



# **The New Standard** in Dental Implantology

Natural. Easy to use. Long-term success.

# Patent™ – the perfect choice to restore your patient's natural smile.

## The Dental Implant System with a unique hydrophilic surface and Lifetime Guarantee.

Zircon Medical applies a patented production process which results in a unique hydrophilic and osteoconductive implant surface without process-induced micro-cracks.



**Natural**



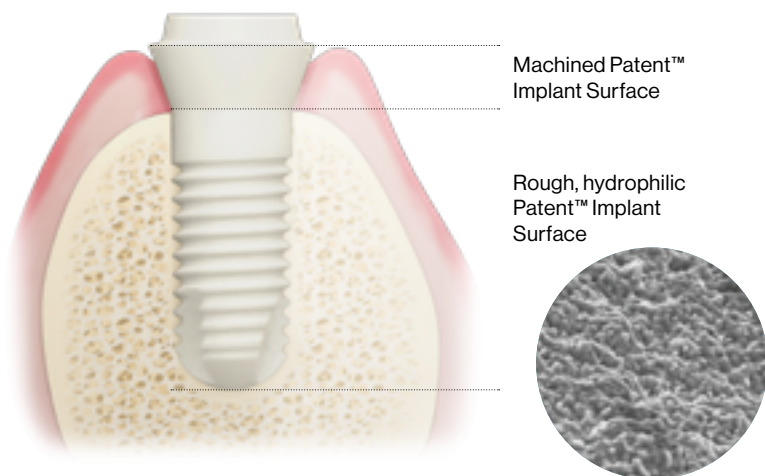
**Easy & Smart**



**Sustainable**







## Biointegration

Biointegration is essential to the success and longevity of the implant. The optimum healing between the soft and hard tissue and the Patent™ Implant eliminates infections and reduces complications like periimplantitis and perimucositis. The cemented connection between the implant and the glass fiber post lies above the soft tissue and is completely covered by the dental crown.



## Unique hydrophilic and osteoconductive surface

The hydrophilic Patent™ Surface is significantly rougher and has a larger surface area for bone cell adaptation compared to other zirconia implants. Patent™ Implants are clinically proven to achieve predictable osseointegration on par with titanium implants.<sup>1,2</sup>



## Natural esthetics

Zirconia implants are corrosion resistant and have less plaque adhesion, making them just as durable and biocompatible as titanium implants. Clinical studies have proven that Patent™ Implants have a nearly perfect survival rate over an extended period of time.<sup>1,2</sup>

<sup>1</sup>Becker, <sup>2</sup>Brüll, (page 13)



# 100%

biocompatible

**Optimum Esthetics**



High patient satisfaction

**Conventional Dentistry**



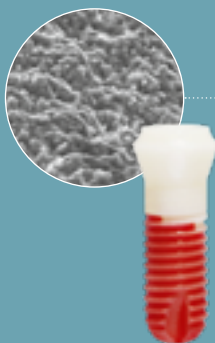
Minimum training needed

**3C™ Connection**



Optimization of stress distribution during insertion

**Unique Hydrophilic Surface**



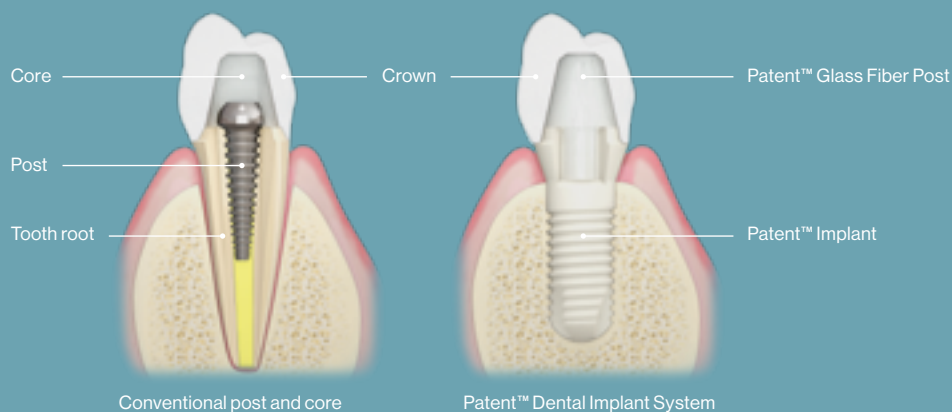
Natural healing and optimum biointegration



# Easy & Smart

## Concept

Our easy concept enables us to keep the number of components to a minimum



### Concept: Post & Core

The Patent™ Dental Implant System is comprised of one- and two-piece ceramic implant designs. The two-piece system features a “screw-less” prosthetic approach which mimics traditional crown & bridge dentistry. Patent™ Implants and their elegant simplicity also eliminate the need for additional restorative instruments.



