

IMPRESSION-TAKING, BITE REGISTRATION, AND TEMPORARY RESTORATION ON CAMLOG[®] IMPLANTS



- Open and closed impression-taking
- Impression-taking for option platform switching
- Bite registration
- Temporary abutments
- Temporary abutments for option platform switching



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GENERAL SYSTEM INFORMATION ABOUT THE CAMLOG® IMPLANT SYSTEM

THE CAMLOG® IMPLANT SYSTEM

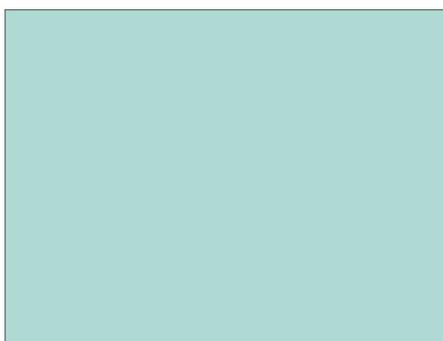
The CAMLOG® Implant System is based on many years of clinical and laboratory experience and is a user-friendly, consistently prosthesis-oriented implant system.

All CAMLOG® products are continually updated to the latest technological standards. The CAMLOG® Implant System is being continuously developed and adapted by the CAMLOG research and development team in collaboration with clinics, universities and dental technicians and therefore stays abreast of the latest developments in technology.

The CAMLOG® Implant System is very well documented scientifically. Numerous studies addressing a number of parameters, e.g., implant surface, time of implantation and / or implant loading, primary stability, connection design or type of suprastructure, support this. The long-term results for the CAMLOG® Implant System are convincing.

ATTENTION!

The descriptions that follow are not adequate to permit immediate use of the CAMLOG® Implant System. Instruction by an experienced operator in the management of the CAMLOG® Implant System is strongly recommended. CAMLOG® dental implants and abutments should be used only by dentists, physicians, surgeons and dental technicians trained in the system. Appropriate courses and training sessions are regularly offered by CAMLOG. Methodological errors in treatment can result in loss of the implant and significant loss of peri-implant bone.



IMPRESSION-TAKING

IMPRESSION-TAKING OF CAMLOG® IMPLANTS

INTRODUCTION

The CAMLOG® impression-taking system provides a highly precise, rotation-resistant transfer system for both closed and open tray methods. All system components are color-coded by implant diameter. It must be made sure that only implants and impression-taking components of the same diameter (by color-coding) are mixed and matched. No components of different diameters should be attached to one another. The system components must not be modified.

IMPRESSION-TAKING METHODS

The open or closed tray method may be selected for impression-taking. If heavily divergent implant axes are present, or combination with a functional impression-taking is desired, the open impression-taking method should be used. For the use of the Logfit® prosthetic system, the ball abutments and Locator® abutments, or a prefabricated bar, special matching impression posts are available.

IMPRESSION-TAKING MATERIAL

Silicone or polyether materials can be used as impression-taking materials for the open and closed impression-taking methods.

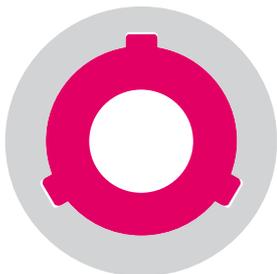
IMPRESSION-TAKING COMPONENTS WITH K ARTICLE NUMBERS (K-SERIES) – ROUND BECOMES SQUARE

The new SCREW-LINE Implants with K article numbers (K-Series) include an inner groove configuration making the platform switching option available to the user. The geometry of the three grooves was changed from round to square and shortened. Because of this change, all impression posts, open and closed trays, and impression posts PS also include square cams and K article numbers (K-Series).

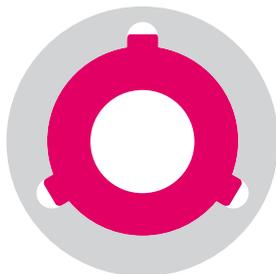
All impression posts with K article numbers are compatible with all CAMLOG® Implant lines.



WHAT WORKS ...



SCREW-LINE Implants of the K-Series with impression posts with K article numbers



ROOT-LINE/SCREW-CYLINDER-LINE/ CYLINDER-LINE Implants with impression posts with K article numbers (backward compatibility)

WHAT DOES NOT WORK ...



SCREW-LINE Implants of the K-Series with impression posts with J article numbers

Due to the shortened grooves, the new SCREW-LINE Implants with K article numbers can no longer be provided with conventional abutments (long cams) with J article numbers.

