UNITED ORTHOPEDIC®

Conformity™ Stem

Femoral Hip System

Direct Anterior Approach Surgical Technique Guide

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Device Description

Conformity Stem –

The Conformity stem platform provides a comprehensive stem solution to hip arthroplasty surgery. To provide surgeons with the implant that best meets the needs of their patients, Conformity features the clinical proven concepts of utilizing a fully hydroxyapatite (HA) coating on the stem, multiple neck options, collared and collarless features, and has 72 cementless options available. Additionally, 20 cemented options are available in standard and high offset collarless designs. Optimized dimensional parameters are applied to the stem design to maximize the biomechanical advantages and to facilitate minimally invasive surgery in direct anterior (DA) and non DA approaches.

92 stem options are available:

Cementless options

- Standard collared stem: size #0-11
- High offset collared stem: size #1-11
- Standard collarless stem: size #0-11
- High offset collarless stem: size #1-11
- Coxa Vara standard collared stem: size #0-7
- Coxa Vara high offset collared stem: size #2-11
- Short neck collared stem: size #0-7

Cemented options

- Standard collarless stem: size #1-10
- High offset collarless stem: size #1-10

INDICATIONS

The device is indicated for use in hip arthroplasty in skeletally mature patients with the following conditions:

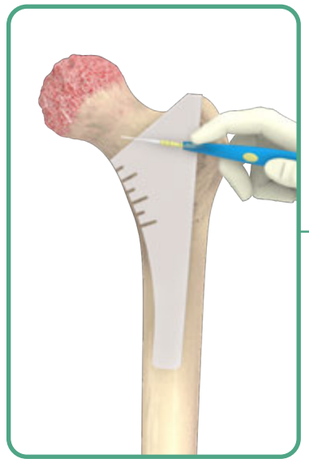
1. A severely painful and/or disabled joint from osteoarthritis, traumatic arthritis, rheumatoid arthritis, or congenital hip dysplasia.
2. Avascular necrosis of the femoral head.
3. Acute traumatic fracture of the femoral head or neck.
4. Failed previous hip surgery including joint reconstruction, internal fixation, arthrodesis, hemiarthroplasty, surface replacement or total hip replacement.
5. Certain cases of ankylosis.

Please note :

1. *The conformity stem is for cementless use only, while the conformity cemented stem is for cemented used only.*
2. *This Surgical Protocol is consistent with our validated labeling. It is not intended to substitute for each surgeon's individual medical judgement regarding patient care. It is intended to be a reference document to be utilized in support of total hip arthroplasty using United Orthopedics' Conformity stem.*

Please refer to the package inserts for important product information, including, but not limited to contraindications, warnings, precautions, and adverse effects.

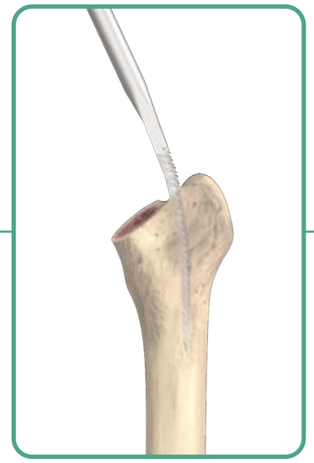
Surgical Overview



A. Femoral Osteotomy

B. Femoral Canal Accessing

C. Canal Reaming

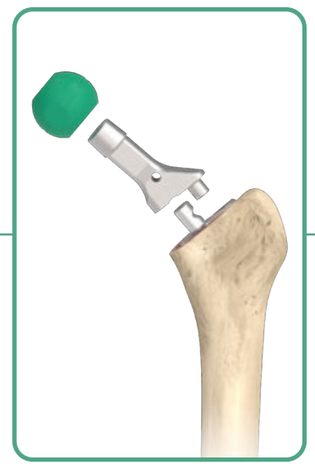


D. Lateralization

E. Canal Broaching

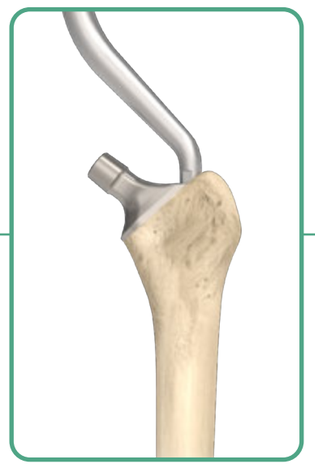
F. Calcar Preparation

G. Femoral Neck Templating

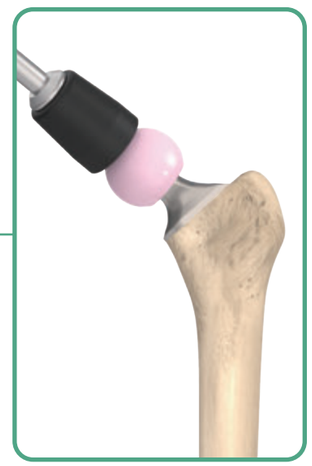


H. Trial Reduction

I. Stem Insertion



J. Stem Impaction



K. Femoral Head Impaction

Preoperative Planning and Templating

Preoperative planning is essential for determining the optimal stem size, neck resection level, and the appropriate neck length. Making an accurate femoral component selection begins with a thorough radiographic evaluation of the affected femur, both A/P view and lateral view. The A/P radiographic image should include bilateral hip joints to help evaluate the affected side. These radiographs provide an estimation of leg length discrepancy, femoral offset, and center of rotation needed to reconstruct hip biomechanics.

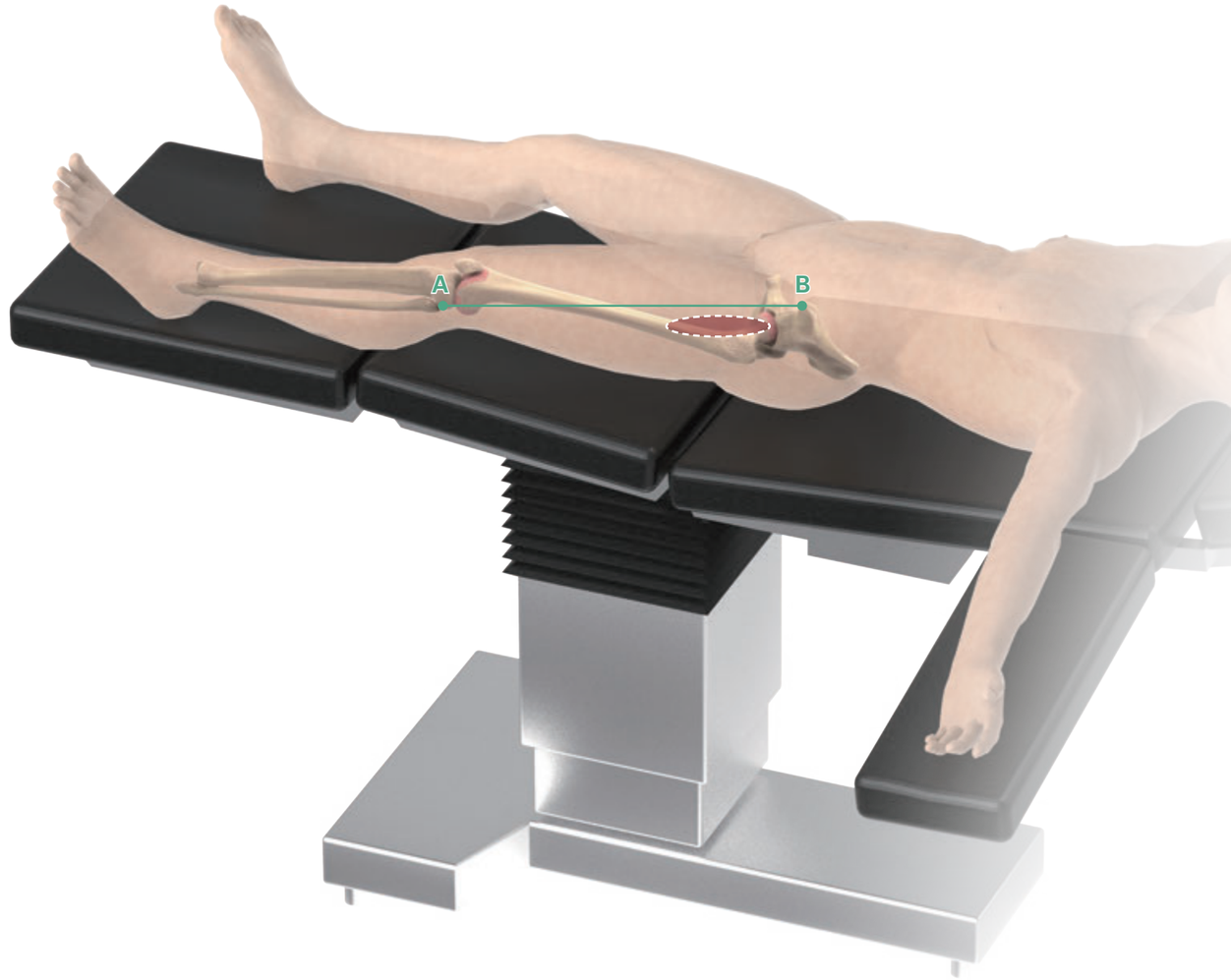
The conformity stem features a medial step and horizontal/vertical grooves for stabilization. The stem is designed to seat in cancellous bone. When templating, the engagement of the implant template with the cortical bone should be avoided. Sparing around 1 mm of space between the stem implant and the cortex of the proximal femur is recommended. Surgeons may choose between standard sizes 0-11 and high offset sizes 1-11.

