

Three-dimensional measurement of a hip prosthesis during quality control



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Moving on.
Arthroplasty from LINK.



Owner-managed • Global • Innovative

- Established on Jan 1, 1948
- More than 50 years' experience in arthroplasty
- Operating in more than 70 countries
- More than 35,000 custom-made implants produced since the 1970s

Main entrance to LINK's production facility in Norderstedt, near Hamburg

Our focus is people.

For all of us, retaining our mobility is essential. In many ways, it is key to leading an independent, active life. That's why we at LINK are driven by the goal of enabling people who need a joint prosthesis to live a normal life, free of pain.

As an owner-managed firm, based in the city of Hamburg, we set standards in primary and revision arthroplasty of major joints. Our extensive product range means that we are able to offer the optimal solution for each specific case and personal requirements – with high-quality, innovative and bioharmonious prostheses.

Our objectives:

- Enhanced quality of life for patients, with improved, pain-free mobility
- Highly successful outcomes of sometimes very complex procedures
- Excellent patient and physician satisfaction ensured by outstanding long-term results

Helmut D. Link
Proprietor



From primary arthroplasty to megaprosthesis.*



MobileLink®

Acetabular cup system

- Universal modular system for acetabular replacement
- Cementless with high intraoperative modularity



Lubinus SP II®

Hip prosthesis system

- Anatomical design modeled after the natural shape of the femur



LINK® Sled prosthesis

Unicondylar total knee replacement

- Bone and soft tissue-conserving design for minimally invasive procedures



LINK® Embrace

Shoulder prosthesis system

- Covers virtually all shoulder indications

Endo-Model®

Rotational knee prosthesis system

- For cases of severe instability and revisions



MP®

Reconstruction prosthesis

- As a revision prosthesis for second and multiple revisions
- Modular system for complex hip revisions



GEMINI® SL®

Anatomical total knee replacement

- Comprising Fixed Bearing CR, Fixed Bearing PS, Mobile Bearing



SP-CL®

Cementless, anatomically adapted hip prosthesis system

- Primary arthroplasty for a wide range of patients

MEGASYSTEM-C®

Tumor and revision system

- Modular system for cases of major bone loss

*Some products may not be offered in all countries, as availability is subject to national licensing requirements.

Quality at all levels.

Development, materials, production – there are many factors that contribute to the quality and durability of a prosthetic joint. We have them all firmly in focus.

- **Training:** At LINK, training is provided to the German standard, combining college attendance with working in the company. This means we can be sure of recruiting the next generation of skilled and qualified staff members.
- **Development:** Our constantly growing team of development specialists, known as DERU®, is dedicated to developing new products and identifying areas where we find potential for improvement. They are the driving force behind innovation at our company.
- **Production:** Our strength lies in the combination of manufacturing expertise and seamless quality control throughout every stage of the production process. From investment casting of the raw prosthetic joints in our own VACUCAST® foundry to finishing and packaging at our Norderstedt plant, the entire production process is in-house.
- **German quality – worldwide:** In addition to our manufacturing operations in Germany, we also aim to be local for our international customers. Here our production plant in Beijing has a major role to play. We are also planning to establish further international operations.



Quality
“made in Germany”



Ongoing investment
in R&D



Outstandingly
documented clinical
results¹

¹Swedish Hip Arthroplasty Register, www.shpr.se.

Close collaboration is the key
to intelligent solutions



LINK

“We’re always searching for a fresh view and are ready to study and evaluate new ideas and approaches. This flexibility enables us to provide optimal solutions for our customers and their patients.”

Helmut D. Link, Proprietor

For our development projects,
LINK invites experts and practitioners

A win-win partnership.

A close collaboration with medical professionals based on mutual trust is a cornerstone of our success.

We benefit from the experience of the surgeons who use our products, and utilize the new insights we gain to develop new products. For everyone’s benefit.

Tailored service modules:

- **LINKademy®:** When it comes to qualifying physicians and surgeons in the use of our products, we supply a whole range of scientific symposiums, training seminars and visiting surgeon programs at German and internationally leading hospitals.
- **customLINK®:** Where off-the-shelf products come up short, customized solutions are often the only choice. Our custom-made implants cover a wide range of bone and joint requirements – including components for children.
- **3D surgical planning:** With our 3D software, we assist you with the detailed preoperative planning for hip joint replacement. Precise 3D assessment of each patient’s individual anatomy enables us to provide personalized hip prostheses.
- **LINK® TOOLBOX®:** We supply the implants and instruments to suit the specific operation. We will supply you with our TOOLBOX®, with the instruments carefully arranged, and will collect it again after use.

New technologies for perfect products.

LINK is known around the world for the quality of its innovative product developments. The company is permanently at the cutting edge of new technologies, taking account of the latest trends while always remaining loyal to its own philosophy and technical standards.



• **Bioharmonious implant design:** Our aim is always to enable a natural gait for the patient. To this end, we are continuously enhancing our product designs to accurately reflect the human anatomy and physiology.



• **Metal alloys:** Our titanium and cobalt-chromium alloys offer high purity, biocompatibility, corrosion resistance and outstanding physical properties that regularly surpass the required standards. This is achieved by means of a proprietary investment casting process.



• **Surface modification:** Special processes are employed to create an implant surface with an open-pore, large-cell structure which promotes osteoconduction and allow a stable osseointegration for secondary stability.² Other innovative surface modifications play an important role, for example in the treatment of patients with hypersensitivity to metal, or to provide protection against biofilm formation in patients at risk of infection.^{3,4}



• **Three-dimensional structures:** The additive manufacturing process makes it possible to achieve complex geometries – such as our new three-dimensional TrabecuLink® structure, which is used to compensate for bone defects, or in the production of custom-made implants.⁴ Pore size, porosity and structure depth provide a good basis for optimal bone ingrowth.

² GLP report 235346 NAMSA, Evaluation of Local Tissue Effects, Performance and Degradation of a Trabecular Structured Implant with CaP Coating following Intra-Osseous Implantation in the Sheep, 2019.

³ Cao H. et al. (2011): Biological actions of silver nanoparticles embedded in titanium controlled by micro-galvanic effects. *Biomater*, Vol 32, Iss 3, 2011, S. 693–705.

⁴ Some products and coatings may not be offered in all countries, as availability is subject to national licensing requirements.



“We develop, produce and market only implants that we would be willing to have implanted in ourselves.”

Helmut D. Link, Proprietor

Surgeons are astonished of the elastic design and the three-dimensional structure of TrabecuLink® Tibial Cones