

Zeramex XT—an outlook for 2025: market growth, further clinical studies and popular event formats

The demand for zirconia implants is increasing year on year—as is the interest in the two-piece zirconia implant system Zeramex XT. CeramTec Schweiz GmbH anticipates market growth and continues to invest in the expansion of production capacities, clinical studies and training programmes.

The year 2025 will see even more scientific evidence for the Zeramex XT two-piece ATZ zirconia implant system as well as more exciting event formats that are very popular with Zeramex users. In addition to several retrospective studies on Zeramex XT led by Dr Dr Thomas Mehnert, Dr Elisabeth Jacobi-Gresser, and Dr Thomas Franke and to be published in 2025, several dates for the “Zeramex Meet & Learn” event series at the company’s site in Spreitenbach (Switzerland) are also being planned.

Referral events with presentations and case studies on Zeramex XT including surgery, prosthetics and dental technology will be also continued in 2025.

The 3rd European Congress for Ceramic Implantology of the European Society for Ceramic Implantology (ESCI) supported by CeramTec Switzerland (Company Partner), will be the further highlight of the year in the field of ceramic implantology. Pre-registration for the congress is

already open and can be made via e-mail to info@esci-online.com. Please find more details about the products, workshops, and events at www.zeramex.com.



CeramTec Schweiz GmbH
Switzerland
www.zeramex.com

The only two-piece zirconia implant with long-term studies

Minimum risk of fracture and predictable osseointegration—the Patent™ Dental Implant System has solved the challenges of conventional zirconia implants. Only its patented production process creates the surface roughness needed for fast and predictable osseointegration. In the last step of this revolutionary manufacturing

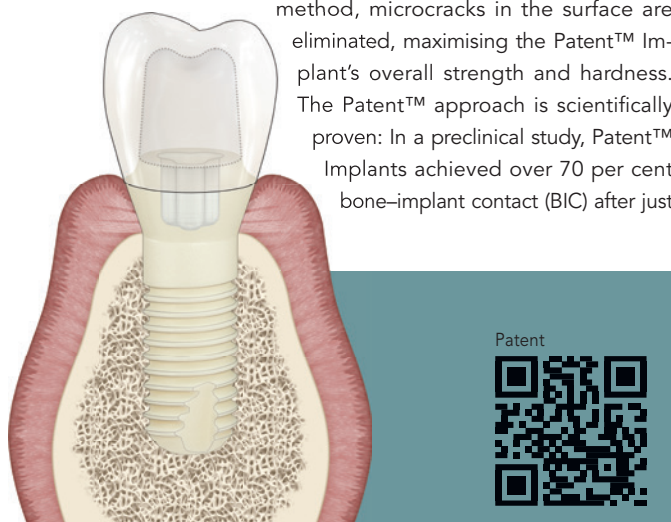
method, microcracks in the surface are eliminated, maximising the Patent™ Implant’s overall strength and hardness. The Patent™ approach is scientifically proven: In a preclinical study, Patent™ Implants achieved over 70 per cent bone-implant contact (BIC) after just

four weeks of healing, outperforming all other dental implants investigated in similar studies in terms of bone healing speed and success.¹ Furthermore, long-term studies conducted by leading universities in Germany and Austria evaluated the performance of Patent™ over nine and up to 12 years, finding no instances of implant fractures or peri-implantitis—even in compromised patients with risk factors such as systemic disease and/or chronic inflammations as well as smoking.^{2,3} Learn more at www.mypatent.com.

Patent™ Dental Implant System
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Literature

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3. Karapatakis S, Vegh D, Payer M, Fahrenholz H, Antonoglou GN. Clinical performance of two-piece zirconia dental implants after 5 and up to 12 years. *Int J Oral Maxillofac Implants.* 2023;38(6):1105–1114. doi:10.11607/jomi.10284



ZiBone zirconia medical device: revolutionising dental implants for straight smiles

With our state-of-the-art products, we aim to equip dentists with the tools they need to create beautiful, natural-looking smiles for their patients. We will delve into the key features and benefits of our products, and how they can enhance your practice and patient outcomes.

ZiBone zirconia implants represent the pinnacle of dental implant technology. Crafted with precision and passion, our implants boast superior biocompatibility, promoting seamless integration with the jawbone. The aesthetic appeal of zirconia perfectly complements the natural dentition, creating a lifelike appearance that leaves patients with renewed confidence in their smiles. ZiBone zirconia implants are engineered to offer outstanding mechanical properties, ensuring lasting durability and stability, setting new standards for implant success rates.

Biocompatibility: Zirconia's biocompatibility reduces the risk of allergic reactions and inflammation, fostering a healthy healing process.

Optimal osseointegration: The advanced design of ZiBone zirconia implants with Ra 0.6µm surface treatment, facilitates reliable osseointegration, promoting stable and successful implant placements.

Versatility: Our products cater to a wide range of dental cases, enabling you to provide personalised solutions for each patient's unique needs. Implant dimension 3.6, 4.0, 5.0 with different length 8, 10, 11.5, 13, 14.5.

Join us in revolutionising dental implantology—together, we create smiles that inspire confidence!



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BAYERNS BEST 50—bredent receives an award for best performance

bredent GmbH & Co. KG was honoured by the Bavarian State Ministry of Economic Affairs, Regional Development and Energy as one of the fastest-growing medium-sized companies in Bavaria. As part of the "BAYERNS BEST 50" event, the company and 49 other winners received the award, which stands for outstanding entrepreneurial growth, employee growth and sales growth. The award was handed over by Hubert Aiwanger, Bavarian State Minister for Economic Affairs, Regional Development and Energy.

