

COHO Biomedical Technology

## Applying the uniqueness of zirconia

COHO offers various one- and two-piece ZiBone systems, as well as the Zircasso implant system with different screw patterns and abutment designs for the dentist to apply depending on the patient condition. There are three different sizes (3.6/4.0/5.0 mm) with five different lengths (8/10/11.5/13/14.5 mm) in the one-piece ZiBone system. Abutments with different heights and angles are also available for the two-piece system. Novel implant surface processing technology is continuously developed, adopting the plasma film treatment to enhance the integration efficiency of the implant.

The design and functionality for Zircasso have been developed over a 10-year-period to reach the results in functionality and aesthetics desired for a new dental implant. The unique design was developed to reduce the most commonly known complications and to maintain and improve the good characteristics from previous dental implants. Zircasso is a concept in which all stages and parts have been included in the development to achieve the highest possible results in surgery, prosthetics, dental technology and, in particular, patient satisfaction. The implants have a modern design suitable for a digital flow in the clinic.

With more than 20 years of experience in medical device production, design and development, the COHO R&D team continues



developing surgical tools for dental implants. In the meantime, we have applied the uniqueness of the zirconia material to improve the convenience and safety of surgery.

**COHO Biomedical Technology Co., Ltd.**  
**No. 21 Dafeng Street, Luzhu District**  
**Taoyuan City 33860, Taiwan**  
**www.zibone.com**

Straumann

## PURE Ceramic Implant System

Nothing is more winning than a light-hearted and happy smile. With the PURE Ceramic Implant System even very demanding patients can smile with confidence according to the principle "Discover natural PURE white. Love your smile."

With this implant system, dentists can grant their patients the best aesthetic, natural and solid treatment. Patients will benefit from all the highly aesthetic advantages of a natural ceramic implant—ivory-coloured like a natural tooth root and even in cases of thin gingiva biotypes not shining through. No compromises on aesthetics, reliability or the most natural choice of material are necessary. Further they can rely on high-performance zirconia ceramic material being even stronger than the gold standard, grade 4 titanium implants.

The Straumann® PURE Ceramic Implant System is the result of more than 12 years of relentless research and development until the ceramic implants complied with the company's premium quality standards. Swiss quality and precision, strength, clinical success and flexible treatment protocols are combined in an innovative solution that helps dentists meet the needs of their patients. Find out more at: [pure.straumann.com](http://pure.straumann.com).



**Institut Straumann AG**  
**Peter Merian-Weg 12**  
**4052 Basel, Switzerland**  
**www.straumann.com**



## Z-Systems

### World's first 100 % ceramic bone level implant to be launched

Z-Systems is about to launch the world's first 100% ceramic screw-retained two-piece bone level implant: The Z5-Bone Level (Z5-BL). The Swiss based company specialises in manufacturing ceramic dental implants made from zirconium oxide, with implants being available worldwide.

The Z5-BL is the first full ceramic screw-retained two-piece implant. With its ceramic screw, the implant offers practitioners a full ceramic two-piece screwed implant-abutment connection. The implant development makes use of the enossal shape of its tissue-level predecessors: Since 2004, almost 60,000 tissue-level implants produced by Z-Systems have delivered great re-

sults in osseointegration and stability. Moreover, the new implant features the company's proprietary, patented and proven SLM® surface. The implant will be released with a variety of prosthetic options and next-generation surgical kit. In addition to the new ceramic screw, the Z5-BL will also be available with a titanium screw option.

**Z-Systems AG**  
**Werkhofstr. 5**  
**4702 Oensingen, Switzerland**  
**www.zsystems.com**

## CAMLOG

### Metal-free aesthetic restorations from implant to crown

CAMLOG's full range of ceramic implants and prosthetic components supports metal-free aesthetic restorations from the implant to the crown. CERALOG implants offer high predictability and exceptional aesthetic properties.

