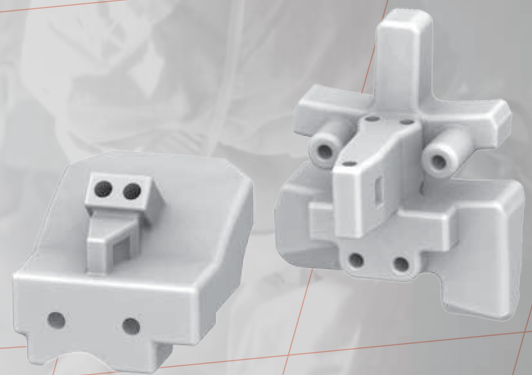


# PROPHECY<sup>®</sup> INFINITY<sup>®</sup>

Pre-Operative Navigation Guides

SURGICAL TECHNIQUE



# PROPHECY® INFINITY®

Pre-Operative Navigation Guides

SURGICAL TECHNIQUE

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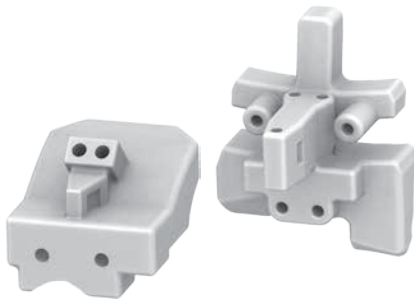
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*Proper surgical procedures and techniques are the responsibility of the medical professional. The following guidelines are furnished for information purposes only. Each surgeon must evaluate the appropriateness of the procedures based on his or her personal medical training and experience. Prior to use of the system, the surgeon should refer to the product package inserts (145283) for complete warnings, precautions, indications, contraindications and adverse effects. Package inserts are also available by contacting the manufacturer. Contact information can be found on the back of this surgical technique and the package insert is available on the website listed: [wmt.com](http://wmt.com), under the link for Prescribing Information.*

*Please contact your local Wright representative for product availability.*



## PROPHECY® INFINITY® Alignment Guide Product Information

These surgical instruments are designed for single use only. They are manufactured with certain patient-specific features, which render them unusable in cases other than that for which they were designed. These surgical instruments are supplied clean and non-sterile, and must be sterilized before use. After use, these instruments must be properly disposed of. Please refer to the PROPHECY® INFINITY® Instrument package insert #146636 for instructions on the proper steps for processing Wright Medical disposable surgical instruments.

### Intended Use

Wright's PROPHECY® INFINITY® Preoperative Navigation Alignment Guides are intended to be used as patient-specific surgical instrumentation to assist in the positioning of total ankle replacement components intra-operatively and in guiding the marking of bone before cutting. The PROPHECY® INFINITY® Preoperative Navigation Alignment Guides are intended for use with Wright's INFINITY® Total Ankle Systems and their cleared indications for use, provided that anatomic landmarks necessary for alignment and positioning of the implant are identifiable on patient imaging scans. The PROPHECY® INFINITY® Preoperative Navigation Alignment Guides are intended for single use only.



## INFINITY® Total Ankle Product Information

Through the advancement of partial and total joint replacement, the surgeon has been provided with a means of restoring mobility, correcting deformity, and reducing pain for many patients. While the prostheses used are largely successful in attaining these goals, it must be recognized that they are manufactured from a variety of materials and that any joint replacement system, therefore, cannot be expected to withstand activity levels and loads as would normal healthy bone. In addition, the system, including the implant/bone interface, will not be as strong, reliable, or durable as a natural human joint.

Ankle joint replacement components consist of a talar dome, a tibial platform, and an UHMWPE component. Components are available in a variety of sizes and design configurations intended for both primary and revision applications.

## Indications

The INFINITY® Total Ankle is indicated for patients with ankle joints damaged by severe rheumatoid, post-traumatic, or degenerative arthritis.

The INFINITY® Total Ankle is additionally indicated for patients with a failed previous ankle surgery.

**CAUTION: The ankle prosthesis is intended for cement use only.**

## Contraindications

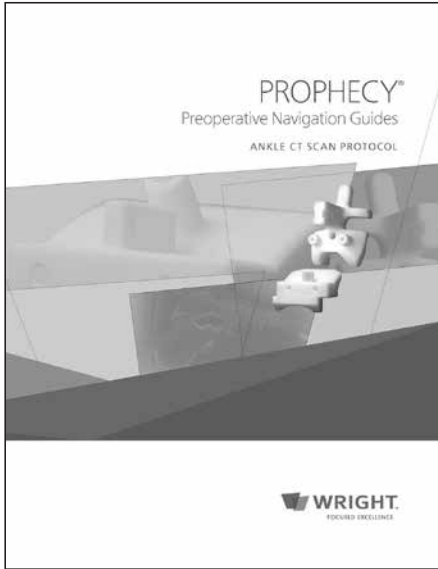
### **Absolute contraindications include:**

1. osteomyelitis;
2. excessive bone loss at the ankle joint site;
3. steroid use;
4. infection at the ankle site or infections at distant sites that could migrate to the ankle;
5. sepsis;
6. muscular atrophy;
7. dementia;
8. vascular deficiency in the ankle joint;
9. skeletally immature patients (patient is less than 21 years of age at the time of surgery);
10. cases where there is inadequate neuromuscular status (e.g., prior paralysis, fusion and/ or inadequate abductor strength), poor bone stock, poor skin coverage around the joint which would make the procedure unjustifiable;
11. neuropathic joints;
12. hepatitis or HIV infection;
13. excessive loads as caused by activity or patient weight;
14. female of childbearing age, for whom a negative pregnancy test is not obtained; and,
15. neurological or musculoskeletal disease that may adversely affect gait or weightbearing.

### **Conditions presenting increased risk of failure include:**

1. uncooperative patient or patient with neurologic disorders, incapable of following instructions;
2. marked bone loss, severe osteoporosis, or revision procedures for which an adequate fit of the prosthesis cannot be achieved;
3. metabolic disorders that may impair bone formation;
4. osteomalacia; and,
5. poor prognosis for good wound healing (e.g., decubitus ulcer, end-stage diabetes, severe protein deficiency and/or malnutrition).

***Prior to use of the system, the surgeon should refer to the product package insert for complete warnings, precautions, indications, contraindications and adverse effects. Package inserts are also available by contacting the manufacturer. Contact information can be found on the back of this surgical technique and the package insert is available on the website listed.***



*PROPHECY® Ankle CT Scan Protocol  
#008380*

## CT Scan Protocol

PROPHECY® INFINITY® Preoperative Navigation Guides are patient-specific instruments designed using patient anatomy from a CT scan of the patient's extremity. One significant requirement for a successful case is adhering to the PROPHECY® Ankle CT Scan Protocol document. Engineers at Wright Medical Technology have determined the necessary scanning parameters which are described in document #008380 and can be found on our website (<http://documents.wmt.com/Document/Get/008380>).

In every case, please have the scanning facility follow the specific instructions outlined in this document.

The Centers for Medicare & Medicaid Services (CMS) established a National Coverage Determination (NCD) for CT Scans. It states, in part, the following, "Diagnostic examinations of the head (head scans) and of other parts of the body (body scans) performed by computerized tomography (CT) scanners are covered if medical and scientific literature and opinion support the effective use of a scan for the condition, and the scan is: (1) reasonable and necessary for the individual patient." CTs performed prior to total joint replacement procedures for diagnostic purposes may be considered medically necessary. In which case, the procedure should be billed using the CPT codes that accurately describe the imaging procedure furnished to the patient. These same images from the diagnostic CT scan may, in turn, be further utilized for developing the personalized cutting or navigation guides that are used in orthopaedic procedures. However, if providers perform CT scans solely for the purpose of developing personalized cutting instruments or guides, providers should contact the payer for billing and coverage guidance and/or the American College of Radiology with billing questions.

# Surgical Technique

## Tibial Alignment Guide Fluoroscopic Check Assembly

To enhance fluoroscopic visualization of the PROPHECY® Tibia Alignment Guide (PROPINF or PROPINFE [EU only] ) it is recommended to place metallic markers in the guide prior to placement on the patient. Begin by using a pair of Pin Cutters (200427) to remove the sharp end of a 2.4 Steinmann Pin (200072). | **FIGURE 1** Note that it may be helpful to use a needle driver to retain the cut ends of the Pin. | **FIGURE 2**



| FIGURE 1



| FIGURE 2

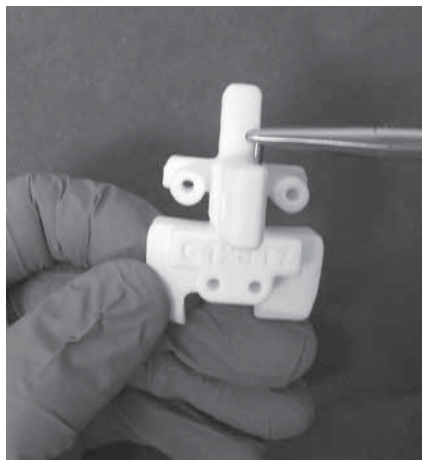
Cut two ½" (or 12mm) segments of the Steinmann Pin and insert by hand into the two vertical holes in the PROPHECY® Tibia Guide. | **FIGURE 3**



PROPHECY® Tibia Alignment Guide  
PROPINF  
PROPINFE (EU only)



Pin Cutters  
200427



| FIGURE 3

## Surgical Approach

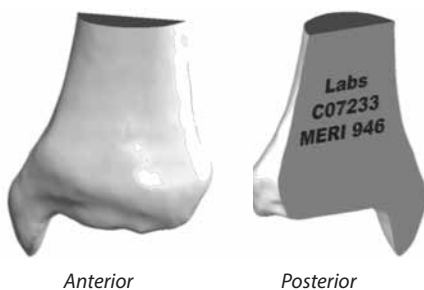
Make the anterior incision centered on the ankle, directly lateral to the palpable tibialis anterior tendon and medial to the extensor hallucis longus tendon. Define and avoid the deep peroneal nerve and anterior tibial artery. Once the nerve bundle is mobilized the anterior ankle (distal tibia and talus) is exposed with the dorsal talonavicular joint representing the distal extent of the incision. This incision can be modified according to the specific needs of the patient.

## Tibial Alignment Guide

*PROPHECY® INFINITY® alignment guides are designed to incorporate fixed osteophytes on or near the articulating surfaces, and therefore osteophytes should not be removed during the surgical exposure of the ankle. However any loose bodies, specifically called out on the PROPHECY® pre-operative plan, should be removed as they will not have been incorporated into the proper seating of the PROPHECY® INFINITY® guides.*

Ensure the area of the anterior tibia where the PROPHECY® guide will surface match is completely free of soft tissue and place the PROPHECY® Tibia Alignment Guide in the best fit location. | **FIGURE 5** Please note that the guides are designed to fit in one and only one proper location.

- If the tibia guide does not sit flush against the tibia - before driving any pins into the bone - remove the PROPHECY® guide and clean off any remaining soft tissue covering the bone.
- Re-evaluate the surface match fit between the guide and the bone. Repeat these steps until the guide sits flush against the bone in the best fit location.



**Note:** Use the provided bone models as an additional tactile and visual confirmation that the tibia guide is positioned correctly on the patient's bone.



| **FIGURE 5**

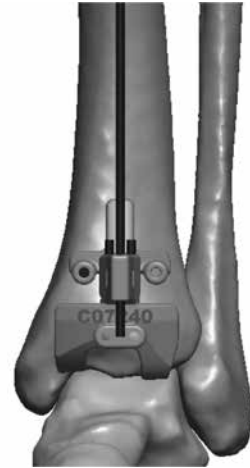


Once the Guide is in the proper location insert one 2.4 Steinmann Pin into one of the proximal holes of the Tibia Guide to temporarily hold it into position.

| **FIGURE 6** Next place a Steinmann Pin through the vertical hole in the center handle of the Guide to serve as a coronal alignment cue. | **FIGURE 7**



| **FIGURE 6**



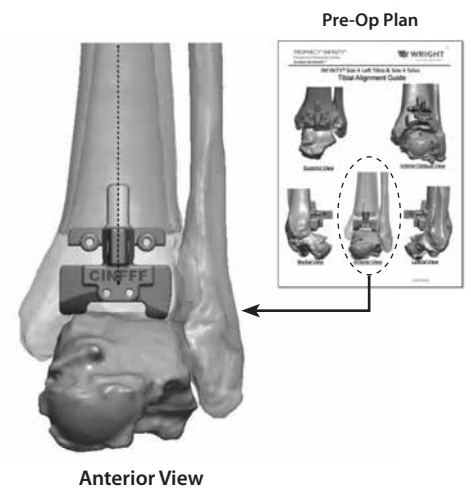
| **FIGURE 7**

With the Tibia Guide held in place, take an AP fluoro image to confirm that the tibial guide is in the correct orientation. To obtain a true AP view rotate the ankle (or conversely the c-arm) until the long Pin lines up between the two short Pins.

| **FIGURE 8** This image should correspond to the “Anterior View” tibial alignment guide image in the PROPHECY® Pre-Op Plan. | **FIGURE 9**



| **FIGURE 8**



| **FIGURE 9**

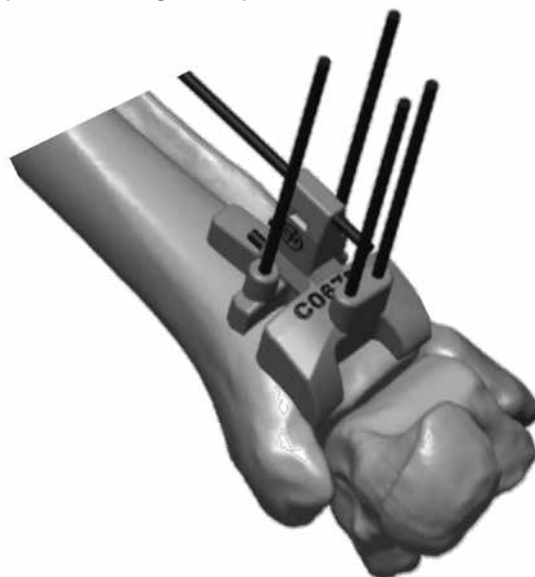
Be sure to center the ankle on the fluoro projection screen to minimize the risk of parallax imaging error.

If the intra-op image is significantly different than the pre-op plan, remove the Tibia Guide as well as any Pins holding it in place. Ensure the periosteum has been cleaned from the tibia, and that skin retractors are effectively keeping all other soft-tissues from interfering with the Guide. It may also be beneficial to place the foot into slight plantarflexion and place a surgical bump under the tibia to elevate it. This allows the talus to drop away from the anterior tibia and prevent interference with the distal portion of the Tibia Guide.

Replace the Tibia Guide and repeat the procedure for AP fluoro check, using the opposite side pin hole to temporarily secure the Guide in place.

***Note: By using only one pin to initially secure the Guide, adjustments can be made to the Guide location providing a second option to pin in place without finding the original pin hole.***

Once the desired fit and alignment is confirmed, place a total of four 2.4mm Steinmann Pins through the guide and through both cortices of the tibia. | **FIGURE 10** Do not cut the pins at this time. Remove the PROPHECY® guide by sliding it up and over the pins, leaving the pins in place. It may be helpful to attach a Kocher clamp in the notches built into the rectangular anterior handle to pull the tibia guide up.



| FIGURE 10



Coronal Sizing Guide  
33620032 - 33620035

## Install Coronal Sizing Guide

Select the appropriately sized Coronal Sizing Guide (33620032 through 33620035) and slide over the two distal tibial pins. Let the Coronal Sizing Guide slide down to the surface of the tibia. Next slide the PROPHECY® Conversion Instrument (33600200) over the two proximal tibial pins and onto the dovetail of the Coronal Sizing Guide. | **FIGURE 11** Lock into position using the Hex Driver (E5001005). | **FIGURE 12**



PROPHECY® Conversion Instrument  
33600200



Hex Driver  
E5001005



| FIGURE 11



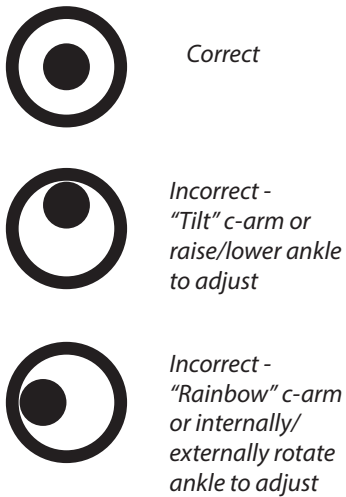
| FIGURE 12



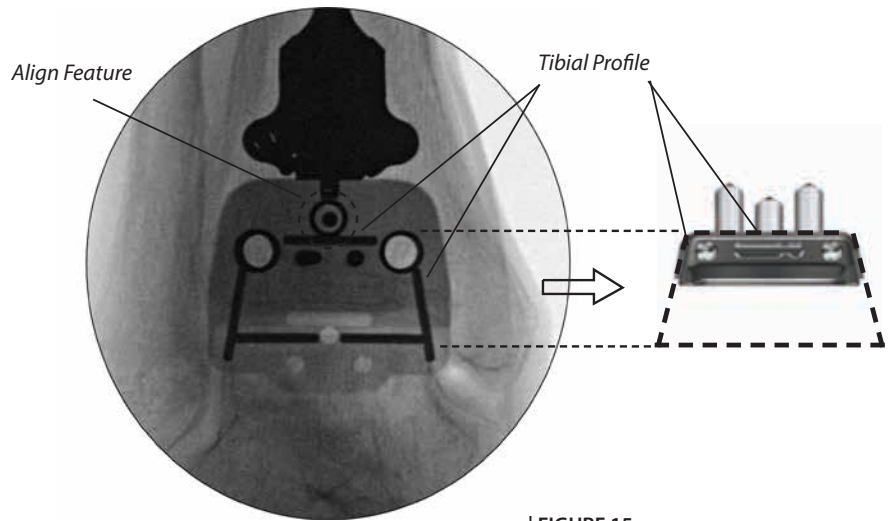
| FIGURE 13

The surgeon has the option to fluoroscopically verify the size and orientation of the Coronal Sizing Guide prior to making the tibial resection. | FIGURE 13 To correct for parallax the Coronal Adjustment Guide contains a “pin-in-circle” feature. The C-arm should be adjusted until that the pin appears in the center of the circle. | FIGURE 14 & 15

The dark outlines in the Coronal Guide represent the tibial resections as well as the coronal profile of the tibial component. | FIGURE 15



| FIGURE 14

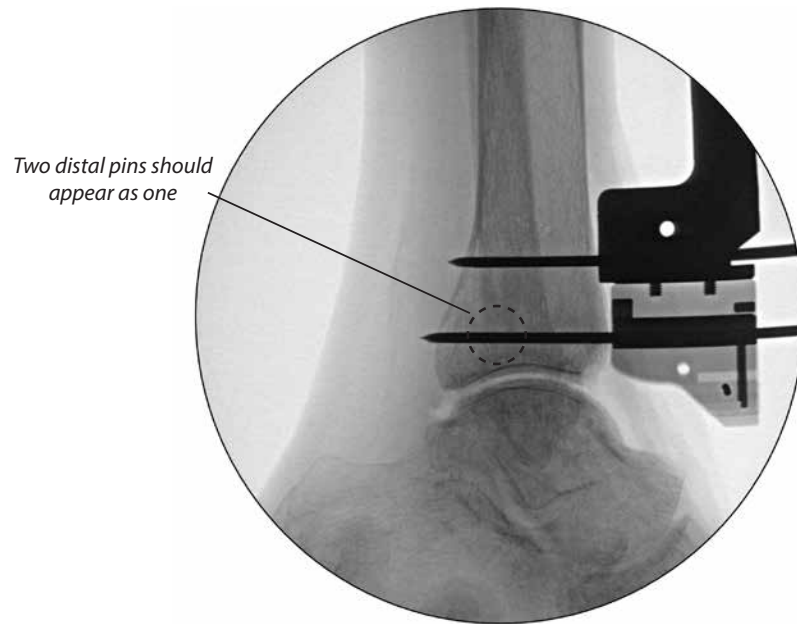


| FIGURE 15

Refer to the PROPHECY® Pre-Op Plan for verification of the resection.