"The award is a confirmation of our continuous corporate development and our commitment to our employees and the region," explains Peter Brehm, founder and owner of bredent. "With our innovative approach and a strong focus on quality and training, we have not only created jobs, but also actively contributed to the creation of a high standard of living in Bavaria."

The "BAYERNS BEST 50" award recognises companies that have achieved superior growth in recent years. Important selection criteria are the economic success of the company and the active role of the company management in the business.

bredent GmbH & Co. KG will showcase its innovative products at upcoming IDS International Dental Show from 25 to 29 March 2025,



in Cologne. Find bredent GmbH & Co. KG in Hall 4.2, booth H68/69.

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Neodent® Zi Ceramic Implant System: performance with outstanding aesthetic result

The Neodent® Zi Ceramic Implant System combines the notions of aesthetic, stability, and flexibility. This solution allows clinicians to immediately treat patients due to the modern naturally-tapered design and wide prosthetic portfolio, achieving high-end aesthetic results.

Treatment flexibility

Designed to provide several treatment solutions and a wide range of prosthetic possibilities through a two-piece connection, Zi offers solutions from conventional to digital workflow, able to treat bone types I to IV.

Tapered design and connection for stability

The Ceramic Implant System exhibits a modern tapered geometry designed for predictable immediate load. This feature is designed to mimic the tapered shape of a natural tooth root, achieving high primary stability.

Additionally, Zi has the exclusive ZiLock® internal ceramic connection, a user-friendly

system designed with a longer screw which provides a secure engagement between the ceramic implant and the ceramic abutment. This design improves the performance by optimising the force distribution along the internal connection.

Ceramic prosthetic portfolio

The Ceramic prosthetic portfolio allows conventional or immediate protocols.

In addition, both conventional and digital workflows can be applied, resulting in a natural-looking restoration.

Neodent at IDS 2025

Neodent, the largest dental implant company in Brazil and the second-largest implant com-



pany in the world by volume, will showcase the Zi Ceramic Implant System at IDS 2025 in Cologne from 25 to 29 March. Already a success in the aesthetics segment and the German market, Zi invites visitors to discover its exceptional performance at Hall 4.2, booth G080/J089.

Neodent—A Straumann Group Brand
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Z-SYSTEMS reaches 20-year milestone in advanced dentistry, pioneering zirconia implants

Z-SYSTEMS Ceramic Implants is proud to celebrate the continued success of our bone-level and tissue-level ceramic implants—the world's first and only 100 per cent ceramic dental implants with a screw-retained conical connection. These groundbreaking implants have set a new standard in implantology, offering unmatched strength, biocompatibility, and aesthetic excellence. With 20 years of dedicated research and clinical expertise, Z-SYSTEMS has revolutionised the field of implants and their commitment to innovation has propelled the company to the forefront of dental implant technology. The advanced design of the 100 per cent ceramic implants provides patients with a metal-free solution that promotes optimal long-term outcomes, ensuring stability, natural appearance, and improved oral health.

Key features and benefits:

- 1. Superior aesthetics:** The tooth-coloured zirconia material closely resembles natural teeth, allowing for seamless and lifelike restorations.
- 2. Enhanced biocompatibility:** Our zirconia implants feature biocompatible materials with excellent tissue acceptance, promoting healthy osseointegration and long-term implant success.



- 3. Two-piece conical connection:** This unique connection ensures a precise fit and stability while minimising the risk of bacterial penetration, contributing to lasting implant success.
- 4. Outstanding durability:** Zirconia's exceptional strength and fracture resistance make our implants highly durable and suitable for a wide range of clinical cases.

Join us as we celebrate 20 years of pioneering excellence, as the world leader in zirconia implants, and discover how Z-SYSTEMS' bone-level and tissue-level implants can grow your practice and improve patient outcomes. For more information, visit www.zsystems.com.

Z-SYSTEMS Ceramic Implants is a leading dental implant manufacturer specialising in advanced ceramic implant solutions. With a focus on innovation, precision, and patient-centric outcomes, Z-SYSTEMS has set a new standard in implant dentistry. The company's commitment to excellence is rooted in a passion for enhancing smiles and improving the lives of patients worldwide.

Z-SYSTEMS AG
Switzerland
www.zsystems.com

New photorealistic animation on the pathophysiology of particle-induced peri-implantitis

A widely understated risk factor for peri-implantitis that needs better understanding has increasingly become a focus in dental implantology: thin-film cell-toxic residues and particulate plastic material. These contaminants are often found in quality assessment studies on new, sterile-packaged dental implants. They originate from machining, remain after insufficient cleaning processes, or can result from faulty handling and packaging during the complex production chain of implant manufacturing.



In collaboration with Manolis Babatsikos and the team at 3D Medical Animations, the CleanImplant Foundation has created a photorealistic animation on the pathophysiology and pathobiology of peri-implantitis caused by contaminants on new dental implants. The animation clearly illustrates in an impressive way how impurities left on the implant surface can initiate an immune reaction in the patient via a foreign body reaction. During that foreign body response, pro-inflammatory cytokines promote osteoclastic activity, leading to bone loss at the osseous interface with the implant. Early bone loss and soft-tissue degradation are often described as the beginning of a bad ending as bacterial plaque accommodates on implant threads exposed to the oral cavity.

The three-minute photorealistic video can be seen on the completely redesigned website of the non-profit initiative (www.cleanimplant.org). The CleanImplant website relaunch shows a comprehensive reimagining of the history and vision, far beyond a simple update. Visitors can explore pivotal developments and features that highlight the CleanImplant initiative. The video is available for download and is free for use in lectures and dental education. The download link for a high-resolution version of the 3D animation is available on request.



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