



United[®]
Orthopedic Corporation



U2 PSA[™]
Revision Knee

Surgical Protocol

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1 Component Removal

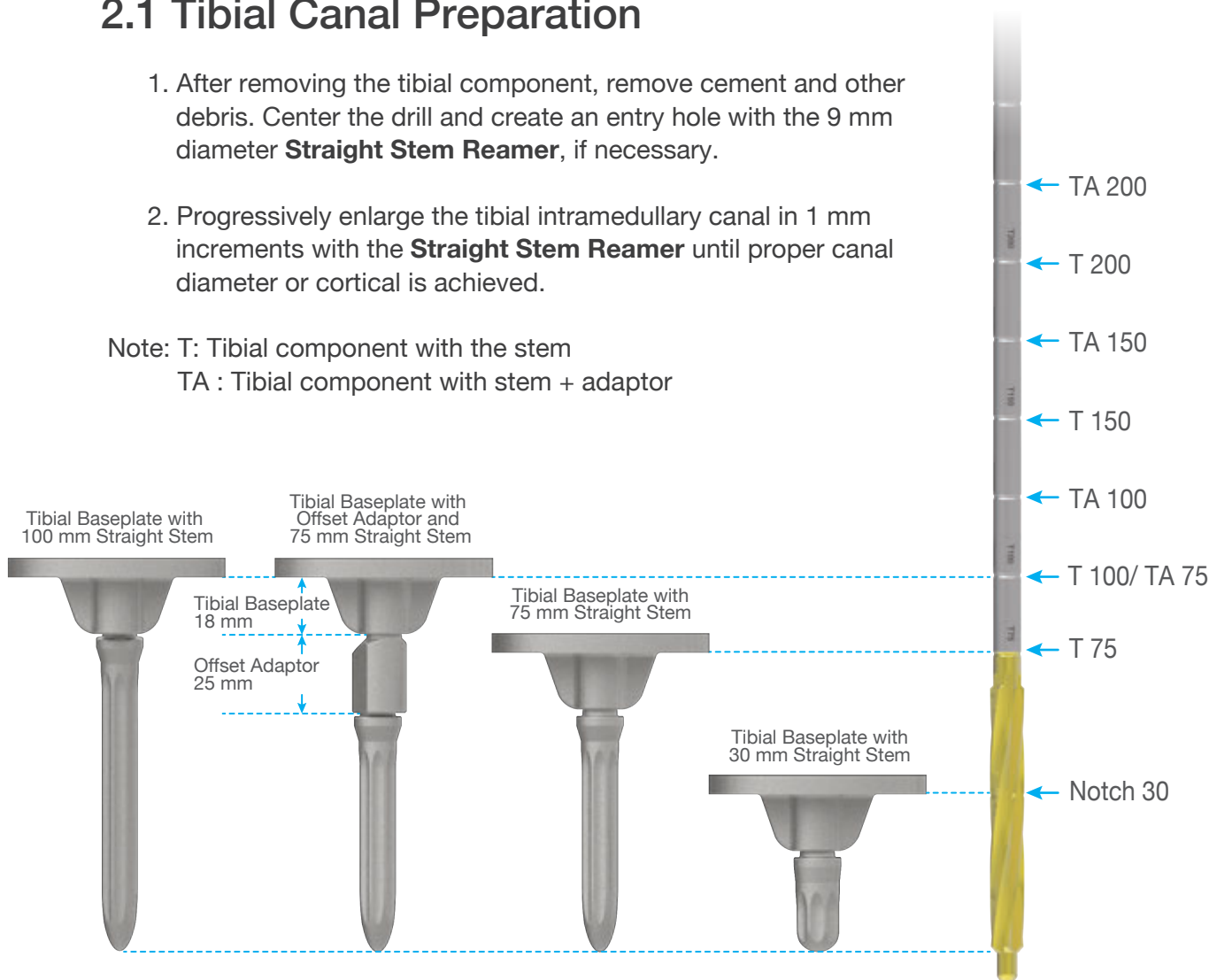
When removing the components, great care must be taken to preserve as much of the remaining bone stock as possible and to avoid the risk of fracture of the residual bone stock. Through the use of small flexible osteotomes, saws, and high-speed burring instruments, bone preservation can usually be achieved.

2 Tibial Preparation

2.1 Tibial Canal Preparation

1. After removing the tibial component, remove cement and other debris. Center the drill and create an entry hole with the 9 mm diameter **Straight Stem Reamer**, if necessary.
2. Progressively enlarge the tibial intramedullary canal in 1 mm increments with the **Straight Stem Reamer** until proper canal diameter or cortical is achieved.

Note: T: Tibial component with the stem
TA : Tibial component with stem + adaptor



Instruments



Straight Stem Reamer
Cat. No. varies by size



2.2 Proximal Tibial Resection

1. Attach the **IM Guide Collar** to the **Tibial IM Alignment Guide**.
2. Slide the **Tibial Resection Guide** onto the **Tibial IM Alignment Guide**.

Instruments



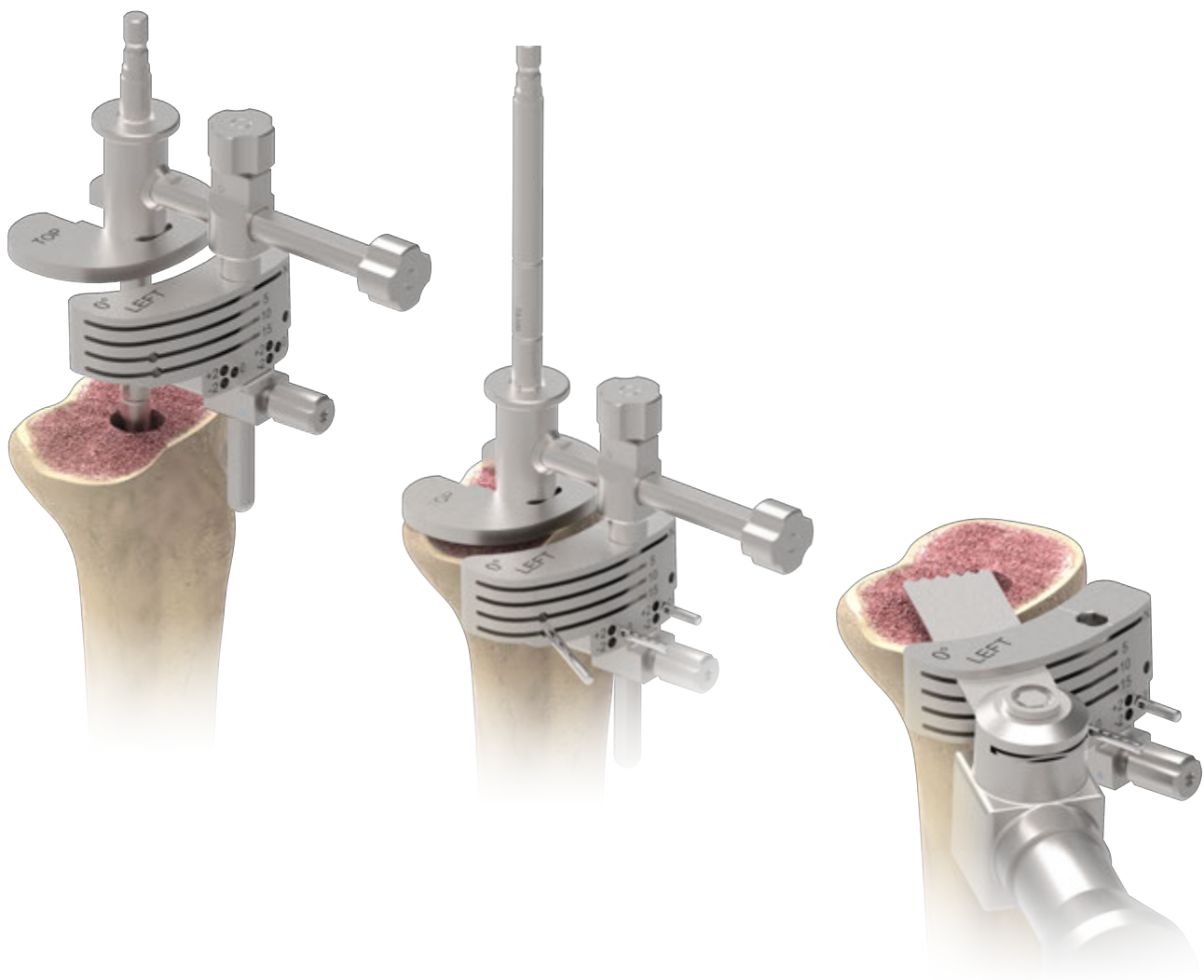
IM Guide Collar
S: 9403-2311
M: 9403-2313
L: 9403-2315



Tibial IM Alignment Guide
9403-2310



Tibial Resection Guide
Left: 9403-2321-RB
Right: 9403-2322-RB



3. Place the appropriate **Straight Stem Reamer** (or the **Tibial IM Rod**) in the tibial cavity.
4. Insert the assembly onto the reamer until the **IM Guide Collar** against the proximal tibial surface. Then tighten the **Tibial IM Alignment Guide** to the reamer.
5. Move the **Tibial Resection Guide** until it against the anterior tibia, then secure the position.
6. Pin the resection guide through the central holes marked 0, then perform a 2 mm clean cut through the "N" slot.
7. +2 or -2 mm resection holes allow the resection guide to be shifted for additional adjustments.

Instruments



Straight Stem Reamer
Cat. No. varies by size



IM Guide Collar
S: 9403-2311
M: 9403-2313
L: 9403-2315



Tibial IM Alignment Guide
9403-2310



Tibial Resection Guide
Left: 9403-2321-RB
Right: 9403-2322-RB



Tibial IM Rod
9403-3201



Pin
9303-3207



2.3 Non Offset Tibial Preparation

2.3.1 Sizing and Placement

1. Select the proper size **Tibial Sizing Template** that provides desired tibial coverage and attach it to the **Tibial Sizing Template Handle**.
2. Place the assembly over the reamer onto the resected proximal tibia to assess the A-P and M-L size.
3. Slide the **Tibial Neutral Bushing** onto the reamer. To confirm alignment, insert the **Alignment Rod** into the handle. If adequate coverage and position is not achieved, refer to **2.4 Offset Tibial Trial Preparation**.

Instruments



Tibial Sizing Template
Cat. No. varies by size



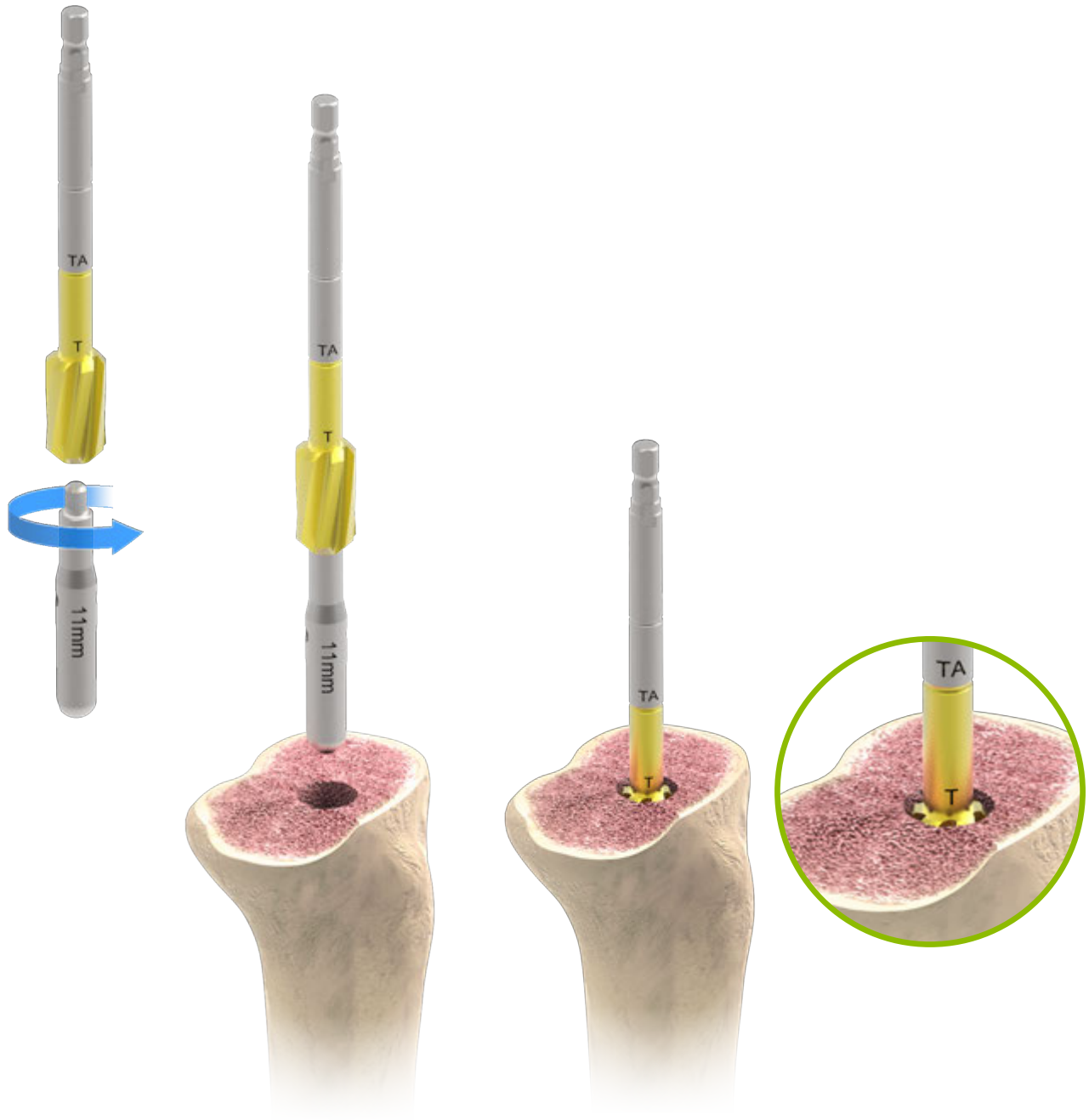
Tibial Sizing Template Handle
9403-1203



Tibial Neutral Bushing
9403-5315



Alignment Rod
9403-2202



4. Choose the **Reamer Guide Rod** corresponding to the diameter of the last reamer used. Attach the **Reamer Guide Rod** to the **Boss Reamer**. Ream until the depth reaches to the laser marked "T" on the boss reamer. The boss reaming process will not be necessary if the last reamer used is larger than 16 mm.

Instruments



Reamer Guide Rod
Cat. No. varies by size



Boss Reamer
9403-3300



2.3.2 Tibial Trial Assembly

1. The tibial trial is assembled by pushing the appropriate size **Straight Stem Trial** into the **Tibial Baseplate Trial** through the bayonet locking mechanism.
2. Insert the tibial trial assembly into the tibial canal.

