



SURGICAL TECHNIQUE



INFINITY[™] with ADAPTIS[™] Technology

SURGICAL TECHNIQUE

SURGEON DESIGN TEAM

The INFINITY with ADAPTIS Technology Total Ankle System was developed in conjunction with:

Robert B. Anderson, MD OrthoCarolina Charlotte, NC

Gregory C. Berlet, MD Orthopedic Foot and Ankle Center Columbus, OH

W. Hodges Davis, MD OrthoCarolina Charlotte, NC

Steven L. Haddad, MD Illinois Bone and Joint Institute Chicago, IL

William C. McGarvey, MD Houston Orthopedic and Spine Hospital Houston, TX

Murray J. Penner, MD FRCSC Providence Health Care Vancouver, BC

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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: wright.com, under the link for Prescribing Information.

Please contact your local Wright representative for product availability.



General 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.

The INFINITY with ADAPTIS Technology Tibia Tray and Talar Dome are manufactured using an improved process known as Direct Metal Laser Sintering (DMLS). DMLS, also known as ADAPTIS 3D printing, produces a porous metal surface made from Ti6Al4V (Tibia Tray) and CoCr (Talar Dome), respectively, to interface with the bone.

The INFINITY with ADAPTIS Technology modular articular inserts are manufactured from EVERLAST™ Highly Crosslinked Polyethylene blended with Vitamin E. The propriety manufacturing process has been optimized to develop an enhanced ankle insert with retained material strength¹, reduced oxidation potential², and improved wear resistence³. They are available in 8 sizes, with 4 thicknesses per size.

 $^{{\}it 1. As compared to re-melted HXLPE.}\\$

^{2.} As compared to annealed below-the-melt HXLPE or gamma-sterilized UHMWPE.

^{3.} As compared to UHMWPE.

The INFINITY with ADAPTIS Technology Total Ankle System is intended to give a patient limited mobility by reducing pain, restoring alignment and replacing the flexion and extension movement in the ankle joint.

Indications

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

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

CAUTION: In the United States, the ankle prosthesis is intended for cemented use only.

Contraindications

Contraindications include:

- 1. Osteomyelitis;
- 2. Insufficient bone stock or bone quality;
- 3. Infection at the ankle site or infections at distant sites that could migrate to the ankle:
- 4. Sepsis:
- 5. Vascular deficiency in the ankle joint;
- 6. Skeletally immature patients (patient is less than 21 years of age at the time of surgery);
- 7. Cases where there is inadequate neuromuscular status (e.g., prior paralysis, fusion and/or inadequate abductor strength), poor skin coverage around the joint which would make the procedure unjustifiable;
- 8. Neuropathic joints;
- 9. Excessive loads as caused by activity or patient weight;
- 10. Patient pregnancy;
- 11. Severely compromised musculature or neuromuscular function.
- 12. Uncooperative patient or patient with neurologic disorders, incapable of following instructions

WARNING: This device is not intended for subtalar joint fusion or subtalar joint impingement. Please carefully evaluate the anatomy of each patient before implantation. High levels of activity may increase the risk of adverse events. Surgeons should carefully consider the advisability of ankle replacement in patients with metabolic disorders or pharmacological treatments that impair bone formation or with conditions that may impede wound healing (e.g., end stage diabetes 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.

Preoperative Planning

chapter ()

Preoperative assessment of the appropriate size and position of the tibial and talar components will provide intraoperative guidance for component selection.

Radiographic overlays for the INFINITY with ADAPTIS Technology Total Ankle System are available in 0% and 10% magnification, and represent both the AP and Lateral profile of the prosthesis.

CAUTION: Preoperative templating is intended for estimation purposes only. Final component size and position should be determined intraoperatively through direct visualization under fluoroscopic assistance.

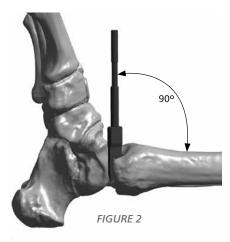
Surgical Approach

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.

Insert the Medial Gutter Fork (33600009 or 33600010) into medial gutter of the ankle joint, roughly perpendicular to the axis of the tibia. Ensure it is placed deep into the medial gutter, as this will establish the ultimate axial rotation of the prosthesis. **FIGURE 1 and 2**



FIGURE 1





Medial Gutter Fork Small: 33600009

Large: 33600010



Set Axial Rotation

Assemble the Rotation Guide Pointer (33600011) and the Rotation Guide Slide (33600012) and install over the end of the Medial Gutter Fork. FIGURE 3 Slide the Rotation Guide Pointer medial/lateral to reach the approximate center of the tibia. Rotate the Rotation Guide Slide about the gutter fork until the Pointer is aligned approximately to the mechanical axis of the tibia.



FIGURE 3

Install a 3.2mm Pin (33610001) through the hole in the Rotation Guide Pointer and through both cortices. **FIGURE 4** Then remove the Pointer, Slider, and Gutter Fork. **FIGURE 5**



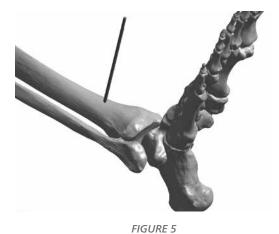
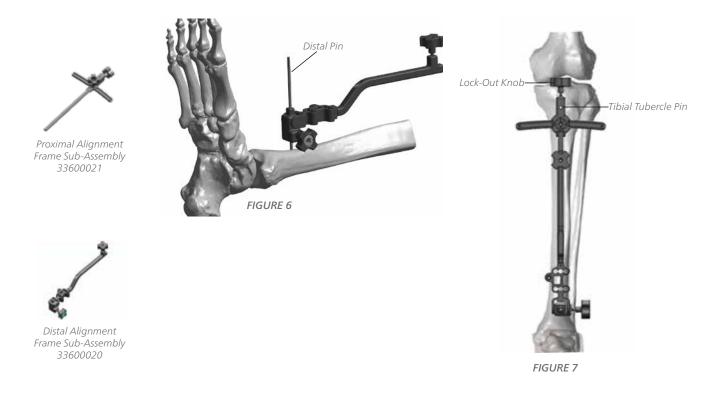


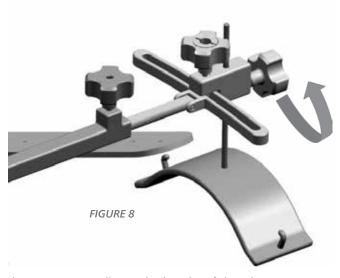
FIGURE 4

Attach Alignment Frame

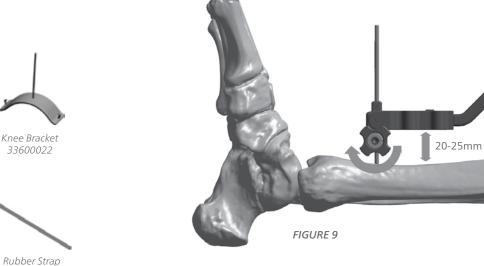
Assemble the Alignment Frame by sliding the end of the Proximal Alignment Frame Sub-Assembly (33600021) into the Distal Alignment Frame Sub-Assembly (33600020). Slide the Alignment Frame over the distal pin **FIGURE 6** and align the proximal end to the proximal tibia. Install a 3.2mm Pin percutaneously through the proximal hole of the Alignment Frame into the tibial tuberosity. Turn the most proximal knob to loosely lock the frame to the pin. **FIGURE 7**



As an alternative to placing a pin in the proximal tibia, the Knee Bracket (33600022) and Rubber Strap (200430) can be used. For this method, first slide the Knee Bracket post into the proximal hole of the Alignment Frame. FIGURE 8 Then position the Knee Bracket over the proximal end of the tibia and secure in place using the Rubber Strap.



In order to provisionally set the height of the Alignment Frame upon the distal pin, place two fingers between the distal portion of the frame and the distal tibial crest (approximately 20 to 25mm). Then lock the most distal knob. FIGURE 9

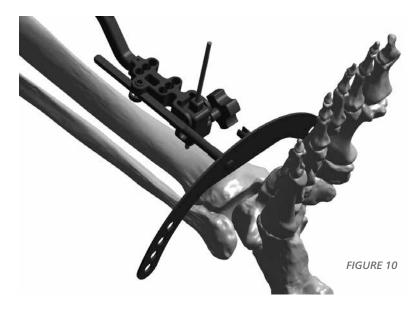




200430

Coronal Plane (Varus/Valgus) Alignment

Attach the Alignment Wing Guide (33600023) onto the Alignment Frame and secure with the Hex Driver (E5001005) and set screw. **FIGURES 10** and 11 Loosen the set screw to allow proximal/distal adjustment of the Alignment Wing.







