

A close-up, high-contrast image of an owl's face. The left side of the owl's face is highlighted with a vibrant blue light, creating a wavy, ethereal effect that extends across the lower half of the image. The owl's large, dark eyes are prominent, and its feathers are detailed in shades of grey and black. The background is solid black.

# MILLING CENTER



**B&B DENTAL**  
IMPLANT COMPANY



# INDEX

## MILLING CENTER

|                             |   |
|-----------------------------|---|
| WORKFLOW .....              | 4 |
| EQUIPMENT .....             | 5 |
| CARE TO RAW MATERIALS ..... | 6 |

## KEY STRUCTURES

|  |    |
|--|----|
| KEY STRUCTURES .....   | 7  |
| CROWNS AND BRIDGES ON NATURAL TEETH .....  | 8  |
| CUSTOMIZED ABUTMENTS AND REDUCED ONE-PIECE CROWNS<br>OBTAINED FROM PREMILLED ..... | 8  |
| CEMENTABLE RESTORATIONS .....  | 9  |
| NON-ROTATING TI-LINK .....   | 9  |
| ROTATING TI-LINK .....   | 9  |
| MUA AND FLAT CONNECTION TI-LINK .....  | 9  |
| ONE-PIECE BARS ON IMPLANTS .....   | 10 |
| SCREW-RETAINED ONE-PIECE BRIDGES AND TORONTOS .....                                | 10 |
| PROTOTYPING SERVICE FOR PROSTHETIC MODELS .....                                    | 11 |
| INCLINED SCREW HOLE .....  | 11 |

## FILE PREPARATION

|                         |    |
|-------------------------|----|
| FILE PREPARATION .....  | 12 |
| IMPRESSION TAKING ..... | 12 |
| CLINICAL CASE .....     | 12 |

## B&B DENTAL MILLING SERVICE

|                                  |    |
|----------------------------------|----|
| B&B DENTAL MILLING SERVICE ..... | 13 |
| IMPORTANT INFORMATION .....      | 13 |
| WARRANTY AND RETURN POLICY ..... | 13 |

## COMPONENTS

|  |    |
|--|----|
| COMPONENTS FOR 3P, EV, WIDE LINES .....  | 14 |
| COMPONENTS FOR MUA PLATFORM .....        | 15 |
| COMPONENTS FOR SLIM LINE .....           | 16 |
| COMPONENTS FOR FLAT PLATFORM .....       | 17 |
| KEYS AND ACCESSORIES .....               | 18 |
| GUIDE YOUR SURGERIES TO PERFECTION ..... | 19 |

# B&B MILLING CENTER

The B&B Dental Milling Center is an internal division that offers support, develops and manufactures dental prosthesis and restorations in a wide range of materials, using CAD CAM systems.

We have developed dental libraries compatible with the B&B Dental implant system. We have state-of-the-art software, milling machines and 3D printers, operated by experienced engineers and skilled dental technicians.

In addition to technical support, we offer an innovative digital planning service for your guided surgeries using our Guide System software.

We are committed to helping you manage your cases independently, as well as offering you model and template printing services.

The expertise of our technicians centered around your needs delivers quality, accuracy and a fully customized final product.





# WORKFLOW



1

## RECEPTION

of STL file from CAD systems  
(3Shape, Exocad, Dental Wings).

3shape exocad dental wings



2

## FILE CHECK

before milling.



3

## PRODUCTION

Projects are set up in machine.



4

## FINISHING AND QUALITY CONTROL

before being tracked for shipment, each  
structure is checked by a skilled technician.

# TOOLS AND MACHINERY

We use the latest state-of-the-art milling machines and accept files from any open scanner system. The final check is carried out by skilled dental technicians to guarantee product quality and the precision of the prosthetic products manufactured.



## DATRON MILLERS

We have two Datron milling machines. One is used to mill metal and the other one for zirconium and PMMA structures. We mill material disks and premilled to obtain abutments with the utmost connection accuracy.



## SISMA LASER MELTING

For laser melting structures we rely on a Sisma MySynt 100 machine with dual sintering laser for higher speed. This high-precision tool enables us to manufacture both cobalt-chrome and titanium structures.



