Femoral Trial	1
8	261-3402	Size 4 RT CR Femoral Trial	1

NUMBER	ITEM #	DESCRIPTION	QTY
8	261-3402	Size 4 RT CR Femoral Trial	1
9	261-3502	Size 5 RT CR Femoral Trial	1
10	261-3602	Size 6 RT CR Femoral Trial	1
Not Pictured	261-3405	Size 4 LT CR Narrow Femoral Trial	1
Not Pictured	261-3406	Size 4 RT CR Narrow Femoral Trial	1
Not Pictured	261-3505	Size 5 LT CR Narrow Femoral Trial	1
Not Pictured	261-3506	Size 5 RT CR Narrow Femoral Trial	1
	261-6100	BKS Case Lid	1
	261-6111	CR Trial Case	1



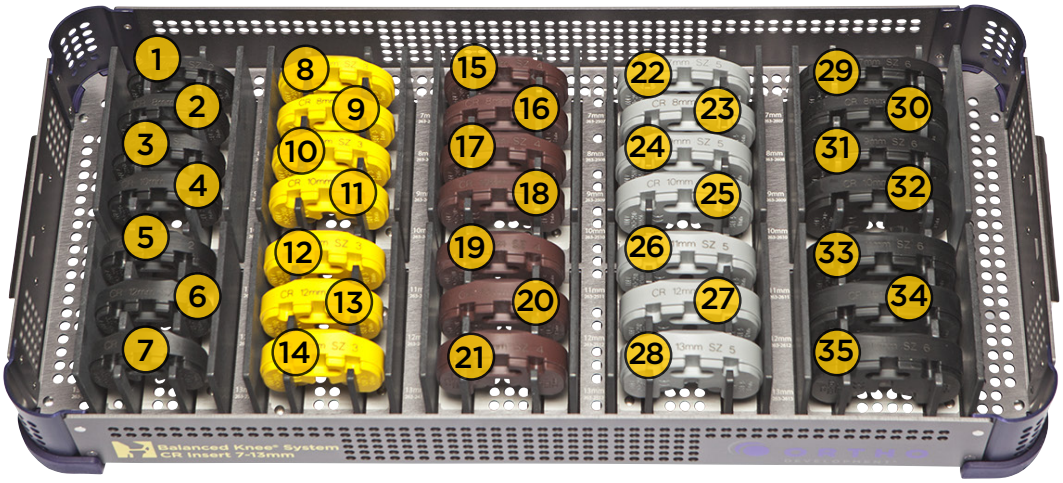
261-9320 PS INSERT TRIAL TRAY 7-13MM

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-1207	Size 2 7mm PS Insert Trial	1
2	263-1208	Size 2 8mm PS Insert Trial	1
3	263-1209	Size 2 9mm PS Insert Trial	1
4	263-1210	Size 2 10mm PS Insert Trial	1
5	263-1211	Size 2 11mm PS Insert Trial	1
6	263-1212	Size 2 12mm PS Insert Trial	1
7	263-1213	Size 2 13mm PS Insert Trial	1
8	263-1307	Size 3 7mm PS Insert Trial	1
9	263-1308	Size 3 8mm PS Insert Trial	1
10	263-1309	Size 3 9mm PS Insert Trial	1
11	263-1310	Size 3 10mm PS Insert Trial	1
12	263-1311	Size 3 11mm PS Insert Trial	1
13	263-1312	Size 3 12mm PS Insert Trial	1
14	263-1313	Size 3 13mm PS Insert Trial	1
15	263-1407	Size 4 7mm PS Insert Trial	1
16	263-1408	Size 4 8mm PS Insert Trial	1
17	263-1409	Size 4 9mm PS Insert Trial	1
18	263-1410	Size 4 10mm PS Insert Trial	1
19	263-1411	Size 4 11mm PS Insert Trial	1
20	263-1412	Size 4 12mm PS Insert Trial	1
21	263-1413	Size 4 13mm PS Insert Trial	1
22	263-1507	Size 5 7mm PS Insert Trial	1
23	263-1508	Size 5 8mm PS Insert Trial	1
24	263-1509	Size 5 9mm PS Insert Trial	1
25	263-1510	Size 5 10mm PS Insert Trial	1
26	263-1511	Size 5 11mm PS Insert Trial	1
27	263-1512	Size 5 12mm PS Insert Trial	1
28	263-1513	Size 5 13mm PS Insert Trial	1
29	263-1607	Size 6 7mm PS Insert Trial	1
30	263-1608	Size 6 8mm PS Insert Trial	1
31	263-1609	Size 6 9mm PS Insert Trial	1
32	263-1610	Size 6 10mm PS Insert Trial	1
33	263-1611	Size 6 11mm CR Insert Trial	1
34	263-1612	Size 6 12mm CR Insert Trial	1
35	263-1613	Size 6 13mm PS Insert Trial	1
	261-6100	BKS Case Lid	1
	261-6120	PS Insert Case 7-13mm	1