CAUTION: It is important to ensure the arm of the alignment wing is assembled flush to the alignment frame FIGURES 11 and 12

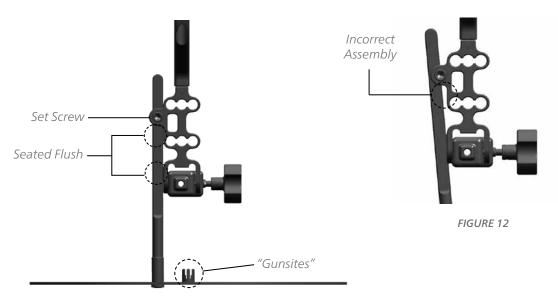
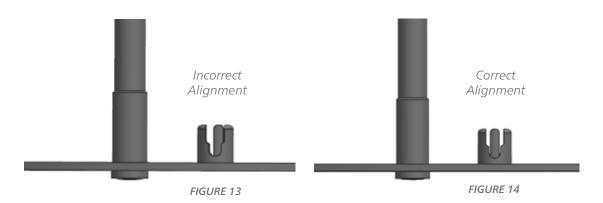


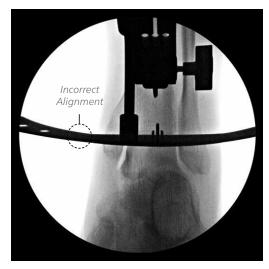
FIGURE 11

There are two separate parallax cues for establishing a true fluoroscopic view in the coronal plane.

1. A set of "gun sites" are located on the alignment wing. **FIGURES**13 and 14 To get these lined up correctly, make very small "rainbow" or orbital adjustments with the c-arm. Alternatively the surgeon can internally/externally rotate the leg.



2. The width of the Alignment Wing should appear as a thin uniform line **FIGURE 16** If it does not **FIGURE 15** slightly "tilt" the c-arm to adjust. Alternatively the surgeon can raise/lower the foot.





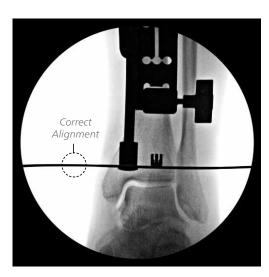
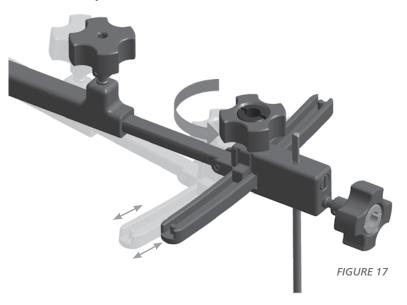
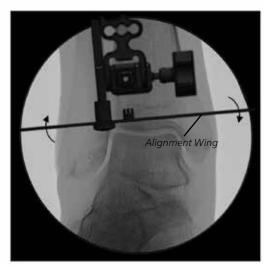


FIGURE 16

The Alignment Frame can now be adjusted to establish coronal rotation (varus/valgus). Loosen the grey color-coded knob at the proximal end of the Alignment Frame to adjust coronal rotation. **FIGURE 17** Tighten knob when adjustment is set.



Under A/P fluoroscopy use the position of the Alignment Wing to establish desired coronal alignment. **FIGURE 18 and 19**





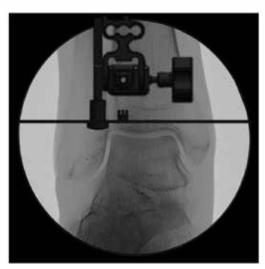


FIGURE 19



Alternately, for a coronal fluoroscopic rotational reference, the surgeon can attach the Coronal Alignment Rod (33600027) to the Alignment Wing. Attach by sliding the base of the rod over the wing, with the rod pointing proximally. Thread down the rod to clamp down on the wing.

Typically, the distal tibial resection is set perpendicular to the mechanical axis of the tibia in the coronal plane (i.e. varus/valgus alignment). In many cases, the mechanical axis and the distal tibial anatomic axis are near parallel, and the tibial plafond is perpendicular to these axes. In these cases, the long axis of the external Alignment Frame may be aligned to the mechanical or anatomic axis by placing the Alignment Wing parallel to the distal tibial plafond. **FIGURE 20**



FIGURE 20

In situations where the distal tibial anatomic axis is not parallel to the mechanical axis FIGURE 21, or the tibial plafond is not perpendicular to the mechanical axis, coronal plane alignment is typically achieved by aligning the external alignment frame to the mechanical axis by visualizing the position of the frame relative to the full length of the tibia with the c-arm. FIGURE 22

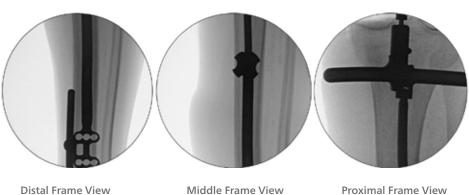


FIGURE 22



Tibia Mechanical Axis
Tibia Anatomic Axis

FIGURE 21

It is important to realize that parallax from the image intensifier may distort the perceived position of the alignment rod. The surgeon must be cognizant of this. As such, the surgeon must study the preoperative radiographs to determine the appropriate coronal plane alignment, determining the varus/valgus alignment of the Alignment Wing with reference to the tibial plafond based on these radiographs. Views of the entire tibia, or entire limb (hip/knee/ankle), may be necessary to determine this alignment. Using this information, the blade may NOT be parallel to the tibial plafond, and the surgeon may resect more bone medially or laterally with the joint depending on the deformity encountered.

Set Sagittal Plane (Flexion/Extension) Alignment

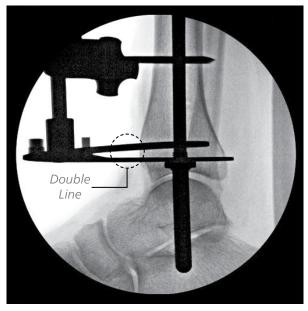
Assemble the Alignment Rod (33600024) into one of the four holes in either side of the Alignment Wing. **FIGURE 23** Choose a hole that will allow visualization of both the Rod and the tibia in the sagittal plane.





FIGURE 23

To establish a true lateral fluoroscopic view, adjust the c-arm until the Alignment Wing appears as one solid thin line. If there is appearance of a double line, **FIGURE 24**, adjust the position of the leg or c-arm until the two lines become one. **FIGURE 25**



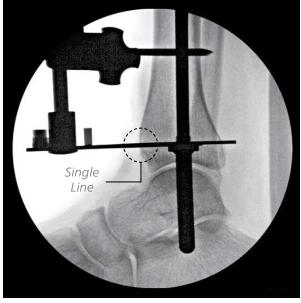
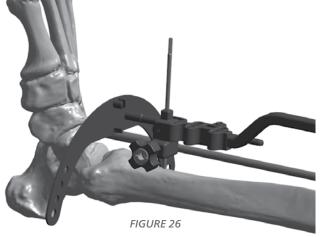
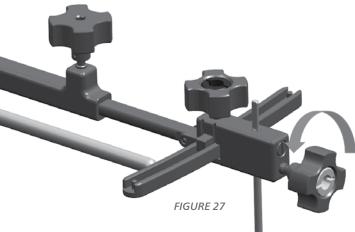


FIGURE 24

FIGURE 25

To adjust the flexion angle of the prosthesis with respect to the distal tibia, loosen either of the two aqua color-coded knobs. Knobs are located on both the proximal and distal end of the frame. FIGURES 26 and 27



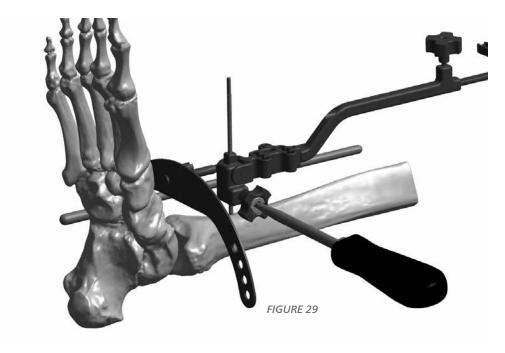


Under lateral fluoroscopy use the position of the Alignment Rod to establish desired sagittal rotation. Typically, this is parallel to the anterior cortex of the tibial shaft. **FIGURE 28** However, as with coronal plane alignment, study the preoperative radiographs to determine the appropriate alignment. Full length tibia radiographs, or hip/knee/ankle radiographs, may be necessary to assist in this assessment.



