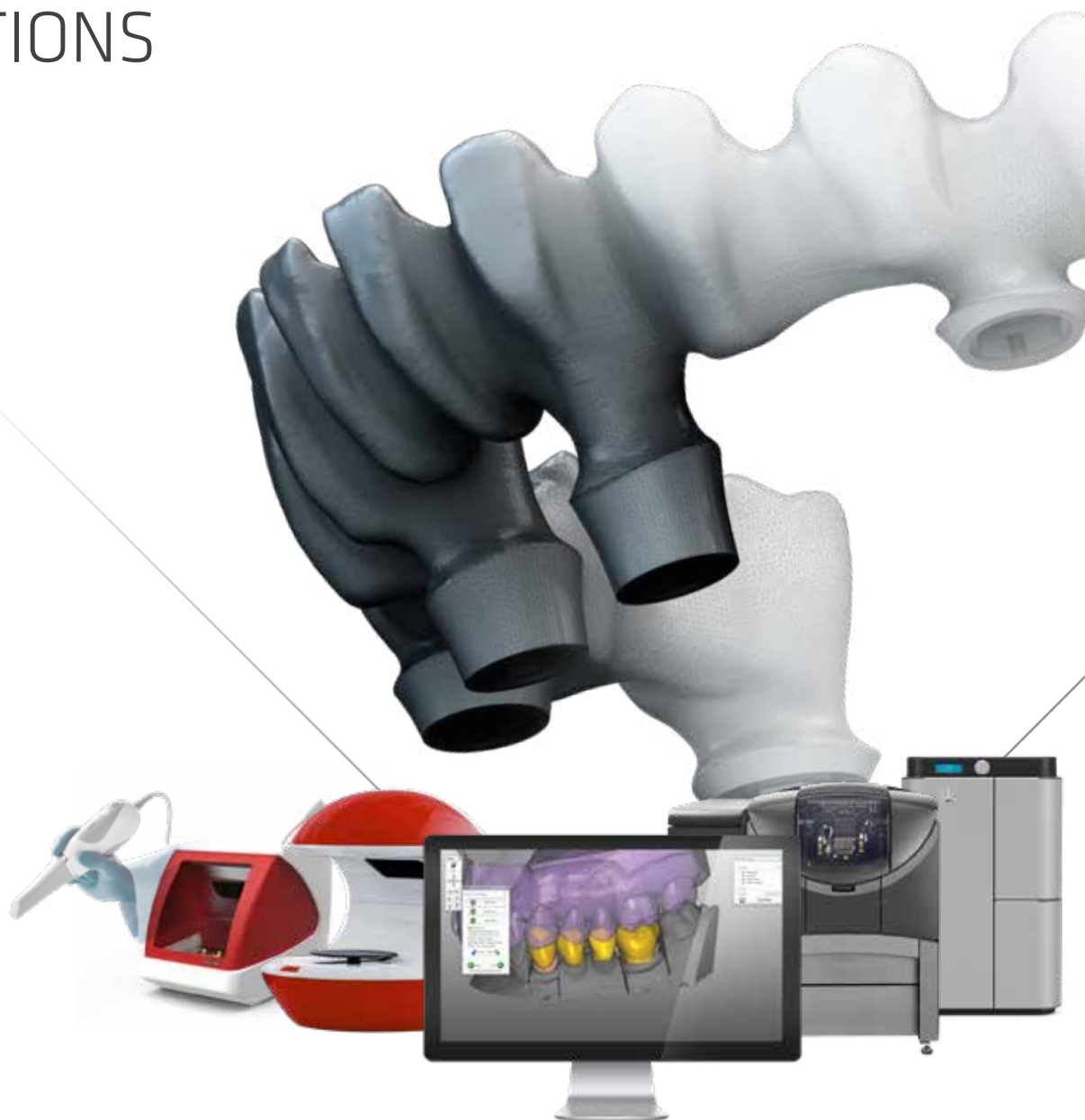


SERVICES  
FOR DENTAL LABORATORIES

**btk**  Implanting Trust,  
Smile Again!

# CAD-CAM

## SOLUTIONS



INNOVATIVE TECHNOLOGIES  
FOR DIGITAL DENTAL TECHNOLOGY

visit [btk.dental](http://btk.dental)

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# CAD-CAM

## SOLUTIONS

BTK CAD-CAM is a service for both digital and conventional dental laboratories.

