



Company Brochure



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## Leading to human's well-being life

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"Pursuing human happiness and healthy life" is the ultimate value DIO Implant is looking for.

With the best technology and human resources,

DIO Implant strives for its ultimate goal providing the best services and products,

"Creating values for the customers" is DIO Implant business managing principle.

What DIO has developed all along is not only products or technology,

but also meeting customer's needs and satisfaction,

"World-class high-end medical company" is what DIO Implant wants to be in the future

With our foundation in 1983 with belief in customers' values and technology,

DIO has grown to KOSDAQ registered company through various businesses, dental implants, dental products, clinic opening, toothpaste, and stent.

DIO will continue to improve itself as a world-class medical company.

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## Company Brochure

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## CEO Message



Based on talented people and technologies, DIO makes the best products and services, and is trying its utmost to be successful as a professional medical equipment company contributing to health and happiness of the human being.

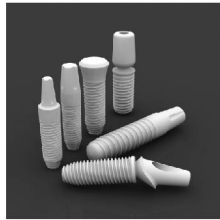
Medical products and biotechnology industries have infinite possibilities in the future. Through technology convergence with continuously developing IT and NT, the biotechnology industry is expanding and it is the fastest growing and the most promising high-tech, high-value business.

In order to drive current market that dream technologies are being realized, based on innovations and changes to prepare for the new era, DIO promises to put in its efforts to herald a world and future that our customers dream of.

Young Hwan Cho DDS,MSD,PH.D  
President & CEO



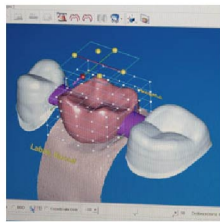
## Business Areas



### DIO Implant Business

Dental Implant  
Medical Equipment & Instrument  
Dental Clinic Opening Assist  
(Loan, Interior & IT)  
DIA (DIO Implant Academy) Seminar Program

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### Dental CAD/CAM Business

Advanced Intraoral Scanner  
Easy access Software  
Precise and Fast Milling system

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### Dental Product Business

Dental Products  
Implant Surgical Devices  
Dental Materials

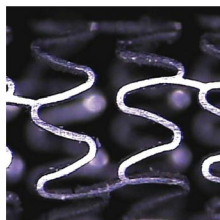
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### Medical Business

HAp(Hydroxyapatite) / HAp-Mastic Toothpaste  
PRTC(Professional Re-Enameling Tooth Cleaning) Paste  
Nano-HAp Toothfoam

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### Stent Business

Coronary Artery Balloon Expand Stent  
Coronary Artery Balloon Catheter  
Percutaneous Transluminal Coronary Angioplasty

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# Product Lineup

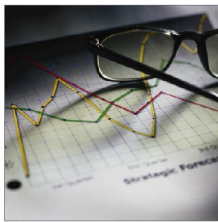
1. Dental Implant
2. Dental Product
3. Stent

## About DIO Implant



### Total Implant Solution

DIO implant provides a perfect solution in any type of clinical case, and with a wide range of implant line-up, It offers a perfect solution for both user's convenience and patient's conditions.



### Continuous Investment

Per continuous and long-term investment plan in the Dental Implant market based on outstanding financial status (AAA credit rating), DIO Implant is investing into various R&D centers, R&D personnel, and educational seminars.



### Expansion of Business Structure

DIO Implant is introducing and supplying dental products, and providing services to meet customers' satisfaction, not only with dental implants, but by joining with the world-class dental and medical equipment companies. Moreover, DIO implant is developing the 3rd generation EPC stents and surgery instruments and, selling premium toothpaste containing FDA approved hydroxyapatite. DIO implant always keeps track of market change and is always in pursuit of future businesses.