There are also coxa vara standard stems available for sizes 0-7, coxa vara high offset stems available for sizes 2-11, and short neck stems available for sizes 0-7. This variety of proximal lengths and offsets provides the surgeons sufficient flexibility in essential adjustment of leg length and offset for each patient.

Templates show the femoral head centers for each of the head/neck combinations (-3 to +10 mm, depending on the selected head materials and diameters). The final determination of implant choice should take into account the acetabular cup position, cup size, and hip center.

Initial Incision Planning

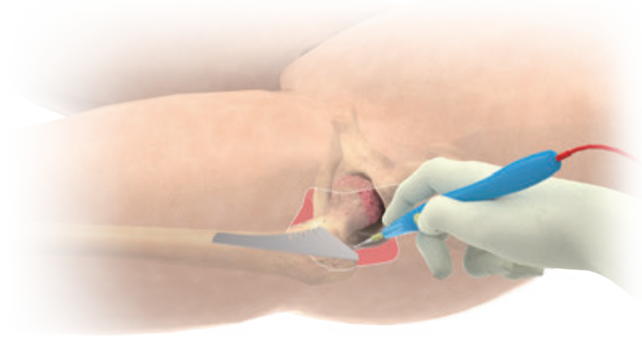
The location of the incision is determined using the anterior superior iliac spine (ASIS) as a reference. For the direct anterior approach, an incision measuring approximately 8–10 cm is typically made, directed toward the lateral aspect of the patella, with the greater trochanter serving as the midpoint reference.

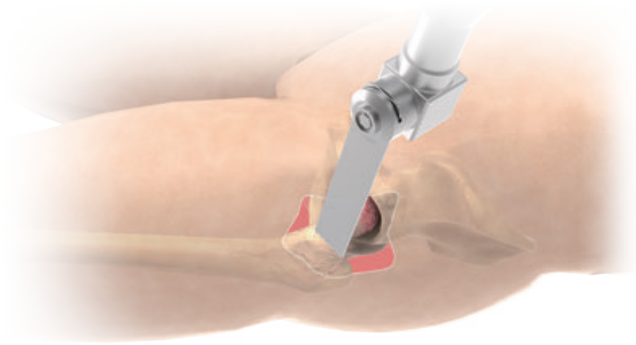


A. Femoral Osteotomy

The osteotomy is made in accordance with the pre-operative templating. The initial osteotomy typically starts at the saddle (the curved area where the greater trochanter and femoral neck meet) and proceeds at approximately 45° to the axis of the femur.
Care should be taken to avoid cutting the greater trochanter. A blunt retractor may be placed in this location to protect the tip of the trochanter.

Intraoperatively, align the **Conformity Neck Resection Guide** with the anatomical axis of the femoral canal. Mark the cut line using electrocautery, then complete the femoral neck resection with a power saw. Connect the **Femoral Head Extractor** with the **Modular T-handle** or power tool, then remove the femoral head.



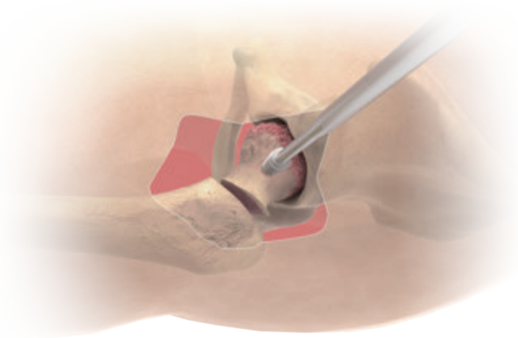


Instruments

Conformity Neck Resection Guide

Modular T-handle

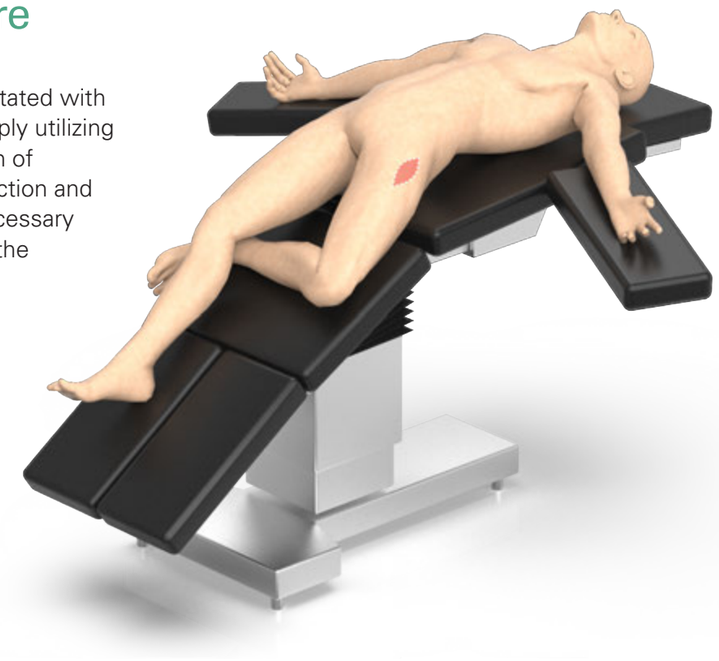
Tip:
If desired, a second osteotomy can be made at the junction of the femoral head and neck. The boney ring between the osteotomies is removed facilitating femoral head removal.



Femoral Exposure

Femoral exposure can be facilitated with a figure-of-four position or simply utilizing external rotation and adduction of the operated limb. Slight adduction and 90° of external rotation are necessary but avoid excessive flexion of the knee on the operative leg.

Soft tissue releases can help mobilize the proximal femur as needed.



Instruments

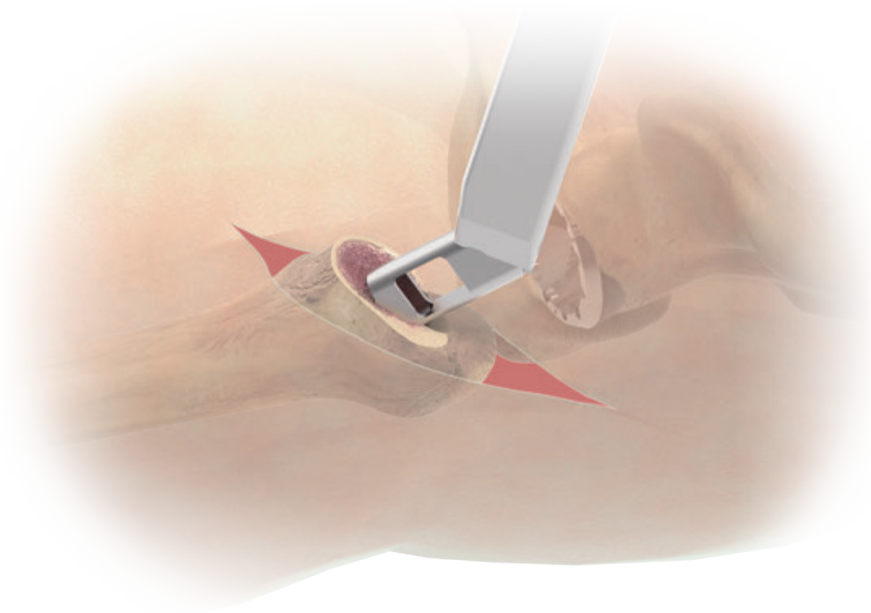
Femoral Head Extractor

Modular T-handle

B. Femoral Canal Accessing

Utilize the modular **Femoral Cutting Chisel** with an **Offset Broach Handle** to start the initial entry into the canal. Care should be taken to ensure that the entry point is lateral in direction (posterior in appearance).

Tip:
A curved rasp or angled curette may be helpful to sound the canal initially.



