INHOUSE FABRICATION OF CUSTOM TITANIUM ABUTMENTS

cera\textregistered{} mill\textsuperscript{"} ti-forms
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Ceramill Ti-Forms are titanium abutment blanks with prefabricated connection geometries, which are used for fabricating titanium abutments inhouse. The wide range of blanks available for implant systems are processed using the rotational milling technique. In rotational milling the workpiece continually rotates about its own axis while the abutment is milled from the material via multipass milling. This technique not only saves the travel paths of the cutter but also reduces the material uniformly and homogeneously as well as creating surfaces with a precise, smoothly milled pattern. Users profit from a saving in time and increase in precision with full value creation.

- Reliable and precise due to industrially prefabricated implant connection geometry
- Prefabricated blanks ensure minimal tool wear and saving in time and costs
- High biocompatibility of the abutment blanks and screws due to the proven material Ti6Al4V (medical grade 5, ASTM 136)
- Titanium blanks are available for all conventional implant systems

FABRICATION COSTS OF TITANIUM ABUTMENTS
In addition to rotational milling technology, very precise processing of the Ceramill TI-Forms is also guaranteed by a special holder geometry. It enables the blank to be processed clamped absolutely securely, distortion-free and rotationally symmetrical. This exact and constantly stable positioning of the blank on the rotation axis as well as in relation to the milling head is enabled due to bilateral fixation of the blank and ensures vibration-free and completely quiet processing. Precision calibration, which synchronises the design data with the position of the clamped blank before the milling procedure, is required once and guarantees that the height and angle of the customised abutment is fabricated correctly in relation to the connection geometry. Due to clamping the blank on the face side the implant connection geometry is not subjected to any loading or wear during milling, which could impair the fit of the abutment in the implant.

- **Special holder geometry guarantees absolutely firm clamping and process reliability**
- **Automatic synchronisation of design data and blank position by precision calibration - ensures the correct alignment of abutment and implant connection geometry**
- **Rotational milling technique guarantees high surface quality and machine-friendly material processing due to uniform loading of the axis**
- **Clamping of the blank on the face side ensures that there is no wear or possible damage of the implant connection geometry**
ECONOMIC, INHOUSE, PROCESS RELIABILITY

**ECONOMIC**
- High degree of process reliability due to perfectly coordinated components
- Great gain in time, cost and precision thanks to complete inhouse fabrication
- Maximum value creation and increased profits due to extended use of the CAD/CAM system
- Seamless workflow ensures efficient, cost-effective working process with highly precise final results
- Low investment costs thanks to Plug&Play blank holder

**INHOUSE**
- Industrially prefabricated titanium abutment blanks with implant connection geometry.
- Plug & Play blank holder for Ceramill Mikro IC and Ceramill Motion 2.
- High-grade tungsten carbide cutter with excellent chip removal and long service life.

**PROCESS RELIABILITY**
- ZUBEHÖR
- ACCESSORY

**Software module with integrated Ceramill Ti-Forms library.**

**Industrially prefabricated titanium abutment blanks with implant connection geometry.**

**Plug & Play blank holder for Ceramill Mikro IC and Ceramill Motion 2.**

**High-grade tungsten carbide cutter with excellent chip removal and long service life.**
### Order Information

**Upgrade Kit Ceramill Ti-Forms Ceramill Motion 2 5X**

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**Upgrade Kit Ceramill Ti-Forms Ceramill Mikro IC**

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Slide callipers

Titanium abutment blanks and components for individual single abutments made of titanium can be found in our catalogues “Ceramill Implant Prosthetics” or at [www.amannirrbach.com/downloads](http://www.amannirrbach.com/downloads).

### Ceramill Ti-Forms Compatible Implant Systems

**Multi Platform Solution**

- Altatec® / Camlog®
- Altatec® / Conelog®
- BEGO Implant Systems® / Semados® S / RI / RS / RSX
- BIOMET 3i® / Certain®
- BIOMET 3i® / External Hex
- Bredent Medical® / SKY®
- DENTSPLY Implants® / Astra TECH OsseoSpeed® EV
- DENTSPLY Implants® / Astra TECH OsseoSpeed® TX
- DENTSPLY Implants® / XIVE® S
- Medentis Medical® / ICX®
- Nobel Biocare® / Brånemark®
- Nobel Biocare® / NobelActive® / NobelReplace® Conical
- Nobel Biocare® / NobelReplace® Tapered
- Straumann® / Bone Level®
- Straumann® / Tissue Level®
- Zimmer Dental® / Tapered Screw-Vent®

**Original System Partner**

- Straumann® / Bone Level®
- Straumann® / Tissue Level®
- MIS® SEVEN/M4/C1/V3
- BEGO Implant Systems® / Semados®