LINK®

GEMINI® SL® SpheroGrip®

The complete system for greater versatility
in total knee arthroplasty

Excellent treatment options for a wide range of patients and indications and maximum intraoperative versatility

- SpheroGrip® macrostructure provides for a homogeneous bone cement-implant interface and uniform force transmission in the cement mantle [1]
- Modular, anatomically designed prosthesis components
- Wide choice of sizes, irrespective of gender or ethnicity
- High survival rate of 98.2% in the arthroplasty register of the Emilia Romagna region of Italy for version with honey comb-shaped structure [2]
- Compatibility with other systems in the LINK® SL® Knee Family concept provides comprehensive treatment options

Mobile Bearing

with congruent plateau surface

- Congruence of the articular surfaces in extension
- Articulating femoral condyle as flexion increases, giving greater freedom of flexion and relieving strain on the patella
- High congruence stabilizes the joint, also in the absence of the posterior cruciate ligament [3]

Mobile Bearing

Fixed Bearing

on tibial component

- For use with intact ligaments and capsule and adequate joint stability
- The same femoral component for fixed and mobile bearings
- The same tibial component for fixed bearing and fixed bearing PS

Fixed Bearing

Fixed Bearing PS

with mechanical stop

- Post on the tibia and stabilizing cam on the femoral component as coupling mechanism
- Guided tibial “rollback” with dorsal subluxation stop
- Joint function stabilised in the absence of the posterior cruciate ligament

Fixed Bearing PS

References:

[1] Internal Technical Report
[2] Annual Report of R.I.P.O. 2010, Suite 105, Regional Register of Orthopaedic Prosthetic Implantology, http://ripa.cineca.it
[3] Christine S. Heim, BSc, Paul D. Postak, BSc, Nicolas A. Playton, MS, A. Seth Greenwald, DPhil (Oxon): “Classification of Mobile-Bearing Knee Designs: Mobility and Constraint”, The JBJS (American) 83:p. 32-37 (2001)

Developed for reconstructing natural kinematics with high flexion and successful long-term function

Adapted patellar articulating groove

for physiologic patella movement with “self-tracking”

Anatomically designed tibial component

for stable positioning with cortical support

Blades, fixation pegs and stem on the tibial component

for protection against rotational and shear forces and also varus/valgus alternating loads

Elongated patella shield

prevents “snapping” of the patella at patella alta

Polycentric design

with large distal radius and smaller dorsal radius, for enhanced joint stability in extension, excellent mobility and deep flexion

SpheroGrip® fixation structure

improves the flow and homogeneous distribution of the bone cement [4]

References:

[4] Internal Technical Report

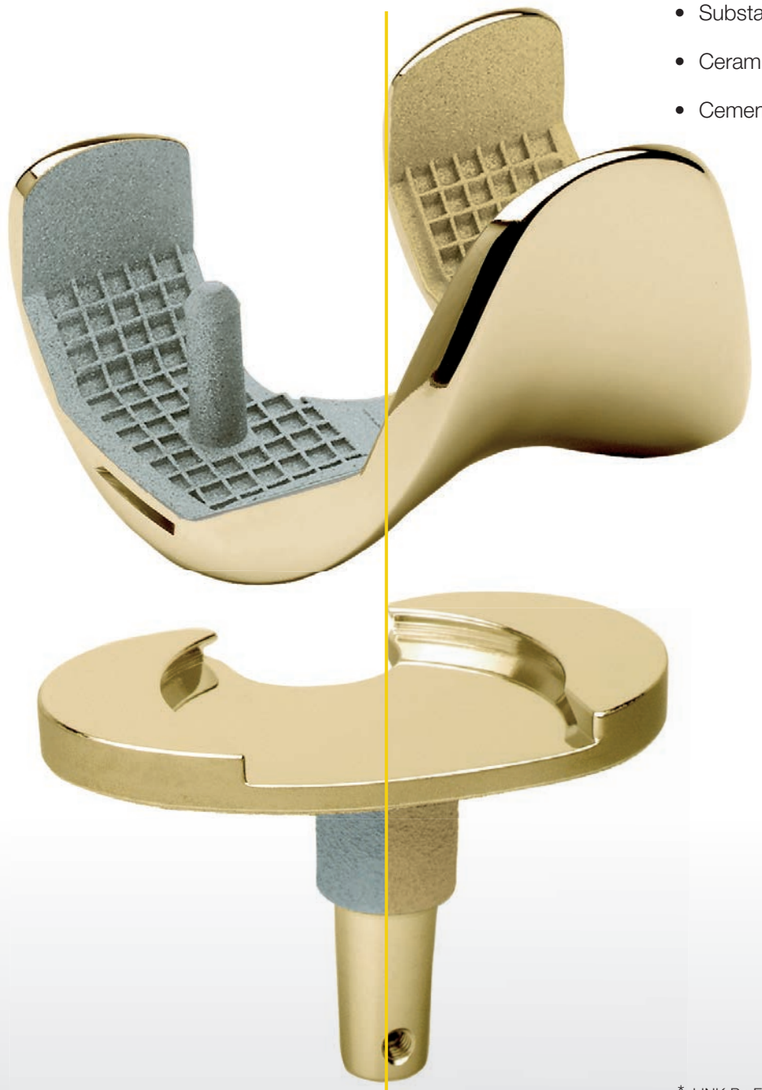
The prosthesis for patients with sensitivity to CoCrMo and/or bone cement

