

KASM[®] Knee Articulating Spacer Mold

Surgical Summary



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Please see the KASM® Instructions for Use for intended uses, indications, device description, contraindications, precautions, warnings, and potential risks associated with KASM®.

US Federal Law restricts this device to sale by or on the order of a physician.

Technique Summary

The following technique summary is a general guide for proper use of KASM® Knee Articulating Spacer Molds. It is expected that the surgeon is already familiar with the treatment of infection in patients with previous total knee arthroplasty. Each patient represents an individual case that may require modification of the technique according to the surgeon's judgment and experience.

FEMUR

Remove previously implanted components, residual bone cement, and clean the infected joint. Select the appropriate size femoral mold by comparing the explanted component to the dimensions of the femoral spacer mold. Mix two batches of bone cement to fill the mold.



1. When the bone cement becomes doughy, and no longer sticks to surgical gloves, manually press the cement into the femoral mold.



2. The transparency of the femoral mold allows visualization to verify a smooth articulating surface.



3. Before the cement fully cures, at the late doughy phase, apply the femoral mold to the femur.

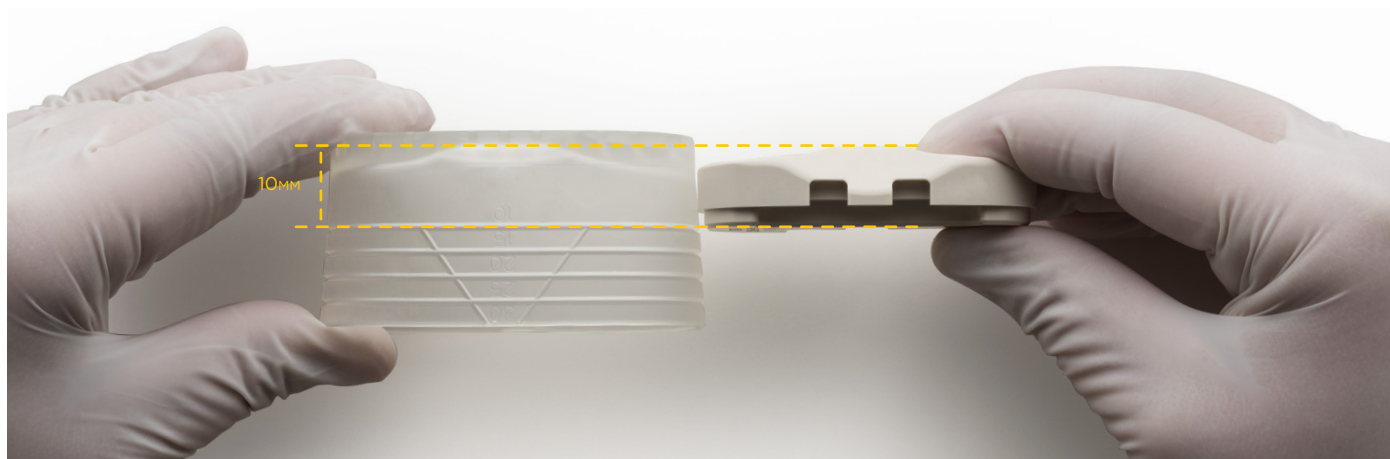


4. Allow the cement to cure completely, then remove the spacer mold.

TIBIA



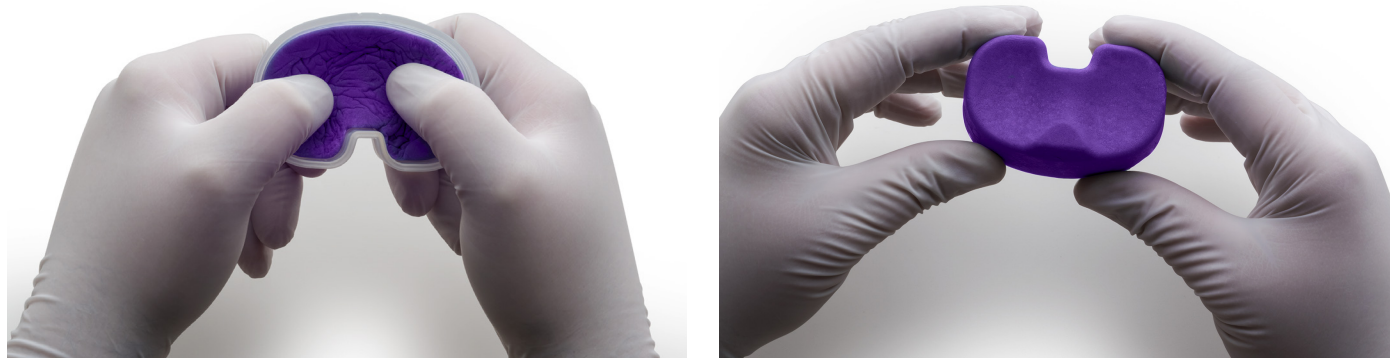
5. Determine the proper thickness for the tibial mold by measuring the thicknesses of the explanted tibial construct, or by assessing the flexion and extension gaps with tibial insert trials.



6. Please note the tibial spacer should be no less than 10mm thick. Once the proper thickness is determined, the cement spacer may be fixed to the tibia using two methods:

METHOD 1:

Mix one batch of bone cement, fill the mold to the appropriate thickness. Allow the tibial cement spacer to cure completely, then release it from the mold. Mix a second batch of bone cement. Once the cement has reached the late doughy phase, apply it to the proximal tibia to create a cement mantle. Place the spacer onto the tibia.



METHOD 2:

Cut the tibial mold to the desired thickness. Mix two batches of bone cement. When the bone cement becomes doughy, and no longer sticks to surgical gloves, manually press the cement into the tibial mold. Before the cement fully cures, at the late doughy phase, place the excess cement onto the proximal tibia to create a cement mantle. Place the spacer mold onto the tibia and allow the cement to fully cure. Remove the tibial mold.



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7. Take the patient through full range of motion to verify desired stability and articulation of the two spacer components. Thoroughly examine the femoral and tibial cement spacers and remove any excess cement. Clean the joint space and close the wound according to surgeon preference.



KASM® KNEE ARTICULATING SPACER MOLD

KASM is a sterile, disposable cement spacer mold available for both femur and tibia. The spacer molds are intended for use in patients undergoing two-stage revision knee surgery for an infected total joint.



- KASM articulating spacers are designed to help preserve range of motion, joint space, soft tissue tension, and allows for ambulation with a mobility assisted device
- KASM molds allow for the creation of temporary antibiotic-laden spacers
- Produces a smooth articulating surface
- The femoral mold has an open design that can be overfilled to accommodate existing bony defects, and is applied directly to the femur
- The open tibial mold allows for the ability to customize the spacer thickness for each patient
- Available in three femoral and three tibial sizes to accommodate a variety of patient anatomy

SIZES AND DIMENSIONS



KASM® FEMORAL SPACER DIMENSIONS

ITEM NUMBER	SIZE	M/L DIMENSION	A/P DIMENSION
669-1060	Small	60mm	37mm
669-1067	Medium	67mm	44mm
669-1075	Large	75mm	53mm

KASM® TIBIAL SPACER DIMENSIONS

ITEM NUMBER	SIZE	M/L DIMENSION	A/P DIMENSION
669-2058	Small	58mm	39mm
669-2070	Medium	70mm	45mm
669-2081	Large	81mm	52mm



Ortho Development® Corporation designs, manufactures, and distributes orthopedic implants and related surgical instrumentation—with a specialty focus on hip and knee joint replacement, trauma fracture repair and spinal fixation. Ortho was founded in 1994 and is located at the base of the Wasatch Mountains in the Salt Lake City suburb of Draper, Utah. The company has established distribution throughout the United States and Japan, along with other select international markets.



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