maxx orthopedics

FREEDOM® PCK

The PCK Revision Knee

Tapered cemented **FEMORAL STEM EXTENSIONS** for both the femur and tibia are offered in a variety of diameters to meet specific patient needs.

PCK FEMUR

- **PATENTED** box of the Freedom PCK provides a **VARYING CONSTRAINT PROFILE** from high constraint in extension to less constraint in flexion.
- Built on clinical success of the Freedom Knee geometry to promote optimum size and shape for modern needs.

CONSTRAINED LINER with pre-assembled liner securing pin to provide additional locking and stability while reducing locking tab stresses.

Bone conserving, low profile **TIBIAL BASEPLATE** to manage poor bone stock or severe deformities.

Reversible and stackable **AUGMENTS** allow for better match to the replaced deficient bone.

360˚ rotating femoral and tibial **OFFSET JUNCTION** allows for optimal canal filling and fixation.

Canal filling **STEMS** with spline and flute design provide immediate rigid fixation and resistance to torsional movements. A flexible coronal slot provides a dynamic structure to address long-term endosteal bone changes.

maxx orthopedics

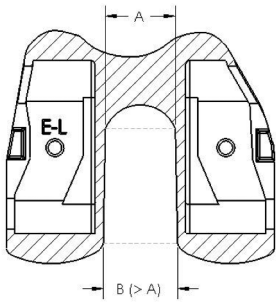
FREEDOM® PCK

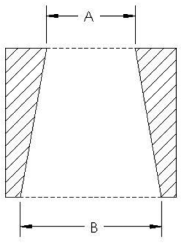
Progressive Constraint Kinematics

- Current tibial-femoral constraint systems provide a constant level of constraint throughout the range of motion.
- Freedom PCK provides a varying constraint profile from high constraint in extension to less constraint in flexion.

Constraint	Freedom PCK
Var.-Val.	1° to 4°
Int.-Ext.	2° to 7°

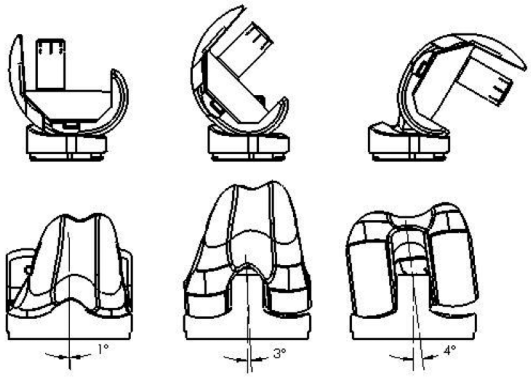
- Tibial-femoral varying constraint is provided through the trapezoidal shape of the femoral box where the narrower end is anterior.



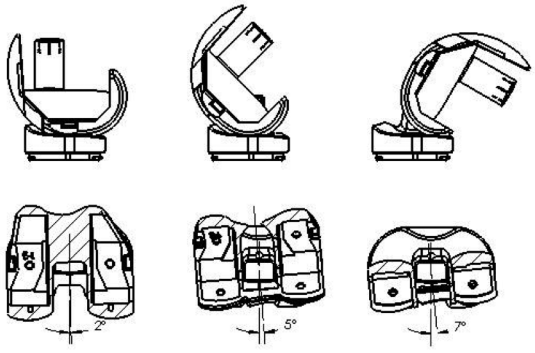


- In extension (0°), there is more constraint between the tibial post and femoral box allowing less Varus-Valgus tilt and internal-external rotation.
- As the joint goes into deeper flexion, the clearance between the tibial post and femoral box increases allowing an increase in both Varus-Valgus tilt and internal-external rotation.

CHANGE IN VARUS-VALGUS TILT THROUGH FLEXION



CHANGE IN INTERNAL-EXTERNAL ROTATION THROUGH FLEXION



Note: Angle values are indicative only

Maxx Orthopedics Brochure No. MXO-MP00023-R01