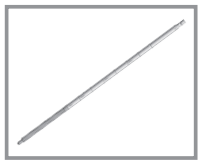
United®
Orthopedic Corporation

U2 PSA™ Revision Knee

Surgical Protocol

Table of Contents

1. Straight Stem Reamer
C/N varies by size



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.

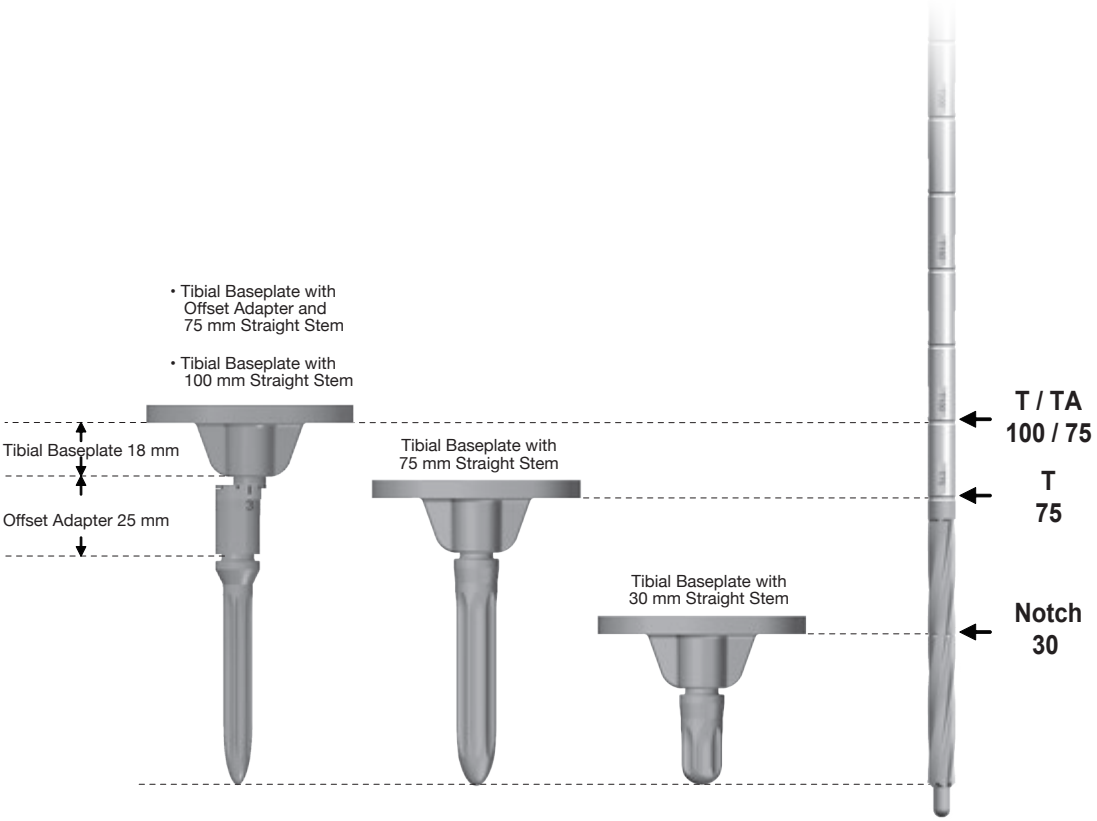
2 Tibial Preparation

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** [1], if necessary.

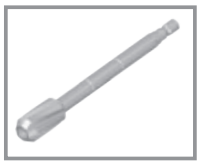
2. Progressively enlarge the tibial intramedullary canal in 1 mm increments with the **Straight Stem Reamer** [1] until proper canal diameter or cortical bone is achieved.

Note: The length of the Tibial Baseplate body is 18 mm and the Offset Adaptor is 25 mm.



2. Reamer Guide Rod
C/N varies by size

3. Boss Reamer
9403-3300

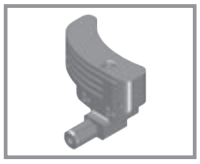


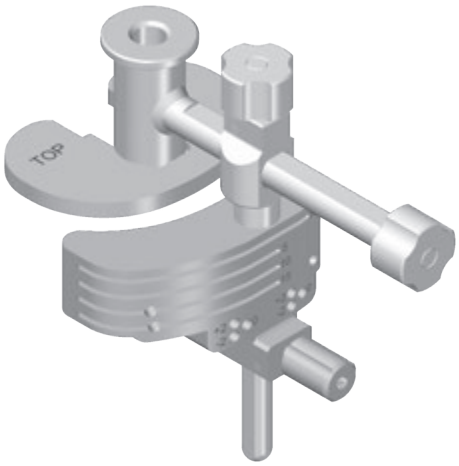
3. Ream to the desired depth of stem or to a length of fixation preferred for tibial alignment. Then attach the **Reamer Guide Rod** [2], which the size corresponds to the last reamer used, to the **Boss Reamer** [3]. Reaming until depth reaches to the laser mark “T” on the boss reamer. The boss reaming process would not be necessary if the last used reamer is larger than 16 mm.

5. IM Guide Collar
   9403-2311 S
   9403-2313 M
   9403-2315 L

6. Tibial IM Alignment Guide
   9403-2310

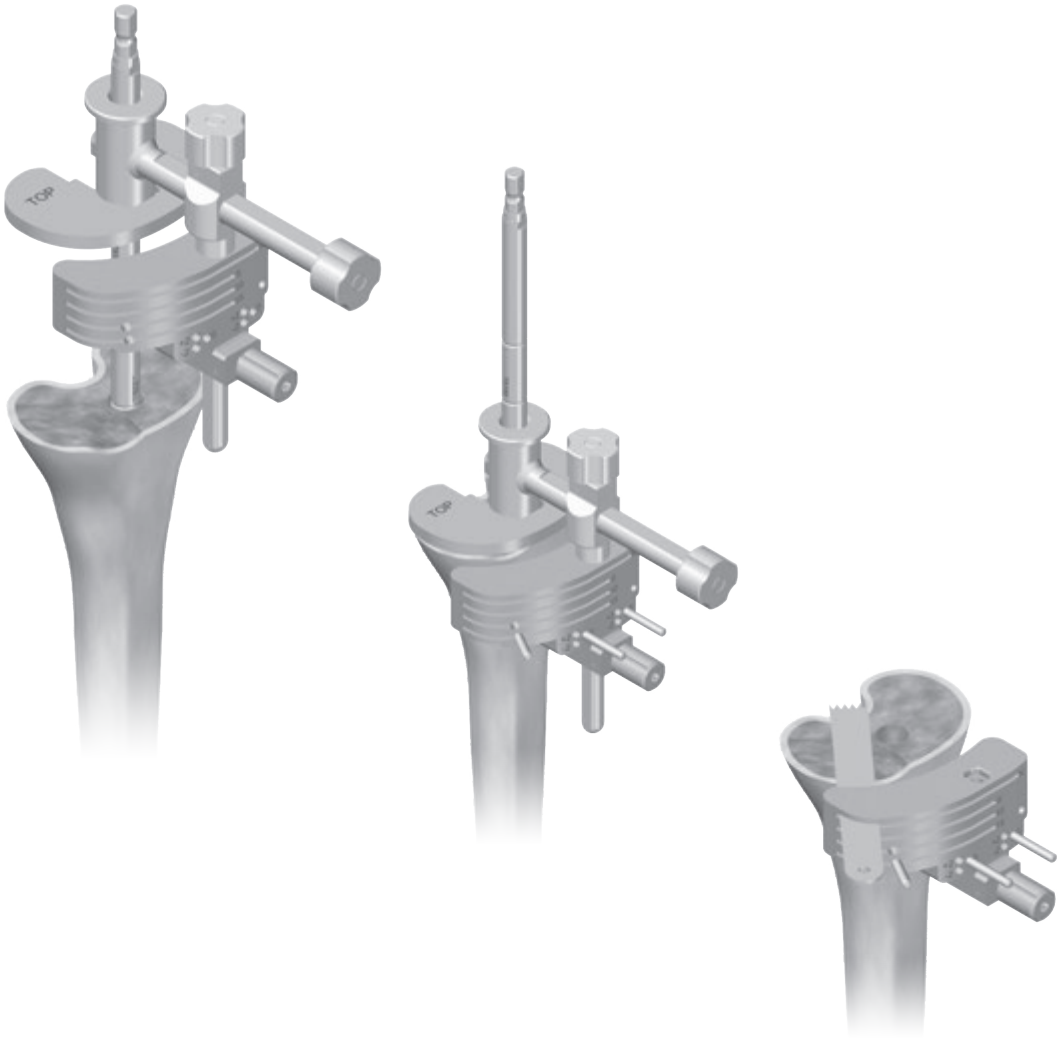
7. Tibial Resection Guide
   9403-2321-RB Left
   9403-2322-RB Right



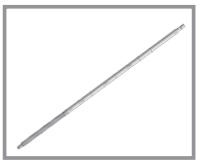


2.2 Proximal Tibial Resection

1. Attach the **IM Guide Collar** [5] to the **Tibial IM Alignment Guide** [6].
2. Slide the **Tibial Resection Guide** [7] onto the **Tibial IM Alignment Guide** [6].



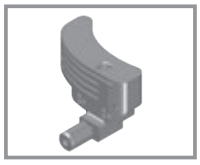
1. Straight Stem Reamer
   C/N varies by size



5. IM Guide Collar
   9403-2311 S
   9403-2313 M
   9403-2315 L

6. Tibial IM Alignment Guide
   9403-2310

7. Tibial Resection Guide
   9403-2321-RB Left
   9403-2322-RB Right



8. Tibial IM Rod
   9403-3201

3. Place the appropriate **Straight Stem Reamer** [1] or the **Tibial IM Rod** [8] in the tibial cavity.

4. Insert the assembly onto the reamer or IM rod until the **IM Guide Collar** [5] contacts the affected tibial plateau. Then tighten the **Tibial IM Alignment Guide** [6] to the reamer.

5. Move the **Tibial Resection Guide** [7] until it touches the guide collar and against the anterior tibia, then secure it in the position by tightening the bolt.

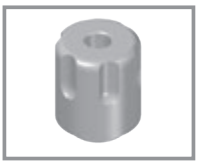
6. Pin the resection guide through the central holes marked 0 will give a 2 mm clean cut when N slot is chosen.

7. +2 or -2 mm resection holes allow the resection guide to be shifted for additional adjustments.

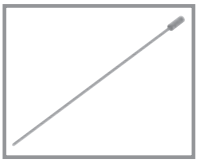
8. Tibial Sizing Template
C/N varies by size

9. Tibial Sizing Template Handle
9403-1203

10. Tibial Neutral Bushing
9403-5315



11. Alignment Rod
9403-2202



2.3 Non Offset Tibial Preparation

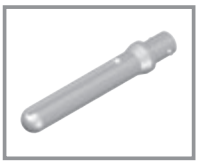
2.3.1 Sizing and Placement

1. Select the proper size **Tibial Sizing Template** [8] that provides desired tibial coverage and attach it to the **Tibial Sizing Template Handle** [9].

2. Place the assembly over the reamer or the IM rod to assess the A-P and M-L size of the resected proximal tibia.

3. Slide the **Tibial Neutral Bushing** [10] onto the reamer or the IM rod and rotate it to ensure adequate tibial coverage. To confirm alignment, insert the **Alignment Rod** [11] into the handle. If adequate coverage and position is not achieved, process to offset procedure, page 7.

12. Straight Stem Trial
C/N varies by size



13. Tibial Baseplate Trial
C/N varies by size

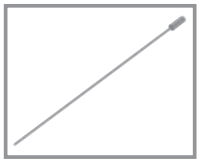
2.3.2 Tibial Trial Assembly

1. The tibial trial is assembled by pushing the appropriate size **Straight Stem Trial** [12] into the **Tibial Baseplate Trial** [13] through the J-hook locking mechanism.

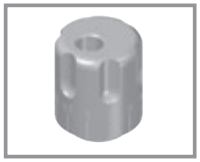
2. Insert the tibial trial assembly into the tibial canal.

