



TRI

dental implants



TRI[®] Dental Implants

SBA Surface

TRI[®]-Narrow, TRI[®]-Vent & TRI[®]-Octa

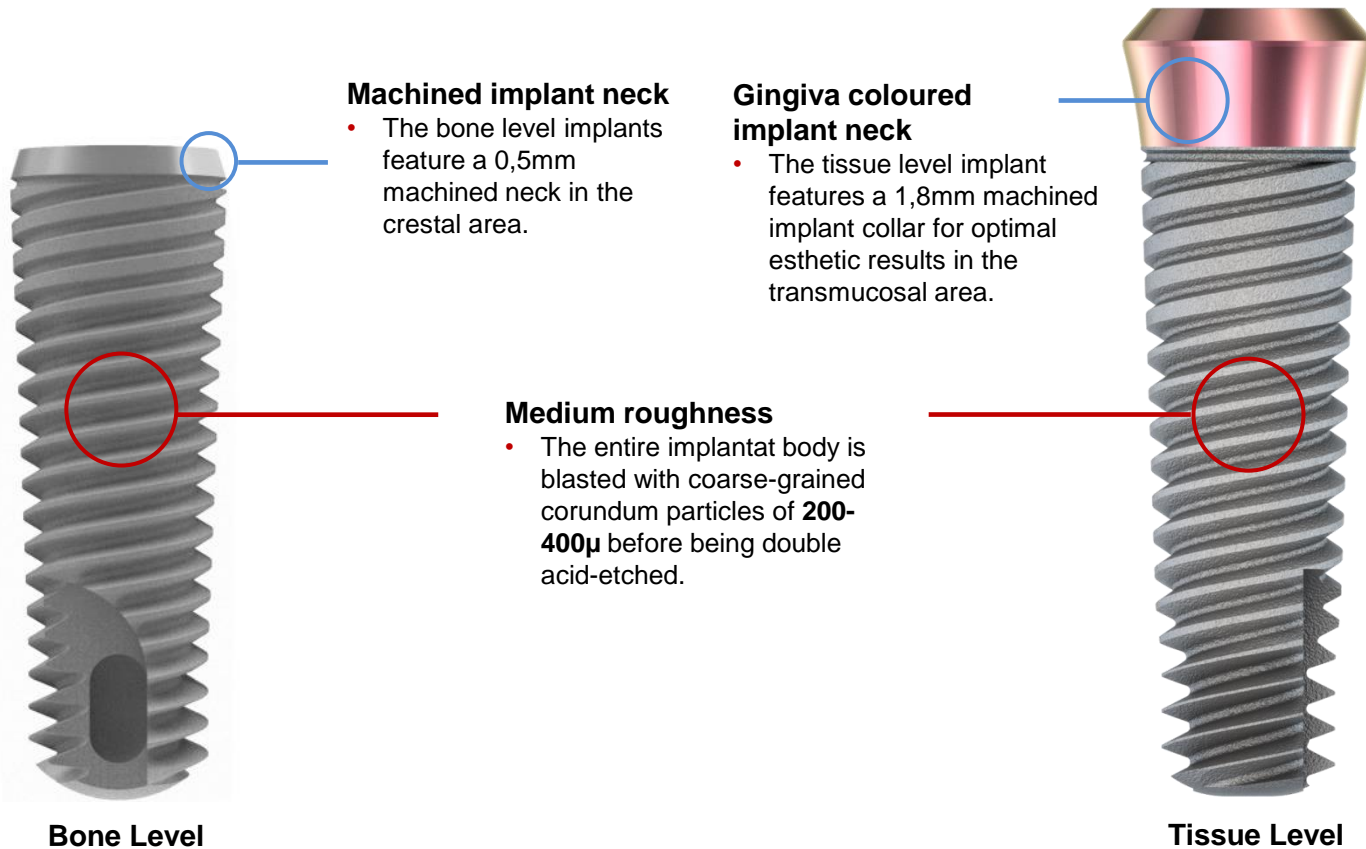
Through Research Innovative

www.tri-implants.com

TRI®- SBA Surface

For predictable osseointegration

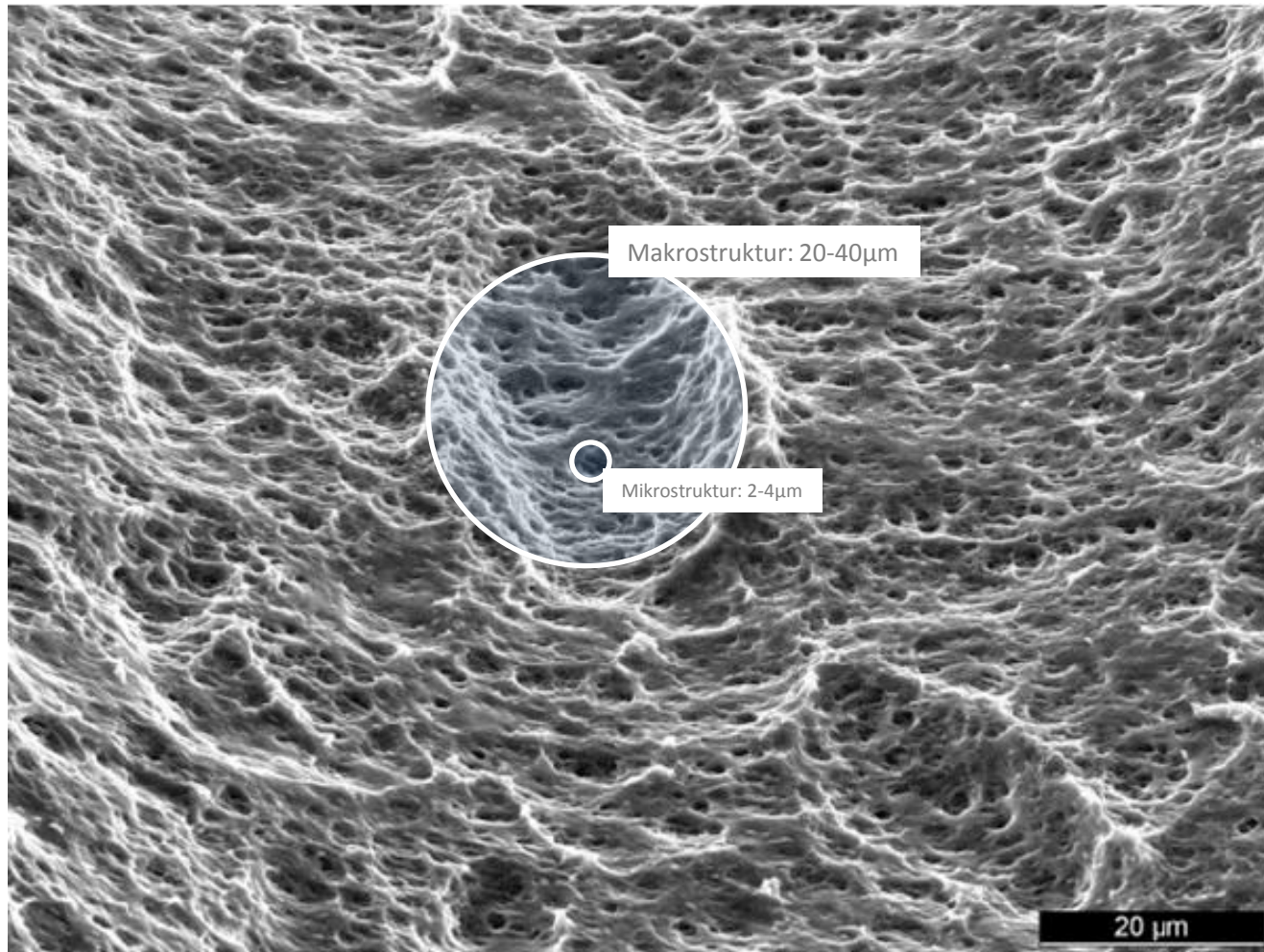
Die TRI® SBA (Sandblasted, large grit, acid-etched) surface is one of the industry gold standards for more than 20 years. It is created by blasting the implant surface under pressure with corundum particles. In the final step the surface is acid-etched twice in order to attain a medium roughness.