FIGURE 28

After adjustments are set, use the Hex Driver to lock both proximal and distal (aqua-colored) adjustment knobs by securely tightening them. **FIGURE 29**



Chapter 4 Surgical Technique

Install Sizing and Resection Guide Adjustment Block

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 30**

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 31**

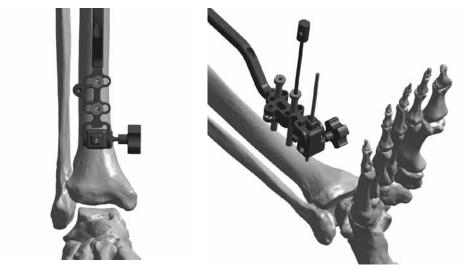


FIGURE 30

FIGURE 31

Install a 3.2mm Pin into each Pin Sleeve and through both cortices of the tibia. FIGURE 32 Remove both Pin Sleeves, loosen the two aqua colored knobs, and remove the Alignment Frame. Remove the proximal tibial pin (or Knee Bracket), as well as the most distal tibial pin, leaving the two parallel pins in place. FIGURE 33





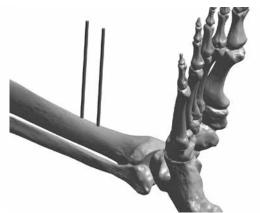
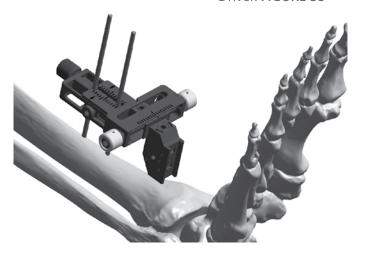


FIGURE 32

FIGURE 33

Coronal Plane Sizing and Positioning

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 34** 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 35**



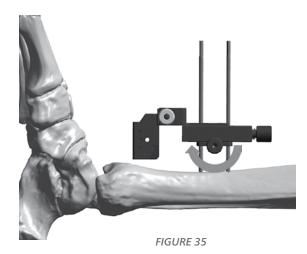


FIGURE 34





Coronal Sizing Guide 33620032 - 33620035

Connect the Coronal Sizing Guide (33620032 – 33620035) 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 1mm of clearance between the Guide and the tibial plafond. Lock into place with the Hex Driver. FIGURE 36

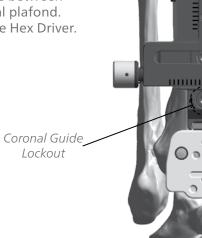


FIGURE 36



Incorrect -"Tilt" c-arm to

adjust



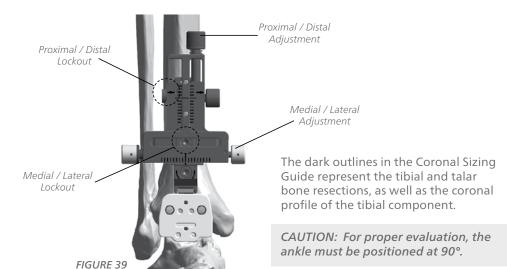
FIGURE 37

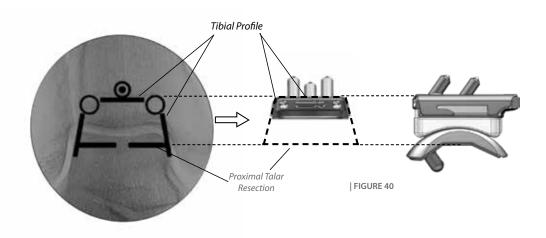
To correct for parallax, the Coronal Adjustment Guide contains a "pin-in-circle" feature. The c-arm should be adjusted so that the pin appears in the center of the circle. **FIGURES 37 and 38**



FIGURE 38

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 both positions. **FIGURE 39**

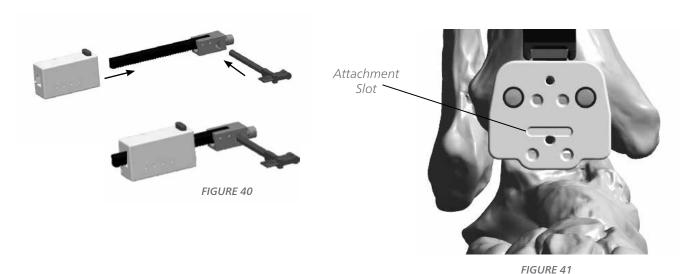




Chapter 4 Surgical Technique

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 – 33620045) onto the Ratcheting Arm. **FIGURE 40** 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 41**



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 42** 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.



Sagittal Sizing Guide 33620042 - 33620045

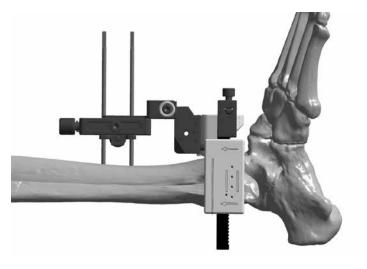


FIGURE 42

To fluoroscopically obtain a true lateral view, ensure that the center row of talar alignment pins appear as true solid circles. **FIGURE 43** These pins must be viewed "end on" to prevent misinterpretation of the fluoroscopic image.

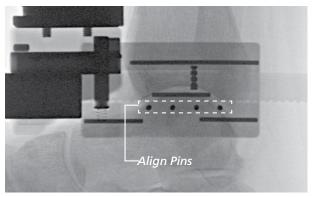
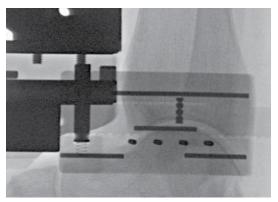
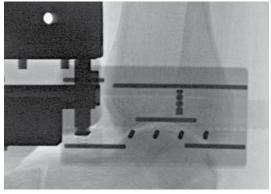


FIGURE 43

Make c-arm adjustments as necessary in order to avoid parallax distortion. **FIGURES 44 and 45**



Rotate or "Rainbow" c-arm to adjust. FIGURE 44



Swing or "Wig-Wag" c-arm to adjust. FIGURE 45

As an additional fluoroscopic check a 2.4 Steinmann Pin can be placed through the center hole of the Coronal Alignment Guide. **FIGURE 46** In a lateral plane fluoroscopic image this pin will indicate the height of the proximal talar resection and in a true lateral view should be inline with the row of alignment pins in the Sagittal Guide. **FIGURE 47**



FIGURE 46

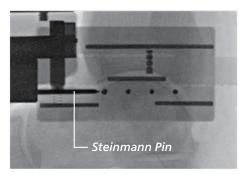
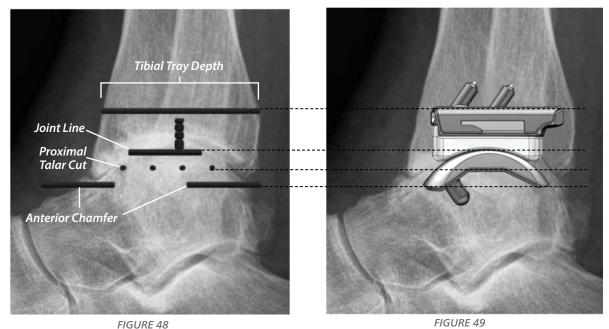


FIGURE 47

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 contains fluoroscopic indicators that correspond to the tibial resection, joint line (top of the talar dome), height of the proximal talar resection, and the distal extent of the anterior chamfer. The Sizing Guide also has an indicator for the anterior to posterior dimension of the tibial implant.

Turn the purple knob of the Adjustment Block to achieve the desired resection height. Position the guide so the proximal edge of the "joint line" pin aligns to the proximal extent of the talar bone or the desired location of the reconstructed joint line. **FIGURES 48 and 49**



TL 40

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

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

Multiple component sizes can be evaluated by replacing both corresponding Coronal and Sagittal Sizing Guides.