Instruments



Straight Stem Trial
Cat. No. varies by size



Tibial Baseplate Trial
Cat. No. varies by size



2.4 Offset Tibial Trial Preparation

2.4.1 Offset Sizing and Placement

1. If the position of the **Tibial Sizing Template** is not satisfactory, conduct the offset procedure.
2. Insert the 2 mm or 4 mm **Tibial Offset Bushing** onto the reamer and use the **Offset Bushing Wrench** to rotate it until the proper tibial coverage is achieved. Use the **Alignment Rod** to confirm alignment.
3. Make a note of the number on the offset bushing that lines to the laser mark on the **Tibial Sizing Template**. (eg. 5 o'clock position shown above)

Instruments



Tibial Sizing Template
Cat. No. varies by size



Tibial Sizing Template Handle
9403-1203



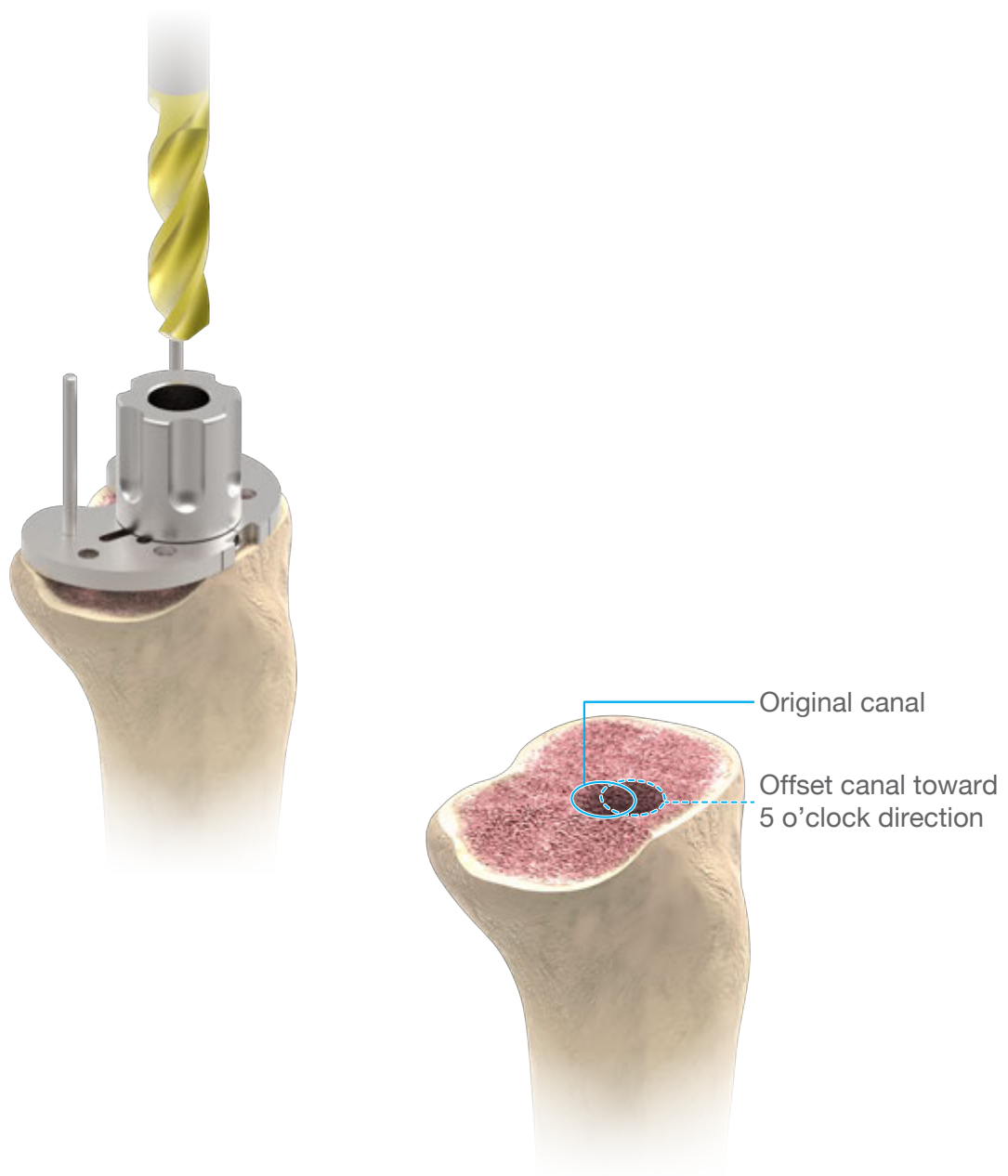
Alignment Rod
9403-2202



Tibial Offset Bushing
2 mm: 9403-5316
4 mm: 9403-5317



Offset Bushing Wrench
9403-5333



2.4.2 Offset Tibial Canal Preparation

1. Fix the **Tibial Sizing Template** with two pins. Assemble **Tibial Stem Drill Guide** to the **Tibial Sizing Template**. Prepare the offset canal by applying the **Tibial Stem Drill** through the guide until a positive stop is achieved.

Instruments



Tibial Sizing Template
Cat. No. varies by size



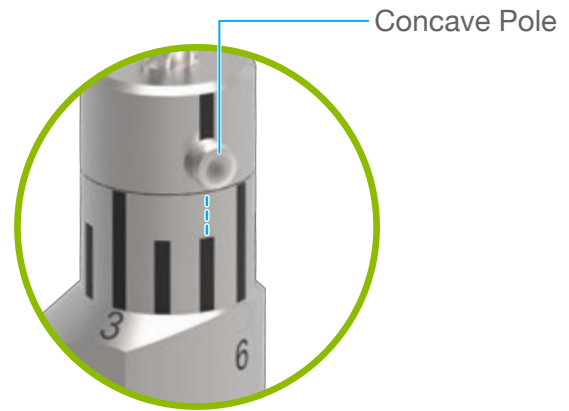
Tibial Stem Drill Guide
9403-2414



Tibial Stem Drill
9403-3314



Reamer Guide Rod
Cat. No. varies by size



2.4.3 Offset Tibial Trial Assembly

1. Assemble the **Screw Driver Adaptor** to **Driver Handle**, and utilize it to loosen the **Offset Adaptor Trial**.
2. Align the concave pole on the adaptor trial to the predetermined number then tighten the **Offset Adaptor Trial**.

Instruments



Screw Driver Adaptor
9403-5331-RA



Driver Handle
9403-1302-RA



Offset Adaptor Trial
2 mm: 2903-2010
4 mm: 2903-2020
6 mm: 2903-2030



3. Connect the **Offset Adaptor Trial** to the **Tibial Baseplate Trial** through the bayonet locking, and ensure the correct laser mark on the offset adaptor is aligned to the line marking on the baseplate trial.
4. Then attach the trial assembly with the appropriate **Straight Stem Trial**.
5. Insert the tibial trial assembly into the tibial canal.

Instruments



Straight Stem Trial
Cat. No. varies by size



Tibial Baseplate Trial
Cat. No. varies by size



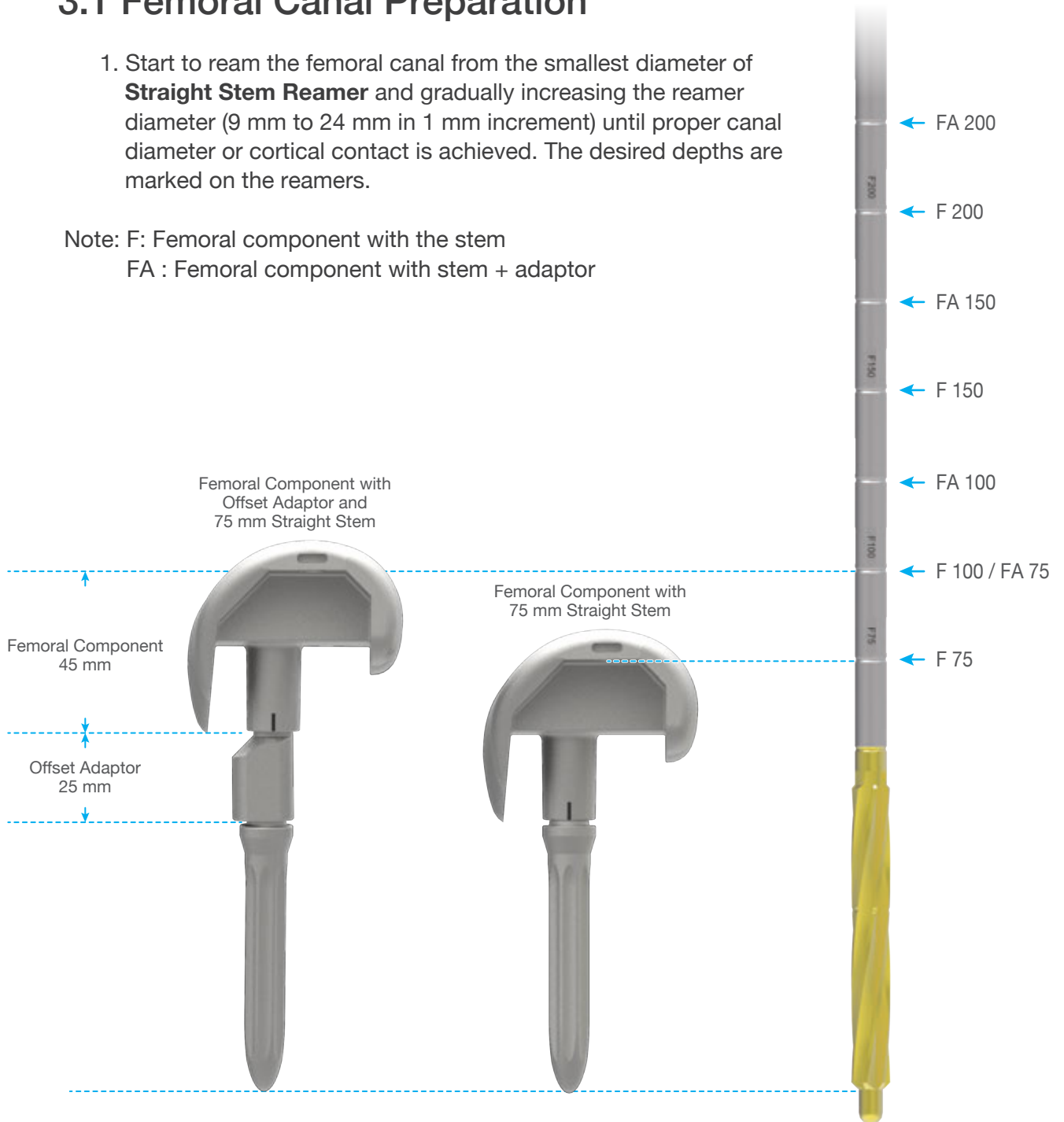
Offset Adaptor Trial
2 mm: 2903-2010
4 mm: 2903-2020
6 mm: 2903-2030

3 Femoral Preparation

3.1 Femoral Canal Preparation

1. Start to ream the femoral canal from the smallest diameter of **Straight Stem Reamer** and gradually increasing the reamer diameter (9 mm to 24 mm in 1 mm increment) until proper canal diameter or cortical contact is achieved. The desired depths are marked on the reamers.

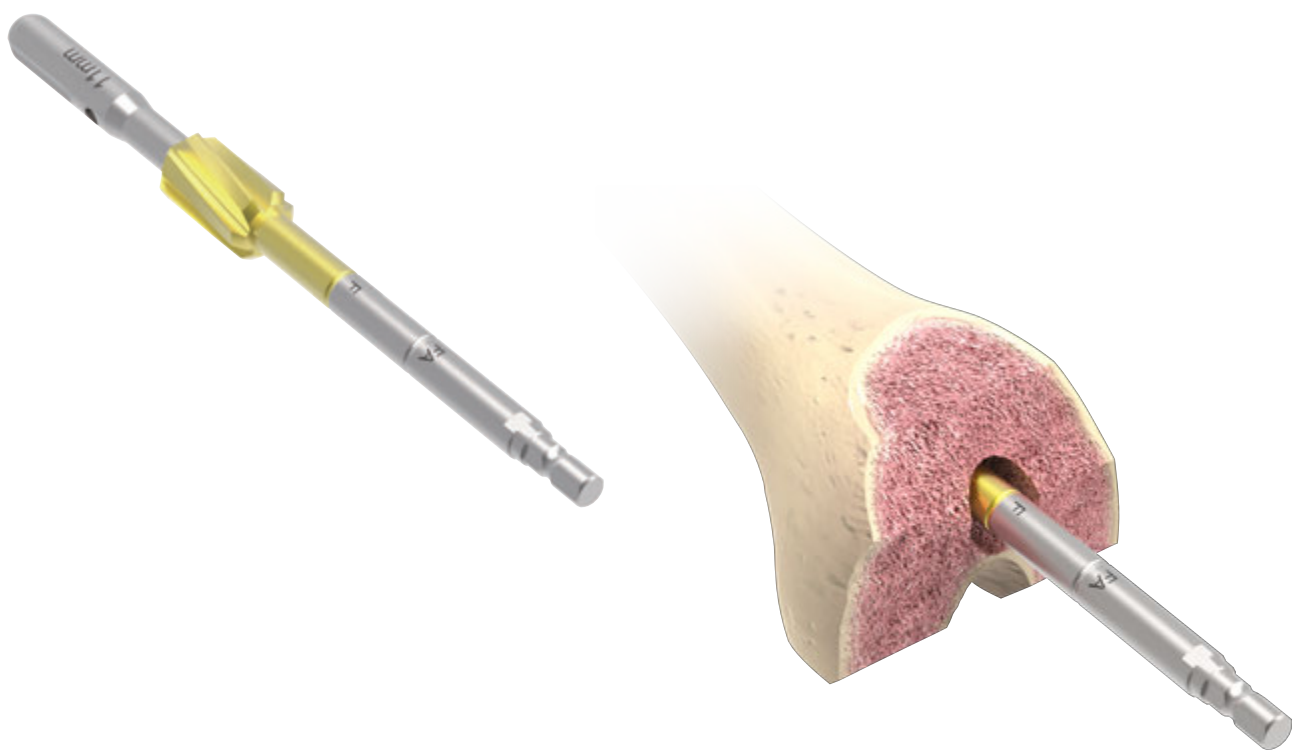
Note: F: Femoral component with the stem
FA : Femoral component with stem + adaptor



Instruments



Straight Stem Reamer
Cat. No. varies by size



3. Choose the **Reamer Guide Rod** corresponding to the diameter of the last reamer used. Attach the **Reamer Guide Rod** to the **Boss Reamer**. Then ream the femoral canal to the depth until the indicator mark “F” on the **Boss Reamer** line up with the entry hole. The boss reaming process will not be necessary if the last reamer used is larger than 16 mm.
4. As the reaming process is completed, place the appropriate reamer (or the **Femoral IM Rod**) in the femoral cavity.

