

swiss + made



**SOLVE EVERY CASE.  
WITH 100% CERAMIC.**



# Global leader in ceramic implants. Since 2004.

## Z-SYSTEMS is the global leader in ceramic implants.

Tens of thousands of successfully placed implants and over 15 years' experience have brought us significant advances in manufacturing, quality and know-how. We value clinical documentation, and are certified as per ISO 13485.

## Z-SYSTEMS products are CE- and FDA-certified.

We obtained the first CE certification for one-piece ceramic implants in 2004. All our ceramic implants are manufactured with our safe Zirkolith® process. In 2007, we were the first ceramic implant manufacturer to meet the requirements to obtain FDA certification. Four years later, we continued this success with our Z5c two-piece ceramic implant.

The Z5m(t) conical ceramic implant with active threads was certified by the FDA in 2015, and successfully introduced around the world. Since 2016, we are the first and only manufacturer of a screw-retained bone-level implant made of ceramic with platform switching.

Then, in 2018 with the Z5-BL and in 2020 with the Z5-TL, Z-Systems has virtually revolutionized ceramic implantology. The world's first two-piece screw-retained implants entirely without plastic or metal components enable users to perform workflows and indications that were previously only conceivable with titanium implants.

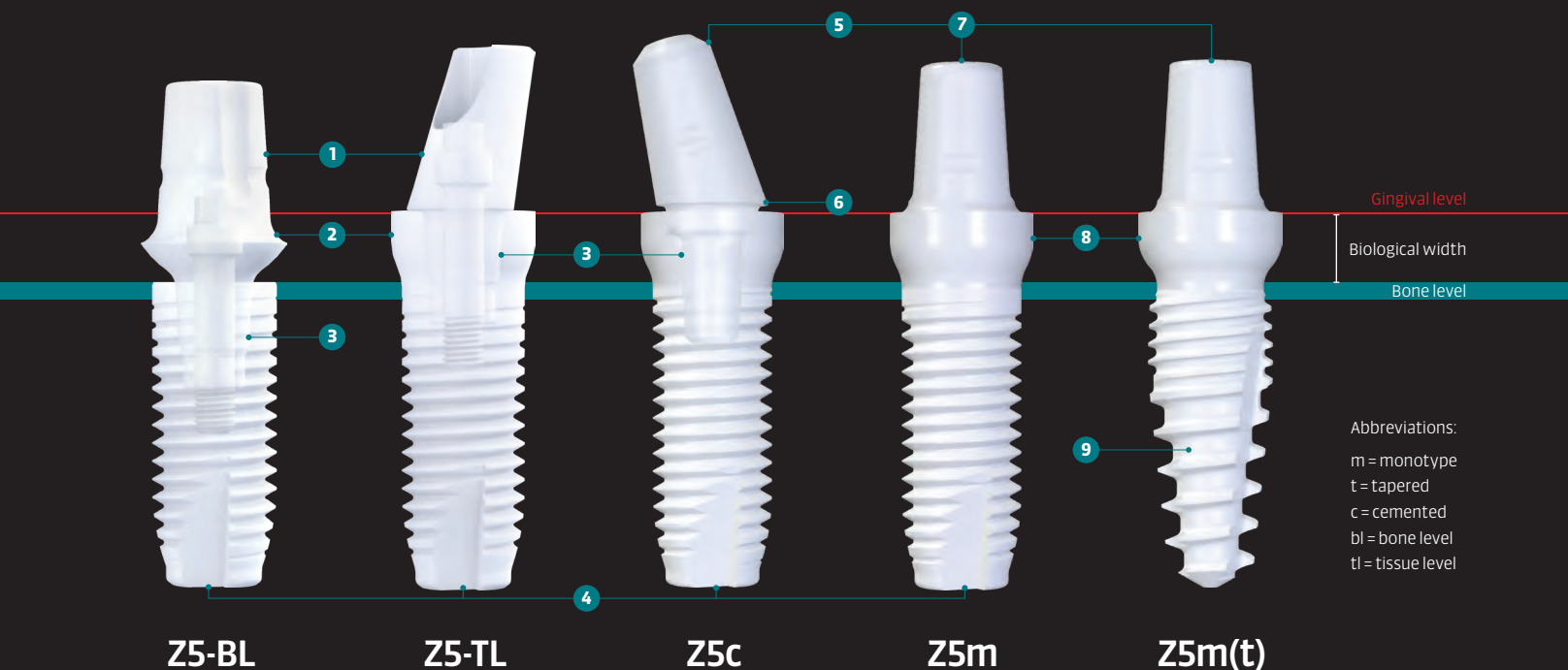
## Trusted pioneering advances.