EXISTING IMPRESSION POSTS WITH K ARTICLE NUMBERS (K-SERIES) FOR ALL IMPLANT LINES

IMPRESSION POST, OPEN TRAY

ART. NO.	K2121.3300	K2121.3800	K2121.4300	K2121.5000	K2121.6000
Impression post, open tray, incl. fixing screw					
FOR IMPLANT Ø	3.3 MM	3.8 MM	4.3 MM	5.0 MM	6.0 MM

IMPRESSION POST, CLOSED TRAY

ART. NO.	K2110.3300	K2110.3800	K2110.4300	K2110.5000	K2110.6000
Impression post, closed tray, incl. impression cap, bite registration cap and fixing screw					
FOR IMPLANT Ø	3.3 MM	3.8 MM	4.3 MM	5.0 MM	6.0 MM

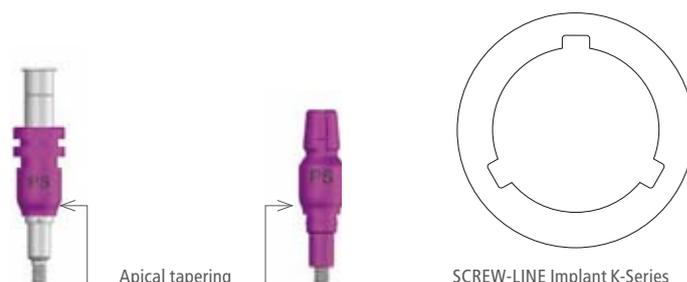
SPARE IMPRESSION CAP

ART. NO.	J2111.3300	J2111.3800	J2111.4300	J2111.5000	J2111.6000
Impression cap for impression post, closed tray (5 units)					
FOR IMPLANT Ø	3.3 MM	3.8 MM	4.3 MM	5.0 MM	6.0 MM

Note: Impression caps are still available with J article numbers.

IMPRESSION-TAKING FOR OPTION PLATFORM SWITCHING WITH NEW SCREW-LINE IMPLANTS WITH K ARTICLE NUMBERS (K-SERIES)

The platform switching option is only possible with the new SCREW-LINE Implants with K article numbers (K-Series). To make appropriate soft-tissue management possible for platform switching, healing caps PS are used for healing. This requires the subsequent use of impression posts PS for platform switching. Like the healing caps PS, these are also tapered in the apical area making it possible to adapt soft tissue over the implant shoulder.



IMPORTANT NOTE

- All prosthetic components PS for platform switching should only be used in conjunction with SCREW-LINE Implants with K article numbers (K-Series)!
- To avoid soft-tissue injury while taking impressions, only impression posts PS for platform switching should be used in conjunction with healing caps PS!

IMPRESSION POSTS PS FOR PLATFORM SWITCHING FOR SCREW-LINE IMPLANTS WITH K ARTICLE NUMBER

IMPRESSION POST PS, OPEN TRAY

ART. NO.	K2119.3800	K2119.4300	K2119.5000	K2119.6000
Impression post PS, open tray, incl. fixing screw				
FOR IMPLANT Ø	3.8 MM	4.3 MM	5.0 MM	6.0 MM

IMPRESSION POST PS, CLOSED TRAY

ART. NO.	K2109.3800	K2109.4300	K2109.5000	K2109.6000
Impression post PS, closed tray, incl. impression cap, bite registration cap and fixing screw				
FOR IMPLANT Ø	3.8 MM	4.3 MM	5.0 MM	6.0 MM

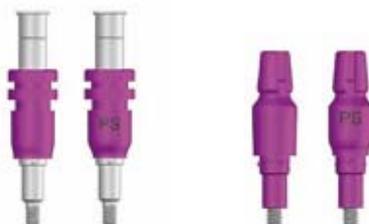
SPARE IMPRESSION CAP

ART. NO.	J2111.3800	J2111.4300	J2111.5000	J2111.6000
Impression cap for impression post, closed tray (5 units)				
FOR IMPLANT Ø	3.8 MM	4.3 MM	5.0 MM	6.0 MM

Note: Impression caps are still available with J article numbers and compatible with impression posts PS, closed tray.

NOTE

Impression-taking of CAMLOG® Implants with the existing impression posts, open and closed tray, is identical to the impression posts PS, open and closed tray, for platform switching.