TRI[®]- SBA Surface

For predictable osseointegration

Surface technology: TRI[®]-SBA “Gold Standard” in the industry

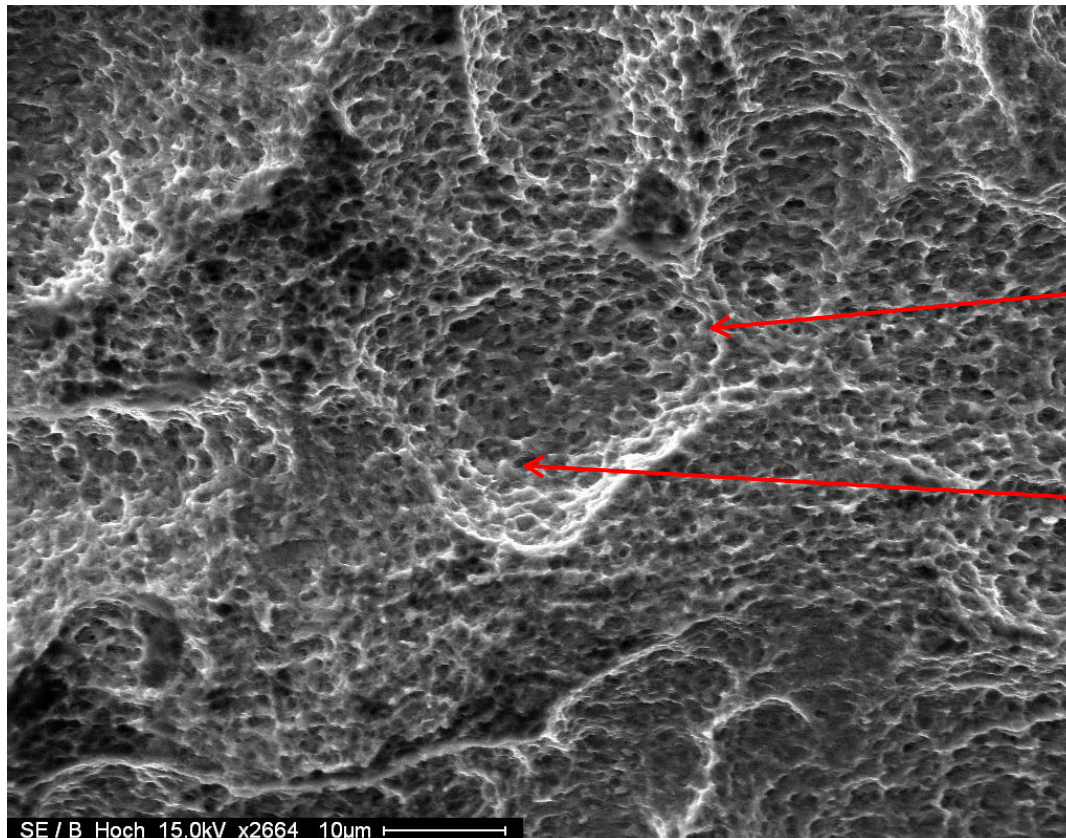


TRI[®]- SBA Surface

For predictable osseointegration

Surface texture

A makrostructure of 20-40 μ and a microstructure of 20-40 μ as an ideal basis for excellent osseointegration. This structure has been proven by numerous clinical studies for this surface type.



In Cooperation with:



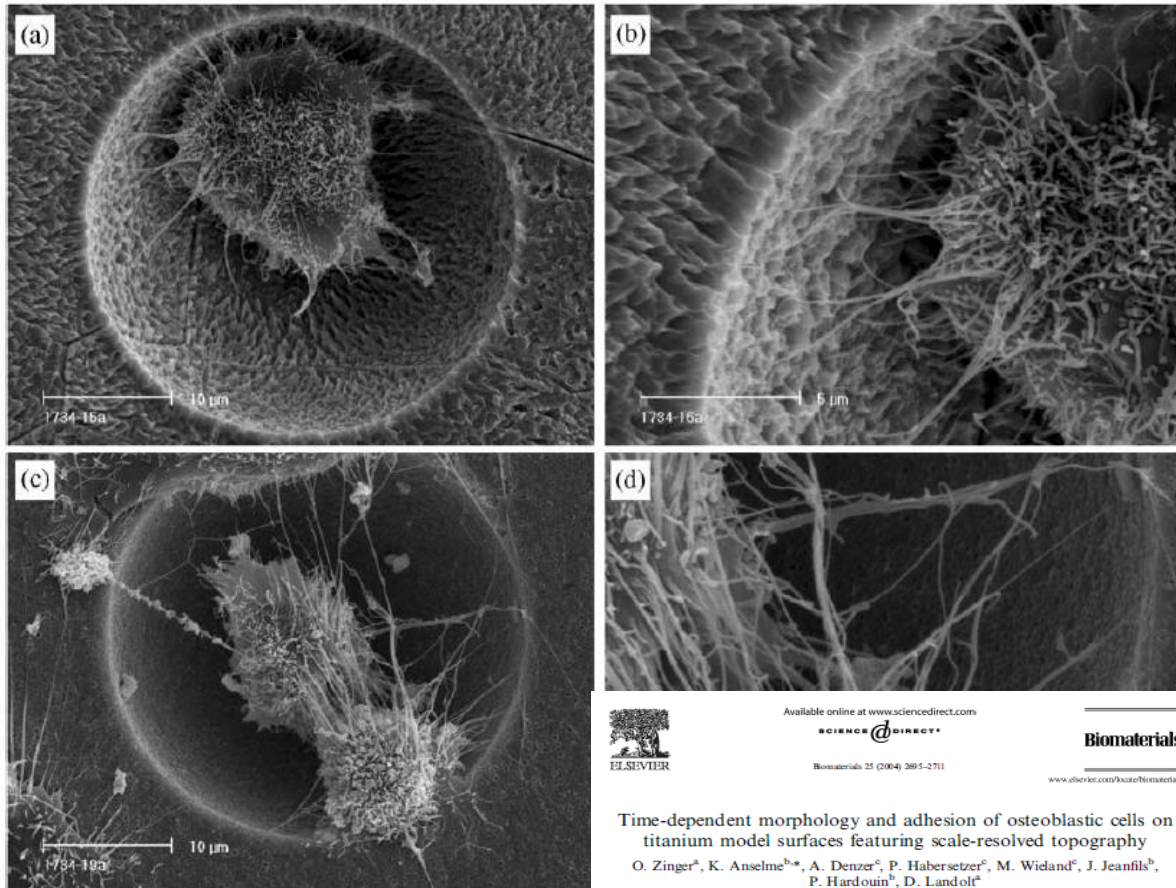
Deep craters by blasting with coarse corundum (Al₂O₃), grain size 200-400 μ . This crater shows an average size of 60-80 μ (distance peak-to-peak).

Fine roughness within the crater by dual acid etching. Characterized fine crater with a mean size of 2-5 μ (peak-to-peak distance).

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- Macrostructure of the titanium oxide surface of 20-40 μ m offers an ideal base for attachment of the osteoblasts*



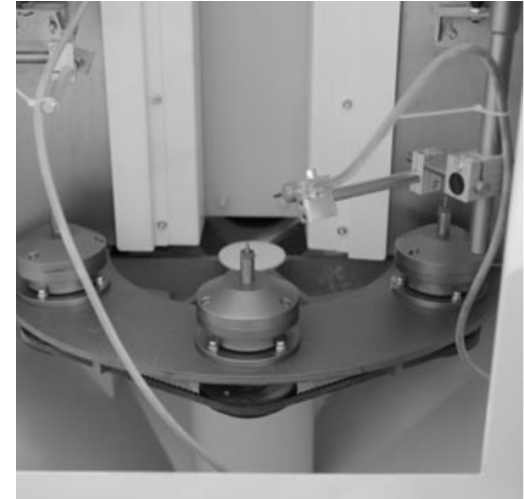
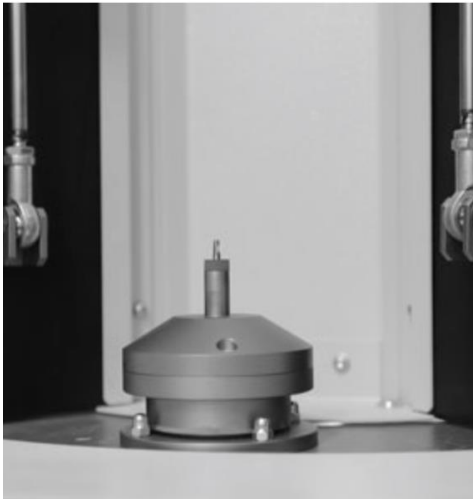
*Active osteoblasts present themselves as large (20-30 microns by measuring), clumsy, basophil cells with usually eccentric round nucleus (Webb and Tricker 2000).