Constant innovation, based on solid scientific experimentation, our unique product range and personal advice – your satisfaction is our goal. The road to reliable, safe material and design is a long one. We follow significant quality demands and continue successive developments. Safety without compromise is our highest motto, because we are convinced that only sustainable and safe implants ensure your success.

We are pleased to present you our complete product range on the following pages, and to win you over with our safe ceramic implants.

*Your Z-SYSTEMS Team*

- ✓ Survival rate comparable to that of titanium implants
- ✓ Secure osseointegration thanks to the hydrophilic SLM® surface
- ✓ Implant and abutment can be prepped
- ✓ Excellent biocompatibility
- ✓ Less plaque, better gum attachment
- ✓ Not electrically conductive, no galvanic elements, no currents
- ✓ Sustained aesthetic results



## The most advanced & versatile ceramic dental implants on the market today

- 100% ceramic, screw-retained, two-piece Bone/Tissue Level Implant: Surgical procedure analogous to two-piece titanium implantology.
- Straight and angled abutments in different abutment and gingival heights are available for aesthetically superior restorations.
- The extraordinarily stable implant-abutment connection plus outstanding break resistance ensure the highest level of safety.
- The conical, self-cutting threads ensure primary stability.
- Z5c, Z5m and Z5m(t) can be prepped.\* Zirkolith® material's high stability makes it possible to prep the implant to defined preparation limits. This unique ability in implantology means a great deal of freedom for the user for individual adjustment to existing anatomical circumstances.
- The secure form-fit of the abutment is achieved with its internal cone connection. The visible gap is by design, necessary for 100% friction.
- The abutment can be directly prepped in-situ. Thus one can provide customized, fast and low-cost care. The connection geometries of our structures are filed in the most-available CAD libraries (3D Diagnostix, Carestream, Materialise, Planmeca, Sicut, Vatech).
- This unique material makes it possible to prep the shoulder on a custom basis to defined preparation limits.\* The shoulder design makes it possible to produce the optimal soft tissue shape for a safe and aesthetic solution.
- The optimal combination of the conical basic form with dynamic, active and self-cutting threads achieves high primary stability even in soft D3 bone.

**All Z-SYSTEMS implants are provided with a hydrophilic surface! The laser-structured SLM®-surface has been shown to promote osseointegration due to its demonstrable increased roughness.**

\* Z-SYSTEMS has had the safety of manually-prepped Z-SYSTEMS implants tested by the renowned Fraunhofer Institute for Material Engineering. The results are clear. No significant impairment was found in the prepped implants. Manually prepped implants do not have a higher risk of breakage.



# Z5-BL The Bone Level implant

The world's first 100 % ceramic, two-piece, screw-retained implant-abutment connection

## Z5-BL 40-10

> Implant 4 mm × 10 mm

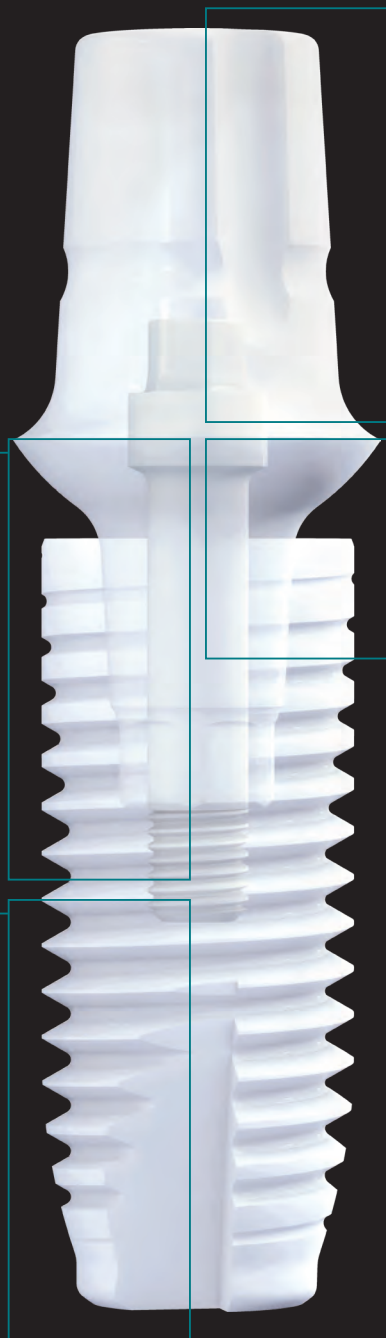


### 100% ceramic

- 100% ceramic, screw-retained, two-piece bone level implant
- Surgical procedure analogous to two-piece titanium implantology
- Closed healing, augmentation and simultaneous sinus lift is possible in suitable cases