**Note: At this point the surgeon can choose to revert back to the standard INFINITY® instrumentation and surgical technique if there are any concerns with the planned resection. Refer to Appendix A for detailed instructions.**

The surgeon may also choose to obtain a fluoroscopic lateral view of the ankle perpendicular to the installed Coronal Guide. This view is achieved when the medial and lateral pins in the tibia appear as one. In this view the surgeon can verify the flexion/extension angle of the planned tibial resection. | **FIGURE 16**



| **FIGURE 16**

**Note:** For instructions on how to couple the tibial and talar resections refer to page 53 – 55 in Appendix A.

## Drill Tibial Corners

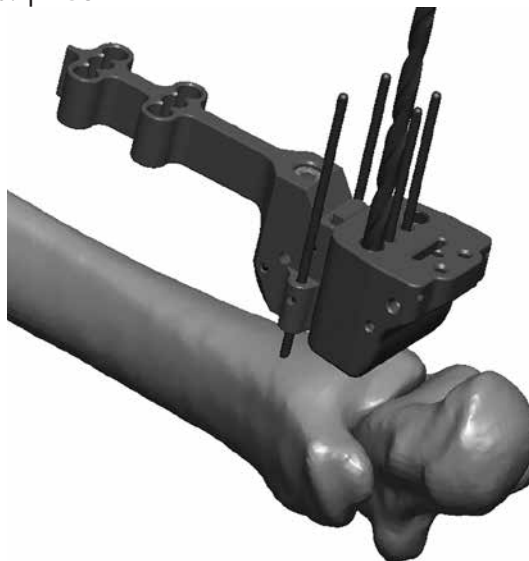
Using the Tibial Corner Drill (33600048), bi-cortically drill both proximal corners of the tibia. | FIGURE 17



Tibial Corner Drill  
33600048



Resection Guide  
33620052 – 33620055

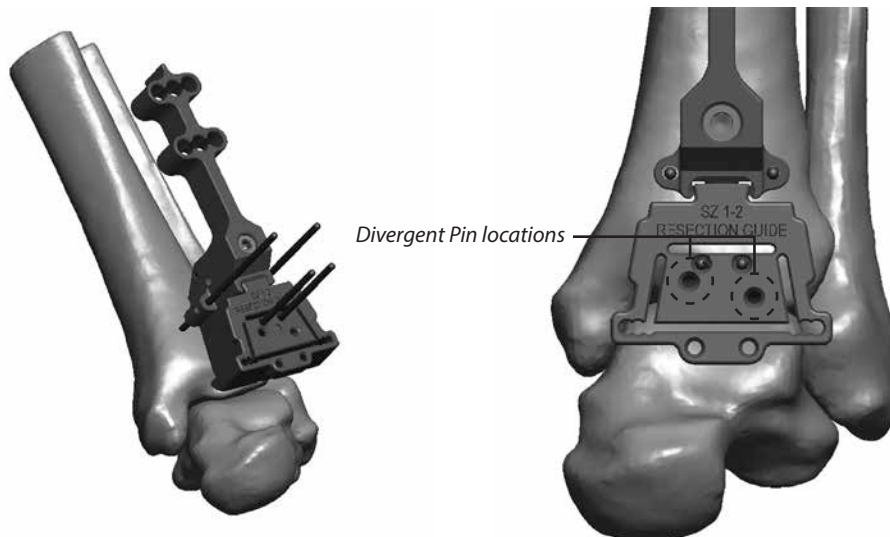


| FIGURE 17

Remove the Coronal Sizing Guide and slide the appropriately sized Resection Guide (33620052 through 33620055) over the distal 2.4mm Pins. | FIGURE 18

**Note: If the surgeon chooses to intra-operatively change the planned talar implant to a flat-cut INBONE® Talar Dome instead of a chamfer-cut INFINITY® Talar Dome. Refer to Appendix B.**

Optionally, install a 2.4mm Steinmann Pin through one of the divergent pin locations. | FIGURE 19 When using a divergent pin always use the medial option (in which the pin travels medial to lateral). This will help avoid the neurovascular bundle just behind the medial malleolus.



| FIGURE 18

| FIGURE 19

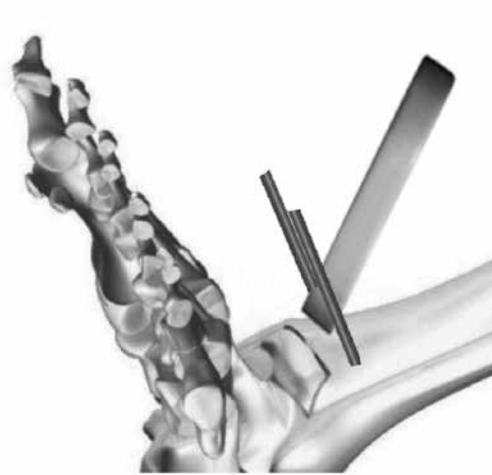
## Tibial Bone Resection

Using the Pin Cutter trim the Pins flush to the surface of the Resection Guide. Leave enough length on the divergent pin to allow its removal with a pin driver or pin puller but short enough to allow saw blade clearance in the medial resection slot (approximately 15mm).

Using the appropriate size Saw Blade and oscillating bone saw make the tibial resections only. This includes cutting through the proximal, medial and lateral slots of the Resection Guide.

**CAUTION: Do not make the talar cut at this time.**

Remove the divergent Steinmann Pin, then remove the Resection Guide and distal tibial Steinmann Pins. Leave the two proximal tibial Steinmann Pins. At the top of the tibial cut, use an osteotome to cut down towards the talus at approximately 60° to remove the anterior section of the tibia. | **FIGURES 20 and 21** Remove as much of the tibia resection as possible; at a minimum remove any anterior bone that may prevent proper seating of the PROPHECY® Talus Alignment Guide on the talar dome.



| FIGURE 20



| FIGURE 21

If the surgeon pre-operatively chose to utilize an **INBONE® Talar Dome** instead of an **INFINITY® Talar Dome** refer to Appendix C.

## Talar Alignment Guide

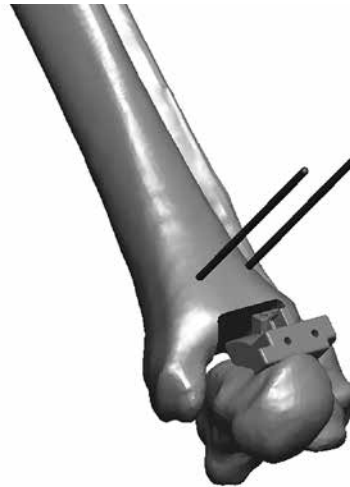
Place the foot into plantar flexion for maximum exposure of the talar dome. Ensure the area around the neck and dome of the talus where the PROPHECY® guide will surface match is free of all soft tissue. Place the PROPHECY® Talus Alignment Guide (PROFINF or PROPINFE [EU only] ) on the talar surface in the best fit location. | **FIGURES 22, 23 and 24**

In the case of uneven talar dome cartilage wear, improved talar alignment guide accuracy may be achieved by carefully removing the cartilage with a curette from the surface-match area of the talus prior to placing the talus alignment guide.

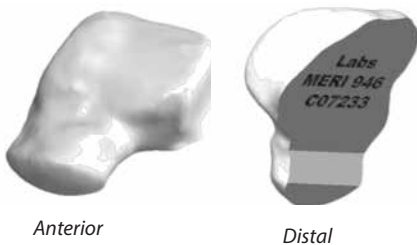
If any portion of the tibia bone prevents the talus guide from fitting properly on the talus, either remove more of the tibial resection or increase plantar flexion of the foot (or a combination of both).



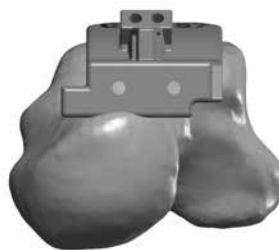
PROPHECY® Talus Alignment Guide  
PROFINF  
PROPINFE (EU only)



| FIGURE 22



**Note:** Use the provided bone models as an additional tactile and visual confirmation that the talus guide is positioned correctly on the patient's bone.



| FIGURE 23  
Anterior View



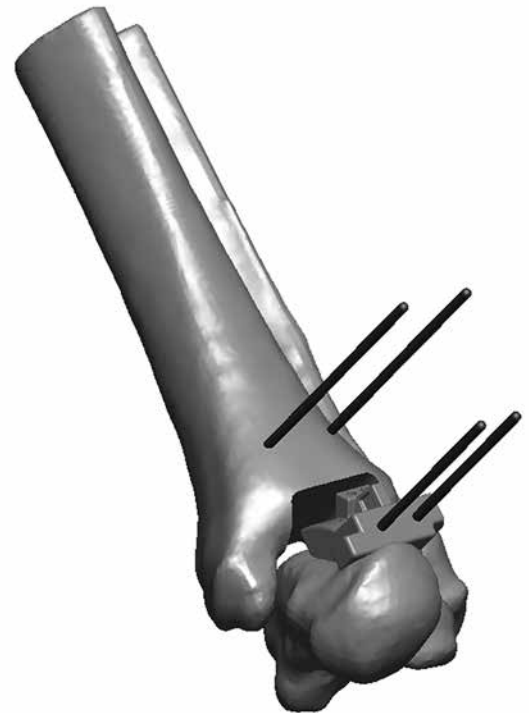
| FIGURE 24  
Medial-Oblique View



While holding the PROPHECY® guide in place install one 2.4mm Steinmann Pin through either hole on the top surface of the guide and into the dome of the talus to temporarily hold the guide in place. | **FIGURE 25** Next, install two 2.4mm Steinmann Pins through the anterior pin holes of the Talus Alignment Guide and into the talar bone. Remove the Steinmann Pin in the top of the guide. | **FIGURE 26** Do not cut the remaining pins at this time. Remove the PROPHECY® guide by sliding it up and over the pins, leaving the pins in place. It may be helpful to attach a Kocher clamp to the notches built into the central triangular feature of the talar guide to pull the guide up.



| FIGURE 25



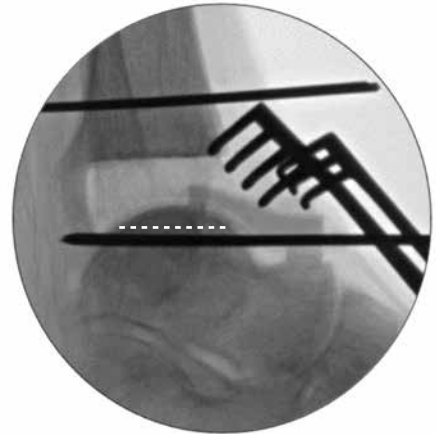
| FIGURE 26

**Note:** *By using only one pin to initially secure the Guide, adjustments can be made to the Guide location providing a second option to pin in place without finding the original pin hole.*

The surgeon has the option to fluoroscopically verify the proximal/distal location and flexion/extension angle of the talar component prior to talar resection. Obtain a true lateral view by aligning the c-arm so that both talar Steinmann Pins appear as one. | **FIGURE 27** The proximal talar resection (white dashed line) will be parallel to and approximately 2mm proximal to the top of the Steinmann Pin. | **FIGURE 28**

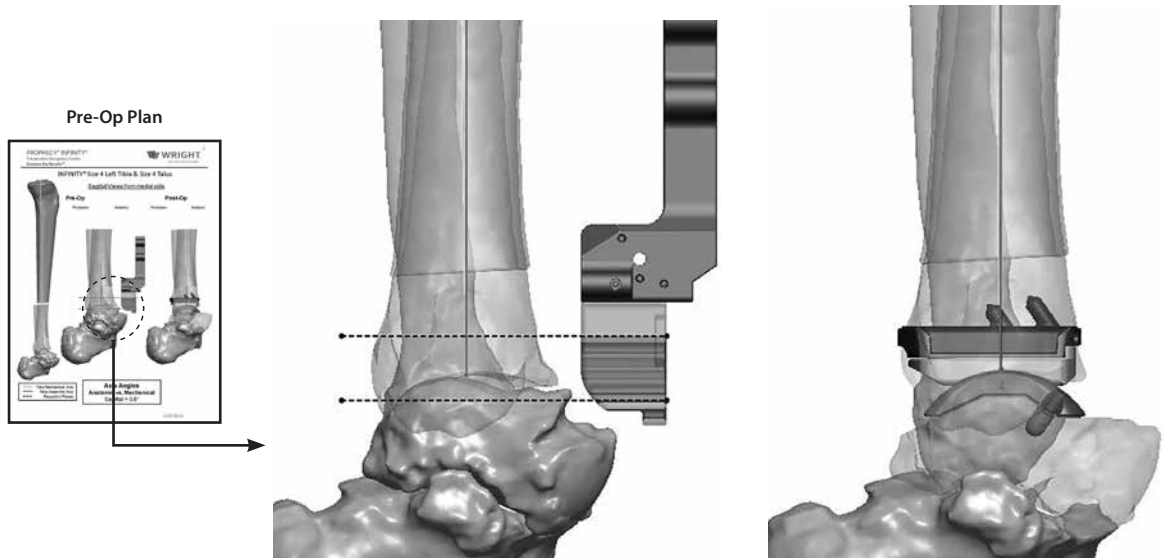


| **FIGURE 27**



| **FIGURE 28**

In addition the surgeon can compare to images in the PROPHECY® Pre-Op Plan to verify accuracy of the talar guide. | **FIGURES 29 and 30**



| **FIGURE 29**

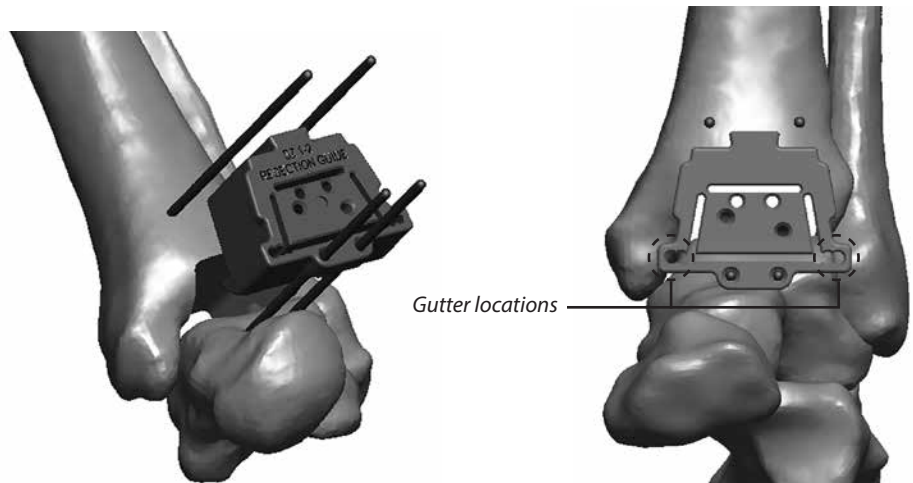
| **FIGURE 30**

## Talar Bone Resection

Choose the appropriately sized INFINITY® Resection Guide, position the 2 talar pin holes over the 2 pins from the PROPHECY® Talus Alignment Guide and slide down to the anterior surface of the talar dome. | **FIGURE 31** The Resection Guide will not necessarily be the same size used in the tibial resection. Consult the PROPHECY® pre-op plan for confirmation.

**Note: At this point the surgeon still has the option to intra-operatively change to an INBONE® flat-cut talar resection. Refer to Appendix B for details on using the INBONE® Talar Resection Guide to translate the talar pin locations and make the desired resection.**

Insert two additional 2.4mm Steinmann pins into the medial and lateral gutters for protection of the malleoli. | **FIGURE 32** Use the Pin Cutter to cut the Steinmann pins close to the surface of the Resection Guide.



| FIGURE 31

| FIGURE 32

Care must be taken to ensure that the placement of the gutter pins does not unintentionally cause a shift in the position of the Resection Guide. In addition, any unintentional pressure applied to the Resection Guide by the soft tissue envelope or retractors may cause it to shift, leading to an inaccurate resection.

Using the appropriate Saw Blade and oscillating bone saw make the talar resection (distal slot of the Resection Guide).

**CAUTION: It may be necessary to manually hold the Resection Guide onto the bone as excessive vibration from the saw can cause the Guide to move anteriorly and disengage from the pins.**

Remove the Resection Guide. Check that the talar resection is complete by using a 1/2 inch osteotome. Complete the cut if necessary and gently lever the resected dome out anteriorly.

## Remove Tibial Bone Resection

Optionally, to facilitate removal of the remaining posterior tibia, the Corner Chisel (33600058) and a mallet can be used to finish off bone cuts in the proximal corners of the resected tibia. | **FIGURE 33** The Corner Chisel is laser marked to indicate the anterior to posterior depth of the various size tibial trays.

**CAUTION:** Care must be taken to ensure that the Corner Chisel does not penetrate too deeply, as neurovascular injury may occur. Do not rely solely on the depth indications on the Chisel to determine resection depth. If unsure, utilize a lateral fluoroscopic image to confirm proper depth of the chisel.



| FIGURE 33



Corner Chisel  
33600058

Using a pin driver, insert the Bone Removal Screw (IB200051) into the resected tibial bone. Attach the Ratcheting Handle (44180025) to the Bone Removal Screw to aid in removing the remaining tibial section through traction.

| FIGURE 34



| FIGURE 34



*Bone Removal Screw  
IB200051*

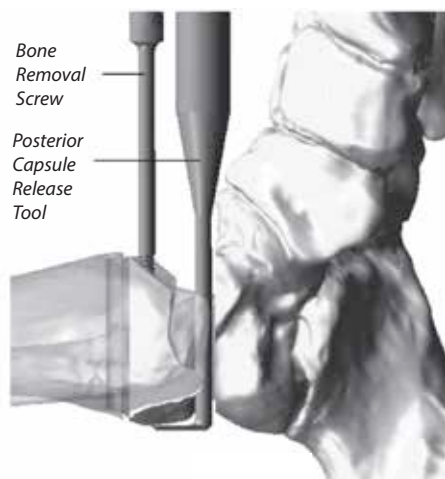


*Ratcheting Handle  
44180025*



*Posterior Capsule  
Release Tool  
IB200050*

Insert the 90° Posterior Capsule Release Tool (IB200050) into the joint space and use to free up the posterior capsule soft tissues attachments to the resected tibia. | FIGURES 35 and 36



| FIGURE 35



| FIGURE 36

A reciprocating saw or bone rasp may be used to remove any excess bone, taking care to follow the previously made cut line. Remove loose bone pieces and irrigate the joint space. | **FIGURE 37**



| **FIGURE 37**

## Tibial Tray Trialing and AP Sizing

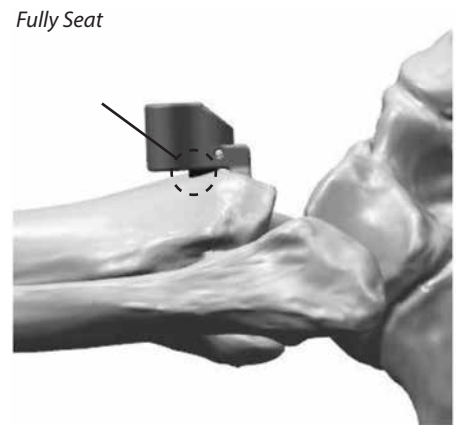
Place the appropriately sized Tibial Tray Trial (33620061 through 33620065) over the two remaining tibial pins and into the resected joint space.

| **FIGURE 38** The padded Self-Retaining Laminar Spreaders (33609012) should be inserted between the Trial and the talus to ensure the Trial is seated flush. Ensure the Tibial Tray Trial is fully seated against the anterior cortex of the tibia.

| **FIGURE 39** Pins may be trimmed flush to the Tibial Tray Trial.



| FIGURE 38



| FIGURE 39

The Tibial Tray Trial is also used to check the tibial cut surfaces and ensure that no bone fragments will impede proper positioning of the Tibial Tray. Remove excess bone and irrigate as necessary.



