



Optimys Reconstructive, bone preserving & proven



PRODUCT INFORMATION

optimys

The optimys hip stem is one of the possible solutions for young and active patients but also suitable for older patients with good bone quality. It is designed to restore the individual anatomical conditions of the patient. ^{1, 2, 3} The design preserves more bone and surrounding tissue structures than a traditional primary stem ^{2, 3, 4} and allows the surgeon to perform all minimal invasive surgical techniques. The system features a streamlined product portfolio and instrumentation to ensure a straightforward handling.

Rectangular impaction hole

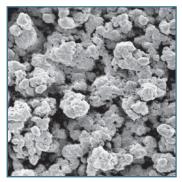
Safe and rotation-guided insertion

The rectangular impaction hole allows a controlled positioning of the implant using the impactor. Anteversion can easily be reproduced.

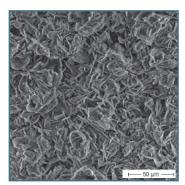
Titan Plasma Spray and Calcium Phosphate coating

Good mechanical anchoring and accelerated osseointegration

The rough titanium plasma sprayed coating offers a secure anchorage in the bone and the overlaying calcium phosphate coating promotes a rapid osseointegration for a good secondary stability.^{5, 6}



Titan Plasma Spray (TPS)



Calcium Phosphate (CaP)



Trapezoidal neck geometry

Triple taper design

Good primary stability

The effectiveness of tapered stem designs has been clinically proven over many years. The triple taper of the optimys stem ensures a controlled and rotational stable fixation in the metaphyseal area of the femur. ¹ The risk of subsidence is minimised. ⁷

Anatomical curvature

Anatomical fit along the calcar arch

optimys restores the individual anatomical conditions of the patients. ^{1, 2, 3} Extensive X-ray and CT analysis have been performed to determine the final shape of the stem, especially at the calcar arch. Due to the distinctive curvature, the optimys stem may be used for almost all primary cases. ^{2, 8}



Polished distal tip

Avoids distal osseointegration

The distal part of the stem features a round tip for easy insertion. $\ensuremath{^3}$

- ¹ Kutzner K.P., Kovacevic M.P., Roeder C., Rehbein P., et al. Reconstruction of femoro-acetabular offsets using a short-stem. Int Orthop, 2015. 39(7): p. 1269-75
- ² Jerosch J. Kurzschaftendoprothesen an der Hüfte.
 2017: Springer. 315
- ³ Kutzner K.P., Donner S., Schneider M., Pfeil J., et al. One-stage bilateral implantation of a calcar-guided short-stem in total hip arthroplasty. Operative Orthopädie und Traumatologie, 2017: p. 1-13
- ⁴ Hochreiter J., Hejkrlik W., Emmanuel K., Hitzl W., et al. Blood loss and transfusion rate in short stem hip arthroplasty. A comparative study. Int Orthop, 2017. 41(7): p. 1347-1353
- ⁵ Kutzner K.P., Donner S., Loweg L., Rehbein P., et al. Mid-term results of a new-generation calcar-guided short stem in THA: clinical and radiological 5-year follow-up of 216 cases. J Orthop Traumatol, 2019. 20(1): p. 31
- ⁶ DOT Medical Implant Solutions. http://www.dot-coating.de
- ⁷ Bieger R.I., A.;Reichel, H.;Durselen, L. Biomechanics of a short stem: In vitro primary stability and stress shielding of a conservative cementless hip stem. J Orthop Res, 2013. 31(8): p. 1180-6
- ⁸ Pfeil J., Siebert W., Grieshaber H.M. optimys, in Kurzschaftendoprothesen – Wo liegen die Unterschiede?, J. Jerosch, Editor. 2012, Deutscher Ärzte-Verlag. p. 23-40

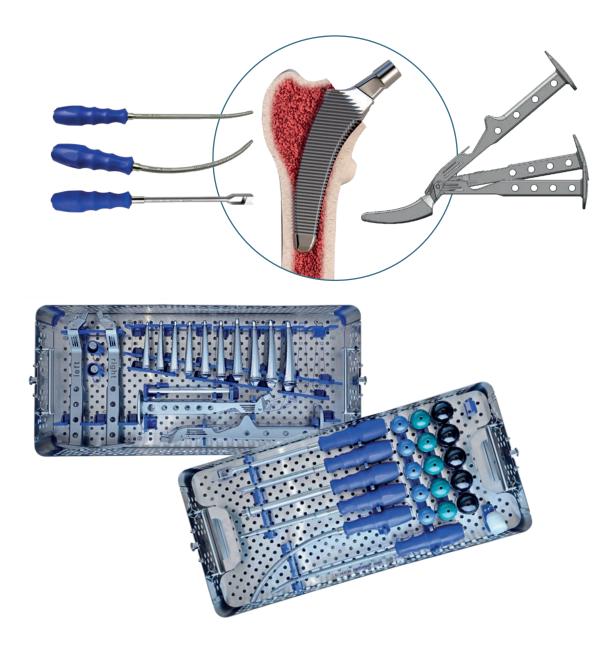
optimys



Well-thought-out instrumentation for a straight forward handling

The optimys instrumentation offers intra-operative flexibility. Various starter instruments and rasp handles for all MIS approaches are available to accommodate the surgeon's preferences.

The optimys rasps ensure a precise preparation of the implant bed with the goal of having a stable positioning of the implant.³







Mathys Orthopädie GmbH An den Trillers Büschen 2 07646 Mörsdorf • Germany