### Experience from over 80,000 implants placed

- Established enossal design, based on tissue-level predecessors, ensures transferable results
- Self-tapping thread with bone chip reservoir reduces insertion torque
- Excellent osseointegration through Z-Systems's proven, patented proprietary SLM® laser surface technology and gentle plasma sterilization

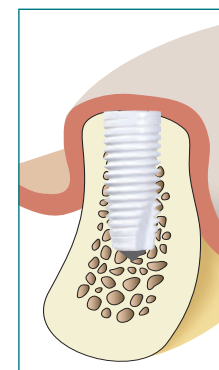


### Aesthetics for professional care

- Wide range of straight and angled abutments for optimal esthetic results and flexible functionality
- A wide range of options for designing the exit profile

### A unique, strong connection

- The conical screw connection with internal thread for micro-gap-free connection and prevention of a pump effect.
- NEW:** ceramic abutment screw for 100% all-ceramic restoration
- A titanium screw is also available as an option
- Platform switch for a more stable and enlarged mucosal cuff and for reduced loading of the crestal bone



## Z5-BL

The new screw-retained Bone Level Implant

	D 3.6 mm	D 4.0 mm	D 5.0 mm
8	Z5-BL-3608	Z5-BL-4008	Z5-BL-5008
10	Z5-BL-3610	Z5-BL-4010	Z5-BL-5010
12	Z5-BL-3612	Z5-BL-4012	Z5-BL-5012

■ = length in mm

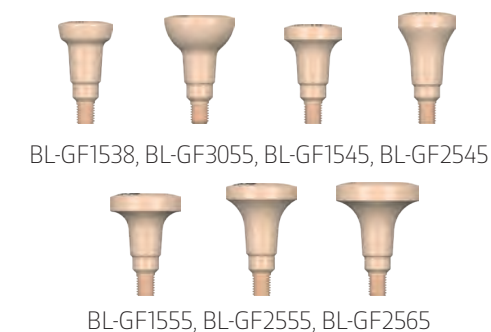
### Abutments (incl. screw of your choice and single-use screwdriver)



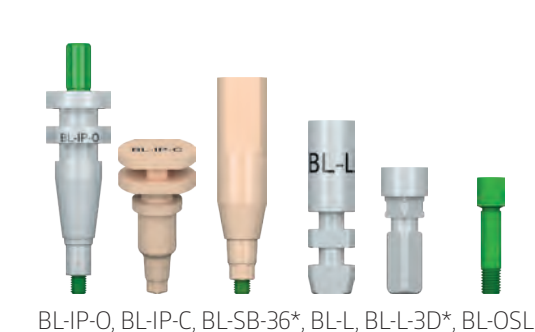
### Healing cap



### Gingiva formers



### Impression tools



\*Data integration in surgical and lab software in preparation.

### Screws



### Instruments



# Z5-TL

## The Tissue Level implant

The world's first 100 % ceramic, two-piece, screw-retained implant-abutment connection

### Z5-TL 40-10

> Implant 4 mm × 10 mm



#### 100% ceramic

- 100% ceramic, screw-retained, two-piece Tissue Level Implant
- Surgical procedure analogous to two-piece titanium implantology
- Optimized soft tissue management thanks to patented shoulder design

#### Experience from over 80,000 implants placed

- Established enossal design, based on tissue-level predecessors, ensures transferable results
- Self-tapping thread with bone chip reservoir reduces insertion torque
- Excellent osseointegration through Z-SYSTEMS's proven, patented proprietary SLM® laser surface technology and gentle plasma sterilization

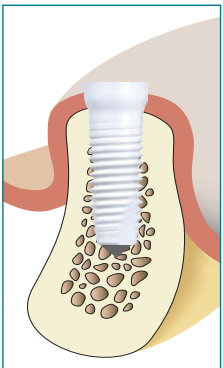


#### Aesthetics for professional care

- Wide range of abutments for optimal esthetic results and flexible functionality
- A wide range of options for designing the exit profile

#### A unique, strong connection

- The conical screw connection with internal thread for micro-gap-free connection and prevention of a pump effect.
- **NEW:** ceramic abutment screw for 100% all-ceramic restoration
- A titanium screw is also available as an option