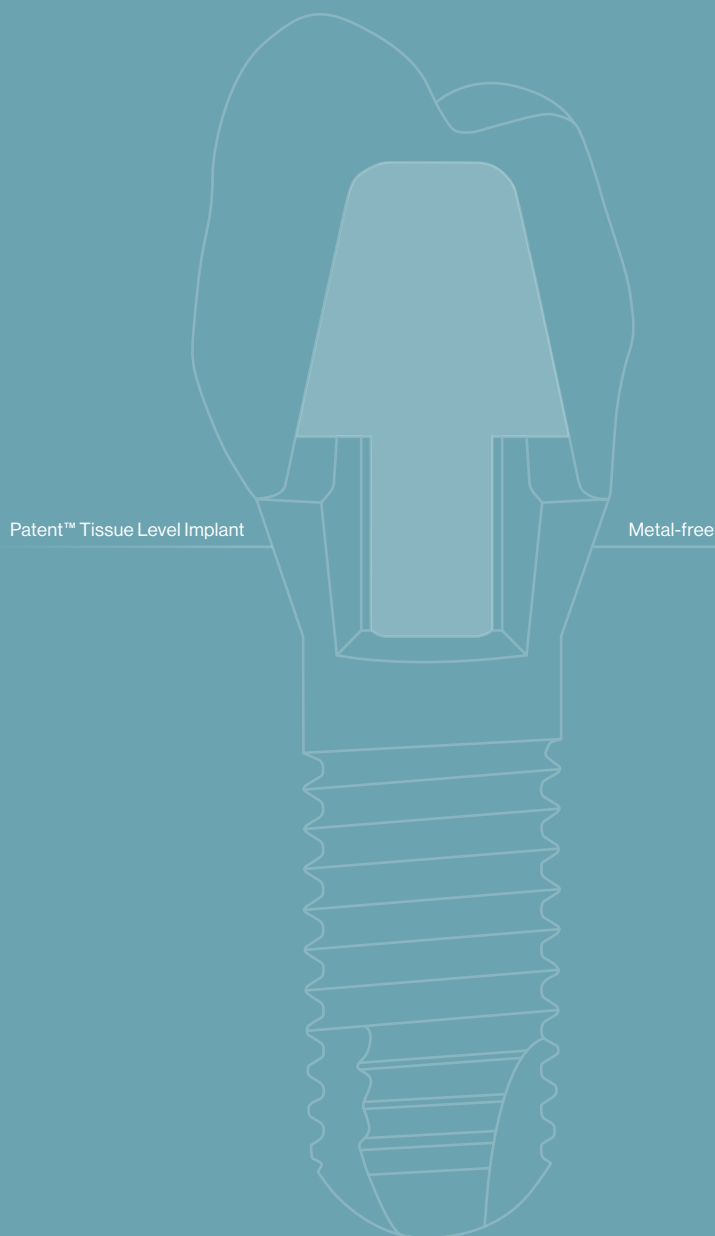
### Two Components – a broad range of indications

The Patent™ Dental Implant System only includes two components - the implant with integrated abutment and the high-tech glass fiber post. With only two components, you can cover a broad range of indications. In addition, you can significantly reduce your inventory.



### Reduced Chairtime

The lean clinical protocol leads to a safe and efficient treatment. There are two restorative protocols available. The post can be prepared either chairside or in the dental lab.



