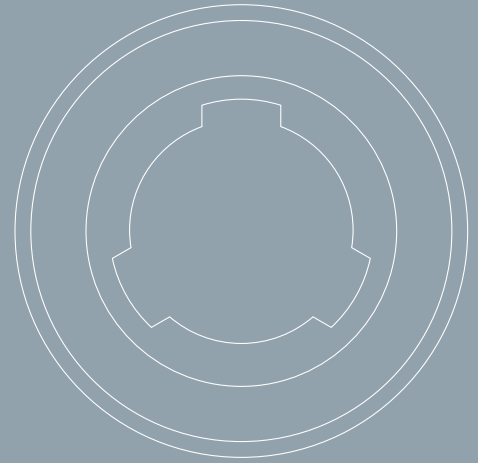


CONELOG[®]
SYSTEM



CONELOG[®] IMPRESSION TAKING AND BITE REGISTRATION



a perfect fit[™]

camlog



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GENERAL SYSTEM INFORMATION ABOUT THE CONELOG® IMPLANT SYSTEM

The CONELOG® Implant System is based on years of clinical and laboratory experience and is a user-friendly, consistent prosthetically oriented implant system.

All CONELOG® Products are manufactured with the latest state-of-the-art technology. The CONELOG® Implant System is continuously being developed by the company's research and development team in collaboration with clinics, universities and dental technicians and therefore stays abreast of the latest technology.

The CAMLOG® and CONELOG® Implant Systems are well documented scientifically. Studies* support this with respect to a great many parameters including the implant surface, time of implantation and/or implant loading, primary stability, and the connection design. The long-term results of the Promote® Surface are convincing.





IMPORTANT NOTE

The descriptions that follow are not adequate to permit immediate use of the CONELOG® Implant System. Instruction by a surgeon experienced in using the implant system is strongly recommended. CONELOG® Dental implants and abutments should only be used by dentists, doctors, surgeons and dental technicians who have been trained in using the system. Appropriate courses and training sessions are regularly offered by CAMLOG.

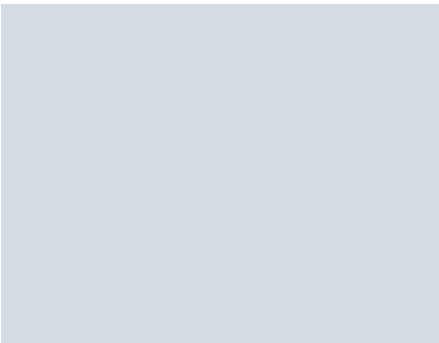
Methodological errors in treatment can result in loss of the implant and significant loss of peri-implant bone.

COLOR CODING

COLOR CODING OF THE SURGICAL AND PROSTHETIC CONELOG® PRODUCTS

	COLOR	DIAMETER
	Gray	3.3 mm
	Yellow	3.8 mm
	Red	4.3 mm
	Blue	5.0 mm

* See «Further documentation» on page 16



IMPRESSION-TAKING

INTRODUCTION

CONELOG® Impression-taking components provide a highly precise, rotation-resistant transfer system for both closed and open tray methods. The CONELOG® Impression posts do not engage with the taper of the CONELOG® Implant but rather rest on the implant shoulder. This prevents a height displacement when taking the impression. The CONELOG® Groove/cam connection is the mechanism for the rotation locking. All system parts are color-coded to match the respective implant diameters. It is important to ensure that only implants and impressions components of the specific diameter (color-coding) are used with each other. No components of differing diameters may be connected with one another. The system parts must not be modified.

IMPRESSION-TAKING METHODS, OPEN AND CLOSED TRAY

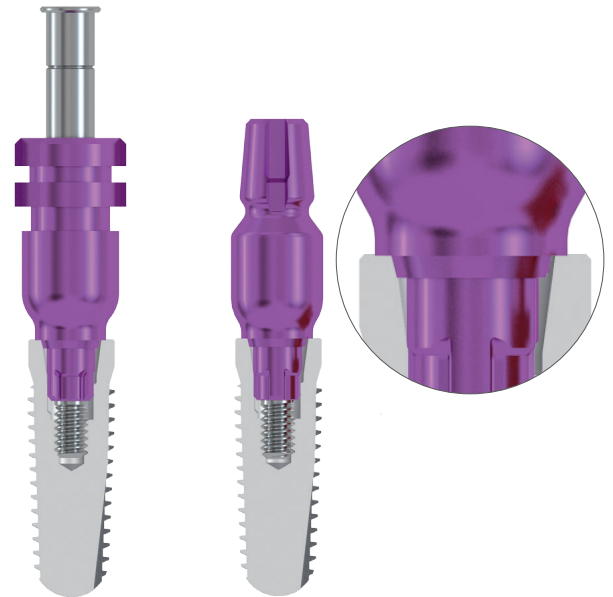
The open or closed-tray methods may be selected to take the impression. The open tray impression-taking method should be used in cases where implant axes diverge acutely or in combination with a functional impression-taking.

IMPRESSION-TAKING MATERIAL

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





NOTE

The impression-taking from CONELOG® SCREW-LINE implants can only be made using CONELOG® Impression posts, open and/or closed tray.

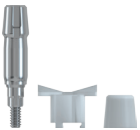
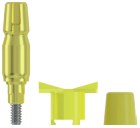








CONELOG® Impression posts, open and closed tray

IMPRESSION-TAKING

	Article	Art. No.	Ø	PH
	CONELOG® Impression post, open tray, including fixing screw	C2121.3300	3.3 mm	10.0 mm
		C2121.3800	3.8 mm	
		C2121.4300	4.3 mm	
		C2121.5000	5.0 mm	

PH = Prosthetic height

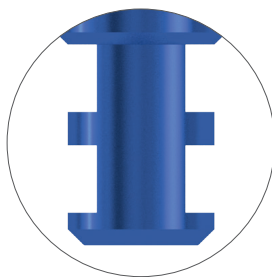
	Article	Art. No.	Ø	PH
	CONELOG® Impression posts, closed tray, including impression cap, bite registration cap and fixing screw	C2110.3300	3.3 mm	10.7 mm
		C2110.3800	3.8 mm	
		C2110.4300	4.3 mm	
		C2110.5000	5.0 mm	
	Spare Impression cap for impression posts, closed tray (5 units)	J2111.3300	3.3 mm	—
		J2111.3800	3.8 mm	
		J2111.4300	4.3 mm	
		J2111.5000	5.0 mm	

PH = Prosthetic height

REQUIRED INSTRUMENTS/LAB ANALOGS:



Screwdrivers, hex, extra short, short, long



CONELOG® Lab analogs with two retention notches



CONELOG® lab analogs, Ø 3.3/3.8/4.3/5.0 mm

IMPORTANT NOTE

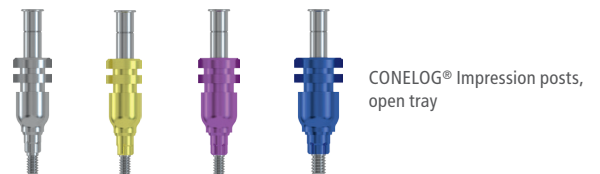
All components for impression-taking of CONELOG® Implants are designed for single use and must not be modified.

IMPRESSION-TAKING

OPEN-TRAY IMPRESSION-TAKING METHOD

The open-tray impression-taking method requires a custom-made impression tray that is perforated for the protrusion of the fixing screw extending from the implant axis.

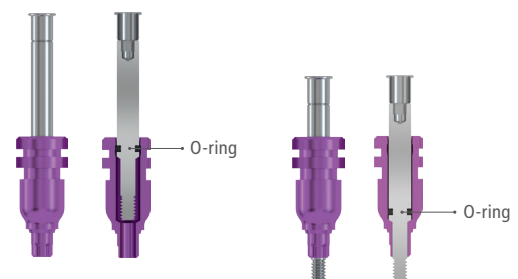
The fixing screw is secured in the CONELOG® Impression post with an O-ring and must only be tightened by hand using the screwdriver, hex, both in the CONELOG® Implant as well as in the CONELOG® Lab analog.



NOTE

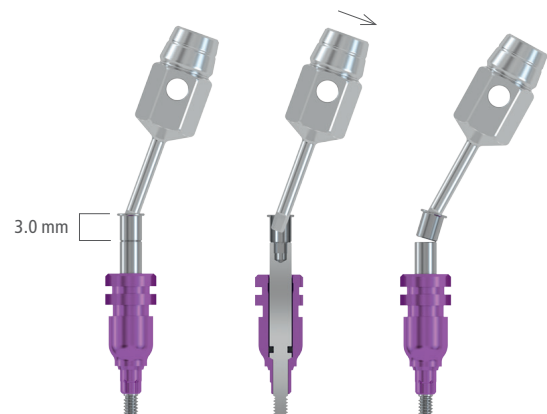
Before removing the impression, the loosened screw must be withdrawn until you can feel the limit stop (O-ring). Otherwise the axis divergences of the implant can make removing the impression difficult or can deform the impression due to the high compression.

Impressions can be taken with implant axis divergences of up to 20° (10° for each CONELOG® Implant).



The fixing screw is equipped with a predetermined breaking 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!



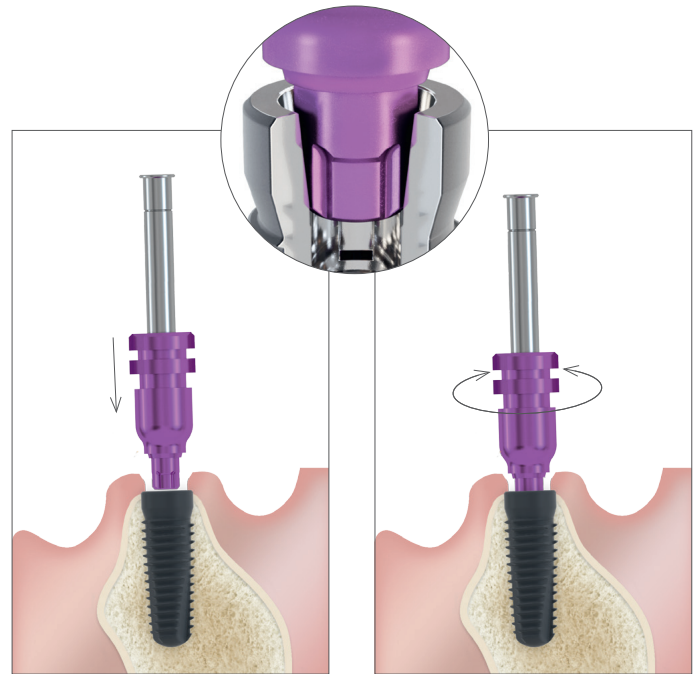
CONELOG® IMPRESSION POST INSERTION

The healing cap or temporary restoration is removed.

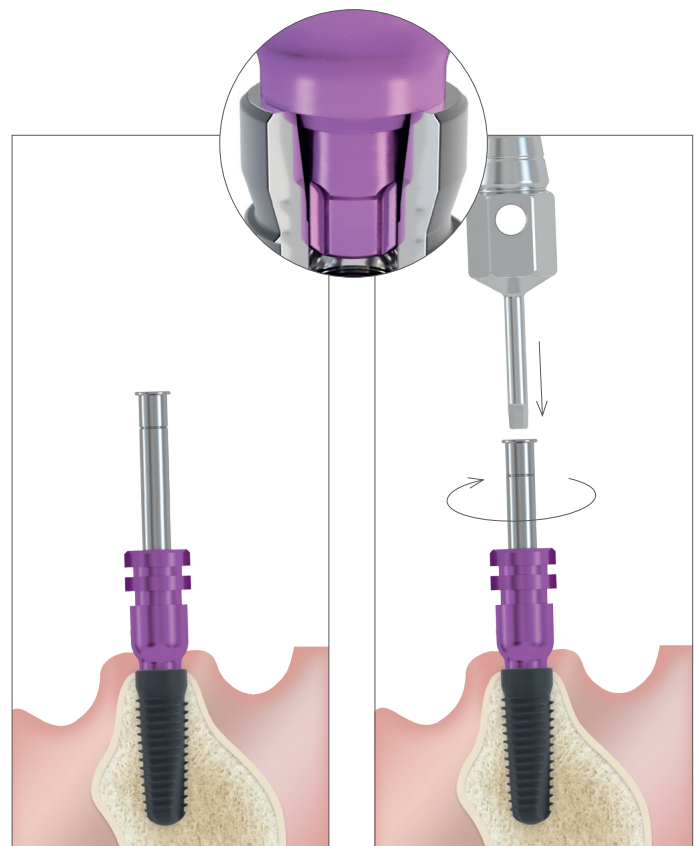
The impression post open-tray is placed on the implant and the fixing screw is gently tightened. The impression post is rotation-symmetrical and does not require any specific orientation. Carefully rotate the impression post in the implant until the cams engage with the grooves of the implant.

CAUTION!

Height difference if cams are not snapped into place is approx. 0.6 mm!



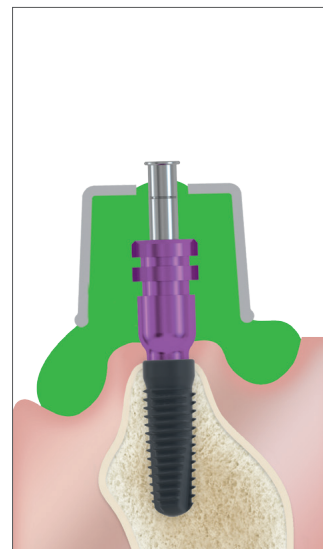
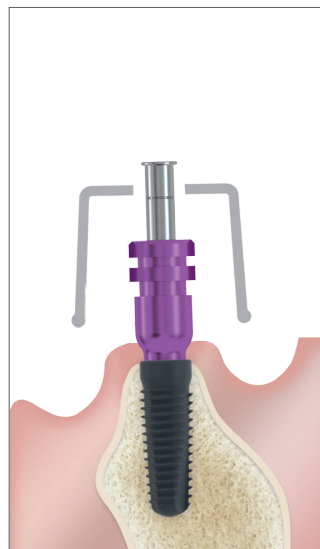
Tighten the fixing screw manually with the screwdriver, hex. We recommend taking an x-ray to check that the impression post is seated correctly before taking the impression, particularly where gingiva is tight and thick.



IMPRESSION-TAKING

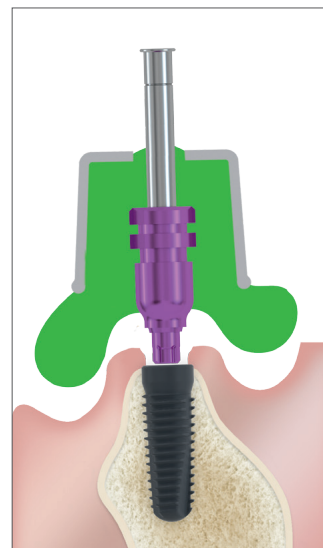
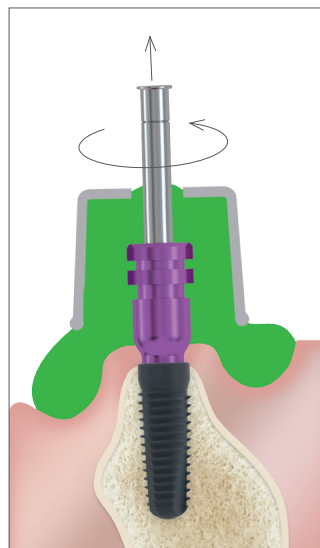
IMPRESSION-TAKING

Before taking the impression, check the tray for a precision fit. The fixing screws protruding from the perforations must not touch the tray. Next, the impression is taken with silicone or polyether impression material.



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

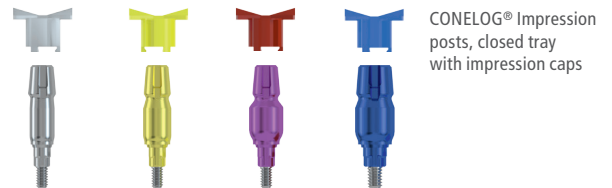
TIP: To simplify the procedure, we recommend sending the laboratory the corresponding CONELOG® Lab analog as well.



CLOSED TRAY IMPRESSION-TAKING METHOD

The CONELOG® Impression posts, closed tray, are color-coded, have an internal fixing screw and are delivered with an impression cap and a bite registration cap. A prefabricated impression tray can be used for the closed tray impression-taking method.

As an option, bite registration can be performed directly via the impression posts using the bite registration caps. The procedure is identical to that with the CONELOG® Bite registration posts as described from page 11 onwards.



The fixing screw in the CONELOG® impression post must only be tightened by hand using the screwdriver, hex, both in the CONELOG® implant as well as in the CONELOG® Lab analog.

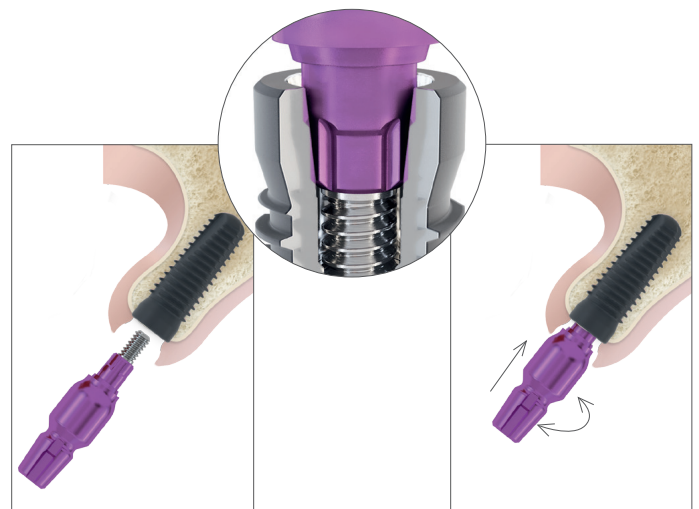
2.0 mm

When the impression post is inserted, the fixing screw protrudes approx. 2.0 mm.

After tightening the fixing screw, it sits flush with the upper edge of the impression post (4–5 rotations).

CONELOG® IMPRESSION POST INSERTION

After removing the healing cap or the temporary restoration, the impression post (with inserted fixing screw) is inserted into the implant. As you rotate it, you will feel the cams snap into the grooves of the implant.

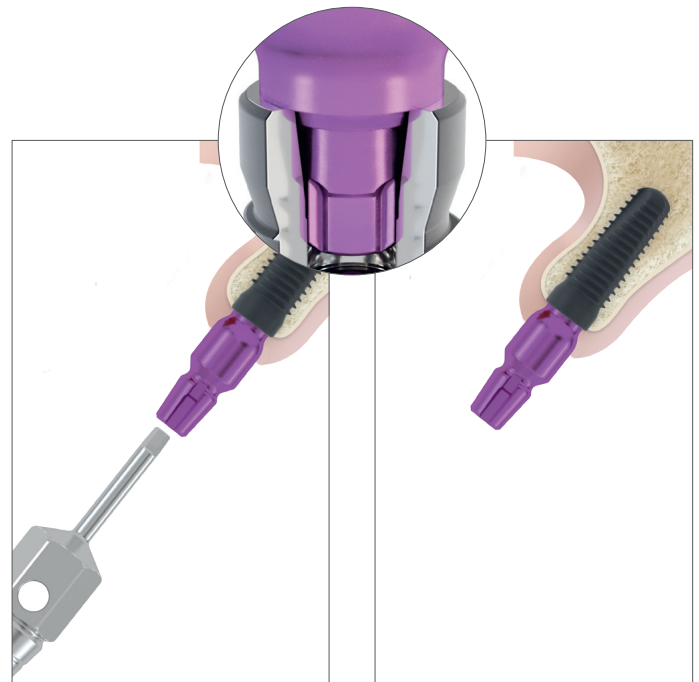


IMPRESSION-TAKING

NOTE

After the impression post has locked in place and before screwing in, the fixing screw protrudes approximately 2 mm from the post.

Tighten the fixing screw manually with the screwdriver, hex. We recommend taking an x-ray to check that the impression post is seated correctly before taking the impression, particularly where gingiva is tight and thick.



IMPRESSION-TAKING

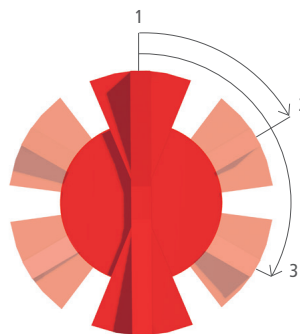
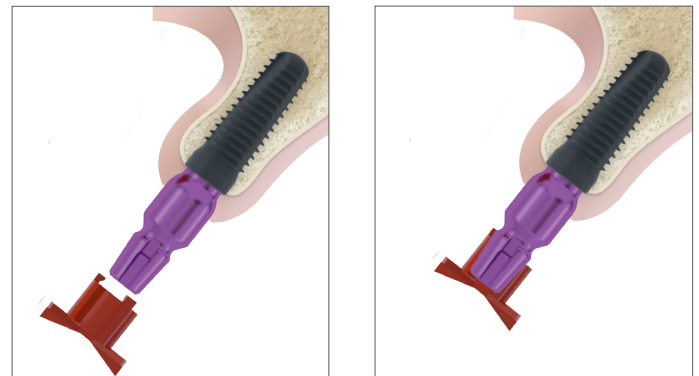
The color-coded impression cap is now placed onto the impression post using the guide grooves until a detectable pressure point is reached and the impression cap is clearly fixed into place. Three guide grooves on the impression post (each at 120°) allow for a contact-free placement with respect to the adjacent impression caps or adjacent teeth. The extensions of the impression caps must not be removed.

Right before taking the impression, check again to ensure that the impression caps are seated correctly.

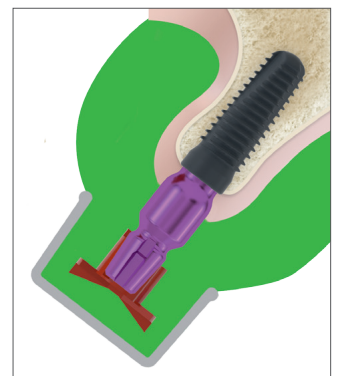
The impression caps stay in the impression after the impression tray has been removed. If this is not the case, take the impression again. Then the impression posts are removed and handed over to the dental laboratory together with the impression.

TIP: To simplify the procedure, we recommend sending the laboratory the corresponding CONELOG® Lab analogs as well.

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



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



BITE REGISTRATION POSTS

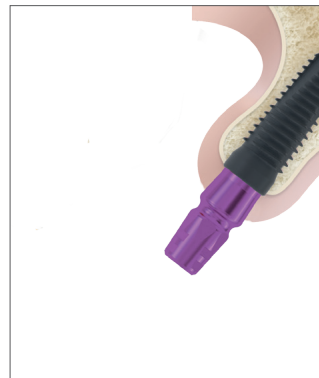
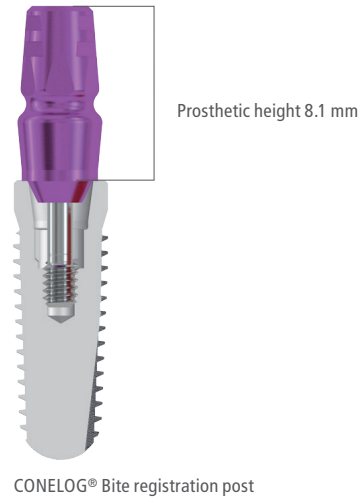
INTRODUCTION

Color-coded CONELOG® Bite registration posts are available for all CONELOG® Implant diameters for accurate implant-supported measurement of arch relations and their transfer to the cast situations. The posts include a bite registration cap and an integrated fixing screw.









There are two options for taking the bite registration:

- Option A. Bite registration with mounted bite registration caps
- Option B. Bite registration with splinted bite register without caps

The CONELOG® Bite registration posts have a prosthetic height of 8.1 mm and are suitable for limited occlusal space conditions. A shortened post/implant connection in comparison to the abutment and impression post connection make the use of splinted bite registration posts with implant abutment divergences of up to 20° possible.



BITE REGISTRATION POSTS

	Article	Art. No.	Ø	PH
	CONELOG® Bite registration post incl. fixing screw and bite registration cap	C2140.3300	3.3 mm	8.1 mm
		C2140.3800	3.8 mm	
		C2140.4300	4.3 mm	
		C2140.5000	5.0 mm	
	Bite registration cap (5 units)	J2112.3300	3.3 mm	—
		J2112.3800	3.8 mm	
		J2112.4300	4.3 mm	
		J2112.5000	5.0 mm	

PH = Prosthetic height

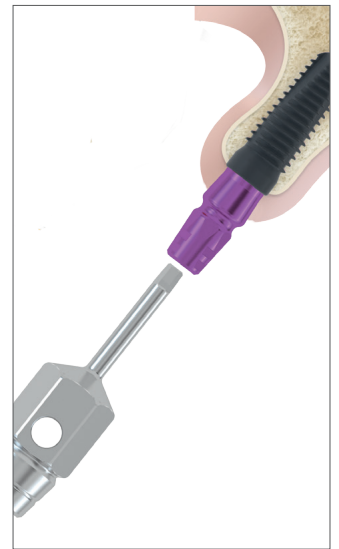
IMPORTANT NOTE

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

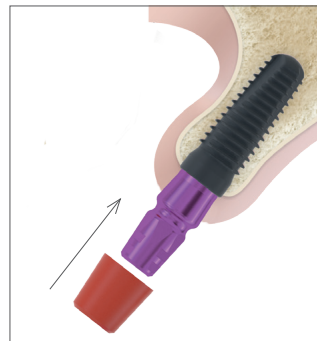
APPLICATION

OPTION A. BITE REGISTRATION WITH MOUNTED BITE REGISTRATION CAPS

The bite registration posts are placed in the previously cleaned implants and a screwdriver (hex) is used to hand-tighten the fixing screws.



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



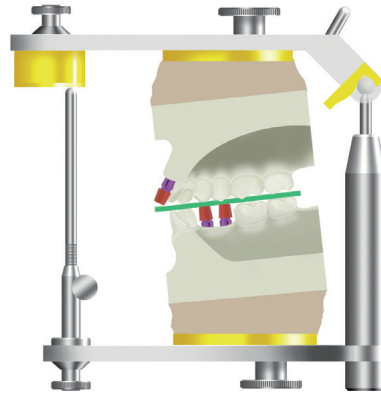
It follows the registration of the arch relations with usual standard materials. The caps should not be allowed to bond to the register.



BITE REGISTRATION POSTS

Remove the bite register, the bite registration caps and the bite registration posts (by loosening the fixing screws) and give all to the dental laboratory. Screw in the bite registration posts into 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.

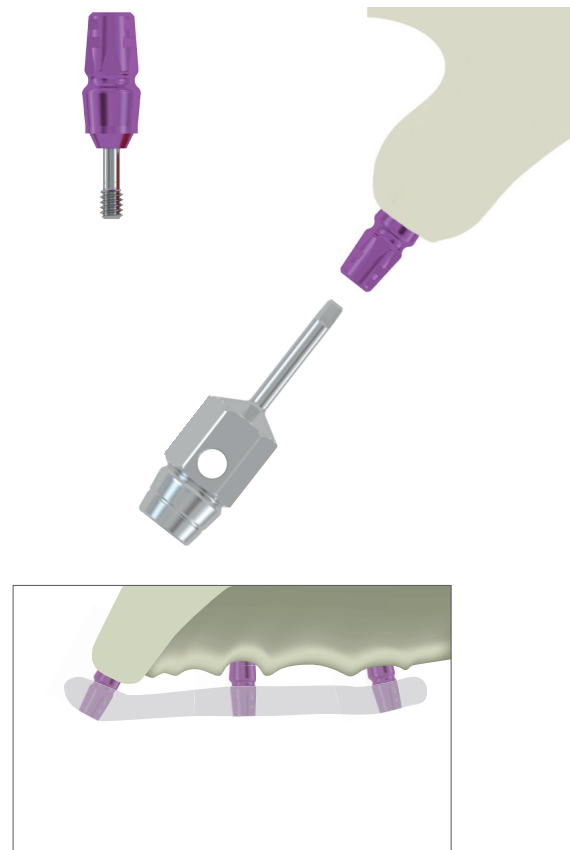
TIP: If bite registration posts cannot be used due to limited space conditions (to prevent bite elevation), a healing cap, cylindrical, height 6 mm, may be used. Record the diameter, the position, and the height of the healing cap on the information work sheet and deliver it with the corresponding healing cap to the dental laboratory.



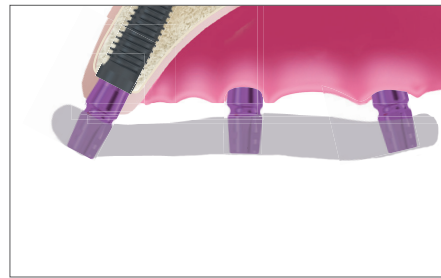
OPTION B. BITE REGISTRATION WITH SPLINTED BITE REGISTER

After taking the impression and fabricating the cast, fix the CONELOG® Bite registration posts in the lab analogs and fabricate a bite register splinted with the posts on the working cast. Coat and connect the bite registration posts with a suitable plastic. Do not cover the fixing screws.

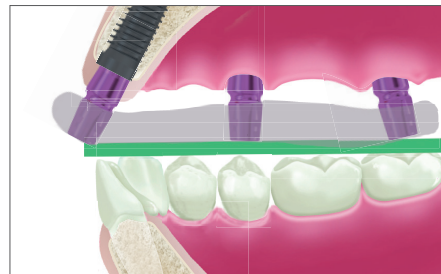
TIP: To avoid distortion stress with larger restorations (edentulous jaw, large gaps), we recommend disconnecting the register between the implant pillars and then reconnecting in the mouth with suitable plastic after attaching to the implants.



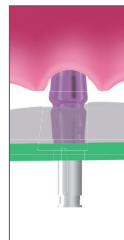
Once the register has been created, it is inserted in the mouth, a screwdriver (hex) is used to hand-tighten the fixing screws and the occlusion is checked.



It follows the registration of the arch relations with usual standard materials.

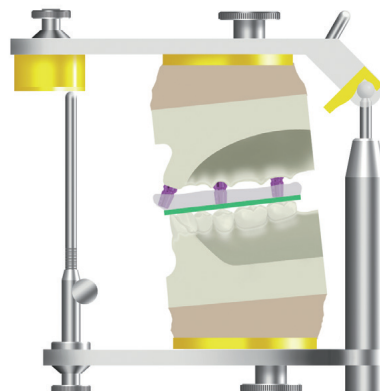


Loosen the fixing screws after curing. To safely remove the bite register, extract the screws from the posts to the stop position. Remove the bite register with the integrated bite registration posts and give it to the dental laboratory.



Fixing screw extracted to the stop position

Mount the bite register with integrated bite registration posts on the lab analogs in the cast and screw on. Connect the bite registration to the opposing jaw cast and mount the casts in an articulator.



FURTHER DOCUMENTATION

Further information on the CONELOG® Products can be found in the following documents:

- CONELOG® Product catalog
- CONELOG® Working instructions
- CONELOG® Instruction for use
- Preparation instructions
- CAMLOG literature overview
- CAMLOG and science

The documents are available from the local CAMLOG representative.

See also:

<http://ifu.camlog.com>

www.camlog.com

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HEADQUARTERS

CAMLOG Biotechnologies AG | Margarethenstr. 38 | 4053 Basel | Switzerland
Phone +41 61 565 41 00 | Fax +41 61 565 41 01 | info@camlog.com | www.camlog.com

Manufacturer of CAMLOG® and CONELOG® Products: ALTATEC GmbH | Maybachstr. 5 | 71299 Wimsheim | Germany

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