

CERAMIC EXCELLENCE

CERALOG<sup>®</sup>  
SYSTEM

INNOVATION  ON



a perfect fit™

camlog

# TWO-PIECE

## REVERSIBLE

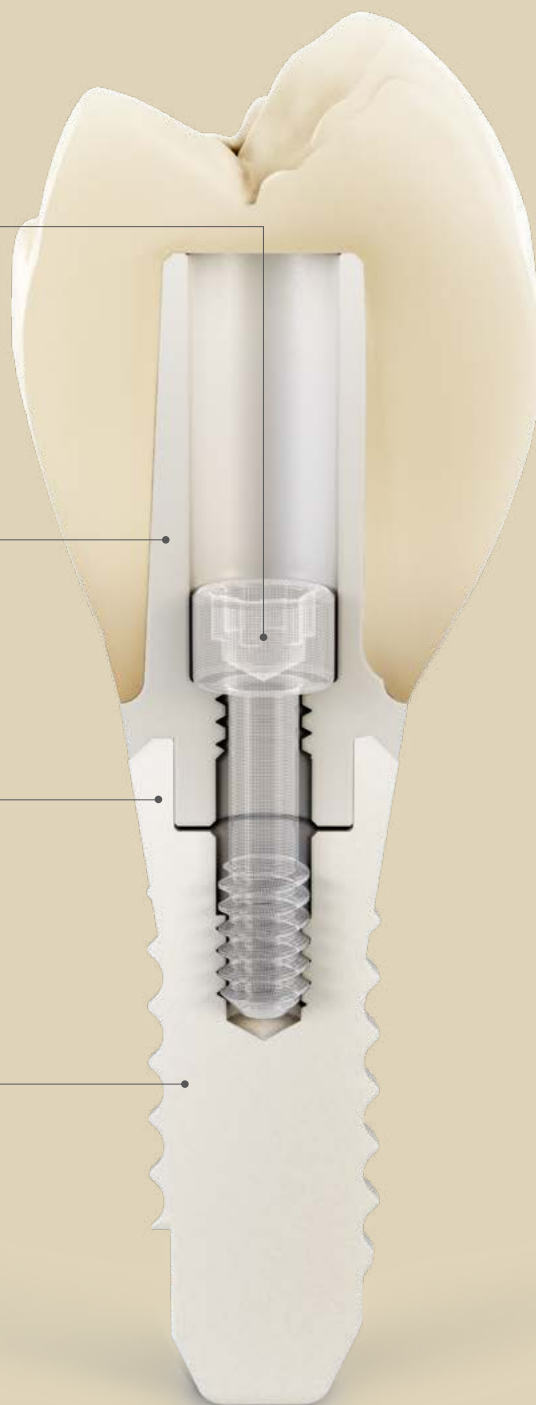
With the CERALOG Hexalobe implant, reversible prosthetics solutions are possible – cemented or as screw-retained crowns.

## INNOVATIVE ABUTMENT

The innovative PEKK high performance polymer abutment is ductile and offers an excellent biological seal. In addition, it has damping properties and reduces the stress concentration on the implant.

## DUAL SURFACE

The dual surface texture of CERALOG® is unique for achieving optimum soft tissue adaptation and the right level of roughness for optimized osseointegration. This is possible because of the high-tech manufacturing process of Ceramic Injection Molding (CIM).



## WELCOME TO A NEW CERAMICS ERA.

The demand for highly esthetic natural prosthetics increases from day to day. The trend favors ceramic implant solutions with the highest level of biocompatibility. The high soft tissue compatibility of zirconia is generally acknowledged. The **CERALOG®** Implant System is a mature system and has been in clinical use for years. The implants offer a high level of predictability and provide exceptional esthetic properties.

In 2006, the Swiss company **AXIS biodental SA** already laid the research for the development of high performance zirconia implants in conjunction with Ceramic Injection Molding (CIM).

The first clinical studies were conducted in 2007 and already used the current material composition and surface texture.

Commercialisation commenced with the single piece Monobloc implant. The two-piece Hexalobe implant has been used successfully in the present configuration since early 2012.

Ceramic implants will establish themselves on the implant market, not only for medically relevant reasons, but above all under highly esthetic aspects. Osseointegration is predictable due to high-tech manufacturing processes and innovative surface textures.

## TWO-PIECE FOR INNOVATIVE PROSTHETIC SOLUTIONS.

The CERALOG® Hexalobe implant allows reversible screw-retained prosthetic solutions. This overcomes a decisive limitation of many existing ceramic systems. As an alternative option to the titanium screw, CAMLOG offers a gold abutment screw for holistic oriented patients. Furthermore, the single piece CERALOG® Monobloc implant is available as a purely ceramic non-screw-retained variant

The implant geometry and the thread design support the high primary stability of the CERALOG® Implants.