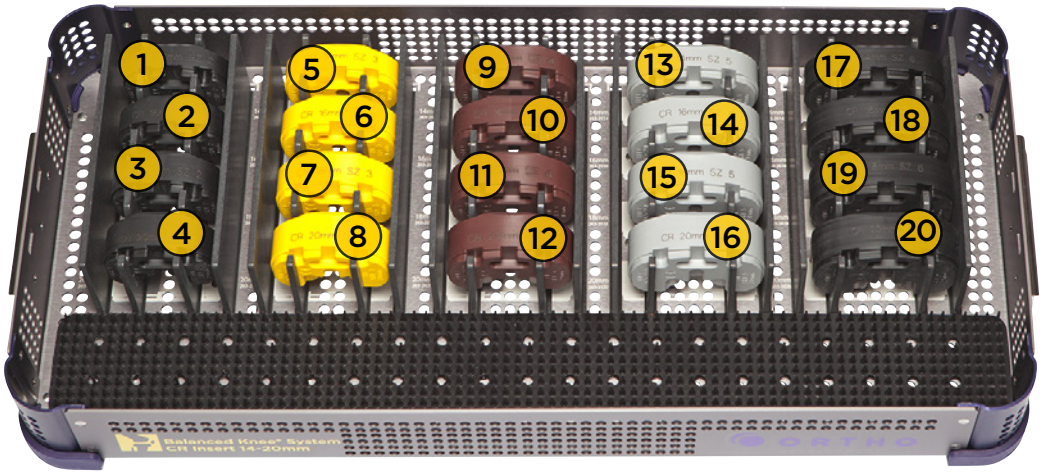
261-9321 PS INSERT TRIAL TRAY 14-20MM

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-1214	Size 2 14mm PS Insert Trial	1
2	263-1216	Size 2 16mm PS Insert Trial	1
3	263-1218	Size 2 18mm PS Insert Trial	1
4	263-1220	Size 2 20mm PS Insert Trial	1
5	263-1314	Size 3 14mm PS Insert Trial	1
6	263-1316	Size 3 16mm PS Insert Trial	1
7	263-1318	Size 3 18mm PS Insert Trial	1
8	263-1320	Size 3 20mm PS Insert Trial	1
9	263-1414	Size 4 14mm PS Insert Trial	1
10	263-1416	Size 4 16mm PS Insert Trial	1
11	263-1418	Size 4 18mm PS Insert Trial	1
12	263-1420	Size 4 20mm PS Insert Trial	1
13	263-1514	Size 5 14mm PS Insert Trial	1
14	263-1516	Size 5 16mm PS Insert Trial	1
15	263-1518	Size 5 18mm PS Insert Trial	1
16	263-1520	Size 5 20mm PS Insert Trial	1
17	263-1614	Size 6 14mm PS Insert Trial	1
18	263-1616	Size 6 16mm PS Insert Trial	1
19	263-1618	Size 6 18mm PS Insert Trial	1
20	263-1620	Size 6 20mm PS Insert Trial	1
	261-6100	BKS Case Lid	1
	261-6121	PS Insert Case 14-20mm	1



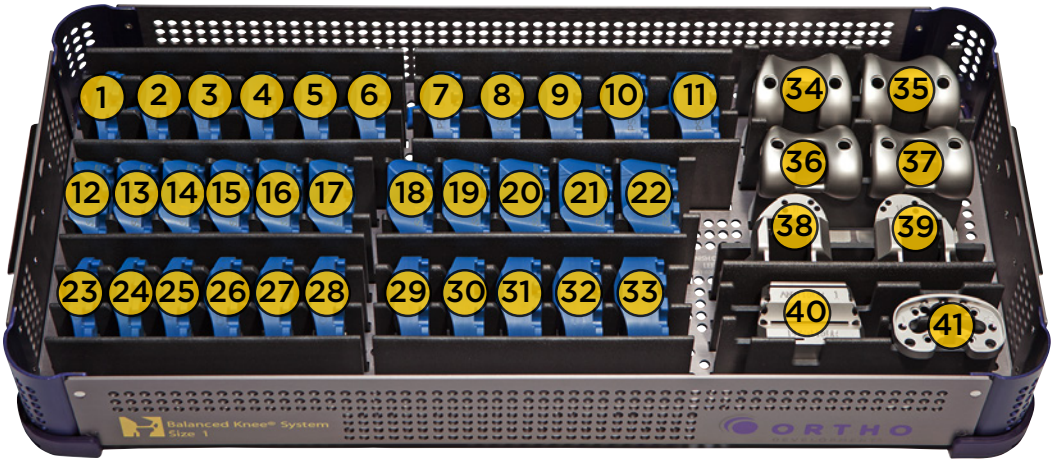
261-9322 CR INSERT TRIAL TRAY 7-13MM

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-2207	Size 2 7mm CR Insert Trial	1
2	263-2208	Size 2 8mm CR Insert Trial	1
3	263-2209	Size 2 9mm CR Insert Trial	1
4	263-2210	Size 2 10mm CR Insert Trial	1
5	263-2211	Size 2 11mm CR Insert Trial	1
6	263-2212	Size 2 12mm CR Insert Trial	1
7	263-2213	Size 2 13mm CR Insert Trial	1
8	263-2307	Size 3 7mm CR Insert Trial	1
9	263-2308	Size 3 8mm CR Insert Trial	1
10	263-2309	Size 3 9mm CR Insert Trial	1
11	263-2310	Size 3 10mm CR Insert Trial	1
12	263-2311	Size 3 11mm CR Insert Trial	1
13	263-2312	Size 3 12mm CR Insert Trial	1
14	263-2313	Size 3 13mm CR Insert Trial	1
15	263-2407	Size 4 7mm CR Insert Trial	1
16	263-2408	Size 4 8mm CR Insert Trial	1
17	263-2409	Size 4 9mm CR Insert Trial	1
18	263-2410	Size 4 10mm CR Insert Trial	1
19	263-2411	Size 4 11mm CR Insert Trial	1
20	263-2412	Size 4 12mm CR Insert Trial	1
21	263-2413	Size 4 13mm CR Insert Trial	1
22	263-2507	Size 5 7mm CR Insert Trial	1
23	263-2508	Size 5 8mm CR Insert Trial	1
24	263-2509	Size 5 9mm CR Insert Trial	1
25	263-2510	Size 5 10mm CR Insert Trial	1
26	263-2511	Size 5 11mm CR Insert Trial	1
27	263-2512	Size 5 12mm CR Insert Trial	1
28	263-2513	Size 5 13mm CR Insert Trial	1
29	263-2607	Size 6 7mm CR Insert Trial	1
30	263-2608	Size 6 8mm CR Insert Trial	1
31	263-2609	Size 6 9mm CR Insert Trial	1
32	263-2610	Size 6 10mm CR Insert Trial	1
33	263-2611	Size 6 11mm CR Insert Trial	1
34	263-2612	Size 6 12mm CR Insert Trial	1
35	263-2613	Size 6 13mm CR Insert Trial	1
	261-6100	BKS Case Lid	1
	261-6122	CR Insert Case 7-13mm	1



