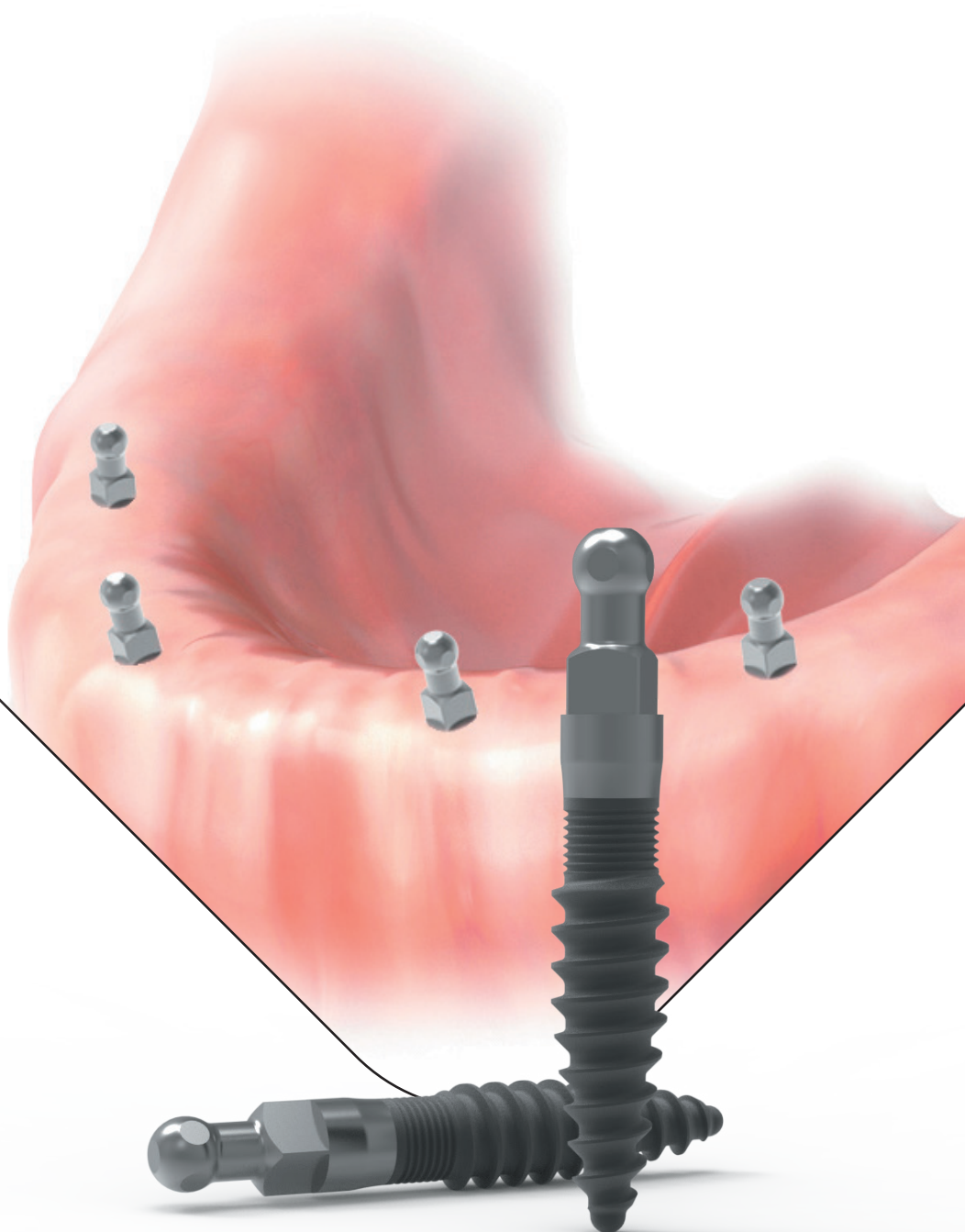


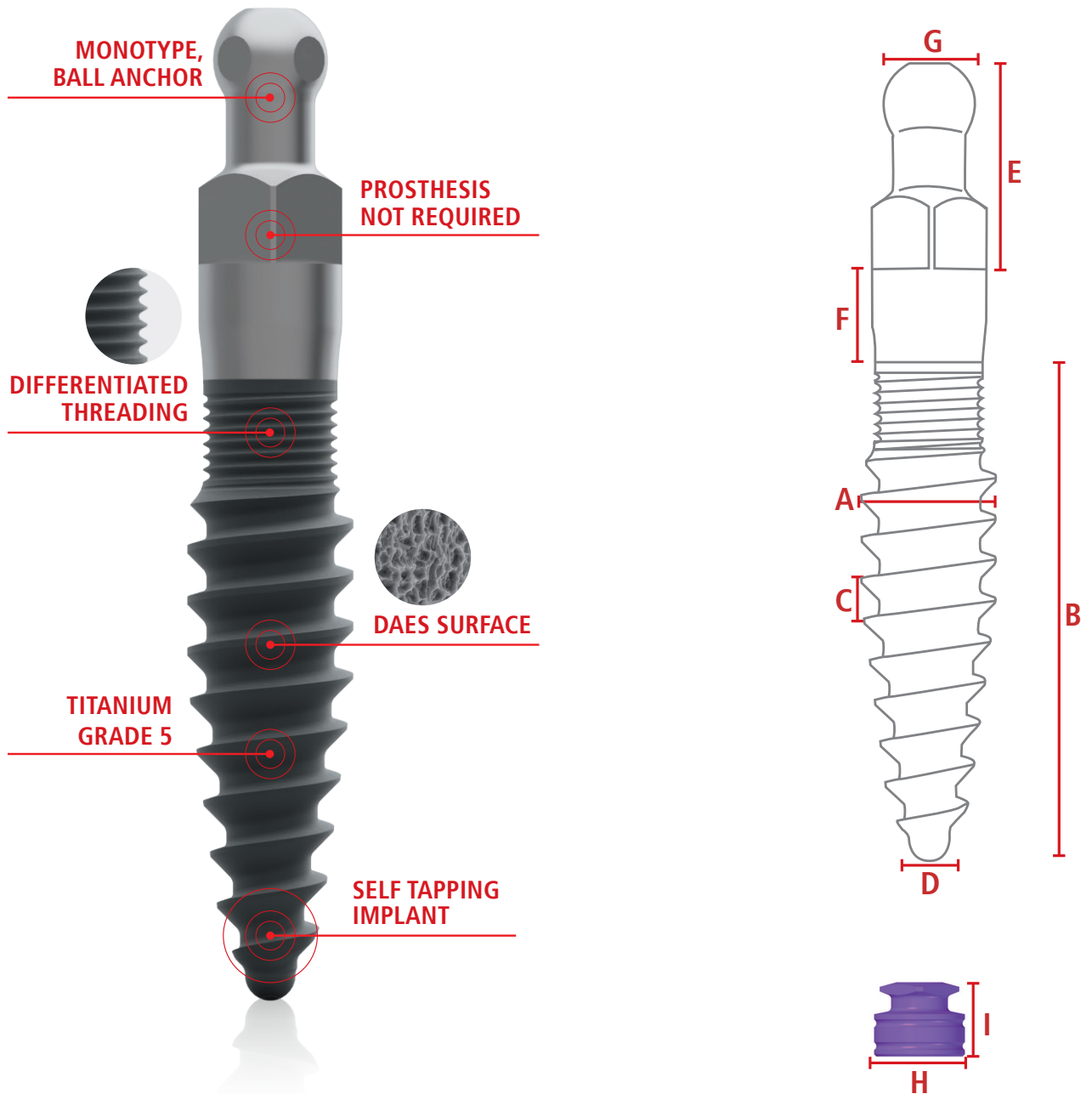
# IMPLANT MINI



SPECIAL IMPLANT  
FOR THE STABILIZATION  
OF REMOVABLE DENTURES

# MINI

SPECIAL IMPLANT FOR THE STABILIZATION OF REMOVABLE DENTURES