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Blasting the implants with corundum(Al_2O_3)

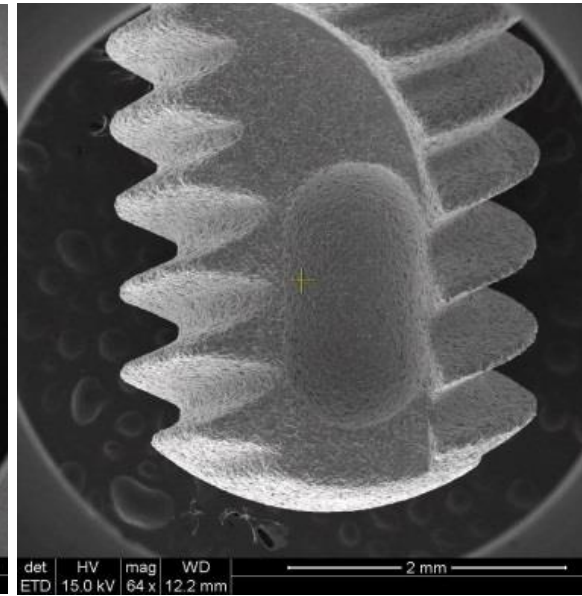
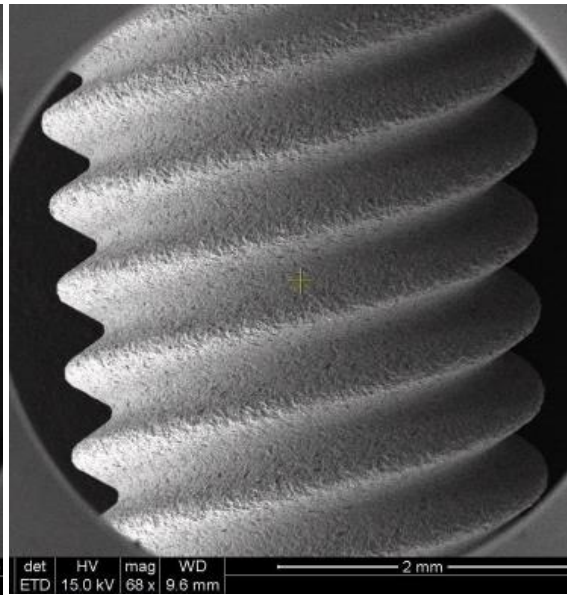
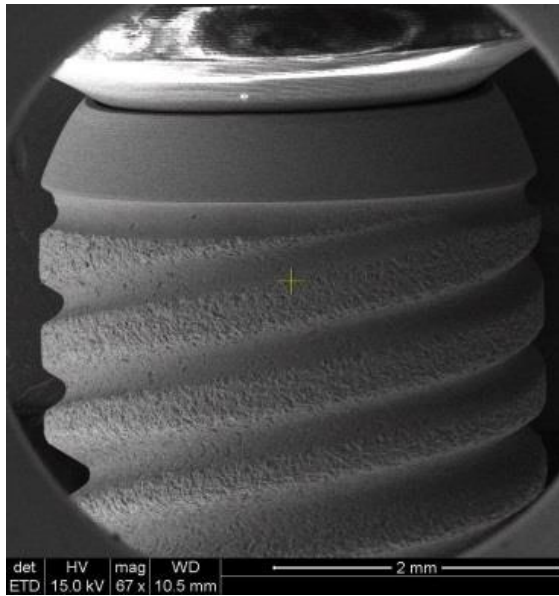
- Each implant is individually blasted on a separate holder.



