

acetabular cage

amplitude



**Surgical Technique**

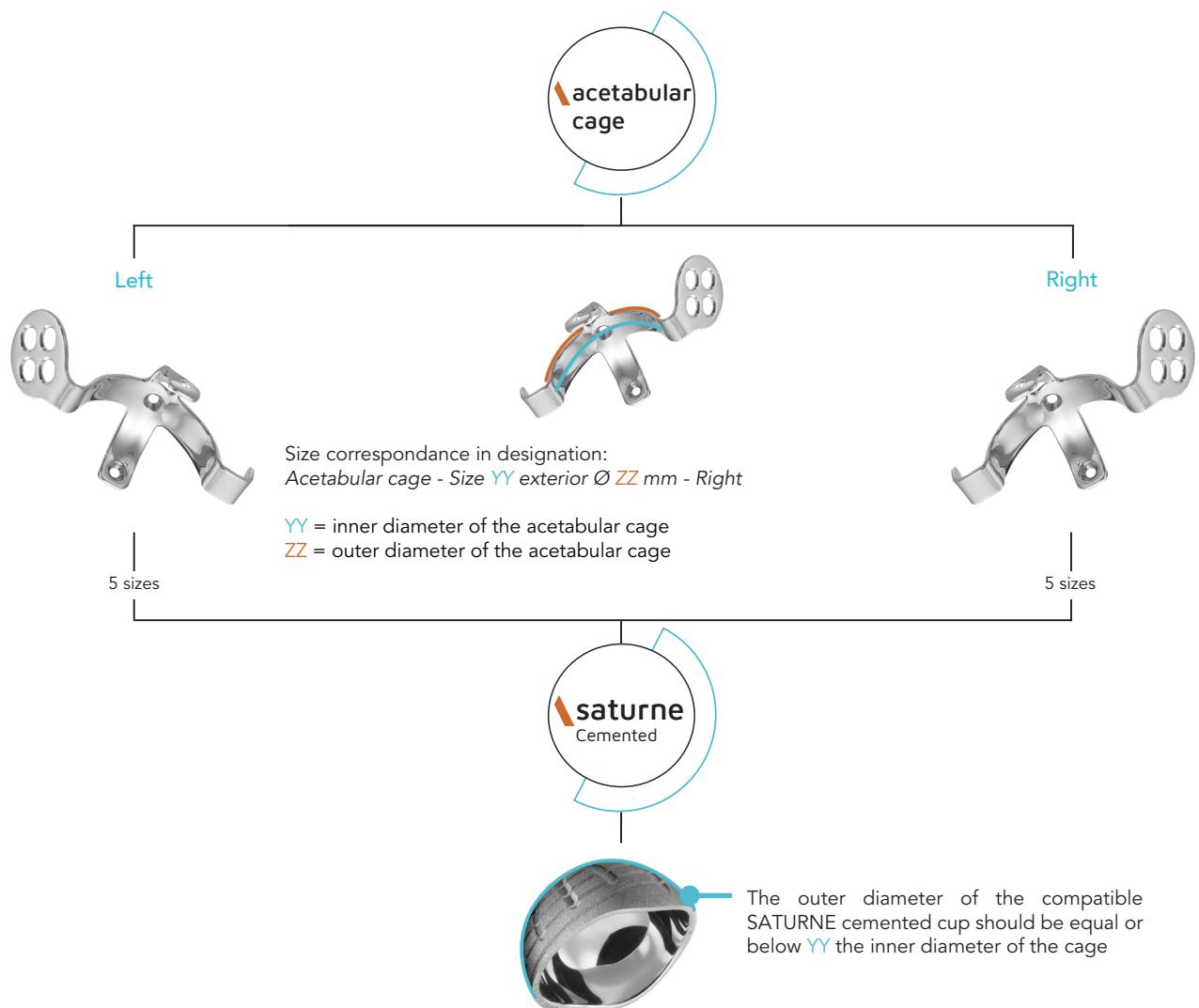


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# Concept and Range



## Pairing chart

		SATURNE cemented size								
		Ø44 mm	Ø46 mm	Ø48 mm	Ø50 mm	Ø52 mm	Ø54 mm	Ø56 mm	Ø58 mm	Ø60 mm
Acetabular cage size	Size 44 ext. Ø48									
	Size 48 ext. Ø52									
	Size 52 ext. Ø56									
	Size 56 ext. Ø60									
	Size 60 ext. Ø64									