Note that the distal extent of the anterior chamfer also corresponds to the flat cut surface of an INFINITY with ADAPTIS Technology Flat Cut talar dome. **FIGURES 50 and 51**

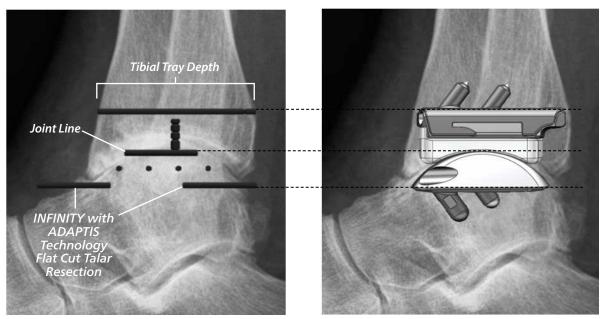
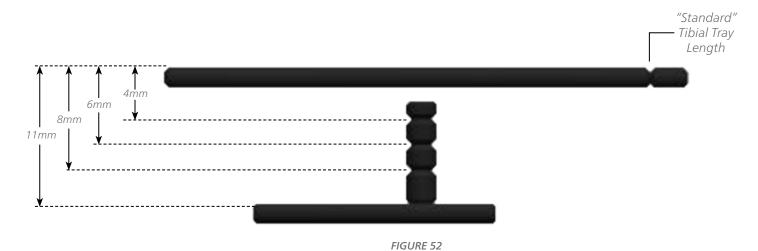


FIGURE 50 FIGURE 51

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 52**



Chapter 4 Surgical Technique

Drill Tibial Corners

For steps on how to utilize an INFINITY with ADAPTIS Technology Flat Cut Talar Dome instead of the standard chamfer-cut INFINITY with ADAPTIS Technology Talar Dome refer to Appendix A.

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 53** 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 54**

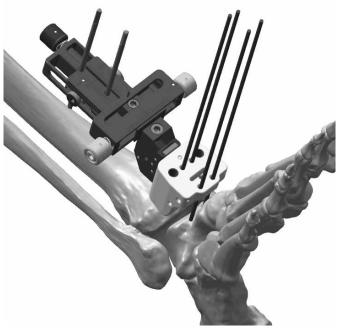




FIGURE 53



Bone Resection

Remove the Coronal Sizing Guide and slide the appropriately sized Resection Guide (33620052 – 33620055) over the 2.4mm Pins and into the Adjustment Block. **FIGURE 55** Secure with Hex Driver.

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 56**

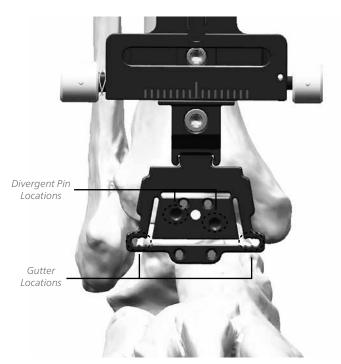




FIGURE 55

FIGURE 56



Resection Guide 33620052 – 33620055



Optionally, for additional stability, install a 2.4mm Pin through one of the two divergent pin locations. | FIGURE 56 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 appropriately sized Saw Blade and oscillating bone saw make the tibial and talar bone resections. This includes cutting though the proximal, distal, medial and lateral slots of the Resection Guide.

Remove the divergent Steinmann Pin then remove the Resection Guide, Adjustment Block 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.

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 57** 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.







Remove Tibial Bone Resection

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 58**



FIGURE 58





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 59 and 60**

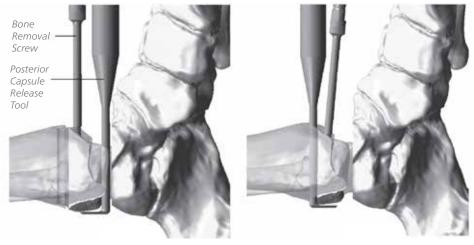


FIGURE 59 FIGURE 60

Tibial Tray Trialing and AP Sizing

Remove Tibial Bone Resection. 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 61



FIGURE 61

Place the appropriately sized Tibial Tray Trial (33620062 - 33620065) into the resected joint space and seat flush against the resected tibia. Padded Self-Retaining Laminar Spreaders (33609012) can be inserted between the Trial and the talus to ensure the Trial is seated flush. **FIGURE 62** Also ensure the Tibial Trial is fully seated against the anterior cortex of the tibia **FIGURE 63** and secure in place using two 2.4mm Steinmann Pins. **FIGURE 64**



FIGURE 62

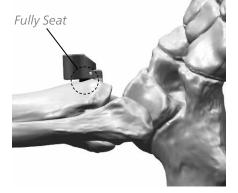


FIGURE 63



FIGURE 64



Self-Retaining Laminar Spreaders 33609012

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.

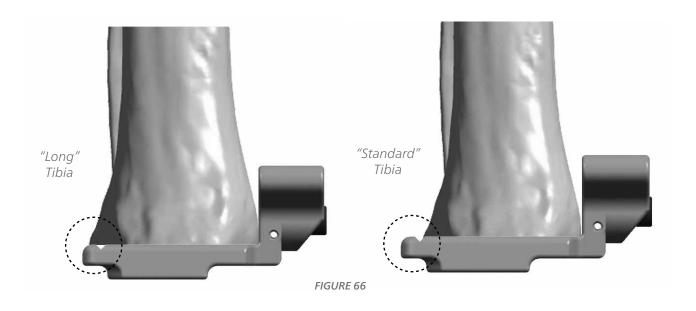
The Tibial Trial allows the surgeon to determine both the optimal AP tibial coverage and positioning through fluoroscopic evaluation **FIGURE 65**

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 66**

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 65



The surgeon also has the option to anteriorly translate the Tibial Trial (maximum of 3mm) in order to minimize posterior overhang if desired. **FIGURE 67** To adjust, insert the Hex Driver into the front of the Tibial Trial and turn clockwise. **FIGURES 68 and 69**

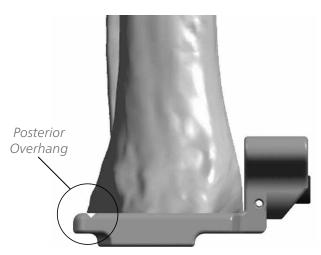
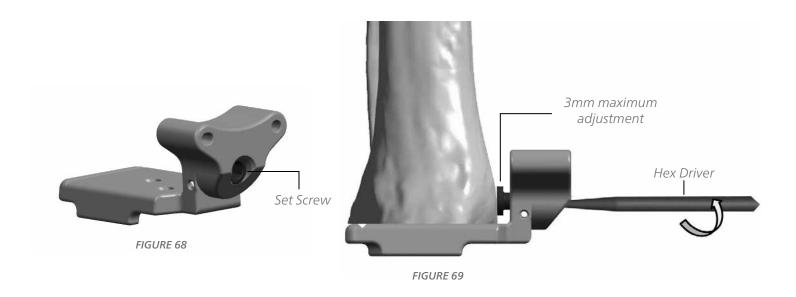


FIGURE 67



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 70** Temporarily leave the Posterior Broach in place while the two anterior holes are prepared.



FIGURE 70

Using the Anterior Tibial Peg Broach (33600067), prepare the two anterior holes through the Trial. **FIGURE 71**



FIGURE 71

After all three holes are prepared, remove both Broaches and leave the Tibial Tray Trial in place. **FIGURE 72**

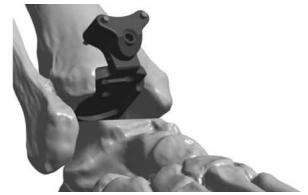


FIGURE 72





Talar Component Sizing and Positioning

Place the appropriately sized Talar Dome Trial (33600071 – 33600075) into the joint space. Using the Poly Insert Trial Holding Tool (IB200110), install the appropriately sized Poly Insert Trial (33621106 – 33625512) into the Tibial Tray Trial. The locking tab of the Poly Insert Trial should engage the Tibial Tray Trial. FIGURE 73



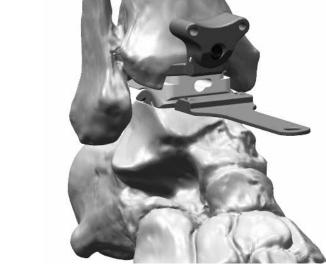


FIGURE 73



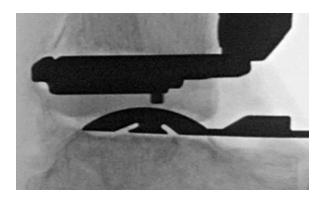


The surgeon has two options for the Talar Dome implant size at this juncture: either the matching size for the implanted Tibial Tray, or one size smaller. It is beneficial to assess both sizes under A/P and lateral fluoroscopic images. Please note that the A/P image is critical for sizing the talar component, 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.