*Tibial Tray Trial*  
33620062 - 33620065



*Self-Retaining Laminar Spreaders*  
33609012

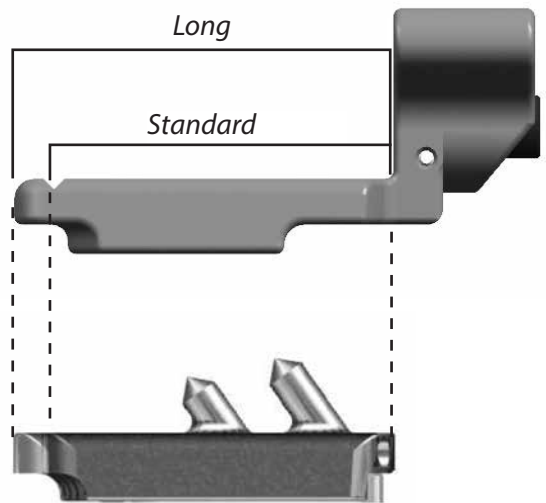
The Tibial Trial allows the surgeon to determine both the optimal AP tibial coverage and positioning through fluoroscopic evaluation. | **FIGURE 40**

For sizes 3 through 5 the surgeon has the option to choose either a standard or long AP sized tibial tray. The notch in the Tibial Trial indicates the length of the “standard” option. | **FIGURE 41 and 42**

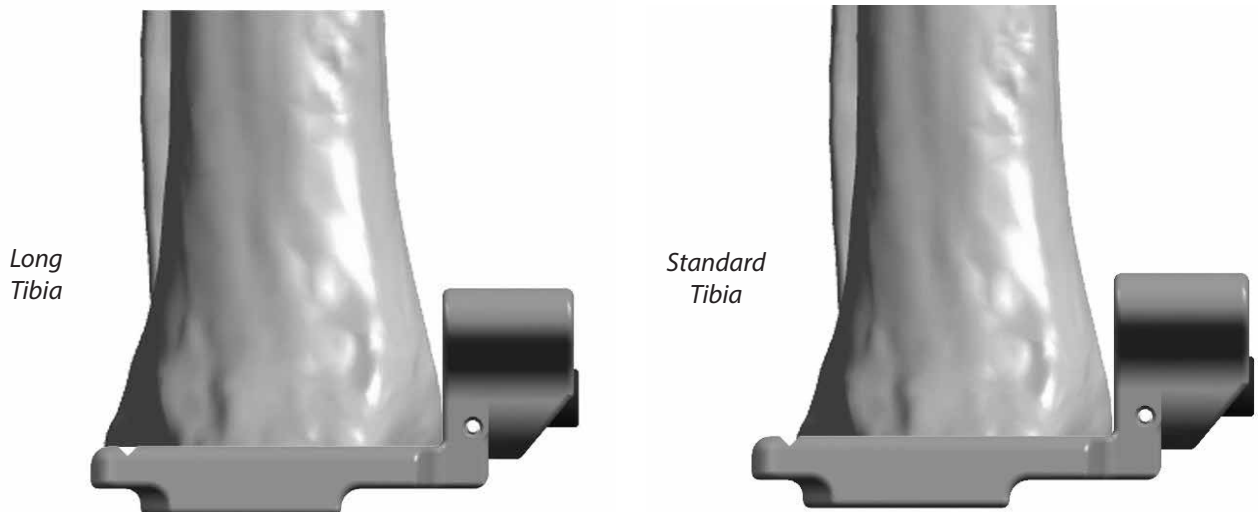
Tibia component sizes 1 and 2 are each available in only one AP length. Because they share the same ML dimension, they utilize the same Tibial Trial. When using the size 1&2 Tibia Trial the full length represents the size 2 and the notch indicates the length of the size 1 option.



| **FIGURE 40**



| **FIGURE 41**



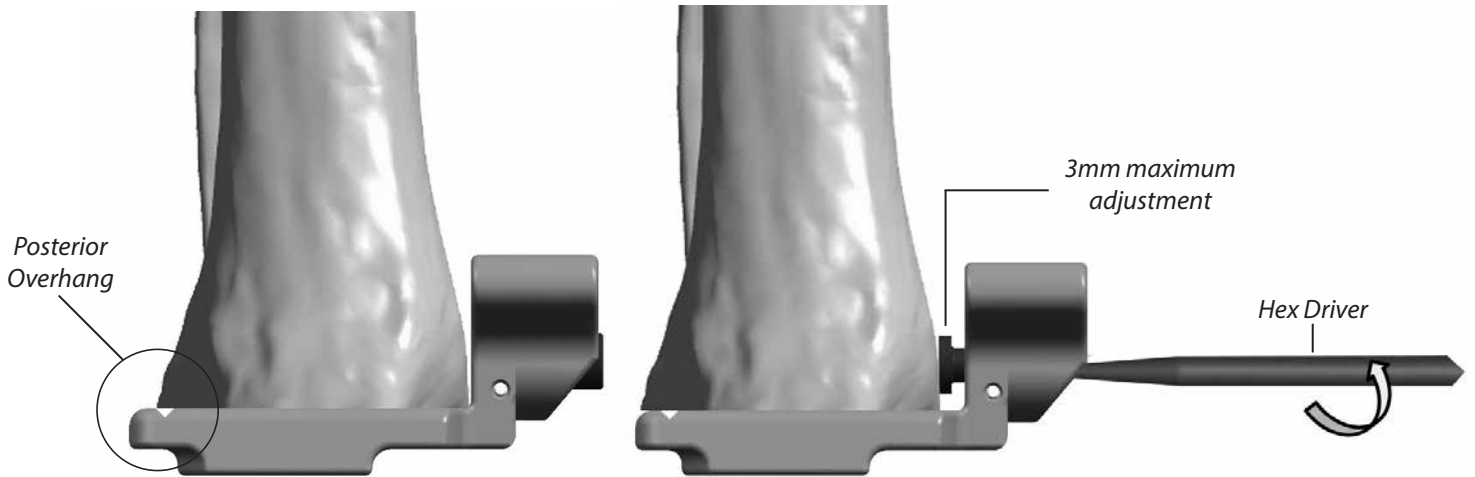
| **FIGURE 42**



The surgeon also has the option to anteriorly translate the Tibial Trial (maximum of 3mm) in order to minimize posterior overhang if desired. | **FIGURE 44** To adjust, insert the Hex Driver into the front of the Tibial Trial and turn clockwise. | **FIGURE 43 and 45**



| **FIGURE 43**



| **FIGURE 44**

| **FIGURE 45**

## Tibial Peg Broaching

Cut the Steinmann Pins to the surface of the Tibial Tray Trial. Using the Posterior Tibial Peg Broach (33600069) prepare a hole in the resected tibia by malleting the Broach through the posterior opening of the Trial. | **FIGURE 46** Temporarily leave the Posterior Broach in place while the two anterior holes are prepared.



| **FIGURE 46**

Using the Anterior Tibial Peg Broach (33600067) prepare the two anterior holes through the Trial. | **FIGURE 47**



| **FIGURE 47**

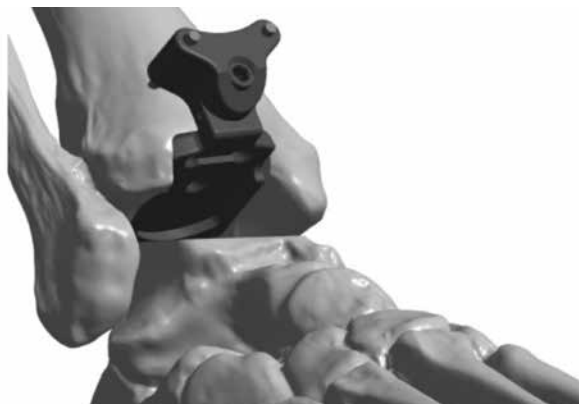


*Anterior Tibial Peg Broach  
33600067*



*Posterior Tibial Peg Broach  
33600069*

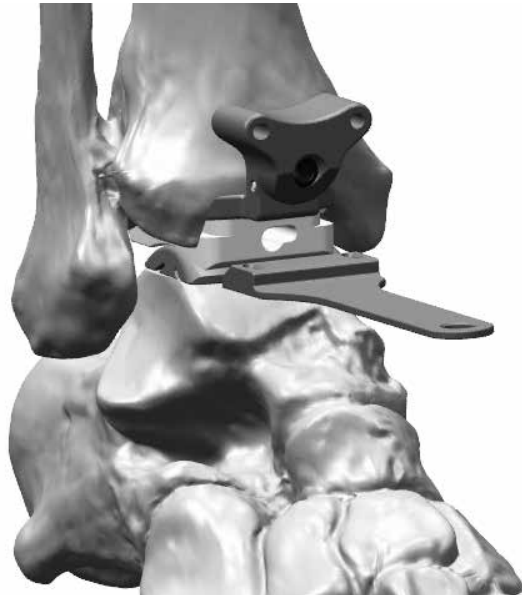
After all three holes are prepared remove both Broaches and leave the Tibial Tray Trial in place. | **FIGURE 48**



| **FIGURE 48**

## Talar Component Sizing and Positioning

Place the appropriately sized Talar Dome Trial (33600071 through 33600075) into the joint space. Using the Poly Insert Trial Holding Tool (IB200110) install the appropriately sized Poly Insert Trial (33621106 through 33625512) into the Tibial Tray Trial. The locking tab of the Poly Insert Trial should engage the Tibial Tray Trial. | **FIGURE 49**



| **FIGURE 49**



*Poly Trial Holding Tool*  
IB200110



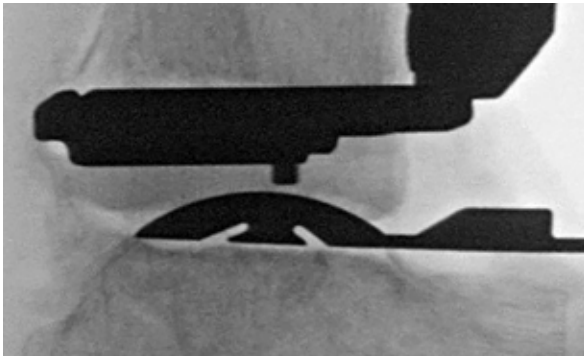
*Poly Insert Trial*  
33621106 - 33625512



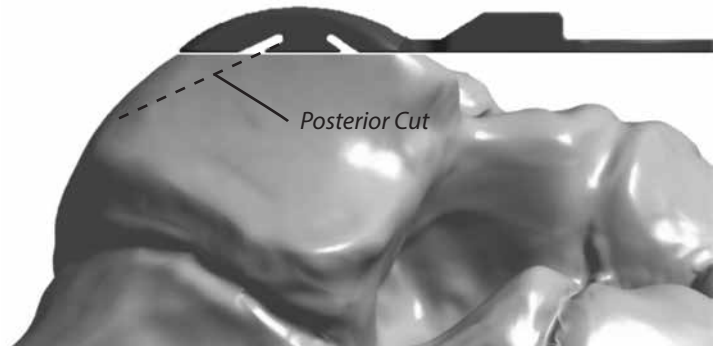
*Talar Dome Trial*  
33600071 - 33600075

The surgeon has two options for the Talar Dome implant size at this juncture: either the matching size for the implanted Tibial Tray, or one size smaller. It is beneficial to assess both sizes under A/P and lateral fluoroscopic images. Please note that the A/P image is critical for sizing the talar component, as the surgeon's goal is to minimize overhang of the talar component, and thus minimize prosthetic impingement in the medial and lateral gutters of the ankle joint.

Under sagittal plane fluoroscopy ensure the posterior portion of the Talar Trial is resting on the posterior portion of the patient's residual talus (establish congruence). | FIGURES 50 and 51



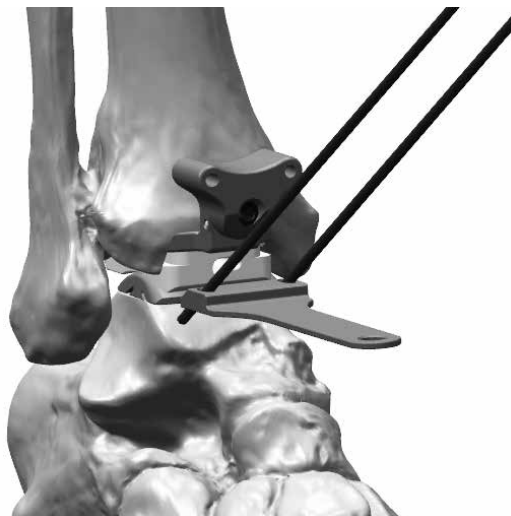
| FIGURE 50



| FIGURE 51

To accurately perform the range of motion, place some axial compression on the components to maintain position, and flex and extend the ankle. The surgeon will observe the talar component rotating into the anatomic position for this particular patient establishing the center of rotation for the ankle. Note that the surgeon must not only be cognizant of the talar position in the sagittal plane, but must simultaneously maintain medial/lateral coverage as evidenced by the previous A/P plane fluoroscopic views.

Once the Talar Dome Trial has settled into optimum anatomical position, hold the foot in place and install two 2.4mm Steinmann Pins through the Talar Dome Trial to temporarily hold it in place. | FIGURE 52



| FIGURE 52

## Talar Chamfer Resections

Using the Poly Insert Trial Holding Tool remove the Poly Insert Trial. Slide the Talar Dome Trial off the 2.4mm pins in the talus and slide the Tibial Tray Trial off the 2.4mm pins in the tibia. | **FIGURE 53** The two 2.4mm tibial pins may now be removed as well.

Slide the Talar Resection Guide Base (33600091 through 33600095) onto the two 2.4mm pins in the talus and seat flush to the resected talar surface. | **FIGURE 54**



| **FIGURE 53**



| **FIGURE 54**



Talar Resection Guide Base  
33600091 - 33600095



Temporary Fixation Screw  
Long - 33610002  
Short - 33610003



T-Handle Pin Driver  
33600120

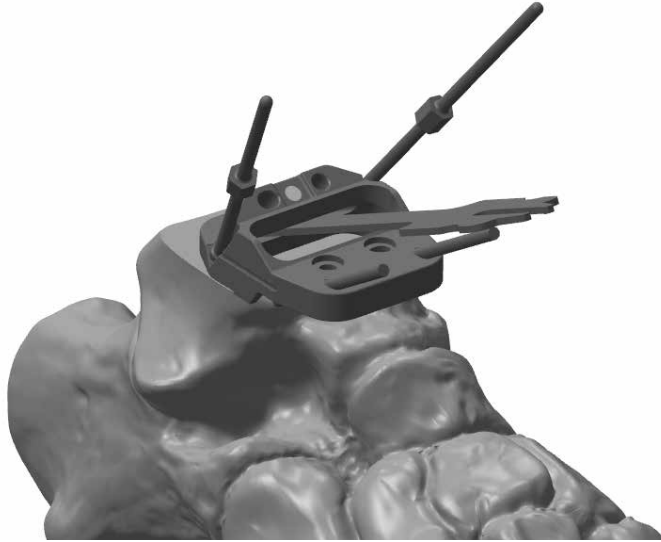
Using the T-Handle Pin Driver (33600120) or under power install two Temporary Fixation Screws (33610002 or 33610003) through the Talar Resection Guide Base into the talus. | **FIGURE 55**

**CAUTION: When installing the Temporary Fixations Screws care must be taken to avoid over torquing. It is recommended to install the Screws to 3/4 of their entire depth under power, finishing with the T-handle, to avoid inadvertent breakage.**



| **FIGURE 55**

Using the appropriately sized Saw Blade and oscillating or reciprocating bone saw make the posterior talar chamfer resection through the slot in the Talar Resection Guide Base. | **FIGURE 56**



| **FIGURE 56**

Remove the two anterior 2.4mm Pins. One of these pins can then be installed through the anterior pin hole in the Guide Base to provide additional fixation during the talar preparation steps. Cut this pin flush to the surface of the Guide Base to prevent interference with the saw blades and reamers. | **FIGURE 57**



| **FIGURE 57**

Assemble the Anterior Talar Pilot Guide (33600101 through 33600105) with pegs facing down onto the anterior face of the Talar Resection Guide Base. | **FIGURE 58**

Use the appropriately sized Talar Reamer (33600123 or 33600126) to plunge cut through all four holes of the Pilot Guide. | **FIGURE 59** This will prepare the talar surface for the anterior flat of the talar component.



| **FIGURE 58**



| **FIGURE 59**

Remove the Pilot Guide and replace with the Anterior Talar Finish Guide (33600111 through 33600115). | **FIGURE 60**

Use the Talar Reamer to perform the finishing cuts for the anterior talar flat by sliding the Reamer from side to side within the Finish Guide. | **FIGURE 61** To ensure bone cuts are at the proper depth make sure the shoulder of the Reamer is flush against the guide for each reaming step.



*Anterior Talar Pilot Guide*  
33600101 - 33600105



*Talar Reamer*  
Size 1-3 - 33600123  
Size 4-5 - 33600126



*Anterior Talar Finish Guide*  
33600111 - 33600115



| **FIGURE 60**



| **FIGURE 61**

Remove the Finish Guide and reassemble the Pilot Guide onto the Talar Resection Guide Base. The Pilot Guide will now be rotated 180° from the previous steps. | **FIGURE 62**

Again use the Talar Reamer to plunge cut through all four holes of the Pilot Guide. | **FIGURE 63** This will prepare the talar surface for the anterior chamfer of the talar component.



| **FIGURE 62**



| **FIGURE 63**

Remove the Pilot Guide and assemble the Finish Guide to complete the preparation of the anterior chamfer. | **FIGURE 64**

Using the Talar Reamer perform the finishing cuts for the anterior talar chamfer by sliding the Reamer from side to side within the Finish Guide. | **FIGURE 65**



| **FIGURE 64**

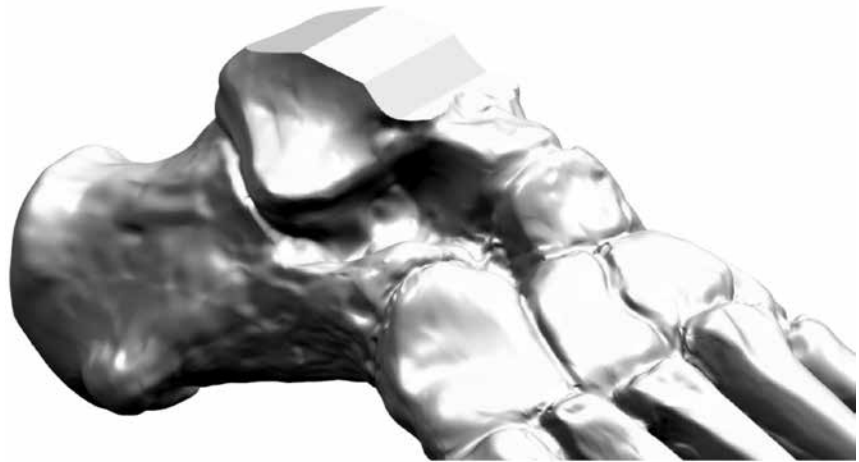


| **FIGURE 65**



Remove the Fixation Pins and Resection Guide Base and remove any residual bone medial and lateral to the prepared chamfer cuts using either an osteotome or rongeur. | FIGURE 66

**CAUTION: Failure to adequately remove residual bone from resected edges may lead to improper seating of the talar component.**



| FIGURE 66

## Polyethylene Thickness

While the final polyethylene thickness does not have to be definitively chosen during the trial phase, it is important to have what is perceived to be the appropriately sized trial poly to accurately determine the placement of the talar component. The trial poly used for the reduction should fit appropriately to determine the center of rotation of the talar component; therefore, trialing multiple size polys may be necessary. Note that after insertion of the final talar dome, the height of the poly can and should be reassessed.

In order to determine proper polyethylene height the following factors must be considered:

- Smooth range of motion of the ankle without anterior or posterior impingement.

- Ligaments are tensioned both medially and laterally WITHOUT over-tensioning. Over-tensioning is noted when the trial talar component tilts following trial poly insertion. Alternatively, with range of motion, the talar component becomes incongruent with the trial poly, which can identify too much tension on the ankle replacement. Over-tensioned joints may cause increased polyethylene wear, and should be avoided.

- Stress the ankle joint into varus and valgus. The trial components should not tilt.

- The trial poly should engage the sulcus in the talar dome trial without allowing medial/lateral translation.

## Talar Peg Drilling

Replace the Tibial Tray Trial over the 2.4mm Pins in the tibia. Insert the appropriately sized Talar Peg Drill Guide (33600161 through 33600165) into the joint space and over the resected talus. Reinstall the Poly Insert Trial into the Tibial Tray Trial and perform a trial reduction to establish optimal talar medial/lateral positioning. | **FIGURE 67**



| **FIGURE 67**

Slightly plantarflex the foot and install a 2.4mm Steinmann Pin through the Talar Peg Drill Guide to temporarily hold it in position. | **FIGURE 68**



*Talar Peg Drill Guide*  
33600161 - 33600165



*Anterior Peg Drill*  
IB200020

Using the 4mm Anterior Peg Drill (IB200020), drill a hole through the medial and lateral openings in the Talar Dome Trial. The drill has a hard stop designed to set the appropriate drilling depth in the talus for the Talar Dome anterior pegs. | **FIGURE 69**



| **FIGURE 68**



| **FIGURE 69**

## Tibial Component Implantation

Remove the 2.4mm Pins in the talus and tibia and remove the Talar Peg Drill Guide, Poly Insert Trial and Tibial Tray Trial from the joint space. | **FIGURE 70**



| **FIGURE 70**

Choose the appropriately sized Tibial Tray Impaction Insert (33600132 through 33600135) and assemble the Tibial Tray component by sliding over the dovetail opening. | **FIGURE 71**



| **FIGURE 71**

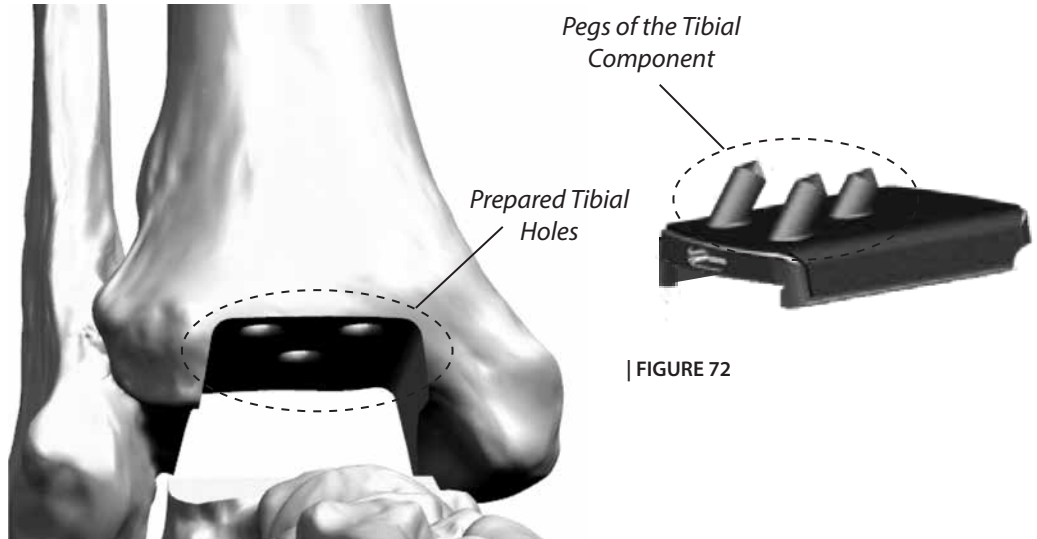


*Tibial Tray  
Impaction Insert  
33600132 - 33600135*

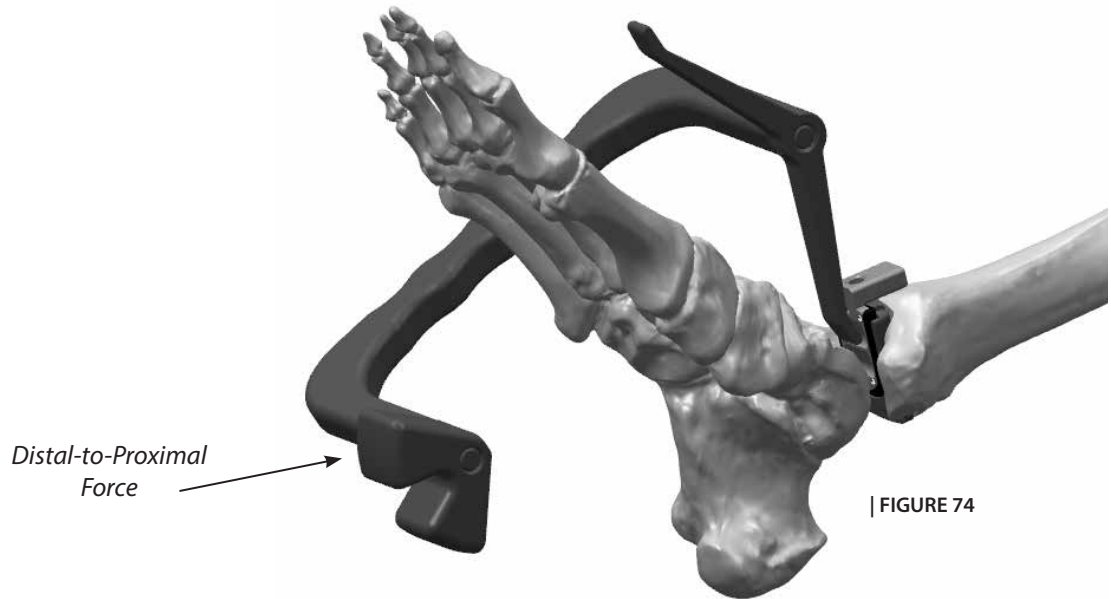
Apply bone cement to the top and side walls of the Tibial Tray component taking care not to get any cement on the anterior face or bottom of the Tray.

