

# *bredent* Penguin<sup>RFA</sup>



- ✓ *non-invasive*
- ✓ *objective*
- ✓ *reproducible*
- ✓ *precise*

**Measuring device for implant stability**



# Suitable for immediate restoration?

The question of whether the fitted implant is suitable for immediate restoration often represents a challenge for the treating dentist. The torque in Ncm is used as standard when inserting the implant. The bredent Penguin<sup>RFA</sup> is the ideal solution as a supplement to the ratchet.

The bredent Penguin<sup>RFA</sup> is a device used to measure the stability of implants using the resonance frequency analysis (RFA). A small, magnetic measuring pin, the MultiTeg<sup>TM</sup>, is screwed into the implant or the abutment for this purpose and begins to vibrate without touching it. The value measured is shown as the "Implant Stability Quotient" (ISQ) and provides information regarding the appropriate treatment of the implant.

## The solution: the bredent Penguin<sup>RFA</sup>



## Benefits of the bredent Penguin<sup>RFA</sup>

- **Mobility**

The wireless bredent Penguin<sup>RFA</sup> offers all of the freedom of mobile work. Additional patient situations can be easily checked in other treatment rooms without being restricted to the surgery unit.

- **Process security**

The bredent Penguin<sup>RFA</sup> makes it possible to carry out predictable treatment, most notably in risk patients. The diagnosis device can be used to avoid complications, carry out immediate loading and reduce unnecessary costs and treatment times. As a result, process security is increased and the risk to patients is reduced.

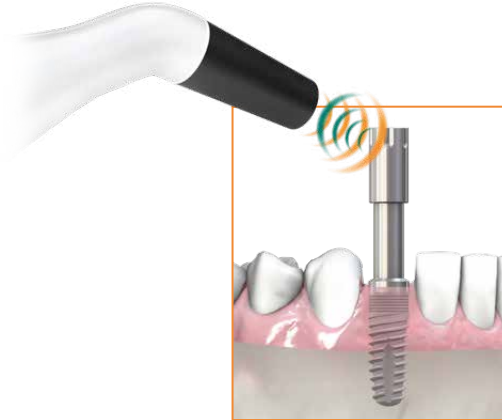
- **Economical accessories**

The magnetic MultiTeg<sup>TM</sup> is biocompatible, can be activated without touching it and can be sterilised up to 20 times. This means that high volumes of stock can be reduced to a minimum. This saves costs and reduces the amount of administration work.

# The measurement method



**1** With the so-called "Driver", the Multipeg™ is screwed into the implant or the abutment.



**2** The Multipeg™ begins vibrating as a result of short magnetic impulses from the tip of the breident Penguin<sup>RFA</sup>. The magnetic impulses interact with the magnets in the inside of the measuring pin.



**3** A receiver in the breident Penguin<sup>RFA</sup> records the magnetic alternating field of the vibrating magnets and uses this to calculate the resonance frequency and the resulting ISQ value. This value is shown on the bilateral displays after a few seconds.

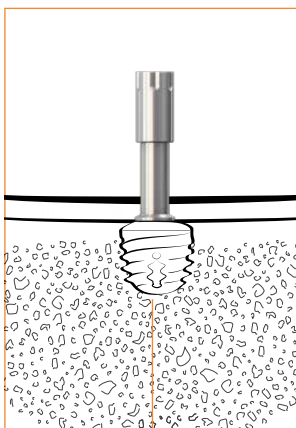


## Multipeg™

The Multipeg™ is available in four different sizes and makes it possible to measure primary stability in virtually all SKY® implant system implants.