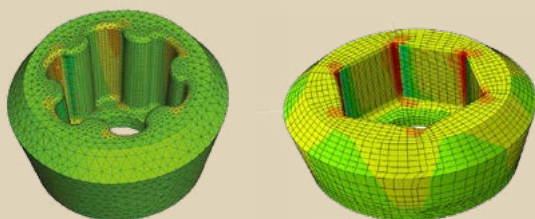
The CERALOG® Implants are conceived for transgingival healing. However, the Hexalobe implants can be placed either epicrestally or supracrestally and healing can be performed both submerged as well as open.



## HEXALOBE: AN OPTIMAL CONNECTION FOR CERAMIC IMPLANTS.

Hexalobe is the ideal implant-abutment connection. It was developed and optimized specifically for the zirconium dioxide implant. The perfect force transmission is introduced optimally into the implant. The design offers high rotational stability and precise manufacturing ensures a long-term stable outcome of the restoration.

- High level of user safety thanks to the connection design
- High positioning precision due to minimal rotational freedom
- No transfer key for abutments required
- Ceramic-compatible force transfer when inserting the CERALOG® Hexalobe implant

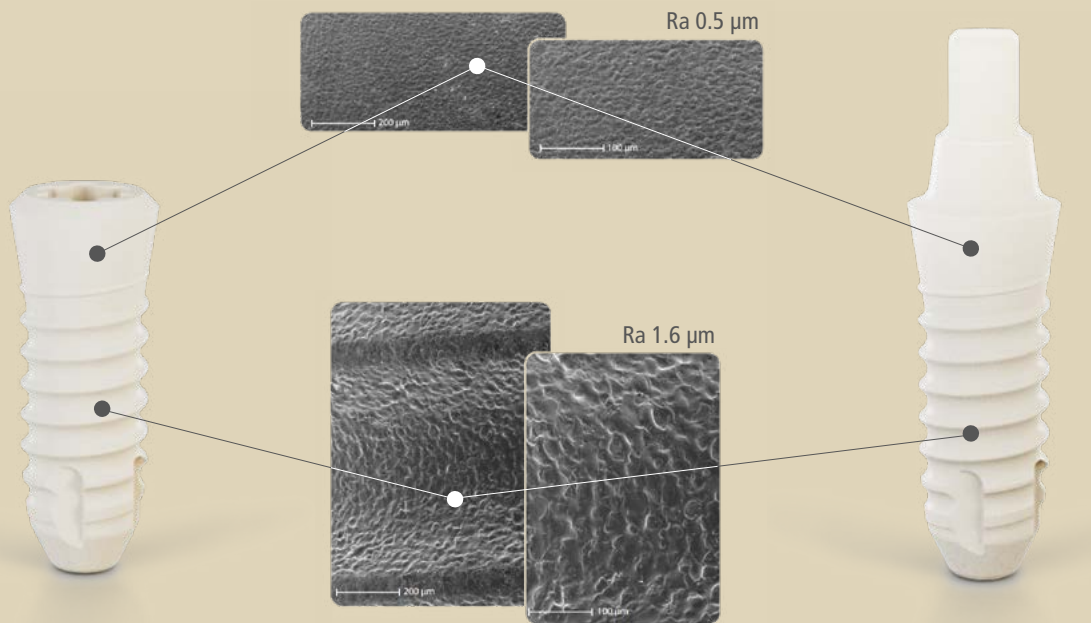


◀ Compared with hexagonal connections, the Hexalobe connection results in a major reduction in load levels during torque application. As a result, there is a significant increase in the maximum torque that can be applied.

# DUAL SURFACE STRUCTURE: OSSEOINTEGRATION AND SOFT TISSUE COMPATIBILITY.

**CERALOG®** Implants have a dual surface structure to promote tissue integration. The neck area of the implant has a lower degree of roughness which optimizes the apposition of soft tissue. The enossal area is

provided with a micro-rough structure (Ra value of 1.6  $\mu\text{m}$ ) to enable targeted apposition of the bone cells. Osseointegration is comparable with that of the CAMLOG Promote® surface.