Instruments

Modular Femoral Cutting Chisel

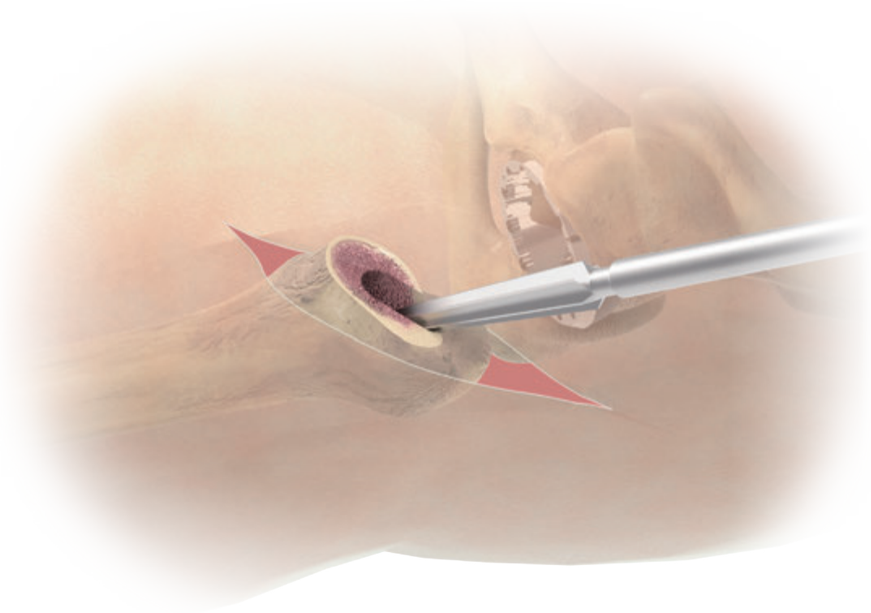
Straight Broach Handle

Offset Broach Handle

Dual Offset Broach Handle

C. Canal Reaming

The **Starter Reamer** is used with the **Modular T-handle** to open the femoral canal and to help ensure the correct alignment within the femoral anatomical axis.



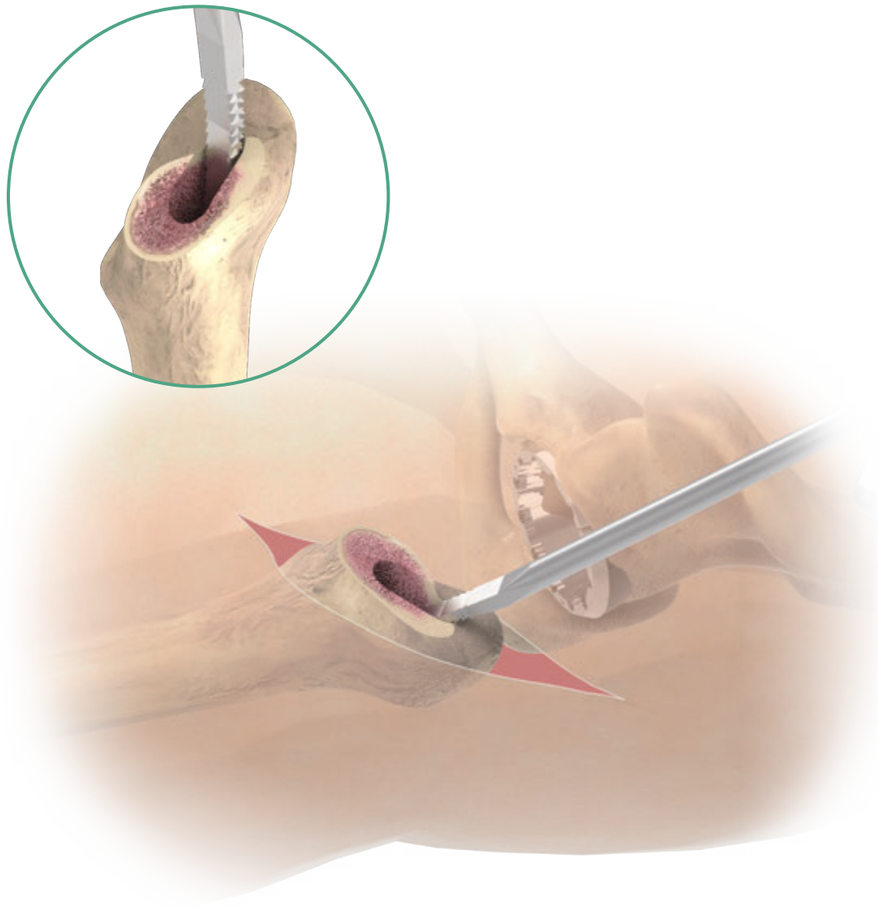
Instruments

Starter Reamer

Modular T-handle

D.Lateralization

Use the **Canal Finder Rasp** to further remove the bone laterally beneath the greater trochanter in order to avoid varus positioning of the stem. This step helps to guide the axis of the femur for subsequent broaching and stem implantation.

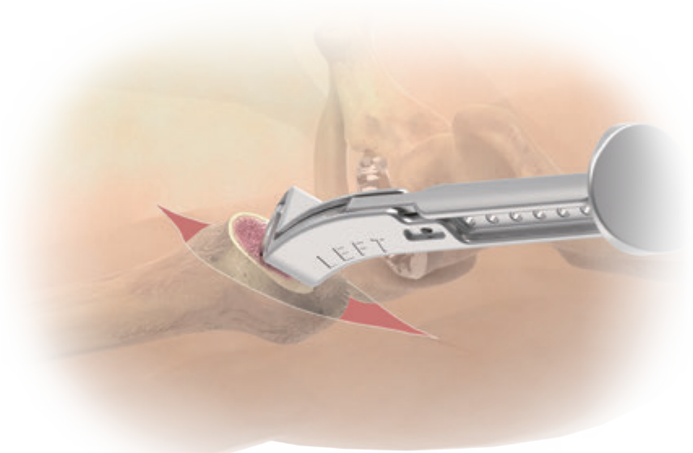


Instruments

Canal Finder Rasp

E.Canal Broaching

Carefully control the direction for ideal anteversion. Gradually enlarge the canal with the **Hybrid Broach** along the created orientation until the planned template size is achieved. The M/L dimensions of the **Hybrid Broach** are identical to that of the implant.



United Conformity

Size	#0	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
M/L width	10.25	10.75	11.5	13.0	14.5	16.0	17.5	19.0	20.5	22.0	23.5	25.0
Increment	-	0.25	0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Unit: mm

Caution:

Care should be taken when inserting or extracting the broaches to ensure that the broach handle does not engage the greater trochanter. Once the risk of this engagement is observed, adequate enlargement of the entry location is necessary to avoid femoral fracture at the proximal medial region.

Note:

It is suggested to fully advance in the canal before beginning the broaching process. This will help minimize the risk of creating a new pathway.

Instruments

Conformity Broach

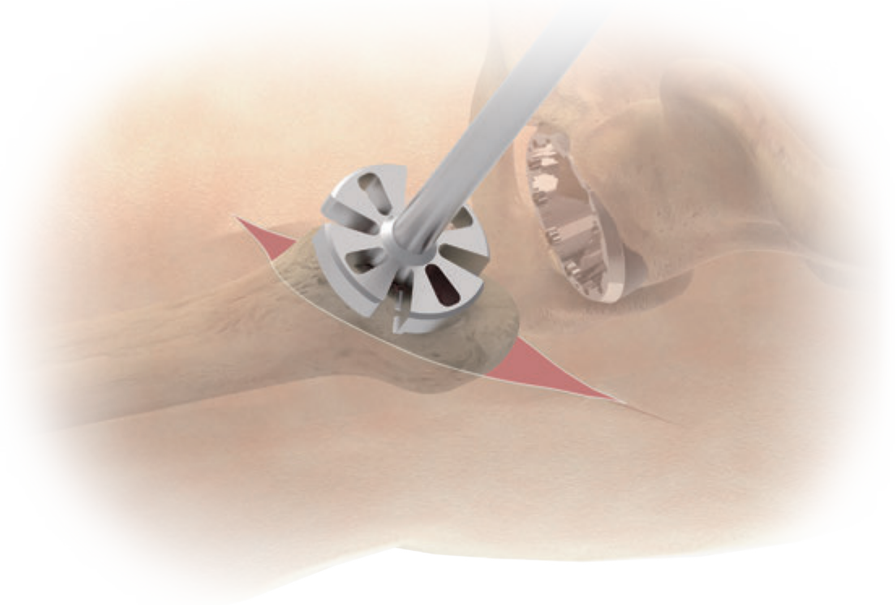
Straight Broach Handle

Offset Broach Handle

Dual Offset Broach Handle

F. Calcar Preparation

When the final broach is seated, choose the corresponding **Conformity Calcar Reamer** and guide the reamer over the **Conformity Broach** trunnion ensuring that the **Conformity Calcar Reamer** is axially aligned with the trunnion and is stable. Plane the medial calcar until the reamer reaches the terminal depth confined by its stroke limit on broach trunnion.



