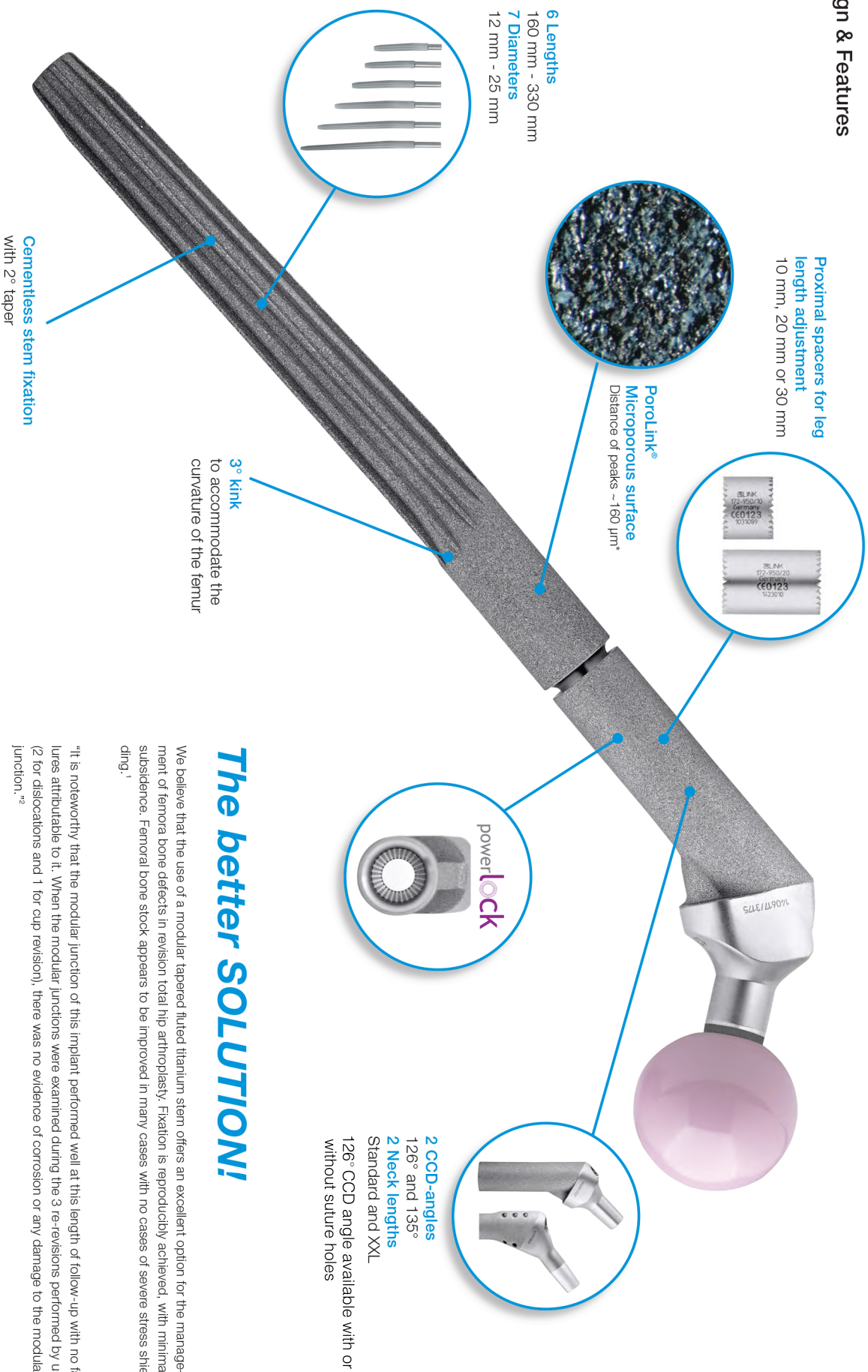




MP[®] Reconstruction Prosthesis

cementless

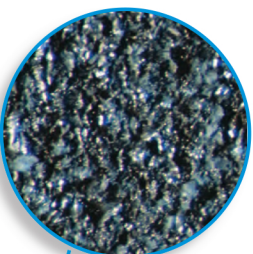
Design & Features



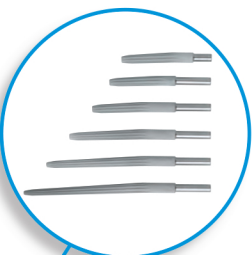
Proximal spacers for leg length adjustment
10 mm, 20 mm or 30 mm



Porolink®
Microporous surface
Distance of peaks ~160 µm*



6 Lengths
160 mm - 330 mm
7 Diameters
12 mm - 25 mm



3° kink
to accommodate the curvature of the femur

Cementless stem fixation
with 2° taper



powerlock



2 CCD-angles
126° and 135°
2 Neck lengths
Standard and XXL
126° CCD angle available with or without suture holes

The better SOLUTION!

