



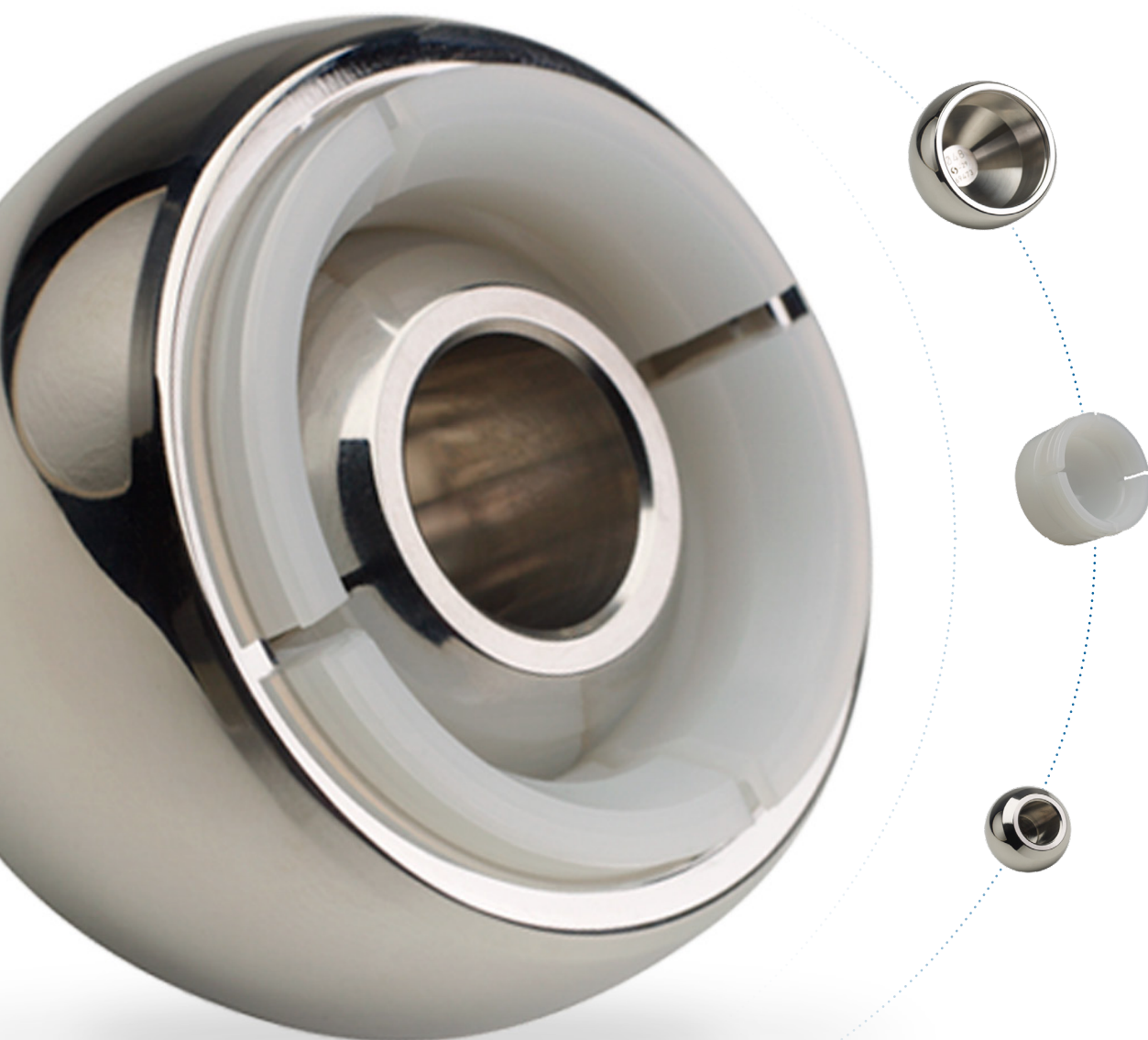
# Biarticular Head

for Ø 28 mm femoral head

SURGICAL TECHNIQUE

# The **biarticular head**...

*also named bipolar or bicentral, is an alternative to total hip arthroplasty, indicated in the treatment of displaced femoral neck or femoral head fractures. This system allows to reduce friction in the acetabular cartilage by the direct contact of the metallic head.*



## **Advantages:**

- Low Surgical Trauma
- Increased dislocation safety
- Straightforward surgical technique
- Preservation of the natural acetabulum
- Rapid mobilisation and swift rehabilitation

## DESCRIPTION

The biarticular head features a metallic cup, that is in contact with the acetabulum, and one insert in polyethylene which contains the femoral head inside. There are two articulations made: one between acetabulum and cup, and another between the insert and the femoral head.

