

# Evolutis

CREATEUR FABRICANT

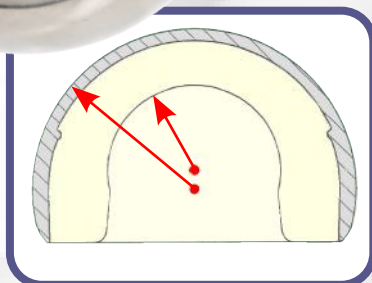
## MOONSTONE®



MOONSTONE  
with locking ring  
à bague



MOONSTONE  
constrained  
rétentive

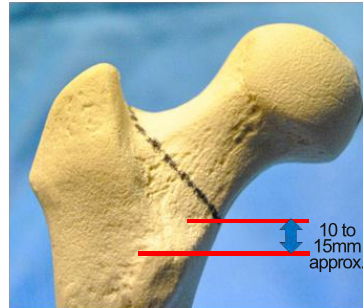


Surgical Technique

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.

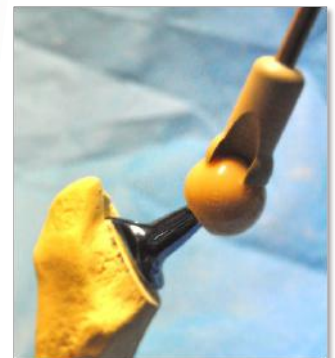
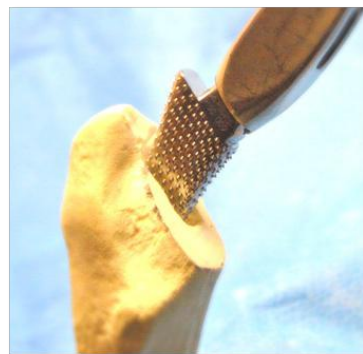
### 1- Resection of the Femoral Head

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.



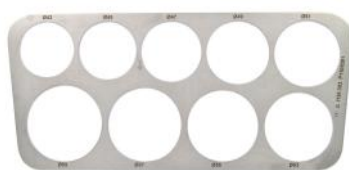
### 2- Femoral Preparation

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.

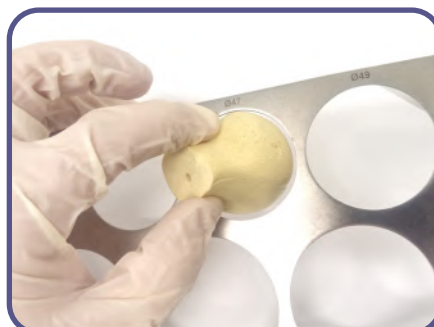


### 3- Femoral Head Sizing

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  
S06 001**

#### 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 (S06 001) 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 locking ring

### Cupule mobile à bague

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

## Constrained bipolar cup

### Cupule mobile rétentive

Inner $\phi$ Interne	Shell $\phi$ Cupule	Cat. N°
<b><math>\phi 28</math></b>	$\phi 43$	H35 R2843
	$\phi 45$	H35 R2845
	$\phi 47$	H35 R2847
	$\phi 49$	H35 R2849
	$\phi 51$	H35 R2851
	$\phi 53$	H35 R2853
	$\phi 55$	H35 R2855
	$\phi 57$	H35 R2857
	$\phi 59$	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 / Implants disponibles sur demande spéciale.



**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  
 Cupules : Acier inoxydable selon ISO 5832-1 (extérieur) et UHMWPE selon ISO 5834-1 et 2 (intérieur)  
 Conditionnement : Stérilisé sous rayonnement Gamma, conditionnement VacUpac