We believe that the use of a modular tapered fluted titanium stem offers an excellent option for the management of femora bone defects in revision total hip arthroplasty. Fixation is reproducibly achieved, with minimal subsidence. Femoral bone stock appears to be improved in many cases with no cases of severe stress shielding.¹

"It is noteworthy that the modular junction of this implant performed well at this length of follow-up with no failures attributable to it. When the modular junctions were examined during the 3 re-revisions performed by us (2 for dislocations and 1 for cup revision), there was no evidence of corrosion or any damage to the modular junction."²

Conical stem in LINK® philosophy proven for more than 30 years

Made in Germany



* Bobyns study revealed an optimal distance of peaks between 50 and 400µm (important for osseointegration)

LINK® MP®: All the advantages of a modular stem without any of the disadvantages!

Clear Indication

"To our knowledge, there is no other modular, cementless, distally fixed implant for which in the face of deficient proximal support of the prosthesis is advocated by the manufacturer."⁸

Strength

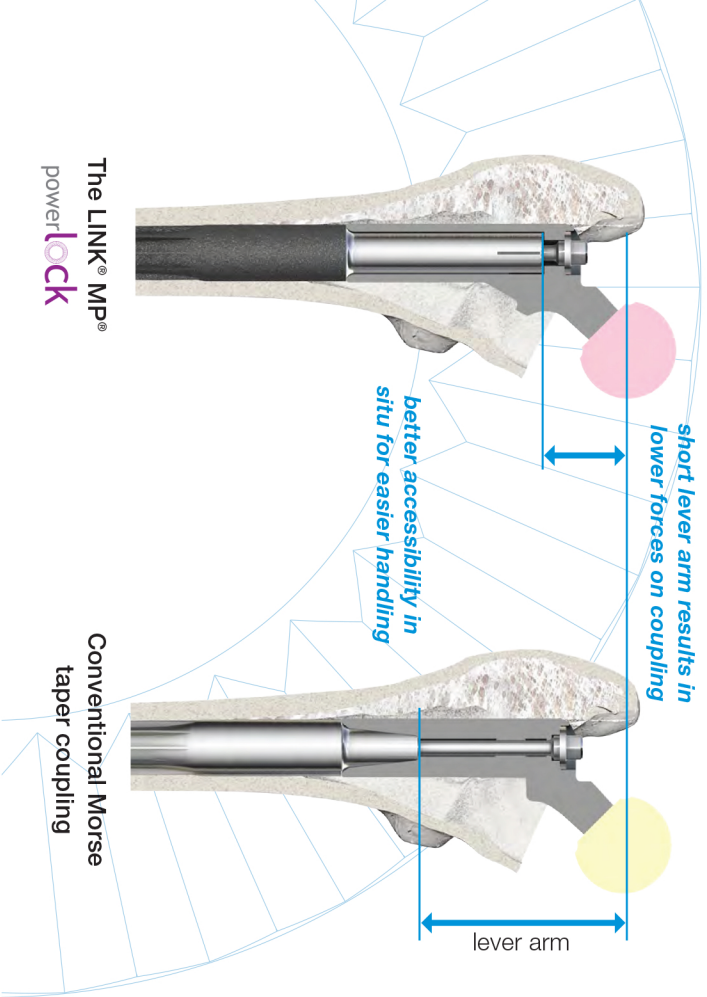
Location of locking mechanism, not a Morse taper design "[...] strongly suggest a structural benefit of the extreme length of the distal neck sleeve."⁸

Fully Proven

LINK® MP® testing data conclusion: "[...] the structural characteristics of the LINK® MP® Hip Stem are such that it offers the prospect of in vivo longevity."⁸