**The cup** is made of stainless steel (AISI 316 LVM), and is presented in 17 sizes from 39 to 55 mm, with a cadence of 1 mm.

**The insert** is made of polyethylene of a ultra high molecular weight (UHMWPE). It is presented in four sizes with an internal diameter of 28 mm.

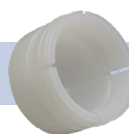
## IMPLANTS



### Biarticular Cup

Material: Stainless Steel AISI 316 LVM

A	Ø 39 mm	A1519039E
	Ø 40 mm	A1519040E
	Ø 41 mm	A1519041E
	Ø 42 mm	A1519042E
	Ø 43 mm	A1519043E
B	Ø 44 mm	A1519044E
	Ø 45 mm	A1519045E
	Ø 46 mm	A1519046E
C	Ø 47 mm	A1519047E
	Ø 48 mm	A1519048E
	Ø 49 mm	A1519049E
	Ø 50 mm	A1519050E
D	Ø 51 mm	A1519051E
	Ø 52 mm	A1519052E
	Ø 53 mm	A1519053E
	Ø 54 mm	A1519054E
	Ø 55 mm	A1519055E



### Biarticular Insert

Material: P.E. UHMWPE

	Biarticular Cup Size	Insert Ref.
A	39 - 40 - 41 - 42 - 43	A1519141E
B	44 - 45 - 46	A1519144E
C	47 - 48 - 49 - 50	A1519147E
D	51 - 52 - 53 - 54 - 55	A1519151E