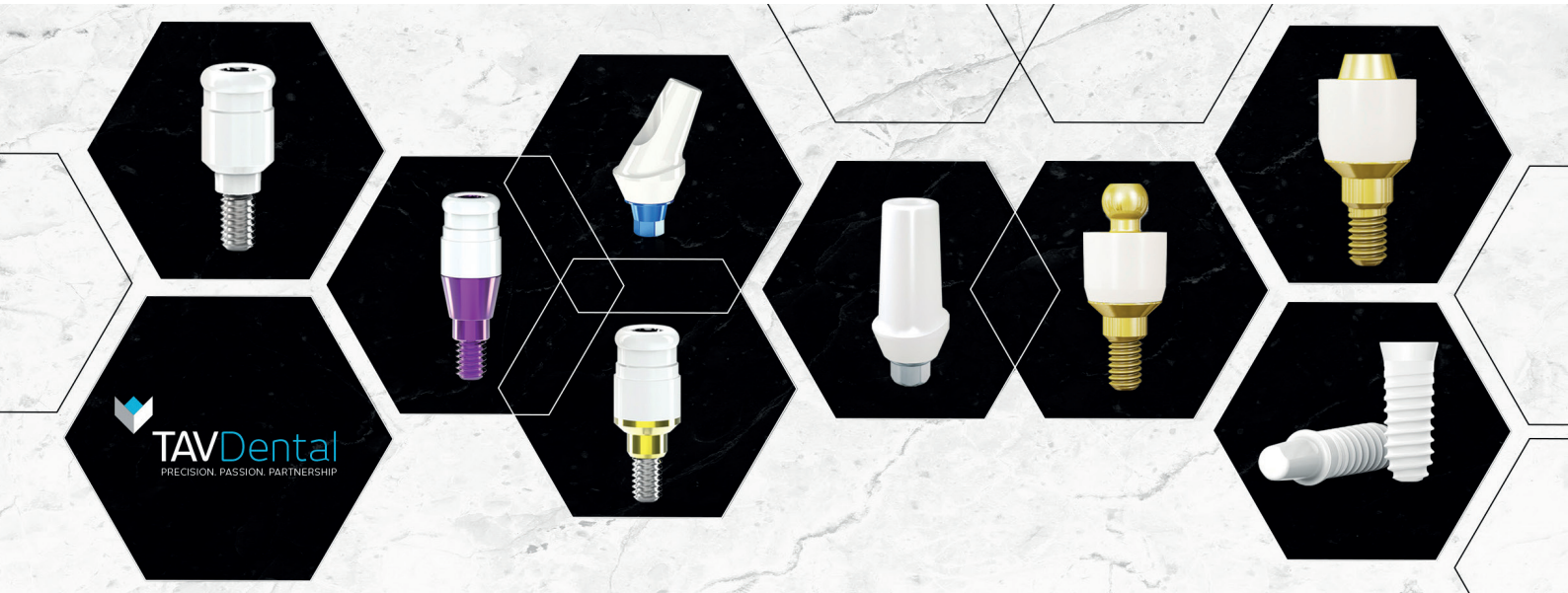
The range includes ivory-coloured one- and two-piece zirconia implants and reversible screw-retained abutments. In the application they are close to the common standard of titanium implants. Outstanding features of the system are the biocompatibility of the high-performance material, the reversibility of the screw-retained prosthetic components and the achievement of highly aesthetic restorations. CAMLOG has established a close interface to DEDICAM and thus to



individual CAD/CAM prosthetic solutions. The expansion of the product range opens new patient-oriented treatment options for clinicians. Once again emphasizing the company's innovative strength.

**CAMLOG Biotechnologies AG**  
**Margarethenstr. 38**  
**4053 Basel, Switzerland**  
**www.camlog.com**





TAV Dental

## State-of-the-art zirconia dental products

Zirconia healing caps and locators, multi-units with zirconia ring and last but not least zirconia implants are just some of the special products TAV Dental is manufacturing using the advanced ceramic injection technology. The passion behind developing zirconia products for dental implantology is to provide patients with products which are much healthier for their body along with the advantage of uncompromising aesthetic results.

TAV Dental zirconia products are designed by a highly professional dedicated team and manufactured using high-end ceramic injection

molding technology, thus resulting in state-of-the-art products to improve the patient's quality of life.

The team vision is to redefine, better than ever, the quality of zirconia dental products and its performances and to make this premium zirconia line common worldwide.

**TAV Dental**  
**Shlomi, Israel**  
[www.tavdental.com](http://www.tavdental.com)

Dentalpoint

## Bolt-in-tube—the simple and strong ceramic connection

ZERAMEX® XT abutments are screw retained. The key component of the connection is the VICARBO® screw which acts as a bolt by firmly fixing the abutment to the implant. It is a fitting screw and safely absorbs occlusal forces. Thanks to its soft surface, the screw precisely conforms to the thread profile of the ceramic implant upon tightening.