Instruments



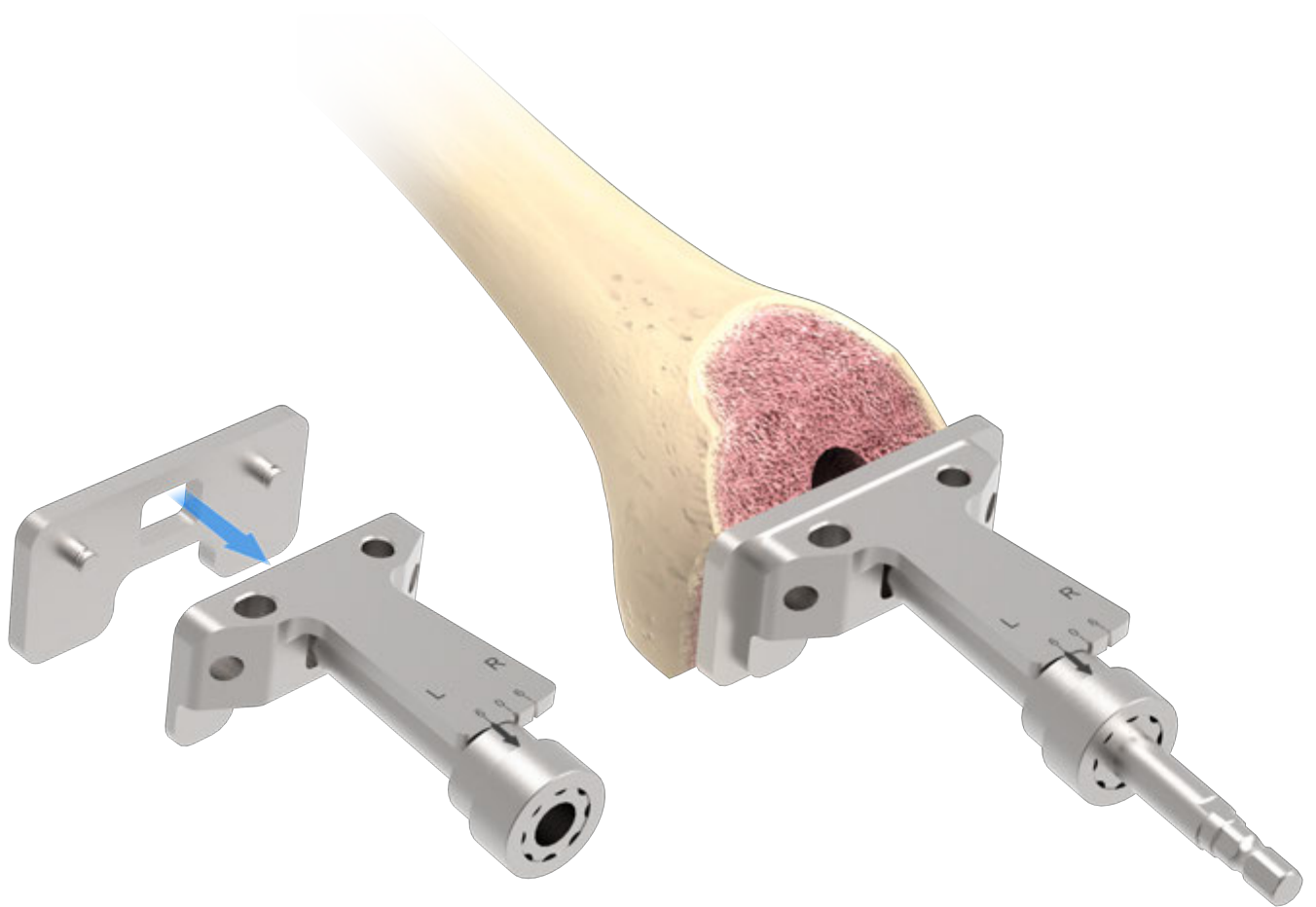
Reamer Guide Rod
Cat. No. varies by size



Boss Reamer
9403-3300



Femoral IM Rod
9303-3210



3.2 Distal Femoral Resection

1. Attach the **Distal Femoral Plate** to the **Femoral IM Alignment Guide** and slide the assembly onto the reamer until it contacts to the distal femur. U2 PSA knee **Femoral IM Alignment Guide** offers a fixed 6 degrees valgus angle.

Instruments



Distal Femoral Plate
S: 9303-2701
M: 9303-2703
L: 9303-2705



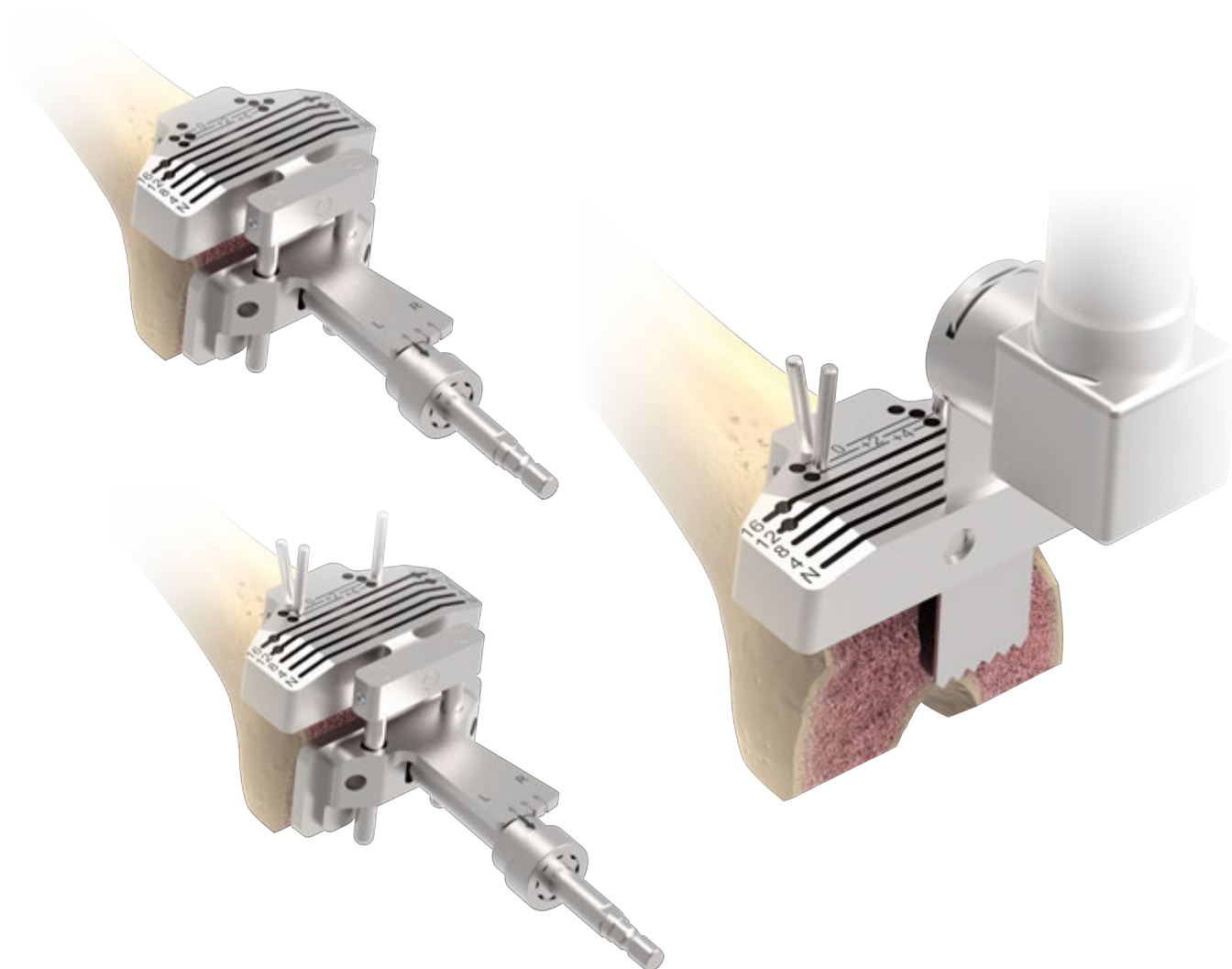
Femoral IM Alignment Guide
9303-2706



Straight Stem Reamer
Cat. No. varies by size



Femoral IM Rod
9303-3210



2. Attach the **Distal Femoral Alignment Guide** to the **Distal Femoral Resection Guide**, and then slide the assembly onto the **Femoral IM Alignment Guide**.
3. Pin the **Distal Femoral Resection Guide**. Then remove the alignment guides assembly from the reamer.
4. Perform a 2 mm clean cut when resecting through the “N” slot on the **Distal Femoral Resection Guide**.

Note: If adjustment for the resection is needed, utilize the +2 or +4 holes to relocate the **Distal Femoral Resection Guide** accordingly.

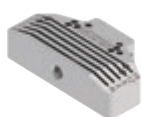
Instruments



Femoral IM Alignment Guide
9303-2706



Distal Femoral Alignment Guide
9303-2707



Distal Femoral Resection Guide
9303-2708-RB



Pin
9303-3207



3.3 Non Offset Femoral Sizing and Placement

3.3.1 Femoral Sizing Preparation

1. Assemble the **Femoral Valgus Adaptor** to the appropriate size of **Straight Stem Trial**.
2. Insert the **Femoral Valgus Adaptor** onto the **Femoral Sizing Template** and depress it until it is fully engaged to the sizing template.
3. Connect the **Screw Driver Adaptor** to the **Driver Handle**, then tighten the adaptor to the sizing template with screw driver.

Instruments



Straight Stem Trial
Cat. No. varies by size



Screw Driver Adaptor
9403-5331-RA



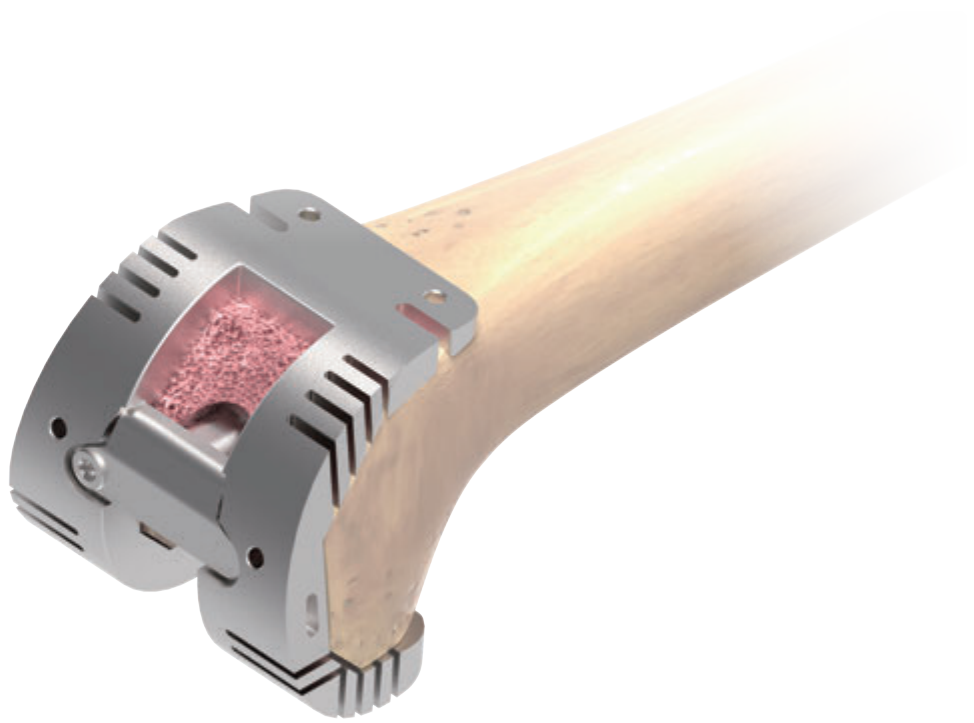
Driver Handle
9403-1302-RA



Femoral Valgus Adaptor
Left: 9303-5333-RB
Right: 9303-5334-RB



Femoral Sizing Template
Cat. No. varies by size



4. Insert the femoral sizing assembly into the canal and assess proper A-P / M-L size and position in relation to the femur.



3.4 Joint Line Evaluation and Flexion/Extension Gap Balancing

1. Once A-P and M-L position of the femoral sizing assembly has been determined, leave the femoral sizing assembly on the femur, and place the proper size **Tibial Spacer Base** on the tibial baseplate assembly with the appropriate thickness **Tibial Spacer**.
2. Perform the joint line evaluation. If the femoral sizing assembly does not contact the distal end of the femur during the evaluation, a **Femoral Distal Spacer** can be utilized as temporary augment.
3. After restore appropriate joint line, balance the extension and flexion gaps.

Instruments



Femoral Valgus Adaptor
Left: 9303-5333-RB
Right: 9303-5334-RB



Femoral Sizing Template
Cat. No. varies by size



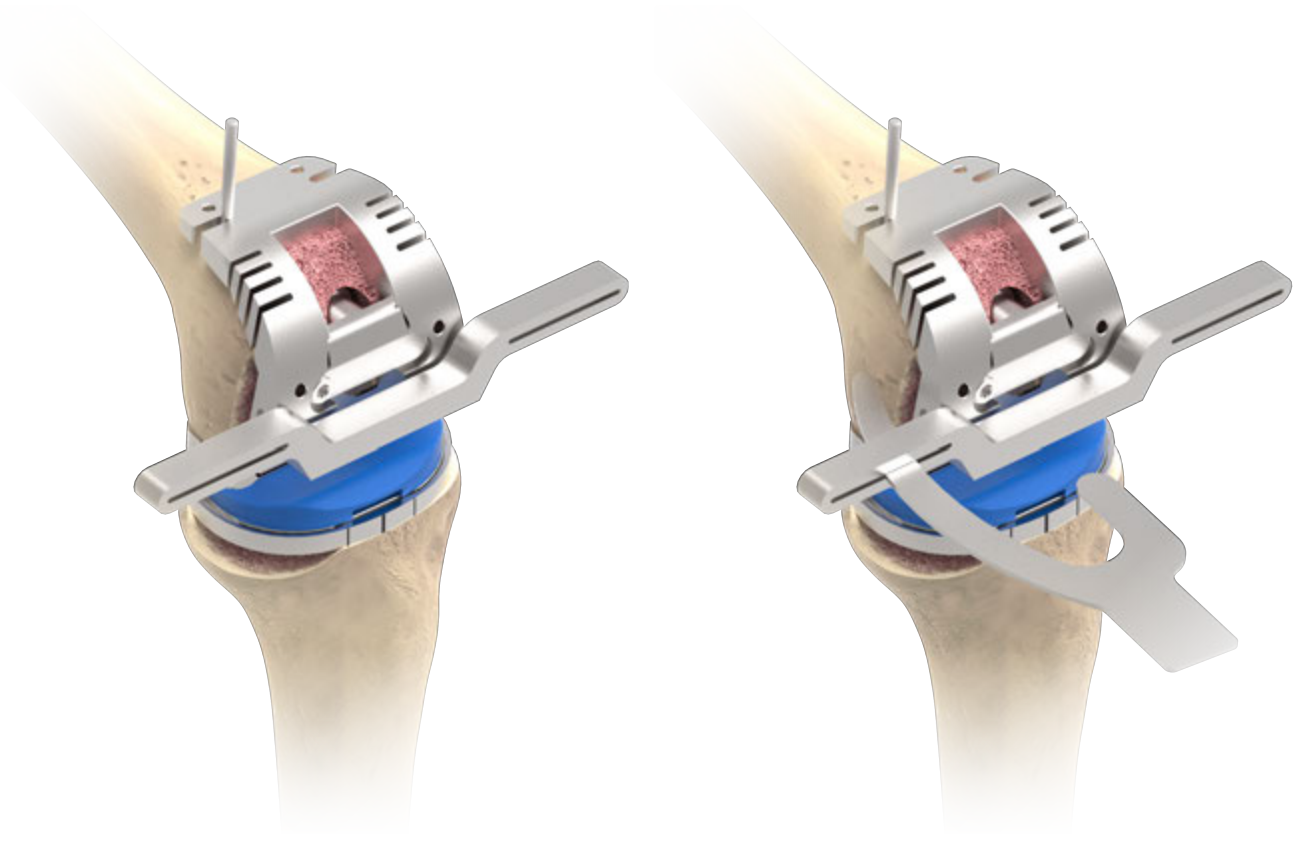
Tibial Spacer Base
Cat. No. varies by size



Tibial Spacer
Cat. No. varies by size



Femoral Distal Spacer
2 mm: 9303-5202
4 mm: 9303-5204
6 mm: 9303-5206
8 mm: 9303-5208



3.5 Establish Femoral Rotation

1. Once the joint line has been determined, fix the sizing template with a **Pin** in the upper slot.
2. Attach the **Femoral Rotation Guide** to the **Femoral Sizing Template** by inserting the rotation guide into the slots on the sizing template.
3. To achieve the proper rotation, utilize the **Lower Point Gauge** to align with the transepicondylar axis.
4. If the sizing template is in proper alignment and rotation, secure in place with two **Pins** in the upper two holes.
5. Once the joint line and femoral rotation is confirmed, additional bone resection can be performed if needed. The augment space is prepared through 4/8/12/16 resection slots on the **Femoral Sizing Template**.