## IMPLANT PORTFOLIO MINI

IMPLANT NOMINAL LENGTH IN MM					APEX ∅ / mm D	THREAD PITCH mm C	INTRA- MUCOSAL HEIGHT E	SMOOTH NECK F	O-BALL DIAMETER G	CAP DIAMETER H	CAP HEIGHT I	
∅ mm A	10	11,5	13	15								
1,9	IMI19100A	IMI19115A	IMI19130A	IMI19150A	0,6	0,6	4	2	1,8	4	3,3	
2,5	IMI25100A	IMI25115A	IMI25130A	IMI25150A	0,8	0,8						
ETCHED PART LENGTH B												
					8	9,5	11	13				

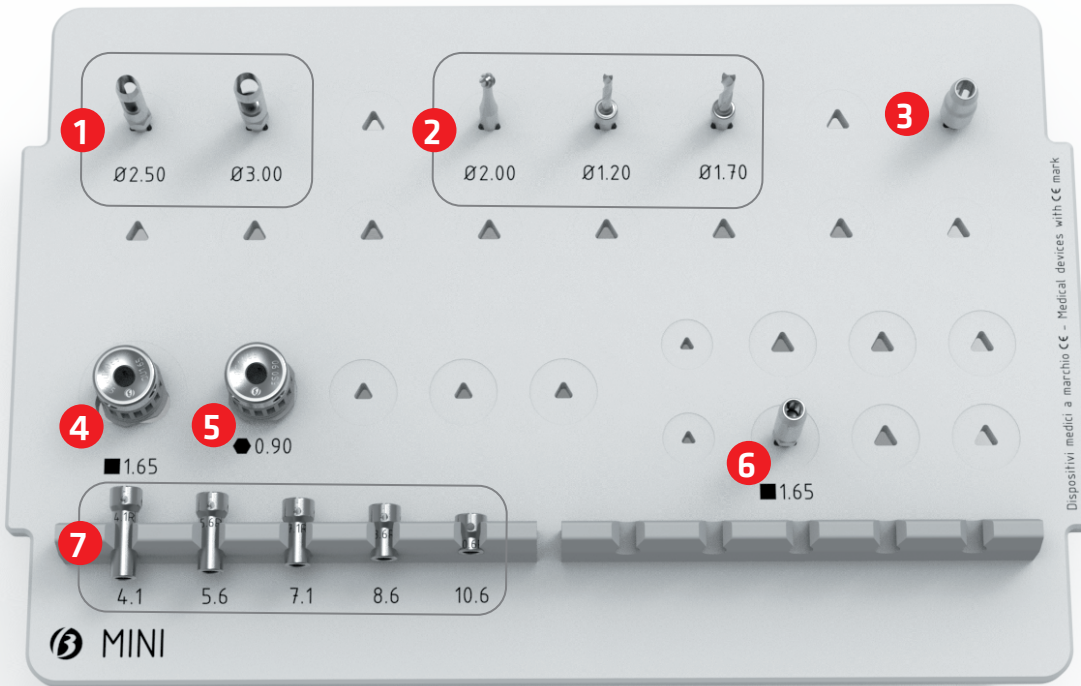
All measurements are in millimeters.

The implant is supplied with a titanium cap and its retentive "O-ring".



