

# TWO STAGE

## IMPLANTS

*Heisinger*



**30<sup>TH</sup> ANNIVERSARY  
OF DENTI IMPLANT SYSTEM**

## IMPLANT

SYSTEMS FOR ALL INDICATIONS

## EDUCATION

DENTIDENT IMPLANT CLINIC

## MILLING DENTAL MILLING CENTRE

DENTI DIGITAL DENTAL TECHNOLOGY

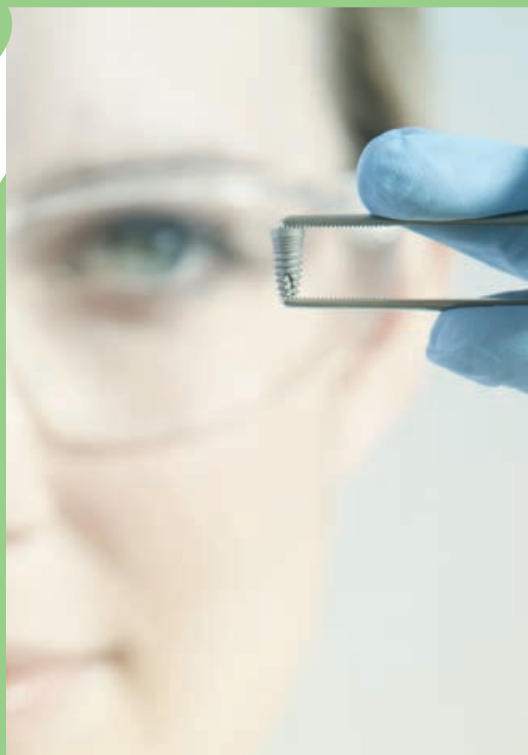
## RESEARCH

AND DEVELOPMENT

## PRODUCTION

OF THE HIGHEST TECHNICAL LEVEL

IN FOCUS



[WWW.DENTISYSTEM.COM](http://WWW.DENTISYSTEM.COM)

## 30-YEAR

OF SERVICE IN IMPLANTOLOGY



[WWW.DENTIIMPLANTCLINIC.HU](http://WWW.DENTIIMPLANTCLINIC.HU)

## MULTI LEVEL

COURSES FOR DOCTORS AND TECHNICIANS



[WWW.DENTMILL.HU](http://WWW.DENTMILL.HU)

## COMPLEX

DENTAL TECHNOLOGY SOLUTIONS



[WWW.DENTISYSTEM.COM](http://WWW.DENTISYSTEM.COM)

## INNOVATION

SINCE 1983



[WWW.MEISINGER.DE](http://WWW.MEISINGER.DE)

## QUALITY

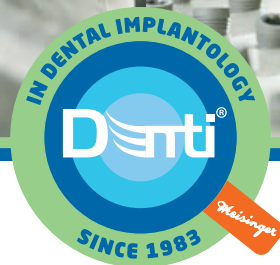
HUNGARIAN TRADITION  
GERMAN PRECISION

*Meisinger*





PROF. DR. ISTVÁN VAJDOVICH



## ABOUT US

### DENTI SYSTEM LTD.

Denti System Ltd. was founded in 1989 with the objective to develop and produce a dental implant system for the Hungarian dental practice that is widely available for dental patients in need and can be applied safely and economically by dentists. Our primary purpose was to fulfil the increasing demand of patients helping them to achieve a better quality of life.

### SMILE FOR EVERYONE

The high quality of our products is guaranteed by Hager & Meisinger GmbH /Germany/ that has been the manufacturer of our implants, instruments and implant system elements since the Spring of 2005 as well as supports our company by its development background.

### QUALITY AND TRADITION

The Denti® Implant System has 30 years of background. Its unbroken improvement is based on continuous research and development, theoretical knowledge collected since then and the experiences from the long term clinical practice. The always renewed, high quality Denti® Implant System is the result of many years of scientific experience and constant research and it is used both in Hungary and in other countries with great satisfaction. Denti® products can be easily, safely and highly successfully used in the everyday dental practice. The Denti® name is guaranteed by constant innovation and the strict quality assurance system.

## 30 YEARS OF INNOVATION

### RESEARCH AND DEVELOPMENT

Research activities of our company are primarily focused on dental implants, related instruments and specific surgical methods for implantation. A series of experimental and clinical studies supports our successful research and development activity in implantology. In this research and development activity we consider cooperation with our users as a top priority.