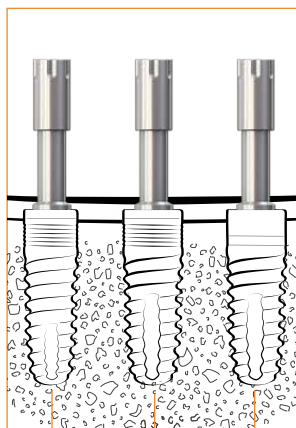
**New!**

Multipeg™ copaSKY®



copa  
**SKY** ☉

Multipeg™ SKY®

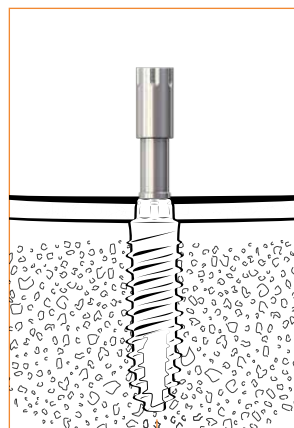


narrow  
**SKY** ☉

classic  
**SKY** ☉

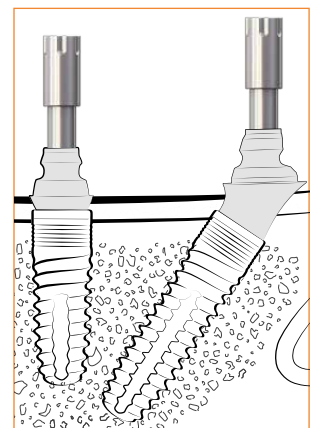
blue  
**SKY** ☉

Multipeg™ mini<sup>2</sup>SKY®



mini<sup>2</sup>  
**SKY** ★

Multipeg™ fast & fixed Abutment level



SKY® fast & fixed abutment  
and  
SKY® uni.cone abutment

# System overview *bredent* Penguin<sup>RFA</sup>

## Instrument Kit



Penguin<sup>RFA</sup> Instrument Kit  
REF 580PENGU

=



bredent Penguin<sup>RFA</sup>

+



MulTipeg<sup>™</sup> Driver  
REF 580MPDR1

+



Charging cable

## MulTipeg<sup>™</sup>



MulTipeg<sup>™</sup> SKY®  
blueSKY®, narrowSKY®, SKY®classic  
REF 580MPSKY



MulTipeg<sup>™</sup> mini²SKY®  
REF 580MPMI2



MulTipeg<sup>™</sup> copaSKY®  
REF 580MPCOP



MulTipeg<sup>™</sup> fast & fixed  
Abutment level  
REF 580MPFFA

## Sterile cover



Penguin<sup>RFA</sup> Cover  
1 set (20 pieces)  
REF 580PENG

## Ordering service

Online order form

[order.bredent-medical.com](http://order.bredent-medical.com)