Important instruments/lab analogs:



Screwdrivers, hex, extra short, short, long



Lab analogs, Ø 3.3/3.8/4.3/5.0/6.0 mm

COLOR-CODING OF THE SURGICAL AND PROSTHETICAL CAMLOG® PRODUCTS

	Color	Diameter
●	grey	3.3 mm
●	yellow	3.8 mm
●	red	4.3 mm
●	blue	5.0 mm
●	green	6.0 mm

IMPORTANT NOTE

All components for impression-taking on CAMLOG® Implants are for single use only and must not be modified.

OPEN IMPRESSION-TAKING METHOD

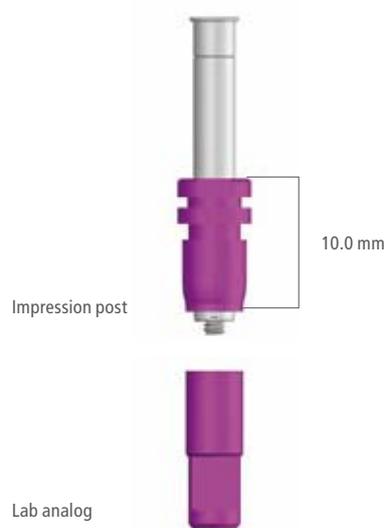
The impression posts, open tray, are color-coded, equipped with an internal fixing screw, and can be used with the platform switching method.

For the open impression-taking method, an individually fabricated impression tray to be perforated on the extension of the implant axis to allow release of the fixing screw is required.



Impression posts, open tray

Impression posts PS, open tray, for platform switching



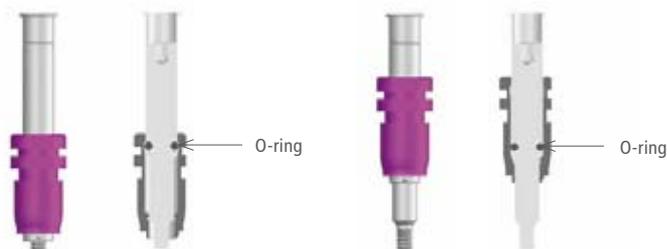
Impression post

Lab analog

The fixing screw is secured in the impression post with an O-ring and must be hand-tightened using the screwdriver only, both in the implant and in the lab analog.

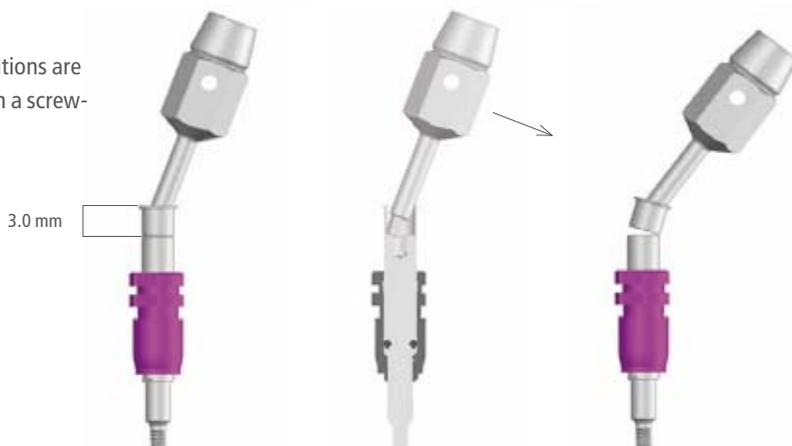
NOTE

Before removing the impression, loosen the screw and pull it back until the stop (O-ring) is felt. Otherwise, removal of the impression will be impossible due to axial divergence of the implants, or the impression itself will be deformed through excessive compression.



The fixing screw is equipped with a break-off point. If space limitations are encountered, it can be shortened by 3.0 mm by breaking it off with a screwdriver, hex.

Caution! Shorten extra-orally, only.

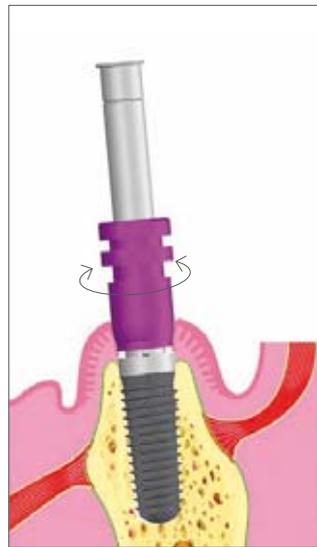
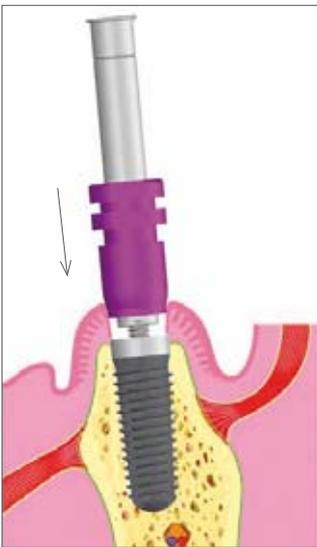