### EDUCATION

Education is important part of the activity of our company. We have delivered accredited course with recognized university professors since 1990. We organize courses both for beginner and expert implantologists-dentists and dental technicians. The purpose of our courses is to teach the participants to the practical methods of implantology by using Denti® Implant System and safely apply these methods in their everyday practice. We institutionalized our educational activities in Spring 2010 under the name of DentiDent Implant Clinic.



QUALITY „MADE IN GERMANY“



**Dentident**  
implant clinic+

THE OFFICIAL  
**EDUCATION CENTRE  
AND REFERENCE CLINIC  
OF DENTI® IMPLANT SYSTEM**



The **DentiDent Implant Clinic** as the Central Reference Clinic of the Denti System allows continuous professional training for those interested in implantology as well as dentists already working in the field of dental implantology. Our dentist team includes prominent persons from the Hungarian dentist community led by **Dr. István Vajdovich**, professor. The experience and archive data collected during the last 25 years give the opportunity to study almost any type of case. The DentiDent Implant Clinic will also help you to understand and learn implantology at the highest level.

**DENTIDENT IMPLANT CLINIC &  
AIRPORT HOTEL BUDAPEST\*\*\*\***

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**Denti**®

**DENTAL MILLING CENTRE  
DENTI DIGITAL DENTAL TECHNOLOGY**



**CAD-CAM PLANNING  
BRIDGES, CROWNS,  
INDIVIDUAL ABUTMENTS,  
HYBRID IMPLANT PROSTHESES**

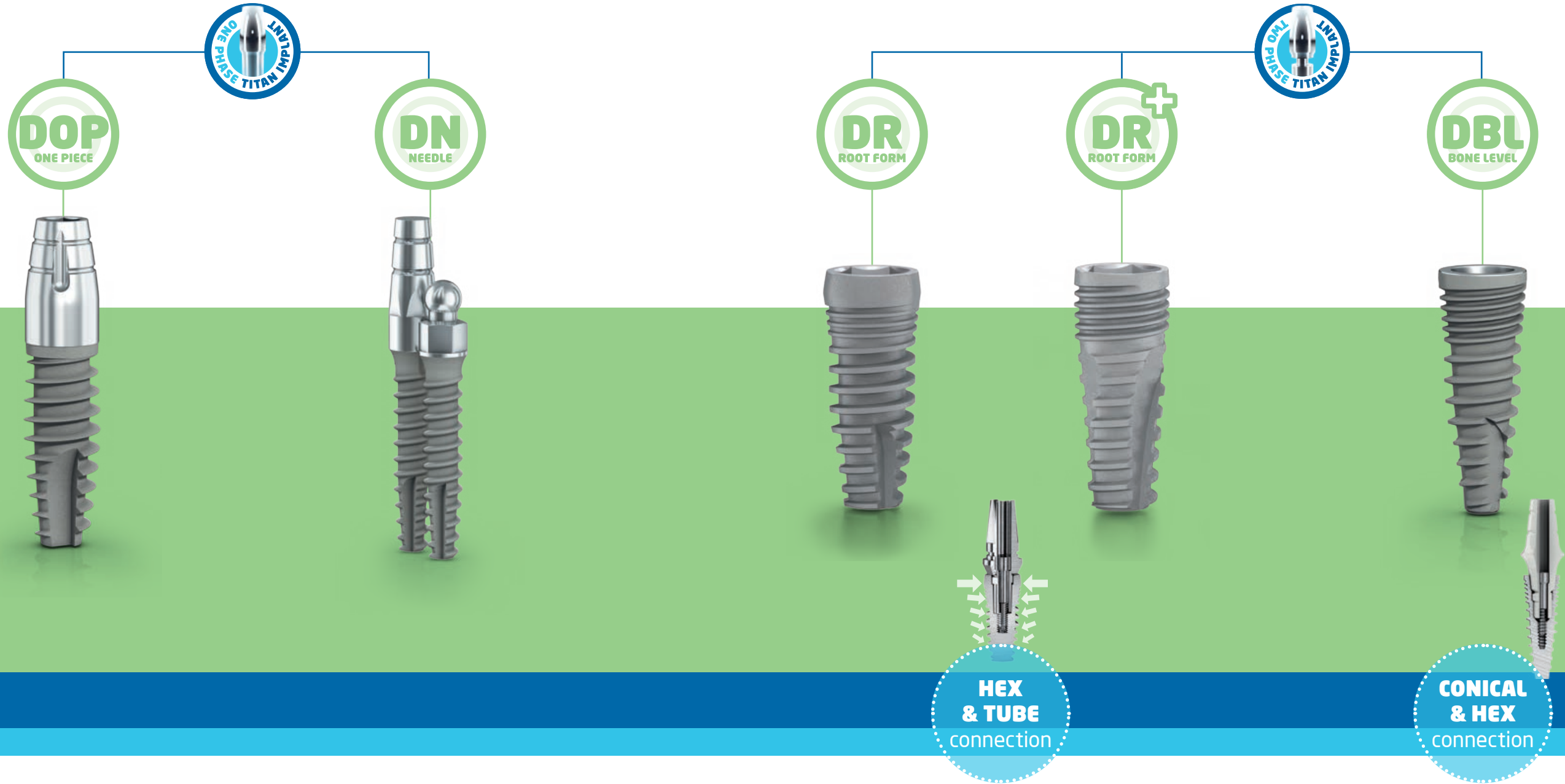
ZIRCONIUM, TITANIUM,  
COCR, 3M ESPE LAVA