Compatible size

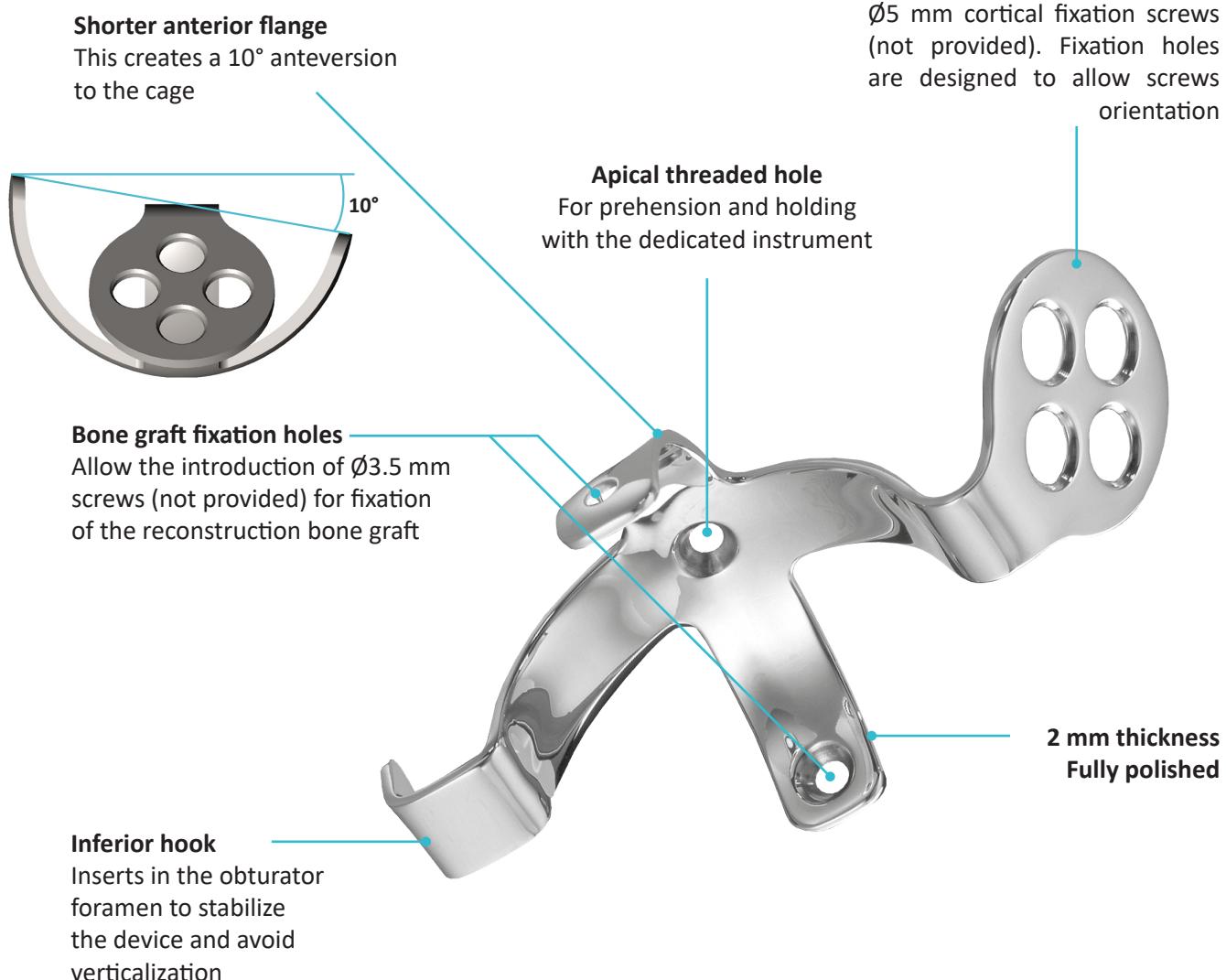


Compatible size with cement mantle  $\geq 3$  mm

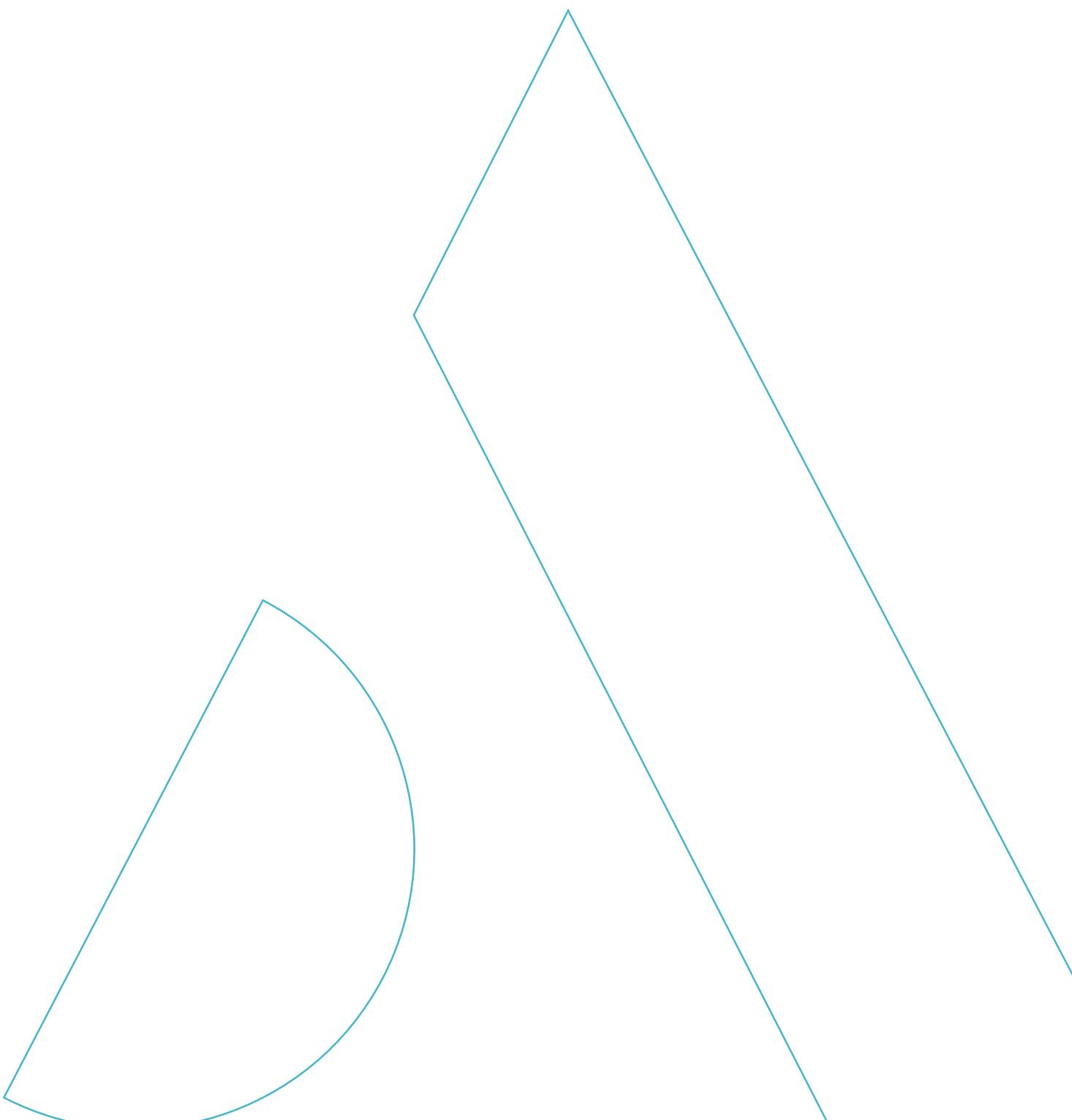
# Concept and Range

## Acetabular reinforcement cage

The acetabular cage is a solution indicated for reconstruction of the acetabular bone, to be paired with the SATURNE cemented cup



Material = Stainless steel M25W



# 1 Acetabular preparation

Widely expose the acetabular cavity to retrieve any adherent cement debris (in case of cemented cup revision). Carefully clean the bone cavity. If reaming is necessary, it is recommended to ream softly the peripheral bone of the acetabulum, so as to preserve bone stock that is probably already weakened.

## REMINDER

The purpose of this surgical technique description is to provide instructions on how to use the instrumentation properly. The surgeon is fully responsible for choosing and performing the approach and surgical technique.

## NOTE

The acetabular cage can be implanted with any surgical approach, and either before or after femoral preparation has been performed.

# 2 Selection of Trial Acetabular Cage

Select the Trial Acetabular Cage that better fits the anatomical acetabulum. Dimension of the acetabulum can help select the most appropriate size.

Assemble Acetabular Cage Handle with the Universal Handle, screw the Trial Acetabular cage on the assembly, and insert it inside the acetabulum: position the implant in the vertical plane, beginning with the hook on the apex of obturator foramen, then place the plate. Position the cage in the horizontal plane with the anterior and posterior flanges, trying to place the implant as close as possible to the bony wall. If necessary, remove any bone debris that could prevent from placing the implant properly, until the trial implant sits in the acetabulum. Check that the hook is in a strictly frontal plane. The alignment guide can be mounted on the Universal Handle if desired.

