



GEMINI SL

Fixed Bearing CR & PS

VERSATILITY. CONFIDENCE. HERITAGE

OUR JOB IS THE HEALTH, SAFETY, AND
SATISFACTION OF YOUR PATIENTS.



*"Every human being is unique.
A truly versatile implant system
should strive to meet the needs
of every individual patient."*

© Helmut D. Link

Helmut D. Link

GEMINI SL

Total Knee System

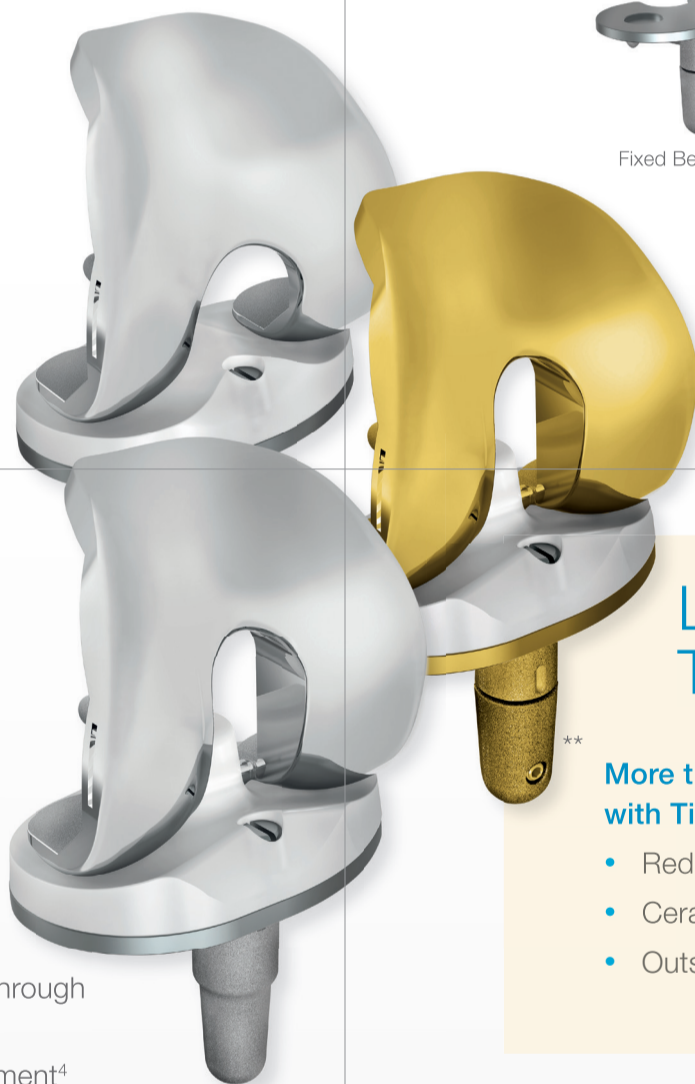
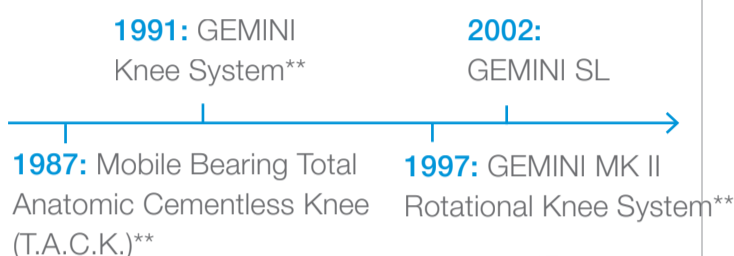
GEMINI SL – a complete knee replacement system for greater versatility.

The GEMINI SL Knee System physiological joint reconstruction with focus on joint stability, adaptable to every soft tissue situation.¹⁻⁵ Extensive selection of sizes warrant accurate fit for all anatomies in worldwide population.

Successful heritage

More than **30 yrs** of product history*

More than **25 yrs** experience with anatomical tibia design**



Fully anatomical system

Tibial component

Asymmetric design conforming articular surface

Asymmetric tibia

- Improved bony support through full tibial coverage⁴
- Improved rotational alignment⁴
- Less soft tissue irritation

Conformity

- Improved stability⁴
- Controlled guided motion



Universal confidence

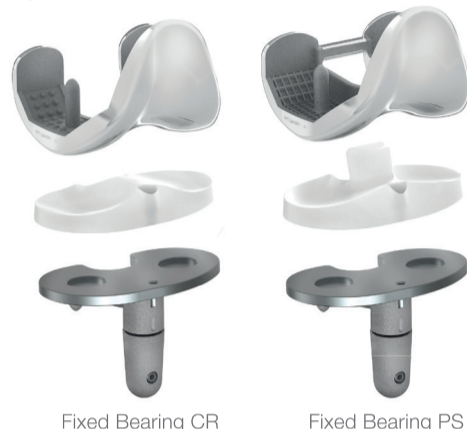
Functional designs for easy surgical success

- Physiological range of motion and functionality¹⁻⁵
- High flex capability¹²



Remarkable versatility

2 configurations (Fixed Bearing CR and Fixed Bearing PS) and optional tibial stem extensions **allowing 70 versatile options** address a wide range of patient anatomies and enable comprehensive treatment options.