# SURGICAL KIT MINI IMPLANT

REF 610NA002



Dispositivi medici a marchio CE - Medical devices with CE mark

## 1 TISSUE PUNCH HR



490HR250 | Ø2.5mm INT



490HR300 | Ø3mm INT

## 2 ROUND DRILL HS



401HS200 | Ø2mm L30mm

## BLADE DRILLS



FMI12N | Ø1.2mm Mini



FMI17N | Ø1.7mm Mini

## 3 DRILLS EXTENSION



520HS004 | L28 mm

## 4 ADAPTER CONNECTION



530JD035 | SQ1.65-JD L10mm

## 5 SCREWDRIVER JD



530JD012 | HEX 0.90 L15 mm

## 6 IMPLANT DRIVER



NMIM | Implant Driver  
Mini Handpiece

## 7 DRILL STOP



FSA4 | L4.1mm Mini



FSA5 | L5.6mm Mini



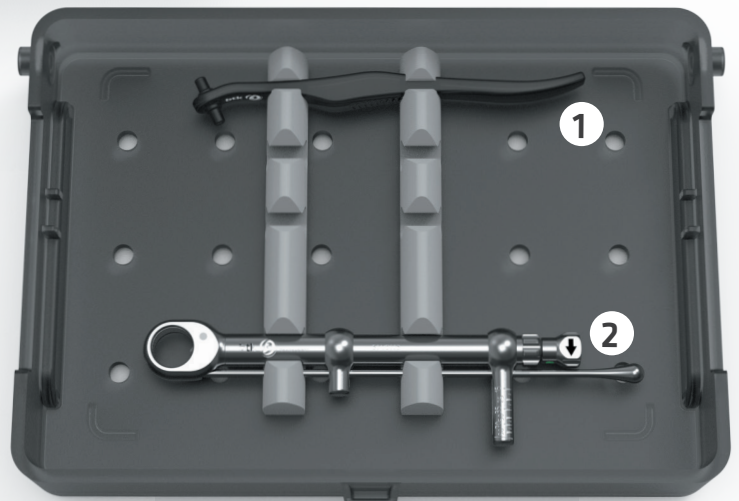
FSA7 | L7.1mm Mini



FSA8 | L8.6mm Mini



FSA10 | L10.6mm Mini



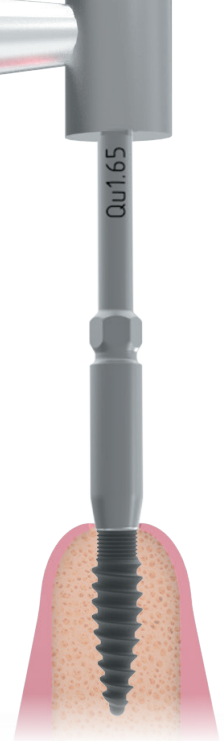
**1**  
**GUIDE SHAFT**  
502MA002 | Ø 2.5 mm

**2**  
**TORQUE WRENCH JD, REVERSIBLE**  
501JD003 | 90 Ncm

# SURGICAL PROCEDURE

DRILLS					DRILLS STOP					
IMPLANT	Round Drill 401HS200	Blade Drills FMI12N	Blade Drills FMI17N		IMPLANT	D1 BONE	D2 BONE	D3 BONE	D4 BONE	
1,9	10mm				1,9	10mm	FSA7	FSA5	NO STOP	NOT RECOMMENDED
	11,5mm	●	●	/		11,5mm	FSA8	FSA7	FSA4	/
	13mm					13mm	FSA10	FSA8	FSA5	/
	15mm					15mm	NO STOP	FSA10	FSA7	/
2,5	10mm				2,5	10mm	NOT RECOMMENDED	FSA7	FSA5	FSA4
	11,5mm	●	●	○		11,5mm	/	FSA8	FSA7	FSA5
	13mm					13mm	/	FSA10	FSA8	FSA7
	15mm					15mm	/	NO STOP	FSA10	FSA7

● Always ○ Only in presence of D2 bone

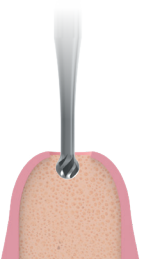


## 1. MUCOTOME OR FLAP



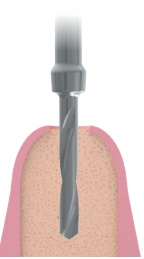
Use the mucotome Ø 2,5 or Ø 3, which allows the passage of the insertion drivers, up to the reaching of the bone crest. Recommended speed: 40rpm. Differently, in order to have a better visibility on the bone crest, prepare the gingival flap through incision and scraping.