Instruments



Pin
9303-3207



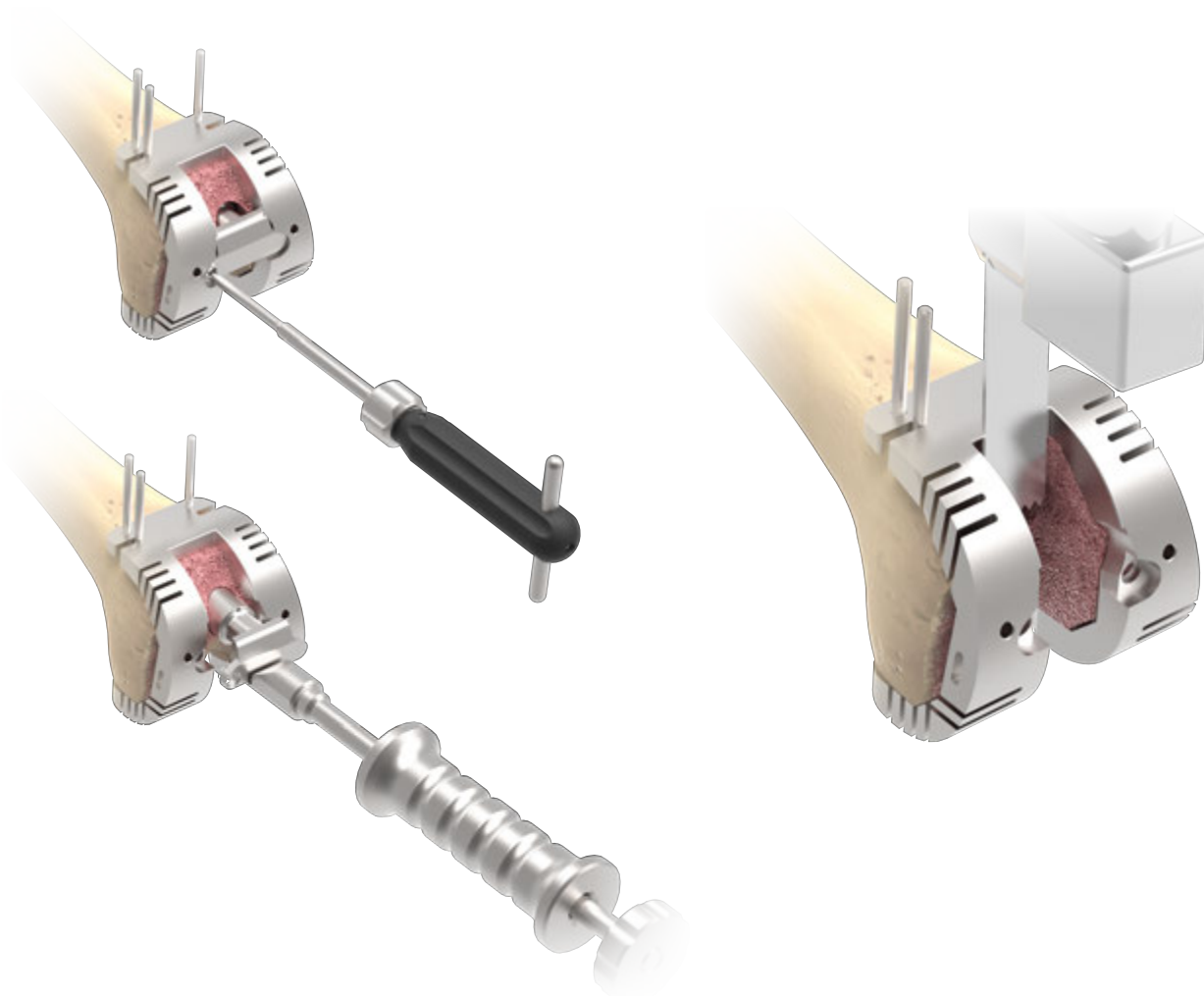
Femoral Sizing Template
Cat. No. varies by size



Femoral Rotation Guide
9303-5315



Lower Point Gauge
9301-2251



3.6 Femoral Box Preparation

1. Disassemble the **Femoral Valgus Adaptor** and the **Femoral Sizing Template** with the screw driver.
2. Utilize the **Sliding Hammer** together with the **Valgus Adaptor Remover** to remove the Femoral Valgus Adaptor and the **Stem Trial**.
3. Then complete the resection.

Instruments



Straight Stem Trial
Cat. No. varies by size



Femoral Valgus Adaptor
Left: 9303-5333-RB
Right: 9303-5334-RB



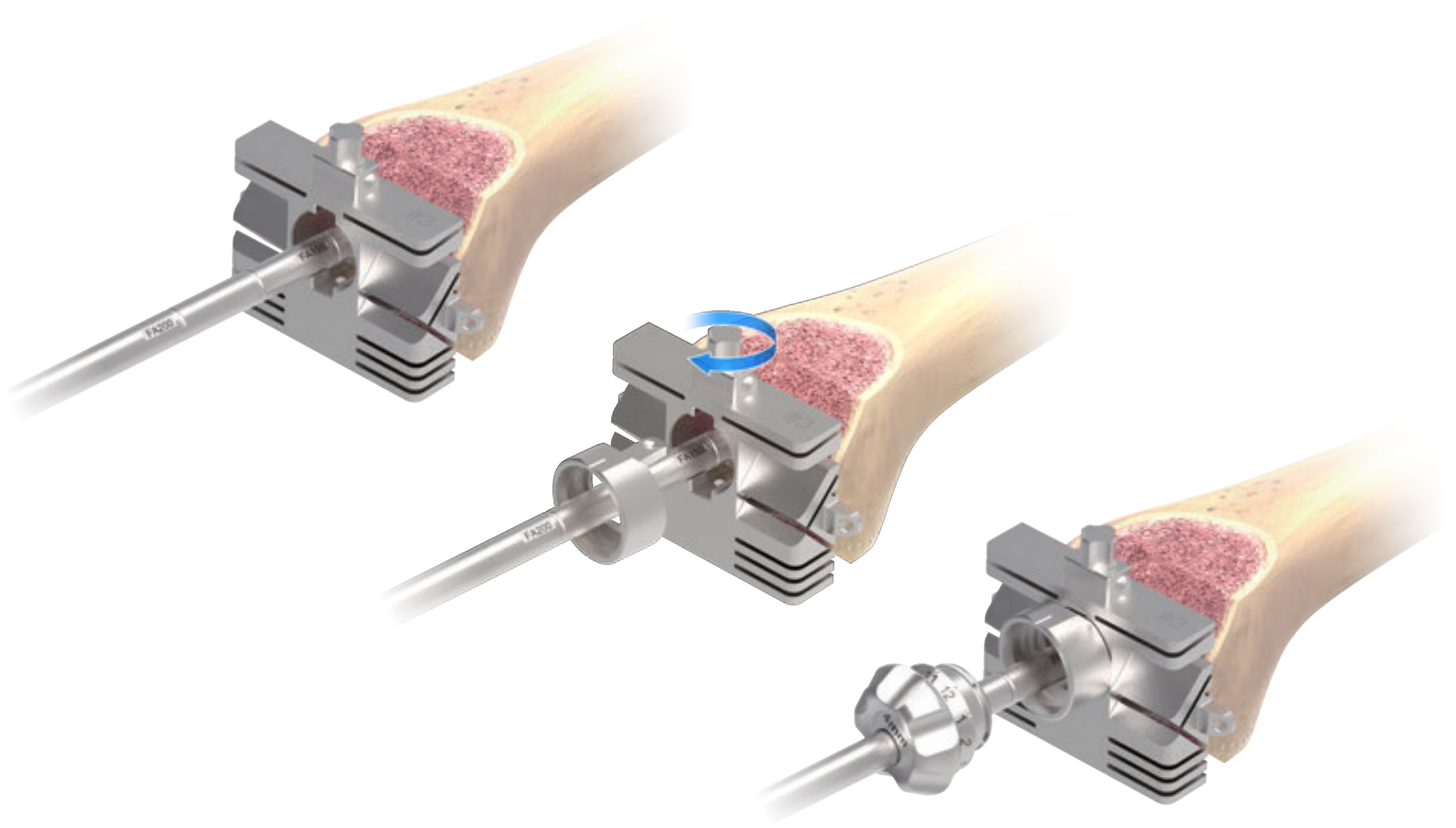
Femoral Sizing Template
Cat. No. varies by size



Sliding Hammer
9303-5311



Valgus Adaptor Remover
9303-5126



3.7 Offset Femoral Preparation

3.7.1 Offset Sizing and Placement

1. Access the proper ML size with the **Femoral Cutting Guide** over the **Straight Stem Reamer** and against the surface of distal femur.
2. Attach the **Femoral Offset Adaptor** to the **Femoral Cutting Guide** thus creating 6 degrees valgus angle for left knee or right knee (by referring to the indicator). Then, secure the adaptor with the upper knob.
3. Evaluate the appropriate offset level with **Femoral Offset Bushing**.

Note: The **Femoral Cutting Guide** can be stabilized on the distal femur by assembling the **Cutting Guide Spacer** through the backside groove of the **Femoral Cutting Guide**.

Instruments



Straight Stem Reamer
Cat. No. varies by size



Femoral Cutting Guide
Cat. No. varies by size



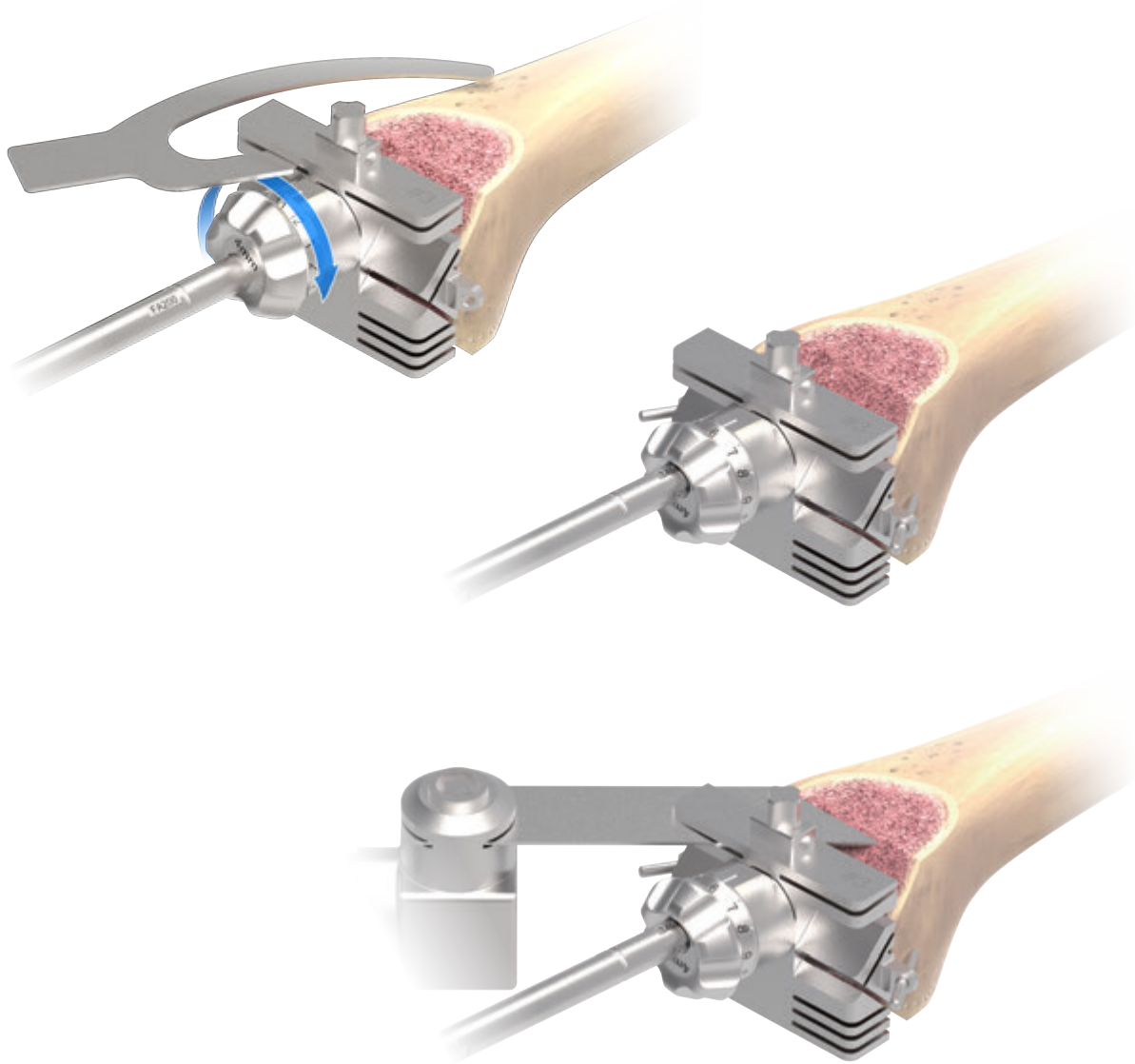
Femoral Offset Adaptor
9303-5311-RA



Femoral Offset Bushing
Neutral: 9303-5310
2 mm: 9303-5312
4 mm: 9303-5314



Cutting Guide Spacer
2 mm: 9303-5402
4 mm: 9303-5404
6 mm: 9303-5406
8 mm: 9303-5408



4. Dial the **Femoral Offset Bushing** until the **Femoral Cutting Guide** is positioned appropriately for medial and lateral coverage as well as anterior and posterior bone cut. Check the resection level with the **Lower Point Gauge**.
5. Fix the **Femoral Cutting Guide** to the distal femur with two **Pins**. Then, complete the A/P and chamfer cuts.