8. Tibial Sizing Template
C/N varies by size

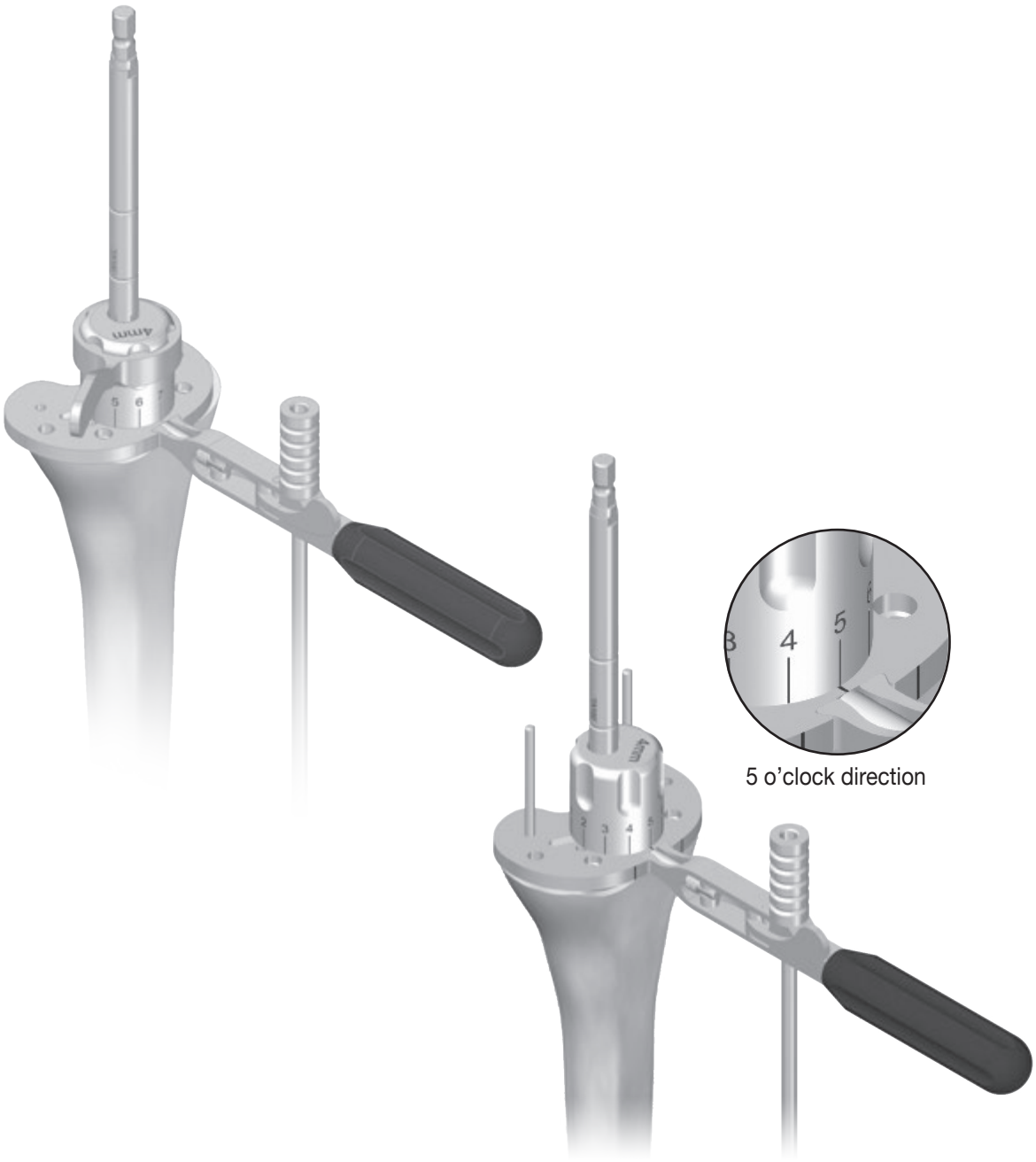
11. Alignment Rod
9403-2202



14. Tibial Offset Bushing
9403-5316 2 mm
9403-5317 4 mm



15. Offset Bushing Wrench
9403-5333



5 o'clock direction

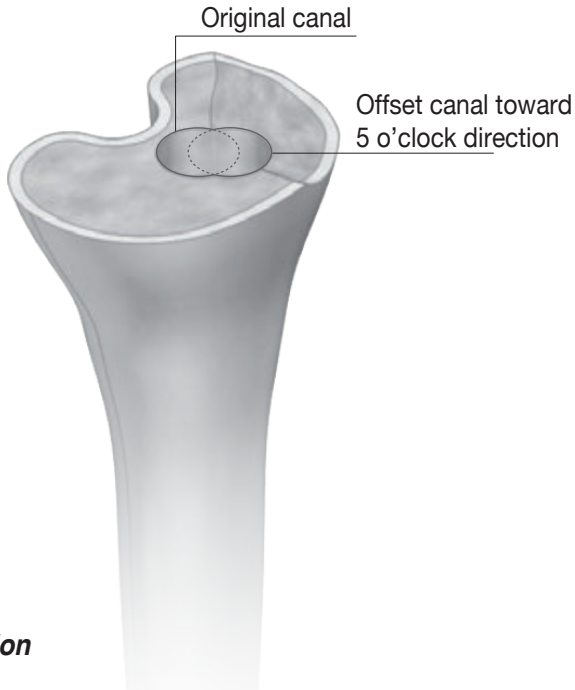
2.4 Offset Tibial Trial Preparation

2.4.1 Offset Sizing and Placement

1. If the desired tibial coverage and adequate position was not achieved, offset procedure would be necessary.

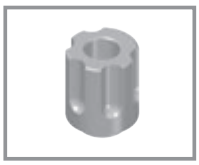
2. Insert the 2 mm or 4 mm **Tibial Offset Bushing** [14] into the reamer and use the **Offset Bushing Wrench** [15] to rotate it until the proper tibial coverage is achieved. Use the **Alignment Rod** [11] to confirm alignment.

3. Make a note of the number on the offset bushing that lines to the laser mark on the **Tibial Sizing Template** [8]. (eg. 5 o'clock position shown above)



8. Tibial Sizing Template
C/N varies by size

51. Tibial Stem Drill Guide
9403-2414



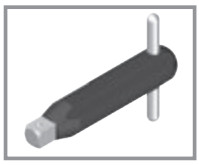
52. Tibial Stem Drill
9403-3314

2.4.2 Offset Tibial Canal Preparation

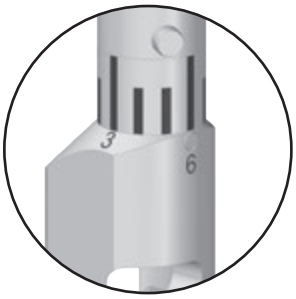
1. Fix the **Tibial Sizing Template** [8] with two pins. Assemble **Tibial Stem Drill Guide** [51] to the **Tibial Sizing Template** [8]. Prepare the offset canal by applying **Tibial Stem Drill** [52] until the stopper attaches the drill guide.

17. Screw Driver Adaptor
9403-5331-RA

18. Driver Handle
9403-1302-RA



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



2.4.3 Offset Tibial Trial Assembly

1. Assemble the **Screw Driver Adaptor** [17] to **Driver Handle** [18], and utilize it to loosen the **Offset Adaptor Trial** [19].

2. Align the node on the adaptor trial to the number that was predetermined then tighten the **Offset Adaptor Trial** [19].

12. Straight Stem Trial
C/N varies by size

13. Tibial Baseplate Trial
C/N varies by size

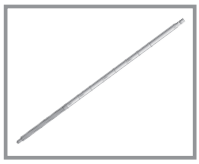
19. Offset Adaptor Trial
2903-2010 2 mm
2903-2020 4 mm
2903-2030 6 mm

3. Affix the **Offset Adaptor Trial** [19] to the **Tibial Baseplate Trial** [13] through the J-hook, and secure the correct laser mark on the offset adaptor align to the line marking on the baseplate trial.

4. Then attach the trial assembly with the appropriate **Straight Stem Trial** [12].

5. Insert the tibial trial assembly into the tibial canal.

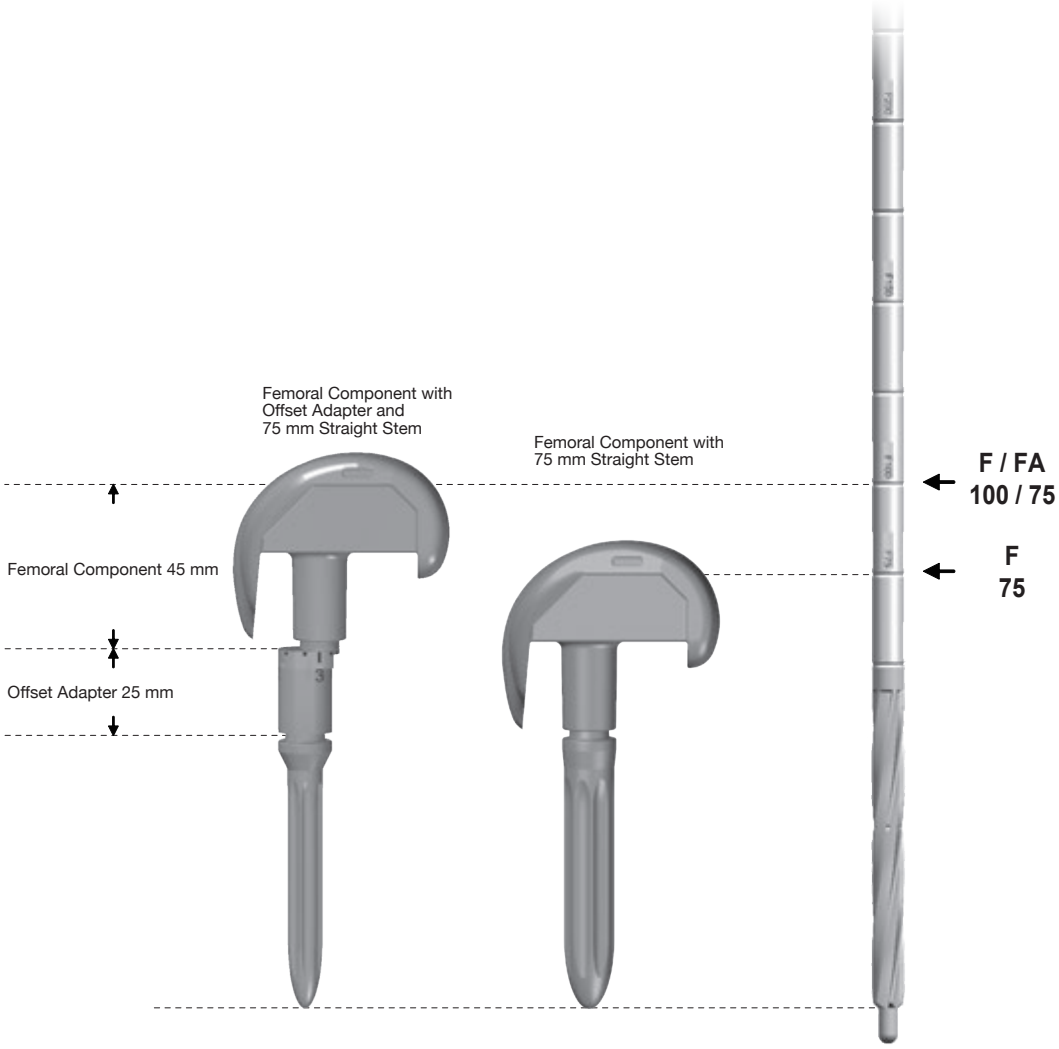
1. Straight Stem Reamer
C/N varies by size



3 Femoral Preparation

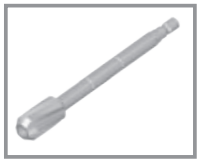
3.1 Femoral Canal Preparation

1. Start to ream the femoral canal from the smallest diameter **Straight Stem Reamer** [1] 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.

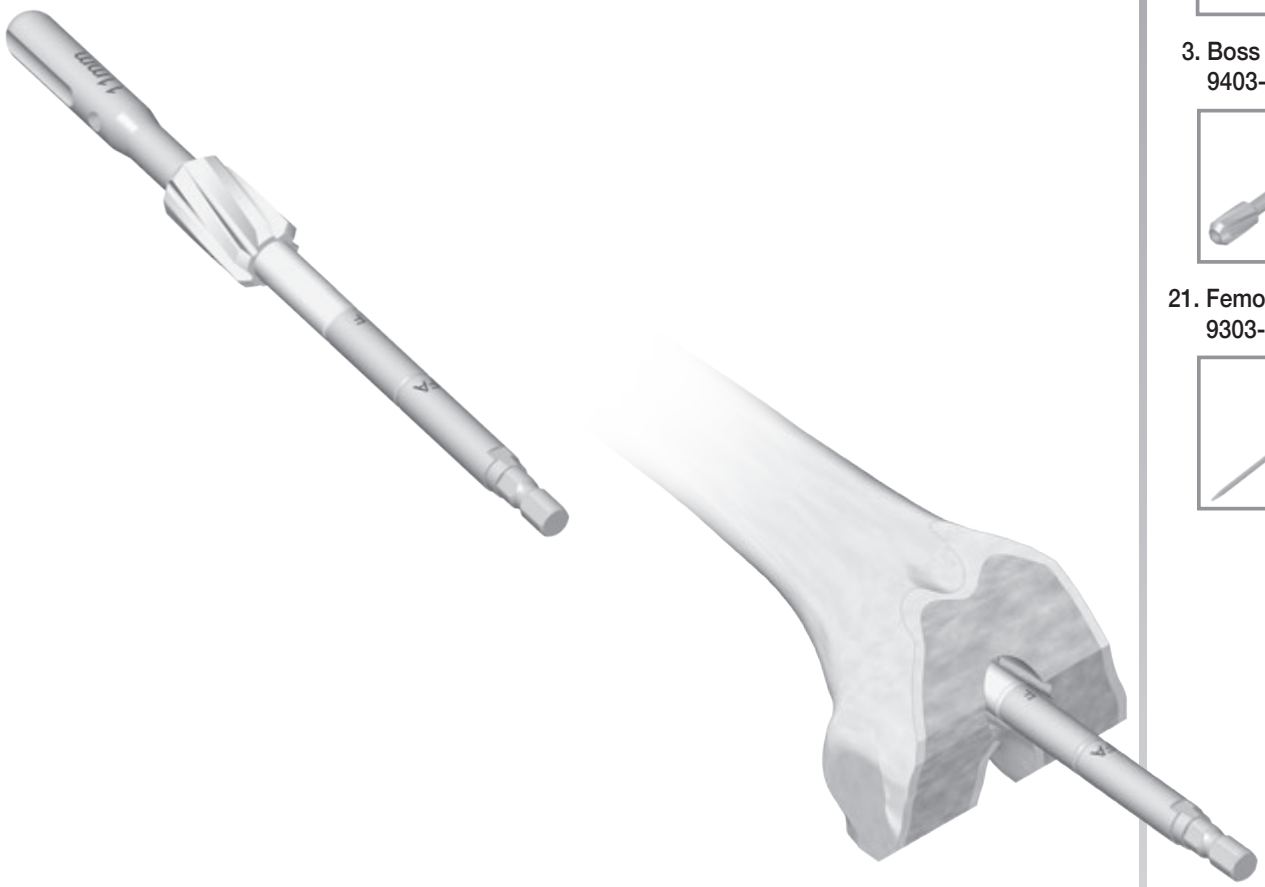


2. Reamer Guide Rod
C/N varies by size

3. Boss Reamer
9403-3300



21. Femoral IM Rod
9303-3210

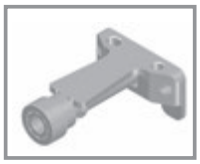


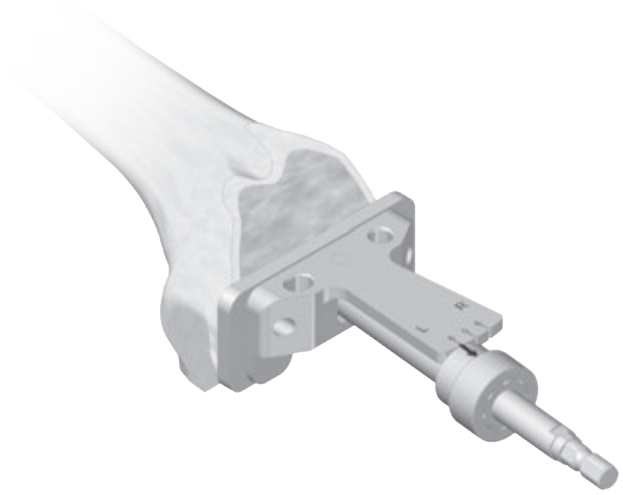
3. Attach the **Reamer Guide Rod** [2], which the size corresponds to the last reamer used, to the **Boss Reamer** [3]. Then ream the femoral canal to the depth until the indicator mark “F” on the **Boss Reamer** [3] line up with the entry hole. The boss reaming process would not be necessary if the last used reamer is larger than 16 mm.

4. As the reaming process is completed, place the appropriate reamer or the **Femoral IM Rod** [21] in the femoral cavity.