No reported junction fracture

Proximal junction guarantees a safer connection



Expansion Screw - the better solution

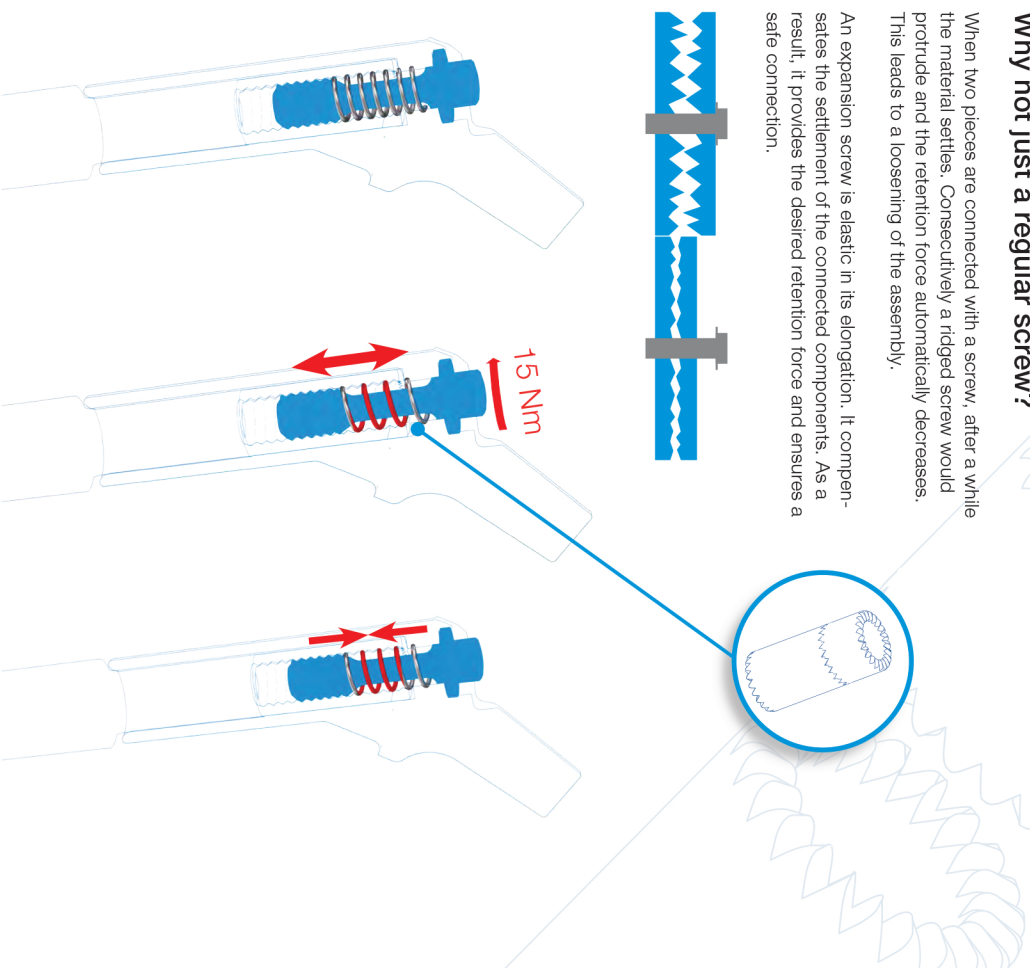
Expansion screws are commonly used in any heavy duty situation, such as engines and big machines, where dynamic forces and alternating stress occurs.

Due to the geometry in this slim midsection, the expansion screw is distinctly elastically stretchable (like a spring). When tightened with a defined torque, the expansion screw stretches until the desired retention force is reached. This force contracts and secures the neck segment and stem.

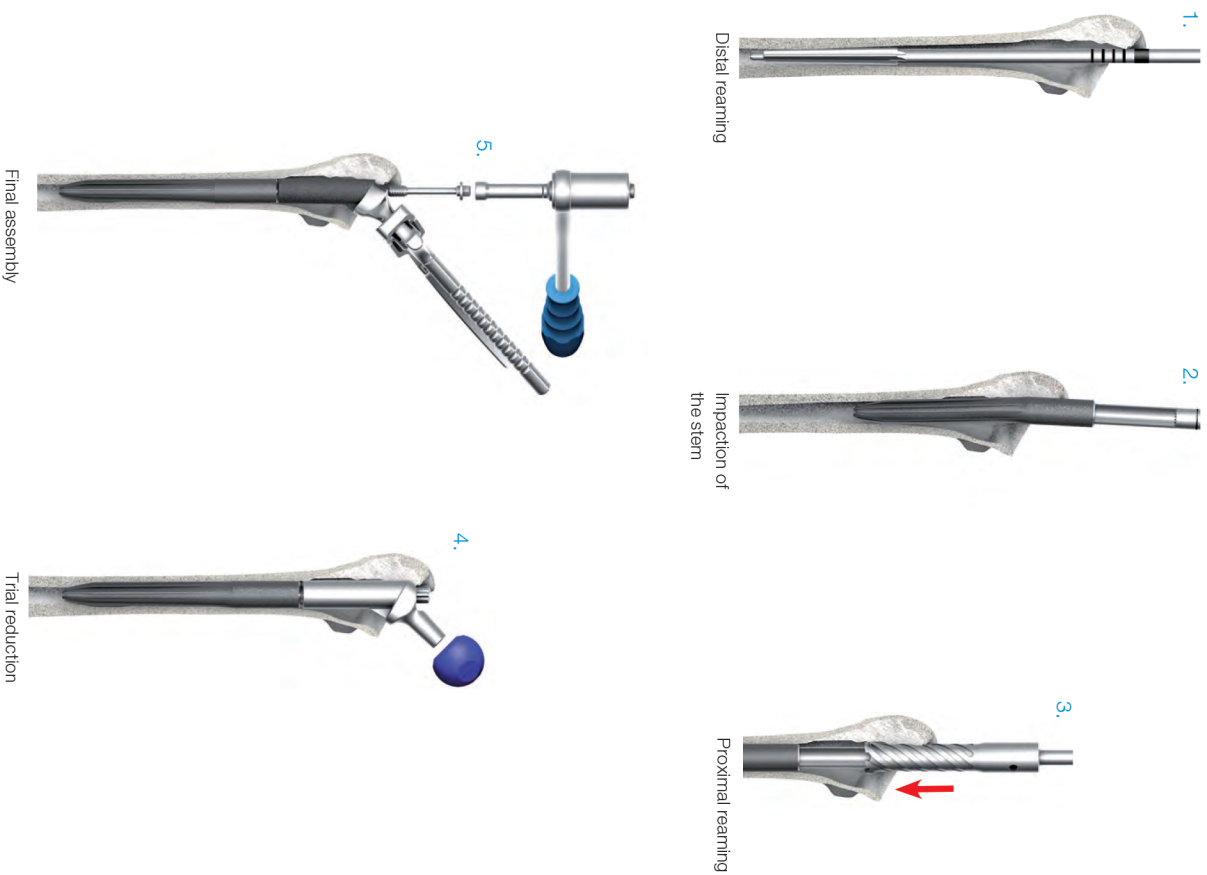
Why not just a regular screw?