Instruments

Conformity Broach

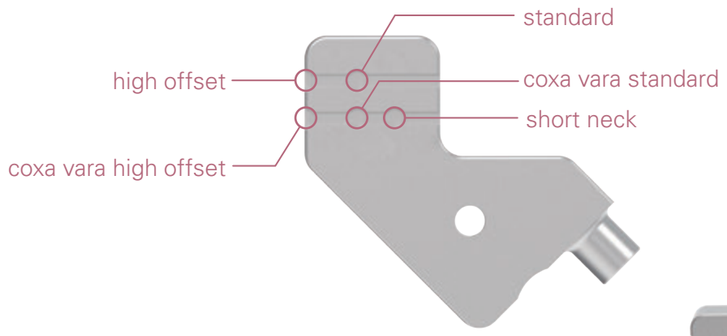
Calcar Reamer
(small, large)

(Optional)

G. Femoral Neck Templating

The **Neck Template** allows for intraoperative confirmation before a neck trial is selected.

The ideal horizontal offset of the femoral head can be evaluated preoperatively, by using radiographs and templates. The grooves on the **Neck Template** represent the suggested neck type for the stem. Each intersection location shows the exact head center when choosing the corresponding stem with +0 mm femoral head:



Put the **Neck Template** onto the trunnion of the **Conformity Broach**. Place the **Neck Template Ruler** into the appropriate groove on the **Neck Template**. The tip of the greater trochanter may be used as a reference for the height of the femoral head center. If the expected head location is matched to one of the groove intersections, then choose the corresponding neck type stem with the desired femoral head to reconstruct the head center.

Instruments

Conformity Broach

Neck Template

Neck Template Ruler

(Optional)

G. Femoral Neck Templating

If a preoperative plan is made and the horizontal offset is determined, or an intraoperative measurement gives a suggested offset which is not equal to the defined neck type, surgeons may read the marks on the **Neck Template Ruler**, and decide the optimal offset required for restoring joint stability.

To achieve the desired offset, surgeons may choose from the femoral head offsets and neck options listed below. Leg length and offset should be considered when selecting these options. The following table shows the combination of different Conformity stem neck types to various head offset offered:

Instruments

Conformity Broach

Neck Template

Neck Template Ruler

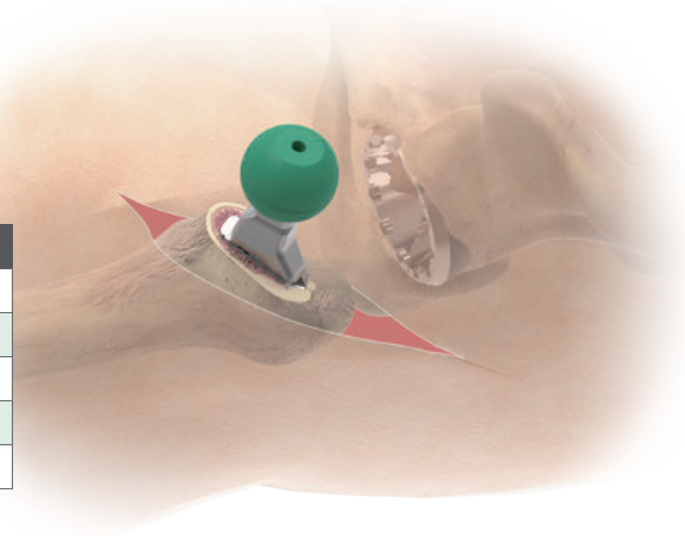
H. Trial Reduction

Assemble the corresponding **Conformity Neck Trial** (standard, high offset, coxa vara standard, coxa vara high offset, or short neck) onto the broach. Perform the trial reduction using the **Femoral Head Trial** with the desired diameter and head offset to confirm the following items:

- Adequate component position
- Soft tissue tension
- Joint stability
- Range of motion
- Leg length
- Femoral offset

Any further correction of selected implant size can be made during the reassessment of leg length and joint biomechanics by varying the **Femoral Head Trial** with a different head offset option if required.

Conformity Neck Trial Options
STD, 135°
High Offset, 135°
Coxa Vara STD, 125°
Coxa Vara HO, 125°
Short Neck, 135°



Tip:

A loop suture can be tied to the trial femoral head to assist with the head retrieval should the head come off during this process.

Instruments

Conformity Broach

Conformity Neck Trial

Femoral Head Trial

I.Stem Insertion

After the trial reduction, remove the broach and introduce the stem using the **Quick Connect Holder**. Use the holder to firmly attach the stem via the insertion hole on the stem shoulder.

Gently tap the holder to achieve initial stem implantation into the medullary canal. Proper care should be taken to orient the stem with proper alignment and version.

Note:
Stop tapping the holder once the stem holder comes into contact with the greater trochanter, or the stem is within 2 mm of the final seating position.

Caution:
The **Quick Connect Holder** is designed to position the implant, not for final impaction. Please **impact gently**.

Instruments

Straight Quick Connect Holder

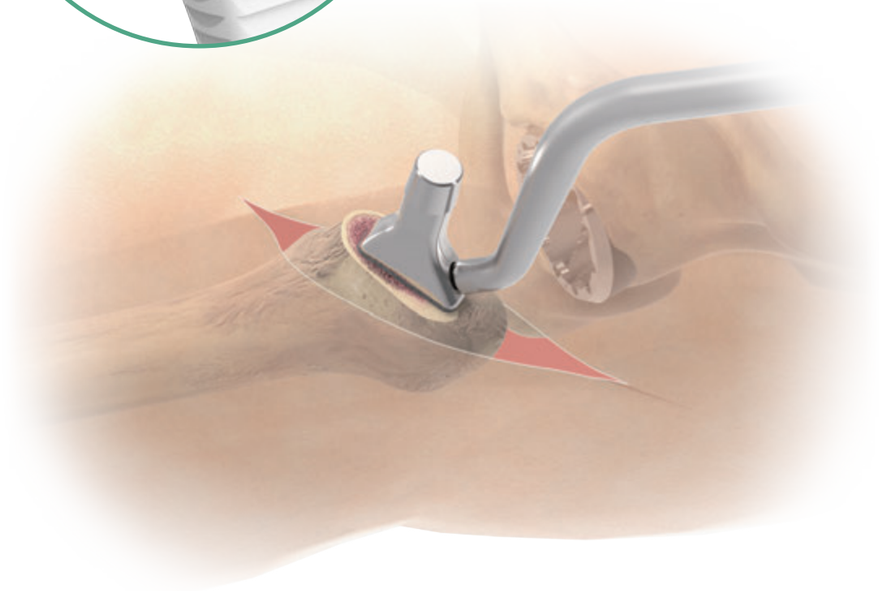
Offset Quick Connect Holder

J.Stem Impaction

Use the **Straight** or **Curved Stem Impactors** to further advance the stem into the canal. The prosthesis should be seated until the most proximal portion of the coating surface is in line with the neck resection level.

Note:
Avoid excessive contact between stem impactor and greater trochanter to avoid bone fracture.

If stem removal is necessary during surgery, secure the **Stem Extractor** into the threaded hole on the shoulder of the stem using the **Stem Extractor Wrench** for fastening. Assemble the **Hammer** and **Slide Rod** onto the **Stem Extractor**, then use them to apply reverse force to extract the stem.



Instruments

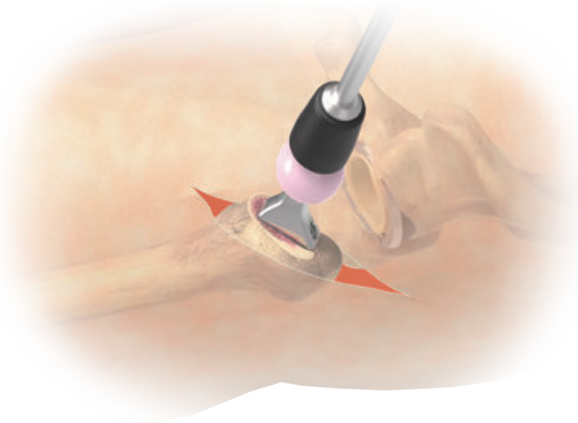
Straight Stem Impactor

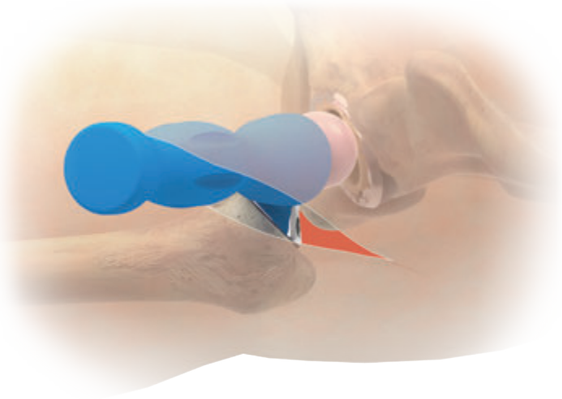
Offset Stem Impactor

K.Femoral Head Impaction

Perform a final trial reduction to confirm stability and leg length by using the **Femoral Head Trials**. After the appropriate femoral head size has been determined, place it onto the cleaned and dried taper by twisting it on by hand.