## STRATASYS 300BJ PRINTER

This printer features a processing plate that supports the print and management of multiple models with very high precision.



## UNIZ SLASH PLUS PRINTER

A compact, fast and precise machine for printing resin models that offers guaranteed high reliability and short processing times.

# CARE FOR RAW MATERIALS

We carry a broad range of raw materials to enable dental practices to choose the most suitable solution for each clinical case:

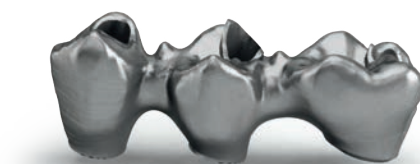
**Biomedical titanium:** restorations are milled from Gr 5 titanium discs or premilled meeting international standards. Titanium can also be used in conjunction with the laser melting process. This alloy exhibits excellent mechanical strength over time. It is ideally suited for full-arch restorations.

**Chromium-Cobalt:** Chromium-Cobalt discs and premilled are used in the milling process. This alloy can also be sintered and will retain its key characteristics: high corrosion resistance and well-proven biocompatibility.

**Zirconium Multilayer:** the natural shade progression of dentin and enamel is simulated thanks to 5 overlapped layers of zirconium oxide. The aesthetic outcome of the crowns is guaranteed by every single layer, which creates a three-dimensional effect and a natural translucency. *Structures in zirconium monolayer are also available on request.*

**PEEK:** PEEK restorations are perfect for patients with allergy problems, and suitable for bars and screw-retained restorations. As this material is radiopaque, proper fit to implant platform can be verified for implant screw-retained prosthesis.

**PMMA for provisionals:** multilayer technology enables us to reproduce the natural color of dentin and enamel and achieve carefully selected shades. The layering creates a three-dimensional translucent effect. *Structures in PMMA monolayer are also available on request.*



# KEY STRUCTURES

## STL FILES FOR MILLING OR SINTERING

The process starts with STL files created with software suitable for machine setup; the files are checked by our operators before proceeding.

*When sending the file, it is important that you indicate the desired processing technique and material, as well as specify your data and any particular shipment options. All this will help speed up delivery.*

**The product will be produced in 4 working days maximum, plus shipping time.**

You will be able to choose from the following structures in any material of your choice from the available range.

- ▶ CROWNS AND BRIDGES ON NATURAL TEETH
- ▶ CUSTOMIZED ABUTMENTS AND REDUCED ONE-PIECE CROWNS  
OBTAINED FROM PREMILLED
- ▶ CEMENTABLE RESTORATIONS
  - Non-rotating Ti-link
  - Rotating Ti-link
  - MUA and FLAT connection Ti-link
- ▶ ONE-PIECE BARS ON IMPLANTS
- ▶ SCREW-RETAINED ONE-PIECE BRIDGES AND TORONTOS
- ▶ PROTOTYPING SERVICE FOR PROSTHETIC MODELS

# CROWNS AND BRIDGES ON NATURAL TEETH

The structures feature micrometric tolerances and very small thicknesses in the margin area ensuring ease of management and pleasant aesthetics.

Zirconia products undergo a controlled sintering procedure that lasts over 10 hours to avoid any problems associated with surface porosity or distortion.



# CUSTOMIZED ABUTMENTS AND REDUCED ONE-PIECE CROWNS

## PREMILLED

Pillars can be created for all B&B Dental implant platforms. Milling integral pillars and crowns ensures accurate observance of the emergence profile defined by the file.



### EXHAUSTIVE LINE OF COMPONENTS:

- 3P EV and WIDE page 14
- SLIM page 16

### IMPORTANT NOTE

Premilled structures come with prosthetic screws.



# CEMENTABLE RESTORATIONS

## NON-ROTATING TI-LINK

Ti-Link connectors combine the precision fit of a titanium-titanium interface between implant and abutments and the aesthetic advantages offered by the latest prosthetic materials.

An anaerobic cement is recommended for cementing the two parts, after the ceramic coating has been oven cured.

Cementable Ti-Link connectors are available for all B&B Dental implant platforms.