In case of small or large defects of the superior wall, the Trial Acetabular Cage should sit at distance from bone on its superior aspect. In this case it is recommended not to position it more vertical than 45°, and not to put the plate that includes 4 holes in contact with bone (this could lead to hook extraction), nor to bend the plate to adapt defects. It should serve as a reference to check and quantify bony defects, and the size and quantity of fragments that will be used for acetabular reconstruction.

Once this is done, remove the trial acetabular cage.

## 3 Acetabular Cage positionning

Position the final acetabular cage on the prepared cavity, along with necessary and previously quantified bone graft. It can be assembled and held with the Acetabular Cage Handle assembled on the Universal Handle if necessary. The alignment guide can be mounted on the Universal Handle if desired.

Check that the implant position is correct, apply manual pressure on the cage and fix it to iliac bone using Ø4,5mm or Ø5mm cortical screws on its superior plate. Begin with the hole that is closest to the hook, and screw up and back in sacro-iliac direction (it must not reach it). Before tightening it firmly, screw another one in the anterior hole and tighten it to stabilize the implant.

Tighten firmly the two screws while keeping manual pressure on the implant. It is recommended to go through the grafts with the screws, until the tightening pushes it against the bone.

Screws placement will put stress on the acetabular cage. If the hook tends to get out from its place, the superior graft height is probably not thick enough. In this case it is recommended to add a graft or put a thicker one on the superior aspect, under the plate. Screw again until the implant seats properly into the bone cavity.

Remodel the lateral wall of the acetabulum thanks to bone graft that will fill the gaps between the flanges and bone cavity. If necessary, it is possible to fix them to the acetabular cage thanks to Ø3,5mm screws in the dedicated holes on each flange.

Morcellized cancellous bone should then be packed between interstices on pubis, ischium and between grafts.

## 4 Final cup insertion

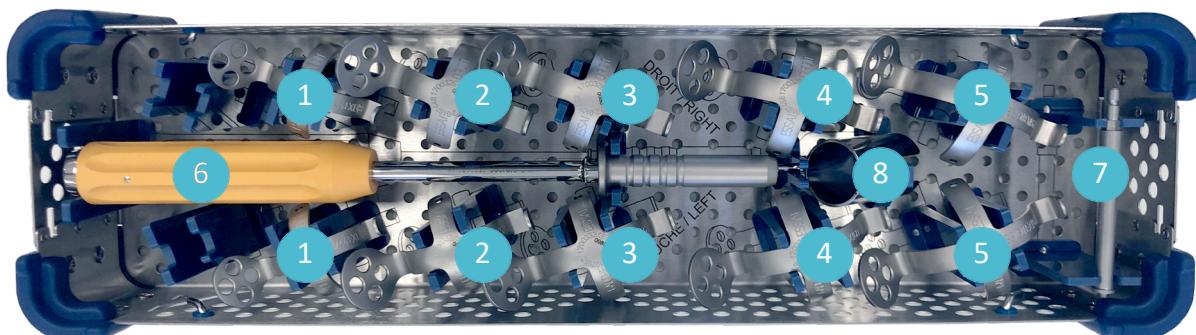
Clean the bone cavity remodelled with the acetabular cage, and check the proper fixation of grafts.

Position the trial cup of the proper size (for size selection, please refer to the table on page 5).

