

# 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.

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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.

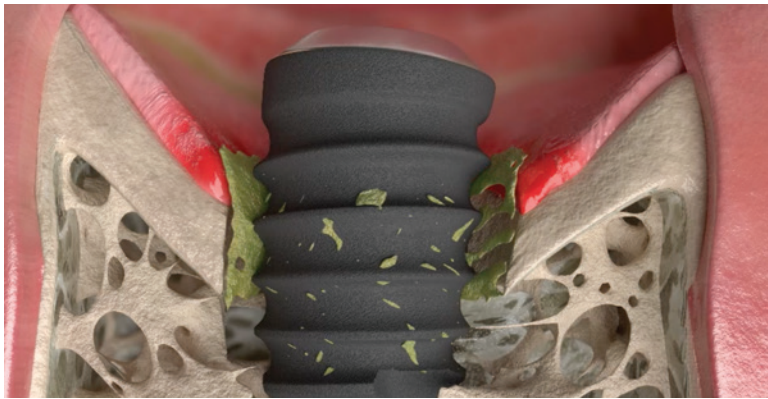
Join us as we celebrate 20 years of pioneering excellence, as the world leader in zirconia implants, and discover how Z-SYSTEMS' bone-level and tissue-level implants can grow your practice and improve patient outcomes. For more information, visit [www.zsystems.com](http://www.zsystems.com).

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](http://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](http://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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