### Cutting Edge Production System

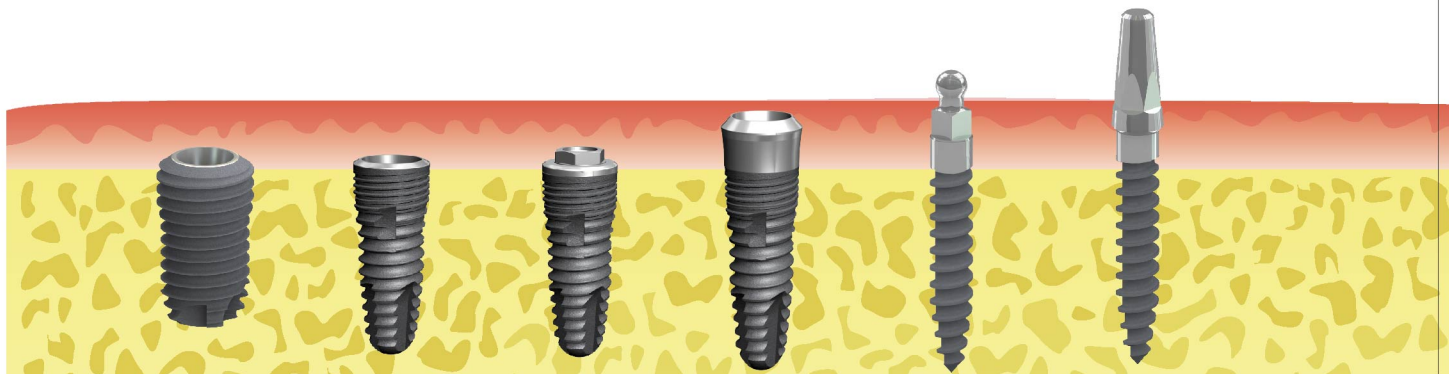
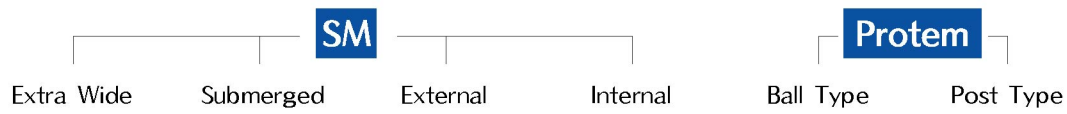
Equipped with the latest machining and cleaning system, DIO implant has a systematic manufacturing system from purchasing to shipping. DIO implant is doing its best for zero-defect parts.



### Strict Quality Management

Under the standard quality management system of ISO 13485 and ISO 9001, DIO Implant obtained most of global medical device licenses including FDA, CE, KFDA, and GMP.

**DIO Implant system** – Choose your implant size: Mini to Extra-wide  
 – Choose your implant case: Internal, External, Submerged



**SM-Extra Wide**

**Torx Internal Connection**  
 Superior to Hex internal connection more fixture and driver contact no distortion with high torque.

**Morse Tapered**  
 Abutment is easier to insert along the internal 8° morse tapered surface.  
 Due to the wider fixture and abutment contact, free from screw loosening.

**Platform Switching**  
 "Platform Switching" technique is applied to the design of implants and abutments to reduce crestal bone loss.

**Body Design**  
 Tapered-body provides easy adjustment of insertion depth and enables excellent initial stability.  
 Reduces possibility of touching adjacent teeth root during implant insertion.

**Self Tapping**  
 Advanced Thread and apex design enable easy self tapping and excellent initial stability in extraction sockets.

**Surface**  
 Biocompatible RBM,  
 Bio-active Brushite (CaP) Coating.

**Compatibility with others**  
 Perfectly compatible with regular and wide size abutments of SM-S.

Diameter	Ø5.9 Ø6.4 Ø6.9
Length	6, 8, 10 (mm)

**SM-Submerged**

**Torx Internal Connection**  
 Superior to Hex internal connection more fixture and driver contact no distortion with high torque.

**Morse Tapered**  
 Abutment is easier to insert along the internal 8° morse tapered surface.  
 Due to the wider fixture and abutment contact, free from screw loosening.

**Platform Switching**  
 "Platform Switching" technique is applied to the design of implants and abutments to reduce crestal bone loss.