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# DENTI® IMPLANT SYSTEMS



## TIMELINE





## DENTI® TWO STAGE IMPLANTS

### 30 YEARS OF CLINICAL INNOVATION

The first types (Denti® Diakor© Implant system) of the practice-oriented Denti® Implant System came out in 1983. The latest scientific research and the many years of clinical experience have been combined to develop a root form Denti® implant type.



**HEX & TUBE**  
connection

- two-stage root form geometry
- for the optimal distribution of the occlusal force in the bone tissue
- self-tapping design
- for the ideal screw-in torque
- wide, deep threads
- for the immediate loading
- double threaded design at the neck
- for an excellent primary stability even in case of lower bone quality
- to preserve the level of the periimplant bone tissue

## DENTI® TWO STAGE IMPLANTS

### FOR ALL INDICATIONS

Denti® Bone Level implants are recommended for the replacement of all types of tooth losses:

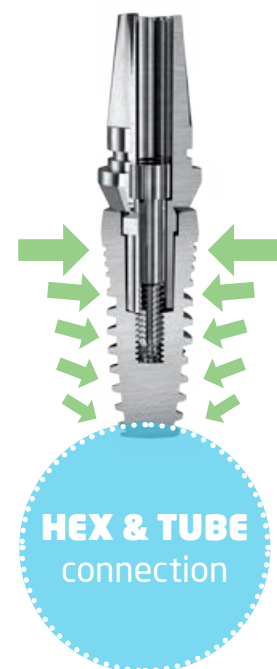
- for the replacement of single or short-span tooth losses
- for a multi-unit fixed prosthesis for the replacement of tooth losses at the end of the arch, or long-span or subtotal tooth losses
- in case of total edentulousness

Their placement is primarily recommended in esthetically important places, and in cases where the special abilities of the platform switch (preserving the periimplant bone level and the integrity of the mucoperiosteum) are required.

- micromovement free implant-abutment connection
- safe for subcrestal implantations
- fully complies with the "tissue care concept"
- primarily suggested at aesthetically important sites and cases
- when platform switch is needed to maintain periimplant bone and mucoperiosteum



**CONICAL & HEX**  
connection



## DENTI® TWO STAGE IMPLANTS

### CONNECTION

PERFECT CONNECTION - LONG TERM STABILITY

Rotation-safe connection. Denti® Root form implants are designed with double anti-rotational level:

- the precise internal hexagon is designed for anti-rotation
- long parallel-running walls are designed for distribution of lateral loads

This kind of connection allows strong tightening between implant and abutment. These features reduce stress on abutment screws, ensure stability and therefore result in minimal or no loosening.

### SIZE OPTIONS

The Denti Bone Level Implants are available in 4 different diameters and 4 length.