For steps on how to make a 2mm talar re-cut refer to Appendix B.

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 74 and 75**



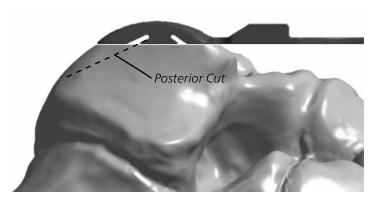


FIGURE 74 FIGURE 75

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 76**

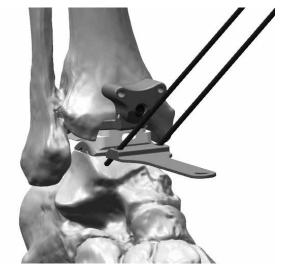


FIGURE 76

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 77** The two 2.4mm tibial pins may now be removed as well.

Slide the Talar Resection Guide Base (33600091 – 33600095) onto the two 2.4mm pins in the talus and seat flush to the resected talar surface. **FIGURE 78**

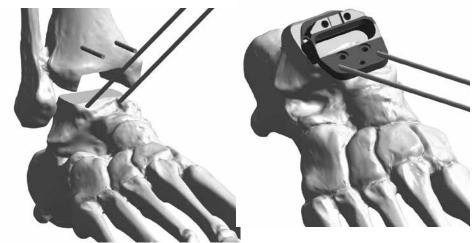


FIGURE 77 FIGURE 78

Using the T-Handle Pin Driver (33600120), or power drill install two Temporary Fixation Screws (33610002 or 33610003) through the Talar Resection Guide Base into the talus. **FIGURE 79**

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.



Talar Resection Guide Base 33600091 - 33600095



1-Handle Pin Driver 33600120





FIGURE 79

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 80**



FIGURE 80

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 81**

NOTE: Careful attention should be paid to not allow the saw blade to skive due to bone curvature or sclerotic bone posteriorly. A clean-up pass with the saw will help ensure the bone is adequately resected.



FIGURE 81

Assemble the Anterior Talar Pilot Guide (33600101 – 33600105) with pegs facing down onto the anterior face of the Talar Resection Guide Base. **FIGURE 82**

Use the appropriately sized Talar Reamer (33600123 or 33600126) to plunge cut through all four holes of the Pilot Guide. **FIGURE 80** This will prepare the talar surface for the anterior flat of the talar component.

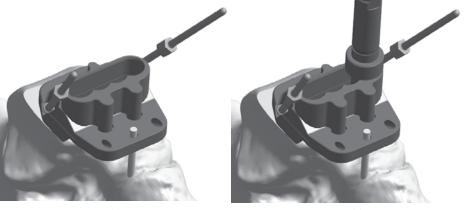


FIGURE 82 FIGURE 83

Remove the Pilot Guide and replace with the Anterior Talar Finish Guide (33600111 – 33600115). **FIGURE 84**

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 85** 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.

CAUTION: Take care not to rock or dislodge the Pilot/Finishing Guide and Guide Base during reaming.



Anterior Talar Pilot Guide 33600101 - 33600105



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



Anterior Talar Finish Guide 33600111 - 33600115



FIGURE 84



FIGURE 85

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 86**

Again use the Talar Reamer to plunge cut through all four holes of the Pilot Guide. **FIGURE 87** This will prepare the talar surface for the anterior chamfer of the talar component.

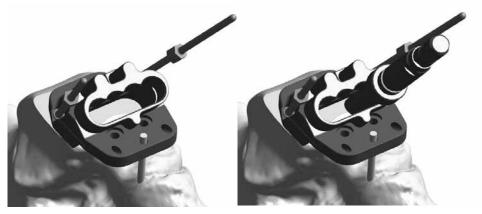


FIGURE 86 FIGURE 87

Remove the Pilot Guide and assemble the Finish Guide to complete the preparation of the anterior chamfer. **FIGURE 88**

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 89**

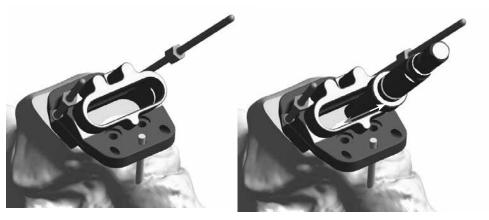


FIGURE 88 FIGURE 89

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 90**

NOTE: Due to the angle of the cut, it may be necessary to finish the posterior chamfer with a reciprocating saw following removal of the Talar Resection Guide Base. Careful attention must be paid to ensure the full posterior chamfer was made. In cases where sclerotic bone caused the saw blade to skive and undercut, a manual "feathering" recut should be performed.

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



FIGURE 90

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 overtensioning. 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 – 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 91**



FIGURE 91

Slightly plantarflex the foot and install a 2.4mm Steinmann Pin through the Talar Peg Drill Guide to temporarily hold it in position. **FIGURE 92**

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 93**



Talar Peg Drill Guide 33600161 - 33600165



Anterior Peg Drill IB200020



FIGURE 92



FIGURE 93

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 94

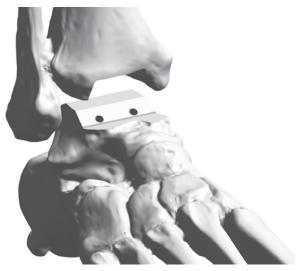


FIGURE 94

Choose the appropriately sized Tibial Tray Impaction Insert (33620132 – 33620135) and assemble the Tibial Tray component by sliding over the dovetail opening and threading the two screws into the threaded holes in the anterior face of the Tibial Tray. **FIGURE 95**



FIGURE 95

Please note that older versions of Tibial Tray Impaction Inserts do not have the threaded attachments to the Tibial Tray component, but rather a small locking tab to provisionally hold it in place.

If choosing to cement, 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: In the United States, the ankle prosthesis is intended for cement use only.



Tibial Tray Impaction Insert 33620132 - 33620135

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 96** and 97

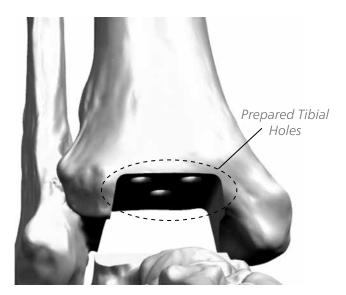


FIGURE 96

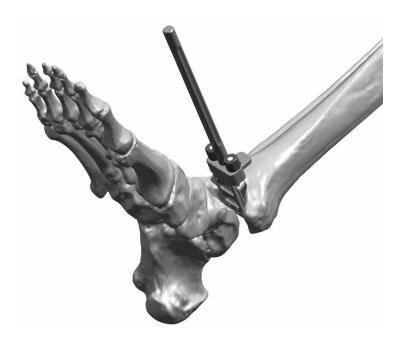
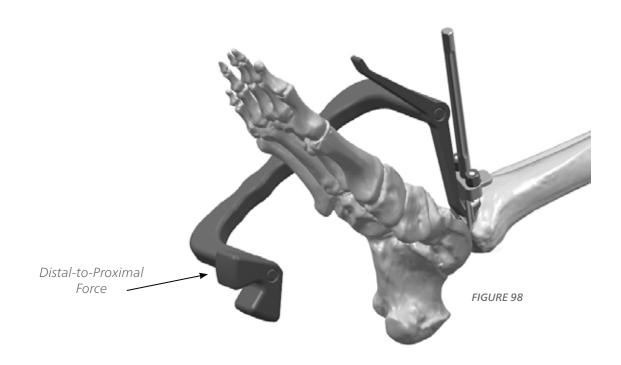


FIGURE 97



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 98**





Offset Tibial Tray Impactor 33600140



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.

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 – 33620155) into the Tibial Tray to protect the Talar Dome surface during installation. **FIGURE 99**



FIGURE 99

If choosing to cement, apply bone cement to the bottom surface of the Talar Dome.

CAUTION: In the United States, the ankle prosthesis is intended for cement use only.

Start insertion of the Talar Dome component into the joint space 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 100** 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.

NOTE: The Talar Dome component is designed with an anterior gap. Prior to impaction, ensure that the prosthesis is placed posteriorly enough to seat properly.

