

Dentalpoint

The aesthetic implant



Zirconia, the dental material of the future, the two-piece design of the implant, the unique implant–abutment connection, the conventional and digital workflow, the outstanding clinical results, and the know-how from 17 years of research and development are the pillars of success of the Swiss ceramic implant system ZerameX XT. The heart of the implant–abutment connection is the VICARBO screw made of carbon re-reinforced high-performance PEEK. The principle: the implant made

of zirconium dioxide absorbs the compressive forces, while the VICARBO screw counteracts tensile and bending forces. The design of the external thread ensures high primary stability and the microrough and hydrophilic Zerafil surface demonstrates convincing osseointegration with a success rate of 98%. Studies show decisive advantages of zirconium dioxide over other materials: it has lower plaque accumulation, lower bacterial adhesion as well as reduced thickness of the accumulated biofilm. It also contributes to better blood circulation in the peri-implant soft tissue which results in healthier gingiva and improved aesthetics.

Dentalpoint AG, Switzerland
www.zeramex.com

ZerameX XT

Straumann

Ceramic Healing Abutments: the first step to harmonious soft tissue healing

These healing abutments for Straumann bone level implants enable aesthetics from the day of surgery and offer favourable conditions for soft-tissue attachment, thereby supporting a healthy peri-implant environment. Their well-proven zirconia material helps surgeons and prosthodontists who are looking for less plaque attachment (smoother surface compared to titanium) and they support soft-tissue healing from the day of surgery. In general, more favourable soft-tissue attachment around zirconia than around titanium can be observed, with blood circulation similar to that around a natural tooth, as well as a more mature and pronounced soft-tissue integration. This comes with an ease of use entailing aspiration security thanks to the integrated screw and a colour-coding to clearly identify the corresponding prosthetic platform.

Institut Straumann AG
 Switzerland
www.straumann.com



Zircon Medical Management

The two-piece zirconia implant with long-term studies

Patent™ has eliminated the drawbacks of conventional two-piece zirconia implants. Its innovative prosthetic concept perfectly complements the material properties of zirconia: the cemented glass fibre post, having a dentine-like modulus of elasticity, is able to attenuate masticatory forces and transfer them to the implant in favourable way, ensuring reliable long-term function. Additionally, the patented production process, in which all surface-machining steps are completed before sintering, creates a high endosteal surface roughness (Ra 5,7 µm) that is essential for fast and predictable osseointegration. During the subsequent sintering, any process-induced microcracks are eliminated, maximising fracture resistance. The success of the Patent™ Concept has been proven by science: in the first long-term study on two-piece zirconia implants, integrated Patent™ Implants showed no fractures, healthy soft tissues, stable bone levels, and no signs of peri-implantitis after almost a decade.¹ In a preclinical study they demonstrated bone-to-implant contact (BIC) of over 70% after just four weeks of healing, outperforming

all implants investigated in similar studies thus far in terms of osseointegration speed.²

**Zircon Medical Management AG,
Switzerland**
www.mypatent.com



Literature

1. Brunello G, Rauch N, Becker K, Hakimi AR, Schwarz F, Becker J. Two-piece zirconia implants in the posterior mandible and maxilla: A cohort study with a follow-up period of 9 years. *Clin Oral Implants Res.* 2022 Dec;33(12):1233-1244. doi: 10.1111/clr.14005. Epub 2022 Oct 31. PMID: 36184914.
2. Glauser R, Schupbach P. Early bone formation around immediately placed two-piece tissue-level zirconia implants with a modified surface: an experimental study in the miniature pig mandible. *Int J Implant Dent.* 2022 Sep 14;8(1):37. doi: 10.1186/s40729-022-00437-z. PMID: 36103094; PMCID: PMC9474793.

breident medical

High primary stability and aesthetic appearance

The whiteSKY implant system from breident is among the best-documented zirconia implant systems worldwide. It has not only demonstrated excellent osseointegration and longevity in numerous studies but has also proven its efficacy in practice. In fact, the longevity of whiteSKY implants is comparable to that of titanium implants. The whiteSKY implant system offers two different implant types: the whiteSKY Tissue Line and the whiteSKY Alveo Line. The narrow whiteSKY Tissue Line implant provides sufficient space for both the hard and soft tissue and ensures an aesthetically pleasing appearance with its slightly tapered shape in the sulcus area, transitioning from the gingiva to the implant crown. The whiteSKY Alveo Line, on the other hand, is ideal for immediate loading as it fills the extraction socket. At the same time, it provides the treating doctor with the possibility to individualise the implant according to the specific requirements of the clinical case.

Optimal conditions for soft tissue attachment and high mechanical stability

Both the Alveo and Tissue Line implants of the whiteSKY system offer optimal conditions for soft tissue attachment due to their specially designed sulcus surface. The whiteSKY implants are made of hardened zirconia and are one-piece, which gives them particularly high mechanical stability. Thanks to the improved thread design and bone-quality-oriented surgical protocol, the whiteSKY implants achieve high primary stability, making them ideal for immediate loading. Studies have shown that immediate implant placement can improve the bone-implant contact by more than 50 per cent.

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