# Reduced investment

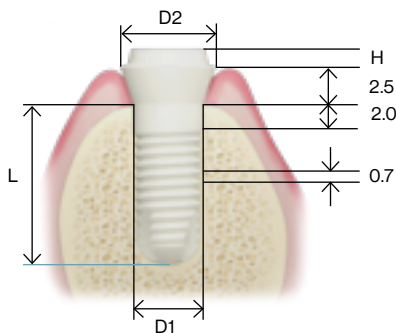
There is no need for additional components and tools.

- ✓ Each package contains all you need to complete your case
- ✓ No healing abutments
- ✓ No impression posts or analogs
- ✓ No screws and screw drivers
- ✓ No prosthetic instruments



# Dimensions

Our implants are designed to address a broad range of anatomical situations



Endosseous diameter (D1)		Ø 4.1 mm	Ø 4.5 mm	Ø 5.0 mm
Platform diameter (D2)		Ø 5.2 mm	Ø 6.2 mm	Ø 6.2 mm
Ferule height (H)		1.6 mm	1.2 mm	1.2 mm
Length (L)	7 mm	2S4107	2S4507	2S5007
	9 mm	2S4109	2S4509	2S5009
	11 mm	2S4111	2S4511	2S5011
	13 mm	2S4113	2S4513	2S5013



## Long-term success

Product development is based on the know-how of more than 10'000 successfully placed implants and 14 years of clinical data with the aim of developing a unique and absolutely reliable ceramic implant.



## Unique clinical evidence

The Patent™ Dental Implant System is the most well-documented two-piece ceramic implant system with a clinically-proven survival rate comparable to titanium implants.<sup>1,2</sup>



## Proven longevity of the Patent™ Zirconia

Zircon Medical applies a patented proprietary manufacturing process which results in a unique, hydrophilic and osteoconductive surface without process-induced micro-cracks.



<sup>1</sup>Becker, <sup>2</sup>Brüll, (page 13)



# Lifetime Guarantee

## Why are we so confident?

1

Our patented manufacturing results in an implant without process-induced micro-cracks. We are confident in the long-term strength and reliability of our products.

2

The 3C™ Connection has an optimal geometry torque transmission, resulting in an extra strong connection and long-term reliability between our prosthetic components and the implant.

3

The ideal combination of metal-free materials: Patent™ Implants and the high-performance Patent™ Glass Fiber Post have demonstrated excellent long-term results.



## Lifetime Guarantee



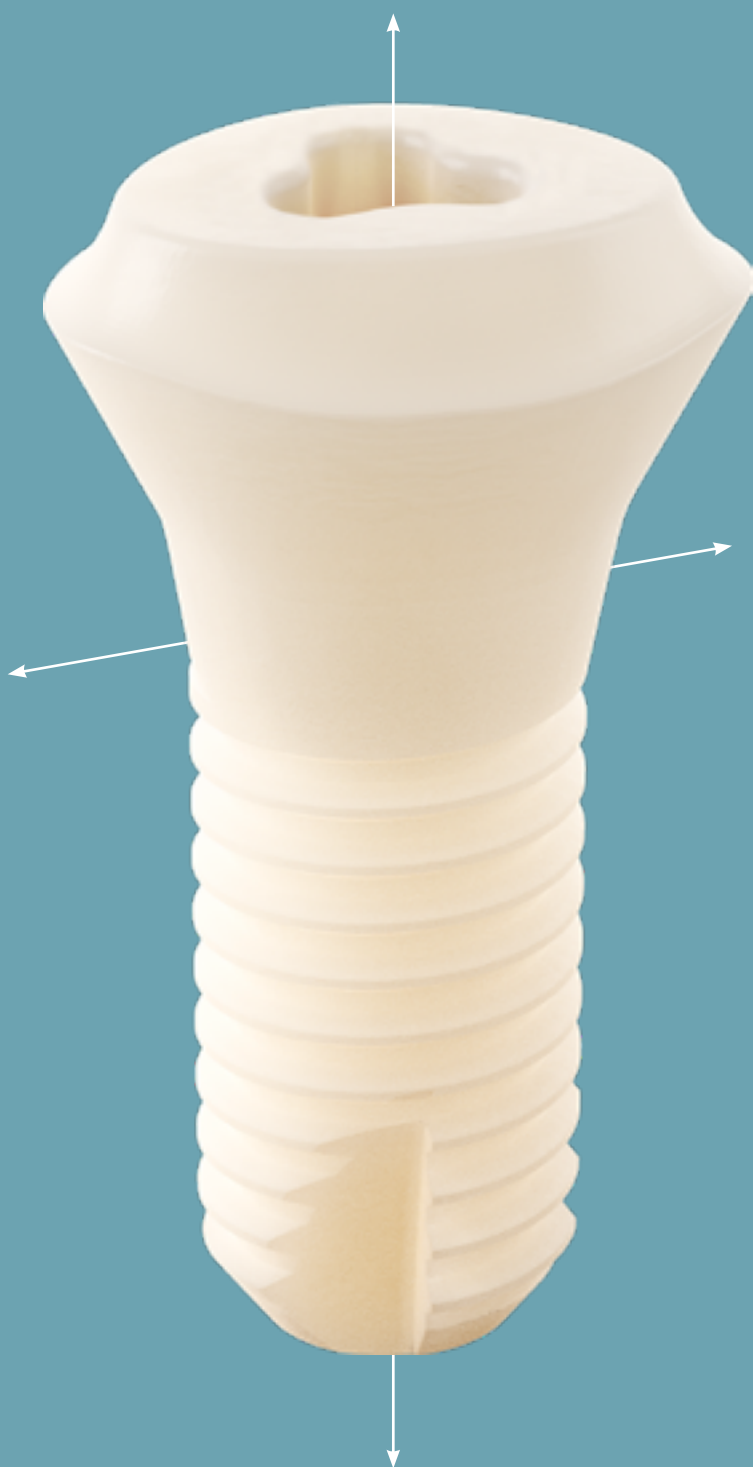
For more details please visit  
[www.mypatent.com](http://www.mypatent.com)