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



FIGURE 100

Tibial Tray Protector 33620152 - 33620155



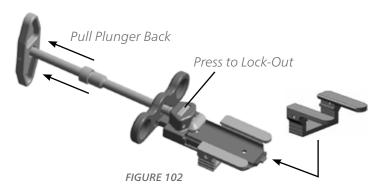
Polyethylene Bearing Installation

Install two Attachment Screws (33600190) into the anterior face of the Tibial Tray. **FIGURE 101**



FIGURE 101

Assemble the Poly Insert Guide Rail (33600172 – 33600175) onto the Poly Inserter (33600170) and ensure that the plunger handle is pulled back completely and locked in the start position. **FIGURE 102**



Slide the dovetail feature of the Poly Insert Implant into the Poly Insert Guide Rail, ensuring correct A/P orientation of the component. **FIGURE 103**









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 104**



FIGURE 104

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 ensure that the polyethylene will seat completely within the tibial tray lock detail.



To begin Poly insertion, unlock the plunger and push it forward until it comes into contact with the Poly Inserter housing. **FIGURES 105 and 106**

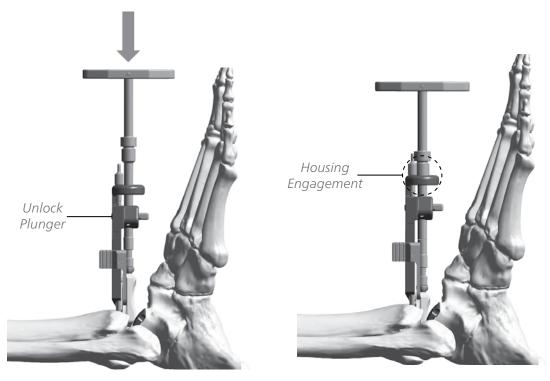


FIGURE 105 FIGURE 106

Once it contacts the housing, the plunger can be turned (clock-wise) to continue advancing the Poly Insert into the Tibial Tray. **FIGURE 107**

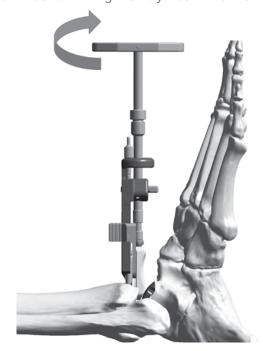


FIGURE 107

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 108**



FIGURE 108

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. Close the wound and cast foot in slight plantar flexion.

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.

INFINITY with ADAPTIS Technology Flat Cut Talar Dome

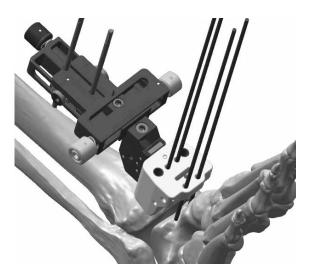
If the surgeon chooses to use an INFINITY with ADAPTIS Technology Flat Cut Talar Dome instead of a standard chamfer-cut INFINITY with ADAPTIS Technology Talar Dome this is possible due to the identical articulation geometry of the two systems. Follow these steps after the Coronal Sizing Guide is properly positioned (page 21).

Bone Resection

Ensure that all Adjustment Block positions are locked out with the Hex Driver and place four 2.4mm Steinmann Pins (200072) into the Coronal Sizing Guide. **FIGURE 109** 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 110**



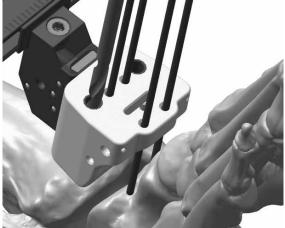


FIGURE 109

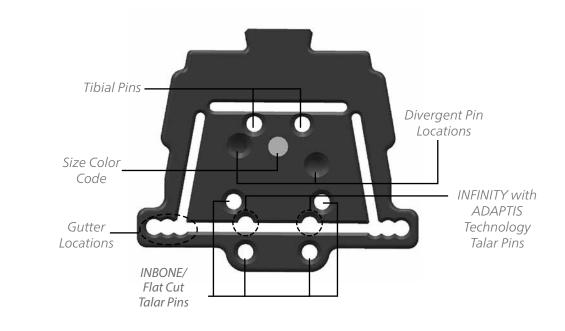
FIGURE 110

Remove the Coronal Sizing Guide and slide the appropriately sized Flat Cut Resection Guide (33620252 - 33620255) over the four 2.4mm Pins and secure into the Adjustment Block using the Hex Driver. **FIGURE 111** Next, install two 2.4mm Pins through the INBONE/INFINITY with ADAPTIS Technology Flat Cut talar hole locations (proximal to the slot) and into the talus. **FIGURE 112**

Alternately, the two pin holes distal to the slot can be used if they are accessible and provide better bone purchase.



FIGURE 111 FIGURE 112





Flat Cut Resection Guide 33620252 – 33620255

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 113**



FIGURE 113

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 114** 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.

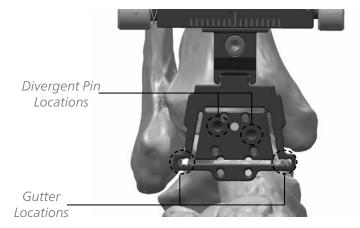


FIGURE 114

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).

Bone Removal & Tibial Preparation

Refer to pages 26 - 31 for instructions on bone removal and tibia preparation for the INFINITY with ADAPTIS Technology Tibial Tray.

Implanting Tibial Tray

Refer to pages 40 - 42 for instructions on the implantation of the INFINITY with ADAPTIS Technology Tibial Tray.

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 Trial Holding Tool (IB200110) install the appropriately sized Poly Insert Trial (33621106 – 33625512) into the Tibial Tray. **FIGURE 115** The locking tab of the Poly Insert Trial should engage the Tibial Tray.

Assemble the appropriately sized Flat Cut Talar Dome Trial (33680071 - 33680075) and Talar Dome Holding Tool (IB200010) and introduce the Dome Trial into the joint space. **FIGURE 116**

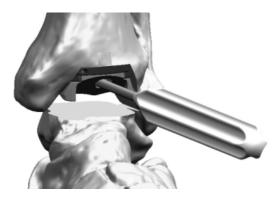


FIGURE 115

FIGURE 116



Poly Trial Holding Tool IB200110



Poly Insert Trial 33621106 - 33625512



Dome Trial Holding Tool IB200010

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 117 and 118**



FIGURE 117



FIGURE 118

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 119**

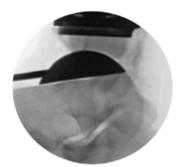


FIGURE 119

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.

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 120**

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.

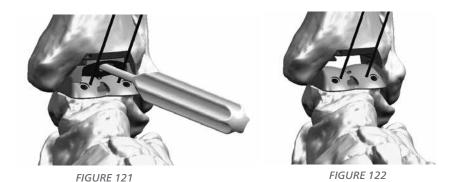


FIGURE 120

Talar Preparation

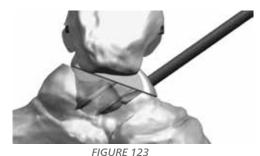
Use the Poly Insert Trial Holding Tool to remove the Poly Insert Trial. The foot may be plantarflexed to aid in removal of Poly Insert Trial. **FIGURES 121 and 122**

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.



Using the 4mm Anterior Peg Drill (IB200020), drill a hole through the medial

and lateral anterior peg Drill (IB200020), drill a hole through the medial and lateral anterior openings and the central posterior opening in the Flat Cut 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 123



TIGUNL 125



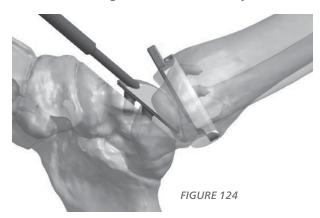
Remove 1.4mm Pins and Flat Cut Talar Dome Trial.

Install Talar Dome

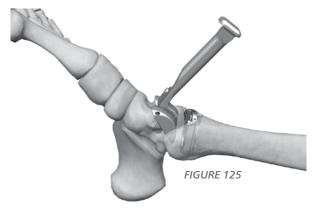
Place the foot in plantar flexion and insert the Tibial Tray Protector (33620152 - 33620155) into the Tibial Tray to protect the Talar Dome surface during installation. If choosing to cement, apply bone cement to the bottom surface of the Talar Dome.

CAUTION: In the United States, the ankle prosthesis is intended for cement use only.

Thread the M4 Holding Tool (200364003) into either 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 124** Once the Talar Dome is aligned, remove the Tray Protector.



Align the Talar Dome Impactor (IB200030 and IB200031) on the Talar Dome and with a mallet, hit the top of the Impactor to fully seat the Talar Dome. FIGURE 125 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 peg holes slightly with the 4mm drill.