Instruments



Straight Stem Reamer
Cat. No. varies by size



Femoral Cutting Guide
Cat. No. varies by size



Femoral Offset Adaptor
9303-5311-RA



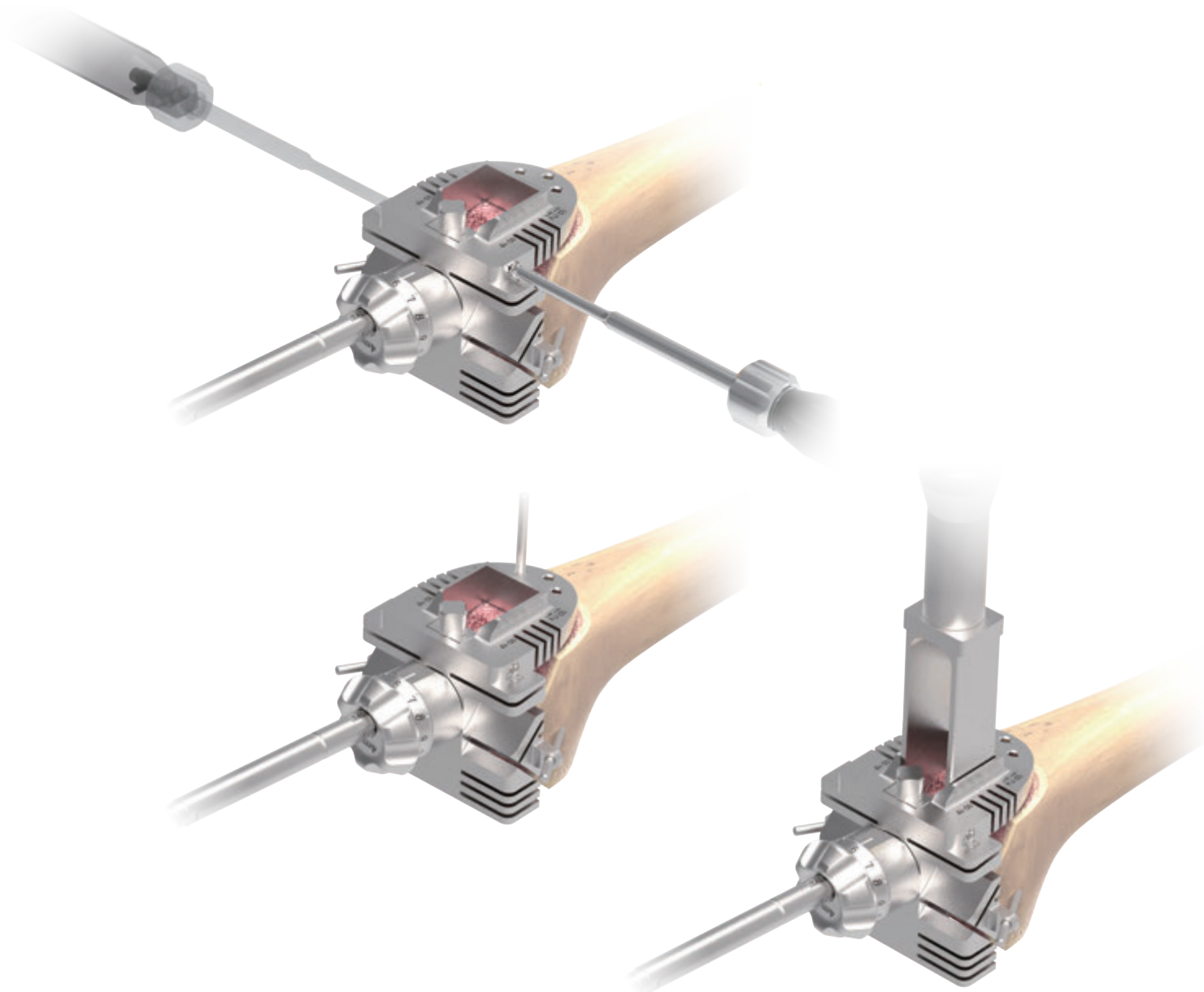
Femoral Offset Bushing
Neutral: 9303-5310
2 mm: 9303-5312
4 mm: 9303-5314



Lower Point Gauge
9301-2251



Pin
9303-3207



3.7.2 Intercondylar Box and Offset Femoral Boss Preparation

1. Place the **Box Cutting Plate** on the anterior femur and secure the **Box Cutting Plate** to the **Femoral Cutting Guide** with the Screw Driver.
2. Pin the **Box Cutting Plate** on the medial side of anterior femur to enhance fixation.
3. Advance the **PS Notch Punch** into the **Box Cutting Plate** until a positive stop is achieved.

Instruments



Femoral Cutting Guide
Cat. No. varies by size



Femoral Offset Adaptor
9303-5311-RA



Femoral Offset Bushing
Neutral: 9303-5310
2 mm: 9303-5312
4 mm: 9303-5314



Box Cutting Plate
9303-2738-RA



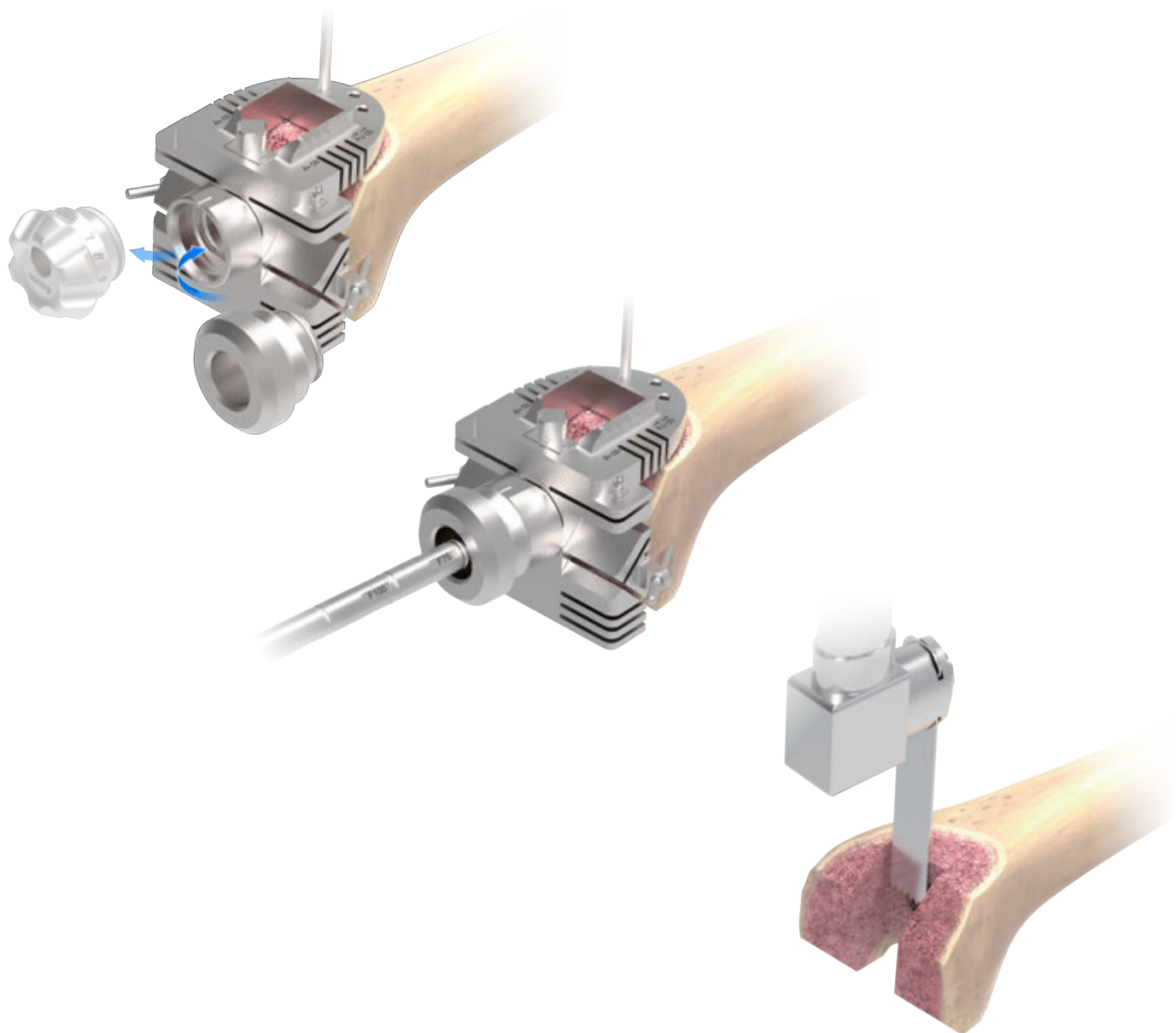
Screw Driver Adaptor
9403-5331-RA



Driver Handle
9403-1302-RA



PS Notch Punch
9303-5125



4. Replace the **Femoral Offset Bushing** with the **Femoral Offset Drill Guide**.
5. Advance the 16 mm **Straight Stem Reamer** into the **Femoral Offset Drill Guide** until the depth marked "F 75" in line with the **Femoral Offset Drill Guide**.
6. Remove the assembly from the distal femur and complete the intercondylar box resection.

Instruments



Straight Stem Reamer
Cat. No. varies by size



Femoral Cutting Guide
Cat. No. varies by size



Femoral Offset Adaptor
9303-5311-RA



Femoral Offset Drill Guide
9303-5316



Pin
9303-3207



Box Cutting Plate
9303-2738-RA

4 Final Trial Reduction

4.1 Femoral Trial Preparation

1. Attach the appropriate **Femoral Posterior Augment Trial**, and/or the **Femoral Distal Augment Trial** to the proper **Femoral Trial** by snapping into place.
2. Assemble the **Femoral Trial** to the **Straight Stem Trial** and the **Offset Adaptor Trial**, if desired.



Instruments



Straight Stem Trial
Cat. No. varies by size



Offset Adaptor Trial
2 mm: 2903-2010
4 mm: 2903-2020
6 mm: 2903-2030



Femoral Posterior Augment Trial
Cat. No. varies by size



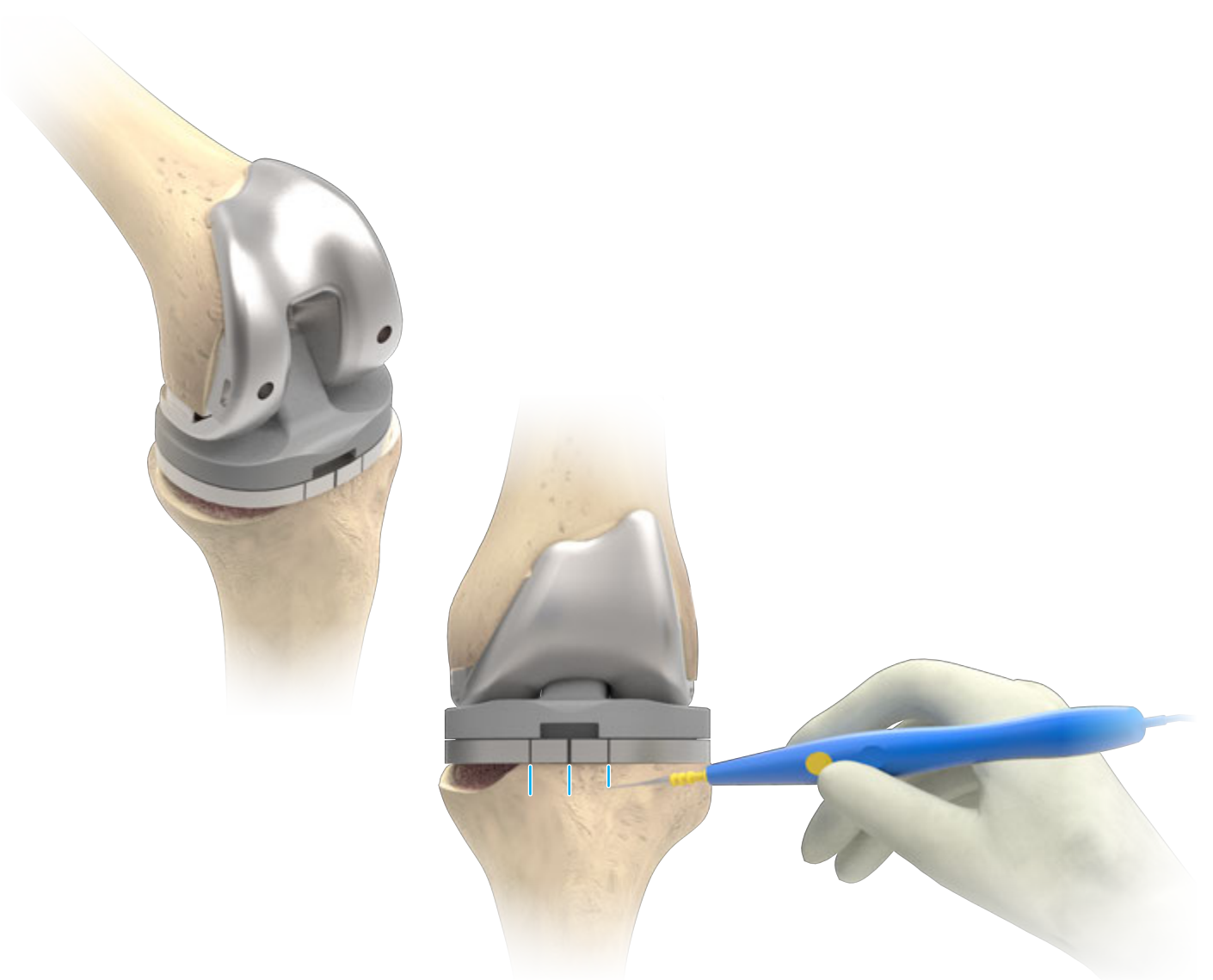
Femoral Distal Augment Trial
Cat. No. varies by size



Femoral Distal Augment Trial
Cat. No. varies by size



Femoral Trial
Cat. No. varies by size



3. Remove **Tibial Spacer Base** and **Tibial Spacer** from the **Tibial Baseplate Trial**.
4. With the tibial trial assembly in the tibia and the femoral trial assembly in the femur, insert the appropriate size **Tibial Insert Trial**.
5. Perform a trial reduction and use the three anterior laser marks on the **Tibial Baseplate Trial** as references to mark on the tibia.

Instruments



Tibial Baseplate Trial
Cat. No. varies by size



Tibial Spacer Base
Cat. No. varies by size



Tibial Spacer
Cat. No. varies by size



Tibial Insert Trial
Cat. No. varies by size

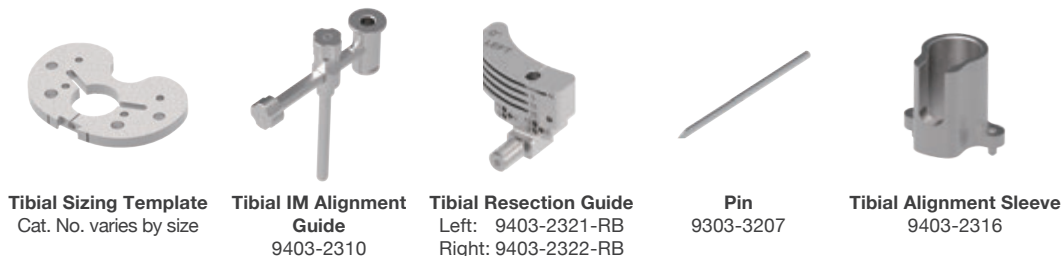


4.2 Final Tibial Preparation

4.2.1 Tibial Augment Resection

1. If tibial augments are needed, use two **Pins** through the **Tibial Baseplate Trial** and pin the baseplate trial into the proximal tibia to lock the rotational orientation.
2. Remove the tibial trial, and place the proper **Tibial Sizing Template** on the proximal tibial surface through the pins. Make sure the laser marks on the sizing template align to the marks on the anterior tibia. Then attach the **Tibial Alignment Sleeve** on the top of the template.
3. Reposition the tibial resection assembly and fix it with two **Pins** to the anterior tibia.
4. Remove the template, sleeve and alignment guide, leaving the **Tibial Resection Guide** in place. Additional resection of 5,10, or 15 mm may now be performed.

Instruments





4.2.2 Tibial Fin Punching

1. If necessary attach the appropriate **Tibial Augment Trials** to the distal aspect of the **Tibial Sizing Template**, then replace the template assembly to the proximal tibial surface.
2. Assemble the proper size **Tibial Punch** to the **Tibial Punch Handle**, insert the punch into the proximal tibial template and impact until fully seated.