HYPOALLERGENIC IMPLANT

LINK PorEx®* Surface Modification

made of titanium niobium nitride

- Hypoallergenic
- Substantial reduction in ion release
- Ceramic-like abrasion behavior
- Cementless with TiCaP®** coating



cementless cemented

* LINK PorEx®: TiNbN = Titanium Niobium Nitride; hypoallergenic coating (gold color)

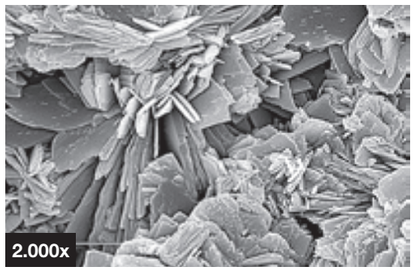
** TiCaP® double coating: Titan/Calcium Phosphate (CaP)

High primary fixation with cementless anchorage

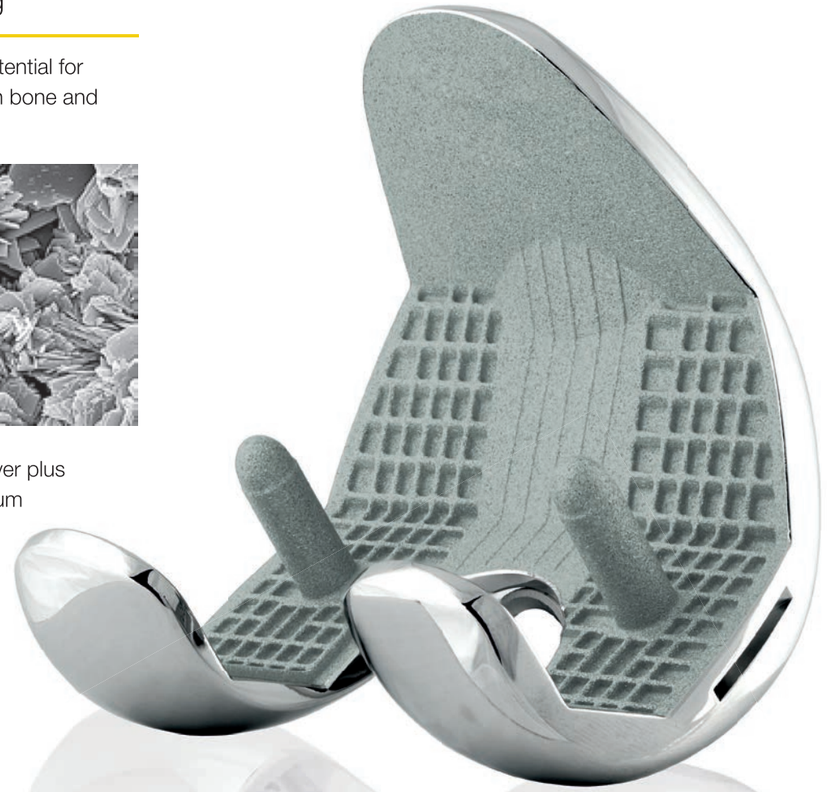
CEMENTLESS ANCHORING

TiCaP®** double coating

creates greatly enhanced potential for biological exchange between bone and implant surface [5]

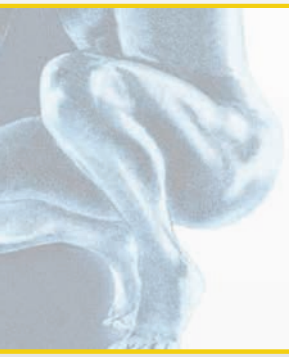


- Highly porous titanium layer plus mechanically stable calcium phosphate coating
- Homogeneous surface application



References:

[5] Cunningham B W et al.: “General Principles of Total Disc Replacement Arthroplasty”, Spine, Vol 28, No 20 Suppl, 2003



Waldemar Link GmbH & Co. KG

Barkhausenweg 10 · 22339 Hamburg, Germany
Phone +49 40 53995-0 · info@linkhh.de
www.linkorthopaedics.com