LINK PorEx Technology

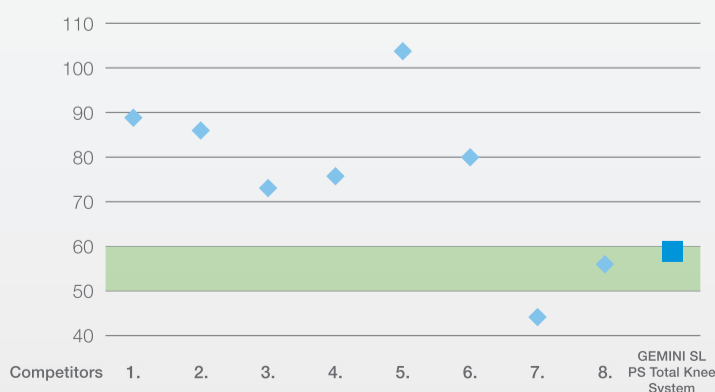
More than **8 yrs*** experience with TiNbn surface modification

- Reduction of metal ions release⁷
- Ceramic-like surface⁷
- Outstanding hardness⁷

Restoring native kinematics

- **59°** engagement of the GEMINI SL post-cam mimics native knee¹³

Post Cam Engagement Angle (degrees measured during squatting in different TKA designs¹²)



* Outside of the US

** GEMINI, T.A.C.K., GEMINI MKII Knee Systems and LINK PorEx Taper Caps are not available in the USA

This publication is intended for distribution in the U.S. only

References

- 1 Thabe H., Dafferner-Franzmann M., Stening J. Auswirkungen verschiedener konstruktiver Prothesenmerkmale auf Langzeitergebnisse, Akt Rheumatol 2013;38.
- 2 Internal Data - Thabe H., Aspekte zum Konzept der beweglichen Tibiaplateaukonstruktion, April 2000.
- 3 Goodfellow J., O'Conner J. The Mechanics of the Knee and Prosthesis Design. J Bone Joint Surg Br 1978; 60:358-369
- 4 Martin S, Saurez A, Ismaili S, Ahfaq K, Noble P, Incavo S. Maximizing Tibial Coverage Is Detrimental to Proper Rotational Alignment. Clin Orthop Relat Res 2014; 472:121-125
- 5 Figgie HF, Davy DT, Heiple KG, Hart RT. Load-bearing Capacity of the Tibial Component of the Total Condylar Knee Prosthesis. Clin Orthop Relat Res 1984; 183: 288-297
- 6 https://ripo.cineca.it/pdf/relazione_2016_v19_inglese.pdf
- 7 Bader R., Berschmidt P., Fritsche A., Thomas P., Mittelmeier W. Alternative Werkstoffe und Lösungen in der Knieendoprothetik für Patienten mit Metallallergie. Orthopäde 2008; 37:136-142
- 8 Latest ODEP rating can be found as www.odep.org.uk
- 9 Internal Data – Innocenti B. GEMINI Mobile Bearing / Fixed Bearing CR – Biomechanical Analysis in healthy and deficient PCL patient, 2017
- 10 Bignozzi S, Zaffagnini S, Akkawi I, Marko T, Bruni D, Pia Neri M, Colle F, Marcacci M. Three different cruciate-sacrificing TKA designs: minor intraoperative kinematic differences and negligible clinical differences. Knee Surg Sports Traumatol Arthrosc 2014; 22:3113-3120
- 11 Interne Daten – Greenwald S. Classification of Mobile Bearing Knee Design: Mobility and Constraint, 2002
- 12 Interne Daten – Innocenti B. GEMINI SL Fixed Bearing PS – Biomechanical Analysis of the Post-Cam System, 2017
- 13 Toutoungi DE, Lu TW, Leardini A, Catani F, O'Connor JJ. Cruciate ligament forces in the human knee during rehabilitation exercises. Clin Biomech. 2000 Mar;15(3):176-87.
- 14 Insall JN. Historical Development, Classification, and Characteristics of Knee Prostheses. In Surgery of the Knee 2nd Edition, John N. Insall Ed.; Churchill Livingstone, 1993

Waldemar Link GmbH & Co. KG and/or other corporate affiliated entities own, use or have applied for the following trademarks in many jurisdictions: LINK®, GEMINI® SL®, LINK PorEx®

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and/or names or their products and are the property of their respective owners.

 **Waldemar Link GmbH & Co. KG**

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