Medial Rotation Knee™

Landmark Operative Technique
Supplement: No.1
All-Polyethylene Tibia (Cemented)

Physiological Stability and
Mobility for the Active Knee
Without Compromise
Introduction

The purpose of this supplement is to describe the operative technique unique to the Medial Rotation Knee™ All-Polyethylene Tibia. It is supplemental to, and should be used in conjunction with, the Medial Rotation Knee™ Landmark Operative Technique, Part No. ML-300-007.

Follow steps as described in the Medial Rotation Knee™ Landmark Operative Technique up to and including Step 28 before referring to this document.

The steps particular to the All-Polyethylene components described here are: trial reduction (Steps 29-33), tibial finishing (Steps 34-37) and tibial component implantation (Steps 50-52).

Perform all other steps as described in the Medial Rotation Knee™ Landmark Operative Technique, with the exception of the Tibial Assembly, Medial Rotation Knee™ Landmark Operative Technique Steps 46-49, which is not required for the Medial Rotation Knee™ All-Polyethylene Tibia.
**Step 29**
Choose the appropriate All-Poly Tibial Guide that fits the tibia without overhang. This will be the size used and need not match the femur size.

**Step 30**
Fit the All-Poly Tibial Trial, checking for correct left or right orientation and chosen thickness.
**Step 31**

With the knee in deep flexion, use the Femoral Impactor to fit the appropriate Femoral Trial. Check the fit and position.

**Step 32**

Test for stability in extension and flexion with the patella reduced.

The knee should be stable and have only limited laxity in flexion. The Tibial Trial should find its best fit position on the tibia as a "meniscal trial". Using diathermy, make location marks on the tibia and on the femur both medially and laterally of the Femoral Trial. These marks will be used to ensure correct positioning for final preparation of the femur and tibia.
**Step 33**

**Pegged Femur**

Pin the Femoral Trial, ensuring that it remains well positioned with reference to the diathermy marks.

Drill femoral peg holes to full depth using the drill marked 'Femur Peg'.

**Note:** do not perform this step if using a Stemmed Femur.
**Step 34**

Remove the Femoral and Tibial Trials. Place the All-Poly Tibia Guide Handle onto the All-Poly Tibia Guide and lock.

Replace the Tibia Guide, ensuring correct positioning with reference to the posterior edges, the diathermy mark and optionally using the External Alignment Rod. Pin in place.
**Step 35**

Fit the appropriate size of All-Poly Tibia Drill Guide to the handle, ensuring that both tubular drill guides are securely located in the Tibia Guide.

Drill the first peg hole to depth, ensuring that the Tibia Guide maintains its position and remains flat on the tibia.

**Step 36**

To help secure the assembly when drilling the second peg hole, an All-Poly Tibia Plug is provided to fill the drilled peg hole.

Drill the second peg hole to depth, ensuring that the Tibia Guide maintains its position and remains flat on the tibia.

**Step 37**

Remove all components and refer to the Medial Rotation Knee™ Landmark Operative Technique, following Steps 38-45.

The All-Polyethylene Tibial components do not require pre-assembly as described in Steps 46-49 in the Medial Rotation Knee™ Landmark Operative Technique. This guide continues with implantation, Step 50.
**Step 50**

Clean the resected bone surfaces with a bone brush or pressurised lavage. Use suction to remove the debris and liquid.

Dry thoroughly.

**Step 51**

Place bone cement on the tibial bone.

The Tibial Plugs may be used to prevent cement seeping into the peg holes.

**Step 52**

Insert the All-Polyethylene Tibial component.

Impact carefully using the correct Tibial Impactor for the all-polyethylene tibial components.

*Note:* The anterior protrusion on the Tibial Impactor is intended to contact the anterior part of the tibial component to distribute the force and ensure the component is properly seated.

Now refer to the Medial Rotation Knee™ Landmark Operative Technique and follow **Steps 53-56** for implantation of the Femur and Patella.
Note: There is no requirement to size-match components; all are compatible.
Supplement to:

Medial Rotation Knee™ Landmark Operative Technique Part no. ML-300-007