**CAUTION: The INFINITY® Total Ankle is intended for cemented use only.**

Thread the Insertion Handle (33600130) into the front of the Tibial Tray Impaction Insert and begin insertion of the Tibial Tray component. Introduce the Tibial Tray into the joint space ensuring all three pegs of the component are aligned with the prepared holes in the tibia. | FIGURES 72 and 73



Use the Offset Tibial Tray Impactor (33600140) to complete the seating of the Tibial Tray. The Impactor handle can be used on the lateral or medial side of the foot depending on surgeon preference. | FIGURE 74



There are two impaction notch locations within the Tibial Tray Impaction Insert, one anterior and one posterior. For optimal results proceed slowly beginning with the posterior notch and alternating between both impaction points. Verify progress via fluoroscopic imaging.

The Straight Tibial Tray Impactor (33600141) can also be used to help seat the Tibial Tray using an impaction force in line with the angled tibial tray pegs.



Offset Tibial  
Tray Impactor  
33600140

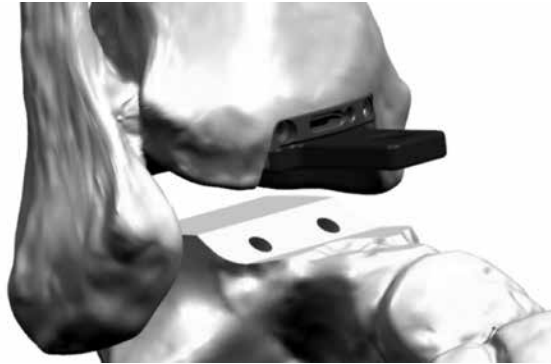


Straight Tibial  
Tray Impactor  
33600141

**CAUTION: It is important that the anterior surface of the tibial tray contacts and sustains load upon the anterior tibial cortex with weight bearing. Striking the Impactor with excessive force or continuing to strike the Impactor after the Tibial Tray is fully seated can result in the Tibial Tray pegs plowing through cancellous bone leaving the Tibial Tray posteriorly translated from the anterior tibial cortex.**

## Talar Component Implantation

Insert the appropriately sized Tibial Tray Protector (33620152 through 33620155) into the Tibial Tray to protect the Talar Dome surface during installation. | **FIGURE 75**



| **FIGURE 75**

Apply bone cement to the bottom surface of the Talar Dome.

**CAUTION: The INFINITY® Total Ankle is intended for cemented use only.**

Start insertion of the Talar Dome component into the joint space introducing by hand to ensure the talar pegs align with the drilled holes in the talus. Remove the Tibia Tray Protector and insert the assembled Talar Dome Impactor (IB200030 and IB200031) aligning tip with the sulcus of the Talar Dome. | **FIGURE 76** With the ankle in plantar flexion strike the Impactor to seat the talus posteriorly first followed by final seating with a direct vertical force being careful not the lever on the seated tibial base plate.

Utilize a lateral fluoroscopic image to verify that the component is fully seated.

| **FIGURE 77**



Tibial Tray Protector  
33620152 - 33620155



Talar Dome Impactor  
IB200030  
Impactor Tip  
IB200031



| **FIGURE 76**



| **FIGURE 77**

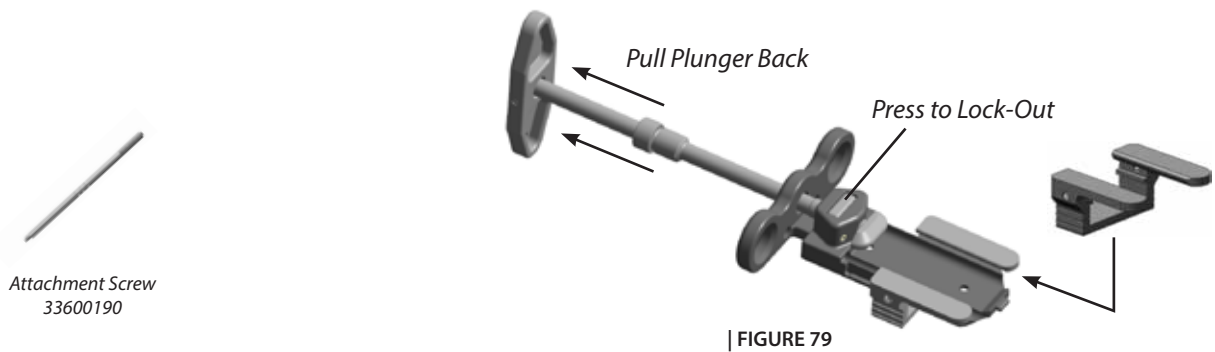
## Polyethylene Bearing Installation

Install two Attachment Screws (33600190) into the anterior face of the Tibial Tray.  
| **FIGURE 78**



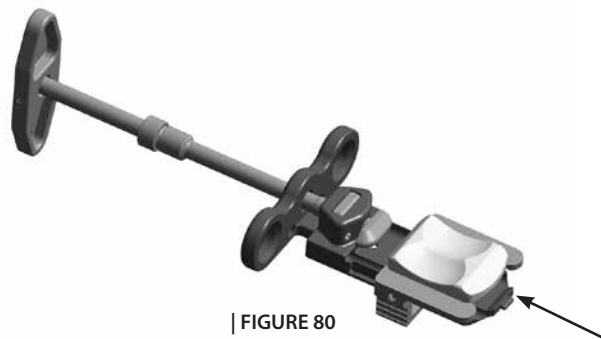
| **FIGURE 78**

Assemble the Poly Insert Guide Rail (33600172 through 33600175) onto the Poly Inserter (33600170) and ensure that the plunger handle is pulled back completely and locked in the start position. | **FIGURE 79**



| **FIGURE 79**

Slide the dovetail feature of the Poly Insert Implant into the Poly Insert Guide Rail ensuring correct A/P orientation of the component. | **FIGURE 80**



| **FIGURE 80**

Slide the Poly Inserter Assembly over the Attachment Screws and flush to the surface of the Tibial Tray. Thread an Attachment Nut (33600191) over the end of each Attachment Screw to tightly secure the Poly Inserter in place. | **FIGURE 81**



| **FIGURE 81**

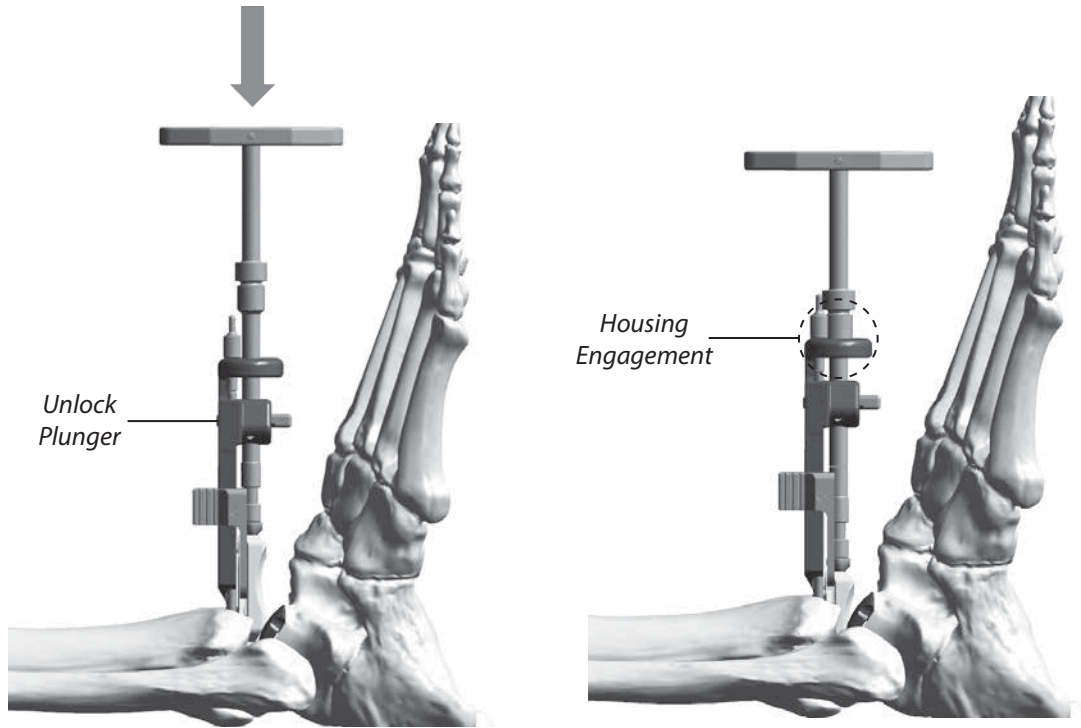
***CAUTION: Properly irrigate prior to poly insertion. It is important to remove any fragments of bone or soft tissue from the lock detail on the tibial tray to insure that the polyethylene will seat completely within the tibial tray lock detail.***



*Attachment Nut*  
33600191



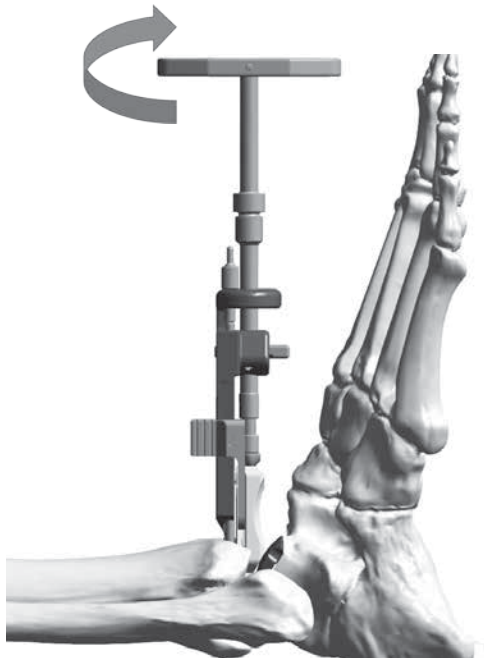
To begin Poly insertion, unlock the plunger and push it forward until it comes into contact with the Poly Inserter housing. | FIGURES 82 and 83



| FIGURE 82

| FIGURE 83

Once it contacts the housing, the plunger can be turned (clock-wise) to continue advancing the Poly Insert into the Tibial Tray. | FIGURE 84



| FIGURE 84

After the plunger has reached maximum depth unthread the two Attachment Nuts, remove the Poly Inserter housing and unthread the two Attachment Screws from the tibial tray. | **FIGURE 85**



| **FIGURE 85**

In some cases the poly may not fully seat using the insertion tool. In these rare cases only, line up the tip of the Straight Tibial Tray Impactor (33600141) with the groove in the anterior face of the poly insert. Angle the Impactor slightly and use a gentle distal to proximal mallet strike to complete the seating.

**CAUTION:** *Striking the Impactor with excessive force can result in the Tibial Tray pegs plowing through cancellous bone leaving the tibial tray posteriorly translated from the anterior tibia cortex.*

Check for proper articulation and observe the range of motion under fluoroscopy, ensuring appropriate gliding mechanics for the prosthesis. Also, perform one final check to be sure all components are appropriately seated.  
| FIGURES 86 and 87 Close the wound and cast foot in slight plantar flexion.



| FIGURE 86



| FIGURE 87

## Explant Information

### INSERT REPLACEMENT

The Poly Insert has a pre-drilled hole feature on the anterior face. To remove the Poly Insert, first use a pin driver to install the Bone Removal Screw through the pre-drilled hole. Attached the Ratcheting Handle and pull distally on the Removal Screw in an attempt to unlock the Insert from the Tibial Tray. A narrow osteotome may be inserted into the anterior region of the insert to facilitate removal. A hemostat may be used to remove the insert once it is no longer locked to the tibial tray. Care must be taken not to scratch or damage any component that is not intended to be removed.

### TIBIA AND TALAR COMPONENTS

To remove the components, small osteotomes, power saws, or other surgical instruments may be used to disrupt the bone-cement interface. Care must be exhibited to save remaining bone stock as well as to prevent fracture. Once the components have been removed, rongeurs or small osteotomes as well as other surgical instruments may be used to remove the remaining cement.

*If the removal of the implant is required due to revision or failure of the device, the surgeon should contact the manufacturer using the contact information located on the back cover of this surgical technique to receive instructions for returning the explanted device to the manufacturer for investigation.*

## Postoperative Management

Postoperative care is the responsibility of the medical professional.

## Conversion to Standard Instrumentation



| FIGURE 88

Prior to making the tibial resection, the following modifications can be made:

- Medial-Lateral Position of Tibial Resection
- Proximal-Distal Level of Tibial Resection
- Tibial Implant Size

**CAUTION:** In order to adjust the sagittal, coronal or axial rotation of the tibial resection, the surgeon must revert back to the standard INFINTIY® surgical technique. Refer to technique number 010395.

First remove the Coronal Sizing Guide from the PROPHECY® Conversion Instrument. | **FIGURE 88** Place two Pin Sleeves (33600025) into the two aligned holes that provide the optimal bone purchase. Typically (but not always) these will be the two center holes. | **FIGURE 89**

**CAUTION:** The two holes chosen must align with one another e.g. both center holes, both medial holes or both lateral holes.

Insert the Trocar (33600026) through each of the Pin Sleeves to create entrance portals for the percutaneous pins. | **FIGURE 90**



| FIGURE 89



| FIGURE 90

## Install Sizing and Resection Guide Adjustment Block

Install a 3.2mm Pin into each Pin Sleeve and through both cortices of the tibia.

| **FIGURE 91** Remove both Pin Sleeves, the PROPHECY® Conversion Instrument and the two original distal pins. | **FIGURE 92**



| **FIGURE 91**

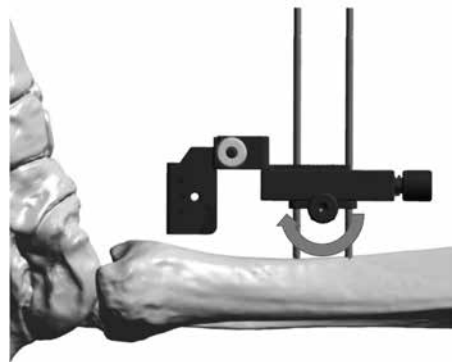


| **FIGURE 92**

Place the Adjustment Block (33600030) on the two parallel tibial pins, and lock it in place a few millimeters above the surface of the tibial crest. | **FIGURE 93** It is important not to rest the Block directly on the tibia as it may not freely translate into the desired position. Lock the Adjustment Block into this position by tightening the gray side knob with the Hex Driver. | **FIGURE 94**



| **FIGURE 93**



| **FIGURE 94**



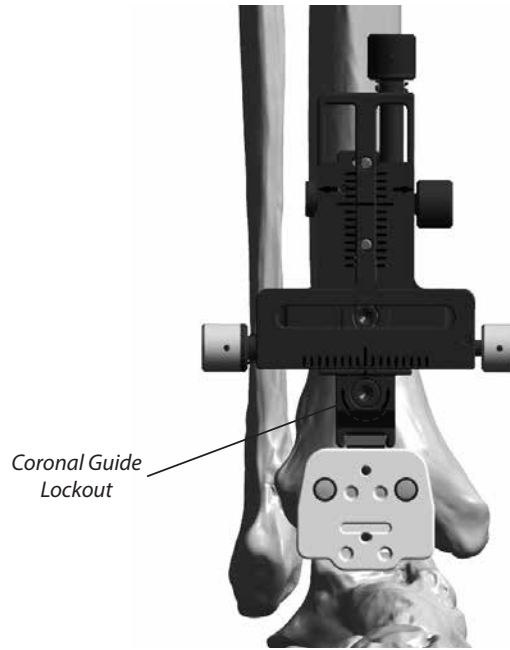
*Adjustment Block  
33600030*

## Coronal Plane Sizing and Positioning

Connect the Coronal Sizing Guide (33600032 through 33600035) to the Adjustment Block by sliding it onto the dovetail opening. Allow the Guide to slide into the dovetail until it rests against the surface of the tibia. Then, raise the Guide to leave 1 mm of clearance between the Guide and the tibial plafond. Lock into place with the Hex Driver. | **FIGURE 95**



Coronal Sizing Guide  
33620032 - 33620035



| **FIGURE 95**

To correct for parallax the Coronal Adjustment Guide contains a “pin-in-circle” feature. The C-arm should be adjusted so that the pin appears in the center of the circle. | **FIGURE 96 and 97**



Correct



Incorrect -  
“Tilt” c-arm or  
raise/lower ankle  
to adjust



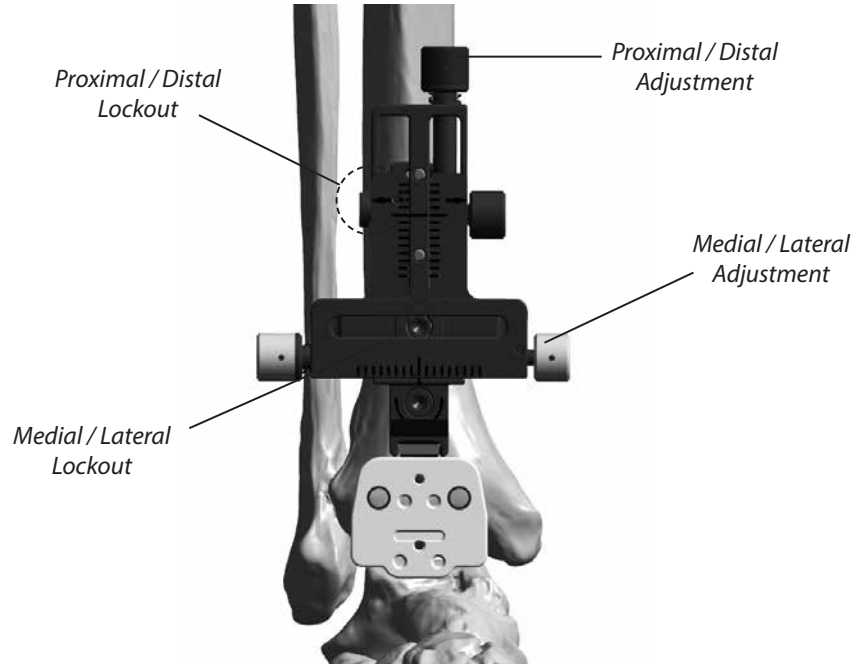
Incorrect -  
“Rainbow” c-arm  
or internally/  
externally rotate  
ankle to adjust

| **FIGURE 96**



| **FIGURE 97**

Once fluoroscopic alignment is established, use the Adjustment Block to translate the Coronal Sizing Guide to the center of the joint. The purple knob will translate the Guide proximal to distal and the green knobs will translate the Guide medial to lateral. After adjustments are set use the Hex Driver to lock out both positions. | **FIGURE 98**

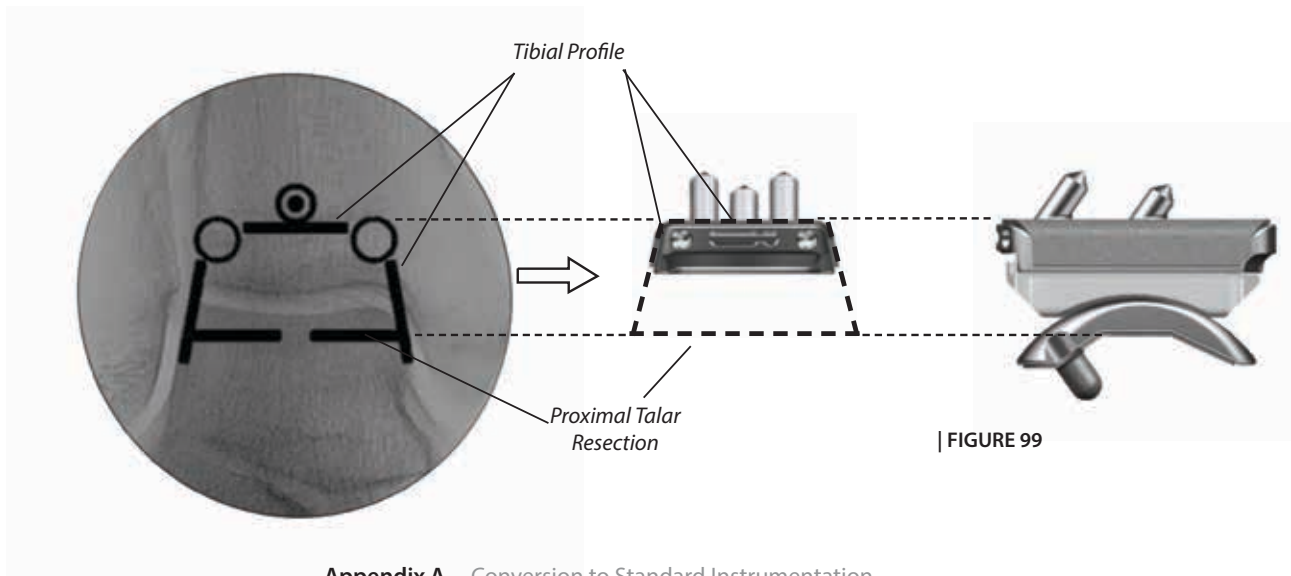


| **FIGURE 98**

The dark outlines in the Coronal Sizing Guide represent the tibial and talar bone resections as well as the coronal profile of the tibial component. | **FIGURE 99**

**CAUTION: For proper evaluation the ankle must be positioned at 90°**

Study the talus carefully, and if it is not in the 90 degree position due to posterior contracture, the surgeon should lengthen the Achilles tendon and remove anterior impinging osteophytes.