### Z5-TL

The new screw retained Tissue Level Implant

	D 4.0 mm	D 5.0 mm
8	Z5-TL-4008	Z5-TL-5008
10	Z5-TL-4010	Z5-TL-5010
12	Z5-TL-4012	Z5-TL-5012

■ = length in mm

#### Abutments (incl. screw of your choice and single-use screwdriver)



TL-A0045, TL-A0055, TL-A1545, TL-A1555, TL-LC0015, TL-LC0030, TL-LC0040, TL-LC1515, TL-LC1530, TL-LC1540, TL-TA0060

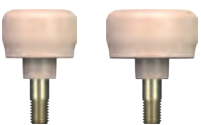
#### Healing cap

#### Gingiva formers

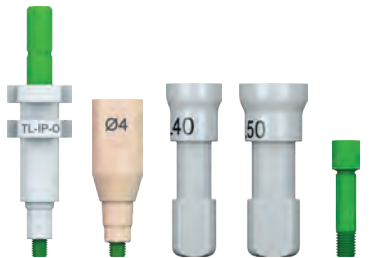
#### Impression tools



BL-HC



TL-GF4040, TL-GF5040



TL-IP-O, TL-SB\*, TL-L40, TL-L50, BL-OSL

\* Data integration in surgical and lab software in preparation.

#### Screws

#### Instruments



BL-OSC-H, BL-OST-H

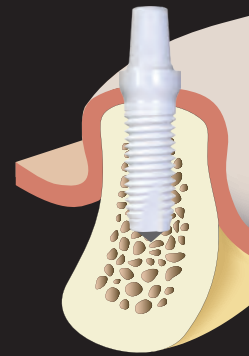


KI589, ZT-HA-9, ZT-RA10-9, ZT-RA20-9, TP-SNS, BL-SD-ST, BL-SD-LT, SD-BS-S, SD-BS-L, BL-CD

# Z5m



monotype

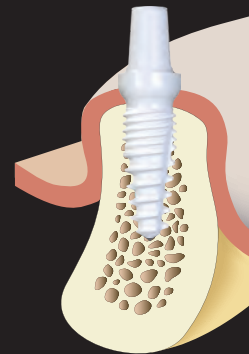


	D 3.6 mm	D 4.0 mm	D 5.0 mm
Length in mm			
8		Z5m-40-08	Z5m-50-08
10		Z5m-40-10	Z5m-50-10
12		Z5m-40-12	Z5m-50-12

# Z5m(t)



monotype tapered

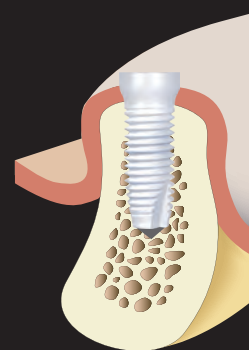


	D 4.0 mm	D 5.0 mm
Length in mm		
8	Z5m(t)-40-08	Z5m(t)-50-08
10	Z5m(t)-40-10	Z5m(t)-50-10
12	Z5m(t)-40-12	Z5m(t)-50-12

# Z5c



two-piece cemented



	D 4.0 mm	D 5.0 mm
Length in mm		
8	Z5c-40-08	Z5c-50-08
10	Z5c-40-10	Z5c-50-10
12	Z5c-40-12	Z5c-50-12