# Tailor-made

## Individuality

Individuality is the new perfection. Every smile is different, and in many cases, a customizable solution is the best way to natural esthetics, good oral health and long-term patient satisfaction. We believe our approach is the right approach, which is why we are the only implant company that offers individualized ceramic implants.



## Implant Design Software

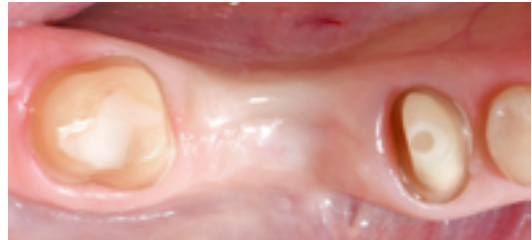
User-friendly design interface for fast and simple customization of the implant according to the anatomical situation.



## Single tooth replacement with an individualized implant<sup>5</sup>



1. Initial radiograph



2. Prior surgery



3. The placed surgical guide



4. Wound closure



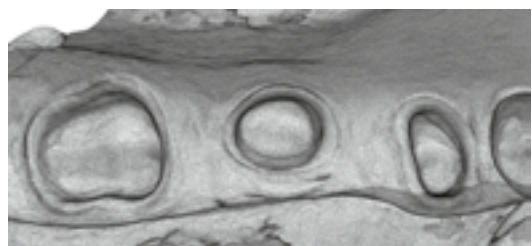
5. Radiograph post-placement



6. Glass fiber post prepared



7. Occlusal view



8. Intra-oral scan



9. Final restoration



10. Final restoration

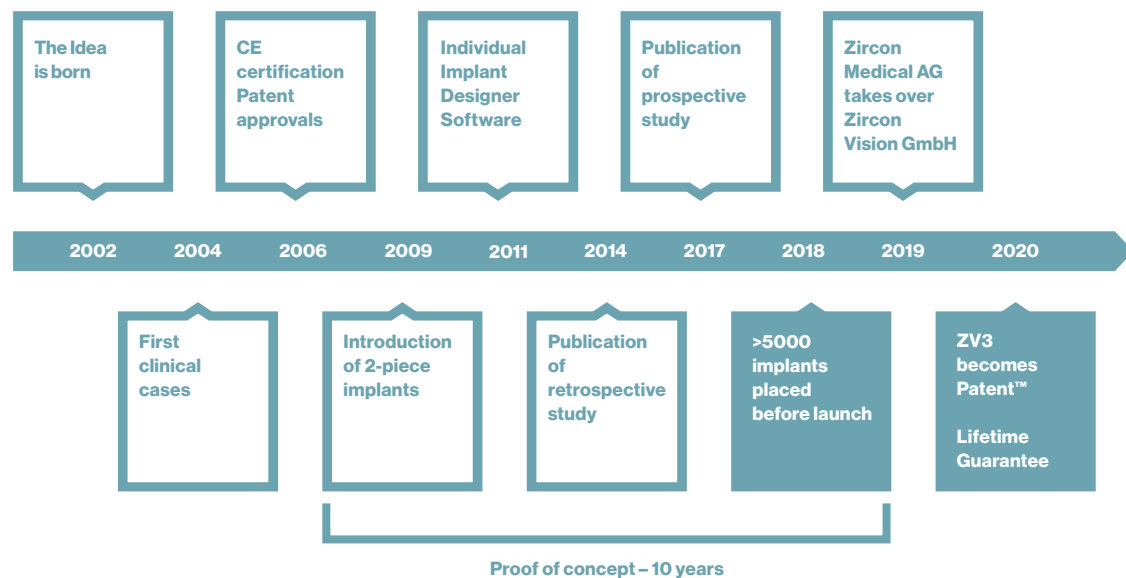


# Zircon Medical Management AG

## Our vision

Our vision is to make the Patent™ Dental Implant System the standard of care in tooth replacement for dental professionals and the favorite choice of patients.

## Company history



## We are not like the others

At Zircon Medical Management, we are an upstart team of passionate professionals from various industries. We are a team inspired to improve everyone's quality of life with transformational tooth replacement solutions designed to maximize wellness and reduce complexity. We have pooled our expertise to create an organization that listens to the needs of patients and works to create a strong bond between them and dental professionals.

## We are the ideal blend...

...of German Manufacturing, Swiss Engineering and International Commercialization guided by our core pillars of sustainable oral wellness, reduced treatment complexity and biologically natural esthetics.

[www.zircon-medical.com](http://www.zircon-medical.com)

