Zircon Medical Management

Master of zirconia: The Patent™ Dental Implant System

While other ceramic implant manufacturers struggle with early osseointegration failure and high fracture rates, Zircon Medical Management, the manufacturer of the Patent™ Dental Implant System, together with leading scientists and a team of highly experienced material experts, has succeeded in mastering the complex process of manufacturing zirconia implants in a unique way—employing a process that has been protected by 14 patents. All surface-machining steps are carried out prior to sintering. Through the proprietary manufacturing process, a surface roughness is achieved (6 µm) that is up to five times rougher than conventional zirconia implant surfaces. In the subsequent sintering stage, potential process-related microcracks are eliminated. Moreover, the design of the Patent™ Dental Implant System does not merely mimic the design of titanium implants. Rather, its design was purposefully engineered to perfectly complement the material characteristics of zirconia. The result is a true tissue-level zirconia implant that is unparalleled in terms of fracture resistance, osseointegration and long-term stability. In addition, the entire manufacturing process—from raw material assembly to milling and final packaging—takes place exclusively at two proprietary production sites in Germany. Therefore, Zircon Medical Management is able to guarantee Patent™ users absolute quality control. Choose long-term stability. Choose reliable osseointegration. Choose Patent™ Implants from Zircon Medical Management, the master of zirconia.

The two-piece Patent™ Dental Implant System is entirely metal-free. It consists of the implant itself and an incredibly strong yet flexible glass fibre abutment, which, having dentine-like properties, attenuates the masticatory forces within the context of definitive restoration.

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Zeramex XT

Unique implant–abutment connection

The material of the future, zirconium dioxide, 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 what make the Zeramex XT ceramic implant system so successful.
The heart of the implant–abutment connection is the VICARBO® screw made of carbon fibre-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 microstructured and hydrophilic Zerafil surface demonstrates convincing osseointegration with a success rate of 98%.[1]
Recent studies show several advantages of zirconium dioxide over other materials: it has lower plaque accumulation as well as lower bacterial adhesion and contributes to better blood circulation in the soft tissue.

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ClaroNav

Introducing Navident 4: Why do I need one?

Are you constantly looking for ways to elevate and differentiate your practice from mainstream dental providers? We know the challenges you face when you are aiming for the highest levels of performance and results—both functionally and aesthetically.

Navident provides breakthrough surgical navigation with advanced function and form. From more efficient single implant replacements to a fully edentulous rehabilitation workflow, Navident is poised to revolutionise and differentiate your practice: Conduct high-precision implant treatments quickly and confidently. Reliably detect important anatomical structures. Locate root canals and other fine anatomical structures with precision and efficiency. High-precision navigation of your piezotome enables accurate assessment and predictable outcomes.

The new Navident system is equipped not only with next-generation, 3X resolution camera technology, but also provides everything from ergonomic design to reimagined touchscreen interface, and is created to provide smooth workflow integration for clinicians at every stage of their career. Precision dentistry for the precision dentist.

Navident 4 comes in cart-based or new wall or ceiling mount configurations for ultimate versatility. Navident 4 is now available at a special pre-order price and shall be showcased at the EAO Congress in Geneva (booth G10).

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Z-SYSTEMS

Z-SYSTEMS Ceramic Implants—100% Ceramic, 100% Swiss

Ceramic implants have been at the cutting-edge of dental implant technology for over a decade, and are becoming increasingly popular with patients and practitioners worldwide. As a market leader, Z-SYSTEMS has taken another leap forward with its innovative Z5-BL (Bone Level) and soon-to-be-released Z5-TL (Tissue Level): the world's first two-part, screw-retained implants made entirely of ceramic. For the first time, completely submerged healing is now also possible with ceramic implants. The Z5-BL's advantages are evident in its beautiful bone level design and a unique variety of abutments. A high-precision, extremely stable conical connection between the abutment and the implant makes it possible to use this material even for the occlusal screw. Many practitioners also like to work with tissue level implants—especially in biological dentistry. In recognising these clinical demands, Z-SYSTEMS is rapidly following the release of the Z5-BL with an equally-revolutionary Z5-TL. These latest releases build on the proven platform of Z-SYSTEMS heritage line: the Z5m, Z5m(t) and Z5c. Each Z-SYSTEMS product features the technology's unique, patented laser surface for outstanding osseointegration. The company's proprietary manufacturing process has produced a top-quality implant family renowned for its great durability. In addition to fixed restorations, removable locator-like abutments are also possible on all two-piece Z-SYSTEMS implants. Available lengths are 8, 10 and 12 mm and diameters are 3.6, 4.0 and 5.0 mm.

Z-SYSTEMS Ceramic Implants
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