## Z5m – The trusted implant for a variety of indications

### Gingiva formers



G40, G40-0, G36, G36-0, G50, G50-0

### Impression caps



I36, I40, I50

### Laboratory analogues



L36, L40, L50

### Instruments



HA12, RA16\*, RA24\*

\*also for safe handling of the Z5c abutment when gluing in

## Z5m(t) – The implant for immediate implantation and soft bone qualities

### Gingiva formers



G40, G40-0, G50, G50-0

### Impression caps



I40, I50

### Laboratory analogues



L40, L50

### Instruments



HA12, RA16\*, RA24\*

### Special drills



TD170, TD230, CD355-1, CD455-1

\* also for safe handling of the Z5c abutment when gluing in

## Z5c – The successful implant for cemented tissue-level restoration

### Abutments



Z5c-A00-LC-H0/-H1.5, Z5c-A15-LC-H0/-H1.5



Z5c-A00/-4mm, Z5c-A15/-4mm

### Healing caps



Z5c-HC40



Z5c-HC50

### Gingiva formers



Z5c-G40-28, Z5c-G50-28



Z5c-G40-33, Z5c-G50-33

### Instruments

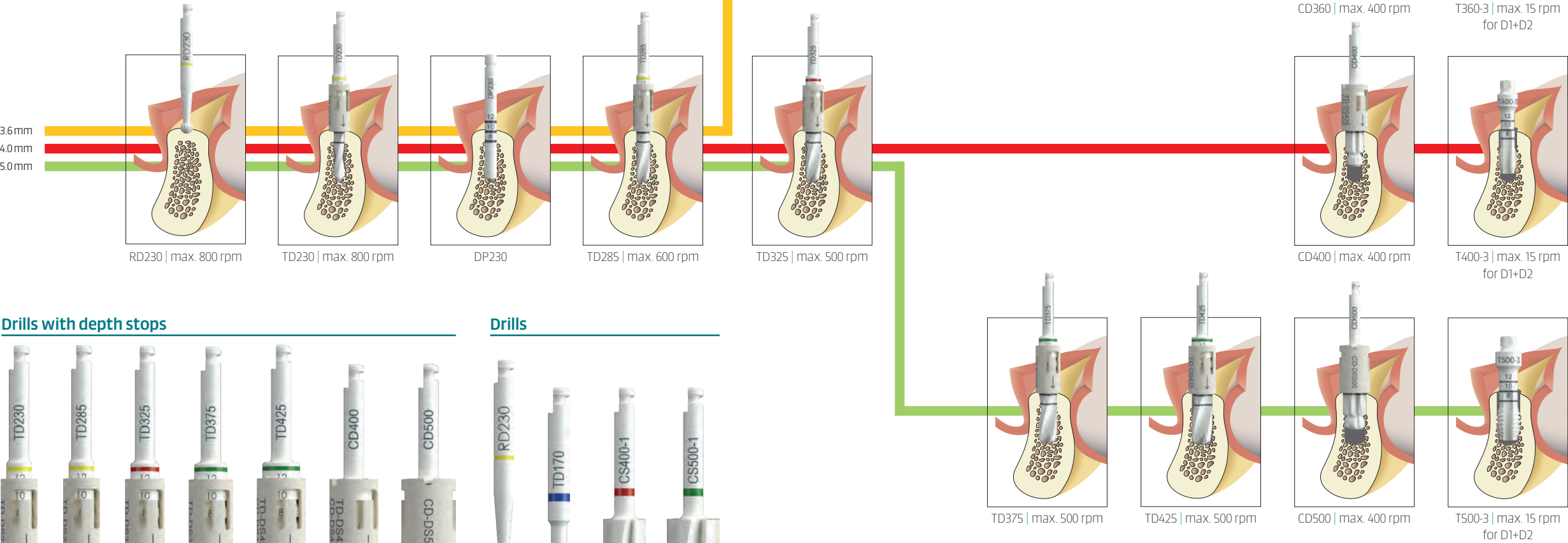


Z5c-HA12\*, Z5c-RA12, Z5c-RA16, Z5c-RA12-1 incl. screw, Z5c-RA16-1 incl. screw

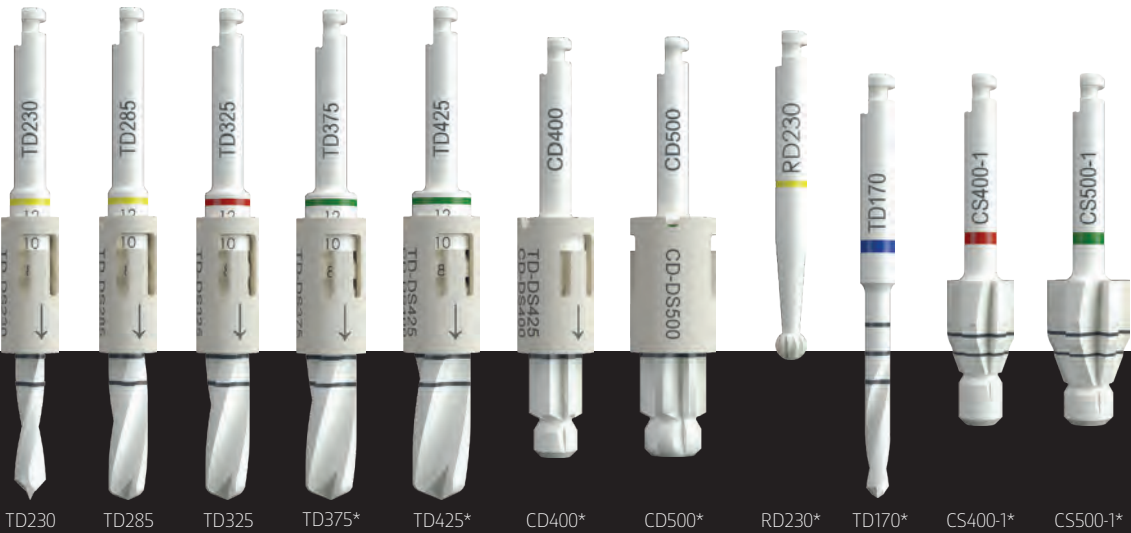
\* Application requires previous experience with manual insertion instruments