IMPRESSION POST INSERTION

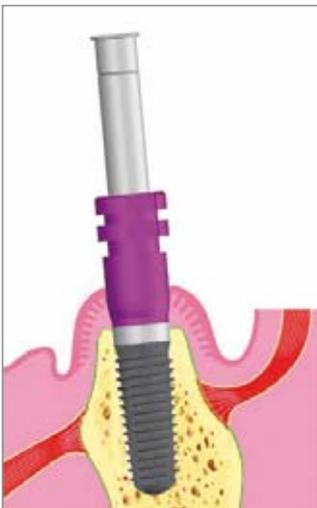
Remove the healing cap or temporary abutment. To ensure orientation in the direction of the implant axis, insert the screw fully in the apical direction before inserting the impression post.

Place the impression post for open impression-taking on the implant and tighten the fixing screw slightly. The impression post is rotationally symmetrical; no special orientation is required. Carefully rotate the impression post onto the implant until the cams engage with the implant grooves.

Caution! If the cams have not engaged, the height difference is about 0.4 mm.

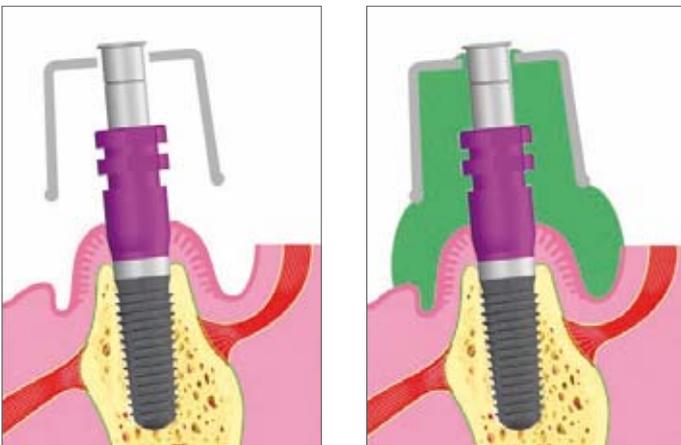


The fixing screw must be hand-tightened with the screwdriver. For tight and thick gingiva in particular, we recommend a radiographic check of the correct seating of the impression post prior to taking the impression.



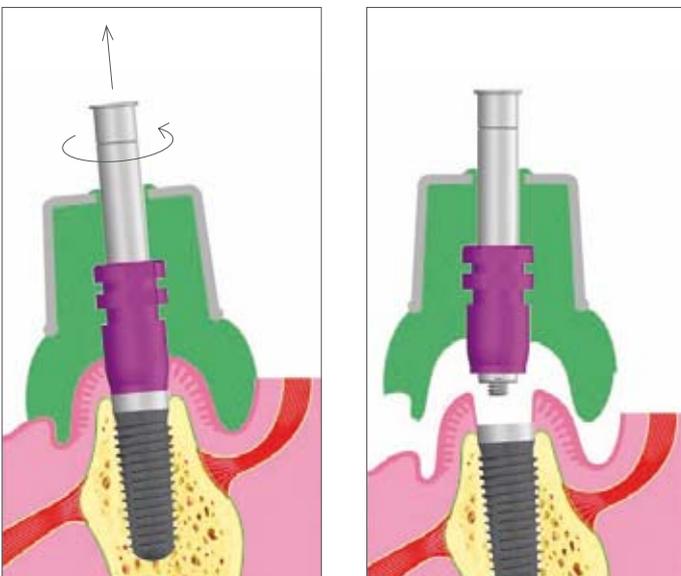
IMPRESSION-TAKING

Before taking the impression, check the tray for a precision fit. The fixing screws protruding from the perforations must not touch the tray. Then use a silicone or polyether impression-taking material to take the impression.



To remove the impression, loosen the fixing screw, pull it back and then lift off the impression.

Tip: To simplify the procedure, we recommend also sending the matching lab analog to the laboratory.



NOTE

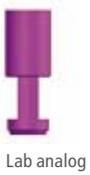
Impression-taking of CAMLOG® Implants with the existing impression posts, open and closed tray, is identical to the impression posts PS, open and closed tray, for platform switching.