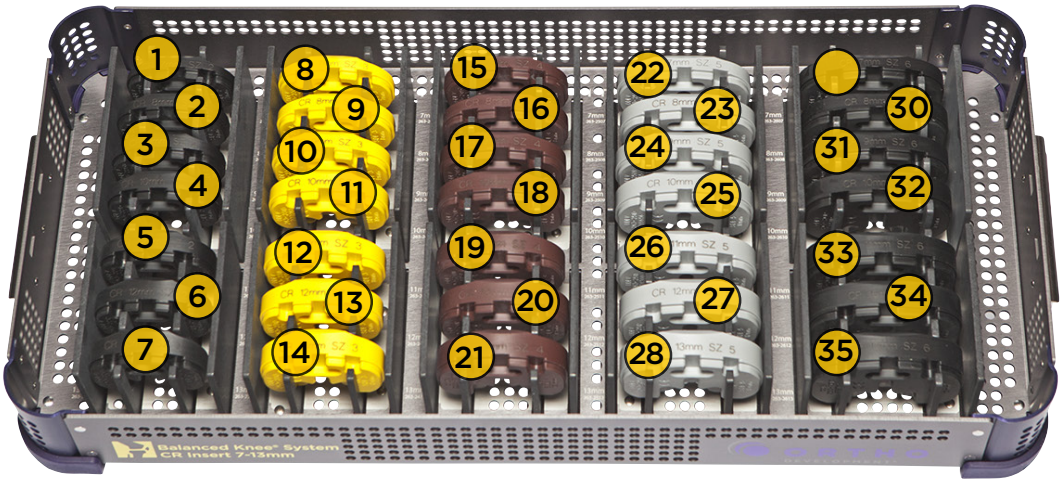
261-9323 CR INSERT TRIAL TRAY 14-20MM

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-2214	Size 2 14mm CR Insert Trial	1
2	263-2216	Size 2 16mm CR Insert Trial	1
3	263-2218	Size 2 18mm CR Insert Trial	1
4	263-2220	Size 2 20mm CR Insert Trial	1
5	263-2314	Size 3 14mm CR Insert Trial	1
6	263-2316	Size 3 16mm CR Insert Trial	1
7	263-2318	Size 3 18mm CR Insert Trial	1
8	263-2320	Size 3 20mm CR Insert Trial	1
9	263-2414	Size 4 14mm CR Insert Trial	1
10	263-2416	Size 4 16mm CR Insert Trial	1
11	263-2418	Size 4 18mm CR Insert Trial	1
12	263-2420	Size 4 20mm CR Insert Trial	1
13	263-2514	Size 5 14mm CR Insert Trial	1
14	263-2516	Size 5 16mm CR Insert Trial	1
15	263-2518	Size 5 18mm CR Insert Trial	1
16	263-2520	Size 5 20mm CR Insert Trial	1
17	263-2614	Size 6 14mm CR Insert Trial	1
18	263-2616	Size 6 16mm CR Insert Trial	1
19	263-2618	Size 6 18mm CR Insert Trial	1
20	263-2620	Size 6 20mm CR Insert Trial	1
	261-6100	BKS Case Lid	1
	261-6123	CR Insert Case 14-20mm	1



