

# **Spierings Orthopaedics B.V.** T: +31-(0)24-3501603

Madoerastraat 24 The Netherlands

F: +31-(0)24-3501604

E: info@spierings.biz I: www.spierings.biz

# Surgical technique of the Noviomagus Cup Resector

**Application:** This device is solely meant for the removal of an uncemented acetabular cup during revision hip arthroplasty.



### STEP 1. PREOPERATIVE EXAMINATION

Examine the presence of adjunctive fixation, such as screws, pegs or spikes. If applicable, remove the screws and pegs from the cup. If applicable, determine whether to cut between the spikes or to use a larger Blade size to cut around the spikes.

# **INSTRUMENT ASSEMBLY**

### STEP 2. INSTRUMENT SELECTION

Warning: do not use visually damaged instruments or blades

Determine the Head size and the Blade size which is needed for acetabular cup removal. The Head size corresponds to the inner diameter of the cup. If the Head does not fit inside the cup, select one Head size smaller. The Blade size corresponds to the outer diameter of the cup. If the Blade does not fit around the cup, select one Blade size larger.

#### STEP 3. HEAD ASSEMBLY

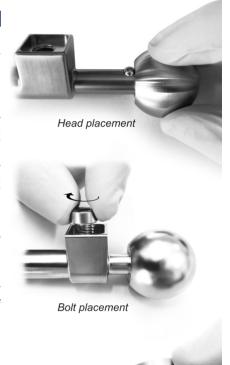
Warning: first assemble the Head before assembling the Blade. Blade edges are sharp.

Place the Head onto the Shaft end. Ensure a complete fixation by sliding the Head over the Shaft untill it clicks, to prevent loosening of the Head during cup removal. When using two Shafts, place a Head of same size onto each of both Shafts.

### STEP 4. BLADE ASSEMBLY

Warning: first assemble the Head before assembling the Blade. Blade edges are sharp.

- Screw the Bolt into the Shaft's thread.
- Place the Blade beneath the Bolt's head and ensure the Blade is entirely enclosed by the Shaft. When the Blade does not fit beneath the Bolt, screw the Bolt a few turns counterclockwise and place the Blade again.
- Screw the *Bolt* tightly using the *Hex Key*. Ensure a firm fixation to prevent loosening of the Bolt during cup removal.
- Check concentricity of the Blade with the Head after assembly.
- When using two Shafts, place the Starter Blade in one Shaft and the corresponding Finisher Blade in the second Shaft.



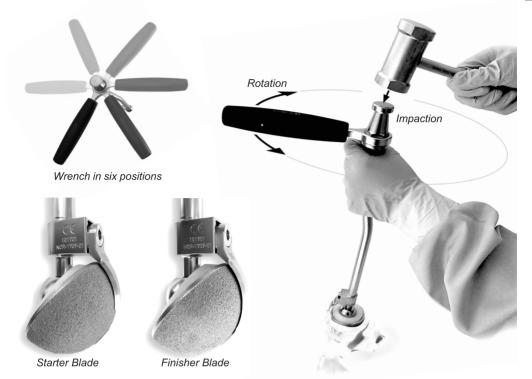


Blade placement

Blade fixation

<sup>•</sup> For instructions for use see document "Instructions for use of reusable surgical instrumentation" (IFU-MOI001) and "Instructions for use of single-use instruments for sterile use" (IFU-MOI002).

<sup>·</sup> For reprocessing instructions see document "Reprocessing of reusable medical devices" (REP-MOI005).



# SURGICAL TECHNIQUE

### STEP 5. CUP RESECTING

Warning: Ensure a proper centering of the Blade to prevent Blade-cup impingement and to minimize acetabular bone loss. If the cup liner is damaged or has an offset, remove the liner and use a provisional insert.

#### Starter Blade

The cup resecting procedure is started using the *Starter Blade*. Place the *Head* into the liner of the cup. The *Head* works as a guide during cutting around the cup's periphery. Use an impactor to hit the *Shaft* and to guide the *Blade* into the surrounding bone of the cup. Create slots around the periphery of the cup. Use the *Wrench* for axial rotation. The *Wrench* can be used in six different positions. Alternate between impacting and rotating. Remove the *Shaft* with *Starter Blade* when the upper part of the cup is resected from bone.

# Finisher Blade

The *Finisher Blade* is used to completely resect the acetabular cup. Use the same technique described for the *Starter Blade*. Alternate between impacting and rotating until the cup is resected completely.

# **INSTRUMENT DISASSEMBLY**

#### STEP 6. BLADE DISASSEMBLY

Warning: first disassemble the Blade before disassembling the Head. Blade edges are sharp

Disassemble the *Blade* from the *Shaft* by unscrewing the *Bolt* using the *Hex Key*. To switch *Blades*, unscrew the *Bolt* only for a few turns. To clean and sterilize the instruments, completely unscrew the *Bolt* from the *Shaft*.

Warning: do not use damaged Blades. It is recommended to discard both Starter and Finisher Blade after cup resection. Possible wear or deformation of Blades can hinder effective cup resection in following surgery. In case of single-use Blades discard the Blades after cup resection.

#### STEP 7. HEAD DISASSEMBLY

Warning: first disassemble the Blade before disassembling the Head. Blade edges are sharp.

Disassemble the Head from the Shaft end. Pull away the Head from the Shaft.