## Research Paradigm

The Patent™ Dental Implant System was developed with the determination to improve existing dental implant technology, spearheading a new era in metal-free tooth replacement solutions. Patent™ is currently the world's most well documented ceramic implant system. Our existing research proves that we have a survival rate comparable to the most successful titanium implants<sup>1</sup>. We encourage you to re-think dental implants.

Scan me!



### Prospective study

#### Prospective study of 52 ZV3 (Patent™) two-piece implants for single tooth replacements<sup>1</sup>.

Becker J, et. al. Clinical performance of two-piece zirconium implants in the posterior mandible and maxilla: a prospective cohort study over 2 years. Clin. Oral Impl. Res. 28, 2017, 29–35 doi: 10.1111/clr.12610

- 95,8 % survival rate over 2 years
- Simultaneous grafting of buccal dehiscences and internal sinus lifts were performed when necessary
- Zero implant fractures reported
- All implant sites revealed a marked increase of the vestibular mucosal level and gain of keratinized tissue at 24 months

Scan me!



### Retrospective study

#### Retrospective study of 121 ZV3 (Patent™) implants in 74 consecutively treated patients<sup>2</sup>.

Brüll F, et. al. Zirconia dental implants: a clinical, radiographic, and microbiologic evaluation up to 3 years. Int J Oral Maxillofac Implants. 2014 Jul-Aug;29(4):914-20. Doi: 10.11607/jomi.3293

- 96,5% survival rate over 3 years
- Implants were placed immediately in extraction sockets or in healed sites
- PPDs ( $1.8 \pm 0.4$  mm) and mean BOP scores ( $4.1\% \pm 4.2\%$ ). PPD and BOP were statistically significantly lower around implants than around teeth
- Stable marginal bone levels were observed (mean bone loss of  $0.1 \pm 0.6$  mm after 3 years)

1 Becker J, John G, Becker K, Mainusch S, Diedrichs G, Schwarz F. - Clinical performance of two-piece zirconium implants in the posterior mandible and maxilla: a prospective cohort study over 2 years. Clin. Oral Impl. Res. 28, 2017, 29-35 doi: 10.1111/clr.12610