## ROTATING TI-LINK

The cementable connector lends the structure excellent passive fit, especially in the case of milled multi-unit structures.

Please note the connectors must be cemented to the bridge after the ceramic-coating process.



## MUA AND FLAT CONNECTION TI-LINK

Ti-Link connectors can be used on both MUA and FLAT platforms to support prosthetic structures on multiple implants.



### EXHAUSTIVE LINE OF COMPONENTS:

- 3P EV and WIDE page 14  
- SLIM page 16

- MUA page 15  
- FLAT page 17

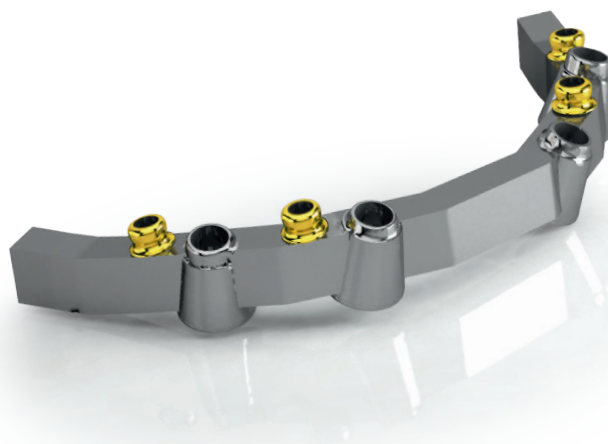
### IMPORTANT NOTE

Where necessary, the structures are equipped with screws and Ti-Link connectors.

## ONE-PIECE BARS ON IMPLANTS

The Milling Center can define screw positions for ball connectors, locators or other special connectors based on your STL file.

It is important to indicate the specifications of the connector to be included in the project on order.



### IMPORTANT NOTE

Where necessary, the structures are equipped with retaining screws. Connectors are not supplied by B&B Dental.

## SCREW-RETAINED ONE-PIECE BRIDGES AND TORONTOS

Producing implant screw-retained bridges meets the requirements of a provisional device, with such materials as biomedical resin, as well as of a definitive device.

For mesostructures, threaded holes to accommodate connectors are available at request.

To check the feasibility of inclined holes in this type of project and obtain a quote, please contact the Milling Center.



### IMPORTANT NOTE

Where necessary, the structures are equipped with retaining screws. Connectors are not supplied by B&B Dental.

# PROTOTYPING SERVICE FOR PROSTHETIC MODELS

We have the capacity to prepare prototype models for prosthesis on implants and abutments on request. You can also request the insertion of removable abutments and/or gums.

The models are made possible thanks to the use of 3D laboratory analogs featuring 2 anti-rotation faces and a bottom locking screw.

These components guarantee high accuracy when repositioning and securing them in their seats on the models and the ability to reuse them.

*The job will be completed in 4 working days maximum, plus shipping time.*



## LINEA COMPLETA COMPONENTI:

- 3P EV e WIDE pagina 14
- SLIM pagina 16
- MUA pagina 15
- FLAT pagina 17

### NOTA IMPORTANTE

Per ottenere le librerie visitare la sezione fresaggio del sito o contattare il centro di fresaggio.

## INCLINED SCREW HOLE

Where the holes for the prosthetic screws need to be in vestibular direction, it is possible to correct the direction of the holes using inclined holes that bring them into more aesthetically appropriate positions.



## LINEA COMPLETA COMPONENTI:

- 3P EV e WIDE pagina 14
- SLIM pagina 16
- MUA pagina 15
- FLAT pagina 17

### NOTA IMPORTANTE

Contattare il centro di fresaggio per verificare la modalità di preparazione del lavoro e la fattibilità.

# FILE PREPARATION

## IMPRESSION TAKING

**Desktop scanner:** if a physical impression is taken, the model equipped with analogs and scan components can be scanned.

*This solution is best avoided when MUA or FLAT configurations are used.*

**Intraoral scanner:** the impression is taken directly in the patient's mouth with the help of an intraoral scanner and the scan component is inserted into the implants.