Install Poly Insert

Following final impaction of the Talar Dome, refer to pages 44-48 for instructions on Poly Insert Installation.



Talar Dome Impactor IB200030 Impactor Tip IB200031



Tibial Tray Protector 33620152 - 33620155



Talar Re-Cut Option

After the talar resection is made, the surgeon still has an option to make an additional 2mm talar re-cut. Thread the Insertion Handle (33600130) into the Talar Recut Guide (33609056) and introduce the Guide into the joint space. Make sure the paddle of the Guide is seated flat on the resected talus and install two 2.4mm Steinmann Pins through the Guide into the talus. **FIGURE 126**

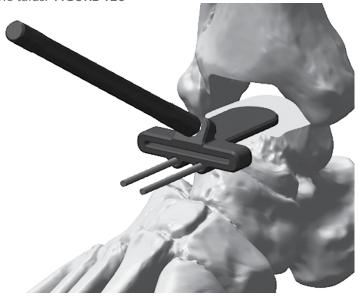


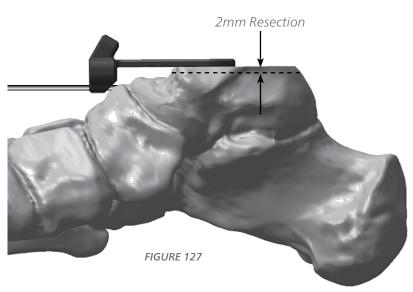
FIGURE 126

Make an additional 2mm talar bone resection through the slot of the Resection Guide. **FIGURE 127**





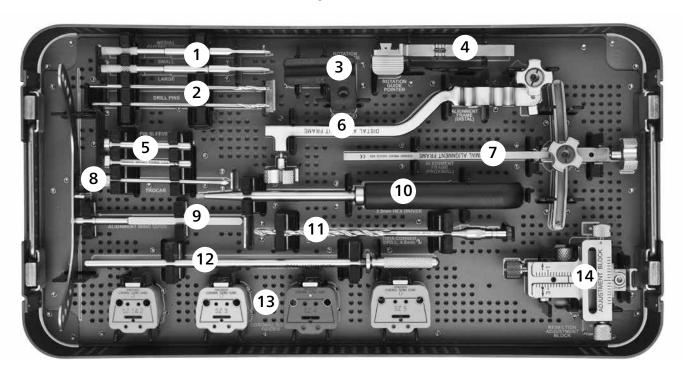
Talar Recut Guide 33609056



Appendix B Talar Re-Cut Option

INFINITY with ADAPTIS Technology Instrumentation

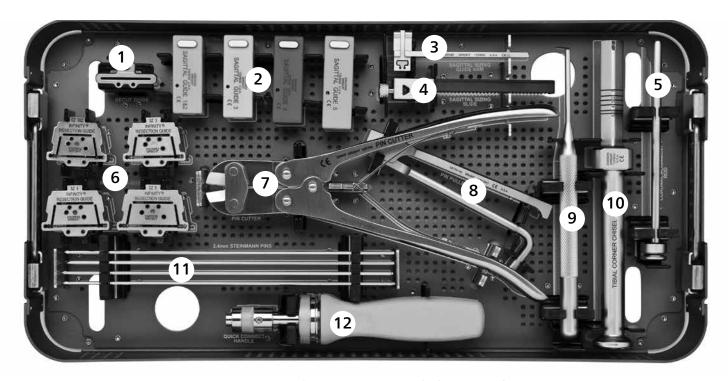
3365KIT1 Case 1, Tray 1



- 1. Medial Gutter Forks (33600009 & 33600010)
- 2. Pins 3.2mm x 102mm (33610001)
- 3. Rotation Guide Slide (33600012)
- 4. Rotation Guide Pointer (33600011)
- 5. Pin Sleeves (33600025)
- 6. Alignment Frame Distal Assembly (33600020)
- 7. Alignment Frame Proximal Assembly (33600021)

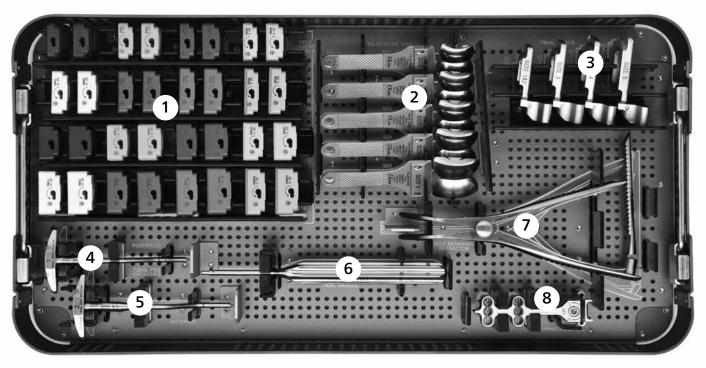
- 8. Trocar (33600026)
- 9. Alignment Wing Guide (33600023)
- 10. 3.5mm Hex Driver (E5001005)
- 11. 4.8mm Tibial Corner Drill (33600048)
- 12. Alignment Rod (33600024)
- 13. Coronal Sizing Guides (33620032 33620035)
- 14. Resection Guide Adjustment Block (33600030)

3365KIT1 Case 1, Tray 2



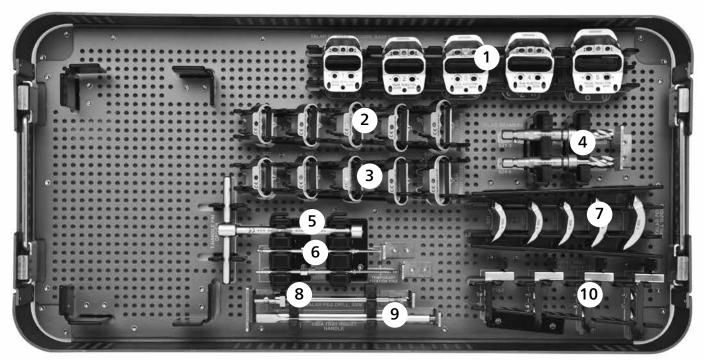
- 1. Talar 2mm Recut Guide (33609056)
- 2. Sagittal Sizing Guides (33620042 33620045)
- 3. Sagittal Sizing Guide Arm (33600040)
- 4. Sagittal Sizing Guide Ratchet Arm (33600068)
- 5. Coronal Alignment Rod (33600027)
- 6. Resection Guides (33620052 33620055)
- 7. Pin Cutter (200427)
- 8. Pin Puller (18770140)
- 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 Retractor (33609012)
- 8. PROPHECY Conversion Guide (33600200)

3365KIT1 Case 2, Tray 2



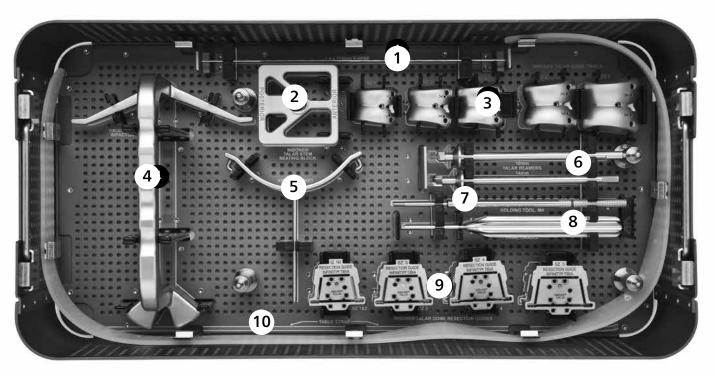
- 1. Talar Resection Guide Bases (33600091 33600095)
- 2. Talar Chamfer Pilot Guides (33600101 33600105)
- 3. Talar Chamfer Finish Guides (33600111 33600115)
- 4. Talar Reamers (33600123 & 33600126)
- 5. T-Handle Pin Driver (33600120)
- 6. Threaded Talar Pins (33610002 & 33610003)
- 7. Talar Peg Drill Guides (33600161 33600165)
- 8. Talar Peg Drill, 4mm (IB200020)
- 9. Tibial Tray Insertion Handle (33600130)
- 10. Tibial Tray Impaction Inserts (33620132 33620135)