**Double Thread**  
 Stable initial stability and prevents cortical bone loss.

**Root Form design**  
 Root form design enables excellent initial stability.  
 Reduces possibility of touching adjacent teeth root during implant insertion.

**Self Tapping**  
 Advanced thread and apex design enable easy self tapping and excellent initial stability in extraction sockets.

**Surface**  
 Biocompatible RBM,  
 Bio-active Brushite (CaP) Coating.

Diameter	Ø3.8, Ø4.1, Ø4.5, Ø5.0, Ø5.3
Length	8, 10, 12, 14 (mm)

**SM-External**

**Platform Switching**  
 "Platform Switching" technique is applied to the design of implants and abutments to reduce crestal bone loss.

**Double Thread**  
 Stable initial stability and prevents cortical bone loss.

**Root Form design**  
 Root form design enables excellent initial stability.  
 Reduces possibility of touching adjacent teeth root during implant insertion.

**Self Tapping**  
 Advanced Thread and apex design enable easy self tapping and excellent initial stability in extraction sockets.

**Surface**  
 Biocompatible RBM

**Compatibility with others**  
 Perfectly compatible with abutments of FTN and FSN.

Platform	Ø3.5	Ø4.1	Ø5.1
Diameter	Ø3.8	Ø4.5	Ø5.3
Hex	2.4	2.7	3.4
Length	8, 10, 12, 14 (mm)		

**SM-Internal**

**Torx Internal Connection**  
 Superior to Hex internal connection more fixture and driver contact no distortion with high torque.

**Morse Tapered**  
 Abutment is easier to insert along the internal 8° morse tapered surface.  
 Due to the wider fixture and abutment contact, free from screw loosening.

**Double Thread**  
 Stable initial stability and prevents cortical bone loss.

**Root Form design**  
 Root form design enables excellent initial stability.  
 Reduces possibility of touching adjacent teeth root during implant insertion.

**Self Tapping**  
 Advanced Thread and apex design enable easy self tapping and excellent initial stability in extraction sockets.

**Surface**  
 Biocompatible RBM,

**Compatibility with others**  
 Perfectly compatible with abutments of 4,8 IFI, PSI.

Platform	Ø4.8	Ø6.5
Diameter	Ø3.8 Ø4.5	Ø5.3
Collar	2	
Length	8, 10, 12, 14 (mm)	

**ProTem/Secure (Ball Type)**

**Denture Case**  
 Applicable in edentulous case or narrow osteotomy site.

**Surface**  
 Biocompatible RBM,  
 Bio-active Brushite (CaP) Coating.

**Simple Components**  
 Ease fabrication of denture by using Ball Cap and Lab Analog.

**Design**  
 Tapered-Straight-Tapered thread profile enables easy self-tapping and initial stability.  
 Flapless surgery made possible.

Diameter	Ø2 Ø2.5	Ø3
Length	10, 12, 14	10, 12, 14, 16
Collar	2, 4 (mm)	





### ProTem/Secure (Post Type)

Applicable in narrow osteotomy site like maxillary centrals. One-body design endures high loading pressure.

**Surface**

Biocompatible RBM, Bio-active Brushite (CaP) Coating.

**Driver Connection**

Prevents prosthesis rotation and post part can be milled and be used as customized abutment.

**Design**

Tapered-Straight-Tapered thread profile enables easy self-tapping and initial stability, Flapless surgery made possible.

Diameter	Ø2	Ø2.5	Ø3
Length	10, 12, 14	10, 12, 14, 16	
Collar	2, 4		

(mm)

### PSI (Internal Straight)

**Torx Internal Connection**

Superior to Hex internal connection more fixture and driver contact no distortion with high torque, Non-submerged type.

**Morses Tapered**

Abutment is easier to insert along the internal 8° morse tapered surface, Due to the wider fixture and abutment contact, free from screw loosening

**Surface**

Biocompatible RBM

Platform	Ø4.8		Ø6.5
Diameter	Ø3.5	Ø4.1	Ø4.8
Collar	1.8	1.8, 2.8	2
Length	8, 10, 12, 14		

(mm)

### IFI (Internal Tapered)

**Torx Internal Connection**

Superior to Hex internal connection more fixture and driver contact no distortion with high torque Non-submerged type.