CLOSED IMPRESSION-TAKING METHOD

The impression posts, closed tray, are color-coded, equipped with an internal fixing screw, and can be used with the platform switching method. They are supplied with an impression cap and a bite registration cap.

A prefabricated impression tray is used for the closed impression-taking method.

A screwdriver, hex, extra short, short, or long is required. The fixing screw must be hand-tightened both in the implant and in the lab analog.



IMPRESSION POST INSERTION

Following removal of the healing cap or the temporary abutment, insert the impression post (with its attached fixing screw) into the implant. Rotate until engagement of the cams with the grooves is felt.

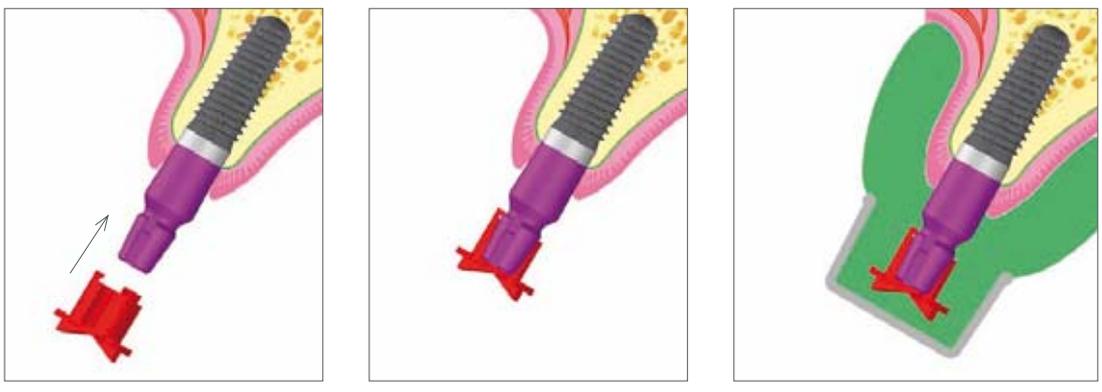


NOTE: THE FIXING SCREW PROTRUDES ABOUT 2 MM FROM THE POST AFTER THE IMPRESSION POST ENGAGES AND BEFORE TIGHTENING.

The fixing screw must be hand-tightened with the screwdriver, hex. For a tight and thick gingiva in particular, we recommend a radiographic check of the correct seating of the impression post prior to taking the impression.

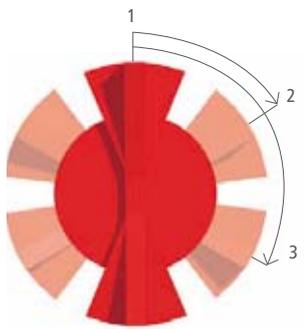
IMPRESSION-TAKING

The color-coded impression cap is now installed, using the guide grooves on the impression post, until a detectable pressure point is reached and the impression cap is definitely fastened. Three guide grooves on the impression post (placed at 120° intervals) facilitate contact-free placement relative to adjacent impression caps or teeth. The impression cap extensions must not be removed.

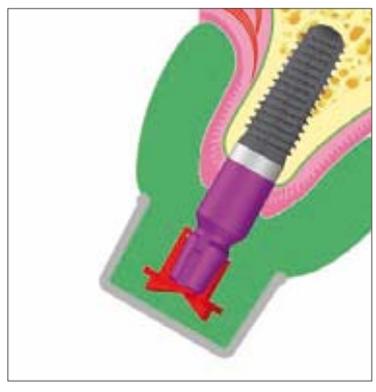
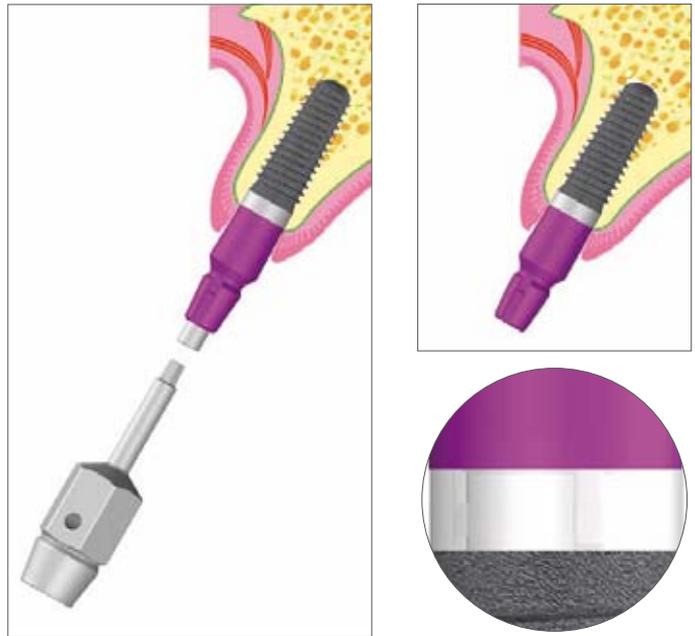


Correct seating of the impression caps should be checked again before the impression is taken.