When two pieces are connected with a screw, after a while the material settles. Consecutively a ridged screw would protrude and the retention force automatically decreases. This leads to a loosening of the assembly.

An expansion screw is elastic in its elongation. It compensates the settlement of the connected components. As a result, it provides the desired retention force and ensures a safe connection.



Surgical Technique - Summary



Simple and precise surgical technique

Low risk of stem subsidence

Features

Strong primary stability

Fewer instrument trays

Trial implants to ensure joint stability



„Quotes“

In our opinion, the MP® reconstruction stem offers a variety of advantages in direct comparison with non-modular revision implants. These include distal fixation without further cementing; adjustment of the femoral neck; variable offset and rotation, and, furthermore, related adjustments of the soft tissue.³

In this study, radiographic evidence of osseointegration (involving the “distal segment” of the implant) was seen in all stems, and there were no cases of progressive subsidence or subsidence beyond 10mm. [...] in conclusion, the “LINK® MP® stem” achieved reproducible and durable implant fixation, as well as restoration of clinical function in femoral revision with bone-loss.²

At final follow-up, all patients had stable implants and all acute fractures were healed. Marked reconstruction of proximal femoral bone stock was observed consistently. [...] the preliminary result of this method show a high rate of stable implant fixation and fracture healing with preservation and reconstitution of the host femur.⁴

¹Rodriguez et al. – two-year to five-year follow-up of femoral defects in femoral Revision treated with the LINK® MP® Modular stem, The Journal of Arthroplasty Vol. 24 No. 5 2009

²Rodriguez et al. – Reproducible fixation with a tapered, fluted, modular, titanium stem in revision hip arthroplasty at 8-15 years follow-up, The Journal of Arthroplasty 29 Suppl. 2 (2014) 214-218

³Klauser et al. - Medium-term Follow-Up of a Modular Tapered Noncemented Titanium Stem in Revision Total Hip Arthroplasty, The Journal of Arthroplasty Vol 28 No. 1, 2013, 84–89

⁴Berry –Treatment of Vancouver B3 Periprosthetic Femur Fractures With a Fluted Tapered Stem, Clinical Orthopaedics and related research Number 417, pp 224-231

⁵Postak PD, Greenwald AS: The Influence of Modularity on the Endurance Performance of the LINK® MP® Hip Stem. Orthopaedic Research Laboratories, Cleveland, OH, 2001 - Note: Depicted expansion bolts not cleared for sale in the U.S.A.

⁶Kwong LM, Miller JA, Lubinus P: A Modular Distal Fixation Option for Proximal Bone Loss in Revision Total Hip Arthroplasty. J Arthroplasty Vol. 18 No. 3 Suppl. 1 2003

CE 0123

Waldemar Link GmbH & Co. KG

Barkhausenweg 10 · 22339 Hamburg, Germany

P.O. Box 63 05 52 · 22315 Hamburg, Germany

Tel.: +49 40 53995-0 · Fax: +49 40 5386929

E-mail: info@linkhh.de · www.linkorthopaedics.com