Drilling protocol Z5-BL



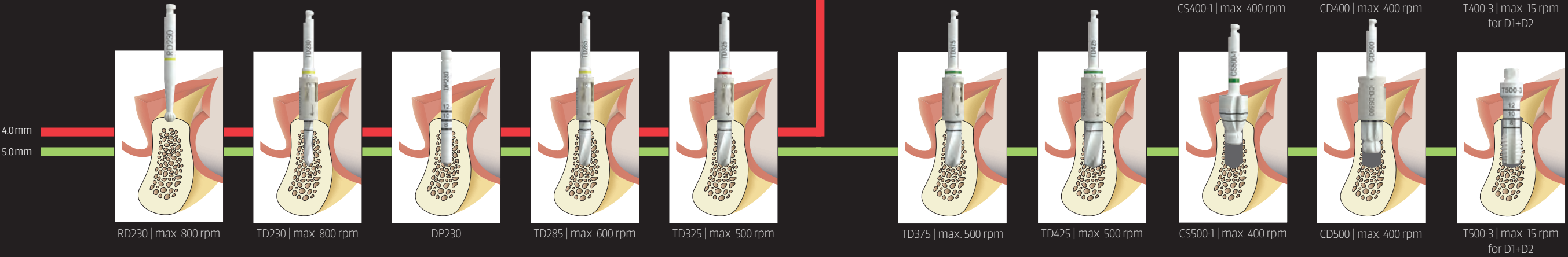
Drills with depth stops



Drills

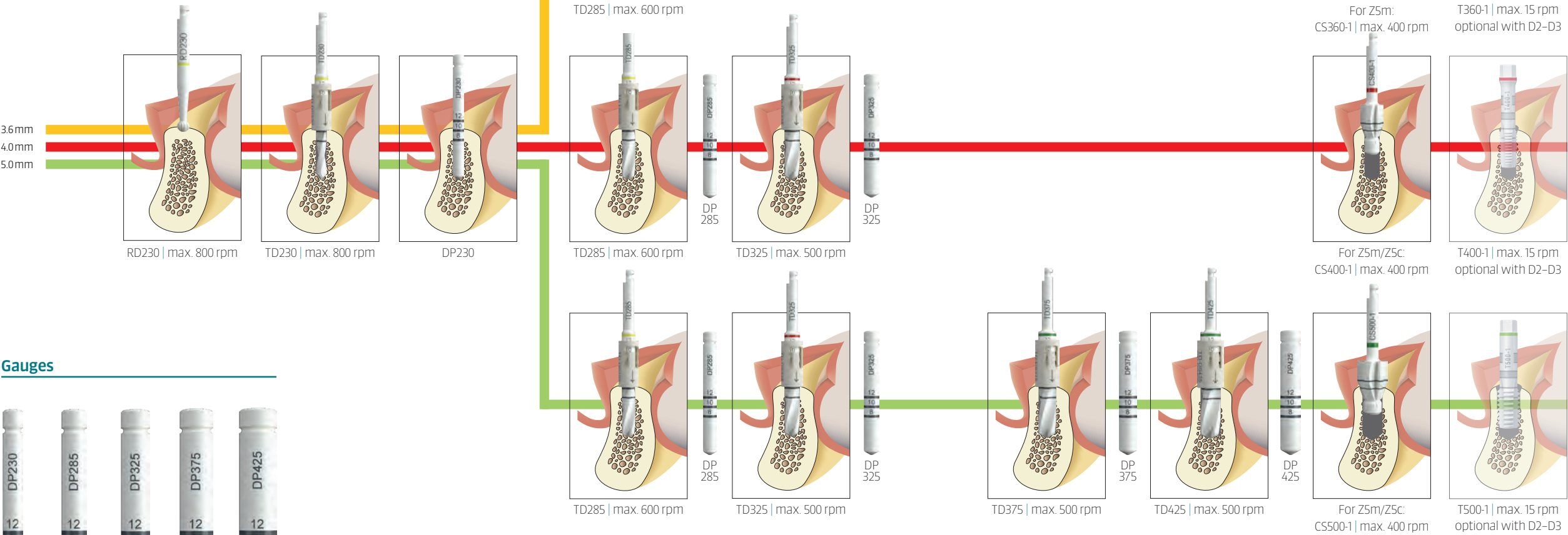
\*Used only in certain site preparations. See user manual of your selected implant type.