22. Distal Femoral Plate
9303-2701 S
9303-2703 M
9303-2705 L

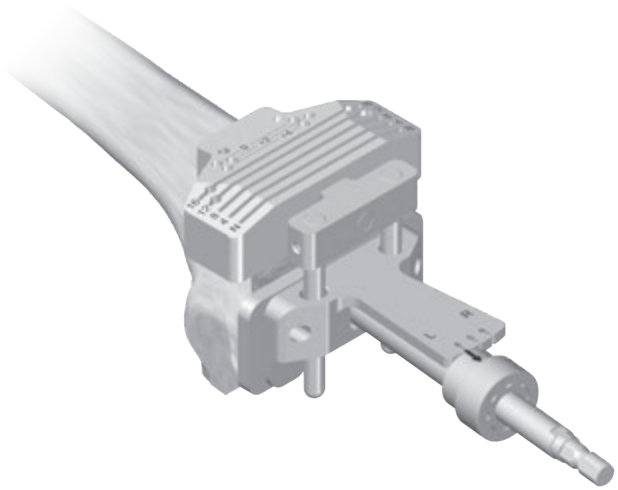
23. Femoral IM Alignment Guide
9303-2706

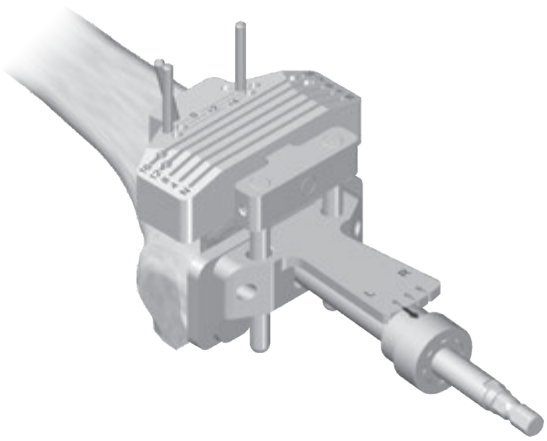


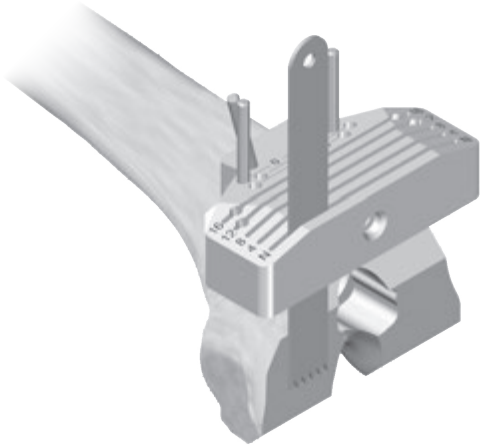


3.2 Distal Femoral Resection

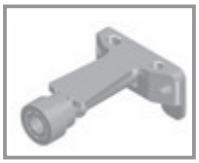
1. Attach the **Distal Femoral Plate** [22] to the **Femoral IM Alignment Guide** [23] and slide the assembly onto the reamer or the IM rod until it contacts to the distal femur. U2 PSA knee **Femoral IM Alignment Guide** [23] offers a fixed 6 degrees valgus angle.





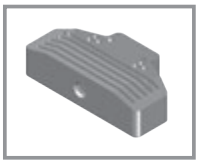


23. Femoral IM Alignment Guide 9303-2706



24. Distal Femoral Alignment Guide 9303-2707

25. Distal Femoral Resection Guide 9303-2708-RB



26. Pin 9303-3207

2. Attach the **Distal Femoral Alignment Guide** [24] to the **Distal Femoral Resection Guide** [25], and then slide the assembly onto the **Femoral IM Alignment Guide** [23].

3. Use **Pins** [26] to affix the **Distal Femoral Resection Guide** [25]. Then remove the alignment guides assembly from the IM rod or the reamer.

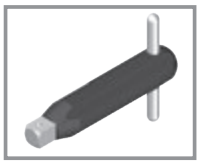
4. A 2mm clean cut will achieve, when resecting through the “N” slot on the **Distal Femoral Resection Guide** [25].

NOTE: If adjustment for the resection is needed, utilize the +2 or +4 holes to relocate the **Distal Femoral Resection Guide** [25] accordingly.

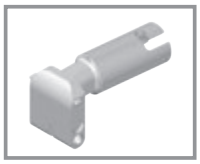
12. Straight Stem Trial
C/N varies by size

17. Screw Driver Adaptor
9403-5331-RA

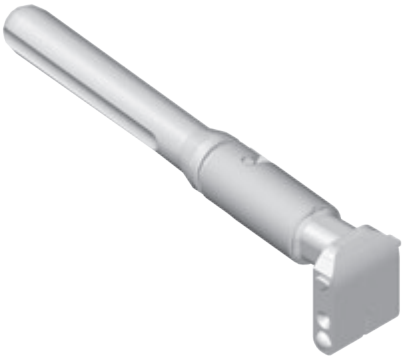
18. Driver Handle
9403-1302-RA

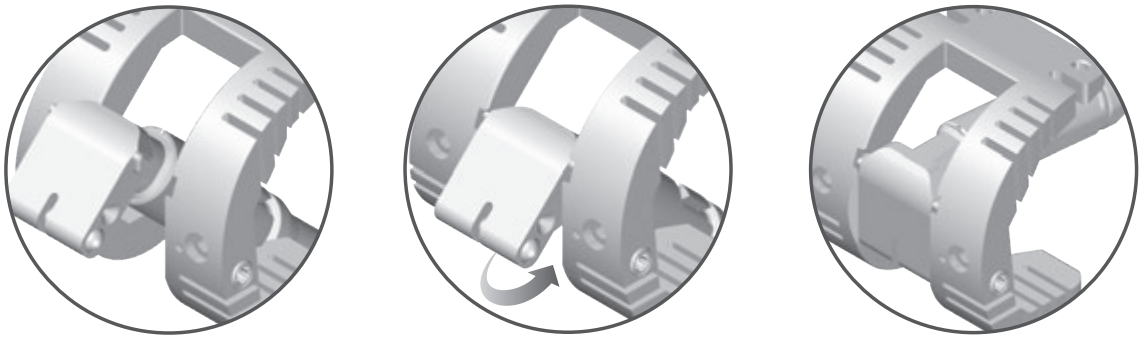


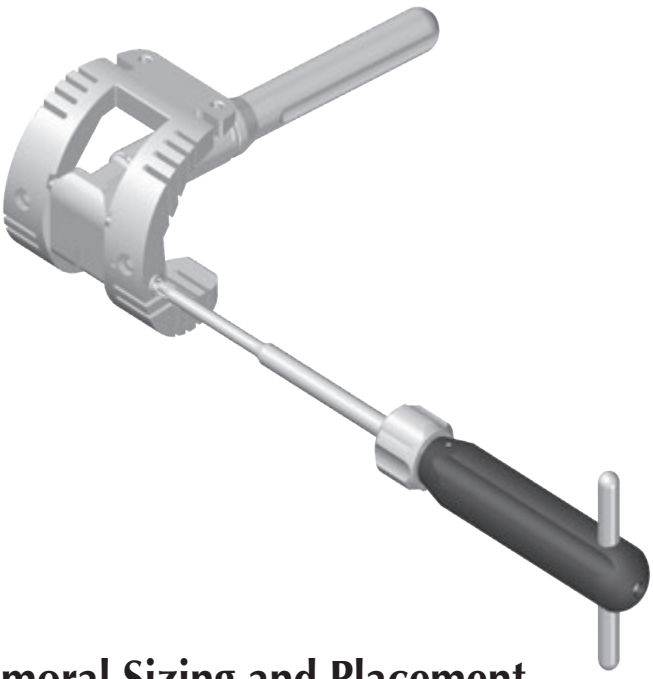
27. Femoral Valgus Adaptor
9303-5333-RA Left
9303-5334-RA Right



28. Femoral Sizing Template
C/N varies by size







3.3 Non Offset Femoral Sizing and Placement

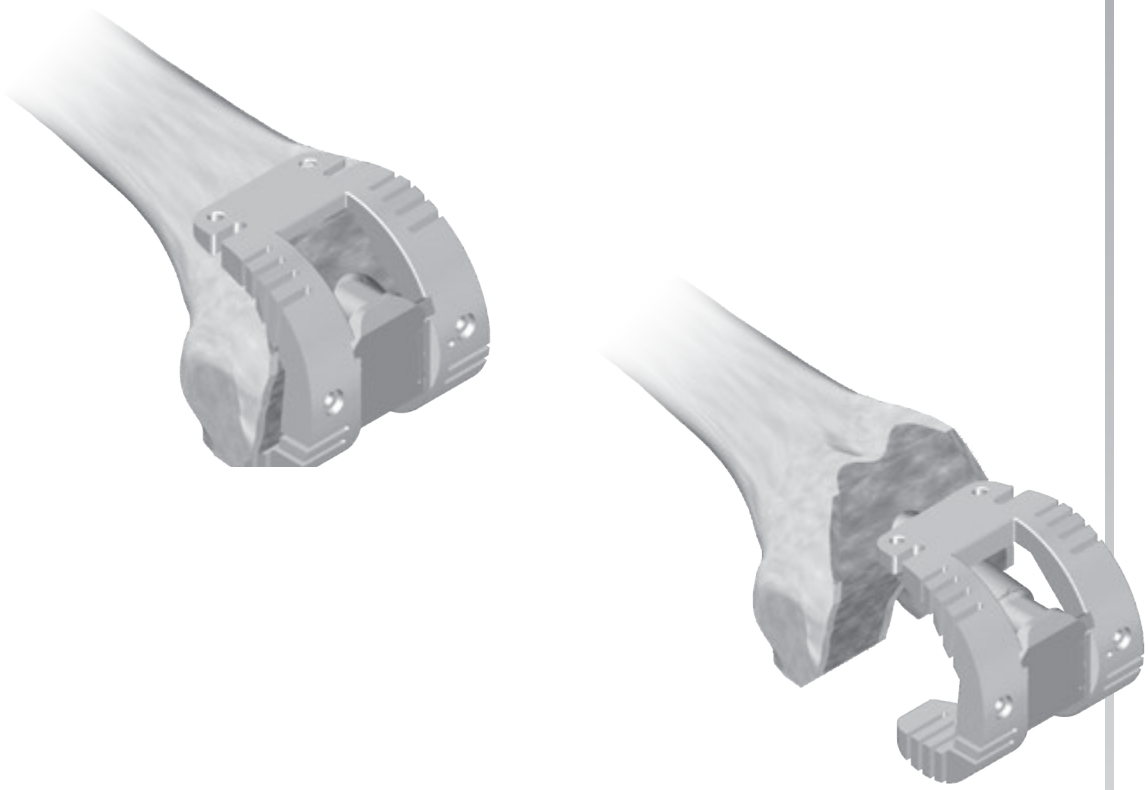
3.3.1 Femoral Sizing Preparation

1. Assemble the **Femoral Valgus Adaptor** [27] to the appropriate size **Straight Stem Trial** [12].

2. Insert the **Femoral Valgus Adaptor** [27] onto the **Femoral Sizing Template** [28] and depress it until it is fully engaged to the sizing template.

3. Utilize the **Screw Driver Adaptor** [17] that assemble to the **Driver Handle** [18], to tighten the adaptor to the sizing template.

Note: If the adaptor cannot be pressed down to the position, check the set screw on the side of the sizing template and release it.



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

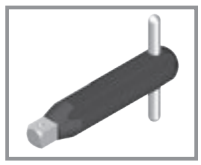
2. Reamer Guide Rod
C/N varies by size

12. Straight Stem Trial
C/N varies by size

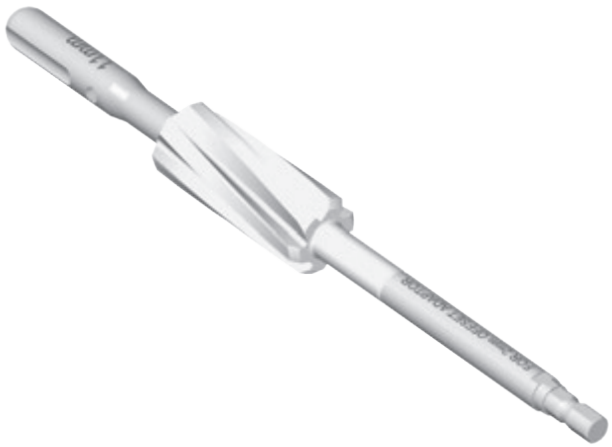
16. Offset Reamer
9403-3302 2 mm
9403-3304 4 mm

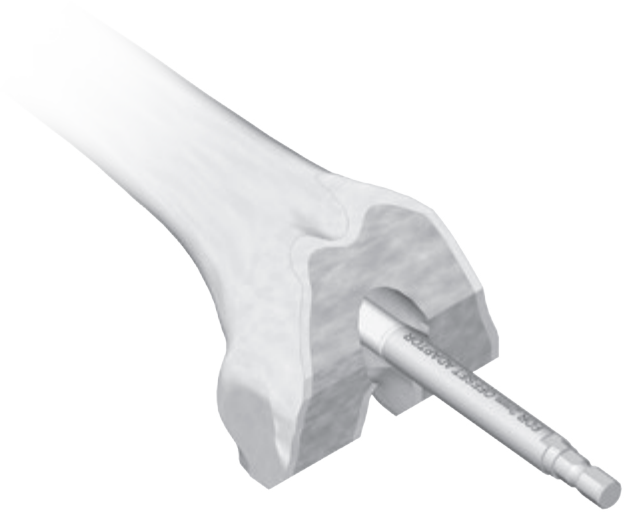
17. Screw Driver
Adaptor
9403-5331-RA

18. Driver Handle
9403-1302-RA



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





3.4 Offset Femoral Sizing and Placement

1. If the optimal A-P and M-L position of the **Femoral Sizing Template** [28] did not achieve, remove the femoral sizing assembly from the femur.

2. Attach the appropriate size **Reamer Guide Rod** [2] to the **Offset Reamer** [16] and then ream the femoral canal to the depth until the groove on the **Offset Reamer** [16] line up with the entry hole.

