

EPAG-SMART T

Electropolishing Unit





OTEC PRÄZISIONSFINISH

Constantly reinventing mass finishing!

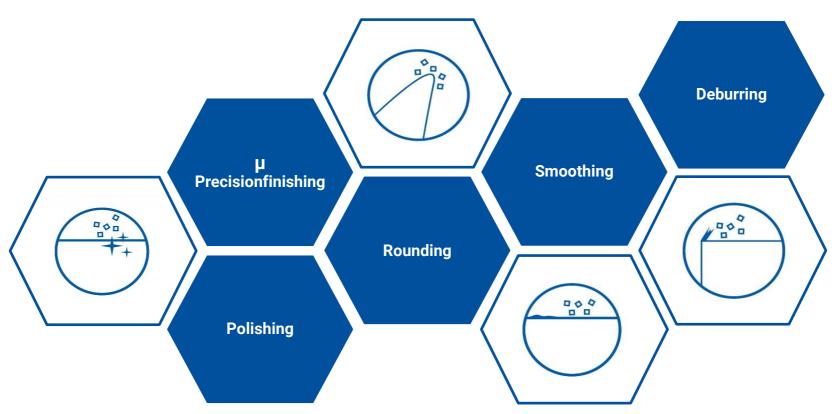


- Targeted surface processing (e.g. deburring, rounding, grinding and polishing)
- Process development and machinery from a single source tailored to your finishing requirements
- Acid-free, reliable, repeatable and rapid mechanical processing for workpieces



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Competences





EPAG-SMART







TECHNICAL FEATURES OF THE EPAG-SMART

Highest technological standards in a compact design



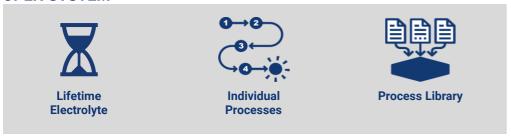
EPAG-SMART HIGHLIGHTS

Efficiency and digital progress for production

EFFICIENT



OPEN SYSTEM





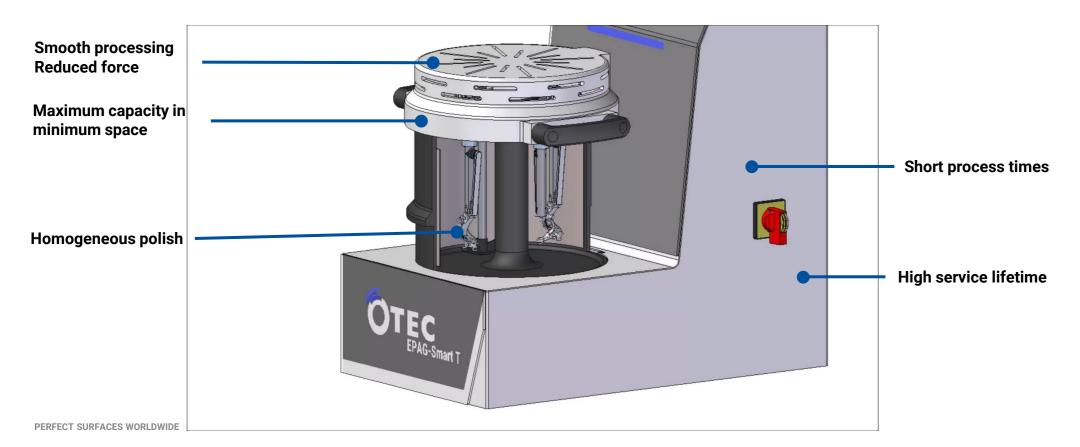
INDUSTRY 4.0





EPAG-SMART

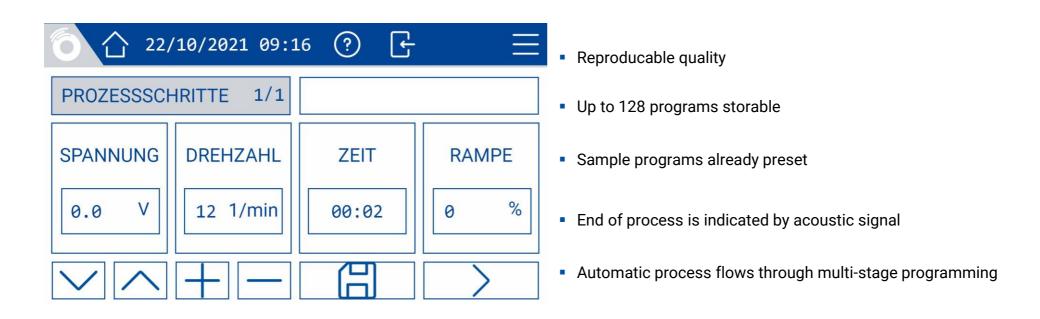
Maximum capacity in minimum space





OPERATING THE EPAG-SMART

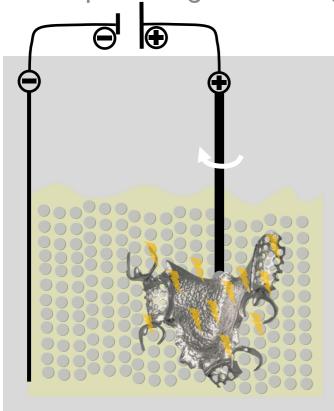
Intuitive control thanks to simple programming





WORKING PRINCIPLE OF THE EPAG-SMART

Electropolishing for homogeneous smoothing and polishing



Requirements

Voltage source I Process container I Cathode I Anode I Workpiece I Electrolyte I Solid