DIAMETERS	3,3 mm	3,8 mm	4,3 mm	4,8 mm	5,3 mm
LENGTHS	-	9,5 mm	9,5 mm	9,5 mm	9,5 mm
	11,5 mm	11,5 mm	11,5 mm	11,5 mm	11,5 mm
	13,5 mm	13,5 mm	13,5 mm	13,5 mm	13,5 mm
	15,5 mm	15,5 mm	15,5 mm	15,5 mm	15,5 mm

DIAMETERS	3,8 mm	4,3 mm	4,8 mm
LENGTHS	9,5 mm	9,5 mm	9,5 mm
	11,5 mm	11,5 mm	11,5 mm
	13,5 mm	13,5 mm	13,5 mm

## DENTI® TWO STAGE IMPLANTS

### PROSTHETIC AND LABORATORY ACCESSORIES

- for all kind of dentures
- many types of abutments



## DENTI® DR, DR+ INSTRUMENTS

### TWO TRAY DESIGNS

- ECO design
- PROFESSIONAL design



QUALITY „MADE IN GERMANY“

*Meisinger* 125 YEARS

All instruments produced by  
HAGER&MEISINGER GMBH, GERMANY.





## DENTI® BONE LEVEL IMPLANTS

### THE PHILOSOPHY BEHIND DENTI® BONE LEVEL IMPLANT

It has been known for long in oral endosseous implantology that a cone-shaped, varying-degree bone tissue resorption takes place around the shoulder of the implants inserted into the jaws using a two-stage surgical method within a few months after the second surgery. It is a fact proven by scientific methods that the peri-implant bone loss is primarily caused by the inflammation-inducing agents of the bacteria colonizing the micro-gap (the interface) between the implant body piece and the abutment.

We now know that a secure interface between the body piece and the abutment that inhibits bacterial colonization can be established using an implant body-abutment design that is based on a principle known as “self-locking cone” in mechanics.

#### THE SELF-LOCKING CONE IMPLANT BODY-ABUTMENT INTERFACE MUST MEET THE FOLLOWING REQUIREMENTS

- the micro-gap on the interface must be no wider than 5 µm
- the abutment must not have micro-movements
- the torque required to secure the abutment should preferably not exceed 20 Ncm
- the abutment must remain removable and replaceable if needed.



## DENTI® BONE LEVEL IMPLANTS

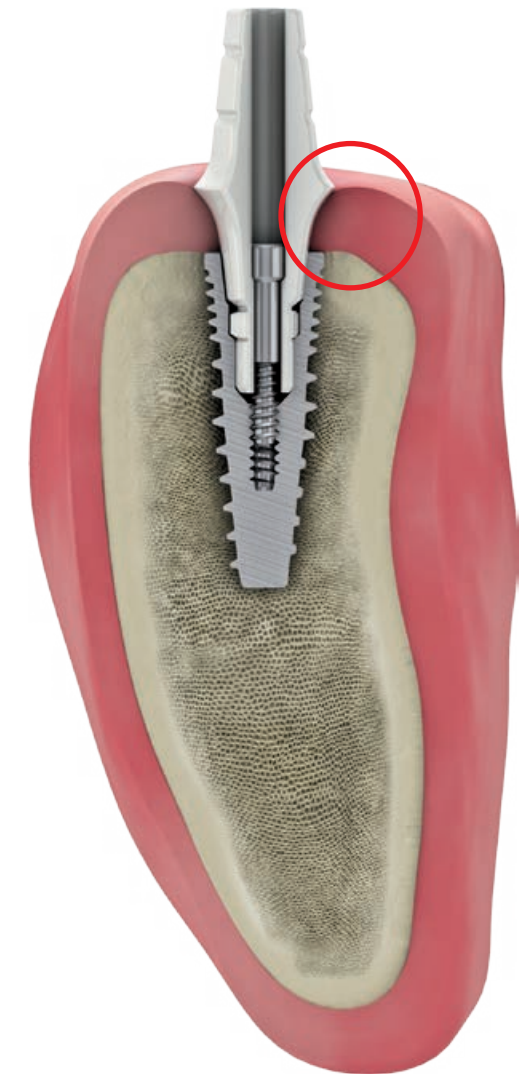
### “TISSUE CARE CONCEPT” - TISSUE STABILITY

There are five criteria that are each required for permanently preserving the peri-implant tissues and their stability, and that have an important role in maintaining the esthetics and function of the denture retained on the implants and ensuring its longterm success.

#### THESE ARE THE FOLLOWING:

- no micro-gap between the body piece of the implant and the abutment
- micromovement-free connection between the body piece and the abutment
- subcrestal placement of the implant
- wide platform switch between the implant and the abutment
- veneer crown designed for microstructured implant shoulder (the abutment should be designed in accordance with the gingival margin so that the veneer crown can be placed following the course of the gingival margin)

The structure design of the Denti® BL implants fully meets these requirements. The optimal size and design of the angle of the internal cone and the high precision of the corresponding surface of the abutment ensure that there is no micro-gap on the interface, and that the abutment has no micro-movements. The hexagonal design below the cone facilitates the secure screwing in of the body piece, whereas the apical cylindrical process has an important role in the optimal-direction transfer of the masticatory forces acting on the abutment. We recommend applying a torque of 20 Ncm when tightening the through bolt that secures.