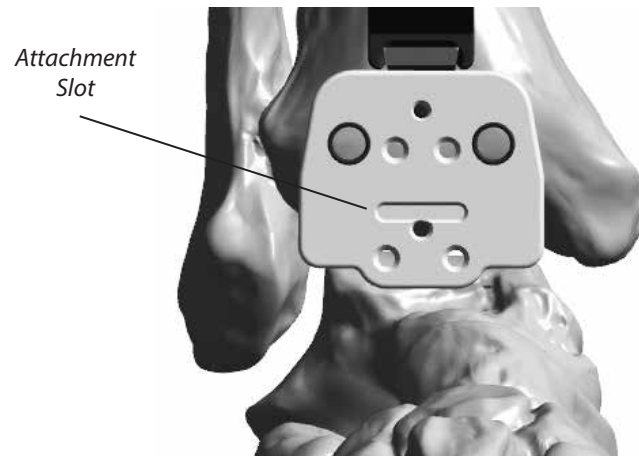
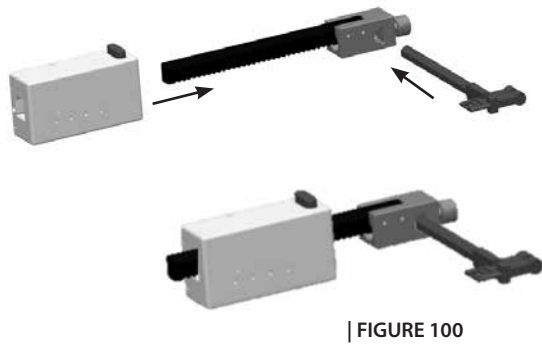
| **FIGURE 99**



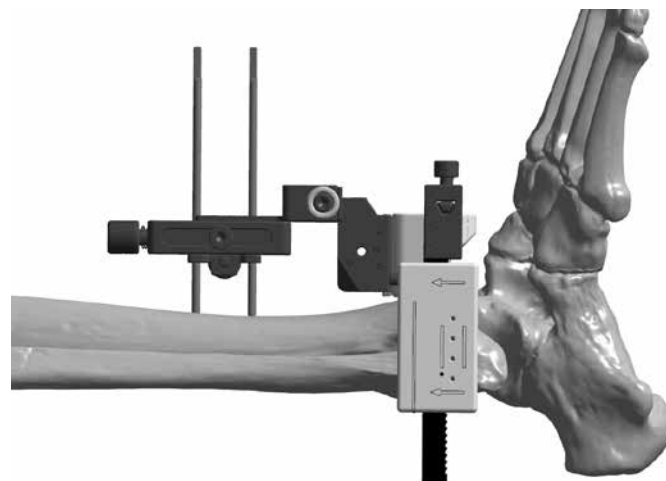
**NOTE:** If the surgeon chooses to forego the PROPHECY® Talar Alignment Guide and make a coupled tibia/talar resection continue with the following steps. Otherwise return to page 14 to complete the technique.

## Sagittal Plane Sizing and Resection Height

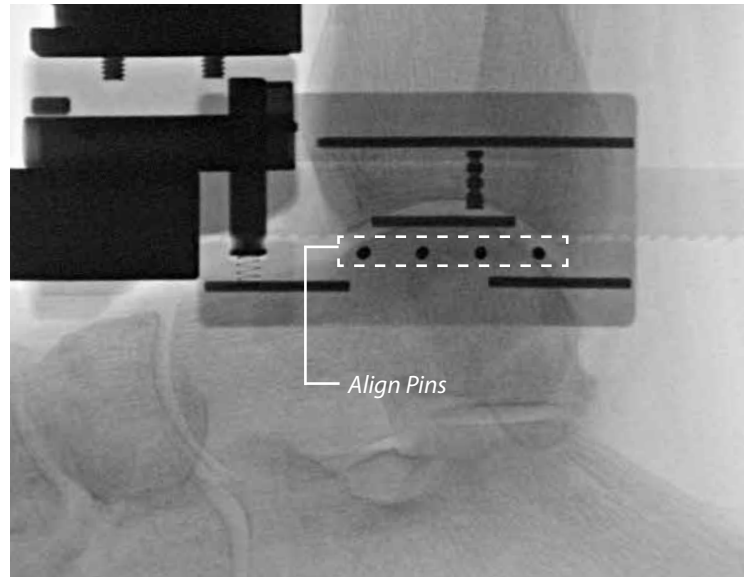
Slide the Sagittal Sizing Ratcheting Arm (33600068) onto the Sagittal Sizing Guide Arm (33600040) and install the Guide Arm into the Coronal Sizing Guide. Next slide the appropriately sized Sagittal Sizing Guide (33620042 through 33620045) onto the Ratcheting Arm. | **FIGURE 100** Attach the Sagittal Sizing Guide Assembly to the Coronal Guide by inserting the metal tab of the Guide Arm into the open slot of the Coronal Guide. | **FIGURE 101**



To minimize parallax distortion and magnification error the Sizing Guide should be oriented on the side of the ankle closest to the c-arm receiver and the Sagittal Sizing Guide should be placed as close to the bone as possible. | **FIGURE 102** Ideally the c-arm should be situated on the same side of the bed as the ankle being replaced in order to allow the ankle to be placed as close to the receiver as possible.

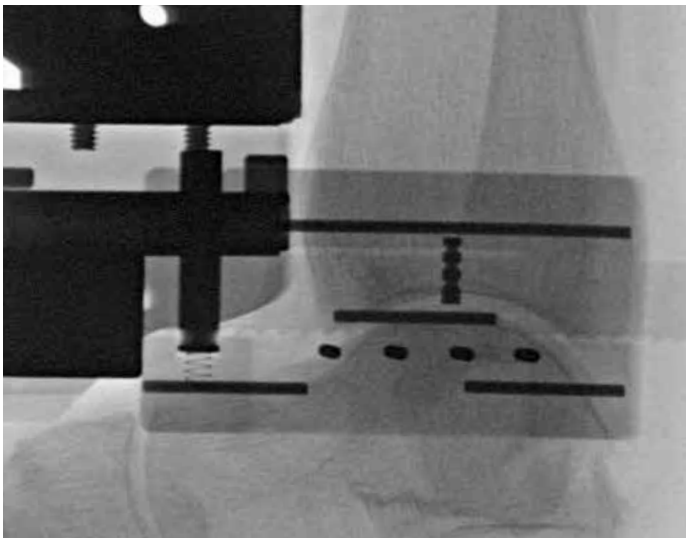


To obtain a true lateral view fluoroscopically ensure that the center row of talar alignment pins appear as true solid circles. | **FIGURE 103** These pins must be viewed "end on" to prevent misinterpretation of the fluoroscopic image.

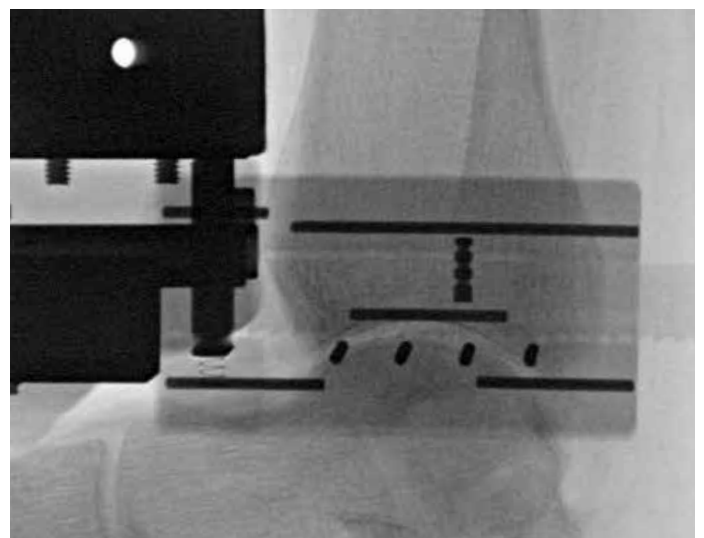


| **FIGURE 103**

Make c-arm adjustments as necessary in order to avoid parallax distortion. | **FIGURES 104 and 105**



Rotate or "Rainbow" c-arm to adjust | **FIGURE 104**

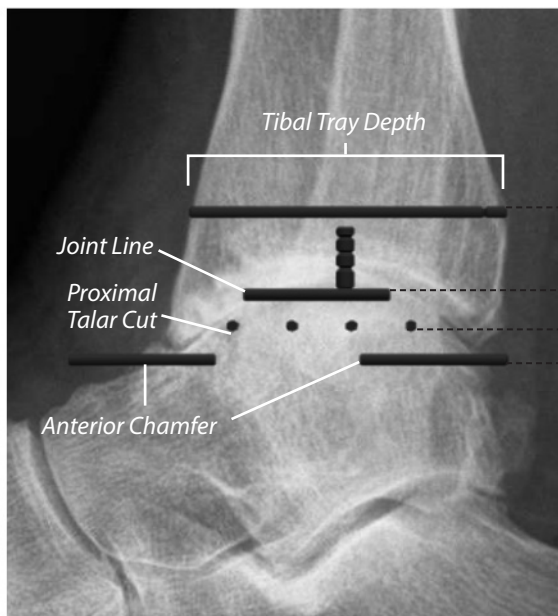


Swing or "Wig-Wag" c-arm to adjust | **FIGURE 105**

The Sagittal Sizing Guide is used to fluoroscopically set the proximal extent of the tibial resection, and distal extent of the talar resection. The Sizing Guide also has an indicator for the anterior to posterior dimension of the tibial implant. | FIGURES 106 and 107

**CAUTION: For proper evaluation the ankle must be positioned at 90°**

Turn the purple knob of the Adjustment Block to achieve the desired resection height. Multiple component sizes can be evaluated by replacing both corresponding Coronal and Sagittal Sizing Guides.



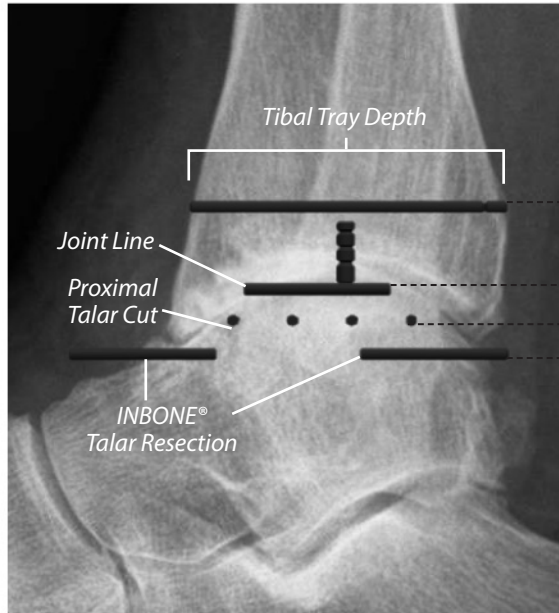
| FIGURE 106



| FIGURE 107

The Sagittal Sizing Guide contains fluoroscopic indicators that correspond to the joint line (top of the talar dome), height of the proximal talar cut, and the distal extent of the anterior chamfer. | FIGURES 106 and 107

Note that the distal extent of the anterior chamfer also corresponds to the flat cut surface of an INBONE® talar dome. | FIGURES 108 and 109



| FIGURE 108



| FIGURE 109

The Sagittal Sizing Guide also has a proximal/distal tibial resection depth indicator for evaluating the amount of tibial resection. In addition there is a notch in the tibia tray A/P length marker that allows the surgeon to evaluate whether a standard or long sized tibial tray may be required. | FIGURE 110



| FIGURE 110

## Drill Tibial Corners

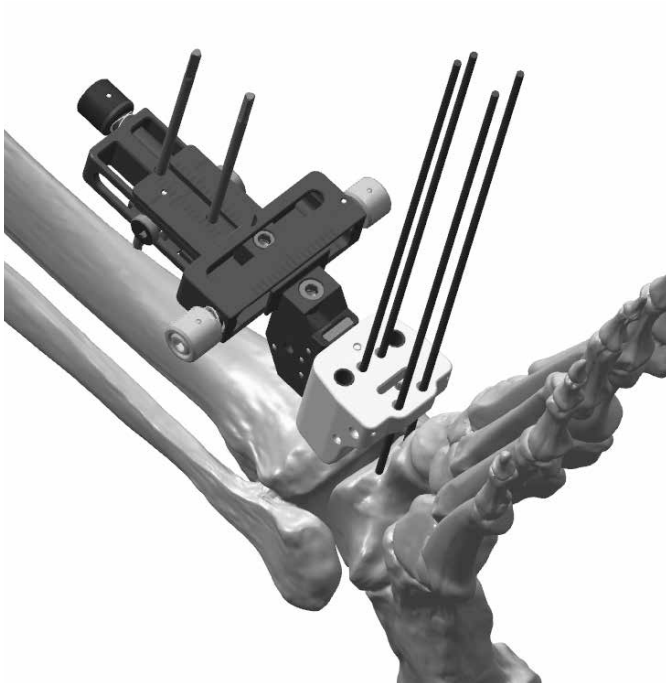
If any translational adjustments were made it is recommended to take a final AP fluoroscopic image to confirm coronal positioning.

Ensure that all Adjustment Block positions are secured with the Hex Driver and place four 2.4mm Steinmann Pins (200072) into the Coronal Sizing Guide.

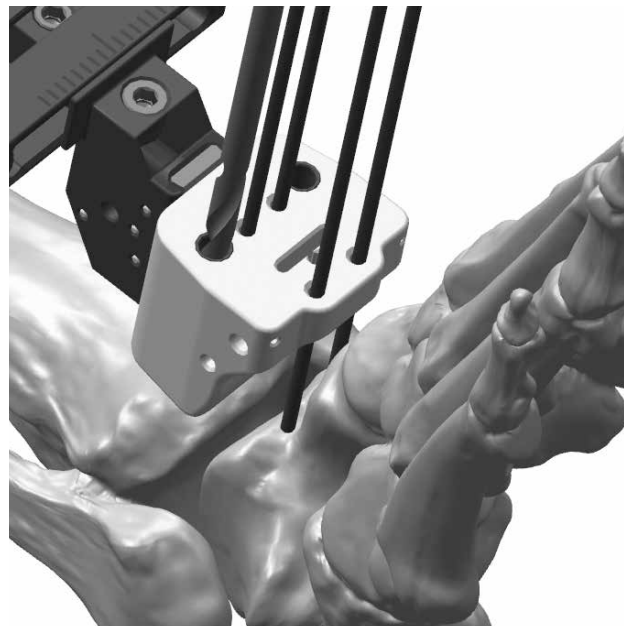
| **FIGURE 111** Place the two tibial pins first then place the talar pins.

**CAUTION: During installation of the distal talar pins it is critical that the ankle be positioned at 90°**

Using the Tibial Corner Drill (33600048), bi-cortically drill both proximal corners of the tibia. | **FIGURE 112**



| **FIGURE 111**



| **FIGURE 112**



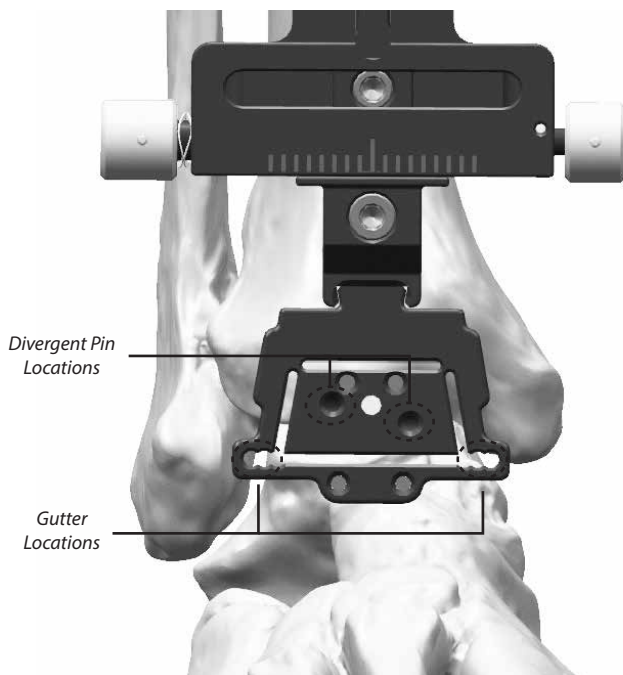
Tibial Corner Drill  
33600048

## Bone Resection

Remove the Coronal Sizing Guide and slide the appropriately sized Resection Guide (33620052 through 33620055) over the 2.4mm Pins and into the Adjustment Block. | **FIGURE 113** Secure with Hex Driver.

**Note:** For steps on how to utilize a flat-cut **INBONE® Talar Dome** instead of the standard chamfer-cut **INFINITY® Talar Dome** refer to **Appendix B**.

Install a 2.4mm Steinmann Pin into each gutter location. Using the Pin Cutter trim the Pins flush to the surface of the Resection Guide. | **FIGURE 114**



| **FIGURE 113**



| **FIGURE 114**



Resection Guide  
33620052 – 33620055



Pin Cutters  
200427

Optionally, for additional stability, install a 2.4mm Pin through one of the two divergent pin locations. | **FIGURE 113** When using a divergent pin always use the medial option (in which the pin travels medial to lateral). This will help avoid the neurovascular bundle posterior to the medial malleolus. Cut the pin leaving enough length to allow its later removal with a pin driver or pin puller but short enough to allow saw blade clearance in the medial resection slot (approximately 15mm).

Using the appropriate size Saw Blade and oscillating bone saw make the tibial and talar bone resections. This includes cutting through the proximal, distal, medial and lateral slots of the Resection Guide.

Remove the divergent Steinmann Pin then remove the Resection Guide and remaining Steinmann Pins. Check that the talar resection is complete by using a 1/2 inch osteotome. Complete the cut if necessary and gently lever the resected bone out anteriorly.

***Refer back to page 20 for the remaining steps to complete the procedure.***



## INBONE® Talar Dome Resection Technique

Slide the appropriately sized INFINITY®/INBONE® Resection Guide (33620252 through 33620255) over the existing 2.4mm Pins. If coupling the resections, secure the Guide into either the Adjustment Block or the PROPHECY® Conversion Instrument (not shown) using the Hex Driver. | **FIGURE 115** If the resections have already been decoupled, the INFINITY® Talar pin holes in the INFINITY®/INBONE® Resection Guide must be used. | **FIGURE 117**

Next, install two 2.4mm Pins through the INBONE® talar hole locations (proximal to the slot) and into the talus. | **FIGURE 116** Alternately, the two pin holes distal to the slot can be used if they are accessible and provide better bone purchase.