*This approach is not recommended for full-arch restorations.*

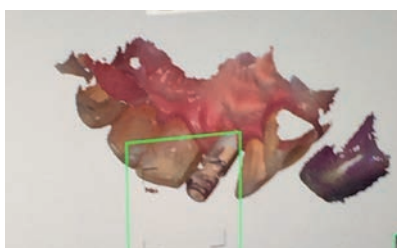


## CLINICAL CASE

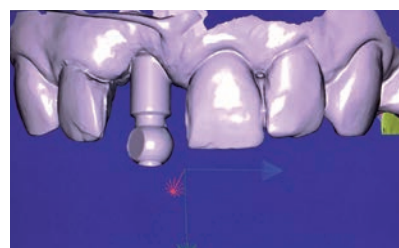
Outlined below are the process steps of a case that was treated in a fully digital workflow. It is essential to use the appropriate scan abutment for the specific type of implant and structure to be requested from our milling center.



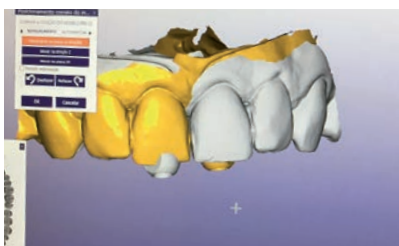
Insertion of scan component on implant.



Impression taking with intraoral scanner.



Matching on CAD software.



Prosthesis modeling, file is handed over to milling center.



Abutment insertion.



Final aesthetic result.

# B&B DENTAL MILLING SERVICE

Because the result of surgery is predictable when planned using software, it is possible to prepare the prosthetic structure in advance and fix it after the surgery. This can be done at our Milling Center or, at the doctor's discretion, in any laboratory with the necessary equipment. Prosthetic libraries are available on our website [www.bebdental.it](http://www.bebdental.it). For more details and technical assistance, please contact the guided surgery department.

## IMPORTANT INFORMATION

The finished product is handed over to the courier within the working days indicated for each product. This does not take into account the courier's shipping time: please consult the carrier's website for more information on shipping to your area.

Work on the product starts on the day the file is received, as long as the file is delivered before 12:00 p.m.; for files delivered after this time, one working day must be added.

## WARRANTY AND RETURN POLICY

### CAD / CAM products

In the event of proven defects in workmanship, B&B Dental reserves the right to replace the goods under warranty with items free of defects - the defective material must be returned under sterile conditions along with invoice and order documents. For warranty replacement of semi-finished products manufactured by us, the following information must be specified: file code and date file was submitted for processing.

Rework: it is mandatory to return the defective material. In the event of defects in manufacture or errors caused by B&B Dental, the guarantee covers 100% of the defective semi-finished product.





# COMPONENTS FOR 3P, EV, WIDE LINES



INTRAORAL scanner



DESKTOP scanner



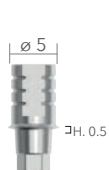
**SCANBODY SHORT**  
**INN-SCAN-3-NR-S**  
This code includes screw



**SCANBODY LONG**  
**INN-SCAN-3-NR**  
This code includes screw

## NON-ROTATING BASE

This code includes screw INN-6050



INN-00652/05



INN-00652



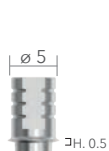
INN-00652/2



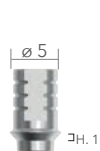
INN-00652/3

## ROTATING BASE

This code includes screw INN-6050



INN-00651/0.5



INN-00651



INN-00651/2



INN-00651/3

## PREMILLED MEDENTIKA

This code includes screw INN-6050  
also available upon request for NT-trading and Des holders



