

E v o l u t i s  
C R E A T E U R F A B R I C A N T

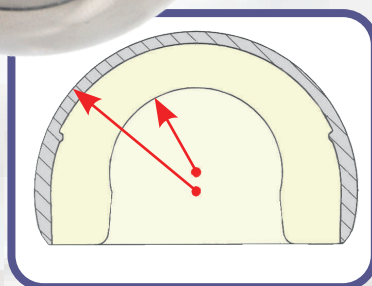
Moonstone®



MOONSTONE  
with locking ring  
à bague



MOONSTONE  
constrained  
rétentive



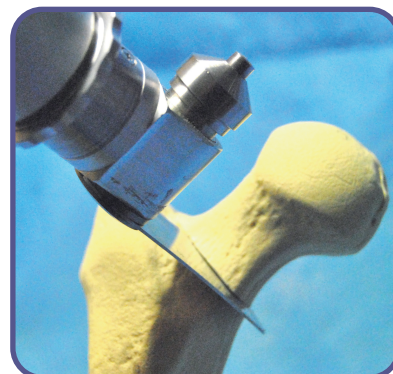
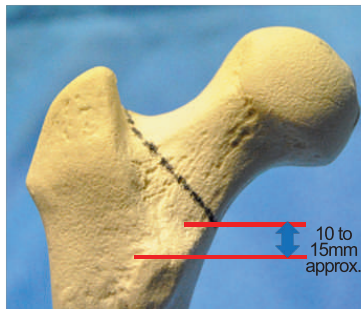
Surgical Technique

Evolutis  
MOTION INSIDE

The purpose of this Surgical Technique document is to ensure a correct use of the instruments and to make the surgery easier.  
The surgeon will adapt according to his practice.

## 1- Resection of the Femoral Head

Following the usual surgical approach to the hip joint, the surgeon will begin by resecting (primary arthroplasty) or removing (acute trauma) the femoral head from the acetabulum.



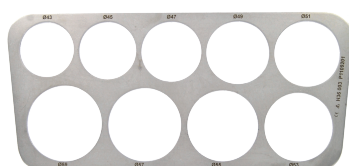
## 2- Femoral Preparation

The MOONSTONE bi-polar cup must be used with a femoral stem and a 22.2 or 28mm femoral head. The femoral preparation and implantation of final femoral implant and femoral head is identical to any hip arthroplasty procedure. Please refer to the surgical technique manual of the femoral stem used.



## 3- Femoral Head Sizing

The resected femoral head should be measured in order to select the final size of the Moonstone bi-polar cup. Depending on the instrument available in the hospital, the sizing can be made with the Caliper Plate (H36 003) or with the Head Sizing Gauge (H36 001).



**Caliper Plate H36 003**



**Head Sizing Gauge H36 001**



**Locking Ring Forceps  
S01 006**

#### 4- Assembly of Moonstone cup with femoral head

Depending of the version of the Moonstone cup, the femoral head will need to be assembled with the cup, then locked with the locking ring forceps (S01 006) or forced into the cup with the liner press (H52 033) and its components.

##### 4.1 : Assembly of the Locking Ring cup

- Remove the locking ring from the cup using the forceps
- Introduce the femoral head into the cup
- Re-position the locking ring into its groove and release the forceps
- Check that the locking ring is in correct position

##### 4.2 : Assembly of the Constrained cup

- Prepare the liner press with all four components
- Position the cup upside down on the impactor tip
- Position the femoral head upside down on the cup
- Press the femoral head into the cup by turning the press screw until the femoral head is impacted into the cup

**Liner Press and  
components  
H52 030, H52 031,  
H52 033, H52 035**



#### 5- Positioning of the cup/head assembly on the stem

Once the femoral head is constrained in the Moonstone cup, make sure that the taper end of the femoral head is facing the operator.

Then bring the head/cup assembly onto the femoral stem taper and connect the head to the stem.

Assemble the Impactor Shaft (H01 023) and the Cup Impactor Tip (H36 002), and hammer on the cup to impact the femoral head on the femoral stem.



#### 6- Reduction of the cup into the hip joint

Use the same Impactor Shaft and Impactor Tip to push the cup into the native acetabulum. Check that the cup moves freely into the acetabulum. Test for mobility and stability. Close the wound.





# References

Bipolar Cup with ring <i>Cupule Bipolaire à bague</i>		
Inner $\varnothing$ Interne	Shell $\varnothing$ Cupule	Cat. N°
<b><math>\varnothing 22.2</math></b>	$\varnothing 39$	H35 2239
	$\varnothing 40$	H35 2240*
	$\varnothing 41$	H35 2241
	$\varnothing 42$	H35 2242*
	$\varnothing 43$	H35 2243
	$\varnothing 44$	H35 2244*
<b><math>\varnothing 28</math></b>	$\varnothing 45$	H35 2245
	$\varnothing 43$	H35 2843
	$\varnothing 44$	H35 2844*
	$\varnothing 45$	H35 2845
	$\varnothing 46$	H35 2846*
	$\varnothing 47$	H35 2847
	$\varnothing 48$	H35 2848*
	$\varnothing 49$	H35 2849
	$\varnothing 50$	H35 2850*
	$\varnothing 51$	H35 2851
	$\varnothing 52$	H35 2852*
	$\varnothing 53$	H35 2853
	$\varnothing 54$	H35 2854*
	$\varnothing 55$	H35 2855
	$\varnothing 56$	H35 2856*
	$\varnothing 57$	H35 2857
	$\varnothing 59$	H35 2859
	$\varnothing 60$	H35 2860*

Bipolar Cup constrained <i>Cupule Bipolaire rétentive</i>		
Inner $\varnothing$ Interne	Shell $\varnothing$ Cupule	Cat. N°
<b><math>\varnothing 28</math></b>	$\varnothing 43$	H35 R2843
	$\varnothing 45$	H35 R2845
	$\varnothing 47$	H35 R2847
	$\varnothing 49$	H35 R2849
	$\varnothing 51$	H35 R2851
	$\varnothing 53$	H35 R2853
	$\varnothing 55$	H35 R2855
	$\varnothing 57$	H35 R2857
	$\varnothing 59$	H35 R2859

Instrumentation		
System / Système	Description	Cat. N°
Common <i>Commun</i>	Head sizing gauge <i>Mesureur de tête</i>	H36 001
	Cup impactor tip <i>Embout d'impaction</i>	H36 002
	Impactor shaft <i>Manche d'impaction</i>	H01 023
	Caliper plate <i>Plaque de calibrage</i>	H36 003
With ring <i>A bague</i>	Ring forceps <i>Pince à bague</i>	S01 006
Constrained <i>Rétentif</i>	Press for insert <i>Presse à insert</i>	H52 033
	Press screw <i>Vis de presse</i>	H52 030
	Insert impactor tip <i>Embout poussoir d'insert</i>	H52 035
	Head centralizer <i>Centreur de tête</i>	H52 031

\* Items available on special request.



## Important Notice:

The Moonstone implants belong to the class III implantable medical device classification, indicated in hemi hip arthroplasty procedures (HHA). The surgeon is required to read the instructions for use S12 0303 included in the packaging of the implant, as well as the surgical technique manual H36 452 (FR version) or H36 451 (EN version) initially delivered with the instrument set, or available for download on the [www.evolutisfrance.com](http://www.evolutisfrance.com) website.

## Materials / Matériaux :

Cups: Stainless steel according ISO 5832-1 (shell) and UHMWPE according ISO 5834-1 & 2 (liner)  
Packaging: Sterilized under Gamma irradiation, VacUpac packaging