The impression caps should remain in the impression after the impression tray is lifted. If this is not the case, repeat the impression-taking.



Three guide grooves make three positioning options possible for the impression cap



Tip: To simplify the procedure, we recommend also sending the matching lab analog to the laboratory.

To prevent loss of the fixing screw, the impression post must be shipped attached to the lab analog.

NOTE
Impression-taking of CAMLOG® Implants with the existing impression posts, open and closed tray, is identical to the impression posts PS, open and closed tray, for platform switching.

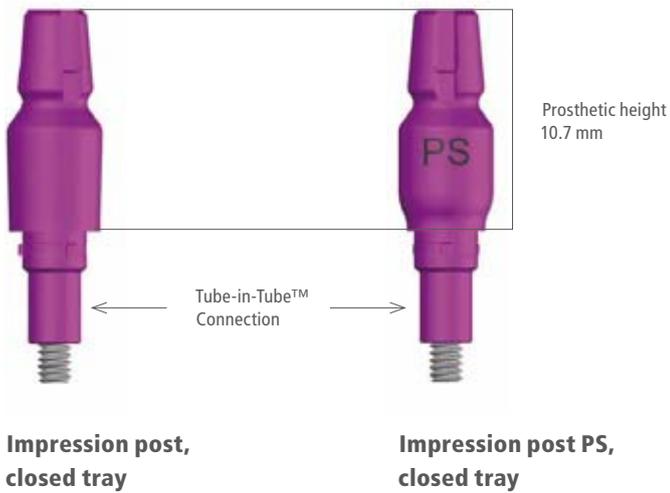
BITE REGISTRATION

BITE REGISTRATION ON CAMLOG® IMPLANTS

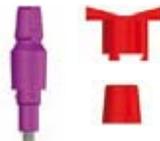
INTRODUCTION

Accurate implant-supported measuring of the arch relations and their transfer to the cast situation can be carried out with the impression posts, closed tray, incl. bite registration cap.

Impression posts PS, closed tray, incl. bite registration cap, are available for the platform switching option.



IMPRESSION POST, CLOSED TRAY

ART. NO.	K2110.3300	K2110.3800	K2110.4300	K2110.5000	K2110.6000
Impression post, closed tray, incl. impression cap, bite registration cap and fixing screw					
FOR IMPLANT Ø	3.3 MM	3.8 MM	4.3 MM	5.0 MM	6.0 MM

IMPRESSION POST PS, CLOSED TRAY, FOR PLATFORM SWITCHING

ART. NO.	K2109.3800	K2109.4300	K2109.5000	K2109.6000
Impression post PS, closed tray, incl. impression cap, bite registration cap and fixing screw				
FOR IMPLANT Ø	3.8 MM	4.3 MM	5.0 MM	6.0 MM

SPARE BITE REGISTRATION CAP

ART. NO.	J2112.3300	J2112.3800	J2112.4300	J2112.5000	J2112.6000
Bite registration cap (5 units)					
FOR IMPLANT Ø	3.3 MM	3.8 MM	4.3 MM	5.0 MM	6.0 MM

Note: Bite registration caps are still available with J article numbers and compatible with impression posts PS, closed tray.

NOTE

Implant-supported bite registration on CAMLOG® implants with the existing impression posts, closed tray, is identical to the impression posts PS, closed tray, for platform switching.



Important instruments / lab analogs:



Screwdrivers, hex, extra short, short, long



Lab analogs, Ø 3.3/3.8/4.3/5.0/6.0 mm

IMPORTANT NOTE

All components for implant-supported bite registration on CAMLOG® Implants are for single use only and must not be modified.

BITE REGISTRATION WITH IMPRESSION POSTS, CLOSED TRAY

The impression posts, closed tray (both versions), are inserted into the previously cleaned implants and the fixing screws hand-tightened with a screwdriver, hex.