TRI®- SBA Surface

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Thread of a TRI®-Vent implant - after the surface treatment*



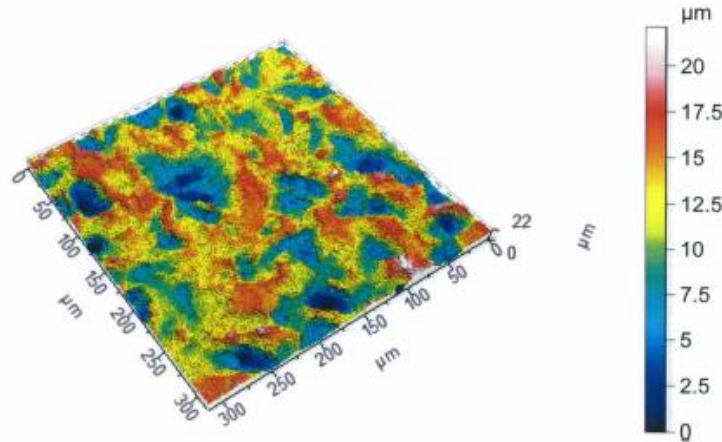
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*Source: CENDRES® METALUX

TRI[®]- SBA Surface

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- Roughness & high parameter of the TRI[®] - SBA surface*

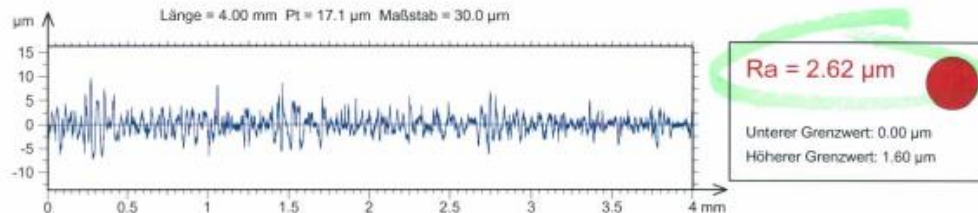


2D-Parameter

ISO 4287			
Amplituden-Parameter - Rauheitsprofil			
Ra	2.62	µm	Gauss-Filter, 0.8 mm
Rz	17.1	µm	Gauss-Filter, 0.8 mm
Rt	19.5	µm	Gauss-Filter, 0.8 mm

3D-Parameter

ISO 25178			
Höhen-Parameter			
Sa	2.96	µm	Arithmetische Durchschnittshöhe
Sq	3.67	µm	Durchschnittliche quadratische Höhe
Sz	22.2	µm	Maximale Höhe
Feature-Parameter			
S10z	15.7	µm	Pruning = 5% Zehn-Punkte-Höhe



*Source: Diener AG - Switzerland

TRI[®]- SBA Surface

For predictable osseointegration

- BDIZ Study 2014-2015*



European Association of
Dental Implantologists



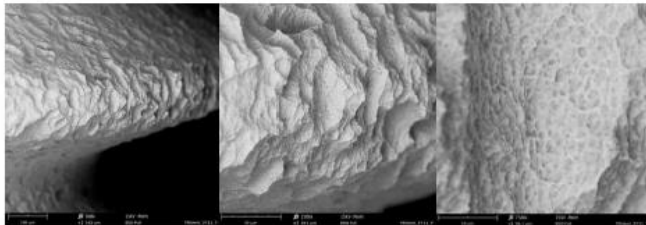
TRI meets all quality criteria in the new edition of the
BDZ EDI implant study 2014/2015.

Preliminary results with the permission of BDIZ

The final report of the implant study BDIZ EDI 2014/2015 (www.bdizedi.org) examined, the
investigated TRI-Vent implant meets the following criteria:

- ✓ free from organic impurities.
- ✓ no significant residues from the manufacturing process.
- ✓ precision-machined outer geometry.