### Femoral Head

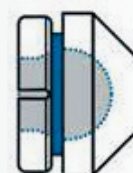
Material: Stainless Steel AISI 316 LVM

#### Ø 28 mm - Taper 12/14

Short Neck	A1509040E
Medium Neck	A1509041E
Long Neck	A1509042E
XL Neck	A1509043E



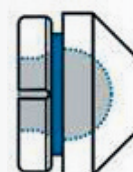
### BIARTICULAR CUP



**A1519141E  
INSERT**

Ø 28 mm head

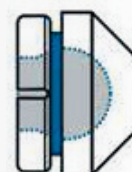
### BIARTICULAR CUP



**A1519144E  
INSERT**

Ø 28 mm head

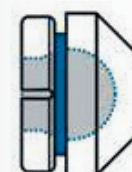
### BIARTICULAR CUP



**A1519147E  
INSERT**

Ø 28 mm head

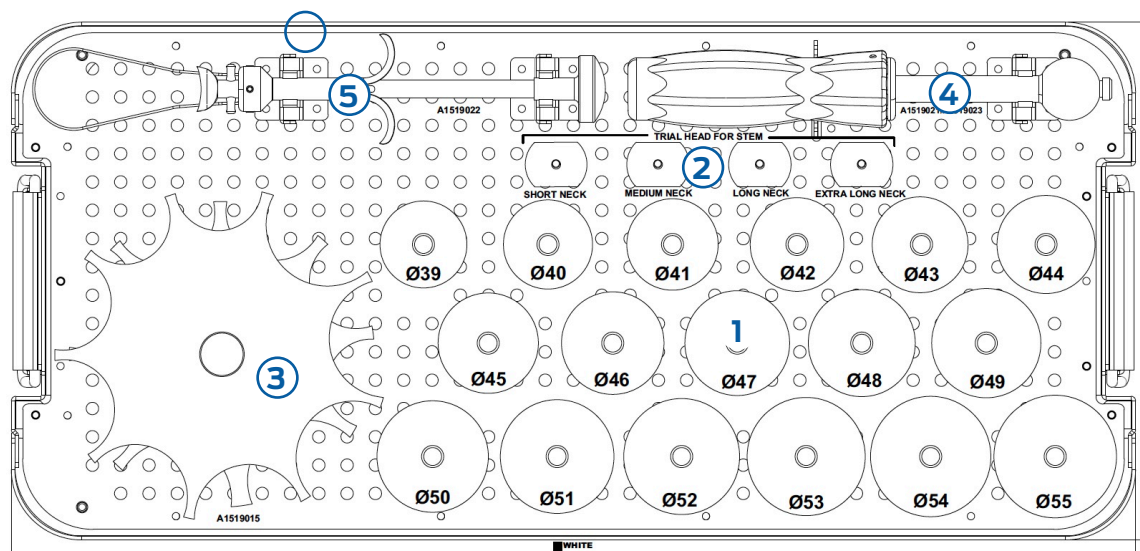
### BIARTICULAR CUP



**A1519151E  
INSERT**

Ø 28 mm head

# INSTRUMENTS



Biarticular instrumentation complete set

A1519030

## 1 Trial Biarticular Cup

Ø 39 mm	A1519539
Ø 40 mm	A1519540
Ø 41 mm	A1519541
Ø 42 mm	A1519542
Ø 43 mm	A1519543
Ø 44 mm	A1519544
Ø 45 mm	A1519545
Ø 46 mm	A1519546
Ø 47 mm	A1519547
Ø 48 mm	A1519548
Ø 49 mm	A1519549
Ø 50 mm	A1519550
Ø 51 mm	A1519551
Ø 52 mm	A1519552
Ø 53 mm	A1519553
Ø 54 mm	A1519554
Ø 55 mm	A1519555

## 2 Trial Femoral Heads

Short Neck 12/14 taper	A1536140
Medium Neck 12/14 taper	A1536141
Long Neck 12/14 taper	A1536142
Extra Long Neck 12/14 taper	A1536143

## 3 Tester Disc (even/odd)

even/odd sizes	A1519015
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## 4 Positioner-Extractor

A1519021

## 5 Extractor for biarticular insert

A1519022



## SURGICAL TECHNIQUE STEPS

For detailed steps on the femoral preparation and implantation, please, refer to the femoral implant's specific surgical technique.

- 1 Determine the size of the biarticular implant using the tester disc with the resected femoral head.



- 2 With the positioner-extractor screwed into the biarticular trial head, assess the correct movement and size choice in the acetabulum.

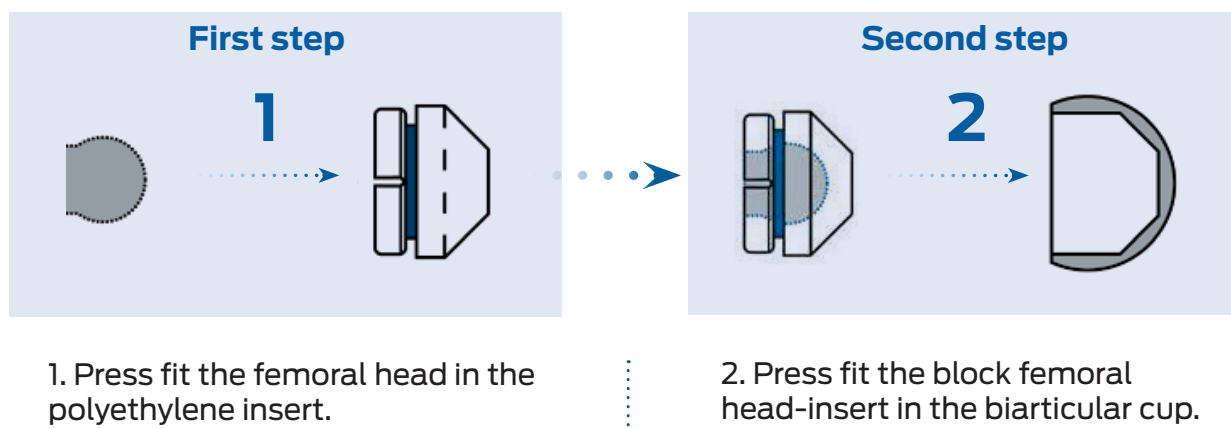


- 3 Make the reduction with the selected biarticular trial head and the Ø 28 mm trial femoral head (four length neck options: short, medium, long and extralong). Trial femoral heads available in the box are 12/14 neck.



Note: When implanting a Surgival's stem, trial reduction can be performed also on the rasps. Trial femoral heads for rasps are available in the stem instrumentation.

- 4** Assemble the final implants of the choosen sizes following the next steps:



Note: Assemble the femoral head, insert and cup on the instrumentation table.

- 5** Impact the assembled biarticular components on the stem and reduce the articulation.

- !** In case you need to disassemble the biarticular components use the extractor for biarticular insert.





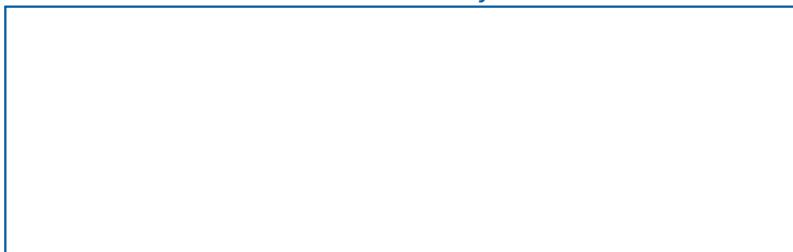
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