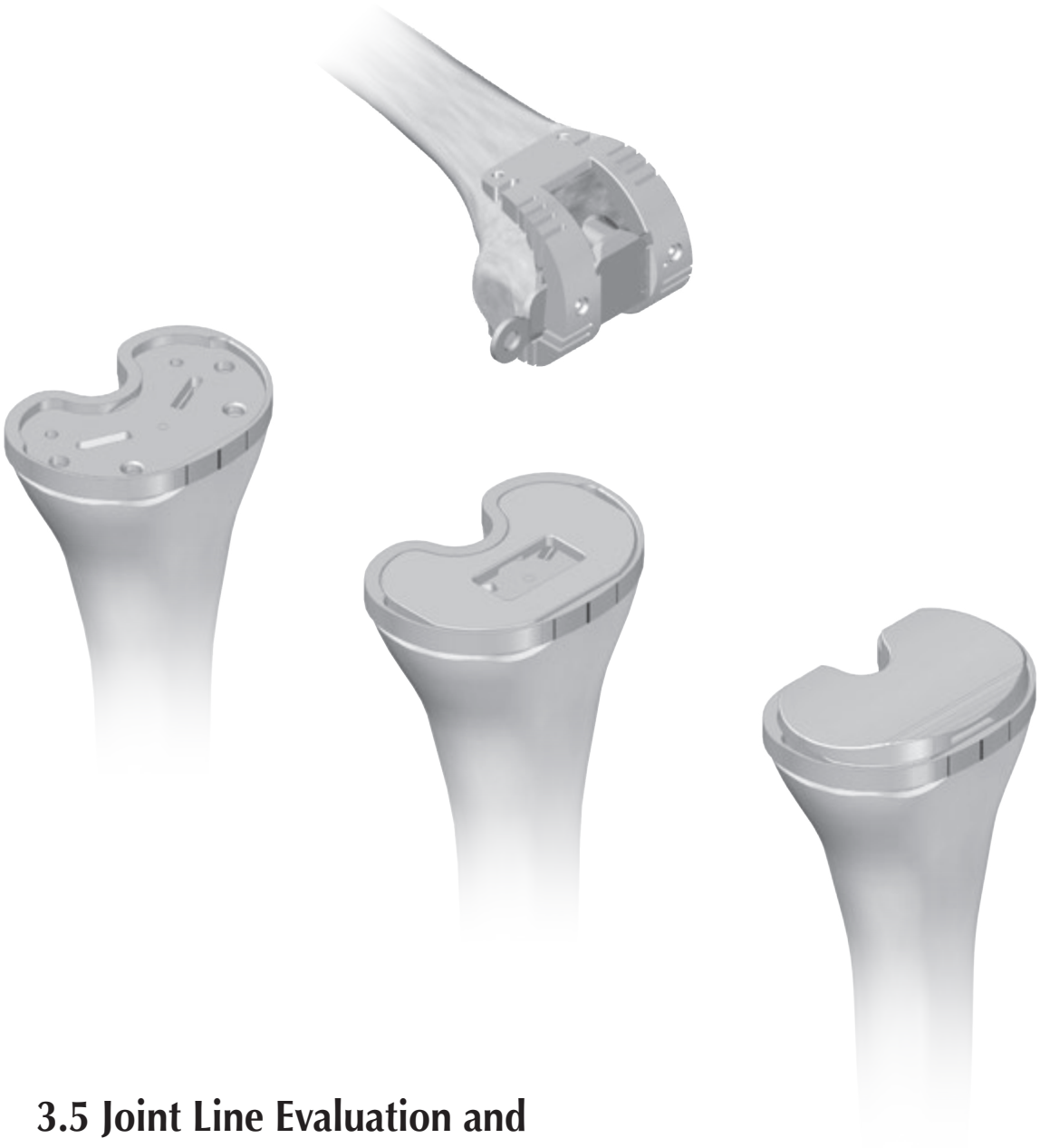
3. Assemble the **Screw Driver Adaptor** [17] to **Driver Handle** [18], and utilize it to loosen the appropriate size **Offset Adaptor Trial** [19].

4. Align the node on the **Offset Adaptor Trial** [19] to a desired number of a clock position whereon, and then tighten the **Offset Adaptor Trial** [19].

5. Affix the **Offset Adaptor Trial** [19] to the **Femoral Valgus Adaptor** [27] through the J-hook, then attach the trial assembly with the appropriate **Straight Stem Trial** [12].

6. Insert the femoral trial assembly into the femoral canal to confirm the position.

7. Repeat step 3-6 to match an ideal offset direction.



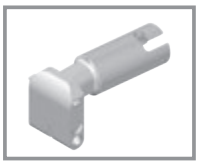
3.5 Joint Line Evaluation and Flexion/Extension Gap Balancing

1. Once A-P and M-L position of the femoral sizing assembly has determined,leaving femoral sizing assembly in the femur, and placing the proper size **Tibial Spacer Base** [29] on the tibial baseplate assembly with the appropriate thickness **Tibial Spacer** [30]**.**

2. Perform the joint line evaluation. If the femoral sizing assembly did not contact to the distal end of the femur during the evaluation, the **Femoral Distal Spacer** [31] can be utilized as temporary augment.

3. After restoring appropriate joint line, establish stability in extension and flexion gap.

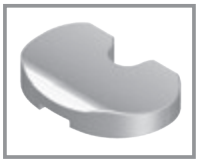
27. Femoral Valgus Adaptor
    9303-5333-RA Left
    9303-5334-RA Right



28. Femoral Sizing Template
    C/N varies by size

29. Tibial Spacer Base
    C/N varies by size

30. Tibial Spacer
    C/N varies by size

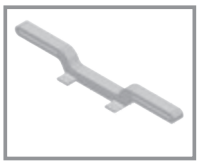


31. Femoral Distal Spacer
    9303-5202 2 mm
    9303-5204 4 mm
    9303-5206 6 mm
    9303-5208 8 mm

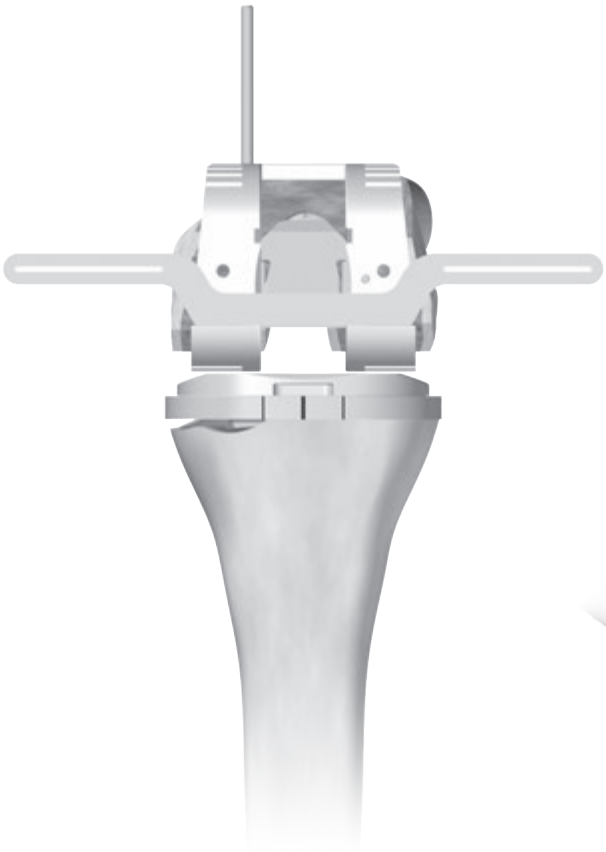
26. Pin
9303-3207

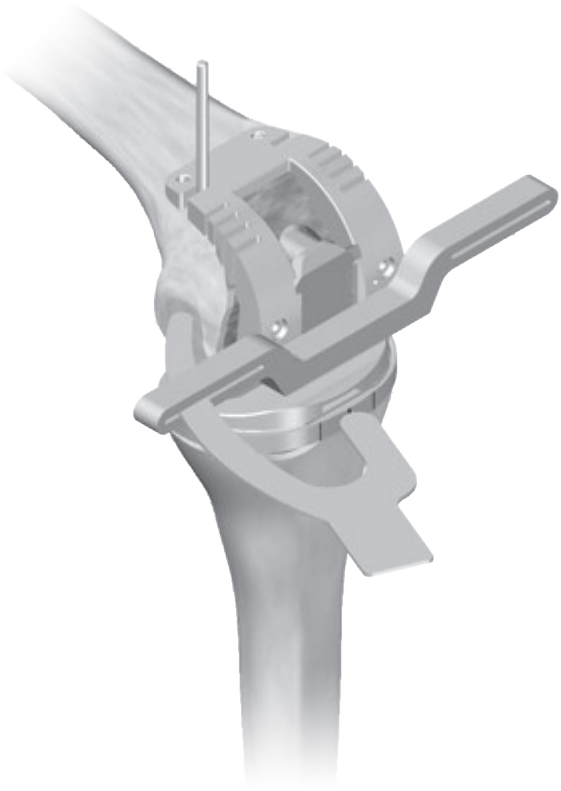
28. Femoral Sizing Template
C/N varies by size

32. Femoral Rotation Guide
9303-5315



33. Lower Point Gauge
9301-2251





3.6 Establish Femoral Rotation

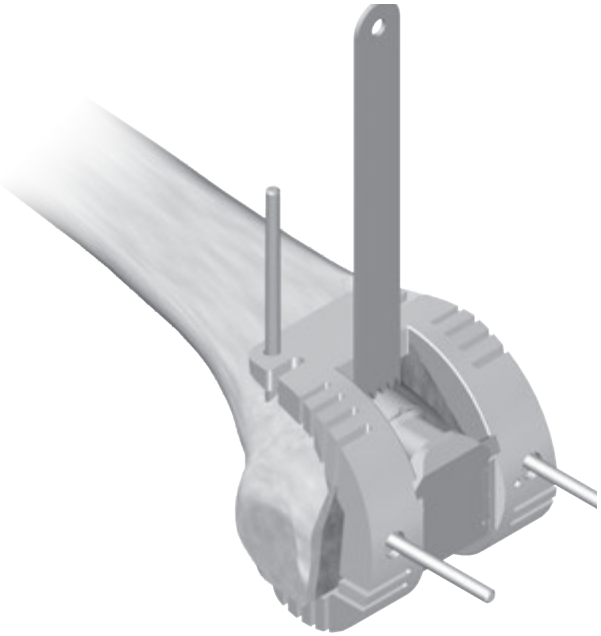
1. Once the joint line is being determined, fix the sizing template with a **Pin** [26] in the upper slot.

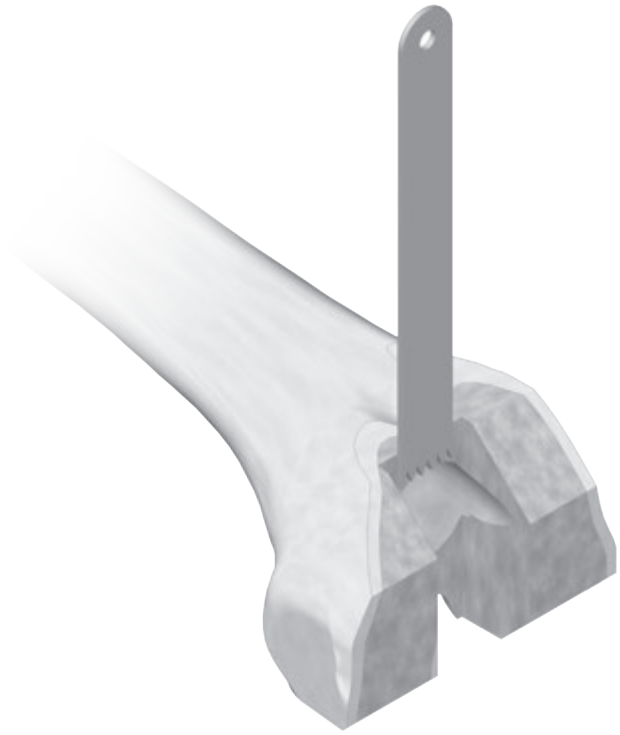
2. Attach the **Femoral Rotation Guide** [32] to the **Femoral Sizing Template** [28] by inserting the rotation guide into the slots on the sizing template.

3. To achieve the proper rotation, utilize the **Lower Point Gauge** [33] to line with the transepicondylar axis.

4. If the sizing template is in proper alignment, and in proper rotation, fix it in place with two **Pins** [26] in the upper two holes.

5. Once the joint line and femoral rotation is confirmed, additional bone resection is performed if needed. The augment space is prepared through 4/8/12/16 resection slot on the **Femoral Sizing Template** [28].





3.7 Femoral Box Preparation

1. Use the saw blade to mark the femoral box location and then remove the femoral sizing assembly and pins.

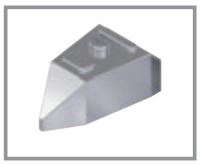
2. Then complete the resection.

12. Straight Stem Trial
C/N varies by size

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

34. Femoral Posterior Augment Trial
C/N varies by size

35. Femoral Distal Augment Trial
C/N varies by size



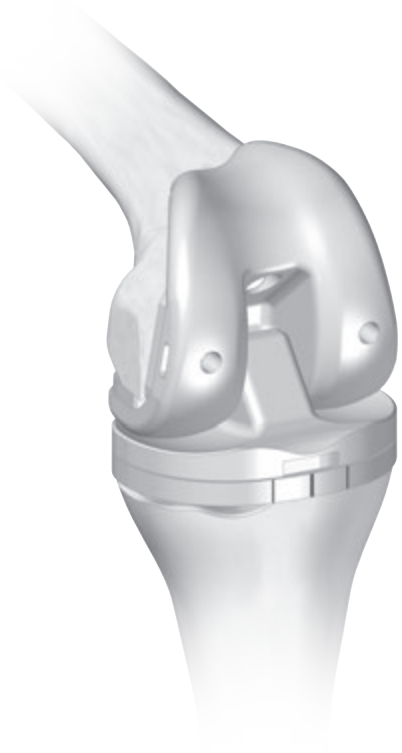
36. Femoral Trial
C/N varies by size

4 Final Trial Reduction

4.1 Femoral Trial Preparation

1. Attach the appropriate **Femoral Posterior Augment Trial** [34], and/or the **Femoral Distal Augment Trial** [35] to the proper **Femoral Trial** [36] by snapping into place.

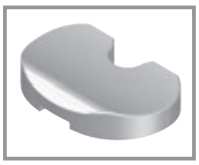
2. Assemble the **Femoral Trial** [36] to the **Straight Stem Trial** [12] and the **Offset Adaptor Trial** [19], if desired.



13. Tibial Baseplate Trial
C/N varies by size

29. Tibial Spacer Base
C/N varies by size

30. Tibial Spacer
C/N varies by size



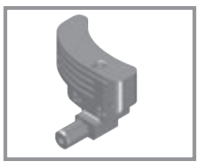
37. Tibial Insert Trial
C/N varies by size

3. Remove **Tibial Spacer Base** [29] and **Tibial Spacer** [30] from the **Tibial Baseplate Trial** [13].

4. With the tibial trial assembly in the tibia and the femoral trial assembly in the femur, insert the appropriate size **Tibial Insert Trial** [37].

5. Perform a trial reduction and mark the rotation on the tibia utilizing the three anterior laser marks on the **Tibial Baseplate Trial** [13].

