



# “Ceramic will replace titanium in the long run”

swiss made



In 2004, Z-Systems obtained the first CE certification for one-piece ceramic implants; three years later they obtained FDA certification as the first ceramic implant manufacturer. From that point on, the company developed to one of the leading companies in the global market of ceramic implants. Tens of thousands of successfully placed implants and more than 15 years of experience have brought the company significant advances in manufacturing, quality and know-how. In the

interview, Z-Systems provides an insight into the company's success story and gives an ambitious outlook into the future of ceramic implants.

**Z-Systems is one of the leading companies in the field of ceramic implants. What is your success story?**

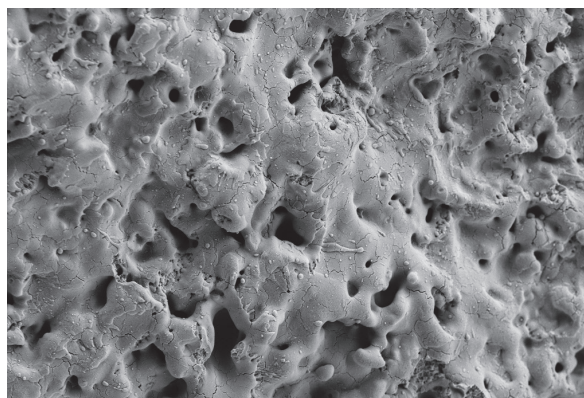
We are not only one of the leading companies in the field of ceramic implants, but we are also innovation and world market leader for many years now. In the last 16 years, about 50,000 Z-Systems implants had been inserted. This is a number which is not even roughly achieved by any other company. Thereby, uppermost maxim and one main reason of success is our uncompromising safety awareness. We know from experience that in the development and production of ceramic implants there are far more factors needed to be kept in mind than for titanium implants. Material, surface and implant-abutment geometry are key factors for favourable outcomes, guaranteeing long-term traceable success rates of over 98 per cent.



**In your portfolio, you are offering both two-piece and one-piece ceramic implants. How is your ceramic produced? What are the characteristics of your ceramic implants' surface structure? And which technology do you use for your implant-abutment connection?**

Our ceramic is produced under strict obedience of ISO Norm 13356 which defines the composition of ceramic implants' material. Surprisingly, there are some systems available at the market which do not comply with this norm. However, our implants and superstructures are produced in a unique and patented Zirkolith® manufacturing process. The implant's surface is also manufactured with a patented SLM® method where the flanks of the thread are roughened by using a laser device. With this method, an optimal degree of micro-/macro-roughness is achieved. Furthermore, the surface is made hydrophilic with an elaborate plasma sterilisation.

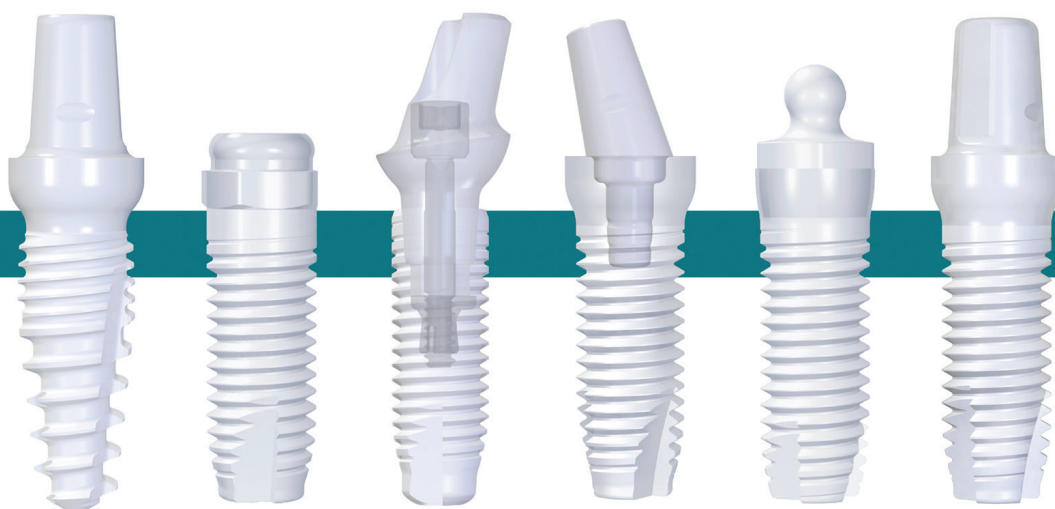
Our product portfolio comprises both one-piece and two-piece implants. Thereby, one main advantage is the grindability of abutments and implants, which has been released by Z-Systems in 2004 already. The one-piece



2 µm EHT = 4.00 kV Signal A = SE2 Date :9 Jun 2017  
WD = 8.0 mm Photo No. = 694 Mag = 2.00 K X ZEISS  
Polaroid

Surface is manufactured with a patented SLM® method.

be just as good in the field of implant and prosthodontics as a titanium implant system. Since ceramic implants are more aesthetic, sustainable and healthier, there will actually be no reason to use titanium implants in the future any more.



implants are available in different geometries, while the two-piece implants contain a cementable gingiva level and a screw-retained bone level implant. This again illustrates the pioneering role of Z-Systems: A working and secure bone level implant, as presented with the Z5s which at the same time fulfils the accustomed process in surgery and prosthodontics, is a novelty in zirconia-based implantology.

#### **Will the material ceramic completely replace titanium in dental implantology over the long term?**

We are convinced that ceramic will replace titanium in the long run. Currently, this may sound a bit overbearing and little farsighted, but: In only a few months, Z-Systems will be able to offer a complete implant system which will

#### **At which events can dentists gather information on the products of Z-Systems?**

Z-Systems is present at the most important global congresses. Beyond that, dentists can feel free to directly contact us via one of our branch offices worldwide mentioned at our company website.

#### **contact**

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