Connect the **Femoral Head Impactor** and **Universal Handle** and moderately impact the femoral head until it is firmly seated. Clean the bearing surface then reduce the hip with the **Pusher**.





Instruments

Universal Handle

Femoral Head Impactor

Pusher

Femoral Head Trial

Appendix

Cemented Stem Selection

If the patient's condition is not suitable for inserting a cementless Conformity stem, the optional cemented stem can be used. Determination of stem size depends on surgeon's preference and patient's condition. The following table provides the theoretical cement mantle thickness, based on either using the same stem size as the final broach for a line-to-line fit with a thin cement mantle or opting for one to two sizes smaller to achieve a thicker cement mantle:

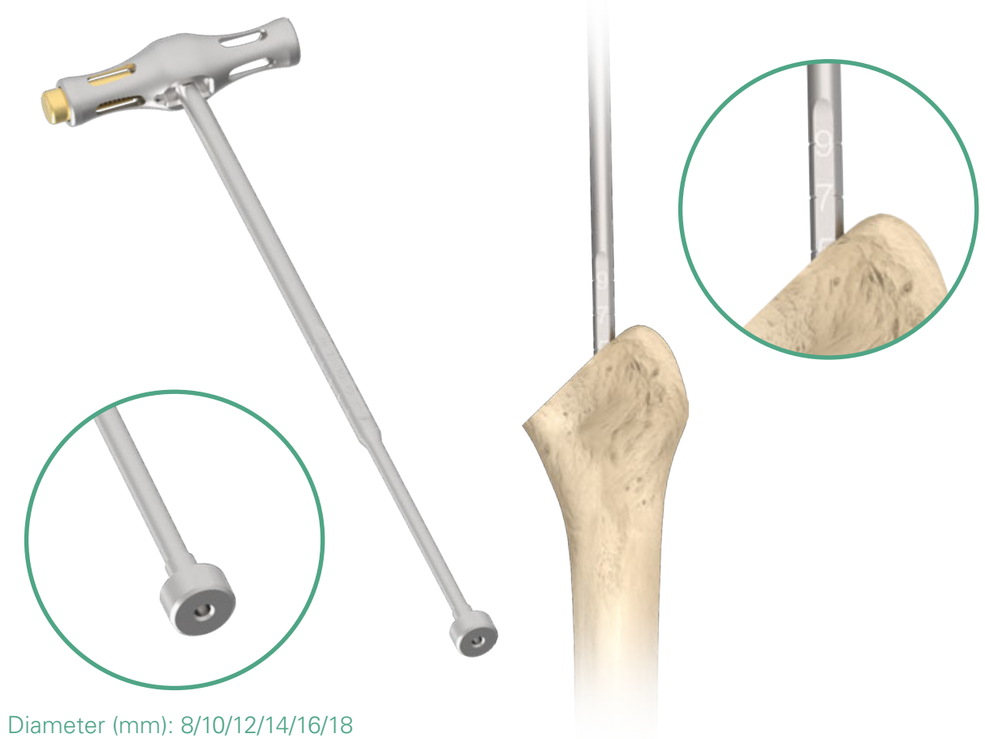
Broach #	1	2	3	4	5	6	7	8	9	10	11
Stem #	Cement Mantle Thickness (mm)										
1	*	0.375	1.125								
2		*	0.75	1.5							
3			*	0.75	1.5						
4				*	0.75	1.5					
5					*	0.75	1.5				
6						*	0.75	1.5			
7							*	0.75	1.5		
8								*	0.75	1.5	
9									*	0.75	1.5
10										*	0.75

* Line-to-line stem insertion

Appendix

Femoral Canal Sizing (Cemented Stem Only)

Assemble the **Modular T-handle, Restrictor Inserter**, and the appropriate **Canal Sizer**. Insert the assembly into the femoral canal to evaluate the canal size. Depth of insertion should depend on the designated size (read the mark on the shaft of inserter) of the cemented stem that is to be implanted. Remove the assembly from the canal.



Diameter (mm): 8/10/12/14/16/18

Instruments

Modular T-handle

Restrictor Inserter

Canal Sizer

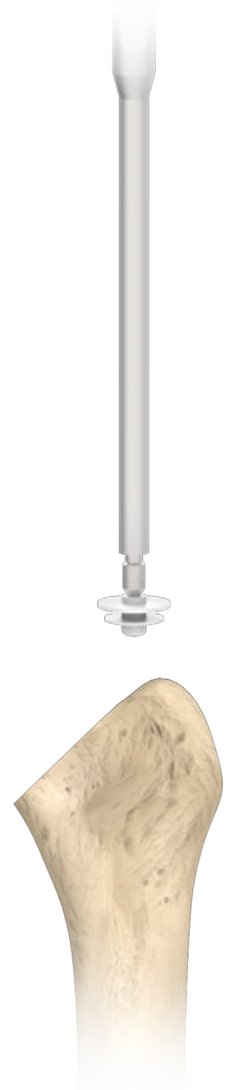
Appendix

Cement Restrictor Insertion (Cemented Stem Only)

Replace the **Canal Sizer** using the appropriate cement restrictor. Introduce the restrictor into the canal to the designated depth (read the mark on the shaft of **Restrictor Inserter**). After the restrictor is located, dry the femoral canal by passing a swab down the canal. Remaining debris can also be removed during this procedure. The bone cement can then be introduced in low viscosity state. Cement can be injected in a retrograde fashion to gradually fill the canal.

Cement Restrictor, I-Type		
Cat. No.	Size	Canal size (mm)
1907-1008	# 8	8 - 9
1907-1010	# 10	10 - 11
1907-1012	# 12	12 - 13
1907-1014	# 14	14 - 15
1907-1016	# 16	16 - 17
1907-1018	# 18	18 - 19

Note:
To ensure the proper bone cement filling, please insert the restrictor prior to introducing the bone cement.



Instruments

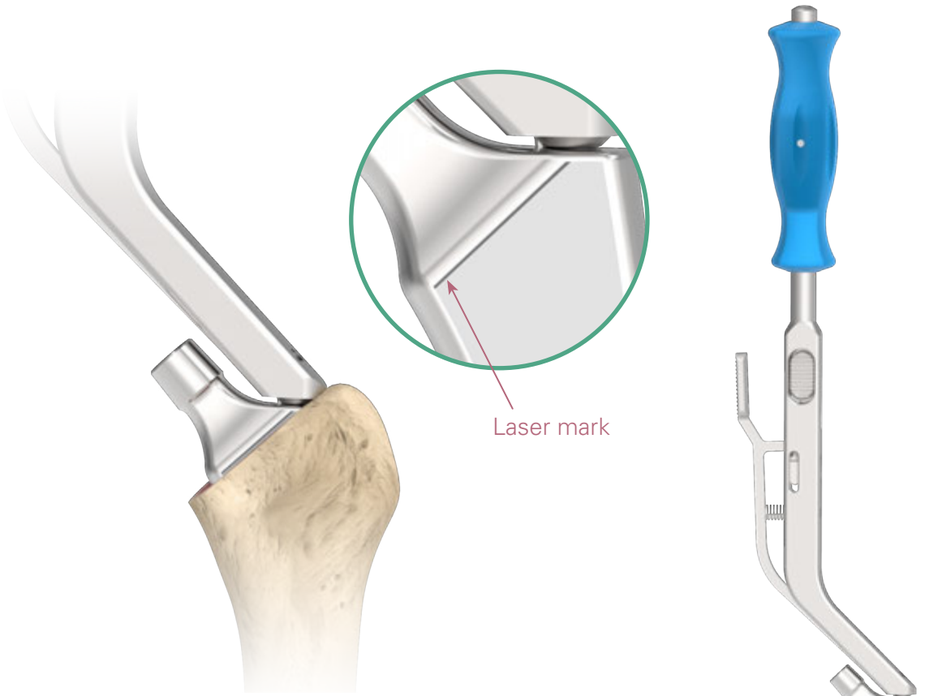
Modular T-handle

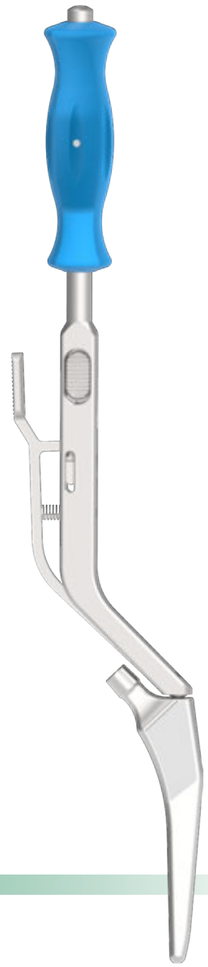
Restrictor Inserter

Appendix

Cemented Stem Insertion (Cemented Stem Only)

Use the **Quick Connect Holder** to hold the cemented Conformity stem, and press the stem into the femoral canal until the adequate depth is reached (the laser mark should be aligned with the resection surface). Remove the excessive cement. Hold the stem until the cement has polymerized, then disengage the **Quick Connect Holder**.