7. Tibial Resection Guide
9403-2321-RB Left
9403-2322-RB Right

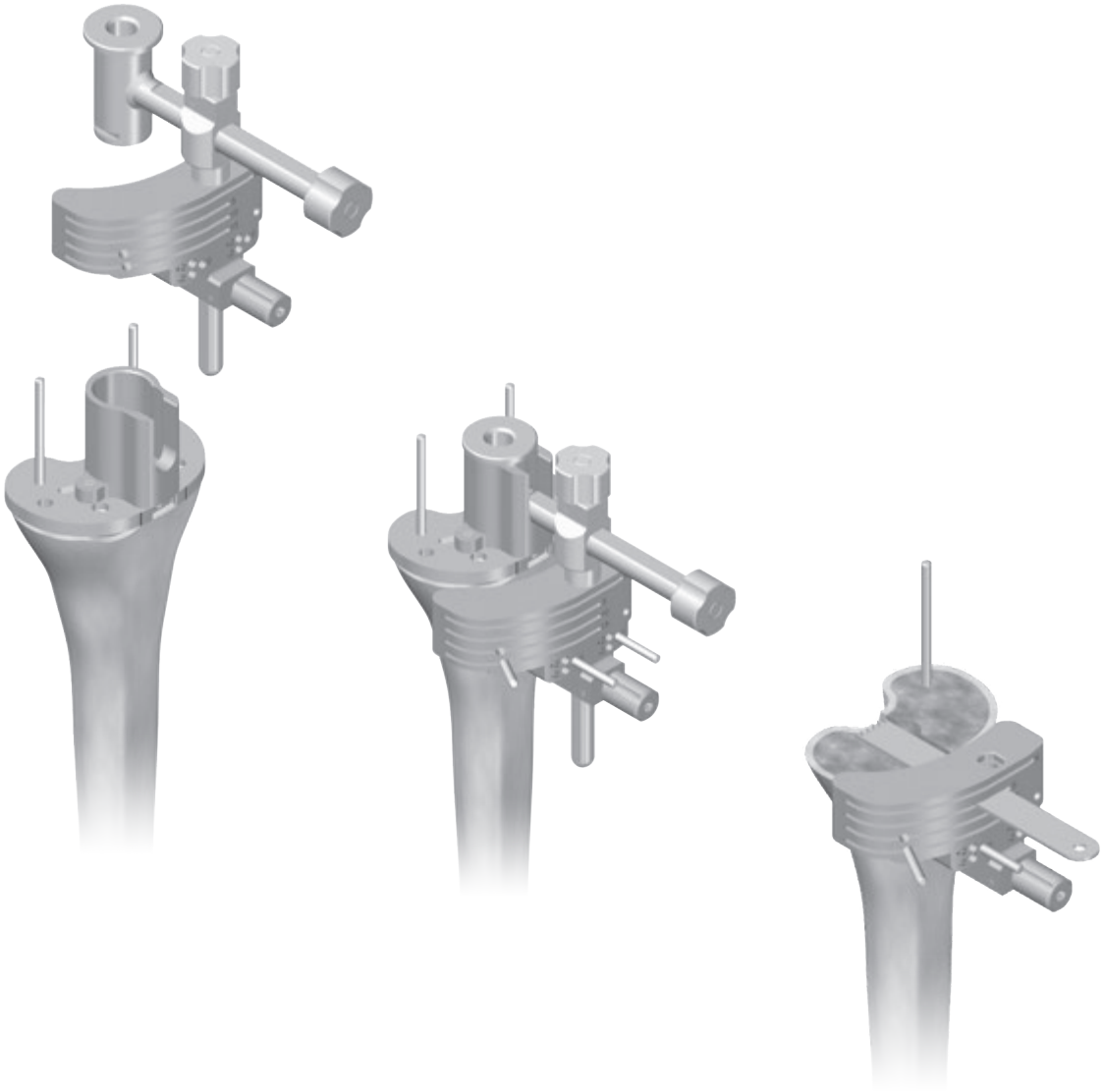


8. Tibial Sizing Template
C/N varies by size

13. Tibial Baseplate Trial
C/N varies by size

26. Pin
9303-3207

38. Tibial Alignment Sleeve
9403-2316



4.2 Final Tibial Preparation

4.2.1 Tibial Augment Resection

1. If the tibial augments are needed, use two **Pins** [26] through the **Tibial Baseplate Trial** [13] and pin the baseplate trial into the proximal tibia to lock the rotational orientation.

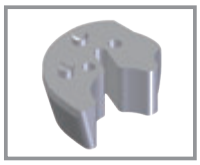
2. Remove the tibial trial, and place the proper **Tibial Sizing Template** [8] on the tibial plateau through the pins. Make sure the laser marks on the sizing template align to the marks on the anterior tibia. Then attach the **Tibial Alignment Sleeve** [38] on the top of the template.

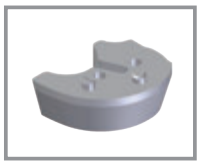
3. Reposition the tibial resection assembly and fix it with two **Pins** [26] to the anterior tibia.

4. Remove the template/sleeve/alignment guide and leave the **Tibial Resection Guide** [7] in place and make the appropriate resections. 5, 10, and 15 mm tibial augments are available for bone lost cases.

8. Tibial Sizing Template
C/N varies by size

39. Tibial Augment Trials
C/N varies by size





40. Tibial Punch
9403-6011 S
9403-6021 M
9403-6031 L

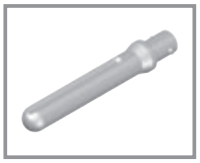
41. Tibial Punch Handle
9403-1101-RC

4.2.2 Tibial Fin Punching

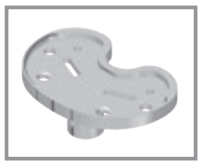
1. Attach the appropriate **Tibial Augments Trials** [39] to the distal aspect of the **Tibial Sizing Template** [8], if necessary. Then replace the template assembly to the tibial plateau.

2. Assemble the proper size **Tibial Punch** [40] to the **Tibial Punch Handle** [41], insert the punch into the proximal tibial template and impact until fully seated.

12. Straight Stem
Trial
C/N varies by size



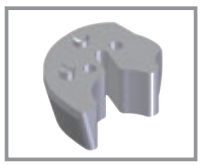
13. Tibial Baseplate
Trial
C/N varies by size

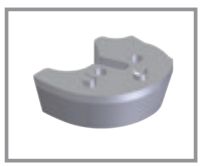


19. Offset Adaptor
Trial
2903-2010 2 mm
2903-2020 4 mm
2903-2030 6 mm

37. Tibial Insert Trial
C/N varies by size

39. Tibial Augment
Trial
C/N varies by size





4.2.3 Final Trial Reduction

1. Assemble the appropriate **Tibial Baseplate Trial** [13], **Straight Stem Trial** [12], **Tibial Augment Trial** [39], and/or **Offset Adaptor Trial** [19] for which the tibia has been prepared.

2. Insert the final assembly into the tibia and place the proper **Tibial Insert Trial** [37].

3. Check the range of motion, joint stability and any necessary soft tissue releases.

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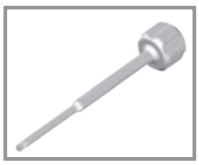
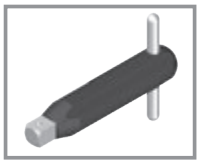
17. Screw Driver Adaptor 9403-5331-RA



18. Driver Handle 9403-1302-RA

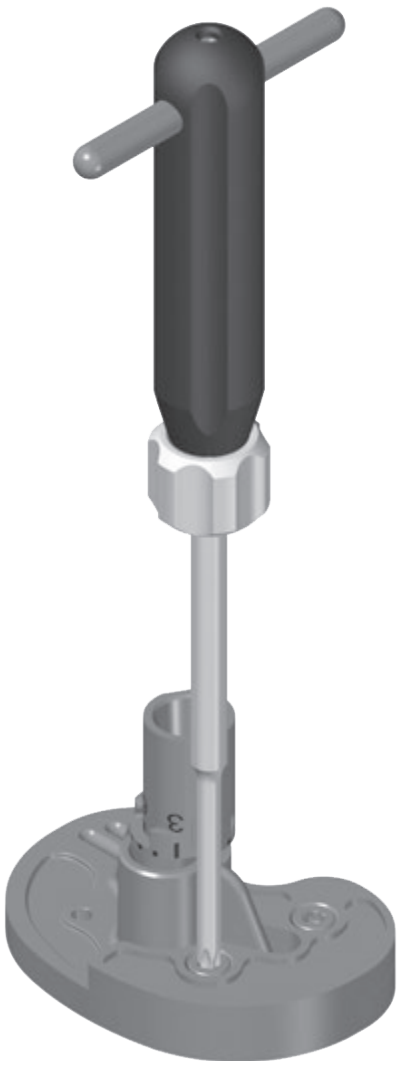


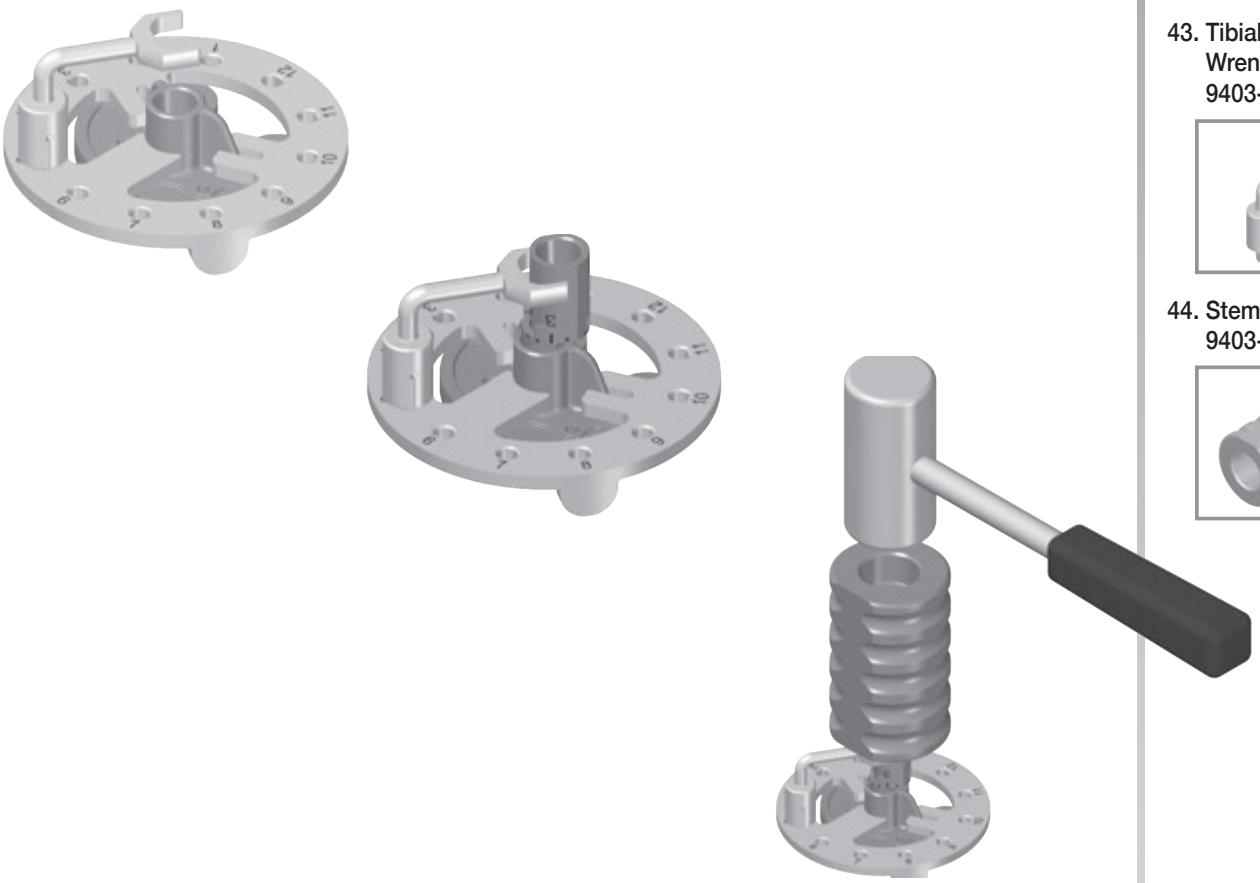
5 Implantation

5.1 Tibial Component Preparation

1. Using the tibial trials as the guide, screw the appropriate tibial augment(s) into the distal aspect of the tibial baseplate implant with the assembly of the **Screw Driver Adaptor** [17] and **Driver Handle** [18].

2. Secure the augments by applying moderate torque to tighten the screw.





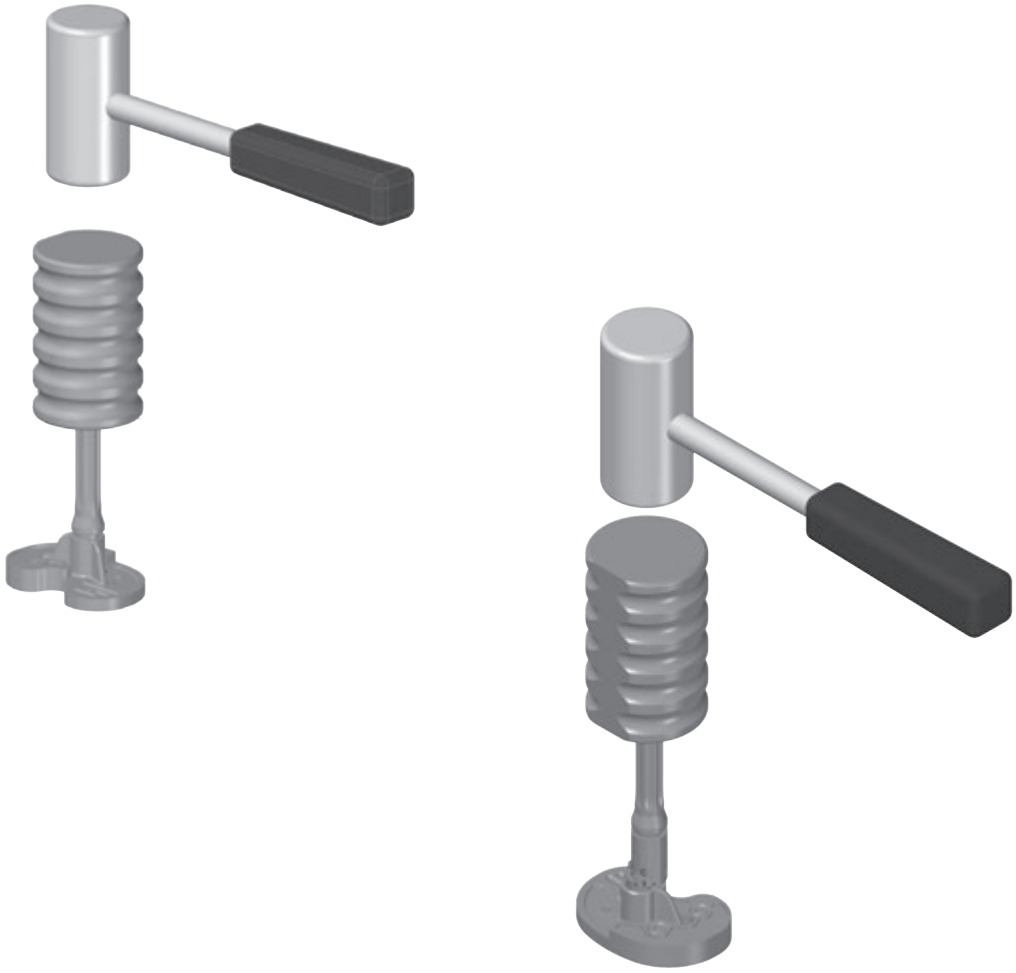
42. Tibial Offset Fixture
9403-5320

43. Tibial Offset Wrench
9403-5322

44. Stem Impactor
9403-5340

3. If the Offset Stem Adaptor is needed, set the **Tibial Offset Fixture** [42] on the tibial baseplate implant and hold the adaptor with **Tibial Offset Wrench** [43], which is positioned in the number that is determined during the trialing. Place the **Stem Impactor** [44] on the female end of the adaptor, and impact on the impactor solidly to ensure the taper lock is properly engaged between the adaptor and the baseplate implant.