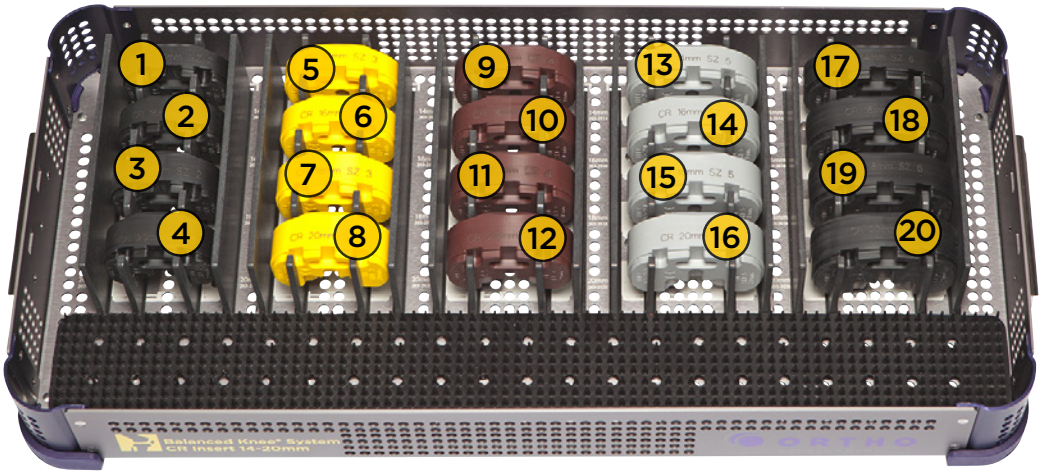
261-9307 SIZE 1 INSTRUMENT TRAY

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-1107	Size 1 7mm PS Insert Trial	1
2	263-1108	Size 1 8mm PS Insert Trial	1
3	263-1109	Size 1 9mm PS Insert Trial	1
4	263-1110	Size 1 10mm PS Insert Trial	1
5	263-1111	Size 1 11mm PS Insert Trial	1
6	263-1112	Size 1 12mm PS Insert Trial	1
7	263-1113	Size 1 13mm PS Insert Trial	1
8	263-1114	Size 1 14mm PS Insert Trial	1
9	263-1116	Size 1 16mm PS Insert Trial	1
10	263-1118	Size 1 18mm PS Insert Trial	1
11	263-1120	Size 1 20mm PS Insert Trial	1
12	263-3107	Size 1 7mm UC Insert Trial	1
13	263-3108	Size 1 8mm UC Insert Trial	1
14	263-3109	Size 1 9mm UC Insert Trial	1
15	263-3110	Size 1 10mm UC Insert Trial	1
16	263-3111	Size 1 11mm UC Insert Trial	1
17	263-3112	Size 1 12mm UC Insert Trial	1
18	263-3113	Size 1 13mm UC Insert Trial	1
19	263-3114	Size 1 14mm UC Insert Trial	1
20	263-3116	Size 1 16mm UC Insert Trial	1
21	263-3118	Size 1 18mm UC Insert Trial	1
22	263-3120	Size 1 20mm UC Insert Trial	1
23	263-2107	Size 1 7mm CR Insert Trial	1
24	263-2108	Size 1 8mm CR Insert Trial	1
25	263-2109	Size 1 9mm CR Insert Trial	1
26	263-2110	Size 1 10mm CR Insert Trial	1
27	263-2111	Size 1 11mm CR Insert Trial	1
28	263-2112	Size 1 12mm CR Insert Trial	1
29	263-2113	Size 1 13mm CR Insert Trial	1
30	263-2114	Size 1 14mm CR Insert Trial	1
31	263-2116	Size 1 16mm CR Insert Trial	1
32	263-2118	Size 1 18mm CR Insert Trial	1
33	263-2120	Size 1 20mm CR Insert Trial	1
34	261-3101	Size 1 LT CR Femoral Trial	1
35	261-3102	Size 1 RT CR Femoral Trial	1
36	261-1101	Size 1 LT PS Femoral Trial	1
37	261-1102	Size 1 RT PS Femoral Trial	1
38	261-0401	Size 1 LT MIS Finish Cut Guide	1
39	261-0407	Size 1 RT MIS Finish Cut Guide	1
40	261-0181	Size 1 4-in-1 Taper A/P Cut Guide Closed	1
41	662-0201	Size 1 Tibial Tray Sizer Trial	1
	261-6100	BKS Case Lid	1
	261-6107	Size 1 Instrument Case	1



261-9324 UC INSERT TRIAL TRAY

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-3207	Size 2 7mm UC Insert Trial	1
2	263-3208	Size 2 8mm UC Insert Trial	1
3	263-3209	Size 2 9mm UC Insert Trial	1
4	263-3210	Size 2 10mm UC Insert Trial	1
5	263-3211	Size 2 11mm UC Insert Trial	1
6	263-3212	Size 2 12mm UC Insert Trial	1
7	263-3213	Size 2 13mm UC Insert Trial	1
8	263-3307	Size 3 7mm UC Insert Trial	1
9	263-3308	Size 3 8mm UC Insert Trial	1
10	263-3309	Size 3 9mm UC Insert Trial	1
11	263-3310	Size 3 10mm UC Insert Trial	1
12	263-3311	Size 3 11mm UC Insert Trial	1
13	263-3312	Size 3 12mm UC Insert Trial	1
14	263-3313	Size 3 13mm UC Insert Trial	1
15	263-3407	Size 4 7mm UC Insert Trial	1
16	263-3408	Size 4 8mm UC Insert Trial	1
17	263-3409	Size 4 9mm UC Insert Trial	1
18	263-3410	Size 4 10mm UC Insert Trial	1
19	263-3411	Size 4 11mm UC Insert Trial	1
20	263-3412	Size 4 12mm UC Insert Trial	1
21	263-3413	Size 4 13mm UC Insert Trial	1
22	263-3507	Size 5 7mm UC Insert Trial	1
23	263-3508	Size 5 8mm UC Insert Trial	1
24	263-3509	Size 5 9mm UC Insert Trial	1
25	263-3510	Size 5 10mm UC Insert Trial	1
26	263-3511	Size 5 11mm UC Insert Trial	1
27	263-3512	Size 5 12mm UC Insert Trial	1
28	263-3513	Size 5 13mm UC Insert Trial	1
29	263-3607	Size 6 7mm UC Insert Trial	1
30	263-3608	Size 6 8mm UC Insert Trial	1
31	263-3609	Size 6 9mm UC Insert Trial	1
32	263-3610	Size 6 10mm UC Insert Trial	1
33	263-3611	Size 6 11mm UC Insert Trial	1
34	263-3612	Size 6 12mm UC Insert Trial	1
35	263-3613	Size 6 13mm UC Insert Trial	1
	261-6100	BKS Case Lid	1
	261-6124	UC Insert Case 7-13mm	1