Drilling protocol Z5-TL

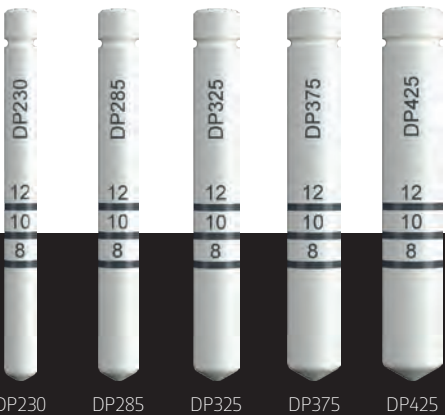


# Drilling protocol

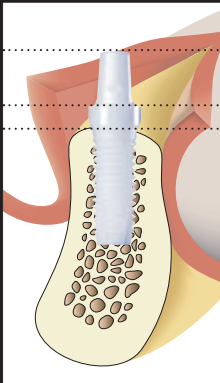
for Z5m and Z5c implants



## Gauges



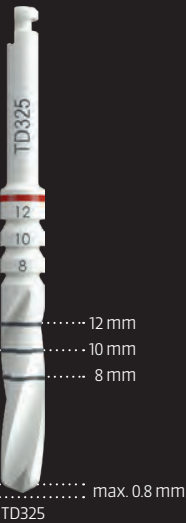
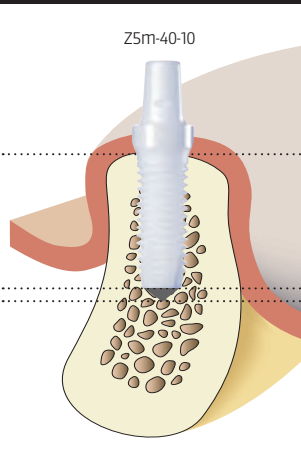
## Insertion Depth



Abutment 5mm  
Biolog. width 2.5mm  
bone level

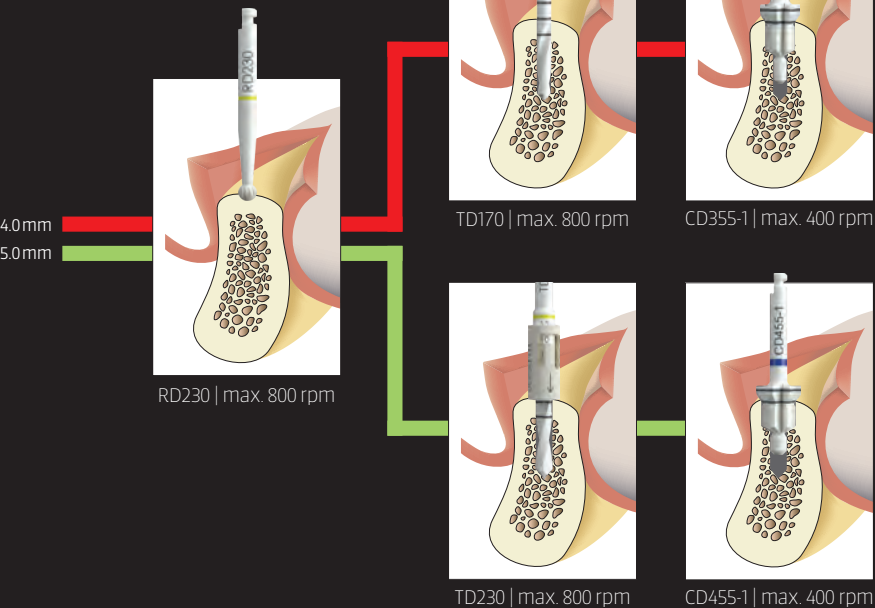
Z5m/Z5m(t)/Z5c

Drilling depth for Z5m and Z5c implants according to the implant length: 8/10/12 mm



# Drilling protocol

for Z5m(t) implants



Drilling depth for bone class D3/D4

	d 4mm			d 5mm		
Implant length (in mm)	8	10	12	8	10	12
TD170	8	10	12			
TD230				8	10	12



“

Having used Z-SYSTEMS all-zirconia implants for more than nine years, I have seen this company's commitment to continuously improving their products. They are currently introducing their sixth generation of zirconia implants to the U.S., when no other company is past their first generation zirconia implant in the U.S. market. In fact, most other companies haven't even been in the market for a year.

