

Biconvex  
Patellar Preparation  
Primary Total Knee Arthroplasty





# LEGION<sup>®</sup> Total Knee System

## Biconvex Patellar preparation

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### Nota Bene

The technique description herein is made available to the healthcare professional to illustrate the authors' suggested treatment for the uncomplicated procedure. In the final analysis, the preferred treatment is that which addresses the needs of the patient.

Additional LEGION Total Knee System surgical technique brochures are available for the other LEGION Components.

# Introduction

The LEGION® Total Knee System has been designed to offer the orthopaedic surgeon solutions to address intraoperative situations. Implant function is directly related to accurate surgical technique. LEGION instrumentation has been developed to be an easy-to-use system that will assist the surgeon in obtaining accurate and reproducible knee alignment.

The instrumentation can be used in minimally invasive or standard exposures. While it has been the designers' objective to develop accurate, easy-to-use instrumentation, each surgeon must evaluate the appropriateness of the following technique based on his or her medical training, experience and patient evaluation.

# Instrument assembly

## Patellar reamer guide

Determine the appropriate diameter patellar implant, and select the correctly-sized patellar reamer collet and slide it into place on the patellar reamer guide (Figure 1).

## Depth gauge and reamer assembly

- 1 Attach the **blue** patellar depth gauge to the reamer guide (Figure 2).
- 2 Attach the matching sized patellar reamer dome and patellar depth stop to the patellar reamer shaft (Figures 3 and 4). Lower the assembly through the patellar reamer guide until the reamer dome contacts the patella.

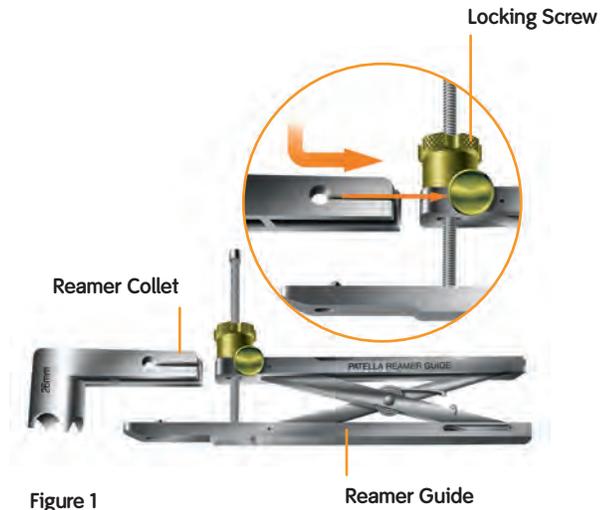


Figure 1

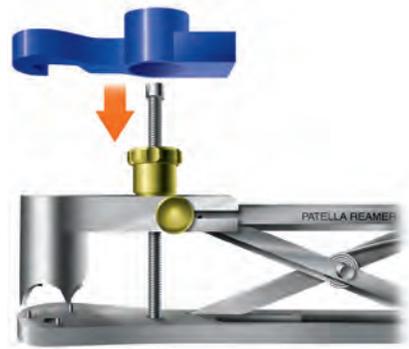


Figure 2



Figure 3



Figure 4

Reamer Collet	Reamer Guide	Patellar Depth	Biconvex Dome
23mm 7144-0510	7144-0311	Stop	23mm 7144-0634
26mm 7144-0512		7144-0326	26mm 7144-0636
29mm 7144-0514	Biconvex Depth		29mm 7144-0638
32mm 7144-0516	Gauge	Reamer Shaft	32mm 7144-0640
	7144-0328	7144-0324	

# Biconvex patellar preparation

1 Attach the patellar reamer guide to the patella. Tighten the patellar reamer guide on the patella (Figure 5).



Figure 5

2 Use the patellar calipers to measure the thickness of the patella (Figure 6).



Figure 6

3 Using the depth gauge and reamer assembly, swing the patellar depth gauge around so that the “claw” surrounds the patellar reamer shaft.

4 Lower the patellar depth stop by pushing the gold button until it contacts the patellar depth gauge. The patellar depth stop will automatically lock in place (Figure 7).

5 Remove the depth gauge.

6 Ream the patella until the depth stop engages the patellar reamer guide.

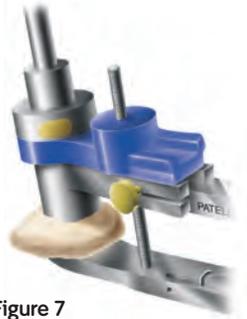


Figure 7

# Component trialing

- 1 Place the blue patellar trial into the prepared patella (Figure 8).
- 2 Perform a trial range of motion to assess patellar tracking. Medial/lateral placement of the femoral trial can be adjusted to optimize patellar tracking (Figure 9).



Figure 8

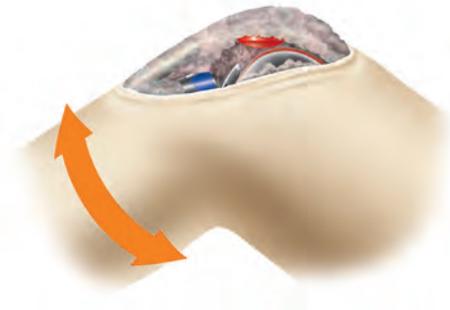


Figure 9

## Implantation

### Patellar implantation

- 1 Assemble the patellar cement clamp to the patellar reamer guide.
- 2 Apply bone cement to the patella.
- 3 Place the patellar implant onto the patella and clamp into the bone (Figure 10). Remove excess cement.

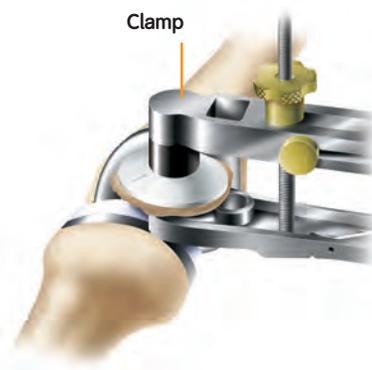


Figure 10

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Biconvex Patellar Trial	Reamer Guide	Cement Clamp
23mm 7143-0566	7144-0311	7144-0322
26mm 7143-0568		
29mm 7143-0570		
32mm 7143-0572		

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