261-9325 UC INSERT TRIAL TRAY 14-20MM

NUMBER	ITEM #	DESCRIPTION	QTY
1	263-3214	Size 2 14mm UC Insert Trial	1
2	263-3216	Size 2 16mm UC Insert Trial	1
3	263-3218	Size 2 18mm UC Insert Trial	1
4	263-3220	Size 2 20mm UC Insert Trial	1
5	263-3314	Size 3 14mm UC Insert Trial	1
6	263-3316	Size 3 16mm UC Insert Trial	1
7	263-3318	Size 3 18mm UC Insert Trial	1
8	263-3320	Size 3 20mm UC Insert Trial	1
9	263-3414	Size 4 14mm UC Insert Trial	1
10	263-3416	Size 4 16mm UC Insert Trial	1
11	263-3418	Size 4 18mm UC Insert Trial	1
12	263-3420	Size 4 20mm UC Insert Trial	1
13	263-3514	Size 5 14mm UC Insert Trial	1
14	263-3516	Size 5 16mm UC Insert Trial	1
15	263-3518	Size 5 18mm UC Insert Trial	1
16	263-3520	Size 5 20mm UC Insert Trial	1
17	263-3614	Size 6 14mm UC Insert Trial	1
18	263-3616	Size 6 16mm UC Insert Trial	1
19	263-3618	Size 6 18mm UC Insert Trial	1
20	263-3620	Size 6 20mm UC Insert Trial	1
	261-6100	BKS Case Lid	1
	261-6125	UC Insert Case 14-20mm	1

Balanced Knee® System Implants

PS - POSTERIOR STABILIZED FEMORAL NONPOROUS

NUMBER	ITEM #	DESCRIPTION
1	161-1101	PS Femoral Nonporous LT Size 1
2	161-1201	PS Femoral Nonporous LT Size 2
3	161-1301	PS Femoral Nonporous LT Size 3
4	161-1401	PS Femoral Nonporous LT Size 4
5	161-1501	PS Femoral Nonporous LT Size 5
6	161-1601	PS Femoral Nonporous LT Size 6
7	161-1701	PS Femoral Nonporous LT Size 7
8	161-1102	PS Femoral Nonporous RT Size 1
9	161-1202	PS Femoral Nonporous RT Size 2
10	161-1302	PS Femoral Nonporous RT Size 3
11	161-1402	PS Femoral Nonporous RT Size 4
12	161-1502	PS Femoral Nonporous RT Size 5
13	161-1602	PS Femoral Nonporous RT Size 6
14	161-1702	PS Femoral Nonporous RT Size 7
15	163-1210	PS Tibial Insert Size 2 10mm
16	163-1212	PS Tibial Insert Size 2 12mm
17	163-1214	PS Tibial Insert Size 2 14mm

PS - POSTERIOR STABILIZED FEMORAL NONPOROUS - NARROW

NUMBER	ITEM #	DESCRIPTION
1	161-1405	PS Narrow Femoral Nonporous LT Size 4
2	161-1505	PS Narrow Femoral Nonporous LT Size 5
3	161-1406	PS Narrow Femoral Nonporous RT Size 4
4	161-1506	PS Narrow Femoral Nonporous RT Size 5

PS-C - POSTERIOR STABILIZED FEMORAL NONPOROUS (WITHOUT PEGS)

NUMBER	ITEM #	DESCRIPTION
1	161-1103	Femoral Nonporous LT Size 1
2	161-1203	Femoral Nonporous LT Size 2
3	161-1303	Femoral Nonporous LT Size 3
4	161-1403	Femoral Nonporous LT Size 4
5	161-1503	Femoral Nonporous LT Size 5
6	161-1603	Femoral Nonporous LT Size 6
7	161-1703	Femoral Nonporous LT Size 7
8	161-1704	Femoral Nonporous RT Size 7
9	161-1104	Femoral Nonporous RT Size 1
10	161-1204	Femoral Nonporous RT Size 2
11	161-1304	Femoral Nonporous RT Size 3
12	161-1404	Femoral Nonporous RT Size 4
13	161-1504	Femoral Nonporous RT Size 5
14	161-1604	Femoral Nonporous RT Size 6

CR - CRUCIATE RETAINING FEMORAL NONPOROUS

NUMBER	ITEM #	DESCRIPTION
1	161-3101	CR Femoral Nonporous LT Size 1
2	161-3201	CR Femoral Nonporous LT Size 2
3	161-3301	CR Femoral Nonporous LT Size 3
4	161-3401	CR Femoral Nonporous LT Size 4
5	161-3501	CR Femoral Nonporous LT Size 5
6	161-3601	CR Femoral Nonporous LT Size 6
7	161-3701	CR Femoral Nonporous LT Size 7
8	161-3102	CR Femoral Nonporous RT Size 1
9	161-3202	CR Femoral Nonporous RT Size 2
10	161-3302	CR Femoral Nonporous RT Size 3
11	161-3402	CR Femoral Nonporous RT Size 4
12	161-3502	CR Femoral Nonporous RT Size 5
13	161-3602	CR Femoral Nonporous RT Size 6
14	161-3702	CR Femoral Nonporous RT Size 7

CR - CRUCIATE RETAINING FEMORAL NONPOROUS - NARROW

NUMBER	ITEM #	DESCRIPTION
1	161-3405	CR-Narrow Femoral Nonporous LT Size 4
2	161-3505	CR-Narrow Femoral Nonporous LT Size 5
3	161-3406	CR-Narrow Femoral Nonporous RT Size 4
4	161-3506	CR-Narrow Femoral Nonporous RT Size 5