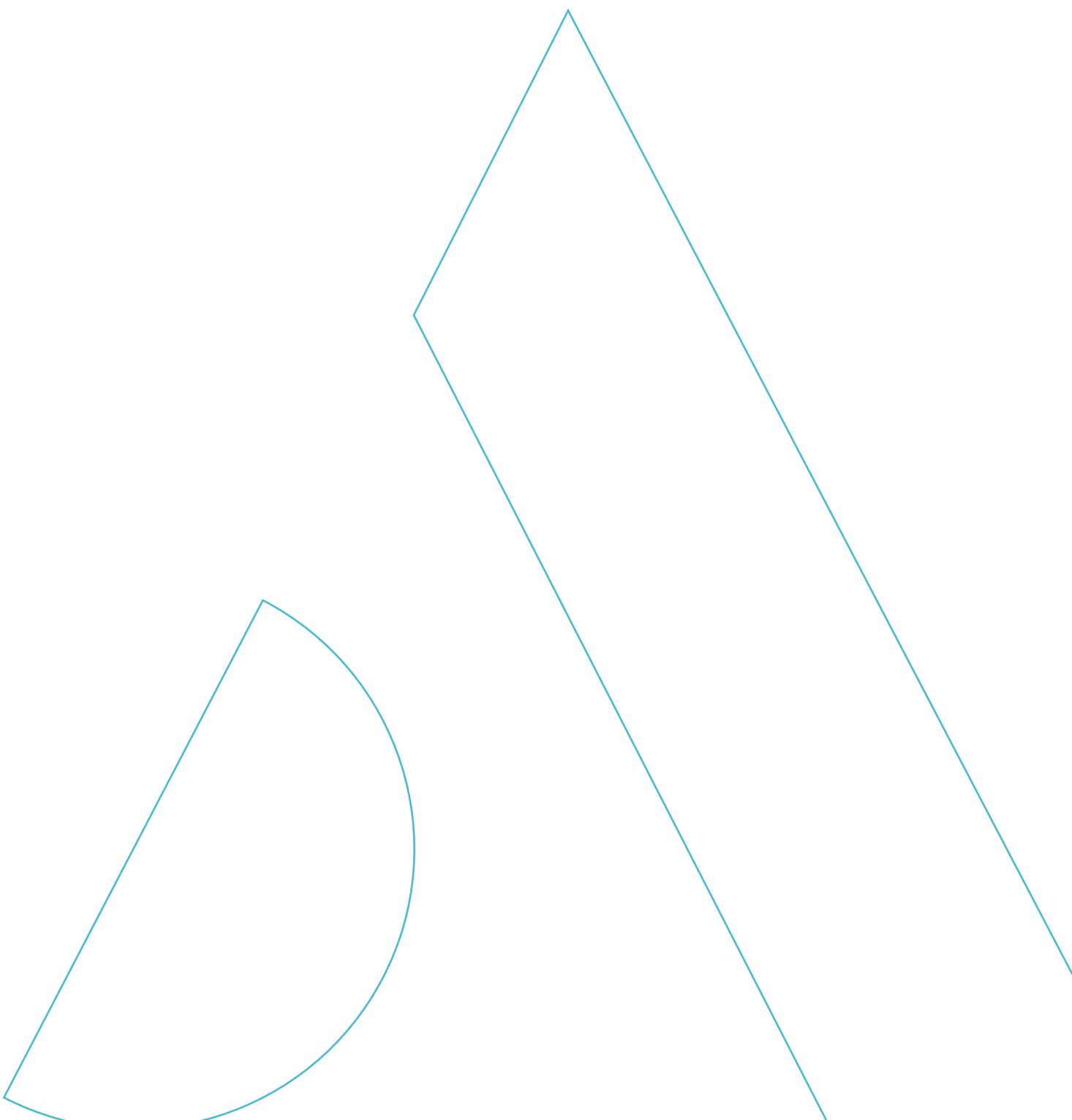
Once the size has been validated, remove the trial cup and proceed to the cementation and insertion of the final cup. Refer to the dedicated surgical technique of SATURNE cemented cup for more information on the insertion of the cup and stability trials.

# Instrumentation

## Acetabular Cage Left and Right side



Rep	Description	Reference		Qty
		Left	Right	
1	Trial acetabular reconstruction cage - Size <b>44</b> external Ø 48 mm	2-0107544	2-0107444	1
2	Trial acetabular reconstruction cage - Size <b>48</b> external Ø 52 mm	2-0107548	2-0107448	1
3	Trial acetabular reconstruction cage - Size <b>52</b> external Ø 56 mm	2-0107552	2-0107452	1
4	Trial acetabular reconstruction cage - Size <b>56</b> external Ø 60 mm	2-0107556	2-0107456	1
5	Trial acetabular reconstruction cage - Size <b>60</b> external Ø 64 mm	2-0107560	2-0107460	1
6	Universal Handle	2-0101000		1
7	Acetabular Reconstruction Cage Handle	2-0108800		1
8	Cup Alignment Guide	2-0102000		1





**Service Clients – France:**

Porte du Grand Lyon,  
01700 Neyron – France  
Tél. : **+33 (0)4 37 85 19 19**  
Fax : +33 (0)4 37 85 19 18  
E-mail : [amplitude@amplitude-ortho.com](mailto:amplitude@amplitude-ortho.com)

**Customer Service – Export :**

[www.amplitude-ortho.com](http://www.amplitude-ortho.com)

11, cours Jacques  
Offenbach, ZA Mozart 2,  
26000 Valence – France  
Tél. : **+33 (0)4 75 41 87 41**  
Fax : +33 (0)4 75 41 87 42



<https://eifu.amplitude-ortho.com>