

2mm Recutter
Surgical Technique

 **smith&nephew**
ZUK
Unicompartmental Knee



For use with the ZUK Unicompartmental
High-Flex Knee

Unicompartmental Knee 2mm Recutter Surgical Technique

Introduction

The 2 mm Recutter is designed for use with the ZUK Unicompartmental Knee System. A single instrument is designed to remove an additional 2mm of bone from either the medial or lateral compartment on the tibia or femur after checking the flexion/extension gaps. If the joint is tight in both flexion and extension, the surgeon may choose to remove additional bone from the proximal tibia. If the joint is tight only in extension, the surgeon may choose to remove additional bone from the distal femoral condyle.

Indications

Unicompartmental knee implants are indicated for restoring either compartment of a knee that has been affected by the following:

1. Noninflammatory degenerative joint disease including osteoarthritis, traumatic arthritis, or avascular necrosis;
2. Correction of functional deformity;
3. Revision procedures where other treatments or devices have failed; and
4. Treatment of fractures that are unmanageable using other techniques.

Unicompartmental knee implants are single use only and are intended for implantation only with bone cement.

Contraindications

1. Cases where there is poor bone stock which would make the procedure unjustifiable.
2. Active, local infection or previous intra-articular infections.
3. Mental or neurologic conditions that tend to pre-empt the patient's ability or willingness to restrict activities.
4. Neuropathic (Charcot) joint.
5. Conditions that tend to place increased loads on implants such as age, weight, and activity level, which are incompatible with a satisfactory long-term result.
6. Collateral ligament insufficiency (except in cases where a constrained knee system is indicated and used).
7. Skeletal immaturity.
8. Use of a supracondylar nail through intercondylar notch of PROFIX[®] primary femoral components.
9. Use of slotted femoral and tibial stems without adequate bone support.



The following technique is for informational and educational purposes only. It is not intended to serve as medical advice. It is the responsibility of treating physicians to determine and utilize the appropriate products and techniques, according to their own clinical judgment, for each of their patients. For more information on the ZUK Unicompartmental Knee, including its indications for use, contraindications, and product safety information, please refer to the product's label and the Instructions for Use packaged with the product.

Recutting the Tibia (medial)

1. Remove any pins/screws from the tibia.
2. Apply the 2mm Recutter to the tibia parallel to the sagittal cut and with the cutting slot facing anteriorly.

Ensure that the guide is flat against the resected surface (Fig. 1).

3. Secure the guide by inserting two 48mm Headed Screws through the holes in the guide (Fig. 2).
4. Use an oscillating saw with a 1.27mm (0.050-inch) blade to cut the tibia through the slot in the 2mm Recutter. Check to ensure that the resected surface is flat. If necessary, use a file to remove any high spots (Fig. 3).

Note: Be careful to avoid undercutting the sagittal cut.

5. If an edge remains at the base of the sagittal cut, use a file to remove it.

Optional

6. Use the Flexion/Extension Gap Spacers to recheck the gaps when using the ZUK Unicompartmental Instrument Set (Fig. 4).

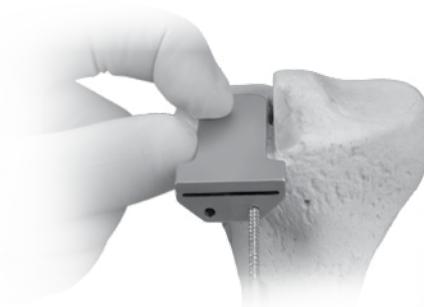


Fig. 1



Fig. 2



Fig. 3



Fig. 4

Recutting the Femur (medial)

1. Remove any pins/screws from the tibia.
2. Apply the 2mm Recutter to the femoral condyle so it is flat against the resected surface. Position the guide as anterior as possible, and at an angle that will avoid the anterior cruciate ligament, the patellar tendon, and the uninvolved femoral condyle (Fig. 5).

3. Secure the guide by inserting two 48mm Headed Screws through the holes in the guide (Fig. 6).
4. Use an oscillating saw with a 1.27mm (0.050-inch) blade to cut the femoral condyle through the slot in the 2mm Recutter. Check to ensure that the resected surface is flat. If necessary, use a file to remove any high spots (Fig. 7).

Optional

5. Use the Flexion/Extension Gap Spacers to recheck the gaps when using the ZUK Unicompartmental Instrument Set (Fig. 8).

Note: The 2mm recutter is NOT intended for use on a finished femur. This is only intended for recutting the distal condyle, prior to finishing the femur.