Case 2, Caddy 1



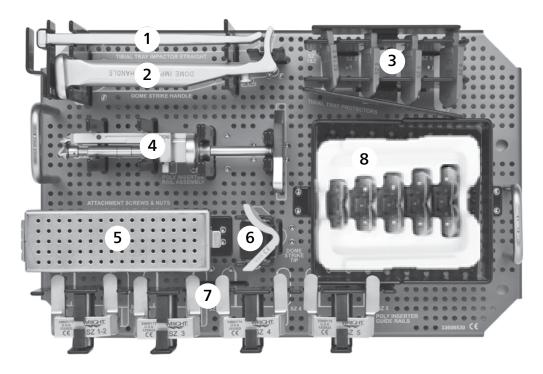
- 1. Tibial Spacer Guides (33600424 33600456)
- 2. Talar Resection Guide (33600400)
- 3. Caddy (33600470)

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 Case 3, Tray 2



- 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)
- 8. INFINITY with ADAPTIS Technology Flat Cut Trials (33680071-33680075)

3365KIT1 - INFINITY with ADAPTIS Technology 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 with ADAPTIS Technology Instrument Kit

Part #	Description
33600130	TIBIAL TRAY INSERT HANDLE
33620132	TIB TRAY IMPACT INSERT, SZ1-2
33620133	TIB TRAY IMPACT INSERT, SZ3
33620134	TIB TRAY IMPACT INSERT, SZ4
33620135	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
33622210	TRIAL POLY INSERT, SZ2 10MM
33622212	TRIAL POLY INSERT, SZ2 12MM
33623206	TRIAL POLY INSERT, SZ2+ 6MM
33623208	TRIAL POLY INSERT, SZ2+ 8MM
33623210	TRIAL POLY INSERT, SZ2+ 10MM
33623212	TRIAL POLY INSERT, SZ2+ 12MM
33623306	TRIAL POLY INSERT, SZ3 6MM
33623308	TRIAL POLY INSERT, SZ3 8MM
33623310	TRIAL POLY INSERT, SZ3 10MM
33623312	TRIAL POLY INSERT, SZ3 12MM
33624307	TRIAL POLY INSERT, SZ3+ 7MM
33624309	TRIAL POLY INSERT, SZ3+ 9MM
33624311	TRIAL POLY INSERT, SZ3+ 11MM
33624313	TRIAL POLY INSERT, SZ3+ 13MM
33624406	TRIAL POLY INSERT, SZ4 6MM
33624408	TRIAL POLY INSERT, SZ4 8MM
33624410	TRIAL POLY INSERT, SZ4 10MM
33624412	TRIAL POLY INSERT, SZ4 12MM
33625407	TRIAL POLY INSERT, SZ4+ 7MM
33625409	TRIAL POLY INSERT, SZ4+ 9MM
33625411	TRIAL POLY INSERT, SZ4+ 11MM
33625413	TRIAL POLY INSERT, SZ4+ 13MM
33625506	TRIAL POLY INSERT, SZ5 6MM
33625508	TRIAL POLY INSERT, SZ5 8MM
33625510	TRIAL POLY INSERT, SZ5 10MM
33625512	TRIAL POLY INSERT, SZ5 12MM

3365KIT1 - INFINITY with ADAPTIS Technology 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	POLY TRIAL HANDLE
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	INBONETALAR REAMER, 10MM
200432014	INBONE TALAR REAMER, 14MM
IB200060	INBONE SEAT BLOCK TALAR STEM
IB200010	INBONE TALAR DOME TRIAL HANDLE
200364003	INBONE HOLDING, TOOL, M4
33600200	PROPHECY CONVERSION INSTRUMENT

Part #	Description
33600400	TALAR RESECTION GUIDE
33600424	TIBIAL SPACER GUIDE, SZ1&2 MINUS
33600426	TIBIAL SPACER GUIDE, SZ1&2 STD
33600434	TIBIAL SPACER GUIDE, SZ3 MINUS
33600436	TIBIAL SPACER GUIDE, SZ3 STD
33600444	TIBIAL SPACER GUIDE, SZ4 MINUS
33600446	TIBIAL SPACER GUIDE, SZ4 STD
33600454	TIBIAL SPACER GUIDE, SZ5 MINUS
33600456	TIBIAL SPACER GUIDE, SZ5 STD
33600470	CADDY, TIBIAL SPACER GUIDE
33680071	FLAT CUT TRIAL, SZ 1
33680072	FLAT CUT TRIAL, SZ 2
33680073	FLAT CUT TRIAL, SZ 3
33680074	FLAT CUT TRIAL, SZ 4
33680075	FLAT CUT TRIAL, SZ 5
33680000	FLAT CUT TRIAL CADDY

Ordering Information



INFINITY with ADAPTIS Technology Tibial Component

Part #	Description
33680001	TIBIAL TRAY SZ 1 STD
33680002	TIBIAL TRAY SZ 2 STD
33680003	TIBIAL TRAY SZ 3 STD
33680004	TIBIAL TRAY SZ 4 STD
33680005	TIBIAL TRAY SZ 5 STD
33680013	TIBIAL TRAY SZ 3LNG
33680014	TIBIAL TRAY SZ 4LNG
33680015	TIBIAL TRAY SZ 5LNG



INFINITY with ADAPTIS Technology Flat Cut Talar Dome

Part #	Description	
33680031	Size #1, Right & Left	
33680032	Size #2, Right & Left	
33680033	Size #3, Right & Left	
33680034	Size #4, Right & Left	
33680035	Size #5, Right & Left	



INFINITY with ADAPTIS Technology Chamfer-Cut Talar Component

Part #	Description
33680021	TALAR DOME SZ 1
33680022	TALAR DOME SZ 2
33680023	TALAR DOME SZ 3
33680024	TALAR DOME SZ 4
33680025	TALAR DOME SZ 5

Accessories

Part #	Description
IB200051	Bone Removal Screw
2001381015	Saw Blade Stryker System 5 Narrow
2001381025	Saw Blade Stryker System 5 Wide
2001381035	Saw Blade Hall/Linvatec Narrow
2001381045	Saw Blade Hall/Linvatec Wide
2001381055	Saw Blade Stryker System 6 Narrow
2001381065	Saw Blade Stryker System 6 Wide
2001381075	Saw Blade Stryker System 7 Narrow
2001381085	Saw Blade Stryker System 7 Wide



INFINITY EVERLAST Poly Insert

Part #	Description
33681106	INFINITY EVERLAST SZ 1/1+ 6MM
33681108	INFINITY EVERLAST SZ 1/1+8MM
33681110	INFINITY EVERLAST SZ 1/1+ 10MM
33681112	INFINITY EVERLAST SZ 1/1+ 12MM
33682206	INFINITY EVERLAST SZ 2 6MM
33682208	INFINITY EVERLAST SZ 2 8MM
33682210	INFINITY EVERLAST SZ 2 10MM
33682212	INFINITY EVERLAST SZ 2 12MM
33683206	INFINITY EVERLAST SZ 2+ 6MM
33683208	INFINITY EVERLAST SZ 2+ 8MM
33683210	INFINITY EVERLAST SZ 2+ 10MM
33683212	INFINITY EVERLAST SZ 2+ 12MM
33683306	INFINITY EVERLAST SZ 3 6MM
33683308	INFINITY EVERLAST SZ 3 8MM
33683310	INFINITY EVERLAST SZ 3 10MM
33683312	INFINITY EVERLAST SZ 3 12MM
33684307	INFINITY EVERLAST SZ 3+ 7MM
33684309	INFINITY EVERLAST SZ 3+ 9MM
33684311	INFINITY EVERLAST SZ 3+ 11MM
33684313	INFINITY EVERLAST SZ 3+ 13MM
33684406	INFINITY EVERLAST SZ 4 6MM
33684408	INFINITY EVERLAST SZ 4 8MM
33684410	INFINITY EVERLAST SZ 4 10MM
33684412	INFINITY EVERLAST SZ 4 12MM
33685407	INFINITY EVERLAST SZ 4+ 7MM
33685409	INFINITY EVERLAST SZ 4+ 9MM
33685411	INFINITY EVERLAST SZ 4+ 11MM
33685413	INFINITY EVERLAST SZ 4+ 13MM
33685506	INFINITY EVERLAST SZ 5 6MM
33685508	INFINITY EVERLAST SZ 5 8MM
33685510	INFINITY EVERLAST SZ 5 10MM
33685512	INFINITY EVERLAST SZ 5 12MM



1023 Cherry Road Memphis, TN 38117 800 238 7117 901 867 9971 www.wright.com

56 Kingston Road Staines-upon-Thames Surrey TW18 4NL United Kingdom +44 (0)845 833 4435 161 Rue Lavoisier 38330 Montbonnot Saint Martin France +33 (0)4 76 61 35 00

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