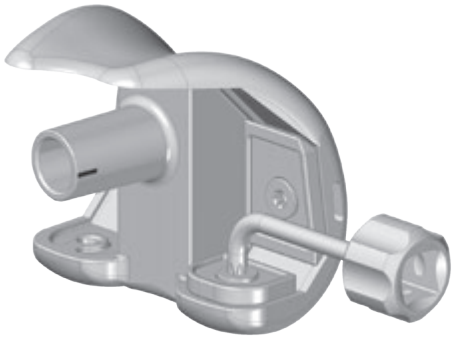
44. Stem Impactor
9403-5340



4. Select the appropriate length and diameter stem that was used for the tibial trial.

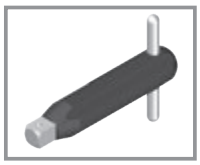
5. Insert the stem extension implant into the offset adaptor and/or the tibial baseplate implant, and protect the stem by placing the **Stem Impactor** [44] on the tip of the stem.

6. Impact on the impactor solidly to ensure the taper lock is properly engaged.

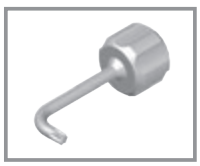


17. Screw Driver Adaptor 9403-5331-RA

18. Driver Handle 9403-1302-RA



45. Screw Driver Adaptor L 9303-5329

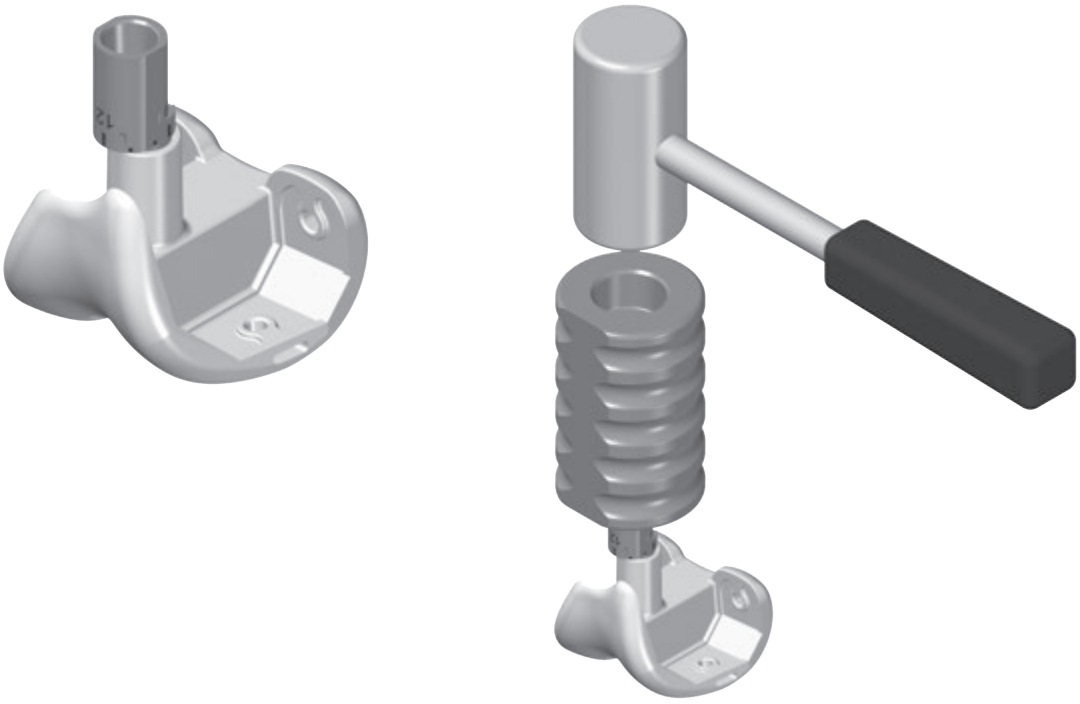


5.2 Femoral Component Preparation

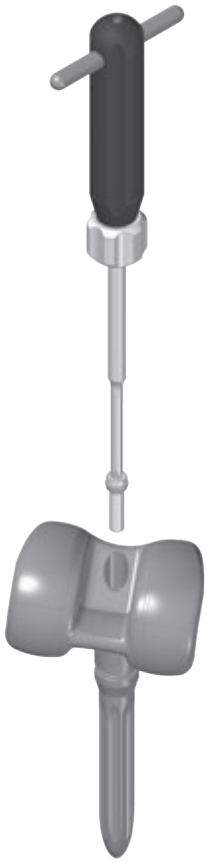
1. Using the femoral trials as the guide, select the appropriate size femoral component implant and stem that was used for the femoral trial.

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** [17]/ **Screw Driver Adaptor L** [45] and **Driver Handle** [18] to secure the augments.

44. Stem Impactor
9403-5340

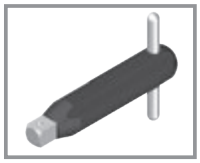


3. If the offset adaptor is needed, use the adaptor trial referenced earlier (obtained previously in the 3.4 Offset Femoral Sizing and Placement section, p.17) and aligns the predetermined clock position on the offset adaptor with the etched line on the posterior boss of the femoral component. Insert the offset adaptor into the femoral implant. Place the **Stem Impactor** [44] on the female end of the adaptor and impact on the impactor solidly to ensure the taper lock is properly engaged.



17. Screw Driver Adaptor 9403-5331-RA

18. Driver Handle 9403-1302-RA



44. Stem Impactor 9403-5340

4. Select the appropriate length and diameter stem that was used for the femoral trial.

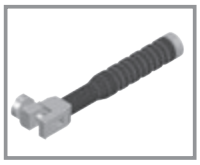
5. Insert the stem extension implant into the offset adaptor and/or femoral component implant, and protect the stem by placing the **Stem Impactor** [44] on the tip of the stem.

6. Impact on the impactor solidly two times to ensure the taper lock is properly engaged.

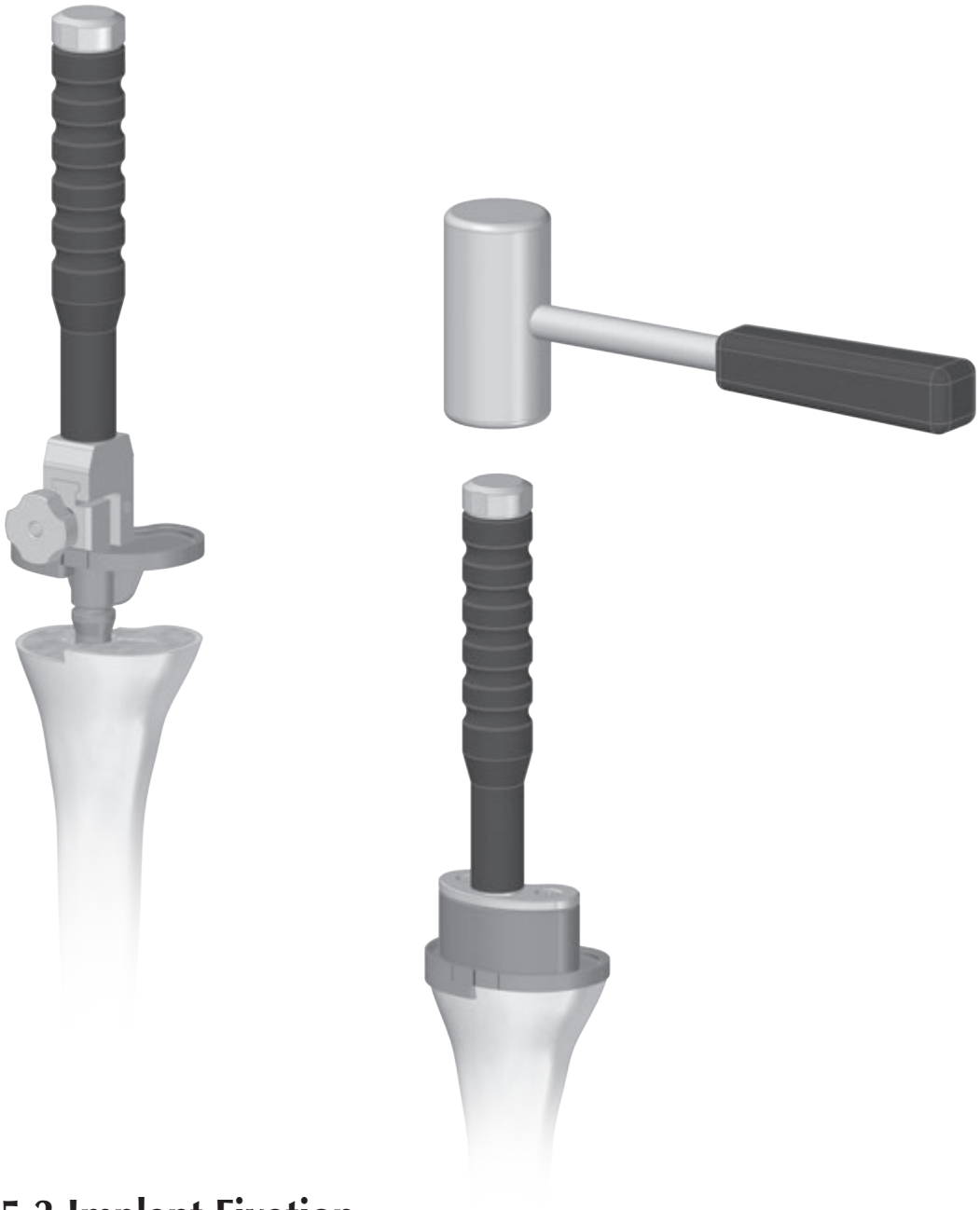
7. After the stem has been impacted into the femoral component, insert the femoral screw into the intercondylar hole.

8. Utilize the assembly of the **Screw Driver Adaptor** [17] and **Driver Handle** [18], then apply moderate torque to tighten the femoral screw to the femoral component and the stem/offset adaptor.

46. Tibial Baseplate Driver
9403-5101-RC



47. Tibial Baseplate Impactor
9403-5102-RF



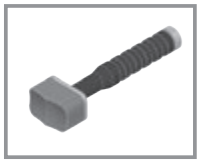
5.3 Implant Fixation

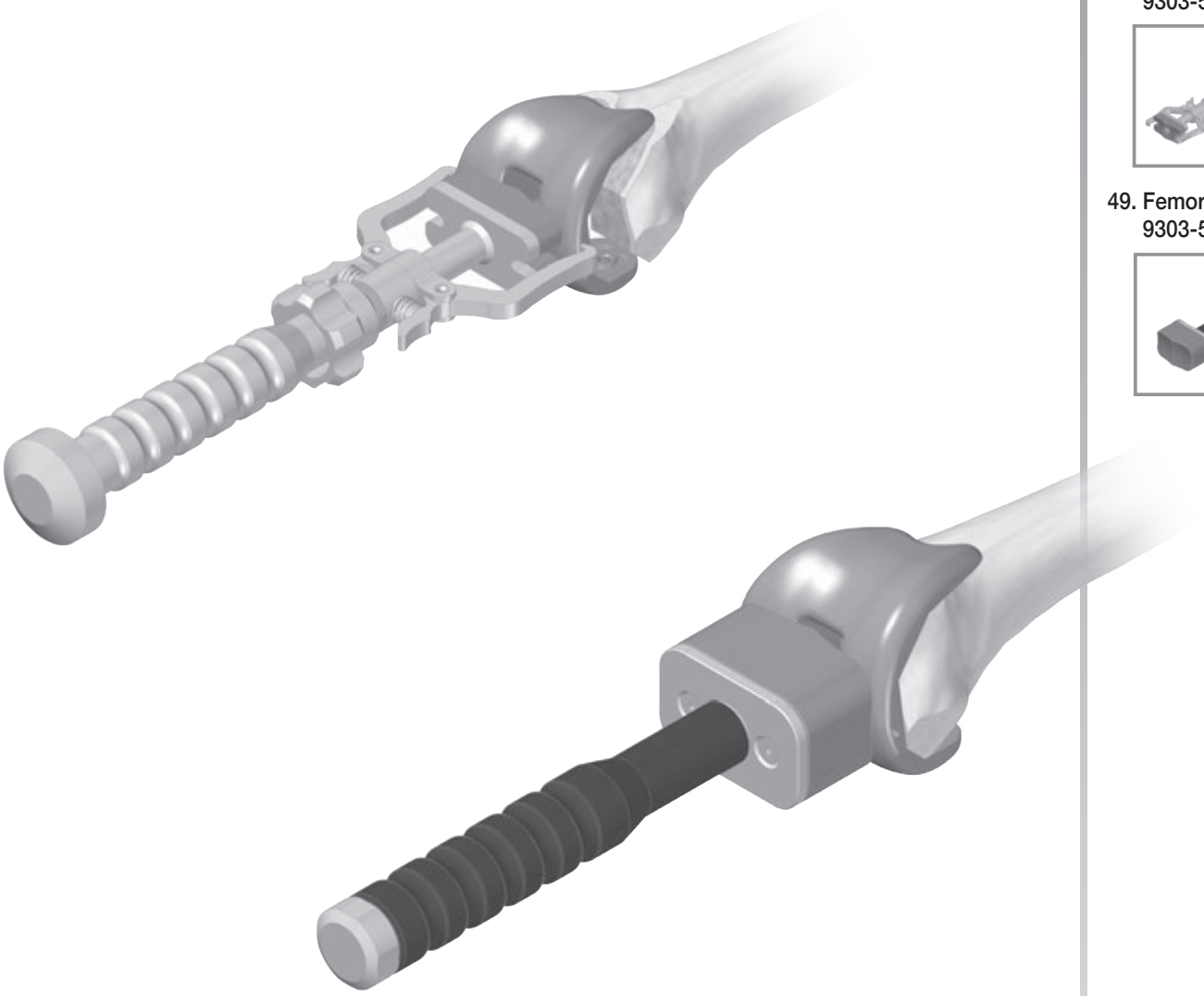
1. Apply cement under the tibial baseplate and insert the tibial implant into the position with the **Tibial Baseplate Driver** [46].

2. Impact the tibial baseplate implant with the **Tibial Baseplate Impactor** [47] and remove exceed cement.

48. Femoral Driver
9303-5110

49. Femoral Impactor
9303-5103-RB





3. Place cement onto the surface of the femoral component implant and insert the implant into the position with the **Femoral Driver** [48].

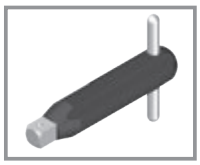
4. Impact the implant with the **Femoral Impactor** [49] and remove exceed cement.

50. Universal Impactor
9303-5119-RB

5. Place the appropriate size tibial insert on the tibial baseplate and use the **Universal Impactor** [50] to fully seat the insert.

17. Screw Driver Adaptor
9403-5331-RA

18. Driver Handle
9403-1302-RA



6. After the tibial insert is emplaced, tighten the screw that is inside the tibial insert with the assembly of the **Screw Driver Adaptor** [17] and **Driver Handle** [18].