Instruments



Tibial Sizing Template
Cat. No. varies by size



Tibial Augment Trials
Cat. No. varies by size



Tibial Punch Handle
9403-1101-RC



Tibial Punch
S: 9403-6011
M: 9403-6021
L: 9403-6031



4.2.3 Final Trial Reduction

1. Assemble the appropriate **Tibial Baseplate Trial**, **Straight Stem Trial**, **Tibial Augment Trial**, and/or **Offset Adaptor Trial** for which the tibia has been prepared.
2. Insert the final assembly into the tibia and place the proper **Tibial Insert Trial**.
3. Check the range of motion, joint stability and perform any necessary soft tissue releases.

Instruments



Straight Stem Trial
Cat. No. varies by size



Tibial Baseplate Trial
Cat. No. varies by size



Offset Adaptor Trial
2 mm: 2903-2010
4 mm: 2903-2020
6 mm: 2903-2030



Tibial Insert Trial
Cat. No. varies by size

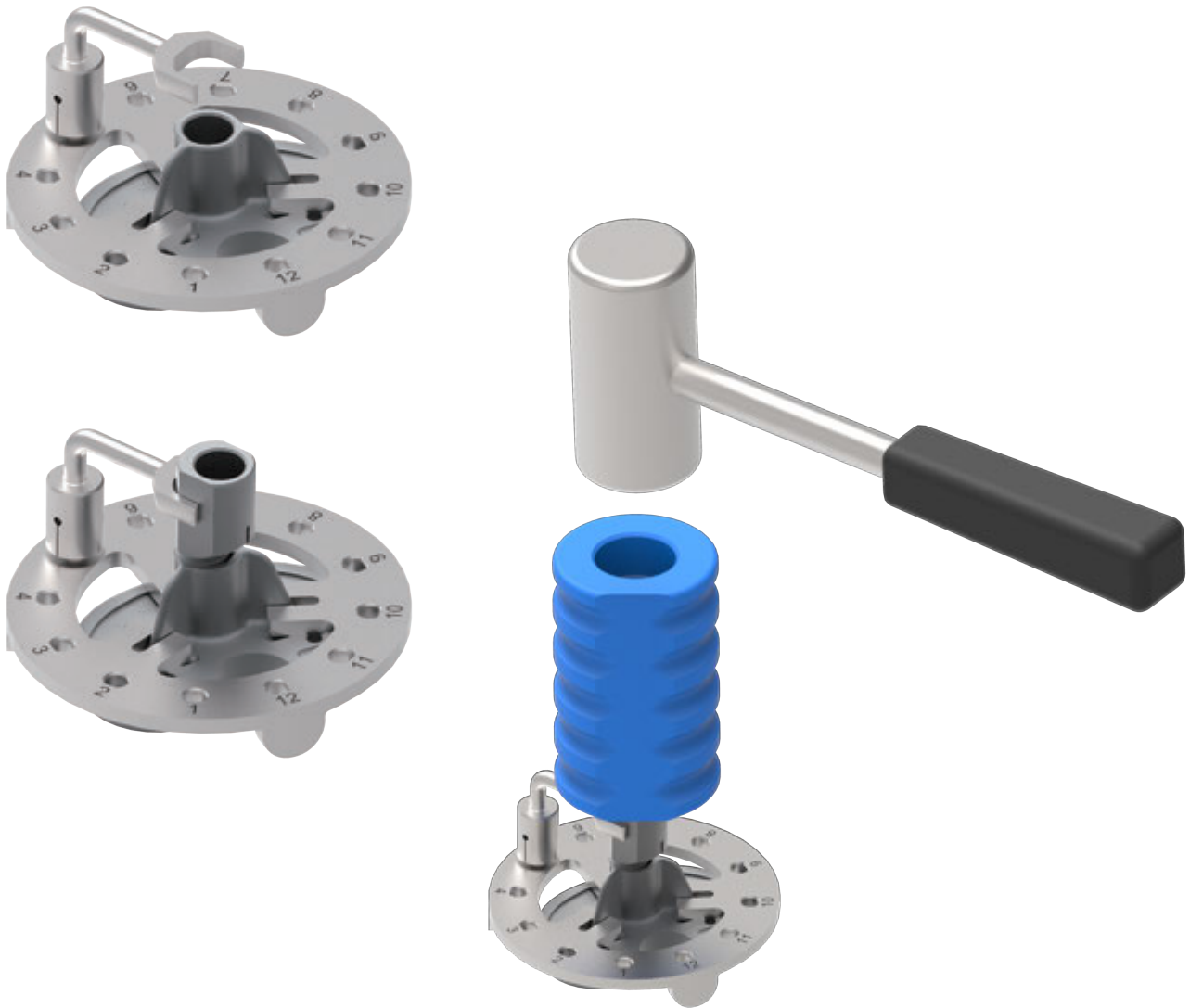


Tibial Augment Trials
Cat. No. varies by size

5 Implantation

5.1 Tibial Component Preparation

1. If the Offset Stem Adaptor is needed, set the **Tibial Offset Fixture** on the tibial baseplate implant and hold the adaptor with **Tibial Offset Wrench**, which is positioned in the number that was determined. Place the **Stem Impactor** on the adaptor, and impact on the impactor solidly to ensure the taper lock is properly engaged between the adaptor and the baseplate implant.



Instruments



Tibial Offset Fixture
9403-5320



Tibial Offset Wrench
9403-5322



Stem Impactor
9403-5340



2. If the augment(s) is needed, screw the appropriate tibial augment(s) into the distal aspect of the tibial baseplate implant with **Screw Driver**.
3. Secure the augments by applying moderate torque to tighten the screw.

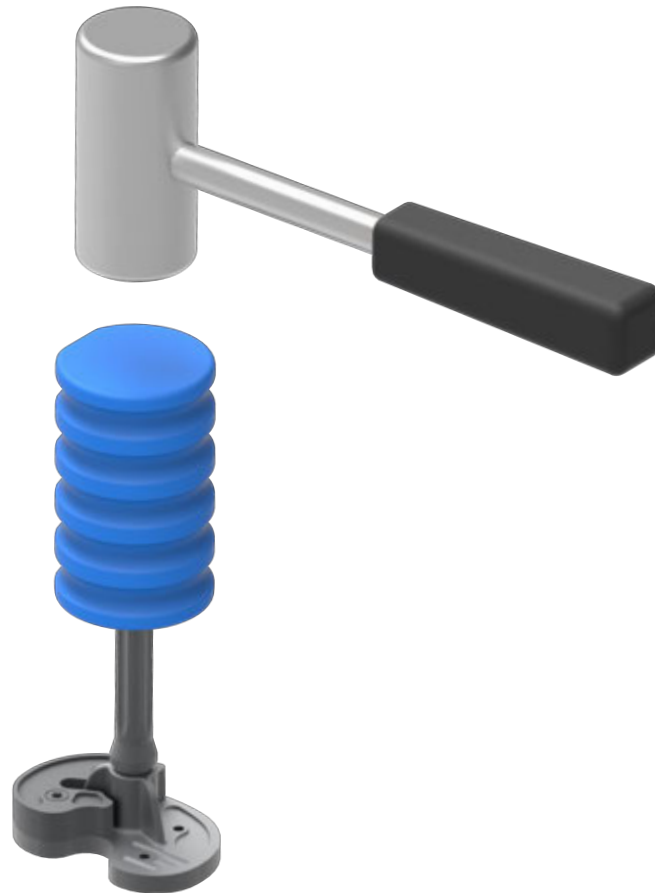
Instruments



Screw Driver Adaptor
9403-5331-RA



Driver Handle
9403-1302-RA



4. Choose the appropriate length and diameter stem that was used for the tibial trial.
5. Insert the stem extension implant into the offset adaptor and/or the tibial baseplate implant, and protect the stem by placing the **Stem Impactor** on the tip of the stem.
6. Impact on the impactor solidly to ensure the taper lock is properly engaged.

Instruments



Stem Impactor
9403-5340



5.2 Femoral Component Preparation

1. Select the size of femoral component implant and stem that was used for the femoral trial.
2. If the femoral distal augments or/and posterior augments are needed, select the appropriate size femoral distal or/and posterior augments and utilize the assembly of the **Screw Driver Adaptor / Screw Driver Adaptor L** and **Driver Handle** to secure the augments.

Instruments



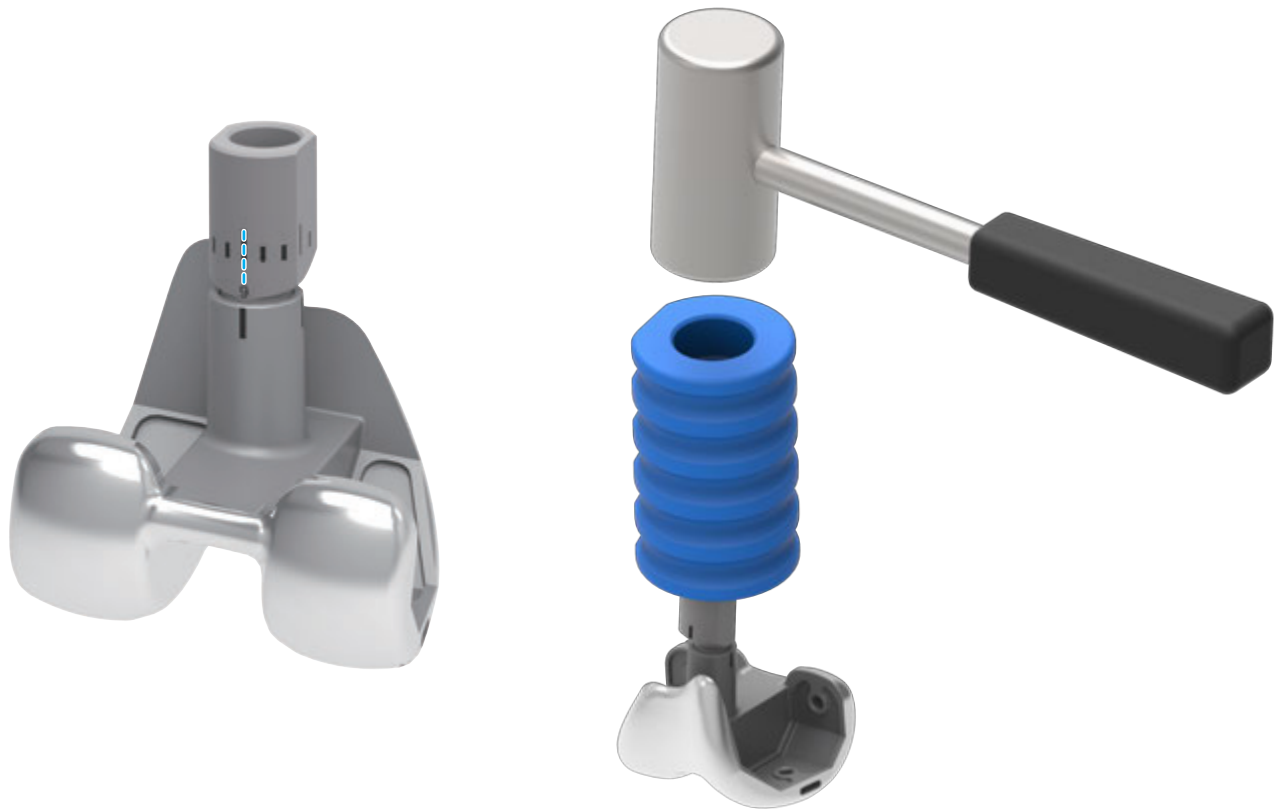
Screw Driver Adaptor
9403-5331-RA



Driver Handle
9403-1302-RA



Screw Driver Adaptor L
9303-5329



3. If the offset adaptor is needed, take the adaptor trial as a reference (obtained previously in the **3.4 Offset Femoral Sizing and Placement section**, p.17) and aligns the predetermined clock position on the offset adaptor with the etched line on the posterior side of the femoral component. Insert the offset adaptor into the femoral implant. Place the **Stem Impactor** on the adaptor and impact on the impactor solidly to ensure the taper lock is properly engaged.

Instruments



Stem Impactor
9403-5340



4. Select the appropriate length and diameter stem that was used for the femoral trial.
5. Insert the stem extension implant into the offset adaptor and/or femoral component implant, and protect the stem by placing the **Stem Impactor** on the tip of the stem.
6. Impact on the impactor solidly twice to ensure the taper lock is properly engaged.
7. After the stem has been impacted into the femoral component, insert the femoral screw into the intercondylar hole.
8. Utilize the assembly of the **Screw Driver Adaptor** and **Driver Handle**, then apply moderate torque to tighten the femoral screw to the femoral component and the stem/offset adaptor.

Instruments



Screw Driver Adaptor
9403-5331-RA



Driver Handle
9403-1302-RA



5.3 Implant Fixation

1. Apply cement under the tibial baseplate and insert the tibial implant into the position with the **Tibial Baseplate Driver**.
2. Impact the tibial baseplate implant with the **Tibial Baseplate Impactor** and remove excess cement.

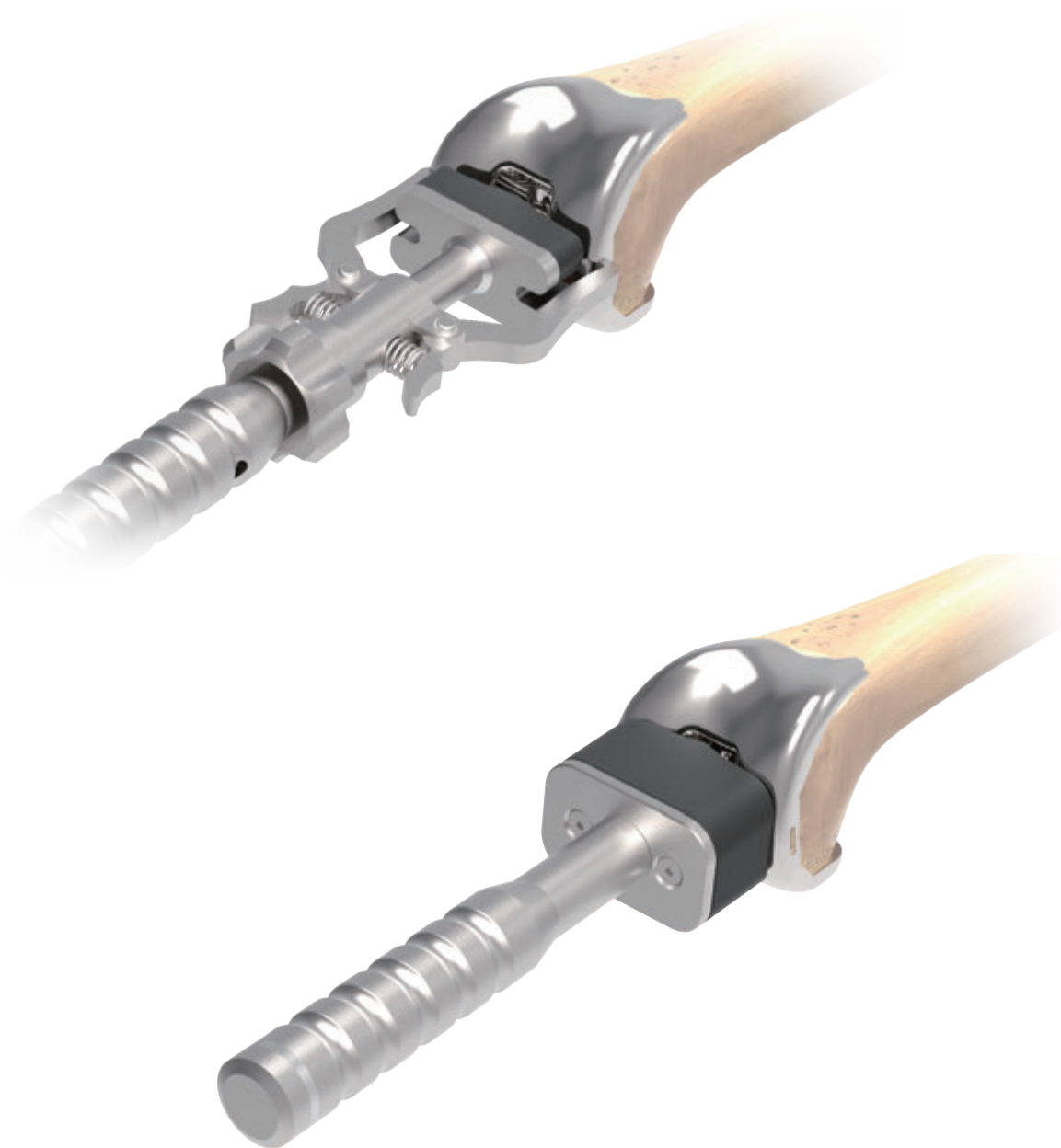
Instruments



Tibial Baseplate Driver
9403-5101-RC



Tibial Baseplate Impactor
9403-5102-RF



3. Place cement onto the surface of the femoral component implant and insert the implant into the position with the **Femoral Driver**.
4. Impact the implant with the **Femoral Impactor** and remove excess cement.