The abutments are available in straight and angular versions. All abutments are fitted with a “four merlon”-platform which offers four positioning options.



The VICARBO® screw seals the implant hole, and thus prevents the exchange of potentially bacteriologically contaminated liquids between implant and oral cavity caused by micromovement. The ZERAMEX® XT implant offers high prosthetic flexibility as it is placed supracrestally with a variable placement depth ranging from 0.6 to 1.6 mm.

**Dentalpoint AG**  
**Bodenackerstr. 5**  
**8957 Spreitenbach**  
**Switzerland**  
[www.zeramex.com](http://www.zeramex.com)

SDS Swiss Dental Solutions

## Ceramic implant forms with osteogenic functionality

While SDS ceramic implants were being applied routinely at the Swiss Biohealth Clinic of Dr Volz, the experience and knowledge that were gained there led to the development of a new kind of implant. The improved biocompatibility of zirconium dioxide implants, together with the bone and soft-tissue growth associated with it have provided new options for implantation wherever pronounced oval alveoli need to be treated, or multiple rooted teeth must be replaced. To this end, the implant ranges “oval” and “balcony” were developed, available in different diameters and lengths, both as single pieces and in two parts, and which were able to optimally close the alveoli, especially with emergency implantations. The new SDS “sinus implants” (Fig.) were developed specifically for sinus lifting. Due to the increased biocompatibility of ZrO<sub>2</sub>, bone growth is



also optimally exploited for this indication. In the apical area of the sinus implants, a plate is introduced, which on the one hand spares damage to the Schneiderian membrane upon sinus lifting, and on the other forms a large cavity under the plate due to an umbrella effect. The actual implant serves as a tent pole in this cavity, which creates optimal conditions for inward bleeding and the bone regeneration which results from this. Bone graft material is not necessary in almost all cases. The sinus implants are also available in various diameters and lengths.

**SDS Swiss Dental Solutions AG**  
**Konstanzerstr. 11**  
**8280 Kreuzlingen, Switzerland**  
**www.swissdentalsolutions.com**

Champions-Implants

## Ceramic implant now available



In releasing its new ceramic implants BioWin!, available as both one-piece and two-piece versions, Champions-Implants is breaking new ground. Without having a screw connecting the implant body and the abutment, the two-piece option is entirely metal-free. Since the glass fibre abutment is being glued, there is no space that is vulnerable to parapatogenic germs or bacteria, as it might happen in two-piece implant systems. The roughness of the surface is created using a one-of-a-kind patented process resulting in a faster osseointegration. Scientific studies (Prof. Becker, University Düsseldorf, among others) find osseointegration to be at 95.8 per cent. The implants are available in three different lengths (9, 11, 13 mm) and diameters (4.1, 4.5, 5 mm). Moreover, there is a free and user-friendly software available, with which individual implants having individual emergence profiles can be developed. BioWin! implants can be inserted using either a minimally invasive approach or a classic full-flap one.

**Champions-Implants GmbH**  
**Champions Platz 1**  
**55237 Flonheim, Germany**  
**www.championsimplants.com**

WITAR

## Biocompatible ceramic implant

Metal-free, biocompatible and aesthetic: Ceramic implants have gained popularity among dentists and patients. Building upon this trend, WITAR offers a new AWI implant system for transgingival healing. With this, the company promises an implant treatment that is safe, cost-efficient and simple. The two-piece system that has been developed and patented recently is made from Y-TZP ceramic and offers a reliable and easy handling. Treatment steps had been optimised for an increased safety and biocompatibility. At the same time, treatment costs and time could be reduced.

The implant system consists of nine two-piece ceramic implants that are available in three different diameters (3.9, 4.5, 5 mm) and lengths (8, 10, 12 mm). With this, the system is indicated for all bone classes. Additionally, the one-piece AWI implant is available in two sizes (10, 12 mm) with a diameter of 3.9 mm and can be used in the anterior mandible. Four full-ceramic abutments of which two are straight and two are angled by 15 degrees, belong to the system as well. Furthermore, the system includes a sterilisation box, surgical tray with milling machines made from ATZ high-performance ceramics, and turning tools.

**WITAR Consulting GmbH**  
**Rodenkirchener Straße 148**  
**50997 Cologne, Germany**  
**www.witar.de**