Femoral Component

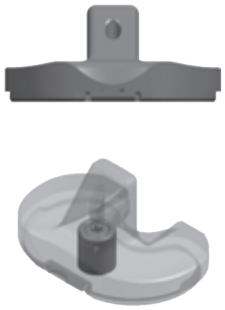
★ *Special Order Items*

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

Tibial Baseplate

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

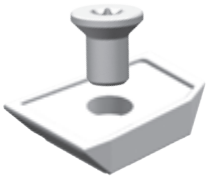
Tibial Insert Assembly



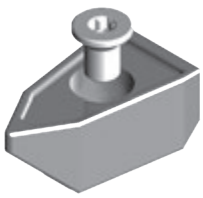
Number	Description		Number	Description	
2303 - 5011	#1	9 mm	2303 - 5041	#4	9 mm
2303 - 5012	#1	11 mm	2303 - 5042	#4	11 mm
2303 - 5013	#1	13 mm	2303 - 5043	#4	13 mm
2303 - 5014	#1	15 mm	2303 - 5044	#4	15 mm
2303 - 5015	#1	18 mm	2303 - 5045	#4	18 mm
2303 - 5016	#1	21 mm	2303 - 5046	#4	21 mm
2303 - 5017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

Femoral Augment Assembly

Number	Description			
2603 - 5011	Posterior		#1	4 mm
2603 - 5021	Posterior		#2	4 mm
2603 - 5031	Posterior		#3	4 mm
2603 - 5041	Posterior		#4	4 mm
2603 - 5051	Posterior		#5	4 mm
2603 - 5061	Posterior		#6	4 mm
2603 - 5012	Posterior		#1	8 mm
2603 - 5022	Posterior		#2	8 mm
2603 - 5032	Posterior		#3	8 mm
2603 - 5042	Posterior		#4	8 mm
2603 - 5052	Posterior		#5	8 mm
2603 - 5062	Posterior		#6	8 mm



2603 - 5111	Distal	L.M. / R.L.	#1	4 mm
2603 - 5121	Distal	L.M. / R.L.	#2	4 mm
2603 - 5131	Distal	L.M. / R.L.	#3	4 mm
2603 - 5141	Distal	L.M. / R.L.	#4	4 mm
2603 - 5151	Distal	L.M. / R.L.	#5	4 mm
2603 - 5161	Distal	L.M. / R.L.	#6	4 mm
2603 - 5112	Distal	L.M. / R.L.	#1	8 mm
2603 - 5122	Distal	L.M. / R.L.	#2	8 mm
2603 - 5132	Distal	L.M. / R.L.	#3	8 mm
2603 - 5142	Distal	L.M. / R.L.	#4	8 mm
2603 - 5152	Distal	L.M. / R.L.	#5	8 mm
2603 - 5162	Distal	L.M. / R.L.	#6	8 mm
2603 - 5211	Distal	L.L. / R.M.	#1	4 mm
2603 - 5221	Distal	L.L. / R.M.	#2	4 mm
2603 - 5231	Distal	L.L. / R.M.	#3	4 mm
2603 - 5241	Distal	L.L. / R.M.	#4	4 mm
2603 - 5251	Distal	L.L. / R.M.	#5	4 mm
2603 - 5261	Distal	L.L. / R.M.	#6	4 mm
2603 - 5212	Distal	L.L. / R.M.	#1	8 mm
2603 - 5222	Distal	L.L. / R.M.	#2	8 mm
2603 - 5232	Distal	L.L. / R.M.	#3	8 mm
2603 - 5242	Distal	L.L. / R.M.	#4	8 mm
2603 - 5252	Distal	L.L. / R.M.	#5	8 mm
2603 - 5262	Distal	L.L. / R.M.	#6	8 mm



2603 - 5313	Distal		#1	12 mm
2603 - 5323	Distal		#2	12 mm
2603 - 5333	Distal		#3	12 mm
2603 - 5343	Distal		#4	12 mm
2603 - 5353	Distal		#5	12 mm
2603 - 5363	Distal		#6	12 mm
2603 - 5314	Distal		#1	16 mm
2603 - 5324	Distal		#2	16 mm
2603 - 5334	Distal		#3	16 mm
2603 - 5344	Distal		#4	16 mm
2603 - 5354	Distal		#5	16 mm
2603 - 5364	Distal		#6	16 mm

Straight Stem

★ *Special Order Items*

Number	Description	Number	Description
2703 - 5003	Ø 14 x 30 mm		

2703 - 5011	Ø 10 x 75 mm	2703 - 5021	Ø 10 x 100 mm
2703 - 5012	Ø 12 x 75 mm	2703 - 5022	Ø 12 x 100 mm
2703 - 5013	Ø 14 x 75 mm	2703 - 5023	Ø 14 x 100 mm
2703 - 5014	Ø 16 x 75 mm	2703 - 5024	Ø 16 x 100 mm
2703 - 5015	Ø 18 x 75 mm	2703 - 5025	Ø 18 x 100 mm
★ 2703 - 5016	Ø 20 x 75 mm	★ 2703 - 5026	Ø 20 x 100 mm

2703 - 5051	Ø 10 x 150 mm	★ 2703 - 5061	Ø 10 x 200 mm
2703 - 5052	Ø 12 x 150 mm	★ 2703 - 5062	Ø 12 x 200 mm
2703 - 5053	Ø 14 x 150 mm	★ 2703 - 5063	Ø 14 x 200 mm
2703 - 5054	Ø 16 x 150 mm	★ 2703 - 5064	Ø 16 x 200 mm
2703 - 5055	Ø 18 x 150 mm	★ 2703 - 5065	Ø 18 x 200 mm
★ 2703 - 5056	Ø 20 x 150 mm	★ 2703 - 5066	Ø 20 x 200 mm
★ 2703 - 5057	Ø 22 x 150 mm	★ 2703 - 5067	Ø 22 x 200 mm

Curved Stem

Number	Description
2703 - 5031	Ø 10 x 150 mm
2703 - 5032	Ø 12 x 150 mm
2703 - 5033	Ø 14 x 150 mm
2703 - 5034	Ø 16 x 150 mm
2703 - 5035	Ø 18 x 150 mm
★ 2703 - 5036	Ø 20 x 150 mm
★ 2703 - 5037	Ø 22 x 150 mm
★ 2703 - 5041	Ø 10 x 200 mm
★ 2703 - 5042	Ø 12 x 200 mm
★ 2703 - 5043	Ø 14 x 200 mm
★ 2703 - 5044	Ø 16 x 200 mm
★ 2703 - 5045	Ø 18 x 200 mm
★ 2703 - 5046	Ø 20 x 200 mm
★ 2703 - 5047	Ø 22 x 200 mm

Tibial Augment

Number	Description		
2803 - 5211		#1	5 mm
2803 - 5221		#2	5 mm
2803 - 5231		#3	5 mm
2803 - 5241		#4	5 mm
2803 - 5251		#5	5 mm
2803 - 5261		#6	5 mm
2803 - 5212		#1	10 mm
2803 - 5222		#2	10 mm
2803 - 5232		#3	10 mm
2803 - 5242		#4	10 mm
2803 - 5252		#5	10 mm
2803 - 5262		#6	10 mm

2803 - 5113	L.M. / R.L.	#1	15 mm
2803 - 5123	L.M. / R.L.	#2	15 mm
2803 - 5133	L.M. / R.L.	#3	15 mm
2803 - 5143	L.M. / R.L.	#4	15 mm
2803 - 5153	L.M. / R.L.	#5	15 mm
2803 - 5163	L.M. / R.L.	#6	15 mm
2803 - 5213	R.M. / L.L.	#1	15 mm
2803 - 5223	R.M. / L.L.	#2	15 mm
2803 - 5233	R.M. / L.L.	#3	15 mm
2803 - 5243	R.M. / L.L.	#4	15 mm
2803 - 5253	R.M. / L.L.	#5	15 mm
2803 - 5263	R.M. / L.L.	#6	15 mm

Offset Stem Adaptor

Number	Description
2903 - 3010	2 mm
2903 - 3020	4 mm
2903 - 3030	6 mm

Femoral Screw

Number	Description
2903 - 1014	M5 x 14 mm

Femoral Trial

Number	Description	
2103 - 6110	left	#1
2103 - 6120	left	#2
2103 - 6130	left	#3
2103 - 6140	left	#4
2103 - 6150	left	#5
2103 - 6160	left	#6
2103 - 6210	right	#1
2103 - 6220	right	#2
2103 - 6230	right	#3
2103 - 6240	right	#4
2103 - 6250	right	#5
2103 - 6260	right	#6

Tibial Baseplate Trial

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

Tibial Insert Trial

★ *Special Order Items*

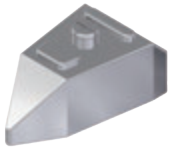
Number	Description	Number	Description
2303 - 6011	#1 9 mm	2303 - 6041	#4 9 mm
2303 - 6012	#1 11 mm	2303 - 6042	#4 11 mm
2303 - 6013	#1 13 mm	2303 - 6043	#4 13 mm
2303 - 6014	#1 15 mm	2303 - 6044	#4 15 mm
2303 - 6015	#1 18 mm	2303 - 6045	#4 18 mm
2303 - 6016	#1 21 mm	2303 - 6046	#4 21 mm
2303 - 6017	#1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

Femoral Posterior Augment Trial

Number	Description
2603 - 6011	#1 4 mm
2603 - 6021	#2 4 mm
2603 - 6031	#3 4 mm
2603 - 6041	#4 4 mm
2603 - 6051	#5 4 mm
2603 - 6061	#6 4 mm
2603 - 6012	#1 8 mm
2603 - 6022	#2 8 mm
2603 - 6032	#3 8 mm
2603 - 6042	#4 8 mm
2603 - 6052	#5 8 mm
2603 - 6062	#6 8 mm

Femoral Distal Augment Trial

Number	Description		
2603 - 6111	L.M. / R.L.	#1	4 mm
2603 - 6121	L.M. / R.L.	#2	4 mm
2603 - 6131	L.M. / R.L.	#3	4 mm
2603 - 6141	L.M. / R.L.	#4	4 mm
2603 - 6151	L.M. / R.L.	#5	4 mm
2603 - 6161	L.M. / R.L.	#6	4 mm
2603 - 6112	L.M. / R.L.	#1	8 mm
2603 - 6122	L.M. / R.L.	#2	8 mm
2603 - 6132	L.M. / R.L.	#3	8 mm
2603 - 6142	L.M. / R.L.	#4	8 mm
2603 - 6152	L.M. / R.L.	#5	8 mm
2603 - 6162	L.M. / R.L.	#6	8 mm
2603 - 6211	R.M. / L.L.	#1	4 mm
2603 - 6221	R.M. / L.L.	#2	4 mm
2603 - 6231	R.M. / L.L.	#3	4 mm
2603 - 6241	R.M. / L.L.	#4	4 mm
2603 - 6251	R.M. / L.L.	#5	4 mm
2603 - 6261	R.M. / L.L.	#6	4 mm
2603 - 6212	R.M. / L.L.	#1	8 mm
2603 - 6222	R.M. / L.L.	#2	8 mm
2603 - 6232	R.M. / L.L.	#3	8 mm
2603 - 6242	R.M. / L.L.	#4	8 mm
2603 - 6252	R.M. / L.L.	#5	8 mm
2603 - 6262	R.M. / L.L.	#6	8 mm



2603 - 6313		#1	12 mm
2603 - 6323		#2	12 mm
2603 - 6333		#3	12 mm
2603 - 6343		#4	12 mm
2603 - 6353		#5	12 mm
2603 - 6363		#6	12 mm
2603 - 6314		#1	16 mm
2603 - 6324		#2	16 mm
2603 - 6334		#3	16 mm
2603 - 6344		#4	16 mm
2603 - 6354		#5	16 mm
2603 - 6364		#6	16 mm

Straight Stem Trial

★ *Special Order Items*

	Number	Description
	2703 - 6003	Ø 14 x 30 mm
	2703 - 6011	Ø 10 x 75 mm
	2703 - 6012	Ø 12 x 75 mm
	2703 - 6013	Ø 14 x 75 mm
	2703 - 6014	Ø 16 x 75 mm
	2703 - 6015	Ø 18 x 75 mm
★	2703 - 6016	Ø 20 x 75 mm
	2703 - 6021	Ø 10 x 100 mm
	2703 - 6022	Ø 12 x 100 mm
	2703 - 6023	Ø 14 x 100 mm
	2703 - 6024	Ø 16 x 100 mm
	2703 - 6025	Ø 18 x 100 mm
★	2703 - 6026	Ø 20 x 100 mm
	2703 - 6051	Ø 10 x 150 mm
	2703 - 6052	Ø 12 x 150 mm
	2703 - 6053	Ø 14 x 150 mm
	2703 - 6054	Ø 16 x 150 mm
	2703 - 6055	Ø 18 x 150 mm
★	2703 - 6056	Ø 20 x 150 mm
★	2703 - 6057	Ø 22 x 150 mm
★	2703 - 6058	Ø 24 x 150 mm
★	2703 - 6061	Ø 10 x 200 mm
★	2703 - 6062	Ø 12 x 200 mm
★	2703 - 6063	Ø 14 x 200 mm
★	2703 - 6064	Ø 16 x 200 mm
★	2703 - 6065	Ø 18 x 200 mm
★	2703 - 6066	Ø 20 x 200 mm
★	2703 - 6067	Ø 22 x 200 mm
★	2703 - 6068	Ø 24 x 200 mm

Curved Stem Trial

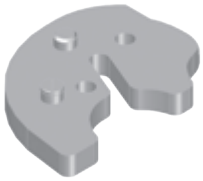
★ *Special Order Items*

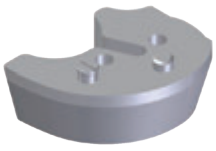
	Number	Description
	2703 - 6031	Ø 10 x 150 mm
	2703 - 6032	Ø 12 x 150 mm
	2703 - 6033	Ø 14 x 150 mm
	2703 - 6034	Ø 16 x 150 mm
	2703 - 6035	Ø 18 x 150 mm
★	2703 - 6036	Ø 20 x 150 mm
★	2703 - 6037	Ø 22 x 150 mm
★	2703 - 6038	Ø 24 x 150 mm
★	2703 - 6041	Ø 10 x 200 mm
★	2703 - 6042	Ø 12 x 200 mm
★	2703 - 6043	Ø 14 x 200 mm
★	2703 - 6044	Ø 16 x 200 mm
★	2703 - 6045	Ø 18 x 200 mm
★	2703 - 6046	Ø 20 x 200 mm
★	2703 - 6047	Ø 22 x 200 mm
★	2703 - 6048	Ø 24 x 200 mm