## 2. ROUND DRILL



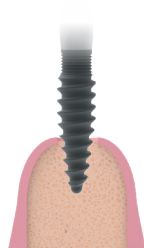
The use of the round drill is recommended to create an invitation on the cortical bone, useful for the positioning of the following drill. Recommended speed: 800-1000 rpm.

## 3. FINAL DRILLS



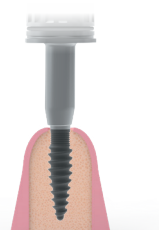
The MINI implant is usually placed in an "under-prepared" surgical site proportionally to the bone density. Drilling must be carried out with sharp drills, intermittently at 800 - 1000 rpm, always with abundant external irrigation with pre-cooled sterile saline solution and avoiding excessive pressures. Recommended speed: 800 - 1000 rpm.

## 4. IMPLANT INSERTION



Manually take the MINI implant from its phial and screw it in the implant site using the pre-assembled plastic device. The mounting device can be removed only after the reaching of an adequate stability in the implant site.

## 5. IMPLANT MANUAL INSERTION



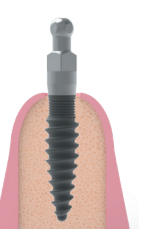
Complete the fastening slowly using the proper connection applied to the handpiece, proceed slowly (max. 15rpm) fixing the maximum torque limit at 35 Ncm. In the event that the limit occurs, DO NOT FORCE in order not to break the MINI implant; it is recommended to remove the implant from the site and repeat the drilling operation increasing the depth. If the implant can't be inserted either when the depth of the drilling matches the length B, then it is necessary to repeat the drilling using a drill with a lightly larger diameter. (Ø1,7mm drill).

## 6. MINI IMPLANT INSERTION WITH HANDPIECE



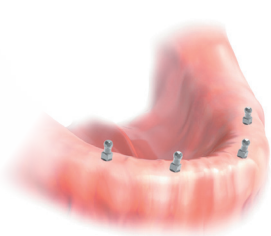
Complete the fastening using the proper connection connected to the handpiece, proceed slowly (max 15 rpm) fixing the maximum torque limit at 35 Ncm. If reached this limit it's preferable NOT TO FORCE in order not to risk to break the MINI implant; it's better to remove the implant from the site and repeat the drilling operation increasing the depth. If it's not possible to insert the MINI implant even when the depth of drilling corresponds to the length B, it's necessary to repeat the operation of drilling with a drill of larger diameter (drill Ø 1,7).

## 7. LEVEL AND POSITIONING



In order to reach a proper positioning level, all threads of the MINI implant should be completely overwhelmed in the bone crest, while the square at the base of the sphere should emerge, at least partially, from the gingival profile in order to avoid a possible compression of the soft tissues due to retentive caps.

## 8. FINAL POSITIONING PHASE



Place all implants following the previously prepared planning. If a gingival flap has been executed, then close it through suitable suture.

## MINI PROSTHETIC

### RETENTIVE HOUSING



COR1770

Cap with OR 70-80 Shore to be placed inside the denture.

### O-RING



690NA040

To be used in case of wear of the OR which have been inserted inside the retentive housing. OR density: 70-80 Shore. Kit of 6 pieces.

### STRAIGHT ABUTMENT MINI



MMI17H1

Cementable straight abutment to be used when the implant works as a section-breaker support on a bar.

### ANGLED ABUTMENT MINI



MMI1715

Cementable 15° angled abutment to be used when the implant works as a section-breaker support on a bar.