Process

- 1. Applying voltage and current
- 2. Rotation of the workpiece
- 3. By electrochemical reaction: ions are dissolved out of the workpiece material
- Solid absorbs these ions
 Saturation of the solid material occurs
 Solid material and electrolyte must be exchanged

Advantages:

- Solid content slows down the reaction chain
- Solid material provides ion exchange
- Shielding effects are significantly reduced due to a flow around

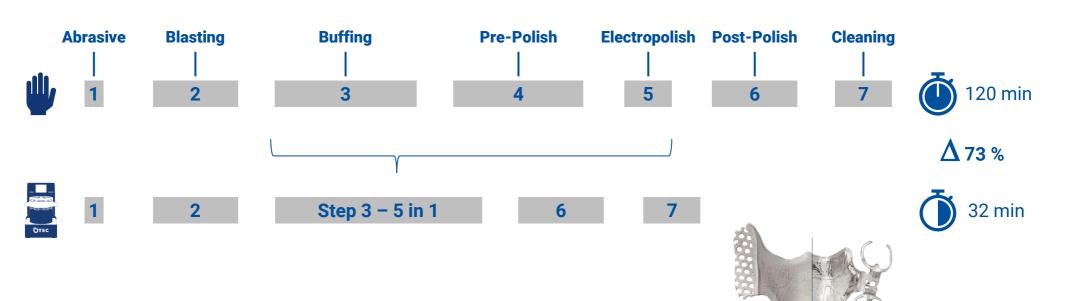
→ More homogenous process



PROCESS OPTIMIZATION TRHOUGH EPAG-SMART

Up to a 70% reduction in process time

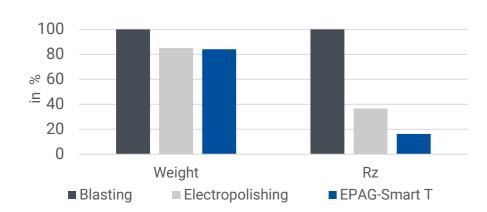
Process times for machining 2 clasp dentures:

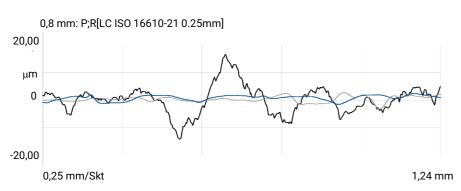


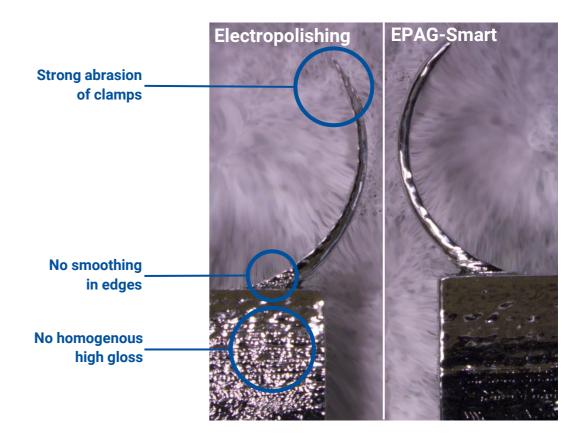


COMPARISON: ELECTROPOLISHING AND EPAG-SMART

EPAG-Smart can smooth and polish homogeneously - the brightener cannot!



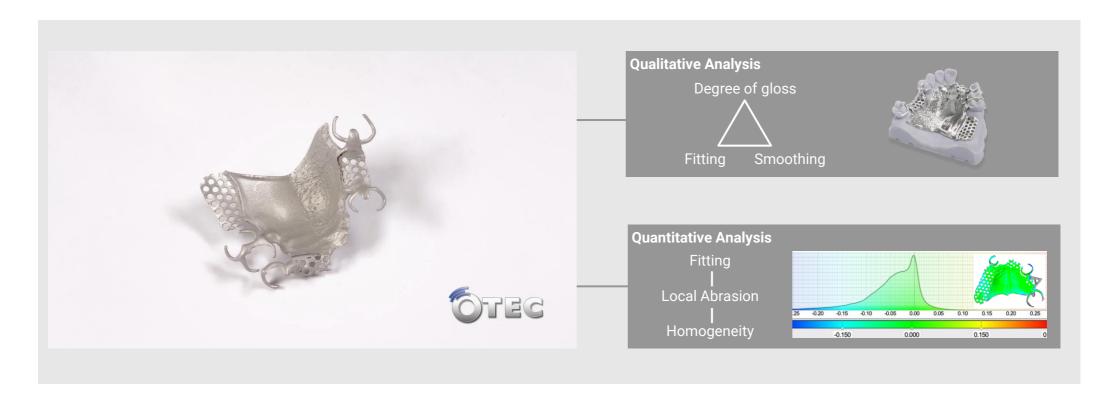






PARTIAL DENTURE: QUALITY ASPECTS

It has to fit and shine!





APPLICATION EXAMPLE

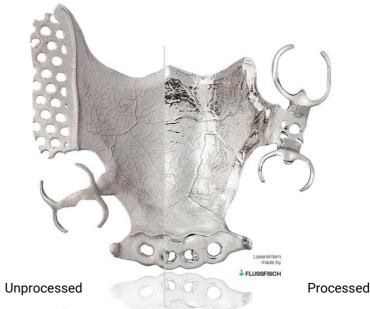
Denture clasps

Processing task

- Smoothing and polishing
- Aim: Homogeneous gloss without excessive removal of shape-critical elements (edge trim and brackets).

Your benefit:

- Geometries remain undamaged
- Manual effort is reduced to a minimum
- Processing of 3 dentures clasps in 20 30 minutes
- Reduction of unit costs
- Homogenous surface



PERFECT SURFACES WORLDWIDE

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