The bite registration caps are placed on the impression posts based on the color code and the occlusion is checked. Correct seating is indicated by a perceptible locking feel.



Registration of the habitual arch relations requires only standard materials. The caps should not be allowed to bond to the register.



Remove the bite registration, bite registration caps, and impression posts (by loosening the fixing screws) and give them to the dental laboratory. Screw in the impression posts with the color-coded lab analogs in the cast and mount the bite registration caps in the final position. Place the bite registration on the caps. Connect the bite registration to the opposing jaw cast and mount the casts in an articulator.



TEMPORARY ABUTMENTS

TEMPORARY ABUTMENTS FOR CAMLOG® IMPLANTS

INTRODUCTION

The temporary abutment, PEEK (PEEK=polyether ether keton), is designed for use in immediate restorations in esthetically significant regions. It can also be used for long-term provisionals up to 6 months as needed. The benefits of immediate implantation with an esthetic, non-functional immediate restoration consist in preservation of the structures of the periodontal or peri-implant tissue in esthetically critical zones. Once an adequate healing (osseointegration) period for the implant has elapsed and the peri-implant soft tissue has matured, a new impression for the final restoration can be taken.



TEMPORARY ABUTMENTS WITH K ARTICLE NUMBERS (K-SERIES) – ROUND BECOMES SQUARE

The new SCREW-LINE Implants with K article numbers (K-Series) include an inner groove configuration making the platform switching option available to the user. The geometry of the three grooves was changed from round to square and thus also shortened. Because of this change, all temporary abutments also include square cams and K article numbers (K-Series).

EXISTING TEMPORARY ABUTMENTS WITH K ARTICLE NUMBERS (K-SERIES) FOR ALL CAMLOG IMPLANT LINES

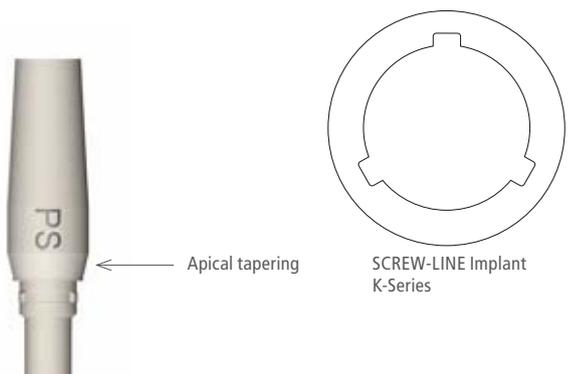
ART. NO.	K2241.3800	K2241.4300	K2241.5000	K2241.6000
Temporary abutment, preparable, incl. abutment screw				
FOR IMPLANT Ø	3.8 MM	4.3 MM	5.0 MM	6.0 MM

12.0 mm

The temporary abutment has a prosthetic height of 12.0 mm. Use the screw-driver to hand-tighten the abutment screw.

TEMPORARY ABUTMENTS PS FOR OPTION PLATFORM SWITCHING WITH NEW SCREW-LINE IMPLANTS WITH K ARTICLE NUMBERS (K-SERIES)

The platform switching option is only possible with the new SCREW-LINE Implants with K article numbers (K-Series). To make appropriate soft-tissue management possible for platform switching, healing caps PS are used for healing. This requires the subsequent use of the temporary abutment PS for platform switching. Like the healing cap PS, these are also tapered in the apical area making it possible to adapt soft tissue over the implant shoulder.



IMPORTANT NOTE

- All prosthetic components PS for platform switching may only be used in conjunction with SCREW-LINE Implants with K article numbers (K-Series)!
- To avoid soft-tissue injury with temporary restorations, only temporary abutments PS for platform switching may be used in conjunction with healing caps PS!

TEMPORARY ABUTMENTS PS FOR PLATFORM SWITCHING WITH NEW SCREW-LINE IMPLANTS WITH K ARTICLE NUMBERS

ART. NO.	K2208.3800	K2208.4300	K2208.5000	K2208.6000
Temporary abutment PS, preparable, incl. abutment screw				
FOR IMPLANT Ø	3.8 MM	4.3 MM	5.0 MM	6.0 MM

12.0 mm

The temporary abutment PS has a prosthetic height of 12.0 mm. Use the screwdriver to hand-tighten the abutment screw.

NOTE

Fabrication of the temporary superstructures on CAMLOG® Implants with the existing temporary abutment and temporary abutment PS for platform switching is identical.