Instruments

Straight Quick Connect Holder

Offset Quick Connect Holder

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Each Step We Care

Appendix

Stem offset with following head lengths

Head Size		Co-Cr-Mo 22 mm				Co-Cr-Mo 28 / 32 / 36 mm						Ceramic 22 mm			Ceramic 28 mm			Ceramic 32 mm				Ceramic 36 / 40 mm			
Head Offset		0	3	6	9	-3	0	2.5	5	7.5	10	1	3	5	-2.5	1	4	-3	1	5	8	-3	1	5	9
Standard (#0-#11)	#0	35.5	37.6	39.7	41.9	33.4	35.5	37.3	39.0	40.8	42.6	36.2	37.6	39.0	33.7	36.2	38.3	33.4	36.2	39.0	41.2	33.4	36.2	39.0	41.9
	#1	36.0	38.1	40.2	42.4	33.9	36.0	37.8	39.5	41.3	43.1	36.7	38.1	39.5	34.2	36.7	38.8	33.9	36.7	39.5	41.7	33.9	36.7	39.5	42.4
	#2	36.5	38.6	40.7	42.9	34.4	36.5	38.3	40.0	41.8	43.6	37.2	38.6	40.0	34.7	37.2	39.3	34.4	37.2	40.0	42.2	34.4	37.2	40.0	42.9
	#3	37.5	39.6	41.7	43.9	35.4	37.5	39.3	41.0	42.8	44.6	38.2	39.6	41.0	35.7	38.2	40.3	35.4	38.2	41.0	43.2	35.4	38.2	41.0	43.9
	#4	38.0	40.1	42.2	44.4	35.9	38.0	39.8	41.5	43.3	45.1	38.7	40.1	41.5	36.2	38.7	40.8	35.9	38.7	41.5	43.7	35.9	38.7	41.5	44.4
	#5	39.0	41.1	43.2	45.4	36.9	39.0	40.8	42.5	44.3	46.1	39.7	41.1	42.5	37.2	39.7	41.8	36.9	39.7	42.5	44.7	36.9	39.7	42.5	45.4
	#6	39.5	41.6	43.7	45.9	37.4	39.5	41.3	43.0	44.8	46.6	40.2	41.6	43.0	37.7	40.2	42.3	37.4	40.2	43.0	45.2	37.4	40.2	43.0	45.9
	#7	40.0	42.1	44.2	46.4	37.9	40.0	41.8	43.5	45.3	47.1	40.7	42.1	43.5	38.2	40.7	42.8	37.9	40.7	43.5	45.7	37.9	40.7	43.5	46.4
	#8	41.0	43.1	45.2	47.4	38.9	41.0	42.8	44.5	46.3	48.1	41.7	43.1	44.5	39.2	41.7	43.8	38.9	41.7	44.5	46.7	38.9	41.7	44.5	47.4
	#9	41.5	43.6	45.7	47.9	39.4	41.5	43.3	45.0	46.8	48.6	42.2	43.6	45.0	39.7	42.2	44.3	39.4	42.2	45.0	47.2	39.4	42.2	45.0	47.9
	#10	42.5	44.6	46.7	48.9	40.4	42.5	44.3	46.0	47.8	49.6	43.2	44.6	46.0	40.7	43.2	45.3	40.4	43.2	46.0	48.2	40.4	43.2	46.0	48.9
	#11	43.5	45.6	47.7	49.9	41.4	43.5	45.3	47.0	48.8	50.6	44.2	45.6	47.0	41.7	44.2	46.3	41.4	44.2	47.0	49.2	41.4	44.2	47.0	49.9
High Offset (#1-#11)	#1	43.0	45.1	47.2	49.4	40.9	43.0	44.8	46.5	48.3	50.1	43.7	45.1	46.5	41.2	43.7	45.8	40.9	43.7	46.5	48.7	40.9	43.7	46.5	49.4
	#2	43.5	45.6	47.7	49.9	41.4	43.5	45.3	47.0	48.8	50.6	44.2	45.6	47.0	41.7	44.2	46.3	41.4	44.2	47.0	49.2	41.4	44.2	47.0	49.9
	#3	44.5	46.6	48.7	50.9	42.4	44.5	46.3	48.0	49.8	51.6	45.2	46.6	48.0	42.7	45.2	47.3	42.4	45.2	48.0	50.2	42.4	45.2	48.0	50.9
	#4	45.0	47.1	49.2	51.4	42.9	45.0	46.8	48.5	50.3	52.1	45.7	47.1	48.5	43.2	45.7	47.8	42.9	45.7	48.5	50.7	42.9	45.7	48.5	51.4
	#5	46.0	48.1	50.2	52.4	43.9	46.0	47.8	49.5	51.3	53.1	46.7	48.1	49.5	44.2	46.7	48.8	43.9	46.7	49.5	51.7	43.9	46.7	49.5	52.4
	#6	46.5	48.6	50.7	52.9	44.4	46.5	48.3	50.0	51.8	53.6	47.2	48.6	50.0	44.7	47.2	49.3	44.4	47.2	50.0	52.2	44.4	47.2	50.0	52.9
	#7	47.0	49.1	51.2	53.4	44.9	47.0	48.8	50.5	52.3	54.1	47.7	49.1	50.5	45.2	47.7	49.8	44.9	47.7	50.5	52.7	44.9	47.7	50.5	53.4
	#8	48.0	50.1	52.2	54.4	45.9	48.0	49.8	51.5	53.3	55.1	48.7	50.1	51.5	46.2	48.7	50.8	45.9	48.7	51.5	53.7	45.9	48.7	51.5	54.4
	#9	48.5	50.6	52.7	54.9	46.4	48.5	50.3	52.0	53.8	55.6	49.2	50.6	52.0	46.7	49.2	51.3	46.4	49.2	52.0	54.2	46.4	49.2	52.0	54.9
	#10	49.5	51.6	53.7	55.9	47.4	49.5	51.3	53.0	54.8	56.6	50.2	51.6	53.0	47.7	50.2	52.3	47.4	50.2	53.0	55.2	47.4	50.2	53.0	55.9
	#11	50.5	52.6	54.7	56.9	48.4	50.5	52.3	54.0	55.8	57.6	51.2	52.6	54.0	48.7	51.2	53.3	48.4	51.2	54.0	56.2	48.4	51.2	54.0	56.9
Short Neck (#0-#7)	#0	30.5	32.6	34.7	36.9	28.4	30.5	32.3	34.0	35.8	37.6	31.2	32.6	34.0	28.7	31.2	33.3	28.4	31.2	34.0	36.2	28.4	31.2	34.0	36.9
	#1	31.0	33.1	35.2	37.4	28.9	31.0	32.8	34.5	36.3	38.1	31.7	33.1	34.5	29.2	31.7	33.8	28.9	31.7	34.5	36.7	28.9	31.7	34.5	37.4
	#2	31.5	33.6	35.7	37.9	29.4	31.5	33.3	35.0	36.8	38.6	32.2	33.6	35.0	29.7	32.2	34.3	29.4	32.2	35.0	37.2	29.4	32.2	35.0	37.9
	#3	32.5	34.6	36.7	38.9	30.4	32.5	34.3	36.0	37.8	39.6	33.2	34.6	36.0	30.7	33.2	35.3	30.4	33.2	36.0	38.2	30.4	33.2	36.0	38.9
	#4	33.0	35.1	37.2	39.4	30.9	33.0	34.8	36.5	38.3	40.1	33.7	35.1	36.5	31.2	33.7	35.8	30.9	33.7	36.5	38.7	30.9	33.7	36.5	39.4
	#5	34.0	36.1	38.2	40.4	31.9	34.0	35.8	37.5	39.3	41.1	34.7	36.1	37.5	32.2	34.7	36.8	31.9	34.7	37.5	39.7	31.9	34.7	37.5	40.4
	#6	34.5	36.6	38.7	40.9	32.4	34.5	36.3	38.0	39.8	41.6	35.2	36.6	38.0	32.7	35.2	37.3	32.4	35.2	38.0	40.2	32.4	35.2	38.0	40.9
	#7	35.0	37.1	39.2	41.4	32.9	35.0	36.8	38.5	40.3	42.1	35.7	37.1	38.5	33.2	35.7	37.8	32.9	35.7	38.5	40.7	32.9	35.7	38.5	41.4