I look fondly at our 8-year results. The implants, the restorations, and the soft tissues look as beautiful as the day the implants were restored. There is no better motivation to go back again and again to Z-SYSTEMS products for each new case!



**Dr Ted Fields DDS PhD**  
Dallas, USA

”

# What our Doctors are saying

“

Z-SYSTEMS has opened up a whole new world of patient solutions in ceramic implants, with their full line of a 1-piece, 2-piece & Tapered Implants, it's no wonder they lead the market with the most trusted and tested full line of Ceramic Dental Implants. A proven alternative to Titanium Implants: finally making metal-free dentistry a reality



**Dr John Roberts, B.Ch.D**  
Huddersfield, GBR

”



“

What I like most is that with Z-Systems' broad product range, actually any clinical situation can be mastered. While one-piece implants still remain a safe value for certain cases, the two-piece screw-retained implant types now available open up even more possibilities. And since many of my patients have been wearing their implants for over 15 years, I know that with Z-Systems, long-term stability is also a given.



**Dr. Ralf Lüttmann**  
Eckernförde, GER

”

“

Z-SYSTEMS has been used at our practice for the past 6 years. Our long term results shows favorable clinical outcomes with excellent soft tissue contours and stable bone levels. Furthermore, having performed extensive microscopy and microanalysis research on Z-SYSTEMS implants, this material has shown to be durable and for the most part resistant to aging.

Z-SYSTEMS continuing commitment has been proven to me through their ongoing support of my research projects to allow for further enhancement and innovations of their products and in turn lead the Zirconia implant market!



**Dr Mona Monzavi DMD, MS**  
Beverly Hills, USA

”

“

Z-SYSTEMS is a true game changer in the implant arena. It is clear why Z-SYSTEMS leads the market with the most trusted ceramic implants in the world. Having used ceramic implants for the past 6 years, I was very excited to start using Z-SYSTEMS products in the last year.

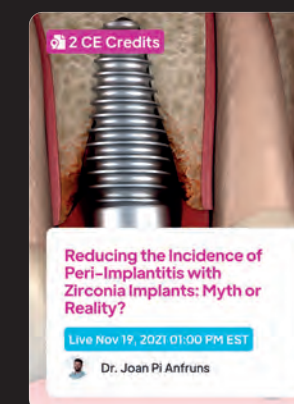
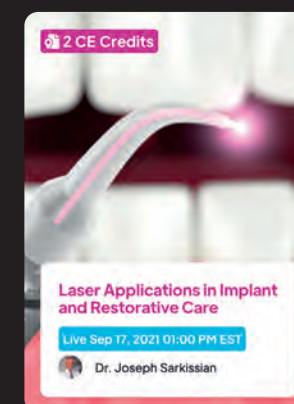
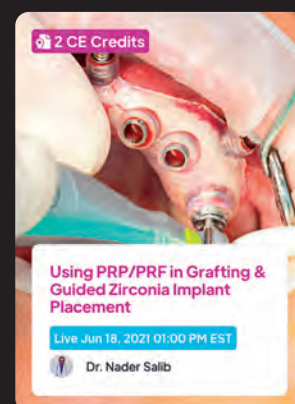
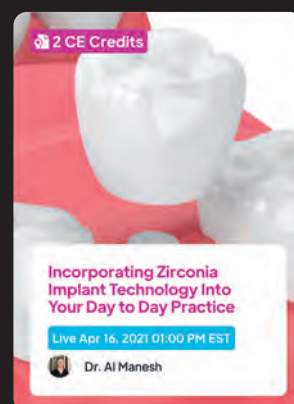
Z-SYSTEMS ongoing commitment to quality & continual innovations provide practitioners with more flexibility and options than any other ceramic implant company, and allows me to treat the specific needs of each and every patient.

History matters when it comes to quality treatments!



**Dr Al Manesh, Periodontist**  
Mission Viejo, USA

”



## Zirconia Implant Masterclass



LIVE OR ON DEMAND WEBINAR SERIES

Complimentary Tuition by Z-SYSTEMS



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ceramic implants

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