Important instruments/lab analogs/lab screws:



Screwdrivers, hex, extra short, short, long



Lab analogs, Ø 3.8/4.3/5.0/6.0 mm



Lab screw, thread M 1.6, for implant Ø 3.8/4.3 mm



Lab screw, thread M 2.0, for implant Ø 5.0/6.0 mm

FABRICATION OF A TEMPORARY RESTORATION

PREPARING THE TEMPORARY ABUTMENT

Insert the temporary abutment into the implant and rotate until the cams engage with the grooves. Insert the abutment screw into the abutment and use a screwdriver, hex, to hand-tighten.

Mark the vestibular midpoint and the preparation margins on the abutment following the gingival line.



Temporary abutment insertion



Vestibular mark

Perform any required grinding of the temporary abutment extra-orally to prevent contamination of the surrounding tissues.

For better handling, the abutment can be mounted on a lab analog or abutment pick-up for the universal holder.



To protect the abutment screw, we recommend using a lab screw with the corresponding diameter.



Depending on the marks, the preparation resembles conventional perioprosthodontics. A good solution is obtained with a diamond bur at high drilling speed, without water irrigation, and using little pressure. The chamfer or crown margins must lie paragingivally in immediate restorations in esthetically critical regions and approx. 1.0–1.5 mm subgingivally for later restorations to achieve an anatomically favorable emergence profile in the peri-implant tissue. A mark is placed on the vestibular aspect to facilitate detection of the insertion position of the abutment.



Trimming the abutment on the lab analog

TEMPORARY CROWNS/BRIDGES, CHAIR-SIDE

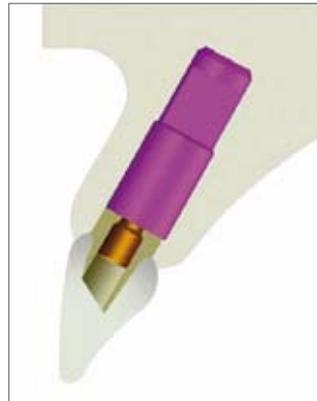
The temporary abutment is mounted to the implant and acrylic material secures the temporary crown/bridge (strip crown) to the temporary abutment. To prevent acrylic material from flowing into the screw channel, the channel can be sealed with wax in advance.

NOTE

The insertion directions of the abutments, indicated by the implant axial direction, rarely match. For this reason, bridge structures should not be fabricated in one piece (firmly attached) with the temporary abutment. The temporary abutments are first screwed on the implants, then the temporary bridge is mounted (passive fit).

TEMPORARY CROWNS/BRIDGES, LAB-SIDE

The temporary restoration can also be fabricated in the dental laboratory on the working cast based on the procedure for fabricating temporary solutions similar to those used in conventional crown and bridge restorations.

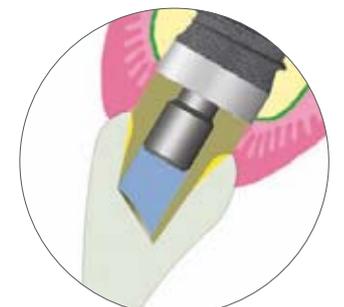
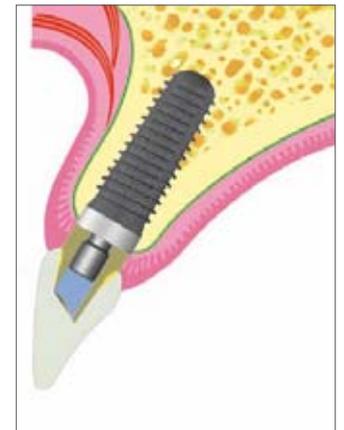


Customized temporary abutment on the working cast

INSERTING THE TEMPORARY ABUTMENT

Thoroughly clean and dry the inner configuration of the implant prior to inserting the temporary abutment. Insert the temporary abutment into the implant and rotate it until the cams engage with the implant grooves. After hand-tightening the abutment screw with a screwdriver, seal the screw channel with an easily removable material. Do not use composite since drilling it out would be required in order to remove the screw. Make sure that the screw channel is not overfilled; the surface should be concave.

The temporary crown or bridge is mounted to the customized temporary abutment using temporary cement. All cement residues must be removed.



FURTHER DOCUMENTATION

Information about preparing prosthetic components is available in "Preparation Instructions for the CAMLOG® Implant System", Art. No. J8000.0032.

Further information about CAMLOG® products is available in the current CAMLOG product catalog, in the working instructions and in the instruction manuals included with CAMLOG® products.

See also www.camlog.com.

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