TC-PLUS®

Product Information
System Overview

**Deep, posteriorly extended anatomic patellar groove for high stability and broad surface contact at flexion angles of up to 90°.**

**Femoral cuts compatibility with the RT-PLUS®**

Constrained Rotating Total Knee for intra-operative switching in case of severe instability.

**Asymmetrical tibial component for complete coverage and cortical support.**

Highly-polished supporting surface for minimal polyethylene wear.

Non-cemented version of the tibial component features four screwholes sealed off with polyethylene plugs on delivery.

**Contact area at various joint positions**

An oval, uniform pressure distribution is maintained between the femoral condyles and the tibial insert, even during physiological rotational and varus-valgus positions. Together with the high quality of the surface preparation of the tibial insert, this provides maximum protection for the polyethylene sliding surface.

**Pressure distribution at 0° flexion angle**

Large oval contact areas for maximum protection of the polyethylene.
**Porous Titanium Coating**
Non-cemented components with high quality, porous pure titanium coating for extensive osseointegration.

**Pure titanium plasma sprayed coating**
Highly porous pure titanium coating applied in a plasma spray process under vacuum.

**Section through titanium coating**
Ti surface layer 200–400 μm, roughness (RT) of 150–250 μm, rough, highly porous structure – ideal preconditions for extensive osseointegration.
Ti base layer 50 μm – the plasma spray application process under vacuum ensures outstanding bonding to the substrate.
Base material CoCr.

** Stability of the cemented tibial component is enhanced by the cement layer surrounding the central portion of the stem (highlighted in green).\(^2\)**
The press-fit wings help minimize micromotion of the component while the cement sets.