Telephone

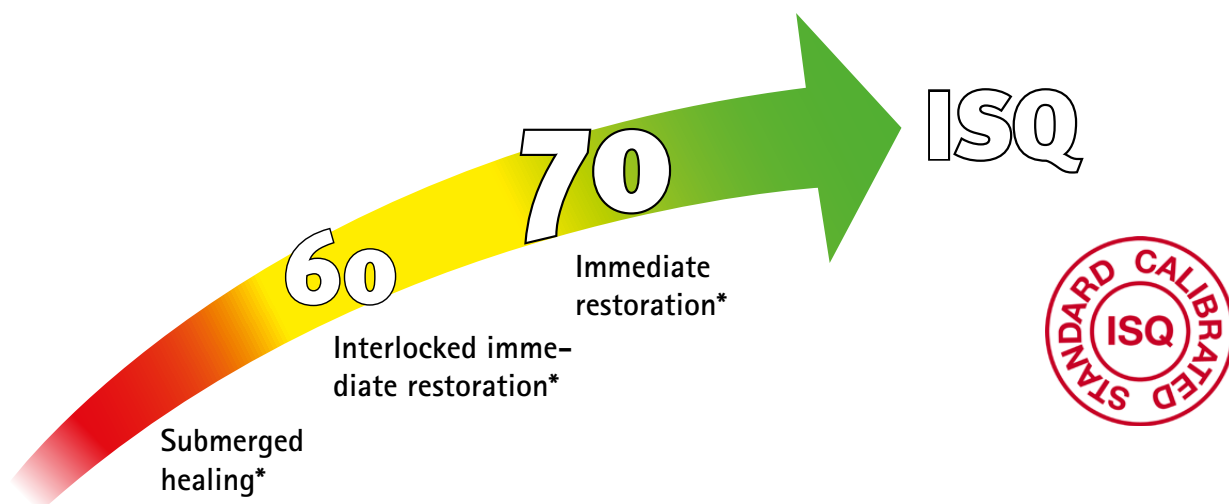
+49 7309 872-211

Fax order

+49 7309 872-24

## Technical data

Electricity supply	5 V, 1 A
Charger input	100 - 240 V, 5A
Weight of the bredent Penguin <sup>RFA</sup>	100 g
The bredent Penguin <sup>RFA</sup>	is intended for long-term operation
The bredent Penguin <sup>RFA</sup>	contains NiMH batteries



The ISQ value of 1–99 is a measurement of the stability of the implant – the higher the value, the more stable the implant. If the value is 70 ISQ or above, immediate restoration is possible. In the event of values between 55 and 70, we recommend interlocked immediate restoration. If the value is below 55 ISQ, the implant must undergo submerged healing. The bredent Penguin<sup>RFA</sup> measures the ISQ value to an accuracy of +/- 1 ISQ unit.



## Testimonial



**Prof. Dr. José Eduardo Maté Sánchez de Val. PhD, MSc, DDS.**

"In my opinion, the device should be used as standard, as it represents a safe and predictable solution for the user. In my scientific and clinical experience, the ISQ value is the most reliable value for determining the stability of implants. As a rule, I carry out immediate restoration of my implants with an ISQ value of 65 or above."

## Literature



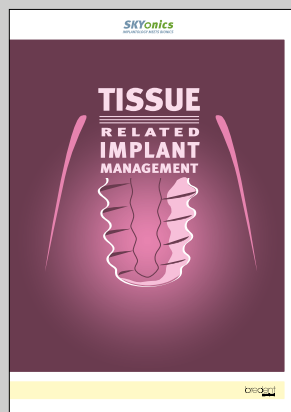
Worldwide, more than 700 articles have been published in peer-reviewed journals on the subject of implant stability since 1996.

We particularly recommend the publication by Professor Lars Sennerby (Resonance Frequency Analysis for Implant Stability Measurements, INTEGRATION DIAGNOSTICS UPDATE 2015;1:1-11).

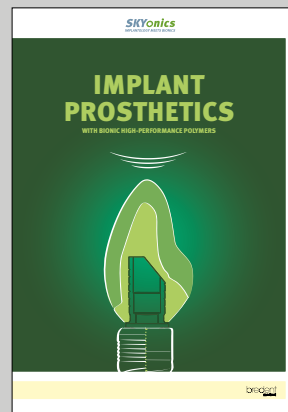
[www.bredentgroup.net/penguin-de](http://www.bredentgroup.net/penguin-de)



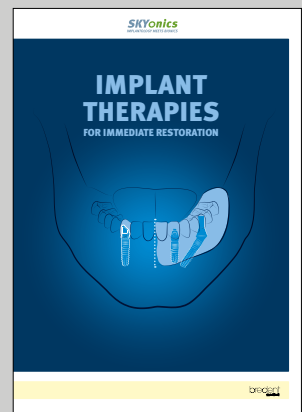
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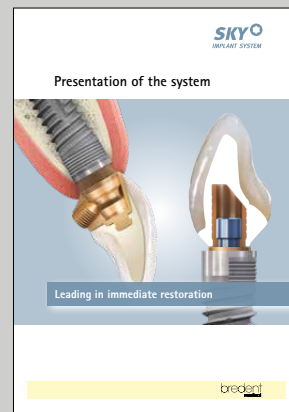
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