### CASTABLE PLASTIC ABUTMENT TRANSFER



CMI17

To be used as a plastic abutment in order to realize an abutment through casting, or as a transfer for the impression taking. PMMA

### IMPLANT REPLICA MINI



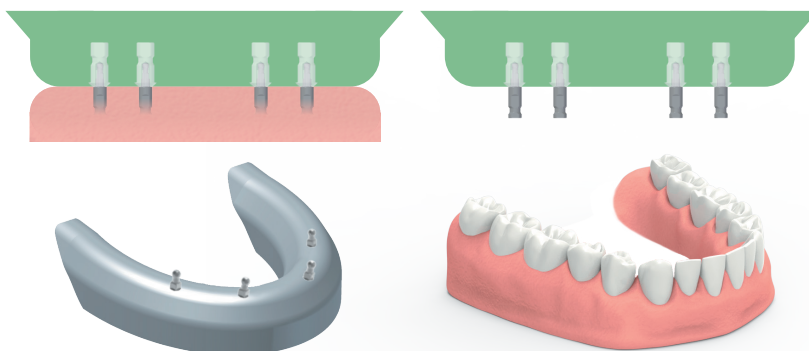
AMI17

To be inserted in the stone model as implant replica.

## IMPRESSION TAKING AND DENTURE DEVELOPMENT

Insert the castable-transfer on the MINI implant ensuring the perfect coupling between the parts. Take the impression with the appropriate material and the individual impression tray. Wait up to the sufficient hardening of the material and extract the impression from the oral cavity with the castable-transfer, ensuring the perfect connection of the parts. Develop the stone model.

Realize the removable denture including the retentive caps positioned on the spheres of implant replicas, considering a wide tissue support. Place the removable denture in the patient mouth, after all appropriate checkings. Particular attention has to be paid to the adequate tissue support also in the subsequent periodical controls, potentially relining the denture.

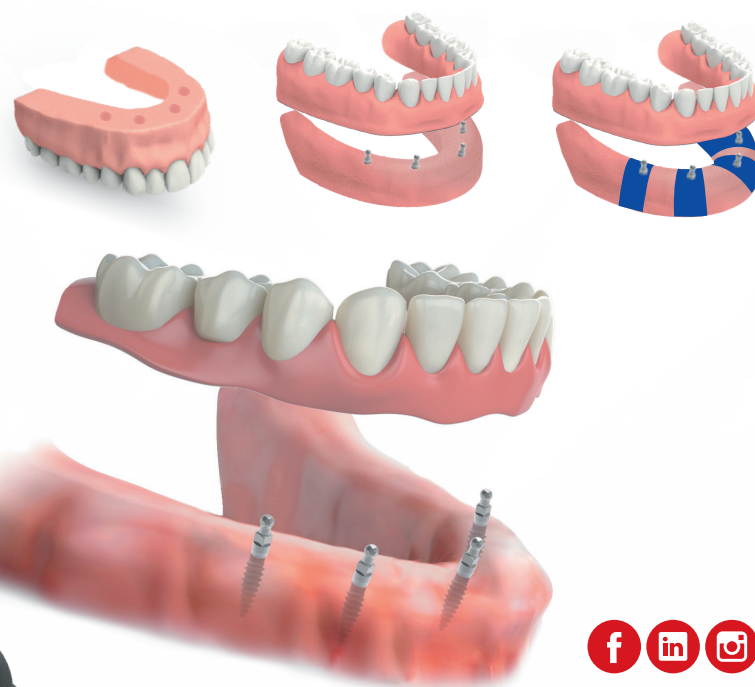


## INSERTION OF RETENTIVE CAPS ON THE EXISTING DENTURE

In the existing denture, realize some cavities in which retentive caps will be inserted, in correspondence of MINI implants spheres.

Insert the retentive caps on the MINI implants spheres and place the denture in the patient's mouth in order to verify the correct positioning and support, making the necessary adjustments. Once removed denture and caps, protect the tissue with dams to avoid a contact of the resin with tissues in the next phase. Reposition retentive caps. Fill cavities previously prepared in the denture with selfpolymerizing resin and insert it in the patient's mouth, then bite without excessive compression.

At the end of the polymerization phase, remove denture and dams. Check and finish potential exceeds of resin off. Particular attention has to be paid to the adequate tissue support also in the subsequent controls, possibly relining the denture. Then position the denture in the patient's mouth.



### **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.**



CE marked product, in accordance with Directive 93/42/EEC and subsequent modifications and additions.

### **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.