

BONE SCREWS AND PLATES

For bone screws requiring sharp, burr-free edges and smooth surfaces, Mass Finishing ensures excellent results and can be enhanced with Electro Finishing for high-quality needs. The extended process chain removes microscopic peaks, prevents bacterial adhesion, and simplifies sterilization.

For bone plates, where strong edge rounding and a homogeneous surface are required, mass finishing combined with electrofinishing achieves flawless surfaces. This improves fit and allows implants to be integrated stress-free into the body.



Bone plate

IMPLANTS – SURFACES FOR MAXIMUM FUNCTIONALITY

The lifespan of medical implants significantly depends on surface quality. Specific requirements such as smooth contact areas or high-gloss surfaces demand tailored processing solutions.

High-Gloss polished joint implants: Hip and knee implants benefit from OTEC Mass Finishing, which removes machining marks and achieves surface roughness values of up to $Ra = 0.01 \mu m$. Electro Finishing complements the process by eliminating micro-scratches, creating high-gloss, biocompatible surfaces that:

- Reduce abrasion.
- Increase glide performance.
- Prolong implant durability.



Bone screw

COMPLEX PROSTHESES

For linked knee prostheses with intricate internal geometries, OTEC technologies provide ideal solutions:

- **Mass Finishing** efficiently processes hard-to-reach areas through controlled motion and specific workpiece angles.
- **Electro Finishing** smooths complex geometries, enhances resistance to external factors, and improves the sliding properties of contact areas.



Knee prosthesis

YOUR PARTNER FOR PERFECT SURFACES

OTEC combines Mass Finishing and Electro Finishing to provide optimal solutions for any surface requirement. We invite you to discover the precision and efficiency of our processes tailored to your specific needs. At our in-house Finishing Center, clients from around the world can process sample components to define the ideal method.

Contact us today to learn more about how our technologies can give you a competitive edge in medical technology.

OTEC Präzisionsfinish GmbH – Your Expert in Surface Precision.

OTEC Präzisionsfinish GmbH
Heinrich-Hertz-Straße 24
75334 Straubenhardt-Conweiler
Germany +49 7082 4911 711
sales@otec.de
www.otec.de