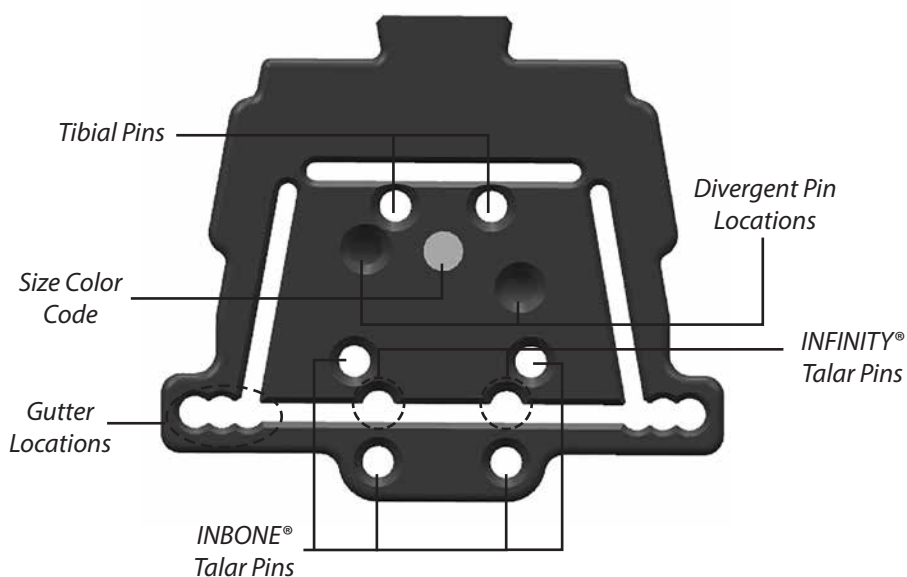
| FIGURE 115



| FIGURE 116



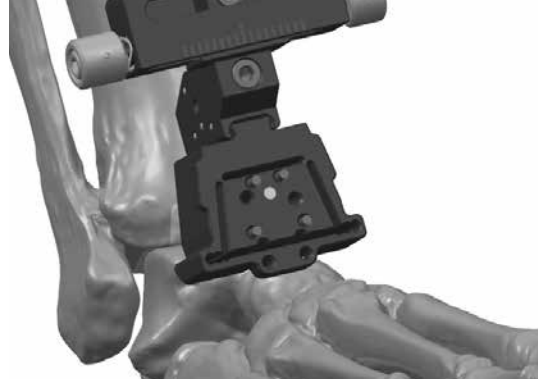
INFINITY®/INBONE®  
Resection Guide  
33620252 – 33620255



| FIGURE 117

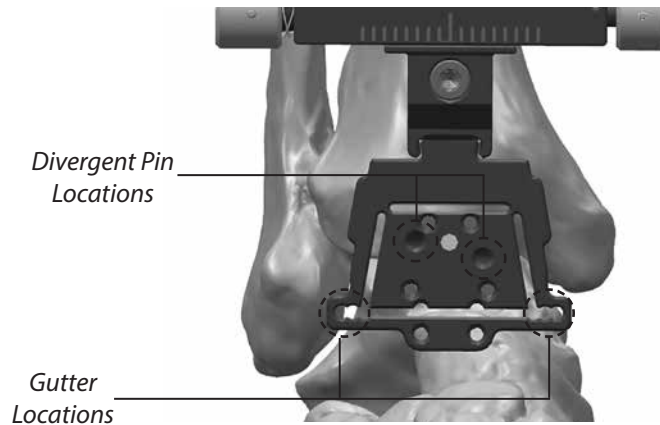


Remove the two 2.4mm Pins from the talar resection slot. Using the Pin Cutter trim the Pins flush to the surface of the Resection Guide. | **FIGURE 118**



| **FIGURE 118**

Optionally the surgeon can install a 2.4mm Steinmann Pin into each gutter location and an additional 2.4mm Pin through one of the divergent pin locations. | **FIGURE 119** When using a divergent pin always use the medial option (in which the pin travels medial to lateral). This will help avoid the neurovascular bundle just behind the medial malleolus.



| **FIGURE 119**

Using the Pin Cutter trim the gutter pins flush to the surface of the Resection Guide. Leave enough length on the divergent pin to allow its later removal with a pin driver or pin puller but short enough to allow saw blade clearance in the medial resection slot (approximately 15mm). Using the appropriate Saw Blade and oscillating bone saw make the tibia and talar resections.

Remove the Resection Guide. Check that the talar resection is complete by using a 1/2 inch osteotome. Complete the cut if necessary and gently lever the resected dome out anteriorly.

## **Tibial Bone Removal & Preparation**

Refer to pages 20 - 26 for instructions on bone removal and tibia preparation for the INFINITY® Tibial Tray.

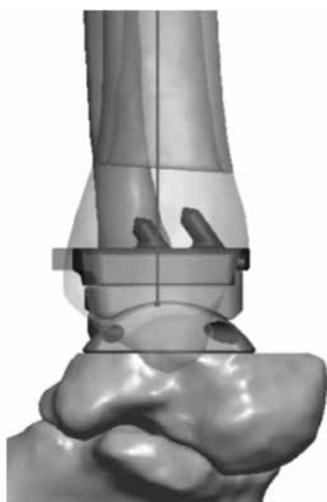
## **Implanting Tibial Tray**

Refer to pages 35 - 37 for instructions on the implantation of the INFINITY® Tibial Tray.

## **Verify Talar Dome Size**

After completing the implantation of the INFINITY® Tibial Tray, proceed with the preparation of the Talar Dome on page 62.

## PROPHECY® INBONE® Talar Dome Technique



| FIGURE 120

During the pre-operative planning stages of the PROPHECY® process, if the surgeon chooses to use an INBONE® Talar Dome instead of an INFINITY® Talar Dome this is possible due to the identical articulation geometry of the two systems. | FIGURE 120 The PROPHECY® Talus Guide will then be designed to set talar resection depth to the level of the INBONE® Talar Dome.

### Talar Alignment Guide

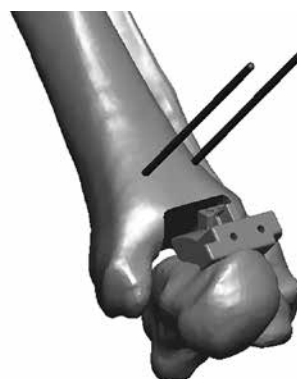
Place the foot into plantar flexion for maximum exposure of the talar dome and ensure the area around the neck and dome of the talus where the PROPHECY® guide will surface match is free of all soft tissue. Place the PROPHECY® Talus Alignment Guide (PROPINF or PROPINFE [EU only] ) on the talar surface in the best fit location. | FIGURES 121, 122 and 123

In the case of uneven talar dome cartilage wear, improved talar alignment guide accuracy may be achieved by carefully removing the cartilage with a curette from the surface-match area of the talus prior to placing the talus alignment guide.

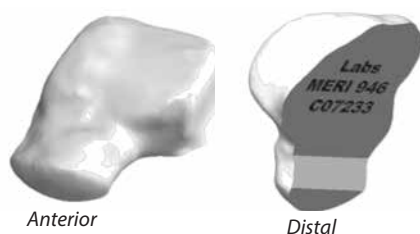
If any portion of the tibia bone prevents the talus guide from fitting properly on the talus, either remove more of the tibial resection or increase plantar flexion of the foot (or a combination of both).



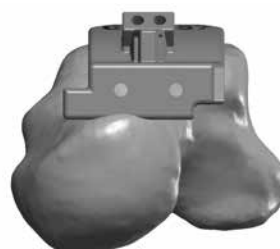
PROPHECY® Talus Alignment Guide  
PROPINF  
PROPINFE (EU only)



| FIGURE 121



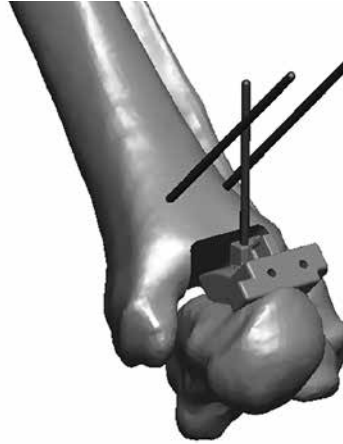
**Note:** Use the provided bone models as an additional tactile and visual confirmation that the talus guide is positioned correctly on the patient's bone.

| FIGURE 122  
Anterior View| FIGURE 123  
Medial-Oblique View

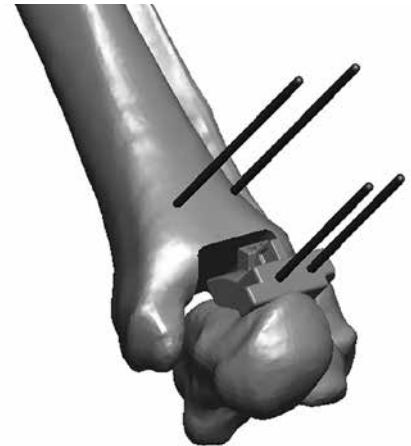


INFINITY®/INBONE®  
Resection Guide  
33620252 – 33620255

While holding the PROPHECY® guide in place install one 2.4mm Steinmann Pin through the top of the guide into the dome of the talus to temporarily hold the guide in place. | **FIGURE 124** Next, install two 2.4mm Steinmann Pins through the anterior pin holes of the Talus Alignment Guide and into the talar bone. Remove the Steinmann Pin in the top of the guide. | **FIGURE 125** Do not cut the remaining pins at this time. Remove the PROPHECY® guide by sliding it up and over the pins, leaving the pins in place. It may be helpful to attach a Kocher clamp to the notches built into the central triangular feature of the talar guide to pull the guide up.



| FIGURE 124



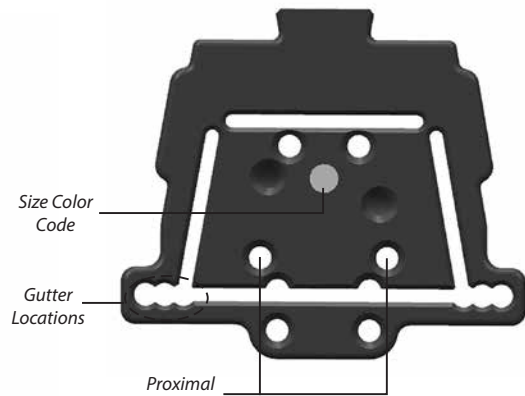
| FIGURE 125

## Talar Bone Resection

Choose the appropriately sized INFINITY®/INBONE® Resection Guide (33600252 through 33600255), position the 2 proximal talar pin holes over the 2 pins from the PROPHECY® Talus Alignment Guide and slide down to the anterior surface of the talar dome. | **FIGURE 126 and 127** The Resection Guide will not necessarily be the same size used in the tibial resection. Consult the PROPHECY® pre-op plan for confirmation.



| FIGURE 126



| FIGURE 127

**Note:** In some cases, the PROPHECY® talus guide may be designed to place pins that utilize alternative holes in the resection guide for optimal fixation. Refer to the patient specific PROPHECY® case report to confirm which holes to use in the resection guide.

The surgeon has the option to fluoroscopically verify the proximal/distal location and flexion/extension angle of the talar component prior to talar resection. Obtain a true lateral view by aligning the c-arm so that both talar Steinmann Pins appear as one.

In addition the surgeon can compare to images in the PROPHECY® Pre-Operative plan to verify accuracy of the talar guide.

Insert two additional 2.4mm Steinmann pins into the medial and lateral gutters for protection of the malleoli. Use the Pin Cutter to cut the Steinmann pins close to the surface of the Resection Guide.

Using the appropriate Saw Blade and oscillating bone saw make the talar resection (distal slot of the Saw Guide).

***CAUTION: It may be necessary to manually hold the resection guide in place as excessive vibration from the saw can cause the Saw Guide to work itself off the ends of the cut Steinmann Pins.***

Remove the Resection Guide. Check that the talar resection is complete by using a 1/2 inch osteotome. Complete the cut if necessary and gently lever the resected dome out anteriorly.

## Tibial Bone Removal & Preparation

Refer to pages 20 - 26 for instructions on bone removal and tibia preparation for the INFINITY® Tibial Tray.

## Implanting Tibial Tray

Refer to pages 35 - 37 for instructions on the implantation of the INFINITY® Tibial Tray.

## Verify Talar Dome Size

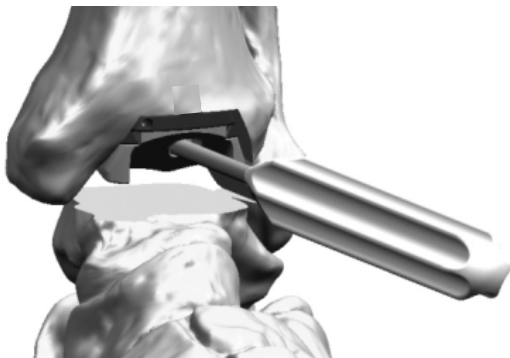
After completing the implantation of the INFINITY® Tibial Tray, proceed with the preparation of the Talar Dome on page 62.

## Verify Talar Dome Size

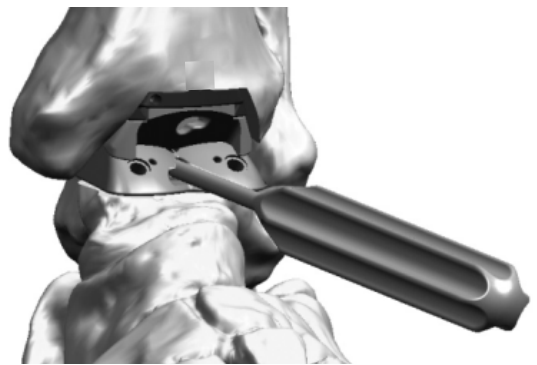
Perform a thorough gutter debridement. The surgeon must be certain that there is no residual bone impinging between the talus and the medial fibula and lateral tibia. The talus must now be completely independent of the remaining ankle joint, free to rotate into its anatomic center of rotation, as well as translate to establish a position beneath the tibial tray. To achieve this, a generous debridement may be necessary.

Using the Poly Insert Trial Holding Tool (IB200110) install the appropriately sized Poly Insert Trial (33621106 through 33625512) into the Tibial Tray. | **FIGURE 119** The locking tab of the Poly Insert Trial should engage the Tibial Tray.

Assemble the appropriately sized Talar Dome Trial (IB220902 through IB220905) and Talar Dome Holding Tool (IB200010) and introduce the Dome Trial into the joint space. | **FIGURE 120**



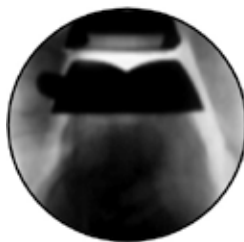
| **FIGURE 119**



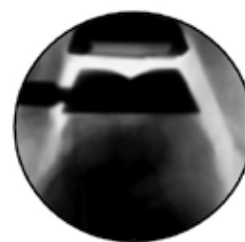
| **FIGURE 120**



The surgeon has two options for Talar Dome implant size at this juncture: either the matching size for the implanted Tibial Tray, or one size smaller. It is beneficial to assess both sizes under A/P and lateral fluoroscopic images. Please note that the A/P image is critical for sizing the talar component, as the surgeon's goal is to minimize overhang of the talar component, and thus minimize prosthetic impingement in the medial and lateral gutters of the ankle joint. | **FIGURES 121 and 122**



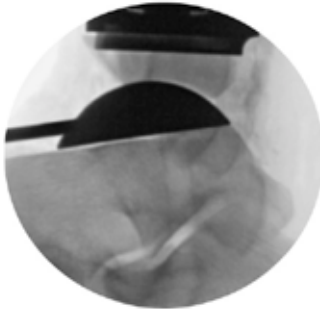
| **FIGURE 121**



| **FIGURE 122**

## Trial Reduction

Under lateral plane fluoroscopy ensure the posterior portion of the talar component is resting on the posterior portion of the patient's residual talus (establish congruence). | **FIGURE 123**

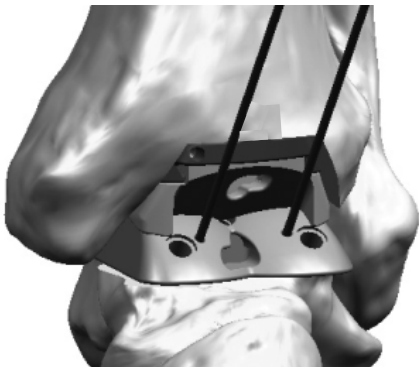


| **FIGURE 123**

While holding the talus in this position, use a marking pen to mark the anterior portion of the talar component with reference to the patient's residual talus.

Be sure to observe the talar component with reference to the line on the residual talus previously drawn. This will ensure the talar component does not migrate anteriorly during the range of motion.

To accurately perform the range of motion, place some axial compression of the components to maintain position, and flex and extend the ankle. The surgeon will observe the talar component rotating into the anatomic position for this particular patient. Note that the surgeon must not only be cognizant of the talar position in the lateral plane, but must simultaneously maintain medial/lateral coverage as evidenced by the previous A/P plane fluoroscopic views.



| **FIGURE 124**

Once the Talar Dome Trial has settled into optimum anatomical position, install two 1.4mm pins (500036) through the Talar Dome Trial to temporarily hold it in place.

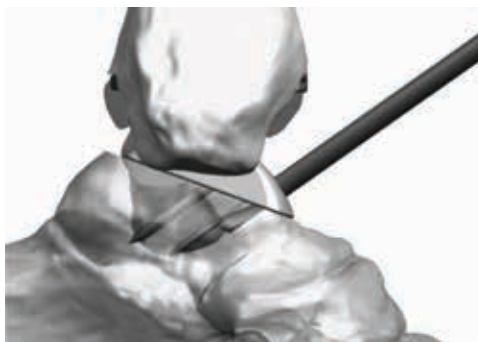
| **FIGURE 124**

**NOTE: with the talar component pinned in position, the surgeon should once again place the ankle through a range of motion to ensure tibio-talar articular congruence. Also, confirm through lateral fluoroscopy that the prosthesis did not shift anteriorly.**

Refer back to page 41 for further details on choosing the appropriate polyethylene thickness.

## Talar Preparation

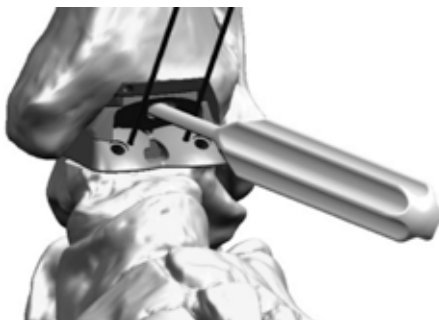
Using the 4mm Anterior Peg Drill (IB200020), drill a hole through the medial and lateral openings in the Talar Dome Trial. The drill has a hard stop designed to set the appropriate drilling depth in the talus for the Talar Dome anterior pegs. | **FIGURE 125**



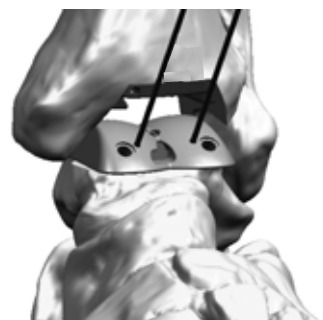
| **FIGURE 125**

Use the Poly Insert Trial Holding Tool to remove the Poly Insert Trial. Foot may be plantarflexed to aid in removal of Poly Insert Trial. | **FIGURES 126 and 127**

**CAUTION:** *The Poly Insert Trial has a small locking tab that engages the Tibial Tray. To remove Poly Insert Trial be sure to first pull down on the holding tool to disengage tab before pulling out.*



| **FIGURE 126**



| **FIGURE 127**

Install a 2.4mm Steinmann Pin through the center of the Talar Dome Trial to the depth of the selected Talar Stem using a lateral view to verify depth. Be certain that the Talar Dome Trial is sitting flush with the cut line of the talus before placing this pin. | **FIGURE 128**



| **FIGURE 128**



4mm Anterior Peg Drill  
IB200020

Remove 1.4mm Pins and use the Talar Dome Trial Holding Tool to slide the Talar Dome Trial off the remaining 2.4mm Pin. The foot may be plantarflexed to aid in removal of the Talar Dome Trial.

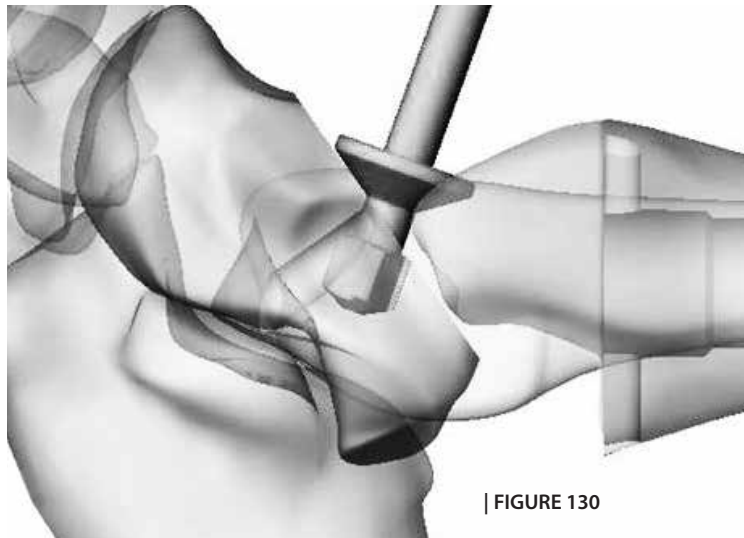


## Ream for Talar Stem

Install the appropriate length Talar Stem Reamer (10mm-200432010 or 14mm-200432014) over the pin and ream to the depth of the selected talar stem. | **FIGURE 129** The reamer has a hard stop designed to set the appropriate reaming depth. | **FIGURE 130** Optionally, use a lateral fluoroscopic view to verify depth.



| FIGURE 129



| FIGURE 130



Talar Stem Reamers  
(10mm-200432010)  
(14mm-200432014)

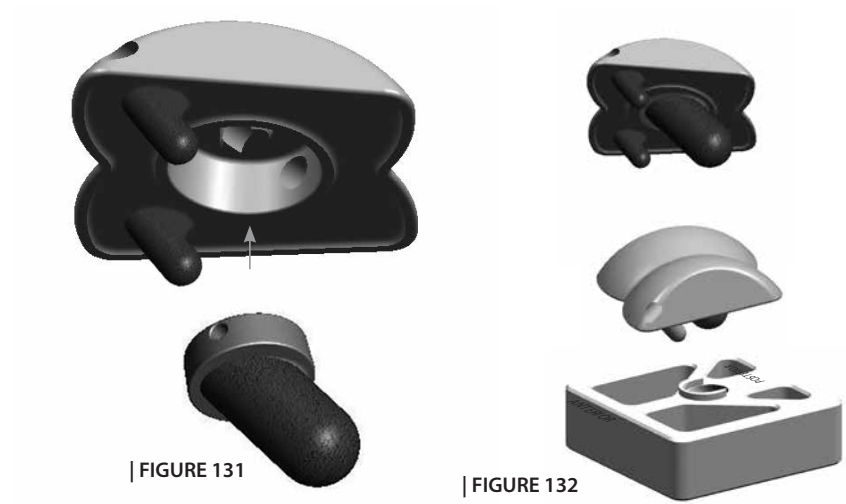
**CAUTION: The Talar Stem is not intended for subtalar fusion or subtalar joint impingement. Please carefully evaluate the anatomy of each patient before implantation.**

Remove the Reamer and Steinmann Pin.