**Dental structures can be directly made from the STL file generated by the laboratory or from the diagnostic wax-up that was previously modelled as is done for conventional casting techniques (3D digitalization service).**

Our specialty is offering the widest range of solutions and services for all indications and clinical needs, such as screw-retained and cemented solutions for abutment-level and implant-level single and multiple restorations, bars, toronto bridges and screw-retained

bridges with excellent passive fit levels. BTK libraries are completely open and can be used with the best CAD software (Exocad, 3shape, Dentalwings, Dental Cad, etc.).



### MILLING CENTRE

Semi-finished components of various materials for the dental sector can be made by means of milling processes and CAD-CAM technologies. The work flow entails scanning and digitalizing of the model, the check of the passive fit of the structure by probing and finally producing it in a highly precise and repeatable way with 5 axis machines.

**Available materials: Zirconium Oxide – PMMA – Titanium – Cobalt Chrome – PEEK**



### LASER MELTING

This is an additive production technique that uses micrometric powders and high-power laser to make the metal component, layer by layer. The production process features utmost precision and versatility and this allows to make metal parts with a complex geometry, which are difficult to make with conventional methods. Laser Melting is one of the most innovative technologies in the dental field for the production of single or multiple cemented prostheses. Thanks to its optimal porosity, stability and workability characteristics, the material produced is ideal for subsequent laboratory work.

**Available materials: Cobalt Chrome and Grade 5 biocompatible Titanium**



### DIGITAL 3D PRINTING

By means of 3D resin printing processes, you can make directly from STL files guided surgery templates and top precision and quality dental and orthodontic models. Thanks to the completely digital work flow, models can be directly obtained from the intraoral scan and can be made with removable dies and calibrated holes for analogues. The resin characteristics permit to accurately locate sensitive anatomic structures (e.g.: alveolar nerve, maxillary sinuses, incisive canals, etc.).

**Available material: Translucent acrylic resin**

### COMPATIBILITY

BTK CAD-CAM makes compatibility its element of excellence and also makes screw-retained structures on implants of other systems.

BTK CAD-CAM solutions are compatible with: Alpha Bio, Biomet 3i, Geass, Implant Direct, ITS, Keystone, Leader, Megagen, MIS, Neoss, Osstem, Sweden & Martina, Zimmer, etc.

**Please contact our milling center or visit the CAD-CAM page of the BTK website for an updated and complete list of compatible systems.**

# APPLICATIONS



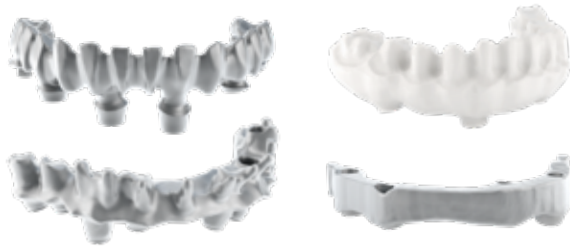
## STRUCTURES ON NATURAL TEETH

- Single crowns
- Bridges



## SCREW-RETAINED STRUCTURES

- Customized abutments
- Screw-retained single crowns
- Bridges on implants



## COMPLEX STRUCTURES ON IMPLANTS

- Anatomically reduced Toronto bridges
- Toronto bridges for commercial teeth
- Implant bars for overdenture

NOTE Possibility to insert in the bars threaded housings for Rhein 83, Bredent, Locator® attachments



## MATERIALS USED

GRADE 5  
BIOMEDICAL  
TITANIUM

COBALT  
CHROME

ZIRCONIUM  
OXIDE

PMMA

PEEK

3D PRINT  
RESIN

## PRODUCTION IN 3 WORKING DAYS

Manufacturing and execution rapidity together with the precision and reliability of the BTK CAD-CAM work flow are a guarantee of fast delivery. Standard works from STL file, or with model with wax-up, shipment within 3 working days from the day the file or model are received.

## ACCESSORIES



### CAD-CAM SCREWS

The design of the head of BTK CAD-CAM screws, together with the special milling of the screw canal, permit to achieve excellent passive fit levels of the screw-retained frameworks on implants. BTK CAD-CAM screws are characterized by a "flat head" geometry, where the joint between head and screw thread is at 90°. This design makes it easier to fasten the screws in case of multiple connections (implant bridge, Toronto bridge, bar) thereby guaranteeing the passive fit of the framework. Use the HEX 1.20 driver for retention screws.