**INN-CF5123 Titanium**  
**INN-CB512 Chromium-Co-**  
**balt**



**INN-CF5125 Titanium**  
**INN-CB5125 Chromi-**  
**um-Cobalt**



**STANDARD 3D ANALOG**  
**3D-00585**  
This code includes screw 3D-02

# COMPONENTS FOR MUA PLATFORM



INTRAORAL scanner



DESKTOP scanner



**MUA SCANNER  
NON-ROTATING  
SCAN-MUA**

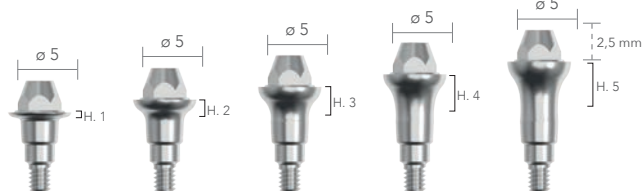
This code includes screw  
INN-6051



**MUA SCANNER  
NON-ROTATING  
SCAN-MUA-S**

This code includes screw  
INN-6051

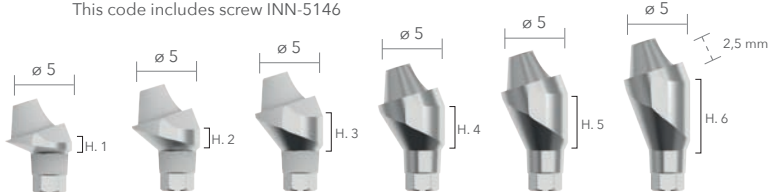
## STRAIGHT



INN-4750/1 INN-4750/2 INN-4750/3 INN-4750/4 INN-4750/5

This code includes screw INN-5146

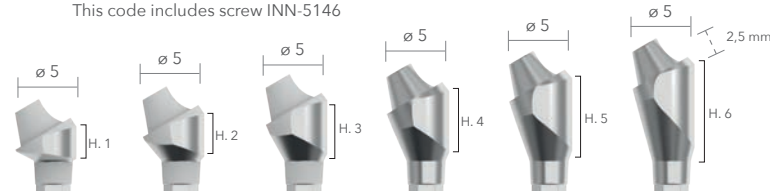
## ANGLED - 17°



INN-1760/1 INN-1750/2 INN-1750/3 INN-1750/4 INN-1750/5 INN-1750/6

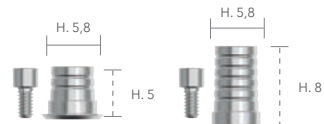
This code includes screw INN-5146

## ANGLED - 30°



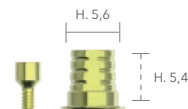
INN-3050/1 INN-3050/2 INN-3050/3 INN-3050/4 INN-3050/5 INN-3050/6

This code includes screw INN-6051



**TI LINK FOR MUA  
3D-5144 3D-5145**

This code includes screw 3D-14



**COMPONENTS FOR INCLINED HOLES  
3D-5143**

**MUA ANALOGUE  
3D-00586**

This code includes screw 3D-02



# COMPONENTS FOR SLIM LINE



INTRAORAL scanner



DESKTOP scanner



**SCANBODY  
SL-SCAN-2-NR**

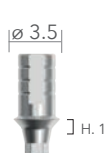
This code includes screw 00358/V

## BASE NON ROTANTE

Il codice include la vite 00358/V



00652



00652/1



00652/2



00652/3

## BASE ROTANTE

Il codice include la vite 00358/V



00652/R



00652/1R



00652/2R



00652/3R

## PREMILLED MEDENTIKA

This code includes screw 00358/V  
also available upon request for NT-trading and Des holders