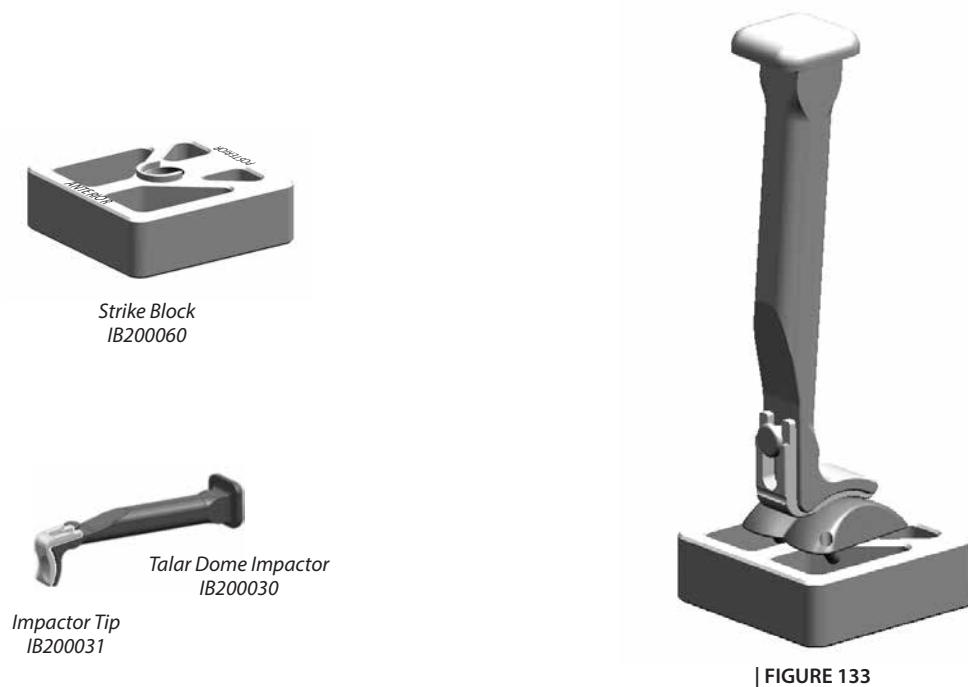
## Assemble Talar Stem

Insert the appropriate sized Talar Stem into the bottom of the Talar Dome | **FIGURE 131**, aligning the oblong post and matching the oblong hole in the Talar Stem. Talar Stem and anterior pegs should be parallel.

Insert the Talar Stem and Talar Dome assembly into the Strike Block (IB200060). | **FIGURE 132**



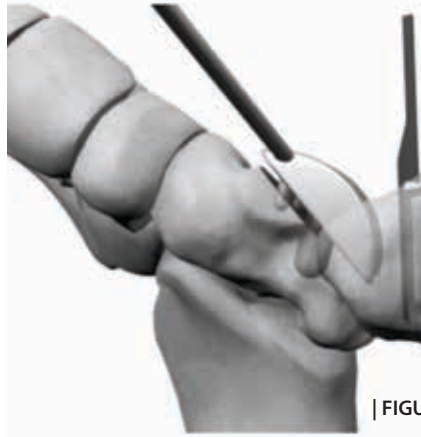
Align the Dome Strike Tool (IB200030 and IB200031) on the Talar Dome and with a mallet, hit the top of the strike tool 2-3 times to fully seat the Talar Stem. | **FIGURE 133**



## Install Talar Dome

Place the foot in plantar flexion and insert the Tibial Tray Protector (33620152 through 33620155) into the Tibial Tray to protect the Talar Dome surface during installation. Apply bone cement to the bottom surface of the Talar Dome.

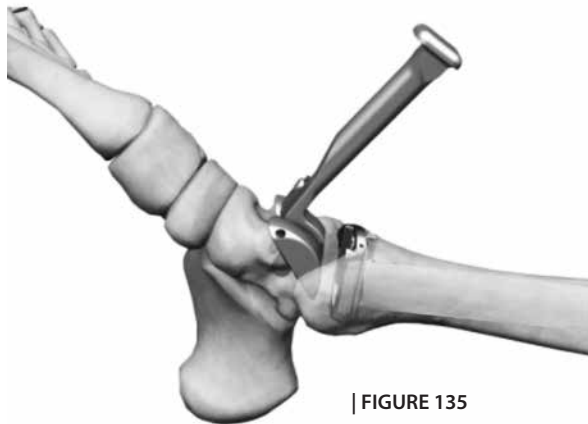
Thread the M4 Holding Tool (200364003) into the corner of the Talar Dome and introduce the Talar Dome into the joint space, aligning the Talar Stem and pegs with the prepared holes in the talus. | **FIGURE 134** Once the Talar Dome is aligned, remove the Tray Protector.



| FIGURE 134

**CAUTION: The INBONE® Total Ankle is intended for cemented use only.**

Align the Talar Dome Impactor on the Talar Dome and with a mallet, hit the top of the Impactor to fully seat the Talar Dome. | **FIGURE 135** Utilize a lateral fluoroscopic image to ensure that the Talar Dome is fully seated. If the Talar Dome is difficult to fully seat in hard bone, it may be advisable to remove the Talar Dome and increase the diameter of the anterior peg holes slightly with the 4mm drill.



| FIGURE 135



Tibial Tray Protector  
33620152 - 33620155



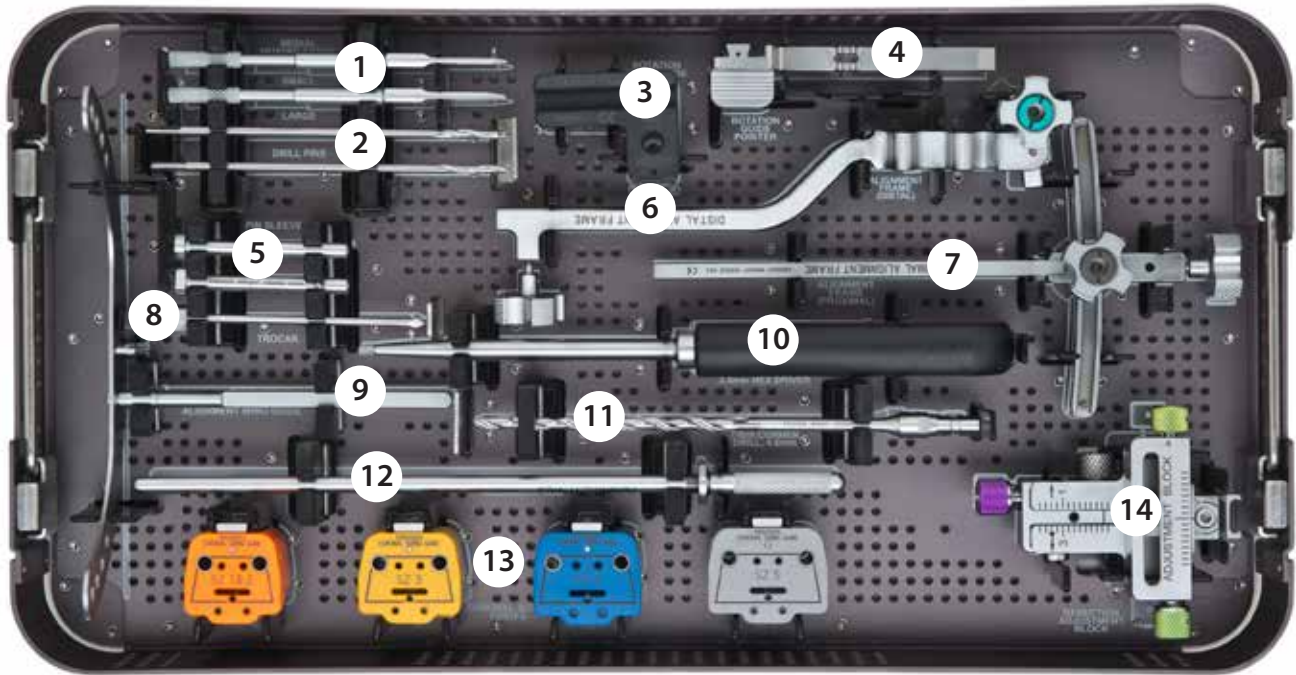
Holding Tool  
M4 - 200364003

## Polyethylene Bearing Installation

Following final impaction of the Talar Dome, refer to page 39 for instructions on the Polyethylene Bearing Installation.

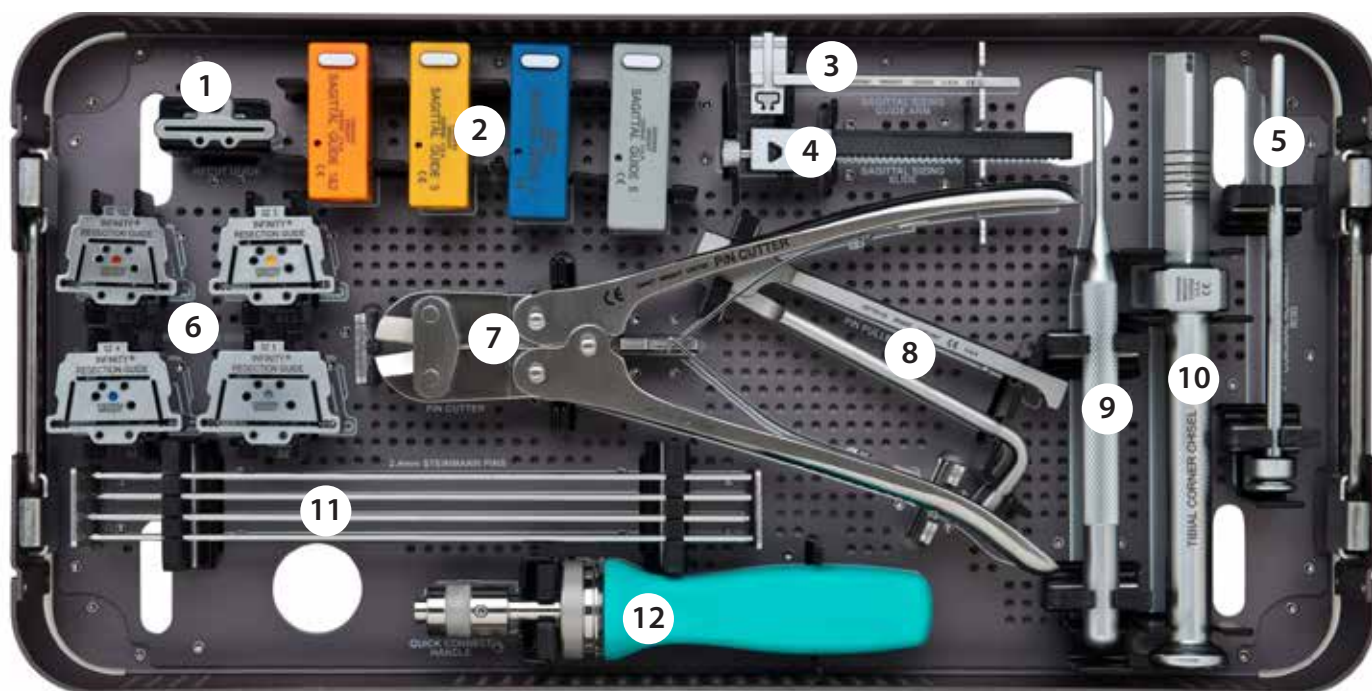
# INFINITY® Instrumentation

## 3365KIT1 Case 1, Tray 1



- |   |   |
|---|---|
| 1. Medial Gutter Forks (33600009 & 33600010)    | 8. Trocar (33600026)                            |
| 2. Pins 3.2mm x 102mm (33610001)                | 9. Alignment Wing Guide (33600023)              |
| 3. Rotation Guide Slide (33600012)              | 10. 3.5mm Hex Driver (E5001005)                 |
| 4. Rotation Guide Pointer (33600011)            | 11. 4.8mm Tibial Corner Drill (33600048)        |
| 5. Pin Sleeves (33600025)                       | 12. Alignment Rod (33600024)                    |
| 6. Alignment Frame Distal Assembly (33600020)   | 13. Coronal Sizing Guides (33620032 - 33620035) |
| 7. Alignment Frame Proximal Assembly (33600021) | 14. Resection Guide Adjustment Block (33600030) |

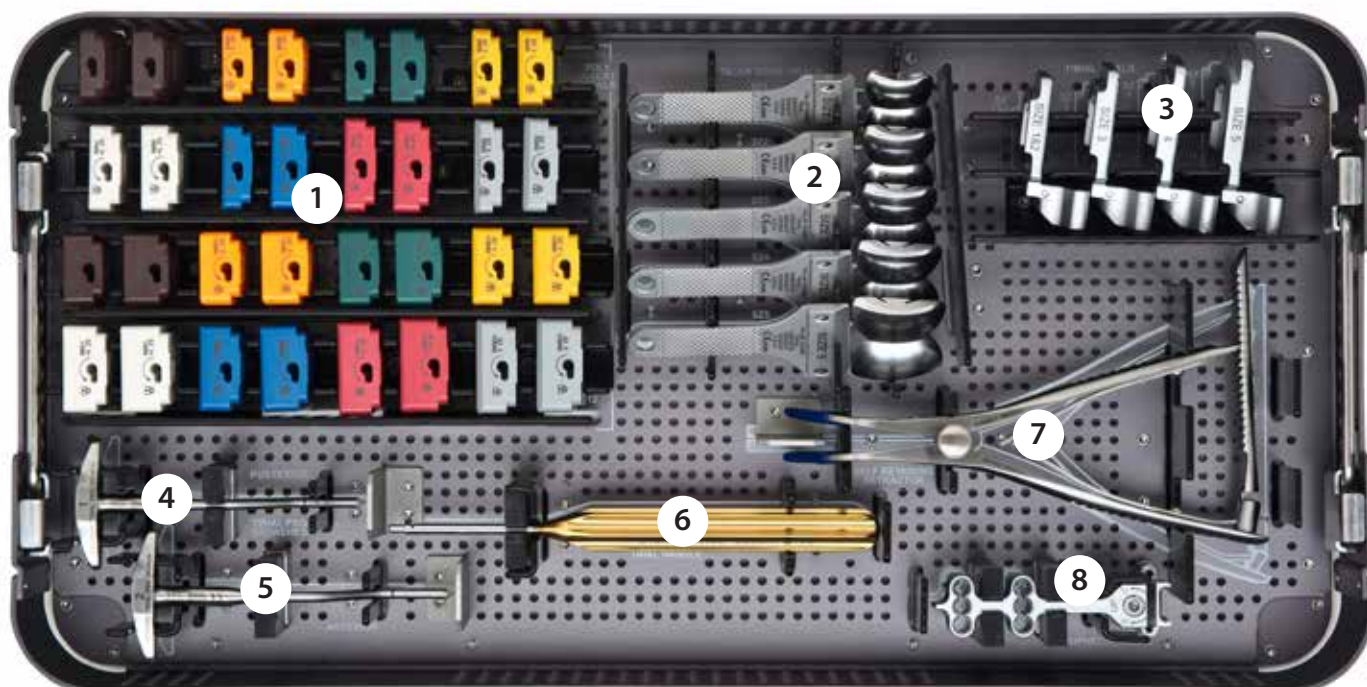
**3365KIT1**  
**Case 1, Tray 2**



1. Talar 2mm Recut Guide (33609056)
2. Sagittal Sizing Guides (33620042 - 33620045)
3. Sagittal Sizing Guide Arm (33600040)
4. Sagittal Sizing Guide Ratchet Arm (33600068)
5. Coronal Alignment Rod (33600027)
6. Resection Guides (33620052 - 33620055)
7. Pin Cutter (200427)
8. Pin Puller (18770140)
9. Bone Release Tool (IB200050)
10. Tibia Corner Chisel (33600058)
11. Steinmann Pins 2.4mm (200072)
12. Quick Connect Handle (44180025)

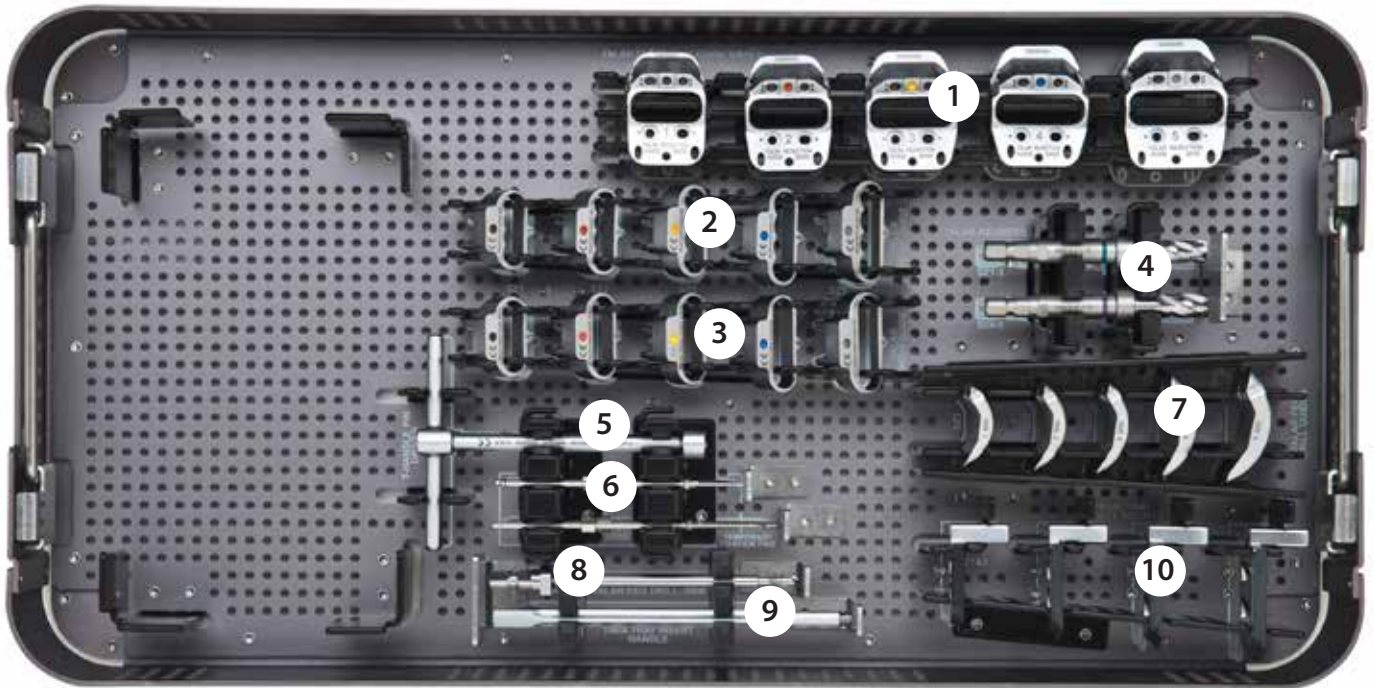


3365KIT1  
Case 2, Tray 1



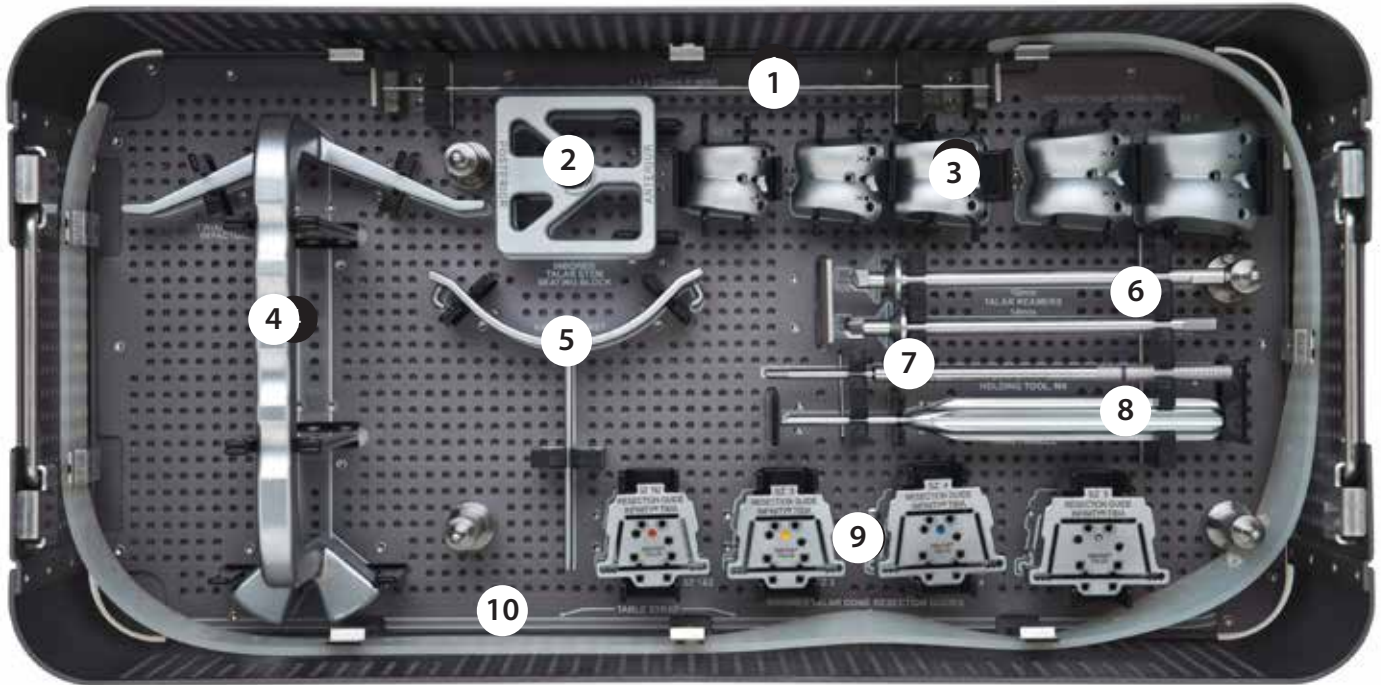
1. Poly Insert Trials (33621106 - 33625512)
2. Talar Dome Trials (33600071 - 33600075)
3. Tibial Tray Trials (33620062 - 33620065)
4. Posterior Tibial Peg Broach (33600069)
5. Anterior Tibial Peg Broach (33600067)
6. Poly Trial Handle (IB200110)
7. Self Retaining Laminar Spreader (33609012)
8. PROPHECY® Conversion Guide (33600200)