Offset Adaptor Trial

Number	Description
2903 - 2010	2 mm
2903 - 2020	4 mm
2903 - 2030	6 mm

Tibial Augment Trial





Number	Description		
2803 - 6111	left	#1	5 mm
2803 - 6121	left	#2	5 mm
2803 - 6131	left	#3	5 mm
2803 - 6141	left	#4	5 mm
2803 - 6151	left	#5	5 mm
2803 - 6161	left	#6	5 mm
2803 - 6112	left	#1	10 mm
2803 - 6122	left	#2	10 mm
2803 - 6132	left	#3	10 mm
2803 - 6142	left	#4	10 mm
2803 - 6152	left	#5	10 mm
2803 - 6162	left	#6	10 mm
2803 - 6113	L.M. / R.L.	#1	15 mm
2803 - 6123	L.M. / R.L.	#2	15 mm
2803 - 6133	L.M. / R.L.	#3	15 mm
2803 - 6143	L.M. / R.L.	#4	15 mm
2803 - 6153	L.M. / R.L.	#5	15 mm
2803 - 6163	L.M. / R.L.	#6	15 mm
2803 - 6211	right	#1	5 mm
2803 - 6221	right	#2	5 mm
2803 - 6231	right	#3	5 mm
2803 - 6241	right	#4	5 mm
2803 - 6251	right	#5	5 mm
2803 - 6261	right	#6	5 mm
2803 - 6212	right	#1	10 mm
2803 - 6222	right	#2	10 mm
2803 - 6232	right	#3	10 mm
2803 - 6242	right	#4	10 mm
2803 - 6252	right	#5	10 mm
2803 - 6262	right	#6	10 mm
2803 - 6213	R.M. / L.L.	#1	15 mm
2803 - 6223	R.M. / L.L.	#2	15 mm
2803 - 6233	R.M. / L.L.	#3	15 mm
2803 - 6243	R.M. / L.L.	#4	15 mm
2803 - 6253	R.M. / L.L.	#5	15 mm
2803 - 6263	R.M. / L.L.	#6	15 mm

Number	Description
9301 - 2251	Lower point gauge, 1.30 mm

Number	Description
9301 - 2282	Extramedullary alignment tower

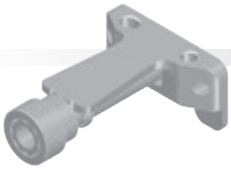
Number	Description
9301 - 3207	Spike, short

Number	Description
9303 - 1101	Stem trial driver

Number	Description
9301 - 5107	Spike remover

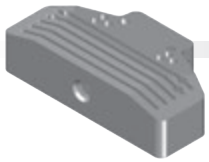
Number	Description
9303 - 1300	T-handle

Number	Description
9303 - 2701	Distal femoral plate S
9303 - 2703	Distal femoral plate M
9303 - 2705	Distal femoral plate L



Number	Description
9303 - 2706	Femoral IM alignment guide

Number	Description
9303 - 2707	Distal femoral alignment guide



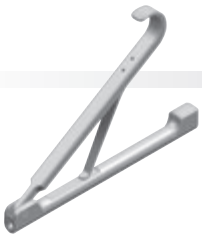
Number	Description
9303 - 2708 - RB	Distal femoal resection guide

Number	Description
9303 - 3203	Twist drill 3.2 mm short
9303 - 3204	Twist drill 3.2 mm long

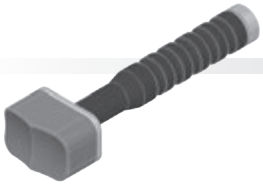
Number	Description
9303 - 3207	Pin 3.2 x 70 mm

Number	Description
9303 - 3210	Femoral IM rod Ø 9 x 400 mm

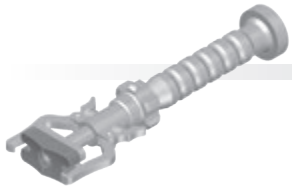
Number	Description
9303 - 5001 - RA	Quick pin driver



Number	Description
9303 - 5002	Pin extractor



Number	Description
9303 - 5103 - RB	Femoral impactor

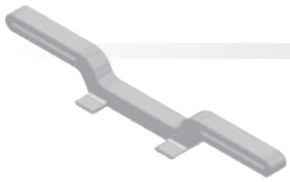


Number	Description
9303 - 5110	Femoral driver

Number	Description
9303 - 5119 - RB	Universal impactor

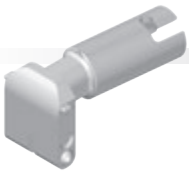
Number	Description	
9303 - 5202	Femoral distal spacer	2 mm
9303 - 5204	Femoral distal spacer	4 mm
9303 - 5206	Femoral distal spacer	6 mm
9303 - 5208	Femoral distal spacer	8 mm

Number	Description
9303 - 5311	Sliding hammer



Number	Description
9303 - 5315	Femoral rotation guide

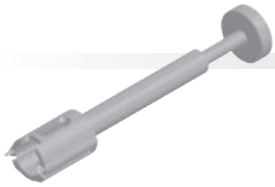
Number	Description
9303 - 5329	Screw driver adaptor L



Number	Description
9303 - 5333 - RA	Femoral valgus adaptor left
9303 - 5334 - RA	Femoral valgus adaptor right

Number	Description
9303 - 7311 - RA	Femoral sizing template #1
9303 - 7312 - RA	Femoral sizing template #2
9303 - 7313 - RA	Femoral sizing template #3
9303 - 7314 - RA	Femoral sizing template #4
9303 - 7315 - RA	Femoral sizing template #5
9303 - 7316 - RA	Femoral sizing template #6

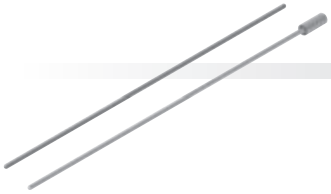
Number	Description
9303 - 8071 - RA	U2 Knee PSA case #1
9303 - 8072	U2 Knee PSA case #2
9303 - 8073	U2 Knee PSA case #3
9303 - 8074	U2 Knee PSA case #4
9303 - 8075	U2 Knee PSA case #5



Number	Description
9403 - 1101 - RC	Tibial punch handle CM

Number	Description
9403 - 1203	Tibial sizing template handle

Number	Description
9403 - 1302 - RA	Driver handle, 3/8”



Number	Description
9403 - 2202	Alignment rod

Number	Description
9403 - 2310	Tibial IM alignment guide

Number	Description
9403 - 2311	IM guide collar S
9403 - 2313	IM guide collar M
9403 - 2315	IM guide collar L

Number	Description
9403 - 2316	Tibial augment alignment sleeve

Number	Description
9403 - 2321 - RB	Tibial resection guide, 0°, left
9403 - 2322 - RB	Tibial resection guide, 0°, right

Number	Description
9403 - 2414	Tibial stem drill guide, Ø 14 mm

Number	Description
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 - 3021 - RB	Straight stem reamer Ø 21 mm
9403 - 3022 - RB	Straight stem reamer Ø 22 mm
9403 - 3023 - RB	Straight stem reamer Ø 23 mm
9403 - 3024 - RB	Straight stem reamer Ø 24 mm

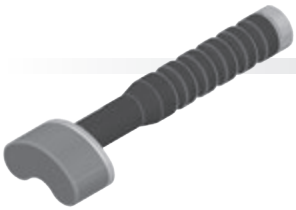
Number	Description
9403 - 3201	Tibial IM rod Ø 9 x 430 mm

Number	Description
9403 - 3300	Boss reamer

Number	Description
9403 - 3302	Offset reamer 2 mm
9403 - 3304	Offset reamer 4 mm

Number	Description
9403 - 3314	Tibial stem drill Ø 14 mm

Number	Description
9403 - 5101 - RC	Tibial baseplate driver



Number	Description
9403 - 5102 - RF	Tibial baseplate impactor

Number	Description
9403 - 5104	Tibial insert extractor

Number	Description
9403 - 5315	Tibial neutral bushing

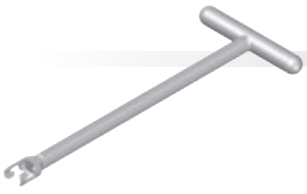
Number	Description
9403 - 5316	Tibial offset bushing 2 mm
9403 - 5317	Tibial offset bushing 4 mm

Number	Description
9403 - 5320	Tibial offset fixture

Number	Description
9403 - 5322	Tibial offset wrench

Number	Description
9403 - 5331 - RA	Screw driver adaptor

Number	Description
9403 - 5333	Offset bushing wrench



Number	Description
9403 - 5334	Stem trial remover

★ *Special Order Items*

Number	Description
9403 - 5340	Stem impactor

Number	Description
9403 - 5352	Stem extractor adaptor

Number	Description
9403 - 5353	Tibial Insert screw holder

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

★ *Special Order Items*

Number	Description
9403 - 6011	Tibial punch S
9403 - 6021	Tibial punch M
9403 - 6031	Tibial punch L

Number	Description
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

Number	Description
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

Number	Description
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

DESCRIPTION

"UNITED" U2 Total Knee System – Posterior Stabilized Augmentable (PSA) type is an extended design of "UNITED" U2 Total Knee system. It is a Patellofemorotibia, polymer / metal / polymer, semi-constrained, cemented knee prosthesis, which has a cobalt-chromium-molybenum (Co-Cr-Mo) alloy femoral component and a tibial component composed of a polyethylene insert machined from compressed molded UHMWPE and a Ti-6Al-4V metallic tibial baseplate. This system is intended for use in patients who require augmentation and/or stem extensions due to inadequate bone stock. There are a variety of components including femoral augment set, tibial augment, stem extension and offset stem adapter that provide more choices for surgeon to treat their patients. In addition, this system provides more stability for patients with inadequate mediolateral, anterioposterior or varus-valgus soft tissue imbalance. For total knee replacement, "UNITED" patella components are intended to be used with U2 Total Knee System – PSA Type. The components of U2 Total Knee system-PSA Type are listed as below.

MATERIALS

ASTM F75 Co-Cr-Mo alloy	Femoral component
ASTM F1537/ASTM F75 Co-Cr-Mo alloy	Femoral augment set
ASTM F136/ISO 5832-3 Ti-6Al-4V ELI alloy	Tibial baseplate, Femoral augment set, Tibial augment, Offset stem adapter, Femoral screw, Stem
ASTM F648/ISO 5834 UHMWPE	Tibial insert
ASTM F1580 Titanium	Metallic powder for Ti plasma spray

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.

CONTRAINDICATIONS

The U2 Total Knee System is contraindicated in patients who with:
–any active or suspected latent of infection in the affected joint.
–skeletal immaturity.
–either mental or neuromuscular disorders which would create an unacceptable risk of prosthesis instability or complications in postoperative care.
–rheumatoid arthritis and an ulcer of the skin or a history of recurrent
–breakdown of the skin.

ADVERSE EFFECTS

Potential adverse effects include infection, loosening of the components, breakage or bending of the components, or change in position of the components. Dislocation can occur due to inappropriate patient activity, trauma or other biomechanical considerations. Loosening may result from inadequate initial fixation, latent infection, premature loading of the prosthesis, component malalignment, osteolysis or trauma. Breakage or bending may result due to inadequate support of the component by the underlying bone or poor component fixation. Wear of polyethylene components has occurred and literature reports have associated its occurrence with bone resorption, loosening and infection. Other potential adverse effects of total knee surgery include genitourinary disorders; gastrointestinal disorders; neurovascular damage, thromboembolic disease, myocardial infarction and other less common adverse effects. Adverse effects may necessitate reoperation, revision, arthrodesis of the involved joint, and/or amputation of the limb. Due to the many biological, mechanical and physicochemical factors which affect these devices, the components cannot be expected to indefinitely withstand the activity level and loads of normal healthy bone.

WARNINGS AND PRECAUTIONS

Familiarity with and attention to appropriate surgical technique for total knee arthroplasty and the U2 Total Knee System – PSA Type is essential for success of the total knee procedure. Only surgeons who have reviewed the literature regarding total knee surgery and have been training in the technique should utilize the device. Patients should be instructed the limitations of the prosthesis, including, but not limited to, the impact of excessive loading through patient weight or activity, and be taught to govern their activities accordingly. If the patient is involved in an occupation or activity which includes substantial walking, running, lifting, or muscle strain, the resultant forces can cause failure of the fixation, the device, or both. The prosthesis will not restore function to the level expected with normal healthy bone, and the patient should not have unrealistic functional expectations.

AAccordingly, strict adherence to the indications, contraindications, precaution and warnings for this product is essential to potentially maximize service life. Appropriate selection, placement and fixation of the total knee components are critical factors that affect implant service life. As in the case of all prosthetic implants, the durability of these components is affected by numerous biologic biomechanic and other extrinsic factors, which limit their service life.

The surgeon must not allow damage to polished bearing surfaces because this may accelerate wear of the components. Discard all damaged or mishandled implants. Keep bearing areas clean and free of debris prior to assembly. The tibial augment is only to be used with bone cement. Components of the U2 Total Knee System – PSA Type should not be used with those of another manufacturer's total knee component since articular and dimensional compatibility cannot be assured. Femoral component and tibial insert should belong to the one single system; therefore, femoral component of U2 Total Knee System – PSA Type cannot be coupled with tibial insert of U2 Total Knee System, vice versa. Intentional removal of the plastic tibial insert after its assembly into the tibial tray results in the destruction of the plastic insert. Care should be taken not to nick or notch the surface of the tibial tray during insert removal. Return all packages with flaws in the sterile barrier to the supplier. This device is for single use only. Do not reuse and Do not resterilize. Reuse of this product will cause the risk of cross infection and unpredictable health threat.

UTILIZATION AND IMPLANTATION

Selection of the U2 Total Knee System – PSA Type depends on the requirement of the patient. The surgeon should become thoroughly familiar with the technique of implantation of the prostheses by: (1) appropriate reading of the literature and (2) training in the operative skills and techniques required for total knee arthroplasty surgery. The trial components should be used for size determination, trial reduction and range of motion evaluation. Radiographic templates are available to assist in the preoperative prediction component size and style.

PACKAGING, LABELING AND STERILIZATION

This device has been sterilized by gamma radiation. The packaging of all sterile products should be inspected for their integrity and should be accepted only with proper packaging and labeling intact. Care should be taken to prevent contamination of the component. In the event of contamination, this product must be discarded. If the package is opened, but the product is not used, the component must not be resterilized and must be discarded or returned to the supplier.

IMPORTANT FOR OPENED COMPONENTS

The plastic components, if opened, are not permitted be re-sterilization by any method. The metal components, if opened, please return to United Orthopedic Corporation. A suitable handing in cleaning (if necessary), packaging and gamma radiation will be done.

SAFETY INFORMATION IN THE MAGNETIC RESONANCE (MR) ENVIONMENT

The U2 Total Knee System–PSA type has not been evaluated for safety and compatibility in the MR environment. The U2 Total Knee System–PSA type has not been tested for heating or migration in the MR environment.

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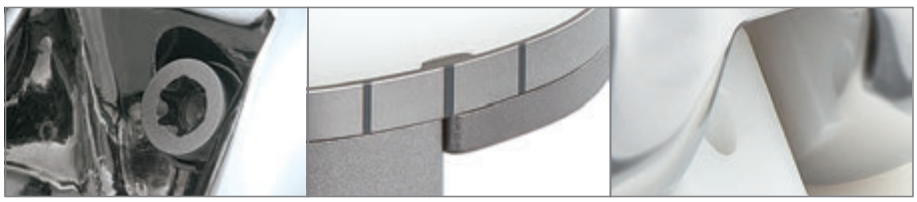

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For our valued distribution partners, you can reach our customer service associates at customerservice@uocusa.com

For assistance on general and/or product related inquiries, please email us at sales@uocusa.com

Please refer to the product-specific package inserts for important information, including indications, contraindications, warnings, precautions, and potential adverse effects.

www.uocusa.com

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