Dr. med. Dent. Dirk U. Dudeck
Director of studies, University Hospital of Cologne



Source: (BDIZ EDI) Implant-Study 2014/2015 Quantitative and qualitative element –analysis of implant-surfaces
by SEM and EDX PRELIMINARY STUDY REPORT



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components due to
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portable structure



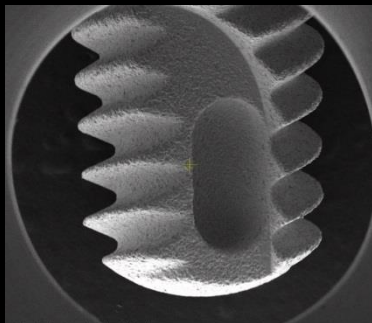
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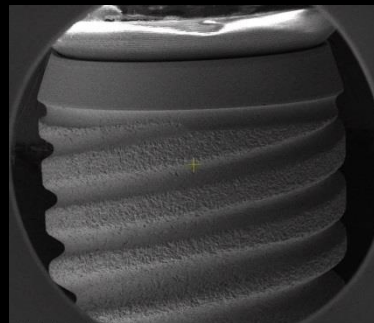
THINK DIFFERENT
The response from 30 years of
dental implantology combined
with a novel and innovative
company concept

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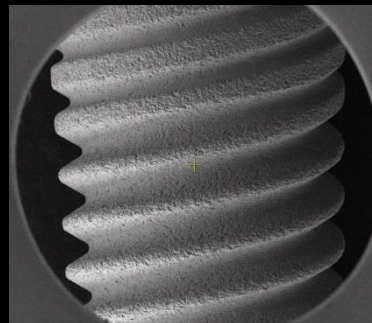
* Source: Quantitative and qualitative element-analysis of implant surfaces by SEM and EDX



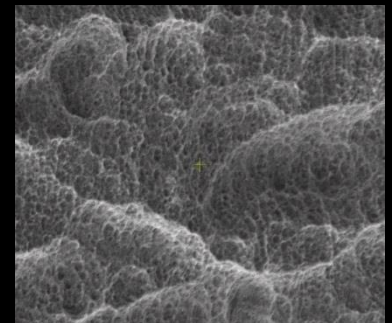
det HV mag WD
ETD 15.0 kV 71x 7.5 mm 2 mm



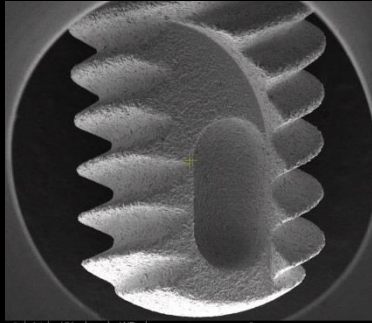
det HV mag WD
ETD 15.0 kV 71x 8.7 mm 2 mm



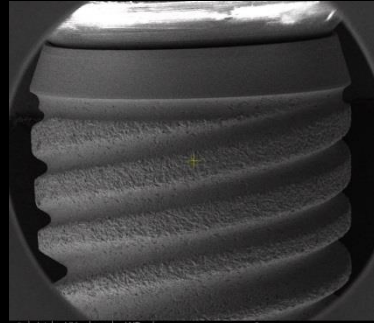
det HV mag WD
ETD 15.0 kV 68x 9.6 mm 2 mm



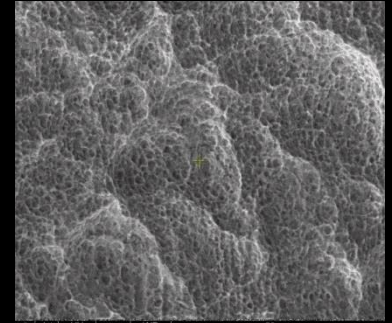
det HV mag WD
ETD 15.0 kV 3.000x 11.1 mm 50 µm



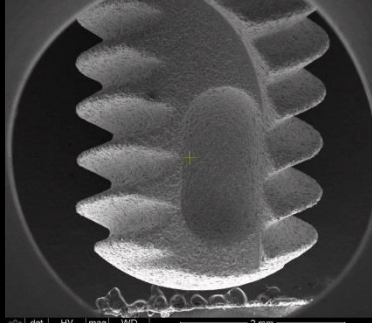
det HV mag WD
ETD 15.0 kV 88x 9.4 mm 2 mm