**3365KIT1**  
**Case 2, Tray 2**



1. Talar Resection Guide Bases (33600091 - 33600095)
2. Talar Chamfer Pilot Guides (33600101 - 33600105)
3. Talar Chamfer Finish Guides (33600111 - 33600115)
4. Talar Reamers (33600123 & 33600126)
5. T-Handle Pin Driver (33600120)
6. Threaded Talar Pins (3361002 & 33610003)
7. Talar Peg Drill Guides (33600161 - 33600165)
8. Talar Peg Drill, 4mm (IB200020)
9. Tibial Tray Insertion Handle (33600130)
10. Tibial Tray Impaction Inserts (33600132 - 33620135)

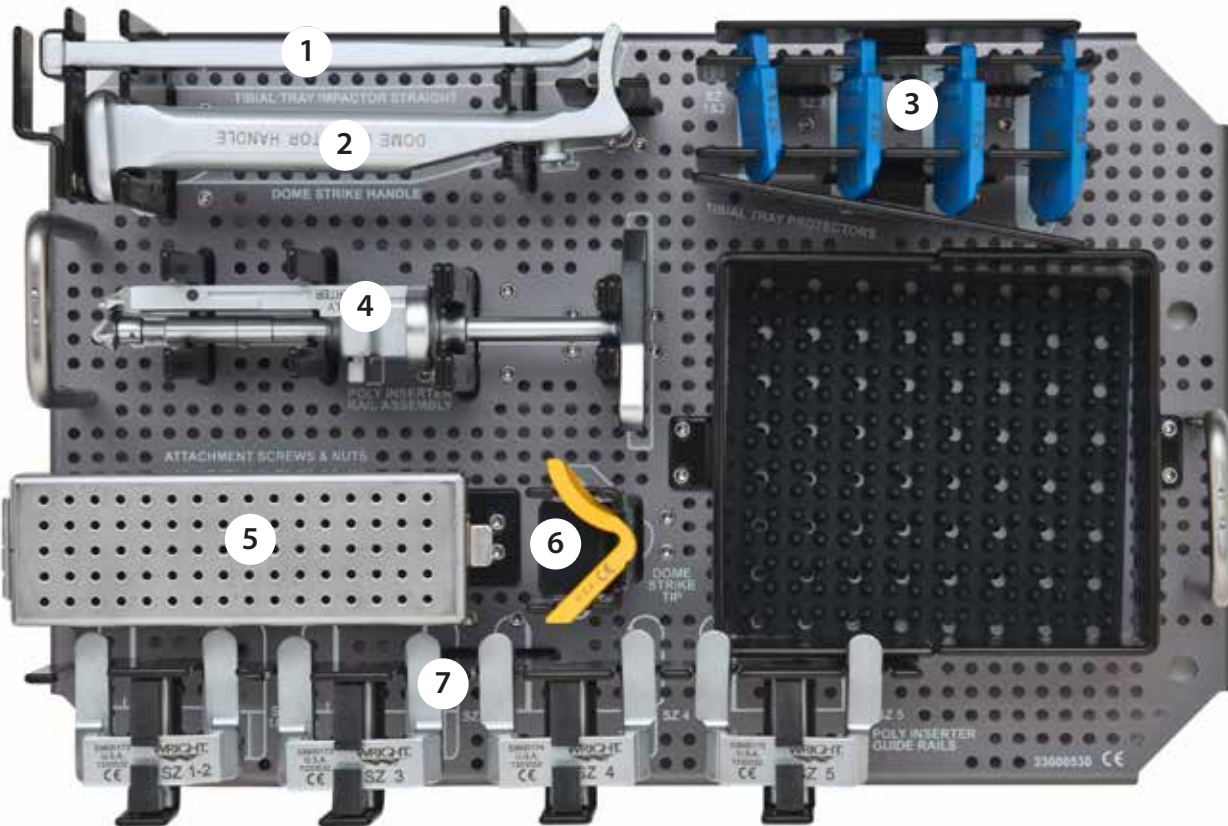
**3365KIT1**  
**Case 3, Tray 1**



1. K-Wires 1.4mm x 228mm (500036)
2. INBONE® Talar Stem Seating Block (IB200060)
3. INBONE® Talar Dome Trials (IB220901 – IB220905)
4. Tibial Tray Offset Impactor (33600140)
5. Knee Bracket (33600022)
6. INBONE® Talar Stem Reamers (200432010 & 200432014)
7. INBONE® Talar Dome M4 Holding Tool (200364003)
8. INBONE® Talar Dome Trial Handle (IB200010)
9. INBONE® Talar Dome Resection Guides (33620252 - 33620255)
10. Table Strap (200430)



## 3365KIT1



1. Straight Impactor (33600141)
2. Dome Strike Handle (IB200030)
3. Tibial Tray Protectors (33620152 - 33620155)
4. Poly Inserter Assembly (33600170)
5. Attachment Screws (33600190) & Nuts (33600191)
6. Dome Strike Tip (IB200031)
7. Poly Inserter Guide Rails (33600172 - 33600175)

### 3365KIT1 - INFINITY® Instrument Kit

Part #	Description
33600009	MEDIAL GUTTER FORK, SMALL
33600010	MEDIAL GUTTER FORK, LARGE
33600011	ROTATION GUIDE POINTER
33600012	ROTATION GUIDE SLIDE
33600020	ALIGNMENT FRAME DIST SUB ASSY
33600021	ALIGNMENT FRAME PROX SUB ASSY
33600022	KNEE BRACKET
33600023	ALIGNMENT WING GUIDE
33600024	ALIGNMENT ROD
33600025	PIN SLEEVE
33600026	TROCAR
33600030	RESECTION ADJUSTMENT BLOCK
33620032	CORONAL SIZING GUIDE, SZ 1-2
33620033	CORONAL SIZING GUIDE, SZ 3
33620034	CORONAL SIZING GUIDE, SZ 4
33620035	CORONAL SIZING GUIDE, SZ 5
33620040	SAGITTAL SIZING GUIDE ARM
33620042	SAGITTAL SIZING GUIDE, SZ1-2
33620043	SAGITTAL SIZING GUIDE, SZ3
33620044	SAGITTAL SIZING GUIDE, SZ4
33620045	SAGITTAL SIZING GUIDE, SZ5
33600048	TIBIAL CORNER DRILL, 4.8MM
33620052	RESECTION GUIDE, SZ 1-2
33620053	RESECTION GUIDE, SZ 3
33620054	RESECTION GUIDE, SZ 4
33620055	RESECTION GUIDE, SZ 5
33600058	TIBIAL CORNER CHISEL

Part #	Description
33620062	TRIAL TIBIAL TRAY, SZ1-2
33620063	TRIAL TIBIAL TRAY, SZ3
33620064	TRIAL TIBIAL TRAY, SZ4
33620065	TRIAL TIBIAL TRAY, SZ5
33600069	TIBIAL PEG DRILL, 3.7MM
33600071	TRIAL TALAR DOME, SZ1
33600072	TRIAL TALAR DOME, SZ2
33600073	TRIAL TALAR DOME, SZ3
33600074	TRIAL TALAR DOME, SZ4
33600075	TRIAL TALAR DOME, SZ5
33600091	TALAR RESECT GUIDE BASE, SZ1
33600092	TALAR RESECT GUIDE BASE, SZ2
33600093	TALAR RESECT GUIDE BASE, SZ3
33600094	TALAR RESECT GUIDE BASE, SZ4
33600095	TALAR RESECT GUIDE BASE, SZ5
33600101	ANTER TALAR PILOT GUIDE, SZ1
33600102	ANTER TALAR PILOT GUIDE, SZ2
33600103	ANTER TALAR PILOT GUIDE, SZ3
33600104	ANTER TALAR PILOT GUIDE, SZ4
33600105	ANTER TALAR PILOT GUIDE, SZ5
33600111	ANTER TALAR FINISH GUIDE, SZ1
33600112	ANTER TALAR FINISH GUIDE, SZ2
33600113	ANTER TALAR FINISH GUIDE, SZ3
33600114	ANTER TALAR FINISH GUIDE, SZ4
33600115	ANTER TALAR FINISH GUIDE, SZ5
33600120	T-HANDLE PIN DRIVER
33600123	TALAR REAMER, SZ 1-3
33600126	TALAR REAMER, SZ 4-6

### 3365KIT1 - INFINITY® Instrument Kit

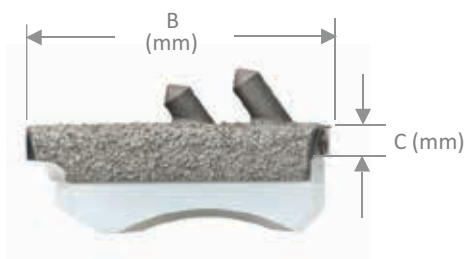
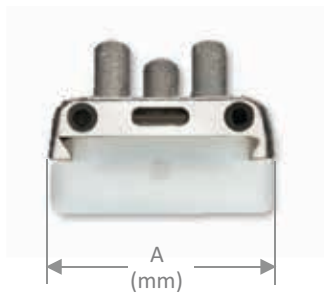
Part #	Description
33600130	TIBIAL TRAY INSERT HANDLE
3360132	TIB TRAY IMPACT INSERT, SZ1-2
33600133	TIB TRAY IMPACT INSERT, SZ3
33600134	TIB TRAY IMPACT INSERT, SZ4
33600135	TIB TRAY IMPACT INSERT, SZ5
33600140	TIBIAL TRAY IMPACTOR, OFFSET
33600141	TIBIAL TRAY IMPACTOR, STRAIGHT
33620152	TIBIAL TRAY PROTECTOR, SZ1-2
33620153	TIBIAL TRAY PROTECTOR, SZ3
33620154	TIBIAL TRAY PROTECTOR, SZ4
33620155	TIBIAL TRAY PROTECTOR, SZ5
33600161	TALAR PEG DRILL GUIDE, SZ1
33600162	TALAR PEG DRILL GUIDE, SZ2
33600163	TALAR PEG DRILL GUIDE, SZ3
33600164	TALAR PEG DRILL GUIDE, SZ4
33600165	TALAR PEG DRILL GUIDE, SZ5
33600170	POLY INSERTER RAIL ASSY
33600172	POLY INSERT GUIDE RAIL, SZ1-2
33600173	POLY INSERT GUIDE RAIL, SZ3
33600174	POLY INSERT GUIDE RAIL, SZ4
33600175	POLY INSERT GUIDE RAIL, SZ5
33600190	POLY INSERT ATTACHMENT SCREW
33600191	POLY INSERT ATTACHMENT NUT
33620252	RESECTION GUIDE INBONE® TALUS, SZ1-2
33620253	RESECTION GUIDE INBONE® TALUS, SZ3
33620254	RESECTION GUIDE INBONE® TALUS, SZ4
33620255	RESECTION GUIDE INBONE® TALUS, SZ5

Part #	Description
33621106	TRIAL POLY INSERT, SZ1/1+ 6MM
33621108	TRIAL POLY INSERT, SZ1/1+ 8MM
33621110	TRIAL POLY INSERT, SZ1/1+ 10MM
33621112	TRIAL POLY INSERT, SZ1/1+ 12MM
33622206	TRIAL POLY INSERT, SZ2 6MM
33622208	TRIAL POLY INSERT, SZ2 8MM
33602210	TRIAL POLY INSERT, SZ2 10MM
33602212	TRIAL POLY INSERT, SZ2 12MM
33623206	TRIAL POLY INSERT, SZ2+ 6MM
33623208	TRIAL POLY INSERT, SZ2+ 8MM
33603210	TRIAL POLY INSERT, SZ2+ 10MM
33603212	TRIAL POLY INSERT, SZ2+ 12MM
33623306	TRIAL POLY INSERT, SZ3 6MM
33623308	TRIAL POLY INSERT, SZ3 8MM
33603310	TRIAL POLY INSERT, SZ3 10MM
33603312	TRIAL POLY INSERT, SZ3 12MM
33624307	TRIAL POLY INSERT, SZ3+ 7MM
33624309	TRIAL POLY INSERT, SZ3+ 9MM
33604311	TRIAL POLY INSERT, SZ3+ 11MM
33604313	TRIAL POLY INSERT, SZ3+ 13MM
33624406	TRIAL POLY INSERT, SZ4 6MM
33624408	TRIAL POLY INSERT, SZ4 8MM
33604410	TRIAL POLY INSERT, SZ4 10MM
33604412	TRIAL POLY INSERT, SZ4 12MM
33625407	TRIAL POLY INSERT, SZ4+ 7MM
33625409	TRIAL POLY INSERT, SZ4+ 9MM
33605411	TRIAL POLY INSERT, SZ4+ 11MM
33605413	TRIAL POLY INSERT, SZ4+ 13MM
33625506	TRIAL POLY INSERT, SZ5 6MM
33625508	TRIAL POLY INSERT, SZ5 8MM
33605510	TRIAL POLY INSERT, SZ5 10MM
33605512	TRIAL POLY INSERT, SZ5 12MM

### 3365KIT1 - INFINITY® Instrument Kit

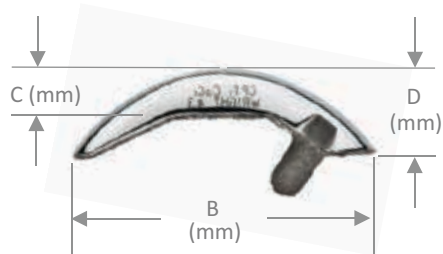
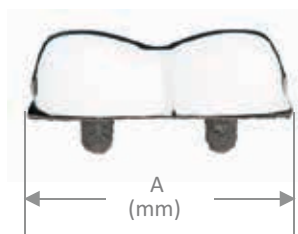
Part #	Description
33609012	SELF RETAINING LAMINAR SPREADERS
33610001	PIN 3.2MM X 102MM
33610002	TEMP FIX PIN, TALAR GUIDE LONG
33610003	TEMP FIX PIN, TALAR GUIDE SHORT
E5001005	EVOLUTION® 3.5MM HEX DRIVER
200430	INBONE® TABLE STRAP
200072	INBONE® STEINMANN PIN, 2.4MM
IB200050	INBONE® BONE RELEASE TOOL
IB200110	INBONE® HANDLE TRIAL IMPLANTS
IB200020	INBONE® DRILL TALAR PEG, 4MM
IB200030	INBONE® HANDLE DOME STRIKER
IB200031	INBONE® DOME STRIKE TIP SULCUS
500036	1.4MM K-WIRE
18770140	ORTHOLOC® PIN PULLER
200427	INBONE® PIN CUTTER 3.2
44180025	7.0 MUC HANDLE QUICK CONNECT
IB220901	INBONE® TRIAL TAL DOME #1 SULC
IB220902	INBONE® TRIAL TAL DOME #2 SULC
IB220903	INBONE® TRIAL TAL DOME #3 SULC
IB220904	INBONE® TRIAL TAL DOME #4 SULC
IB220905	INBONE® TRIAL TAL DOME #5 SULC
200432010	INBONE® TALAR REAMER, 10 MM
200432014	INBONE® TALAR REAMER, 14 MM
IB200060	INBONE® SEAT BLOCK TALAR STEM
IB200010	INBONE® TALAR DOME TRIAL HANDLE
200364003	INBONE® HOLDING, TOOL, M4
33600200	PROPHECY® CONVERSION INSTRUMENT

# Implant Specifications



## INFINITY® Tibial Component

SIZE	A	B	C
1	26	34	5
2	26	38	5
3	28	38	5
3 Long	28	41	5
4	31	41	5
4 Long	31	44	5
5	34	44	5
5 Long	34	48	5



## INFINITY® Talar Component

SIZE	A	B	C	D
1	30	31	5	10
2	32	34	5	10
3	34	36	5	10
4	36	39	6	11
5	38	42	7	12

## Ordering Information



**INFINITY® Tibial Component**

Part #	Description
33650001	TIBIAL TRAY SZ1 STD
33650002	TIBIAL TRAY SZ2 STD
33650003	TIBIAL TRAY SZ3 STD
33650004	TIBIAL TRAY SZ4 STD
33650005	TIBIAL TRAY SZ5 STD
33650013	TIBIAL TRAY SZ3 LONG
33650014	TIBIAL TRAY SZ4 LONG
33650015	TIBIAL TRAY SZ5 LONG



**INFINITY® Talar Component**

Part #	Description
33630021	TALAR DOME SZ 1
33630022	TALAR DOME SZ 2
33630023	TALAR DOME SZ 3
33630024	TALAR DOME SZ 4
33630025	TALAR DOME SZ 5



**INBONE® II Talar Component**

Part #	Description
220220901	TALAR DOME SZ 1 SULCUS
220220902	TALAR DOME SZ 2 SULCUS
220220903	TALAR DOME SZ 3 SULCUS
220220904	TALAR DOME SZ 4 SULCUS
220220905	TALAR DOME SZ 5 SULCUS



**INBONE® II Talar Stem**

Part #	Description
200347901	TALAR STEM 10MM
200347902	TALAR STEM 14MM

## INFINITY® Poly Insert



Part #	Description
33651106	POLY INSERT, SZ1/1+ 6MM
33651108	POLY INSERT, SZ1/1+ 8MM
33651110	POLY INSERT, SZ1/1+ 10MM
33651112	POLY INSERT, SZ1/1+ 12MM
33652206	POLY INSERT, SZ2 6MM
33652208	POLY INSERT, SZ2 8MM
33652210	POLY INSERT, SZ2 10MM
33652212	POLY INSERT, SZ2 12MM
33653206	POLY INSERT, SZ2+ 6MM
33653208	POLY INSERT, SZ2+ 8MM
33653210	POLY INSERT, SZ2+ 10MM
33653212	POLY INSERT, SZ2+ 12MM
33653306	POLY INSERT, SZ3 6MM
33653308	POLY INSERT, SZ3 8MM
33653310	POLY INSERT, SZ3 10MM
33653312	POLY INSERT, SZ3 12MM
33654307	POLY INSERT, SZ3+ 7MM
33654309	POLY INSERT, SZ3+ 9MM
33654311	POLY INSERT, SZ3+ 11MM
33654313	POLY INSERT, SZ3+ 13MM
33654406	POLY INSERT, SZ4 6MM
33654408	POLY INSERT, SZ4 8MM
33654410	POLY INSERT, SZ4 10MM
33654412	POLY INSERT, SZ4 12MM
33655407	POLY INSERT, SZ4+ 7MM
33655409	POLY INSERT, SZ4+ 9MM
33655411	POLY INSERT, SZ4+ 11MM
33655413	POLY INSERT, SZ4+ 13MM
33655506	POLY INSERT, SZ5 6MM
33655508	POLY INSERT, SZ5 8MM
33655510	POLY INSERT, SZ5 10MM
33655512	POLY INSERT, SZ5 12MM



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