TIBIAL TRAY NONPOROUS

NUMBER	ITEM #	DESCRIPTION
1	162-1100A	Tibial Tray Nonporous A Size 1
2	162-1200A	Tibial Tray Nonporous A Size 2
3	162-1300A	Tibial Tray Nonporous A Size 3
4	162-1400A	Tibial Tray Nonporous A Size 4
5	162-1500A	Tibial Tray Nonporous A Size 5
6	162-1600A	Tibial Tray Nonporous A Size 6
7	162-1700A	Tibial Tray Nonporous A Size 7

PS - POSTERIOR STABILIZED TIBIAL INSERT

NUMBER	ITEM #	DESCRIPTION
1	163-1107	PS Tibial Insert Size 1 7mm
2	163-1108	PS Tibial Insert Size 1 8mm
3	163-1109	PS Tibial Insert Size 1 9mm
4	163-1110	PS Tibial Insert Size 1 10mm
5	163-1111	PS Tibial Insert Size 1 11mm
6	163-1112	PS Tibial Insert Size 1 12mm
7	163-1113	PS Tibial Insert Size 1 13mm
8	163-1114	PS Tibial Insert Size 1 14mm
9	163-1116	PS Tibial Insert Size 1 16mm
10	163-1118	PS Tibial Insert Size 1 18mm
11	163-1120	PS Tibial Insert Size 1 20mm
12	163-1207	PS Tibial Insert Size 2 7mm
13	163-1208	PS Tibial Insert Size 2 8mm
14	163-1209	PS Tibial Insert Size 2 9mm
15	163-1210	PS Tibial Insert Size 2 10mm
16	163-1212	PS Tibial Insert Size 2 12mm
17	163-1214	PS Tibial Insert Size 2 14mm
18	163-1211	PS Tibial Insert Size 2 11mm
19	163-1213	PS Tibial Insert Size 2 13mm
20	163-1216	PS Tibial Insert Size 2 16mm
21	163-1218	PS Tibial Insert Size 2 18mm
22	163-1220	PS Tibial Insert Size 2 20mm
23	163-1307	PS Tibial Insert Size 3 7mm
24	163-1308	PS Tibial Insert Size 3 8mm
25	163-1309	PS Tibial Insert Size 3 9mm
26	163-1310	PS Tibial Insert Size 3 10mm
27	163-1311	PS Tibial Insert Size 3 11mm
28	163-1312	PS Tibial Insert Size 3 12mm
29	163-1313	PS Tibial Insert Size 3 13mm
30	163-1314	PS Tibial Insert Size 3 14mm
31	163-1316	PS Tibial Insert Size 3 16mm
32	163-1318	PS Tibial Insert Size 3 18mm
33	163-1320	PS Tibial Insert Size 3 20mm
34	163-1407	PS Tibial Insert Size 4 7mm
35	163-1408	PS Tibial Insert Size 4 8mm
36	163-1409	PS Tibial Insert Size 4 9mm
37	163-1410	PS Tibial Insert Size 4 10mm
38	163-1411	PS Tibial Insert Size 4 11mm
39	163-1412	PS Tibial Insert Size 4 12mm
40	163-1413	PS Tibial Insert Size 4 13mm
41	163-1414	PS Tibial Insert Size 4 14mm
42	163-1416	PS Tibial Insert Size 4 16mm
43	163-1418	PS Tibial Insert Size 4 18mm
44	163-1420	PS Tibial Insert Size 4 20mm
45	163-1507	PS Tibial Insert Size 5 7mm
46	163-1508	PS Tibial Insert Size 5 8mm
47	163-1509	PS Tibial Insert Size 5 9mm
48	163-1510	PS Tibial Insert Size 5 10mm
49	163-1511	PS Tibial Insert Size 5 11mm
50	163-1512	PS Tibial Insert Size 5 12mm
51	163-1513	PS Tibial Insert Size 5 13mm
52	163-1514	PS Tibial Insert Size 5 14mm
53	163-1516	PS Tibial Insert Size 5 16mm
54	163-1518	PS Tibial Insert Size 5 18mm
55	163-1520	PS Tibial Insert Size 5 20mm

PS - POSTERIOR STABILIZED TIBIAL INSERT

NUMBER	ITEM #	DESCRIPTION
56	163-1607	PS Tibial Insert Size 6 7mm
57	163-1608	PS Tibial Insert Size 6 8mm
58	163-1609	PS Tibial Insert Size 6 9mm
59	163-1610	PS Tibial Insert Size 6 10mm
60	163-1611	PS Tibial Insert Size 6 11mm
61	163-1612	PS Tibial Insert Size 6 12mm
62	163-1613	PS Tibial Insert Size 6 13mm
63	163-1614	PS Tibial Insert Size 6 14mm
64	163-1616	PS Tibial Insert Size 6 16mm
65	163-1618	PS Tibial Insert Size 6 18mm
66	163-1620	PS Tibial Insert Size 6 20mm
67	163-1707	PS Tibial Insert Size 7 7mm
68	163-1708	PS Tibial Insert Size 7 8mm
69	163-1709	PS Tibial Insert Size 7 9mm
70	163-1710	PS Tibial Insert Size 7 10mm
71	163-1711	PS Tibial Insert Size 7 11mm
72	163-1712	PS Tibial Insert Size 7 12mm
73	163-1713	PS Tibial Insert Size 7 13mm
74	163-1714	PS Tibial Insert Size 7 14mm
75	163-1716	PS Tibial Insert Size 7 16mm
76	163-1718	PS Tibial Insert Size 7 18mm
77	163-1720	PS Tibial Insert Size 7 20mm