**CERALOG® Hexalobe**  
Diameter: 4.0 mm  
Lengths: 8, 10, 12 mm

**CERALOG® Monobloc**  
Diameter: 4.0 mm  
Lengths: 8, 10, 12 mm

## CERAMIC INJECTION MOLDING (CIM): FLAWLESS WITHOUT POST-PROCESSING.

The unique surface texture of the **CERALOG®** Implants is the result of the manufacturing process. In Ceramic Injection Molding (CIM), both the outer geometry as well as the surface structure are already created in a mold before the sintering and HIP process (Hot Isostatic Pressing). No abrasive treatment of the zirconium dioxide is necessary during this process. Only few companies worldwide are capable of managing this high-tech manufacturing process.

CERAMIC  
INJECTION MOLDING  
a clear advantage

# CERAMIC EXCELLENCE PARTNER PROGRAM FOR YOUR SUCCESS.

The handling of ceramic implants requires specific know-how. Therefore you will be familiarized with the **CERALOG®** Implant System and its application by our **CERALOG®** product specialists. In especially developed training courses you will receive the necessary knowledge for using the **CERALOG®** Ceramic Implant System. Following accompanied trial surgery you will receive the authorization for using the system as part of the CERAMIC EXCELLENCE PARTNER program.

You will receive a high quality certificate which authorizes you to insert the **CERALOG®** Implants from CAMLOG.

We expect considerable demand for appointments, and would therefore ask you to schedule your appointment as quickly as possible



## 100% QUALITY CONTROL – CERALOG STANDARD.

**CERALOG®** Implants have proven themselves in practice: they osseointegrate like a titanium implant and promote good soft tissue adaptation. By that they are enabling natural mucosal and tooth esthetics. The product quality and safety is underlined by the manufacturer's convincing statement that every implant is subjected to an extensive load test and dimensional check prior to being packaged.



### CERALOG® IMPLANT SYSTEM – FACTS AND FIGURES AT A GLANCE

The white paper offers you a good overview on the scientific background of the **CERALOG®** Implant System. The most important information on the various materials such as PEEK vs. PEKK, zirconia, the CIM manufacturing process, case studies with the reversible, screw-retained **CERALOG®** Hexalobe abutments and much more is summarized in form of abstracts. If you are interested, we would be pleased to send you a copy of the white paper.



# REVERSIBLE

## AESTHETIC

The ivory color, which is close to the natural tooth color and the properties of zirconia support high aesthetics results.



## CERLOG® MONOBLOC

single piece for purely ceramic restorations

## CERLOG® HEXALOBE

two-piece for reversible, screw-retained restorations

## IDEAL CONNECTION

Hexalobe – the ideal implant-abutment connection for ceramic implants. The torque transmission, which is transmitted tangentially to the implant allows a much higher torque than for example the one with an hexagonal connection.

**Documentation with kind permission of Dr. Karl-Ludwig Ackermann**



The form drill, last drill according to the surgical protocol for preparing the extraction socket.



Manual insertion of the CERALOG® Hexalobe implant.



For healing, the cover cap is snapped into the implant.



CERALOG® Hexalobe implant and cover cap in situ immediately after insertion.



Four months after implantation, the CERALOG® PEKK abutment was screw-retained with the titanium screw.



The all-zirconium oxide crown was inserted adhesively following a functional check.

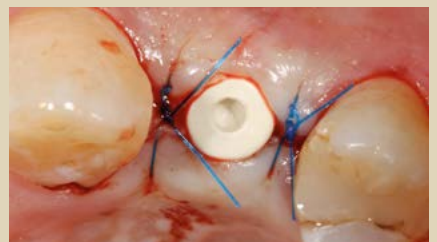
**Documentation with kind permission of Dr. Frederic Hermann**



Initial clinical situation four months after tooth extraction (FDI #24).



Insertion of the implant with supracrestal positioning of the prosthetic shoulder (1.5 mm).



Adaptive wound closure on the PEEK cover cap.



Hybrid abutment restoration – buccally veneered zirconium oxide crown bonded with PEEK abutment.



Insertion of the definitive restoration on a PEKK abutment four months after healing.



Definitive restoration after one year of loading.

**STUDIES**

Cattani-Lorente M, Scherrer SS, Durual S, Sanon C, Douillard T, Gremillard L, Chevalier J, Wiskott A. Effect of different surface treatments on the hydrothermal degradation of a 3Y-TZP ceramic for dental implants. *Dental Materials* 2014; 30:1136-46

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Kokovic V, Rahman MM, Rahman B, Tattan M. Assessment of implant stability of two-piece zirconium dioxide implants using the resonance frequency analysis: A pilot study. *Int J Experiment Dent Sci* 2015;4(2):87-94.

Tattan M, Kokovic V. Titanium or Zirconia?, clinical assessment of primary implant stability. 8th Dental-Facial Cosmetic int'l Conference 2016, Dubai UAE.



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