THE FOUNDATION MODULAR REVISION KNEE SYSTEM

**Constrained Tibial Inserts**
- can be used with modular revision femur or primary P.S. femur
- 0.75mm total medial-lateral slide
- varus/valgus rotation limited to +/- 1.5 degrees
- internal/external rotation limited to +/- 1 degree
- five thicknesses, 11mm - 19mm
- polyethylene (UHMWPE)

**Modular Femoral Component**
- cobalt chromium alloy (CoCrMo)
- six sizes of left and right components
- attachment feature for spacer blocks
- m Morse type taper for stem extension attachment
- deepened patellar groove
- anatomic patellar groove
- prominent lateral flange
- 130° flexion capabilities
- size specific controlled rollback
- 60° cam engagement
- closed femoral P.S. box

**Modular Tibial Baseplate**
- asymmetric profile coverage
- winged-keel proximal stem shape
- cobalt chromium alloy (CoCrMo)
- six sizes of left and right components
- attachment feature for spacer blocks
- threaded distal tip for attachment of long stems

**Femoral Augmentation Blocks**
- 5mm & 10mm thicknesses
- posterior & distal blocks
- mechanically attach to femoral component
- coarse grit blast finish for enhanced cement fixation

**Tibial Augmentation Blocks**
- 5mm & 10mm thicknesses
- medial & lateral blocks
- blocks taper distally to match normal anatomy
- mechanically attach to tibial baseplate
- coarse grit blast finish for enhanced cement fixation

**Femoral Stem Extensions**
- anti-rotation splines
- m Morse type taper for attachment to modular femoral component
- satin surface finish to avoid stress shielding
- 100mm & 150mm overall lengths
- eight diameters, 12mm - 26mm
- titanium alloy (Ti6Al4V)

**Tibial Stem Extensions**
- anti-rotation splines
- self-locking thread for attachment to baseplate
- satin surface finish to avoid stress shielding
- 100mm & 150mm overall lengths
- five stem diameters, 10mm - 18mm
- titanium alloy (Ti6Al4V)
1 BONE DEFICIENCY MANAGEMENT

The Foundation Modular Knee System offers augmentation blocks for the management of side specific bone deficiencies. The tibial blocks attach securely to the Foundation Modular Revision and Non-Porous Primary Tibial Baseplates while the femoral blocks attach to the Foundation Modular Revision and Non-Porous PS Femoral Components via a specially designed mechanism. Laboratory testing up to the maximum loading conditions seen in the knee (maximum shear load equals 2 times body weight) showed no failure of the attachment mechanism.1

2 REPRODUCIBLE KNEE KINEMATICS

The Foundation Modular Knee was designed to replicate normal knee kinematics. The specially designed femoral cam and tibial spine are designed to engage at 60° flexion and induce smooth role back an amount specific to each size femoral component. The cam and spine design are also designed to provide for 130° of flexion. The deepened, anatomic, and extended patellar groove on the Foundation Femoral Component minimizes patellar advancement, promotes normal biomechanics, and provides increased resistance to patellar dislocation.2

3 KNEE JOINT CONSTRAINT

The Foundation Constrained Insert was designed to maximize in-plane joint motion while minimizing out-of-plane translation and rotation. The larger post on the constrained insert allows for only 0.75mm of medial lateral slide while allowing only ±1.5° and ±1° of varus/valgus and internal/external rotation, respectively. Modular stem extensions provide added support in bone deficient scenarios.

4 INSTRUMENTATION

The Foundation Modular Revision System utilizes the existing instruments for the Foundation Total Knee System along with revision cutting blocks for accurate augmentation block cut preparation. In addition, a complete trialing system is available to aid in proper implant size selection and confirm accurate bone preparation.

5 COMMITMENT

Encore Orthopedics offers today's customer the highest quality, service, and value. Our efforts focus on meeting the most exacting clinical expectations, maintaining the highest standards of service, and managing the toughest fiscal challenges facing surgeons and administrators today. Our customers deserve no less than our uncompromising dedication to these goals.

References:

The Foundation Implants are only for use with bone cement in the U.S.

Knee Implants 0123
Knee Instruments 0124

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