

## TIBIAL CEMENT INJECTION INSTRUMENT A Simple, Reproducible Solution to Eliminate Tibial Loosening

Implant loosening, specifically tibial component loosening, is known to be a major mode of failure of total knee replacements. Studies have shown that good cement technique that includes sufficient penetration of cement into the cancellous bone reduces the rate of component loosening.

The sterile packed Cement Punch was specifically designed to get a uniform 5 mm of cement penetration regardless of bone density. The patented pattern of cells in the Cement Punch compartmentalize the cement and force it to be injected into the bone without allowing it to flow to areas of less porosity. The Cement Punch allows for a customized amount of injection pressure on the cement in each cell to allow for uniform penetration in either dense or porous bone.



HONEYCOMB PATTERN CONTAINS CEMENT

VACUUM HOLE

5MM DEPTH

MADE FROM HIGH STRENGTH  
MEDICAL GRADE POLYCARBONATE



**AVAILABLE IN THREE SIZES:**

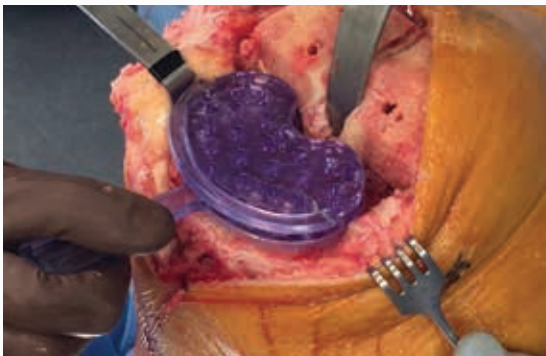
**Small:** 36 mm x 56 mm

**Medium:** 44 mm x 67 mm

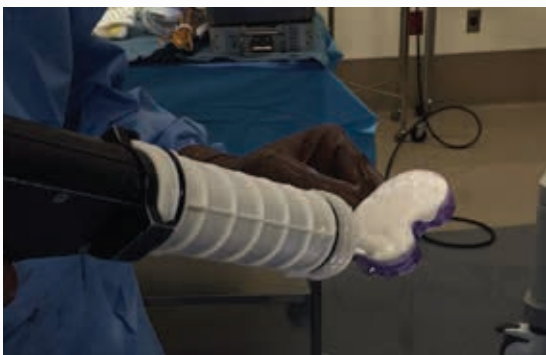
**Large:** 51 mm x 75 mm

## SURGICAL TECHNIQUE

- 1 Prepare the tibia in the typical fashion including saline irrigation.
- 2 Select proper size Cement Punch to ensure a minimum of 5mm space between all edges of the tibia and the Cement Punch.



- 3 Thoroughly mix cement but keep as liquid as possible.
- 4 Fill cells of Cement Punch while holding at angle until all cells are filled.



- 6 When fully seated, pull on the release handle while using the mallet to hit under the handle.



- 7 Cement the tibial implant normally and put implant into place.



- 5 Flip onto tibia and impact with a mallet using quick short blows.