Originally implanted in 1988, Rotaglide+ was the first total knee design to adopt a true mobile bearing philosophy. The implant features a rotating and translating tibial insert providing enhanced joint stability and minimal polyethylene wear.
The original and only true mobile bearing knee
Originality

The first true mobile bearing design, Rotaglide+ features spherical posterior femoral condyles and highly conforming tibial inserts.

The insert mobility and high conformity allow the Rotaglide+ to maintain large contact areas throughout the range of motion, resulting in low volumetric wear rates and improved implant longevity.

Figure 1. Mean cumulative volumetric wear with 95% confidence limits for the fixed and mobile bearing knees1.
Inspired by motion

Recent kinematic studies have suggested that the natural femur may pivot medially or laterally during gait and non-ambulatory activities²,³.

The symmetrical design of the Rotaglide+ insert allows up to 5mm translation and ±20° rotation, accommodating varying centres of rotation about both the medial and lateral femoral condyles.

Rotaglide bearing mobility allows self-alignment of the tibial insert in vivo which has been shown to reduce patellofemoral stresses⁴ and minimize anterior knee pain⁵.
Stability

Featuring spherical posterior femoral condyles the Rotaglide+ allows for a single flexion-extension axis reducing mid-flexion instability and maintaining ligament isometry\(^6,7\).

A posteriorly located centre of rotation lengthens the quadriceps moment arm, reducing quadriceps effort required post total knee arthroplasty and accelerating patient rehabilitation\(^6,7\).
With the patient in mind

A 10° posterior slope built into the distal femoral and tibial implant design allows for proximal bone conservation.

The anatomic tibial slope directs forces through the tibial baseplate during heel-strike, minimising the risk of bearing dislocation.
First implanted in 1988, the Rotaglide+ knee has shown excellent clinical survivorship of 94.37% at 18 years.

Two decades of world leading innovation
The bone conserving implant design is ideal for the young active patient: Rotaglide+ has shown an outstanding clinical survivorship of 96% in patients with an average age of 50 years⁹.
Rotaglide™

RTK+ Replicate Instrumentation

Optimised cutting block profiles allow easy visibility whilst minimising patella impingement and avoiding soft tissue damage.

Unrestrictive, guided resection allows for accurate and reliable bone cuts.
Driven twist pins and convergent pin-holes provide secure fixation for reproducible cuts with confidence.

Power pinning system and quick release guide allow rapid instrument positioning.

An easy anterior referencing approach prevents femoral notching.
References:


