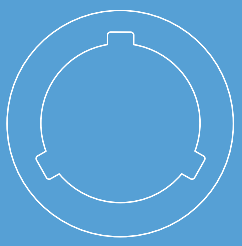
CAMLOG® SYSTEM



CONELOG® SYSTEM

TEMPORARY ABUTMENTS FOR CROWN AND BRIDGE RESTORATIONS

TEMPORARY RESTORATIONS ON CAMLOG® AND CONELOG® IMPLANTS

a perfect fit™

camlog

TABLE OF CONTENTS

GENERAL
SYSTEM INFORMATION

CAMLOG® AND CONELOG® IMPLANT SYSTEMS

CAMLOG® and CONELOG® Implant systems have been developed based on long-standing clinical and laboratory experience. The two systems are user-friendly and consistently prosthetical-oriented.

All CAMLOG® and CONELOG® products are always manufactured using the most state-of-the-art technology. Both implant systems are continuously being developed by the company's research and development team in collaboration with clinics, universities and dental technicians and therefore stay abreast of the latest technology.

The CAMLOG® Implant System is very 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, connection design or type of superstructure. The long-term results of the CAMLOG® Implant System are convincing.

IMPORTANT NOTE

The descriptions that follow are not adequate to permit immediate use of the CAMLOG® and CONELOG® Implant System. Instruction by a surgeon experienced in using one of the two systems is strongly recommended. CAMLOG® and CONELOG® products 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 OF THE SURGICAL AND PROSTHETICAL CAMLOG® AND CONELOG® PRODUCTS

COLOR	DIAMETER
gray	3.3 mm
yellow	3.8 mm
red	4.3 mm
blue	5.0 mm
green	6.0 mm

IMPORTANT NOTE

- The abutments may not be modified at the implant-abutment connection.
- Further important information on the CAMLOG® and CONELOG® products is described in the instruction manuals and must be observed.

CAMLOG® AND CONELOG®
TEMPORARY ABUTMENTS
PRODUCT DESCRIPTION

Various abutments are available for the CAMLOG® and the CONELOG® Implant systems for temporary prosthetic restorations. CAMLOG® and CONELOG® Temporary abutments made of titanium alloy (Ti6Al4V ELI) are available in crown and bridge versions.

As an option, temporary restoration on CAMLOG® Implants can also be performed with temporary abutments made of PEEK (poly ether ether ketone).

CAMLOG® Temporary abutments

PEEK	TITANIUM ALLOY	
Single crowns and secondary cementable bridge frameworks (Passive-Fit)	Single crowns	Bridge restorations (with CAMLOG® marking)
		

CONELOG® Temporary abutments

TITANIUM ALLOY	
Single crowns	Bridge restorations (with CONELOG® marking)
	

The abutments are for use as immediate restorations and, if required, can also be used for long-term temporary restorations in the maxilla and mandible. The benefits of immediate implantation with non-functional immediate restoration consist in preservation of the structures of the periodontal or peri-implant tissue. After an adequate healing phase (osseointegration) for the implant and maturing of the peri-implant soft tissue, a new impression is taken for the final restoration.

All CAMLOG® and CONELOG® Temporary abutments are supplied with an abutment screw and can be shortened individually (extraorally). Options for fabricating a prosthetic restoration are either directly on the patient (chair-side) or on the working model in the laboratory (lab-side).

To fabricate a bridge restoration, the temporary abutments, bridge (titanium alloy) can be primarily splinted. All temporary abutments can be veneered directly with plastic.

CAMLOG® TEMPORARY ABUTMENTS, PEEK

TEMPORARY RESTORATIONS

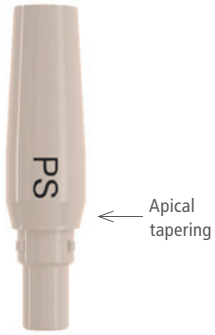
CAMLOG® Temporary abutments, PEEK, are available with a Tube-in-Tube® Implant-abutment connection for positioning/as antirotational mechanism for the use of immediate restorations. They can also be used for long-term temporary restorations up to a maximum of 6 months as needed.

CAMLOG® Temporary abutment, with Tube-in-Tube® Implant-abutment connection, PEEK, incl. CAMLOG® Abutment screw

ART. NO.	K2241.3800	K2241.4300	K2241.5000	K2241.6000
				
Implant Ø in mm	3.8	4.3	5.0	6.0
Prosthetic height in mm	12.0	12.0	12.0	12.0

OPTION PLATFORM SWITCHING

The Platform Switching option is possible with CAMLOG® Temporary abutments PS. 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 caps PS, these are also tapered in the apical area making it possible to adapt soft tissue over the CAMLOG® Implant shoulder.



CAMLOG® Temporary abutment PS, with Tube-in-Tube® Implant-abutment connection, PEEK, incl. CAMLOG® Abutment screw

ART. NO.	K2208.3800	K2208.4300	K2208.5000	K2208.6000
				
Implant Ø in mm	3.8	4.3	5.0	6.0
Prosthetic height in mm	12.0	12.0	12.0	12.0

IMPORTANT NOTE

To avoid tissue injury with temporary restorations, only temporary abutments PS for Platform Switching may be used in conjunction with the prior use of healing caps PS!

NOTE

Fabrication of a temporary restoration with a CAMLOG® Temporary abutment PEEK or a CAMLOG® Temporary abutment PS PEEK is identical in terms of handling.

PS: Platform Switching

CAMLOG® TEMPORARY ABUTMENTS, TITANIUM ALLOY, CROWN AND BRIDGE VERSIONS

TEMPORARY CROWN RESTORATIONS

For fabricating crown restorations, the CAMLOG® Temporary abutments are available with Tube-in-Tube® Implant-abutment connection for positioning/as antirotational mechanism.

Temporary abutments for crowns are color-coded to match the implant diameter and are available for all CAMLOG® Implant diameters.

NOTE
These abutments are not suitable for bridge restorations.

CAMLOG® Temporary abutment, crown, with Tube-in-Tube® Implant-abutment connection,
titanium alloy, incl. CAMLOG® Abutment screw

ART. NO.	K2239.3300	K2239.3800	K2239.4300	K2239.5000	K2239.6000
					
Implant Ø in mm	3.3	3.8	4.3	5.0	6.0
Prosthetic height in mm	12.0	12.0	12.0	12.0	12.0

TEMPORARY BRIDGE RESTORATIONS

CAMLOG® Temporary abutments without Tube-in-Tube® Implant-abutment connection are available for bridge restorations. In case of splinted abutments, the design thus enables bridging of implant axis divergences of up to 30° (15° per implant).

CAMLOG® Temporary abutments for bridges are marked with the corresponding implant diameter and two parallel markings for better identification.

NOTE
These abutments are not suitable for single crown restorations. Limited indications apply to abutments with Ø 3.3 mm, these are given in the corresponding instruction manual.

CAMLOG® Temporary abutment, bridge, without Tube-in-Tube® Implant-abutment connection,
titanium alloy, incl. CAMLOG® Abutment screw

ART. NO.	J2339.3300	J2339.3800	J2339.4300	J2339.5000	J2339.6000
					
Implant Ø in mm	3.3	3.8	4.3	5.0	6.0
Prosthetic height in mm	12.0	12.0	12.0	12.0	12.0

The prosthetic height is the distance between the implant shoulder surface up to the occlusal abutment edge.

CONELOG® TEMPORARY ABUTMENTS, TITANIUM ALLOY, CROWN AND BRIDGE VERSIONS

TEMPORARY CROWN RESTORATIONS

For fabricating crown restorations, the CONELOG® Temporary abutments are available with tapered implant-abutment connection and three grooves for positioning/as antirotational mechanism.

Temporary abutments for crowns are color-coded to match the implant diameter and are available for all CONELOG® Implant diameters.

NOTE
These abutments are not suitable for bridge restorations.

CONELOG® Temporary abutment, crown, with tapered implant-abutment connection,
titanium alloy, incl. CONELOG® Abutment screw

ART. NO.	C2239.3300	C2239.3800	C2239.4300	C2239.5000
				
Implant Ø in mm	3.3	3.8	4.3	5.0
Prosthetic height in mm	11.0	11.0	11.0	11.0

TEMPORARY BRIDGE RESTORATIONS

CONELOG® Temporary abutments without apical taper/grooves are available for bridge restorations. In case of splinted abutments, the design thus enables bridging of implant axis divergences of up to 30° (15° per implant). CONELOG® Temporary abutments for bridges are marked with the corresponding implant diameter and a triangle for better identification.

NOTE
These abutments are not suitable for single crown restorations. Limited indications apply to abutments with Ø 3.3 mm, these are given in the corresponding instruction manual.

CONELOG® Temporary abutment, bridge, without tapered implant-abutment connection,
titanium alloy, incl. CONELOG® Abutment screw

ART. NO.	C2339.3300	C2339.3800	C2339.4300	C2339.5000
				
Implant Ø in mm	3.3	3.8	4.3	5.0
Prosthetic height in mm	11.2	11.2	11.2	11.2

The prosthetic height is the distance between the implant shoulder surface up to the occlusal abutment edge of the CONELOG® Abutment screwed into the CONELOG® Implant.

REQUIRED INSTRUMENTS / LAB ANALOGS / SCREWS

Screwdriver, hex, manual/wrench extra short, short, long

Screwdriver, hex, ISO shaft, short, long

CONELOG® Disconnector for removing CONELOG® Temporary abutments, crown, for implant Ø 3.3/3.8/4.3 mm and 5.0 mm

Torque wrench for screwdriver, hex, and CONELOG® Disconnector

	CAMLOG® LAB ANALOGS					CONELOG® LAB ANALOGS			
ART. NO.	K3010.3300	K3010.3800	K3010.4300	K3010.5000	K3010.6000	C3010.3300	C3010.3800	C3010.4300	C3010.5000
Implant Ø in mm	3.3	3.8	4.3	5.0	6.0	3.3	3.8	4.3	5.0
									

	CAMLOG® SCREWS				CONELOG® SCREWS			
	LAB SCREW		ABUTMENT SCREW		LAB SCREW		ABUTMENT SCREW	
ART. NO.	J4006.1601	J4006.2001	J4005.1601	J4005.2001	C4006.1601	C4006.2001	C4005.1601	C4005.2001
Thread	M 1.6	M 2.0	M 1.6	M 2.0	M 1.6	M 2.0	M 1.6	M 2.0
Implant-Ø in mm	3.3/3.8/4.3	5.0/6.0	3.3/3.8/4.3	5.0/6.0	3.3/3.8/4.3	5.0	3.3/3.8/4.3	5.0
								

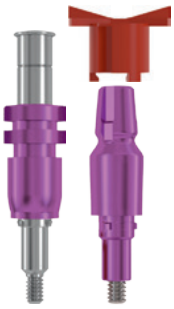
IMPORTANT NOTES

- Lab screws may not be used on patients.
- Abutment screws are used for final attachment of the prosthetic restoration in the implant.

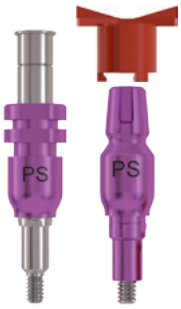
APPLICATION

IMPRESSION TAKING AND CAST FABRICATION

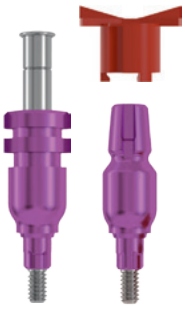
Impression-taking is performed with CAMLOG® or CONELOG® Impression posts, open or closed tray. All impression posts are available for all corresponding implant diameters.



CAMLOG® Impression post,
open and closed tray



CAMLOG® Impression post PS,
open and closed tray,
for Platform Switching



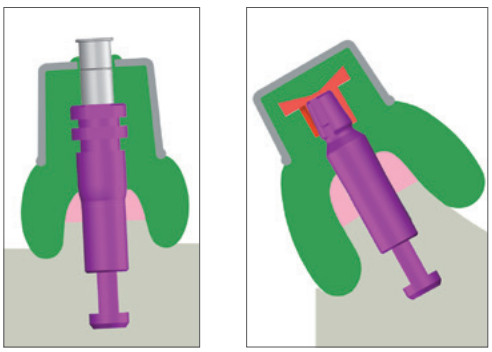
CONELOG® Impression post,
open and closed tray

Depending on the type of impression (open or closed tray) and the implant system used, the working model is fabricated with CAMLOG® or CONELOG® Lab analogs. Please observe the color-coding. All lab analogs are available for all corresponding implant diameters. Depending on the impression method used, the lab analogs are connected to the corresponding impression posts. The fixing screws are only hand-tightened with the hex screwdriver here.

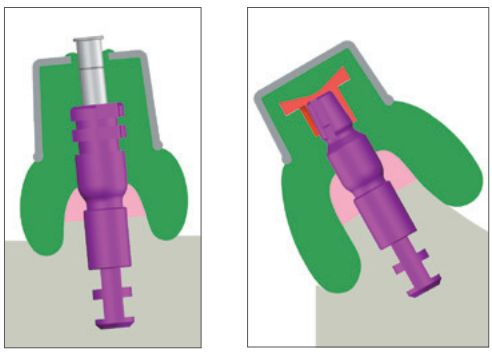
CAMLOG® Lab analog

CONELOG® Lab analog

Cast fabrication with suitable materials in the usual manner.



CAMLOG® cast fabrication, open and closed tray



CONELOG® cast fabrication, open and closed tray

FABRICATION OF TEMPORARY RESTORATIONS

CAMLOG® TEMPORARY ABUTMENTS, PEEK

PROCESSING

Insert the temporary abutment into the implant and rotate until the cams engage with the grooves. Next, the abutment screw is inserted into the abutment and tightened by hand with a screwdriver, hex. Mark the vestibular midpoint and the preparation margins on the abutment following the gingival line.

Marking can also be performed on a working model with an elastic gingival mask.

The custom grinding of the temporary abutment is performed extraorally in order to prevent contamination of the surrounding tissue with particles from the grinding.

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

Temporary abutment insertion

Vestibular marking

Abutment collet with universal holder

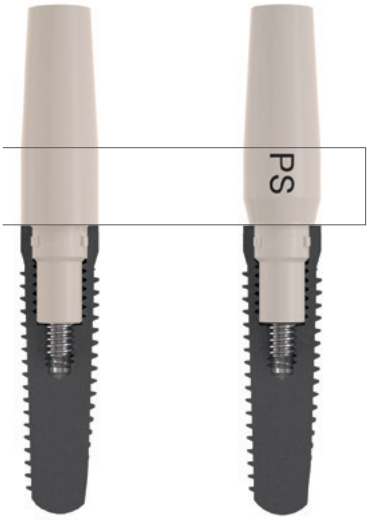
A lab screw which corresponds to the diameter must be used for custom grinding.

CAMLOG® Lab screws, thread M 1.6 and M 2.0

Depending on the marks, the preparation resembles conventional perioprosthetics. A good solution is obtained with a diamond bur at high drilling speed, without water irrigation, and using little pressure. The chamfer or crown margin 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

The abutment can be shortened occlusally depending on the anatomical situation. However, a minimum height of 4.2 mm must be maintained.



CAMLOG® Temporary abutment (PEEK)

CAMLOG® Temporary abutment PS (PEEK)

FABRICATION CHAIR-SIDE

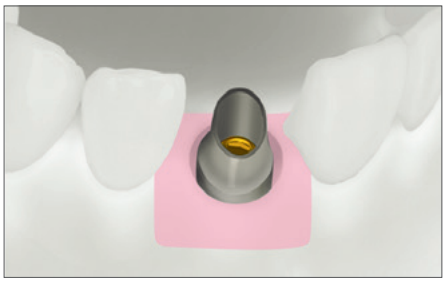
The temporary abutment is screwed with the implant (see also "Insertion of the temporary restoration").

The fabrication of a temporary crown or bridge can, for example, be performed with the aid of strip crowns. To prevent acrylic material from flowing into the screw channel, the channel needs to be sealed with an easily removable material beforehand. This is followed by finishing of the temporary restoration.

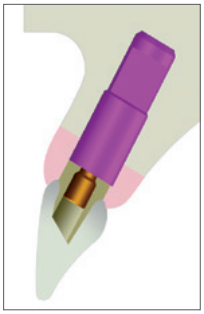
FABRICATION LAB-SIDE

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

For reasons of stability in a bridge construction, a metal reinforcement can be integrated into the temporary restoration in terms of a long-term temporary restoration.



Customized temporary abutment on the working cast



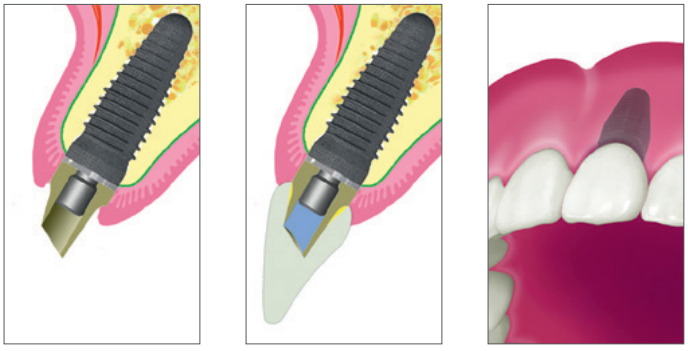
Temporary abutment with plastic crown

NOTE ON BRIDGE RESTORATIONS

The insertion directions of the bridge 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. Therefore, the temporary abutments are first screwed on the implants, then the temporary bridge is mounted finally (Passive Fit).

INSERTION OF THE TEMPORARY RESTORATION

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, hex, seal the screw channel with an easily removable hard 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 abutment using a suitable bonding material. Excess material must be removed completely.



Insertion of a temporary abutment PEEK with plastic crown

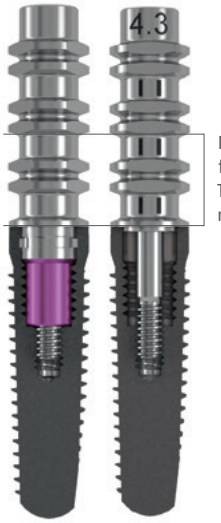
CAMLOG® AND CONELOG® TEMPORARY ABUTMENTS, TITANIUM ALLOY, CROWN AND BRIDGE VERSIONS

PROCESSING

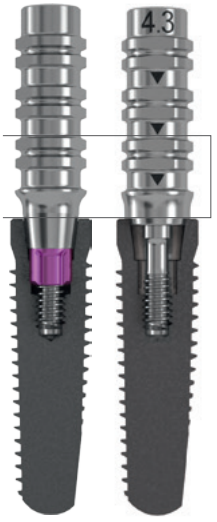
Fabrication of a temporary restoration with temporary abutments of the crown version and the bridge version is identical in terms of handling. Veneering of the abutments is performed with suitable materials made of plastic.

The abutments can be shortened occlusally depending on the anatomical situation. However, a minimum height of 4.2 mm must be maintained.

NOTE
The processing of components and the fabrication of a temporary restoration follows an identical procedure for the CAMLOG® and CONELOG® Temporary abutments made of titanium alloy.



CAMLOG® Temporary abutments, crown and bridge



CONELOG® Temporary abutments, crown and bridge

FABRICATION CHAIR-SIDE

Insert the temporary abutment into the implant, for the crown version rotate until the cams engage with the grooves. Next, the abutment screw is inserted into the temporary abutment and tightened by hand with a screwdriver, hex. The vestibular center and the desired occlusal height are marked on the abutment.

The custom shortening and/or grinding of the temporary abutment is performed extraorally in order to prevent contamination of the surrounding tissue with particles from the grinding. For better handling, the abutment can be mounted on a lab analog or abutment collet for the universal holder for this purpose.

Temporary abutment insertion

Abutment collet with universal holder

A lab screw which corresponds to the diameter must be used for custom grinding.

CAMLOG® Lab screws, thread M 1.6 and M 2.0

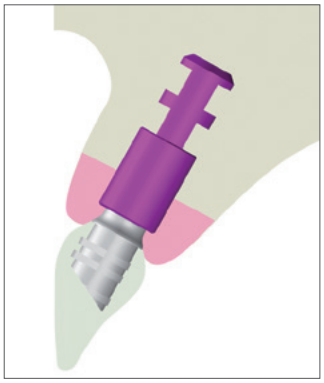
CONELOG® Lab screws, thread M 1.6 and M 2.0

After customizing and covering with opaque, the temporary abutment is inserted into the implant and screw-retained with an abutment screw. The fabrication of a temporary crown or bridge can, for example, be performed with the aid of strip crowns. To prevent acrylic material from flowing into the screw channel, the channel needs to be sealed with an easily removable material beforehand.

To loosen the temporary restoration again, the screw channel of the abutment must be opened for the screwdriver after the plastic has hardened. The temporary restoration is then shaped and the abutment, including the abutment screw, inserted back into the implant and the screw tightened accordingly.

FABRICATION LAB-SIDE

The temporary restoration can also be fabricated in the dental laboratory on the working model based on the procedure for fabricating temporary solutions similar to those used in conventional crown and bridge restorations. For reasons of stability in a bridge construction, a metal reinforcement can be integrated into the temporary restoration in terms of a long-term temporary restoration.



Customized temporary abutment on the working cast

INSERTION OF TEMPORARY RESTORATION

Thoroughly clean and dry the inner configuration of the implant prior to inserting the temporary abutment. Insert the temporary abutment into the implant, for the crown version rotate until the cams engage with the grooves. After tightening the abutment screw manually with a screwdriver, hex, the screw head is sealed with an easily removable material (e.g. gutta-percha). The screw canal must be sealed for esthetic and hygienic reasons with a removable material (e.g. composite).

OPTIONAL

For fixation of the long-term temporary restoration, the tightening torque is 20 Ncm after a successful healing phase of the implant. Retighten with the same torque after approx. 5 minutes to reach the maximum screw tension. These values apply to all temporary abutments made of titanium alloy.

Insertion of a temporary single-tooth restoration veneered directly with plastic

ARTICLE LIST

CAMLOG® TEMPORARY ABUTMENTS AND COMPONENTS

ART. NO.		ARTICLE	IMPLANT Ø IN MM	DIMENSIONS IN MM	MATERIAL
K2241.3800		**CAMLOG® Temporary abutment, PEEK,** incl. CAMLOG® Abutment screw	3.8		PEEK
K2241.4300			4.3		
K2241.5000			5.0		
K2241.6000			6.0		
K2208.3800		**CAMLOG® Temporary abutment PS, PEEK,** incl. CAMLOG® Abutment screw PS: Platform Switching	3.8		PEEK
K2208.4300			4.3		
K2208.5000			5.0		
K2208.6000			6.0		
K2239.3300		**CAMLOG® Temporary abutment, crown, titanium alloy** incl. CAMLOG® Abutment screw	3.3		Titanium alloy
K2239.3800			3.8		
K2239.4300			4.3		
K2239.5000			5.0		
K2239.6000			6.0		
J2339.3300		**CAMLOG® Temporary abutment, bridge, titanium alloy** incl. CAMLOG® Abutment screw	3.3		Titanium alloy
J2339.3800			3.8		
J2339.4300			4.3		
J2339.5000			5.0		
J2339.6000			6.0		
J4005.1601		**CAMLOG® Abutment screw**	3.3/3.8/4.3	Thread M 1.6	Titanium alloy
J4005.2001			5.0/6.0	Thread M 2.0	
J4006.1601		**CAMLOG® Lab screw**	3.3/3.8/4.3	Thread M 1.6	Titanium alloy
J4006.2001			5.0/6.0	Thread M 2.0	
K3010.3300		**CAMLOG® Lab analog**	3.3		Titanium alloy
K3010.3800			3.8		
K3010.4300			4.3		
K3010.5000			5.0		
K3010.6000			6.0		

CONELOG® TEMPORARY ABUTMENTS AND COMPONENTS

ART. NO.		ARTICLE	IMPLANT Ø IN MM	DIMENSIONS IN MM	MATERIAL
C2239.3300		**CONELOG® Temporary abutment, crown, titanium alloy** incl. CONELOG® Abutment screw	3.3		Titanium alloy
C2239.3800			3.8		
C2239.4300			4.3		
C2239.5000			5.0		
C2339.3300		**CONELOG® Temporary abutment, bridge, titanium alloy** incl. CONELOG® Abutment screw	3.3		Titanium alloy
C2339.3800			3.8		
C2339.4300			4.3		
C2339.5000			5.0		
C4005.1601		**CONELOG® Abutment screw**	3.3/3.8/4.3	Thread M 1.6	Titanium alloy
C4005.2001			5.0	Thread M 2.0	
C4006.1601		**CONELOG® Lab screw**	3.3/3.8/4.3	Thread M 1.6	Titanium alloy
C4006.2001			5.0	Thread M 2.0	
C3010.3300		**CONELOG® Lab analog**	3.3		Titanium alloy
C3010.3800			3.8		
C3010.4300			4.3		
C3010.5000			5.0		

INSTRUMENTS

ART. NO.		ARTICLE	IMPLANT Ø IN MM	DIMENSIONS IN MM	MATERIAL
J5317.0510		**Screwdriver, hex,** extra short, manual/wrench		14.5	Stainless steel
J5317.0501		**Screwdriver, hex,** short, manual/wrench		22.5	
J5317.0502		**Screwdriver, hex,** long, manual/wrench		30.3	
J5317.0504		**Screwdriver, hex,** short, ISO shaft		18.0	
J5317.0503		**Screwdriver, hex,** long, ISO shaft		26.0	
C5300.1601		**CONELOG® Disconnector** for CONELOG® Abutments	3.3/3.8/4.3	Thread M 1.6	Stainless steel
C5300.2001			5.0	Thread M 2.0	

ART. NO.		ARTICLE	MATERIAL
J5320.1030		**Torque wrench** with continuous torque adjustment up to max. 30 Ncm	Stainless steel
J3709.0010		**CAMLOG® Universal holder,** incl. 2 CAMLOG® Lab screws (thread M 1.6 and M 2.0) and 1 CAMLOG® Abutment collet each for implant-Ø 3.3/3.8/4.3/5.0/6.0 mm	Titanium alloy/ Stainless steel
C3709.0010		**CONELOG® Universal holder,** incl. 2 CONELOG® Lab screws (thread M 1.6 and M 2.0) and 1 CONELOG® Abutment collet each for implant-Ø 3.3/3.8/4.3/5.0 mm	Titanium alloy/ Stainless steel
J3709.0015		**Universal holder**	Stainless steel

ART. NO.		ARTICLE	IMPLANT Ø IN MM	MATERIAL
J3709.3300		**CAMLOG® Abutment collets for universal holder**	3.3	Titanium alloy
J3709.3800			3.8	
J3709.4300			4.3	
J3709.5000			5.0	
J3709.6000			6.0	
C3709.3300		**CONELOG® Abutment collets for universal holder**	3.3	Titanium alloy
C3709.3800			3.8	
C3709.4300			4.3	
C3709.5000			5.0	

MATERIAL

TITANIUM ALLOY Ti6Al4V ELI

PROPERTIES (ASTM F136):

Chemical structure (in %):		Al	5.5–6.5
		V	3.5–4.5
		Fe	≤ 0.25
		C	≤ 0.08
		N	≤ 0.05
		O	≤ 0.13
		H	≤ 0.012
		Ti	Rest
Mechanical properties:		Tensile strength	≥ 860 MPa
		Elongation at break	≥ 10 %

FURTHER DOCUMENTATION

Further information on the products is available in the following documentations:

- CAMLOG® and CONELOG® Product catalog
- Work instructions
- Instruction manuals
- Preparation instructions

The documents are available from the local CAMLOG representative.
See also:
http://ifu.camlog.com
www.camlog.com

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HEADQUARTERS
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