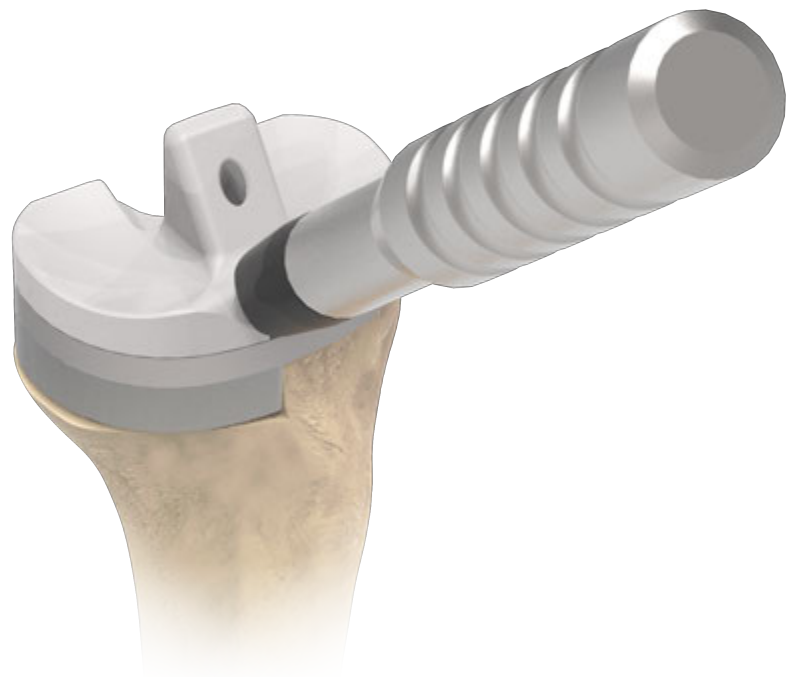
Instruments



Femoral Driver
9303-5110-RD



Femoral Impactor
9303-5103-RB

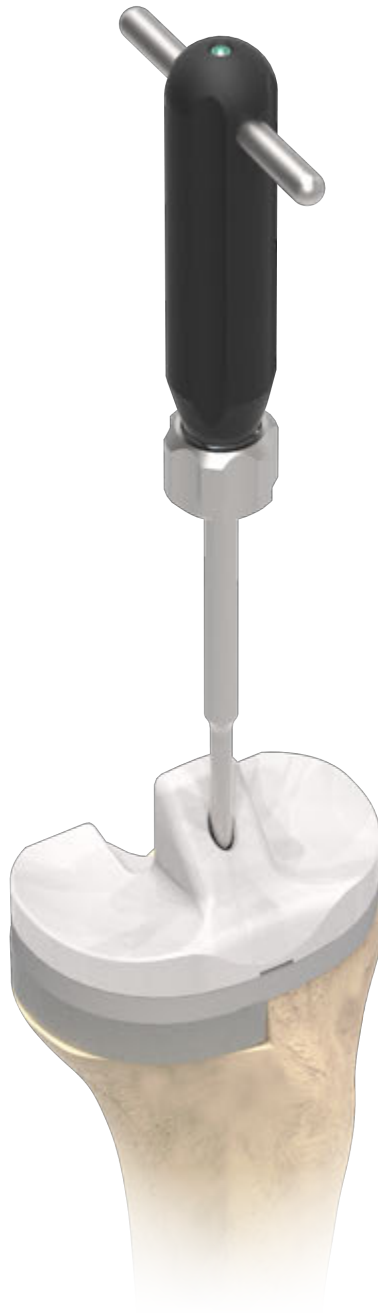


5. Place the appropriate size tibial insert on the tibial baseplate and use the **Universal Impactor** to fully seat the insert.

Instruments



Universal Impactor
9303-5119-RB



6. After the tibial insert is emplaced, tighten the screw that is inside the tibial insert with the assembly of the **Screw Driver Adaptor** and **Driver Handle**.

Instruments



Screw Driver Adaptor
9403-5331-RA



Driver Handle
9403-1302-RA

Component

Special Order Items

Femoral Component

Tibial Baseplate



| | Left | Right |
|----|-----------|-----------|
| #1 | 2103-5110 | 2103-5210 |
| #2 | 2103-5120 | 2103-5220 |
| #3 | 2103-5130 | 2103-5230 |
| #4 | 2103-5140 | 2103-5240 |
| #5 | 2103-5150 | 2103-5250 |
| #6 | 2103-5160 | 2103-5260 |



| | |
|----|-----------|
| #1 | 2203-5210 |
| #2 | 2203-5220 |
| #3 | 2203-5230 |
| #4 | 2203-5240 |
| #5 | 2203-5250 |
| #6 | 2203-5260 |

Tibial Insert



| | UHMWPE | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 9 mm | 11 mm | 13 mm | 15 mm | 18 mm | 21 mm | 25 mm | 30 mm |
| #1 | 2303-5011 | 2303-5012 | 2303-5013 | 2303-5014 | 2303-5015 | 2303-5016 | 2303-5017 | 2303-5018 |
| #2 | 2303-5021 | 2303-5022 | 2303-5023 | 2303-5024 | 2303-5025 | 2303-5026 | 2303-5027 | 2303-5028 |
| #3 | 2303-5031 | 2303-5032 | 2303-5033 | 2303-5034 | 2303-5035 | 2303-5036 | 2303-5037 | 2303-5038 |
| #4 | 2303-5041 | 2303-5042 | 2303-5043 | 2303-5044 | 2303-5045 | 2303-5046 | 2303-5047 | 2303-5048 |
| #5 | 2303-5051 | 2303-5052 | 2303-5053 | 2303-5054 | 2303-5055 | 2303-5056 | 2303-5057 | 2303-5058 |
| #6 | 2303-5061 | 2303-5062 | 2303-5063 | 2303-5064 | 2303-5065 | 2303-5066 | 2303-5067 | 2303-5068 |


| | XPE | | | | | | | |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 9 mm | 11 mm | 13 mm | 15 mm | 18 mm | 21 mm | 25 mm | 30 mm |
| #1 | 2303-5611 | 2303-5612 | 2303-5613 | 2303-5614 | 2303-5615 | 2303-5616 | 2303-5617 | 2303-5618 |
| #2 | 2303-5621 | 2303-5622 | 2303-5623 | 2303-5624 | 2303-5625 | 2303-5626 | 2303-5627 | 2303-5628 |
| #3 | 2303-5631 | 2303-5632 | 2303-5633 | 2303-5634 | 2303-5635 | 2303-5636 | 2303-5637 | 2303-5638 |
| #4 | 2303-5641 | 2303-5642 | 2303-5643 | 2303-5644 | 2303-5645 | 2303-5646 | 2303-5647 | 2303-5648 |
| #5 | 2303-5651 | 2303-5652 | 2303-5653 | 2303-5654 | 2303-5655 | 2303-5656 | 2303-5657 | 2303-5658 |
| #6 | 2303-5661 | 2303-5662 | 2303-5663 | 2303-5664 | 2303-5665 | 2303-5666 | 2303-5667 | 2303-5668 |

Tibial Insert, Low Constrained



| | XPE, LC type | | | | | | | |
|----|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 9 mm | 11 mm | 13 mm | 15 mm | 18 mm | 21 mm | 25 mm | 30 mm |
| #1 | 2303-5211 | 2303-5212 | 2303-5213 | 2303-5214 | 2303-5215 | 2303-5216 | 2303-5217 | 2303-5218 |
| #2 | 2303-5221 | 2303-5222 | 2303-5223 | 2303-5224 | 2303-5225 | 2303-5226 | 2303-5227 | 2303-5228 |
| #3 | 2303-5231 | 2303-5232 | 2303-5233 | 2303-5234 | 2303-5235 | 2303-5236 | 2303-5237 | 2303-5238 |
| #4 | 2303-5241 | 2303-5242 | 2303-5243 | 2303-5244 | 2303-5245 | 2303-5246 | 2303-5247 | 2303-5248 |
| #5 | 2303-5251 | 2303-5252 | 2303-5253 | 2303-5254 | 2303-5255 | 2303-5256 | 2303-5257 | 2303-5258 |
| #6 | 2303-5261 | 2303-5262 | 2303-5263 | 2303-5264 | 2303-5265 | 2303-5266 | 2303-5267 | 2303-5268 |

Component

 Special Order Items

Femoral Augment Set



| | Distal | | | | Distal | | Posterior | |
|----|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| | 4 mm LM/RL | 4 mm LL/RM | 8 mm LM/RL | 8 mm LL/RM | 12 mm | 16 mm | 4 mm | 8 mm |
| #1 | 2603-5111 | 2603-5211 | 2603-5112 | 2603-5212 | 2603-5313 | 2603-5314 | 2603-5011 | 2603-5012 |
| #2 | 2603-5121 | 2603-5221 | 2603-5122 | 2603-5222 | 2603-5323 | 2603-5324 | 2603-5021 | 2603-5022 |
| #3 | 2603-5131 | 2603-5231 | 2603-5132 | 2603-5232 | 2603-5333 | 2603-5334 | 2603-5031 | 2603-5032 |
| #4 | 2603-5141 | 2603-5241 | 2603-5142 | 2603-5242 | 2603-5343 | 2603-5344 | 2603-5041 | 2603-5042 |
| #5 | 2603-5151 | 2603-5251 | 2603-5152 | 2603-5252 | 2603-5353 | 2603-5354 | 2603-5051 | 2603-5052 |
| #6 | 2603-5161 | 2603-5261 | 2603-5162 | 2603-5262 | 2603-5363 | 2603-5364 | 2603-5061 | 2603-5062 |

Tibial Augment



| | Ti Plasma Spray | | | | | |
|----|-----------------|-----------|-------------|-------------|-------------|-------------|
| | 5 mm | 10 mm | 15 mm LM/RL | 15 mm LL/RM | 15 mm LM/RL | 15 mm LL/RM |
| #1 | 2803-5211 | 2803-5212 | 2803-5113 | 2803-5213 | 2803-5313 | 2803-5413 |
| #2 | 2803-5221 | 2803-5222 | 2803-5123 | 2803-5223 | 2803-5323 | 2803-5423 |
| #3 | 2803-5231 | 2803-5232 | 2803-5133 | 2803-5233 | 2803-5333 | 2803-5433 |
| #4 | 2803-5241 | 2803-5242 | 2803-5143 | 2803-5243 | 2803-5343 | 2803-5443 |
| #5 | 2803-5251 | 2803-5252 | 2803-5153 | 2803-5253 | 2803-5353 | 2803-5453 |
| #6 | 2803-5261 | 2803-5262 | 2803-5163 | 2803-5263 | 2803-5363 | 2803-5463 |

Extension Stem



| | Straight Stem | | | | | Curved Stem | |
|-----|---------------|-----------|-----------|-----------|-----------|-------------|-----------|
| | 30 mm | 75 mm | 100 mm | 150 mm | 200 mm | 150 mm | 200 mm |
| Ø10 | N/A | 2703-5011 | 2703-5021 | 2703-5051 | 2703-5061 | 2703-5031 | 2703-5041 |
| Ø12 | N/A | 2703-5012 | 2703-5022 | 2703-5052 | 2703-5062 | 2703-5032 | 2703-5042 |
| Ø14 | 2703-5003 | 2703-5013 | 2703-5023 | 2703-5053 | 2703-5063 | 2703-5033 | 2703-5043 |
| Ø16 | N/A | 2703-5014 | 2703-5024 | 2703-5054 | 2703-5064 | 2703-5034 | 2703-5044 |
| Ø18 | N/A | 2703-5015 | 2703-5025 | 2703-5055 | 2703-5065 | 2703-5035 | 2703-5045 |
| Ø20 | N/A | 2703-5016 | 2703-5026 | 2703-5056 | 2703-5066 | 2703-5036 | 2703-5046 |

Offset Stem Adaptor



| | |
|------|-----------|
| 2 mm | 2903-1010 |
| 4 mm | 2903-1020 |
| 6 mm | 2903-1030 |

Femoral Screw



| | |
|------------|-----------|
| M5 x 14 mm | 2903-1014 |
|------------|-----------|

Instrument

Special Order Items

Femoral Trial



| | Left | Right |
|----|-----------|-----------|
| #1 | 2103-6110 | 2103-6210 |
| #2 | 2103-6120 | 2103-6220 |
| #3 | 2103-6130 | 2103-6230 |
| #4 | 2103-6140 | 2103-6240 |
| #5 | 2103-6150 | 2103-6250 |
| #6 | 2103-6160 | 2103-6260 |

Tibial Baseplate Trial



| | |
|----|-----------|
| #1 | 2203-6010 |
| #2 | 2203-6020 |
| #3 | 2203-6030 |
| #4 | 2203-6040 |
| #5 | 2203-6050 |
| #6 | 2203-6060 |

Tibial Insert Trial




| | 9 mm | 11 mm | 13 mm | 15 mm | 18 mm | 21 mm | 25 mm | 30 mm |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #1 | 2303-6011 | 2303-6012 | 2303-6013 | 2303-6014 | 2303-6015 | 2303-6016 | 2303-6017 | 2303-6018 |
| #2 | 2303-6021 | 2303-6022 | 2303-6023 | 2303-6024 | 2303-6025 | 2303-6026 | 2303-6027 | 2303-6028 |
| #3 | 2303-6031 | 2303-6032 | 2303-6033 | 2303-6034 | 2303-6035 | 2303-6036 | 2303-6037 | 2303-6038 |
| #4 | 2303-6041 | 2303-6042 | 2303-6043 | 2303-6044 | 2303-6045 | 2303-6046 | 2303-6047 | 2303-6048 |
| #5 | 2303-6051 | 2303-6052 | 2303-6053 | 2303-6054 | 2303-6055 | 2303-6056 | 2303-6057 | 2303-6058 |
| #6 | 2303-6061 | 2303-6062 | 2303-6063 | 2303-6064 | 2303-6065 | 2303-6066 | 2303-6067 | 2303-6068 |