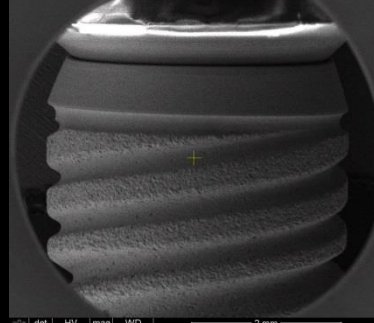
det HV mag WD
ETD 15.0 kV 88x 12.3 mm 2 mm



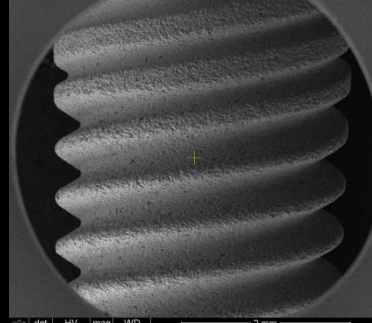
det HV mag WD
ETD 15.0 kV 3.000x 11.7 mm 50 µm



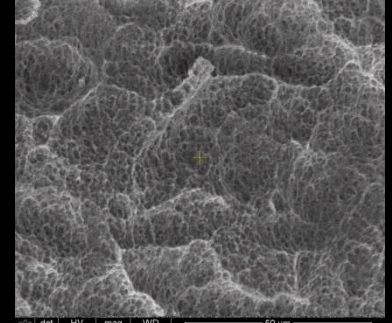
det HV mag WD
ETD 15.0 kV 66x 10.7 mm 2 mm



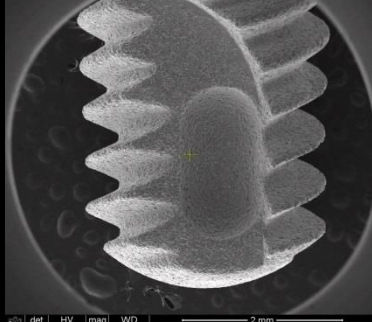
det HV mag WD
ETD 15.0 kV 60x 15.6 mm 2 mm



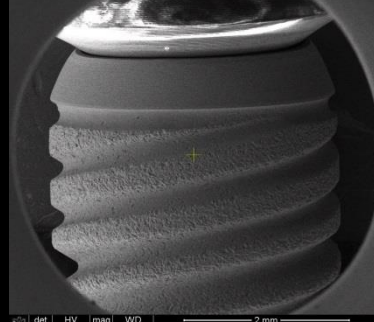
det HV mag WD
ETD 15.0 kV 68x 9.6 mm 2 mm



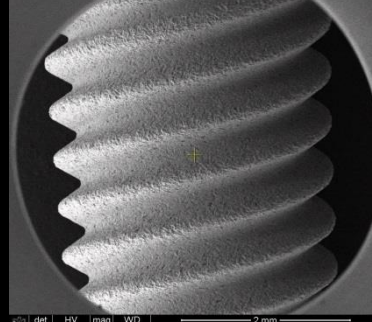
det HV mag WD
ETD 15.0 kV 3.000x 10.4 mm 50 µm



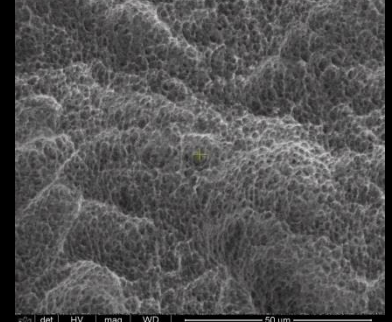
det HV mag WD
ETD 15.0 kV 64x 12.2 mm 2 mm



det HV mag WD
ETD 15.0 kV 67x 10.5 mm 2 mm



det HV mag WD
ETD 15.0 kV 68x 9.6 mm 2 mm



det HV mag WD
ETD 15.0 kV 3.000x 10.9 mm 50 µm