Unit: mm

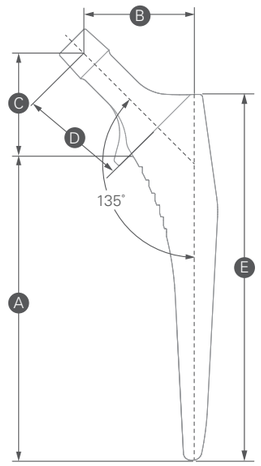
Appendix

Head Size		Co-Cr-Mo 22 mm				Co-Cr-Mo 28 / 32 / 36 mm						Ceramic 22 mm			Ceramic 28 mm			Ceramic 32 mm				Ceramic 36 / 40 mm			
Head Offset		0	3	6	9	-3	0	2.5	5	7.5	10	1	3	5	-2.5	1	4	-3	1	5	8	-3	1	5	9
Coxa Vara Standard (#0-#7)	#0	35.5	38.0	40.4	42.9	33.0	35.5	37.5	39.6	41.6	43.7	36.3	38.0	39.6	33.5	36.3	38.8	33.0	36.3	39.6	42.1	33.0	36.3	39.6	42.9
	#1	36.0	38.5	40.9	43.4	33.5	36.0	38.0	40.1	42.1	44.2	36.8	38.5	40.1	34.0	36.8	39.3	33.5	36.8	40.1	42.6	33.5	36.8	40.1	43.4
	#2	36.5	39.0	41.4	43.9	34.0	36.5	38.5	40.6	42.6	44.7	37.3	39.0	40.6	34.5	37.3	39.8	34.0	37.3	40.6	43.1	34.0	37.3	40.6	43.9
	#3	37.5	40.0	42.4	44.9	35.0	37.5	39.5	41.6	43.6	45.7	38.3	40.0	41.6	35.5	38.3	40.8	35.0	38.3	41.6	44.1	35.0	38.3	41.6	44.9
	#4	38.0	40.5	42.9	45.4	35.5	38.0	40.0	42.1	44.1	46.2	38.8	40.5	42.1	36.0	38.8	41.3	35.5	38.8	42.1	44.6	35.5	38.8	42.1	45.4
	#5	39.0	41.5	43.9	46.4	36.5	39.0	41.0	43.1	45.1	47.2	39.8	41.5	43.1	37.0	39.8	42.3	36.5	39.8	43.1	45.6	36.5	39.8	43.1	46.4
	#6	39.5	42.0	44.4	46.9	37.0	39.5	41.5	43.6	45.6	47.7	40.3	42.0	43.6	37.5	40.3	42.8	37.0	40.3	43.6	46.1	37.0	40.3	43.6	46.9
	#7	40.0	42.5	44.9	47.4	37.5	40.0	42.0	44.1	46.1	48.2	40.8	42.5	44.1	38.0	40.8	43.3	37.5	40.8	44.1	46.6	37.5	40.8	44.1	47.4
Coxa Vara High Offset (#2-#11)	#2	43.5	46.0	48.4	50.9	41.0	43.5	45.5	47.6	49.6	51.7	44.3	46.0	47.6	41.5	44.3	46.8	41.0	44.3	47.6	50.1	41.0	44.3	47.6	50.9
	#3	44.5	47.0	49.4	51.9	42.0	44.5	46.5	48.6	50.6	52.7	45.3	47.0	48.6	42.5	45.3	47.8	42.0	45.3	48.6	51.1	42.0	45.3	48.6	51.9
	#4	45.0	47.5	49.9	52.4	42.5	45.0	47.0	49.1	51.1	53.2	45.8	47.5	49.1	43.0	45.8	48.3	42.5	45.8	49.1	51.6	42.5	45.8	49.1	52.4
	#5	46.0	48.5	50.9	53.4	43.5	46.0	48.0	50.1	52.1	54.2	46.8	48.5	50.1	44.0	46.8	49.3	43.5	46.8	50.1	52.6	43.5	46.8	50.1	53.4
	#6	46.5	49.0	51.4	53.9	44.0	46.5	48.5	50.6	52.6	54.7	47.3	49.0	50.6	44.5	47.3	49.8	44.0	47.3	50.6	53.1	44.0	47.3	50.6	53.9
	#7	47.0	49.5	51.9	54.4	44.5	47.0	49.0	51.1	53.1	55.2	47.8	49.5	51.1	45.0	47.8	50.3	44.5	47.8	51.1	53.6	44.5	47.8	51.1	54.4
	#8	48.0	50.5	52.9	55.4	45.5	48.0	50.0	52.1	54.1	56.2	48.8	50.5	52.1	46.0	48.8	51.3	45.5	48.8	52.1	54.6	45.5	48.8	52.1	55.4
	#9	48.5	51.0	53.4	55.9	46.0	48.5	50.5	52.6	54.6	56.7	49.3	51.0	52.6	46.5	49.3	51.8	46.0	49.3	52.6	55.1	46.0	49.3	52.6	55.9
	#10	49.5	52.0	54.4	56.9	47.0	49.5	51.5	53.6	55.6	57.7	50.3	52.0	53.6	47.5	50.3	52.8	47.0	50.3	53.6	56.1	47.0	50.3	53.6	56.9
	#11	50.5	53.0	55.4	57.9	48.0	50.5	52.5	54.6	56.6	58.7	51.3	53.0	54.6	48.5	51.3	53.8	48.0	51.3	54.6	57.1	48.0	51.3	54.6	57.9

Unit: mm

Order Information

		Catalog Number / Size		Catalog Number / Size
Conformity, Collared				
Standard	**High Offset**	**Standard**		**High Offset**
		1110 - 1000	# 0	
		1110 - 1001	# 1	1110 - 1201 # 1
		1110 - 1002	# 2	1110 - 1202 # 2
		1110 - 1003	# 3	1110 - 1203 # 3
		1110 - 1004	# 4	1110 - 1204 # 4
		1110 - 1005	# 5	1110 - 1205 # 5
		1110 - 1006	# 6	1110 - 1206 # 6
		1110 - 1007	# 7	1110 - 1207 # 7
		1110 - 1008	# 8	1110 - 1208 # 8
		1110 - 1009	# 9	1110 - 1209 # 9
		1110 - 1010	# 10	1110 - 1210 # 10
		1110 - 1011	# 11	1110 - 1211 # 11
Conformity, Collarless				
Standard	**High Offset**	**Standard**		**High Offset**
		1110 - 3000	# 0	
		1110 - 3001	# 1	1110 - 3201 # 1
		1110 - 3002	# 2	1110 - 3202 # 2
		1110 - 3003	# 3	1110 - 3203 # 3
		1110 - 3004	# 4	1110 - 3204 # 4
		1110 - 3005	# 5	1110 - 3205 # 5
		1110 - 3006	# 6	1110 - 3206 # 6
		1110 - 3007	# 7	1110 - 3207 # 7
		1110 - 3008	# 8	1110 - 3208 # 8
		1110 - 3009	# 9	1110 - 3209 # 9
		1110 - 3010	# 10	1110 - 3210 # 10
		1110 - 3011	# 11	1110 - 3211 # 11



Collared & Collarless

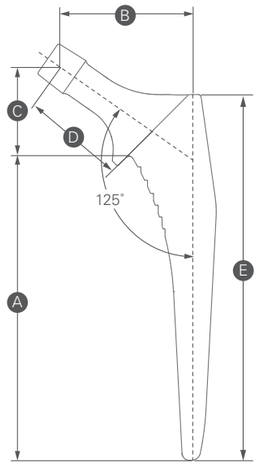
Size	A Medial Length	B Offset		C Vertical Height	D Neck Length		E Lateral Length
		Standard	High Offset		Standard	High Offset	
# 0	90.5	35.5	-	34.0	35.5	-	110.5
# 1	95.0	36.0	43.0	34.0	35.5	40.5	115.0
# 2	99.5	36.5	43.5	34.0	35.5	40.5	119.5
# 3	104.0	37.5	44.5	34.0	35.5	40.5	124.0
# 4	108.5	38.0	45.0	34.0	35.5	40.5	128.5
# 5	113.0	39.0	46.0	34.0	35.5	40.5	133.0
# 6	117.5	39.5	46.5	34.0	35.5	40.5	137.5
# 7	122.0	40.0	47.0	34.0	35.5	40.5	142.0
# 8	126.5	41.0	48.0	34.0	35.5	40.5	146.5
# 9	131.0	41.5	48.5	34.0	35.5	40.5	151.0
# 10	135.5	42.5	49.5	34.0	35.5	40.5	155.5
# 11	140.0	43.5	50.5	34.0	35.5	40.5	160.0