# DENTI® BONE LEVEL IMPLANTS

## CONNECTION

MULTIPLE "CONE-HEX-TUBE" CONNECTION

## SELF-SEALING CONE

- micro-gap free
- micro-motion free

## HEX

- safe insertion
- rotation-free
- right position





## TUBE

- accurate abutment insertion
- optimal distribution of lateral loads toward the implant body

## SIZE OPTIONS

THE BEST CHOICE FOR EVERY BONE QUALITY

Denti® Bone Level implants are available in 4 diameters and 4 lengths.

				
DIAMETERS	3,8 mm	4,3 mm	4,8 mm	5,3 mm
	9,5 mm	9,5 mm	9,5 mm	9,5 mm
LENGTHS	11,5 mm	11,5 mm	11,5 mm	11,5 mm
	13,5 mm	13,5 mm	13,5 mm	13,5 mm
	15,5 mm	15,5 mm	15,5 mm	15,5 mm

# DENTI® BONE LEVEL IMPLANTS

## PROSTHETIC AND LABORATORY ACCESSORIES

- wide platform switch between the implant and the abutment



# DENTI® DBL INSTRUMENTS

## TWO TRAY DESIGNS

- ECO design
- PROFESSIONAL design



QUALITY „MADE IN GERMANY“



All instruments produced by HAGER&MEISINGER GMBH, GERMANY.

DENTI**GUIDE**  
provided by SMART

A GUIDED TECHNOLOGY  
DESIGNED FOR DENTI<sup>®</sup>  
IMPLANT SYSTEM.

THE MOST ADVANCED GUIDED SYSTEM  
TOTALLY FITTING INTO YOUR DAILY  
PRACTICE

- straightforward and quick procedure for all edentulous cases
- simple planning on a clear software platform
- denti implants integrated into the software
- high quality surgical guide with a patient specific surgical protocol arriving on the following day of the first patient visit

SURGICAL TOOLS COMPLETELY IN LINE  
WITH THE ENTIRE TECHNOLOGY

ONE SYSTEM CONTAINING  
THE ENTIRE WORKFLOW

**SURGICAL PLANNING**

**GUIDED IMPLANT SITE PREPARATION**

**GUIDED IMPLANT PLACEMENT**

BONE

Ossyresorb<sup>®</sup>  
*Bone & Tissue*

## OSSYRESORB<sup>®</sup>

The Ossyresorb is a completely absorbable bioceramics for using as a bone substitute for specific bone losses of the alveolar ridge. Ossyresorb granules consists of pure  $\beta$ -tricalcium phosphate. Due to its porous structure it is similar to natural bone. After integration into the newly developed bone tissue it maintains its volume and can be used safely to supplement peri-implant bone losses.

### OSSYRESORB<sup>®</sup> BONE SUBSTITUTION MATERIAL

- completely synthetic material
- consists of phase-pure  $\beta$ -tricalcium phosphate
- it is gradually absorbed and integrated into the bone tissue; it is readily absorbed in physiological environment (remodelling takes approx. 4 to 6 months depending on the environment)
- due to porosity of granules it has large physiological surface
- its biological features will make them similar to the human bone tissue

### SIZE AND PACKAGING OF OSSYRESORB GRANULES

**0,3-0,4 mm** - for substitution of smaller specific bone losses.

**0,4-0,8 mm** - for substitution of small to medium bone losses (for so called lateral augmentation), and for filling of cysts and for bone substitution for smaller sinus lifts.

**0,8-1,25 mm** - for elevation of dilated sinuses and augmentation of bone losses extending to large surface





FABRICATED WITH **GERMAN** PRECISION



ISO, CE, WARRANTY  
EN ISO 9001 and EN ISO 13485.  
The Denti® products are CE marked.  
All Denti® products undergo strict testing  
by the Quality Department.



The Denti® System Ltd.  
commits itself to a 10-year period warranty  
after purchase to substitute its implants.  
The procedure for substitution is detailed  
in the General Terms and Conditions.

WWW.DENTISYSTEM.COM