SL-CF2122 Titanium  
SL-CB2122 Chromium-Co-  
balt



SL-CF2124 Titanium  
SL-CB2124 Chromium-Co-  
balt



**SLIM 3D ANALOG  
3D-0097AN/1**

This code includes screw 3D-02

# COMPONENTS FOR FLAT PLATFORM



INTRAORAL scanner



DESKTOP scanner



**SCAN FLAT**  
**SCAN-FLAT**  
This code includes screw  
INN-00690

3P, EV, WIDE LINES



**FLAT**  
INN-00669



**FLAT**  
INN-00669/3



**FLAT**  
INN-00669/4

SLIM LINE



**FLAT SLIM**  
SL-00669



**FLAT SLIM**  
SL-00669/3



**FLAT SLIM**  
SL-00669/4



**FLAT BASE**  
**3D-00687/2**  
This code includes screw INN-00690

**FLAT BASE FOR INCLINED HOLES**  
**3D-00687/1**

This code includes screw INN-00690

## NOTA IMPORTANTE



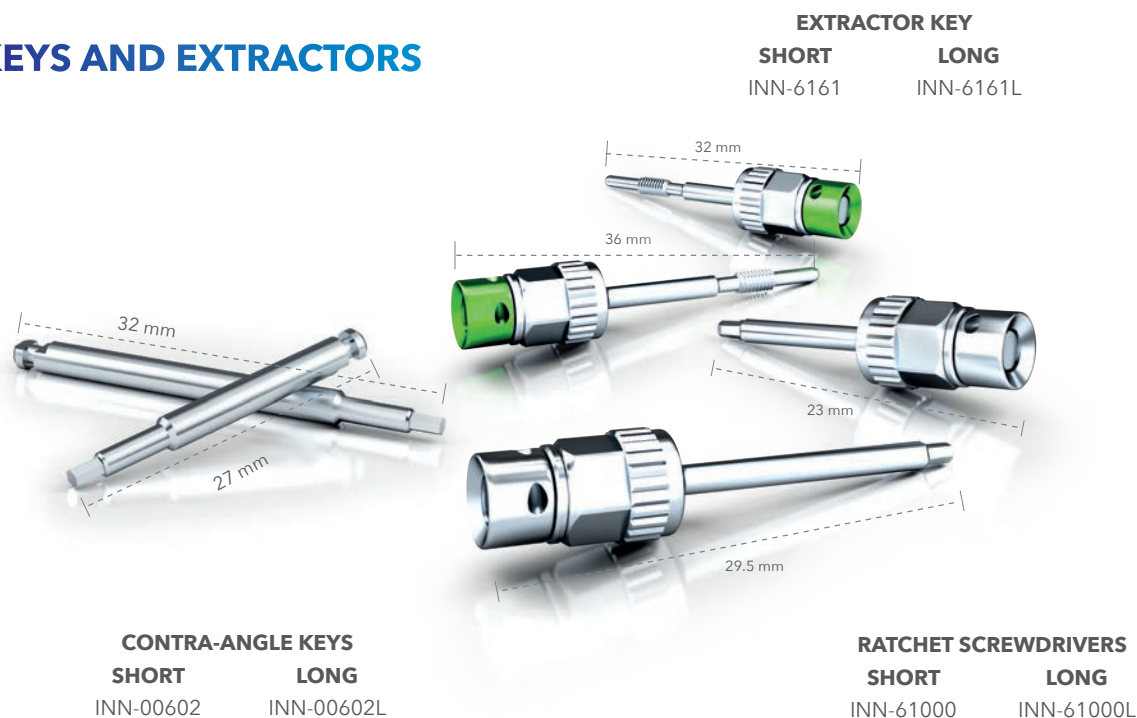
La base cod. 3D-00687/1 può essere utilizzata per fori inclinati acquistando separatamente la vite cod. 3D-16



**FLAT ANALOG**  
**3D-00736**  
This code includes screw 3D-02

# KEYS AND ACCESSORIES

## KEYS AND EXTRACTORS



Tightening recommendations



**MAXIMUM 25 Ncm**

## KEYS FOR INCLINED HOLES





# GUIDE YOUR SURGERIES TO PERFECTION



A software that can be downloaded from B&B Dental website and that is clear, user-friendly, suitable for any device that allows you to view CBCTs, convert DICOM files to STL, plan your cases, leaving you the freedom to work independently but facilitating sharing information with our technicians before finalising.

The guided surgery service is built around your skills and needs and includes a set of tools and technical support tailored to you, that improve the way you work and help you implement the digital workflow in your practice.



Once the implant project for implant placement has been prepared, the prosthetic structure can be prepared for immediate or conventional loading.

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## CONTACTS

### **REGISTERED OFFICE AND OPERATIONAL HEADQUARTERS 1:**

Via S. Benedetto, 1837  
40018 S. Pietro in Casale (BO) Italy

### **OPERATIONAL HEADQUARTERS 2:**

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40050 Argelato (BO) Italy

**Tel.** +39 (0) 51.81.13.75

**Fax** +39 (0) 51.666.94.00

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Certified quality system  
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