Unit: mm

Order Information

Conformity, Coxa Vara	Catalog Number / Size	Catalog Number / Size
	Standard	**High Offset**
Standard 125°	1110 - 5000* # 0	
	1110 - 5001* # 1	
	1110 - 5002* # 2	
	1110 - 5003* # 3	
	1110 - 5004* # 4	
	1110 - 5005* # 5	
	1110 - 5006* # 6	
	1110 - 5007* # 7	
High Offset 125°		1110 - 5202 # 2
		1110 - 5203 # 3
		1110 - 5204 # 4
		1110 - 5205 # 5
		1110 - 5206 # 6
		1110 - 5207 # 7
		1110 - 5208 # 8
		1110 - 5209 # 9
		1110 - 5210 # 10
		1110 - 5211 # 11

* Items not commercially available in EU market under regulatory of CE MDR



Coxa Vara, Standard & High Offset

Size	A Medial Length		B Offset		C Vertical Height		D Neck Length		E Lateral Length	
	Standard	High Offset	Standard	High Offset	Standard	High Offset	Standard	High Offset	Standard	High Offset
# 0	90.5	-	35.5	-	29.0	-	32.5	-	110.5	-
# 1	95.0	-	36.0	-	29.0	-	32.5	-	115.0	-
# 2	99.5	99.5	36.5	43.5	29.0	29.0	32.5	37.5	119.5	119.5
# 3	104.0	104.0	37.5	44.5	29.0	29.0	32.5	37.5	124.0	124.0
# 4	108.5	108.5	38.0	45.0	29.0	29.0	32.5	37.5	128.5	128.5
# 5	113.0	113.0	39.0	46.0	29.0	29.0	32.5	37.5	133.0	133.0
# 6	117.5	117.5	39.5	46.5	29.0	29.0	32.5	37.5	137.5	137.5
# 7	122.0	122.0	40.0	47.0	29.0	29.0	32.5	37.5	142.0	142.0
# 8	-	126.5	-	48.0	-	29.0	-	37.5	-	146.5
# 9	-	131.0	-	48.5	-	29.0	-	37.5	-	151.0
# 10	-	135.5	-	49.5	-	29.0	-	37.5	-	155.5
# 11	-	140.0	-	50.5	-	29.0	-	37.5	-	160.0

Unit: mm

Order Information

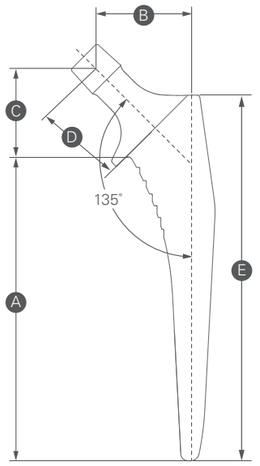
	Catalog Number	Size
Conformity, Short Neck		
	**Short Neck**	
	1110 - 1400	# 0
	1110 - 1401	# 1
	1110 - 1402	# 2
	1110 - 1403	# 3
	1110 - 1404*	# 4
	1110 - 1405*	# 5
	1110 - 1406*	# 6
	1110 - 1407*	# 7

Conformity, Cemented

Standard	High Offset	Standard	High Offset	
		1110 - 7001	1110 - 7201	# 1
		1110 - 7002	1110 - 7202	# 2
		1110 - 7003	1110 - 7203	# 3
		1110 - 7004	1110 - 7204	# 4
		1110 - 7005	1110 - 7205	# 5
		1110 - 7006	1110 - 7206	# 6
		1110 - 7007	1110 - 7207	# 7
		1110 - 7008	1110 - 7208	# 8
		1110 - 7009	1110 - 7209	# 9
		1110 - 7010	1110 - 7210	# 10

	Catalog Number	Size	Canal Size (mm)
Cement Restrictor, I-Type			
	1907 - 1008	# 8	8 - 9
	1907 - 1010	# 10	10 - 11
	1907 - 1012	# 12	12 - 13
	1907 - 1014	# 14	14 - 15
	1907 - 1016	# 16	16 - 17
	1907 - 1018	# 18	18 - 19

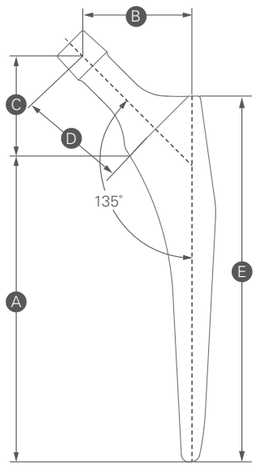
* Items not commercially available in EU market under regulatory of CE MDR



Short Neck

Size	A Medial Length	B Offset	C Vertical Height	D Neck Length	E Lateral Length
# 0	90.5	30.5	29.0	28.5	110.5
# 1	95.0	31.0	29.0	28.5	115.0
# 2	99.5	31.5	29.0	28.5	119.5
# 3	104.0	32.5	29.0	28.5	124.0
# 4	108.5	33.0	29.0	28.5	128.5
# 5	113.0	34.0	29.0	28.5	133.0
# 6	117.5	34.5	29.0	28.5	137.5
# 7	122.0	35.0	29.0	28.5	142.0

Unit: mm

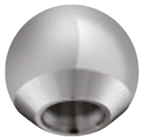


Cemented

Size	A Medial Length	B Offset		C Vertical Height	D Neck Length		E Lateral Length
		Standard	High Offset		Standard	High Offset	
# 1	95.0	36.0	43.0	34.0	35.5	40.5	115.0
# 2	99.5	36.5	43.5	34.0	35.5	40.5	119.5
# 3	104.0	37.5	44.5	34.0	35.5	40.5	124.0
# 4	108.5	38.0	45.0	34.0	35.5	40.5	128.5
# 5	113.0	39.0	46.0	34.0	35.5	40.5	133.0
# 6	117.5	39.5	46.5	34.0	35.5	40.5	137.5
# 7	122.0	40.0	47.0	34.0	35.5	40.5	142.0
# 8	126.5	41.0	48.0	34.0	35.5	40.5	146.5
# 9	131.0	41.5	48.5	34.0	35.5	40.5	151.0
# 10	135.5	42.5	49.5	34.0	35.5	40.5	155.5

Unit: mm

Femoral Head

	Catalog Number	Diameter (mm)	Offset (mm)
U2 Femoral Head	1206 - 1122	* Ø 22	+ 0
	1206 - 1322	* Ø 22	+ 3
	1206 - 1522	* Ø 22	+ 6
	1206 - 1722	* Ø 22	+ 9
	1206 - 1026	Ø 26	- 2
	1206 - 1126	Ø 26	+ 0
	1206 - 1326	Ø 26	+ 3
	1206 - 1526	Ø 26	+ 6
	1206 - 1726	Ø 26	+ 9
	1206 - 1028	Ø 28	- 3
	1206 - 1128	Ø 28	+ 0
	1206 - 1228	Ø 28	+ 2.5
	1206 - 1428	Ø 28	+ 5
	1206 - 1628	Ø 28	+ 7.5
	1206 - 1828	Ø 28	+ 10
	1206 - 1032	Ø 32	- 3
	1206 - 1132	Ø 32	+ 0
	1206 - 1232	Ø 32	+ 2.5
	1206 - 1432	Ø 32	+ 5
	1206 - 1632	Ø 32	+ 7.5
	1206 - 1832	Ø 32	+ 10
	1206 - 1036	Ø 36	- 3
	1206 - 1136	Ø 36	+ 0
	1206 - 1236	Ø 36	+ 2.5
	1206 - 1436	Ø 36	+ 5
	1206 - 1636	Ø 36	+ 7.5
	1206 - 1836	Ø 36	+ 10

* The actual spherical diameter of a 22 mm head is 22.2 mm.

Femoral Head

	Catalog Number	Diameter (mm)		Offset (mm)
BIOLOX® *delta* Ceramic Head	1203 - 5022	* Ø 22	S	+ 1
	1203 - 5222	* Ø 22	M	+ 3
	1203 - 5422	* Ø 22	L	+ 5
	1203 - 5028	Ø 28	S	- 2.5
	1203 - 5228	Ø 28	M	+ 1
	1203 - 5428	Ø 28	L	+ 4
	1203 - 5032	Ø 32	S	- 3
	1203 - 5232	Ø 32	M	+ 1
	1203 - 5432	Ø 32	L	+ 5
	1203 - 5632	Ø 32	XL	+ 8
	1203 - 5036	Ø 36	S	- 3
	1203 - 5236	Ø 36	M	+ 1
	1203 - 5436	Ø 36	L	+ 5
	1203 - 5636	Ø 36	XL	+ 9
	1203 - 5040	Ø 40	S	- 3
	1203 - 5240	Ø 40	M	+ 1
	1203 - 5440	Ø 40	L	+ 5
	1203 - 5640	Ø 40	XL	+ 9

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* DO NOT couple 22 mm ceramic head with Conformity cemented femoral stems.

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The CE mark is valid only if it is also printed on the product label.

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