2 Brüll F, van Winkelhoff AJ, Cune MS – Zirconia dental implants: a clinical, radiographic, and microbiologic evaluation up to 3 years. Int J Oral Maxillofac Implants 2014 Jul-Aug; 29(4): 914-20. doi: 10.11607/jomi.3293


3 Fahrenholz H. – High efficiency and primary stability – Immediate placement and loading of a zirconia implant. EDI Journal. Issue 2/2020 Volume 16, ISSN 1862-2879


4 Roehling S, Schlegel KA, Woelfler H., Gahlert M. – Performance and outcome of zirconia dental implants in clinical studies: A meta-analysis. Clin. Oral Impl. Res. 2018; 29 (Suppl. 16): 135 – 153 <https://doi.org/10.1111/clr.13352>


5 Horvath S. – Patent™ zirconia implant system – A Case Report: Ceramic Implants 2020; Vol 1: 42 - 44





# Product portfolio



One-Piece Implant						
	Patent™ Standard One-Piece Implant	Endosseous diameter		Ø 4.1 mm	Ø 4.5 mm	Ø 5.0 mm
		Platform diameter		Ø 5.2 mm	Ø 6.2 mm	Ø 6.2 mm
		Length	7 mm	1S4107	1S4507	1S5007
			9 mm	1S4109	1S4509	1S5009
			11 mm	1S4111	1S4511	1S5011
13 mm	1S4113		1S4513	1S5013		

Two-Piece Implant						
	<b>Patent™ Standard Two-Piece Implant</b>  including Glass Fiber Post	Endosseous diameter		Ø 4.1 mm	Ø 4.5 mm	Ø 5.0 mm
		Platform diameter		Ø 5.2 mm	Ø 6.2 mm	Ø 6.2 mm
		Ferule height		1.6 mm	1.2 mm	1.2 mm
		Length	7 mm	2S4107	2S4507	2S5007
			9 mm	2S4109	2S4509	2S5009
			11 mm	2S4111	2S4511	2S5011
13 mm	2S4113		2S4513	2S5013		

	Patent™ Glass Fiber Post	Diameter		Ø 6.0 mm	Ø 6.0 mm	Ø 8.0 mm
		Height	7 mm	GF00S6	GF00L6	GF00L8

Note: GF00S6 for 4.1 mm implants only  
GF00L6 and GF00L8 for 4.5 mm and 5.0 mm implants














One-Piece Implant					
	<b>Patent™ Individual One-Piece Implant</b>	 <p>For further information please contact Zircon Medical</p>			

Two-Piece Implant					
	<b>Patent™ Individual Two-Piece Implant</b> including Glass Fiber Post	 <p>For further information please contact Zircon Medical</p>			

**Patent™ Surgical Kit**  
(complete)

SK0000

1  
Punch
2  
Ankorn Drill
3  
Pilot Drill
4  
Implant Drill
5  
Guided Countersink
6  
Threat Cutter

Instruments					
	Punches	Ø 4.0 mm	Ø 5.0 mm	Ø 6.0 mm	
		P4	P5	P6	
	Ankorn Drill	D 1.2			
	Pilot Drill	D 2.0			
	Implant Drills	Ø 3.0 mm	Ø 3.5 mm	Ø 3.8 mm	Ø 4.3 mm
		D 3.0	D 3.5	D 3.8	D 4.3
	Guided Countersinks	Ø 3.5 mm	Ø 4.1 mm	Ø 4.5 mm	Ø 5.0 mm
		C 3.5	C 4.1	C 4.5	C 5.0
	Threat Cutter	Ø 3.5 mm	Ø 4.1 mm	Ø 4.5 mm	Ø 5.0 mm
		T 3.5	T 4.1	T 4.5	T 5.0
	Dental Drill Extension	EXT			
	Patent™ Direction indicator	DI0000			
	Patent™ One-piece Implant Driver Small	ID001S			
	Patent™ Two-piece Implant Driver Small	ID002S			
	Patent™ Two-piece Implant Driver Large	ID002L			
	One-Piece Torque Wrench	525-1000900-F			
	Wrench Adapter	1-1000274			



[www.mypatent.com](http://www.mypatent.com)

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