Femoral Augment Trial Set



| | Distal | | | | Distal | | Posterior | |
|----|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| | 4 mm LM/RL | 4 mm LL/RM | 8 mm LM/RL | 8 mm LL/RM | 12 mm | 16 mm | 4 mm | 8 mm |
| #1 | 2603-6111 | 2603-6211 | 2603-6112 | 2603-6212 | 2603-6313 | 2603-6314 | 2603-6011 | 2603-6012 |
| #2 | 2603-6121 | 2603-6221 | 2603-6122 | 2603-6222 | 2603-6323 | 2603-6324 | 2603-6021 | 2603-6022 |
| #3 | 2603-6131 | 2603-6231 | 2603-6132 | 2603-6232 | 2603-6333 | 2603-6334 | 2603-6031 | 2603-6032 |
| #4 | 2603-6141 | 2603-6241 | 2603-6142 | 2603-6242 | 2603-6343 | 2603-6344 | 2603-6041 | 2603-6042 |
| #5 | 2603-6151 | 2603-6251 | 2603-6152 | 2603-6252 | 2603-6353 | 2603-6354 | 2603-6051 | 2603-6052 |
| #6 | 2603-6161 | 2603-6261 | 2603-6162 | 2603-6262 | 2603-6363 | 2603-6364 | 2603-6061 | 2603-6062 |

Instrument

 Special Order Items

Tibial Augment Trial



| | 5 mm Left | 10 mm Left | 5 mm Right | 10 mm Right | 15 mm LM/RL | 15 mm LL/RM |
|----|-----------|------------|------------|-------------|-------------|-------------|
| #1 | 2803-6111 | 2803-6112 | 2803-6211 | 2803-6212 | 2803-6113 | 2803-6213 |
| #2 | 2803-6121 | 2803-6122 | 2803-6221 | 2803-6222 | 2803-6123 | 2803-6223 |
| #3 | 2803-6131 | 2803-6132 | 2803-6231 | 2803-6232 | 2803-6133 | 2803-6233 |
| #4 | 2803-6141 | 2803-6142 | 2803-6241 | 2803-6242 | 2803-6143 | 2803-6243 |
| #5 | 2803-6151 | 2803-6152 | 2803-6251 | 2803-6252 | 2803-6153 | 2803-6253 |
| #6 | 2803-6161 | 2803-6162 | 2803-6261 | 2803-6262 | 2803-6163 | 2803-6263 |

Extension Stem Trial



| | Straight Stem | | | | | Curved Stem | |
|-----|---------------|-----------|-----------|-----------|-----------|-------------|-----------|
| | 30 mm | 75 mm | 100 mm | 150 mm | 200 mm | 150 mm | 200 mm |
| Ø10 | N/A | 2703-6011 | 2703-6021 | 2703-6051 | 2703-6061 | 2703-6031 | 2703-6041 |
| Ø12 | N/A | 2703-6012 | 2703-6022 | 2703-6052 | 2703-6062 | 2703-6032 | 2703-6042 |
| Ø14 | 2703-6003 | 2703-6013 | 2703-6023 | 2703-6053 | 2703-6063 | 2703-6033 | 2703-6043 |
| Ø16 | N/A | 2703-6014 | 2703-6024 | 2703-6054 | 2703-6064 | 2703-6034 | 2703-6044 |
| Ø18 | N/A | 2703-6015 | 2703-6025 | 2703-6055 | 2703-6065 | 2703-6035 | 2703-6045 |
| Ø20 | N/A | 2703-6016 | 2703-6026 | 2703-6056 | 2703-6066 | 2703-6036 | 2703-6046 |

Offset Stem Adaptor Trial


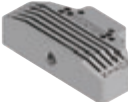








| | |
|------|-----------|
| 2 mm | 2903-2010 |
| 4 mm | 2903-2020 |
| 6 mm | 2903-2030 |

Instrument

| | Catalog Number | Description |
|---|----------------|--------------------------------|
|  | 9301-2251 | Lower Point Gauge, 1.30 mm |
|  | 9301-2282 | Extramedullary Alignment Tower |
|  | 9301-3207 | Spike, Short |
|  | 9301-5107 | Spike Remover |
|  | 9303-1101 | Stem Trial Driver |
|  | 9303-1300 | T-handle |
|  | 9303-2701 | Distal Femoral Plate, S |
| | 9303-2703 | Distal Femoral Plate, M |
| | 9303-2705 | Distal Femoral Plate, L |
|  | 9303-2706 | Femoral IM Alignment Guide |






Instrument

| | Catalog Number | Description |
|---|----------------|--------------------------------|
|  | 9303-2707 | Distal Femoral Alignment Guide |
|  | 9303-2708-RB | Distal Femoral Resection Guide |
|  | 9303-2731-RA | Femoral Cutting Guide, #1 |
| | 9303-2732-RA | Femoral Cutting Guide, #2 |
| | 9303-2733-RA | Femoral Cutting Guide, #3 |
| | 9303-2734-RA | Femoral Cutting Guide, #4 |
| | 9303-2735-RA | Femoral Cutting Guide, #5 |
| | 9303-2736-RA | Femoral Cutting Guide, #6 |
|  | 9303-2738-RA | Box Cutting Plate |
|  | 9303-3009 | Twist Drill, 8 mm |
|  | 9303-3203 | Twist Drill, 3.2 mm Short |
| | 9303-3204 | Twist Drill, 3.2 mm Long |
|  | 9303-3207 | Pin, 3.2 x 70 mm |
|  | 9303-3210 | Femoral IM Rod, Ø 9 x 400 mm |

Instrument








| | Catalog Number | Description |
|---|----------------|-----------------------------|
|  | 9303-5001-RA | Quick Pin Driver |
|  | 9303-5002 | Pin Extractor |
|  | 9303-5103-RB | Femoral Impactor |
|  | 9303-5110-RD | Femoral Driver |
|  | 9303-5119-RB | Universal Impactor |
|  | 9303-5125 | PS Notch Punch |
|  | 9303-5126 | Valgus Adaptor Remover |
|  | 9303-5202 | Femoral Distal Spacer, 2 mm |
| | 9303-5204 | Femoral Distal Spacer, 4 mm |
| | 9303-5206 | Femoral Distal Spacer, 6 mm |
| | 9303-5208 | Femoral Distal Spacer, 8 mm |

Instrument

| | Catalog Number | Description |
|---|----------------|---------------------------------|
|  | 9303-5310 | Femoral Offset Bushing, Neutral |
|  | 9303-5311 | Sliding Hammer |
|  | 9303-5311-RA | Femoral Offset Adaptor |
|  | 9303-5312 | Femoral Offset Bushing, 2mm |
| | 9303-5314 | Femoral Offset Bushing, 4mm |
|  | 9303-5315 | Femoral Rotation Guide |
|  | 9303-5316 | Femoral Offset Drill Guide |
|  | 9303-5329 | Screw Driver Adaptor L |
|  | 9303-5333-RB | Femoral Valgus Adaptor, Left |
| | 9303-5334-RB | Femoral Valgus Adaptor, Right |

Instrument








| | Catalog Number | Description |
|---|----------------|-------------------------------|
|  | 9303-5402 | Cutting guide spacer, 2mm |
| | 9303-5404 | Cutting guide spacer, 4mm |
| | 9303-5406 | Cutting guide spacer, 6mm |
| | 9303-5408 | Cutting guide spacer, 8mm |
|  | 9303-7311-RB | Femoral Sizing Template #1 |
| | 9303-7312-RB | Femoral Sizing Template #2 |
| | 9303-7313-RB | Femoral Sizing Template #3 |
| | 9303-7314-RB | Femoral Sizing Template #4 |
| | 9303-7315-RB | Femoral Sizing Template #5 |
| | 9303-7316-RB | Femoral Sizing Template #6 |
|  | 9303-8071-RA | U2 Knee PSA Case #1 |
| | 9303-8072 | U2 Knee PSA Case #2 |
| | 9303-8073-RA | U2 Knee PSA Case #3 |
| | 9303-8074 | U2 Knee PSA Case #4 |
| | 9303-8075 | U2 Knee PSA Case #5 |
| | 9303-8079 | U2 Knee Femoral Offset Case |
|  | 9403-1101-RC | Tibial Punch Handle CM |
|  | 9403-1203 | Tibial Sizing Template Handle |
|  | 9403-1302-RA | Driver Handle, 3/8" |
|  | 9403-2202 | Alignment Rod |






| | Catalog Number | Description |
|---|-------------------------------|-----------------------------------|
|  | 9403-2310 | Tibial IM Alignment Guide |
|  | 9403-2311 | IM Gguide Collar, S |
| | 9403-2313 | IM Gguide Collar, M |
| | 9403-2315 | IM Gguide Collar, L |
|  | 9403-2316 | Tibial Augment Alignment Sleeve |
|  | 9403-2321-RB | Tibial Resection Guide, 0°, Left |
| | 9403-2322-RB | Tibial Resection Guide, 0°, Right |
|  | 9403-2414 | Tibial Stem Drill Guide, Ø 14 mm |
|  | 9403-3009-RB | Straight Stem Reamer, Ø 9 mm |
| | 9403-3010-RB | Straight Stem Reamer, Ø 10 mm |
| | 9403-3011-RB | Straight Stem Reamer, Ø 11 mm |
| | 9403-3012-RB | Straight Stem Reamer, Ø 12 mm |
| | 9403-3013-RB | Straight Stem Reamer, Ø 13 mm |
| | 9403-3014-RB | Straight Stem Reamer, Ø 14 mm |
| | 9403-3015-RB | Straight Stem Reamer, Ø 15 mm |
| | 9403-3016-RB | Straight Stem Reamer, Ø 16 mm |
| | 9403-3017-RB | Straight Stem Reamer, Ø 17 mm |
| | 9403-3018-RB | Straight Stem Reamer, Ø 18 mm |
| | 9403-3019-RB | Straight Stem Reamer, Ø 19 mm |
| 9403-3020-RB | Straight Stem Reamer, Ø 20 mm | |
|  | 9403-3201 | Tibial IM Rod, Ø 9 x 430 mm |

Instrument

| | Catalog Number | Description |
|---|------------------------|--|
|  | 9403-3300 | Boss Reamer |
|  | 9403-3314 | Tibial Stem Drill, Ø 14 mm |
|  | 9403-5101-RC | Tibial Baseplate Driver |
|  | 9403-5102-RF | Tibial Baseplate Impactor |
|  | 9403-5104 | Tibial Insert Extractor |
|  | 9403-5315 | Tibial Neutral Bushing |
|  | 9403-5316 9403-5317 | Tibial Offset Bushing, 2 mm Tibial Offset Bushing, 4 mm |
|  | 9403-5320 | Tibial Offset Fixture |

Instrument

| | Catalog Number | Description |
|---|----------------|----------------------------|
|  | 9403-5322 | Tibial Offset Wrench |
|  | 9403-5331-RA | Screw Driver Adaptor |
|  | 9403-5333 | Offset Bushing Wrench |
|  | 9403-5334 | Stem Trial Remover |
|  | 9403-5340 | Stem Impactor |
|  | 9403-5352 | Stem Extractor Adaptor |
|  | 9403-5353 | Tibial Insert Screw Holder |

| | Catalog Number | Description |
|---|----------------|---------------------------|
|  | 9403-5361 | Reamer Guide Rod, Ø 9 mm |
| | 9403-5362 | Reamer Guide Rod, Ø 10 mm |
| | 9403-5363 | Reamer Guide Rod, Ø 11 mm |
| | 9403-5364 | Reamer Guide Rod, Ø 12 mm |
| | 9403-5365 | Reamer Guide Rod, Ø 13 mm |
| | 9403-5366 | Reamer Guide Rod, Ø 14 mm |
| | 9403-5367 | Reamer Guide Rod, Ø 15 mm |
| | 9403-5368 | Reamer Guide Rod, Ø 16 mm |
| | 9403-5369 | Reamer Guide Rod, Ø 17 mm |
| | 9403-5370 | Reamer Guide Rod, Ø 18 mm |
| | 9403-5371 | Reamer Guide Rod, Ø 19 mm |
|  | 9403-6011 | Tibial Punch, S |
| | 9403-6021 | Tibial Punch, M |
| | 9403-6031 | Tibial Punch, L |
|  | 9403-7301 | Tibial Sizing Template #1 |
| | 9403-7302 | Tibial Sizing Template #2 |
| | 9403-7303 | Tibial Sizing Template #3 |
| | 9403-7304 | Tibial Sizing Template #4 |
| | 9403-7305 | Tibial Sizing Template #5 |
| | 9403-7306 | Tibial Sizing Template #6 |
|  | 9403-7310 | Tibial Spacer Base #1 |
| | 9403-7320 | Tibial Spacer Base #2 |
| | 9403-7330 | Tibial Spacer Base #3 |
| | 9403-7340 | Tibial Spacer Base #4 |
| | 9403-7350 | Tibial Spacer Base #5 |
| | 9403-7360 | Tibial Spacer Base #6 |
|  | 9403-7311 | Tibial Spacer, 9 mm |
| | 9403-7312 | Tibial Spacer, 11 mm |
| | 9403-7313 | Tibial Spacer, 13 mm |
| | 9403-7314 | Tibial Spacer, 15 mm |
| | 9403-7315 | Tibial Spacer, 18 mm |
| | 9403-7316 | Tibial Spacer, 21 mm |
| | 9403-7317 | Tibial Spacer, 25 mm |
| | 9403-7318 | Tibial Spacer, 30 mm |

Safety Statement

INDICATIONS

This device is indicated in knee arthroplasty in skeletally mature patients with severe knee pain and disability due to rheumatoid arthritis, osteoarthritis, primary and secondary traumatic arthritis, polyarthritis, collagen disorders, avascular necrosis of the femoral condyle or pseudogout, posttraumatic loss of joint configuration, particularly when there is patellofemoral erosion, dysfunction or prior patellectomy, moderate valgus, varus, or flexion contraction. This device is intended for use in patients who require augmentation and/or stem extensions due to inadequate bone stock and/or require increased stabilization for tibiofemoral joint due to soft tissue imbalance. The femoral and tibial augments are to be attached to their respective components with a fixation screw or screws.

Note: In the US, this device is for cemented use only.

*Please refer to the product-specific package inserts for important information, including indications, contraindications, warnings, precautions, and potential adverse effects.
For Reprocessing Instructions for Reusable Surgical Instruments, please check at www.uoc.com.tw*



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Contact Us

■ Taiwan

United Orthopedic Corporation

12F, No.80, Sec.1, Chenggong Rd., Yonghe Dist.,
New Taipei City 23452, Taiwan
Tel: +886 2 2929 4567 Fax: +886 2 2922 4567

■ China

United Medical Instrument Co., Ltd.

Room 402, Building 7, No.697, Ling Shi Road,
ShangHai 200072, China
Tel: +86 21 3661 8055 Fax: +86 21 6628 3031

■ Japan

United Biomech Japan Inc.

Ginyo Bldg 4th floor, 2-9-40 Kitasaiwai, Nishi-Ku
Yokohama City, Kanagawa, 220-0004, Japan
Tel: +81 45 620 0741 Fax: +81 45 620 0742

■ USA

UOC USA Inc.

20, Fairbanks, Suite 173, Irvine 92618, CA
Tel: +1 949 328 3366 Fax: +1 949 328 3367

■ EU Representative

mdi Europa GmbH

Langenhagener Strasse 71, Langenhagen 30855, Germany
Tel: +49 511 3908 9530 Fax: +49 511 3908 9539

■ Europe

UOC (Suisse) SA

Avenue Général Guisan 60A, Pully 1009, Switzerland
Tel: +41 21 634 70 70 Fax: +41 21 634 70 76

UOC (France)

21, Rue de la Ravinelle, Nancy 54000, France
Tel: +33 3 83 23 39 72 Fax: +33 3 83 23 39 10



www.uoc.com.tw