Fig. 5

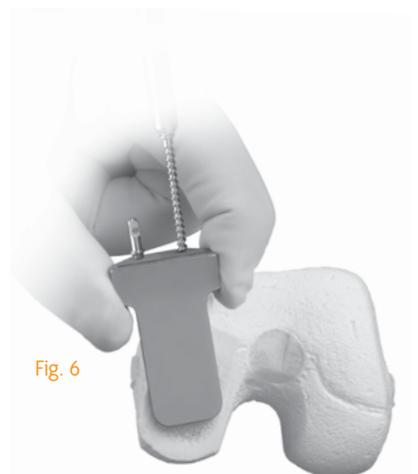


Fig. 6



Fig. 7

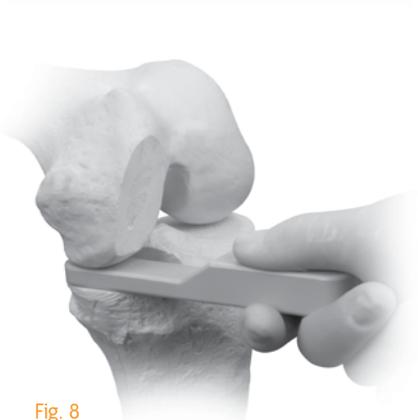


Fig. 8

SPEED PIN[®] device and sawblades

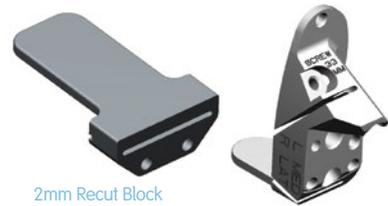
SPEED PINs	Sawblades
Tibia Resector 5°	Recommended Oscillating Sawblades*
7401-3471 (45mm Rimmed SPEED PIN)	7144-0389 Stryker 2000/Systems 4&5 Straight Blade
00-5791-041-00 (Headed Screw, 48mm)	7144-0367 Linvatec Hall PowerPro Straight Blade
7401-3480 (65mm Non-Rimmed SPEED PIN)	7144-0381 3M MaxiDriver Straight Blade
00-5791-042-00 (Headless Screw, 48mm)	7220-4188 Dyonics StableCut Straight Blade
Spacer Block 5°	7220-4152 Dyonics Diamond Ground Teeth Straight Blade
7401-3471 (45mm Rimmed SPEED PIN)	Recommended Reciprocating Sawblades
00-5791-041-00 (Headed Screw, 48mm)	7144-1573 Stryker Single-sided
Spacer Block Femoral Resector	7144-1574 Hall Single-sided
7401-3471 (45mm Rimmed SPEED PIN)	7144-1575 Synthes Single-sided
00-5791-041-00 (Headed Screw, 48mm)	7220-4149 Dyonics Single-sided
Femoral Sizer / Finishing Guide	
7401-3401 (30mm Rimmed SPEED PIN)	
00-5791-044-00 (Headed Screw, 33mm)	
7401-3471 (45mm Rimmed SPEED PIN)	
00-5791-041-00 (Headed Screw, 48mm)	
2mm Recut Block	
7401-3471 (45mm Rimmed SPEED PIN)	
00-5791-041-00 (Headed Screw, 48mm)	
EM Femoral Resector	
7401-3471 (45mm Rimmed SPEED PIN)	
00-5791-041-00 (Headed Screw, 48mm)	
ZUK Additional Disposable Pin	
IM Femoral Resector	
00-5791-054-00 (Collapsing Holding)	
Driver	SPEED PINs
7401-3489 (SPEED PIN Quick Connect)	7101-3470 (30mm Rimmed)
	7101-3471 (45mm Rimmed)
	7101-3480 (65mm Non-Rimmed)
	7101-3470 (30mm Rimmed)
ZUK Screw Inserter/Extractor	ZUK Pin/Screw
00-5791-049-00 (Screw Inserter/Extractor)	00-5791-044-00 (Headed, 33mm – Gold)
	00-5791-041-00 (Headed, 48mm)
	00-5791-042-00 (Headless, 48mm)
	00-5791-043-00 (Headed, 27mm)

*Or any 0.050" or 1.27mm thick saw blade



Spacer Block 5°

Tibia Resector 5°



Spacer Block Femoral Resector

Femoral Sizer / Finishing Guide



EM Femoral Resector

IM Femoral Resector



SPEED PIN Quick Connect



Screw Inserter/Extractor

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