CR - CRUCIATE RETAINING TIBIAL INSERT

NUMBER	ITEM #	DESCRIPTION
1	163-2107	CR Tibial Insert Size 1 7mm
2	163-2108	CR Tibial Insert Size 1 8mm
3	163-2109	CR Tibial Insert Size 1 9mm
4	163-2110	CR Tibial Insert Size 1 10mm
5	163-2111	CR Tibial Insert Size 1 11mm
6	163-2112	CR Tibial Insert Size 1 12mm
7	163-2113	CR Tibial Insert Size 1 13mm
8	163-2114	CR Tibial Insert Size 1 14mm
9	163-2116	CR Tibial Insert Size 1 16mm
10	163-2118	CR Tibial Insert Size 1 18mm
11	163-2120	CR Tibial Insert Size 1 20mm
12	163-2207	CR Tibial Insert Size 2 7mm
13	163-2208	CR Tibial Insert Size 2 8mm
14	163-2209	CR Tibial Insert Size 2 9mm
15	163-2210	CR Tibial Insert Size 2 10mm
16	163-2211	CR Tibial Insert Size 2 11mm
17	163-2212	CR Tibial Insert Size 2 12mm
18	163-2213	CR Tibial Insert Size 2 13mm
19	163-2214	CR Tibial Insert Size 2 14mm
20	163-2216	CR Tibial Insert Size 2 16mm
21	163-2218	CR Tibial Insert Size 2 18mm
22	163-2220	CR Tibial Insert Size 2 20mm
23	163-2307	CR Tibial Insert Size 3 7mm
24	163-2308	CR Tibial Insert Size 3 8mm
25	163-2309	CR Tibial Insert Size 3 9mm
26	163-2310	CR Tibial Insert Size 3 10mm
27	163-2311	CR Tibial Insert Size 3 11mm
28	163-2312	CR Tibial Insert Size 3 12mm
29	163-2313	CR Tibial Insert Size 3 13mm
30	163-2314	CR Tibial Insert Size 3 14mm
31	163-2316	CR Tibial Insert Size 3 16mm
32	163-2318	CR Tibial Insert Size 3 18mm
33	163-2320	CR Tibial Insert Size 3 20mm
34	163-2407	CR Tibial Insert Size 4 7mm
35	163-2408	CR Tibial Insert Size 4 8mm
36	163-2409	CR Tibial Insert Size 4 9mm
37	163-2410	CR Tibial Insert Size 4 10mm
38	163-2411	CR Tibial Insert Size 4 11mm
39	163-2412	CR Tibial Insert Size 4 12mm
40	163-2413	CR Tibial Insert Size 4 13mm
41	163-2414	CR Tibial Insert Size 4 14mm
42	163-2416	CR Tibial Insert Size 4 16mm
43	163-2418	CR Tibial Insert Size 4 18mm
44	163-2420	CR Tibial Insert Size 4 20mm
45	163-2507	CR Tibial Insert Size 5 7mm
46	163-2508	CR Tibial Insert Size 5 8mm
47	163-2509	CR Tibial Insert Size 5 9mm
48	163-2510	CR Tibial Insert Size 5 10mm
49	163-2511	CR Tibial Insert Size 5 11mm
50	163-2512	CR Tibial Insert Size 5 12mm
51	163-2513	CR Tibial Insert Size 5 13mm
52	163-2514	CR Tibial Insert Size 5 14mm
53	163-2516	CR Tibial Insert Size 5 16mm
54	163-2518	CR Tibial Insert Size 5 18mm
55	163-2520	CR Tibial Insert Size 5 20mm

CR - CRUCIATE RETAINING TIBIAL INSERT

NUMBER	ITEM #	DESCRIPTION
56	163-2607	CR Tibial Insert Size 6 7mm
57	163-2608	CR Tibial Insert Size 6 8mm
58	163-2609	CR Tibial Insert Size 6 9mm
59	163-2610	CR Tibial Insert Size 6 10mm
60	163-2611	CR Tibial Insert Size 6 11mm
61	163-2612	CR Tibial Insert Size 6 12mm
62	163-2613	CR Tibial Insert Size 6 13mm
63	163-2614	CR Tibial Insert Size 6 14mm
64	163-2616	CR Tibial Insert Size 6 16mm
65	163-2618	CR Tibial Insert Size 6 18mm
66	163-2620	CR Tibial Insert Size 6 20mm
67	163-2707	CR Tibial Insert Size 7 7mm
68	163-2708	CR Tibial Insert Size 7 8mm
69	163-2709	CR Tibial Insert Size 7 9mm
70	163-2710	CR Tibial Insert Size 7 10mm
71	163-2711	CR Tibial Insert Size 7 11mm
72	163-2712	CR Tibial Insert Size 7 12mm
73	163-2713	CR Tibial Insert Size 7 13mm
74	163-2714	CR Tibial Insert Size 7 14mm
75	163-2716	CR Tibial Insert Size 7 16mm
76	163-2718	CR Tibial Insert Size 7 18mm
77	163-2720	CR Tibial Insert Size 7 20mm