### BT LINK

The BT LINK titanium base can be used in the everyday work flow of the laboratory since it fits both modern CAD-CAM design and production techniques and conventional modeling and investment casting techniques. The product has been developed for the production of customized abutments, bridges and screw-retained frameworks using the gluing technique. The package contains the titanium base, the castable coping and the retentive screw. Product packages without the castable component are also available. Please contact the BTK CAD-CAM Milling service directly for information about currently available implant platforms.



### EXTRA-ORAL SCAN ABUTMENT

BTK CAD-CAM offers a wide range of scan abutments for the fabrication of prosthetic components using the CAD-CAM technique. In the modeling phase, the acquisition and recognition of the scan abutment guarantee the correct positioning of the implant connection of the restoration. Please contact the BTK CAD-CAM Milling service directly for information about currently available implant platforms and about the compatibility of scan abutments with your scanner.



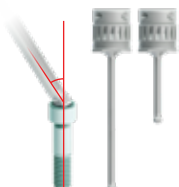
### INTRA-ORAL SCAN ABUTMENT

BTK CAD-CAM provides scan abutments for impressions taken using an intraoral scanner. The CAD-CAM service permits to rapidly produce the prosthetic components with fully digital techniques. Please contact the BTK CAD-CAM Milling service directly for information about currently available implant platforms and about the compatibility of the scan abutments with your scanner.



### COCR BASES

BTK CoCr bases have been developed for prosthetic restorations made with the cast-on technique. The CoCr base consists of an industrial metallic connection and a castable cylinder (the product package includes the retentive screw). BTK has implemented in its implant libraries CoCr bases with or without castable element to allow for both digital and conventional investment casting production processes. Please contact the BTK CAD-CAM Milling service directly for information about currently available implant platforms.



### BT GRIP SOLUTIONS FOR TILTED HOLES

BTK offers a solution to maximize the aesthetic outcome of screw-retained restorations. The possibility of using BT GRIP components, screws and screw-drivers that have been specifically developed for this purpose, permits to design access holes for the retention screws, which are tilted with respect to the implant axis, thereby avoiding holes on the incisal edge or on the buccal aspect of the tooth. This solution permits to exploit all the advantages of screw-retained restorations compared with cemented prostheses. The BT GRIP system uses HEX 1.50 mm drivers and screws and permits to manage angulated screw channels with angles up to 25°. Please contact the BTK CAD-CAM Milling service directly for information about the compatibility of the screws with the implant platforms.

<http://upload.btk.dental/btk3d>

**Immediate uploading of the DICOM file of the patient's tomography.**



For more INFO write to: [btk3d@btk.dental](mailto:btk3d@btk.dental)

FOLLOW US ON



# CENTER OF EXCELLENCE CAD-CAM

BTK CAD-CAM is an integrated and complete system that can be adjusted to meet any need.

There are several reasons why you should use our services: our milling service for dental laboratories, our consolidated know-how and continuous updating, our team of specialists, our technical support and the most advanced technologies, together with top level production standards.

## ADVANTAGES

When you choose BTK, in addition to benefiting from the variety and flexibility offered by our CAD-CAM dental products, you are guaranteed the best reliability of every aspect of the process, from the design to the finishing of each component.

FLEXIBLE  
SOLUTIONS

FROM  
IMPRESSION TO  
FINISHED  
RESTORATION

WORK FLOW  
OPTIMIZATION

HIGH QUALITY

COMPETENCE  
AND TECHNICAL  
SUPPORT



### **BTK PERSONAL TUTOR**

A program for individual case planning and execution supported by experienced professionals in order to leverage know-how and maximize clinical experience with the aim to achieve sustainable high patient satisfaction rates.

**BTK is always at your disposal for any request for further follow-up or information, promoting periodic and ad-hoc training course.**

### **CERTIFIED QUALITY SYSTEM**

**BIOTEC is certified UNI EN ISO 9001  
and UNI EN ISO 13485.**

### **MADE IN ITALY USED GLOBALLY**



We constantly ensure that the quality of our products and services meet the high expectations of our customers and their patients. Specialized professionals are taking care to offer comprehensive solutions in applied research, engineering, education and related activities.

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