UC - ULTRACONGRUENT TIBIAL INSERT

NUMBER	ITEM #	DESCRIPTION
1	163-3107	UC Tibial Insert Size 1 7mm
2	163-3108	UC Tibial Insert Size 1 8mm
3	163-3109	UC Tibial Insert Size 1 9mm
4	163-3110	UC Tibial Insert Size 1 10mm
5	163-3111	UC Tibial Insert Size 1 11mm
6	163-3112	UC Tibial Insert Size 1 12mm
7	163-3113	UC Tibial Insert Size 1 13mm
8	163-3114	UC Tibial Insert Size 1 14mm
9	163-3116	UC Tibial Insert Size 1 16mm
10	163-3118	UC Tibial Insert Size 1 18mm
11	163-3120	UC Tibial Insert Size 1 20mm
12	163-3207	UC Tibial Insert Size 2 7mm
13	163-3208	UC Tibial Insert Size 2 8mm
14	163-3209	UC Tibial Insert Size 2 9mm
15	163-3210	UC Tibial Insert Size 2 10mm
16	163-3211	UC Tibial Insert Size 2 11mm
17	163-3212	UC Tibial Insert Size 2 12mm
18	163-3213	UC Tibial Insert Size 2 13mm
19	163-3214	UC Tibial Insert Size 2 14mm
20	163-3216	UC Tibial Insert Size 2 16mm
21	163-3218	UC Tibial Insert Size 2 18mm
22	163-3220	UC Tibial Insert Size 2 20mm
23	163-3307	UC Tibial Insert Size 3 7mm
24	163-3308	UC Tibial Insert Size 3 8mm
25	163-3309	UC Tibial Insert Size 3 9mm
26	163-3310	UC Tibial Insert Size 3 10mm
27	163-3311	UC Tibial Insert Size 3 11mm
28	163-3312	UC Tibial Insert Size 3 12mm
29	163-3313	UC Tibial Insert Size 3 13mm
30	163-3314	UC Tibial Insert Size 3 14mm
31	163-3316	UC Tibial Insert Size 3 16 mm
32	163-3318	UC Tibial Insert Size 3 18mm
33	163-3320	UC Tibial Insert Size 3 20mm
34	163-3407	UC Tibial Insert Size 4 7mm
35	163-3408	UC Tibial Insert Size 4 8mm
36	163-3409	UC Tibial Insert Size 4 9mm
37	163-3410	UC Tibial Insert Size 4 10mm
38	163-3411	UC Tibial Insert Size 4 11mm
39	163-3412	UC Tibial Insert Size 4 12mm
40	163-3413	UC Tibial Insert Size 4 13mm
41	163-3414	UC Tibial Insert Size 4 14mm
42	163-3416	UC Tibial Insert Size 4 16mm
43	163-3418	UC Tibial Insert Size 4 18mm
44	163-3420	UC Tibial Insert Size 4 20mm
45	163-3507	UC Tibial Insert Size 5 7mm
46	163-3508	UC Tibial Insert Size 5 8mm
47	163-3509	UC Tibial Insert Size 5 9mm
48	163-3510	UC Tibial Insert Size 5 10mm
49	163-3511	UC Tibial Insert Size 5 11mm
50	163-3512	UC Tibial Insert Size 5 12mm
51	163-3513	UC Tibial Insert Size 5 13mm
52	163-3514	UC Tibial Insert Size 5 14mm
53	163-3516	UC Tibial Insert Size 5 16mm
54	163-3518	UC Tibial Insert Size 5 18mm
55	163-3520	UC Tibial Insert Size 5 20mm

UC - ULTRACONGRUENT TIBIAL INSERT

NUMBER	ITEM #	DESCRIPTION
56	163-3607	UC Tibial Insert Size 6 7mm
57	163-3608	UC Tibial Insert Size 6 8mm
58	163-3609	UC Tibial Insert Size 6 9mm
59	163-3610	UC Tibial Insert Size 6 10mm
60	163-3611	UC Tibial Insert Size 6 11mm
61	163-3612	UC Tibial Insert Size 6 12mm
62	163-3613	UC Tibial Insert Size 6 13mm
63	163-3614	UC Tibial Insert Size 6 14mm
64	163-3616	UC Tibial Insert Size 6 16mm
65	163-3618	UC Tibial Insert Size 6 18mm
66	163-3620	UC Tibial Insert Size 6 20mm
67	163-3707	UC Tibial Insert Size 7 7mm
68	163-3708	UC Tibial Insert Size 7 8mm
69	163-3709	UC Tibial Insert Size 7 9mm
70	163-3710	UC Tibial Insert Size 7 10mm
71	163-3711	UC Tibial Insert Size 7 11mm
72	163-3712	UC Tibial Insert Size 7 12mm
73	163-3713	UC Tibial Insert Size 7 13mm
74	163-3714	UC Tibial Insert Size 7 14mm
75	163-3716	UC Tibial Insert Size 7 16mm
76	163-3718	UC Tibial Insert Size 7 18mm
77	163-3720	UC Tibial Insert Size 7 20mm

PATELLA

NUMBER	ITEM #	DESCRIPTION
164-0029	Patella 29mm	UC Tibial Insert Size 6 7mm
164-0032	Patella 32mm	UC Tibial Insert Size 6 8mm
164-0035	Patella 35mm	UC Tibial Insert Size 6 9mm
164-0038	Patella 38mm	UC Tibial Insert Size 6 10mm

Ortho Development® Corporation designs, manufactures, and distributes orthopedic implants and related surgical instrumentation—with a specialty focus on hip and knee joint replacement, trauma fracture repair, and basic spinal fixation. Ortho was founded in 1994 and is located at the base of the Wasatch Mountains in the Salt Lake City suburb of Draper, Utah. The company has established distribution throughout the United States and Japan, along with other select international markets.

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