**Morse Taper**

Abutment is easier to insert along the internal 8° morse tapered surface due to the wider fixture and abutment contact, free from screw loosening.

**Double Thread**

Stable initial stability and prevents cortical bone loss.

**Body design**

Root form design enables excellent initial stability, Reduces possibility of touching adjacent teeth root during implant insertion.

**Self Tapping**

Advanced thread and apex design enable easy self tapping and excellent initial stability in extraction sockets.

**Surface**

Biocompatible RBM.

Platform	Ø4.8		Ø6.5
Diameter	Ø3.5	Ø4.1	Ø4.8
Collar	1.8	1.8, 2.8	2
Length	8, 10, 12, 14		

(mm)

### FSN (External Straight)

Submerged type implant system with external hex connection.

**Body design**

Straight body form and triangle thread enable excellent initial stability.

**Apex design**

Tapered Apex enables easy initial insertion.

**Surface**

Biocompatible RBM.

**Various diameters and lengths**

Platform	Ø3.5	Ø4.1	Ø5.1	Ø5
Diameter	Ø3.3	Ø3.75	Ø4	Ø5
Hex	2.4	2.7	3.4	2.7
Length	7, 8.5, 10, 11.5, 13, 15			8.5, 10, 11.5, 13, 15

(mm)

### FTN (External Tapered)

Submerged type implant with external hex connection.

**Root Form design**

Root form design enables excellent initial stability, Reduces possibility of touching adjacent teeth root during implant insertion.

**Self Tapping**

Advanced thread and apex design enable easy self tapping and excellent initial stability.

**Apex design**

Tapered Apex enables easy initial insertion.

**Surface**

Biocompatible RBM.

**Various diameters and lengths**

Platform	Ø3.5	Ø4.1	Ø5.1	Ø5
Diameter	Ø3.3	Ø4	Ø5	Ø5.5
Hex	2.4	2.7	3.4	2.7
Length	8.5, 10, 11.5, 13, 15			

(mm)

Kit – Series

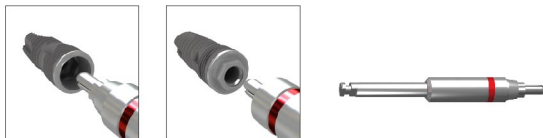
**Surgical Kit 3 Features**

High quality surgical kits are the results of DIO implant's continuous R&D toward simplicity and convenience for users.



**Drill Stopper**

DIO Drilling system guarantees correct drilling depth by using the rotating stopper which has improved from the past when dentists had to look at depth indication, DIO Stopper can also be easily attached and detached from a drill body for easier cleaning, and this rotating stopper system can minimize the bone loss more than non-rotating stopper.



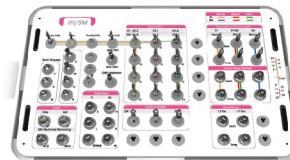
**No-mount system**

DIO IMPLANT SYSTEM has adopted "NO-Mount" system. This mountless system does not require disassembling inconvenient mounts during surgical operation. DIO's HEXAGRIP increases the convenience and decreases the time of surgical operation.

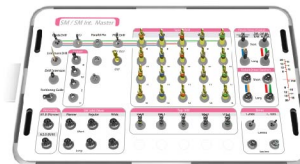


**Torx Coping Screw**

The existing Hexa Coping screws are easily distorted even at 35Ncm, but the Torx connection by DIO Implant can endure against high wear and will not be distorted easily even in repeated tightening and loosening processes.



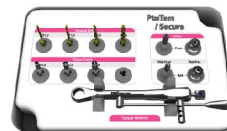
IFI/SM KIT



SM/SM-Int. Master KIT



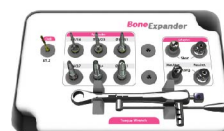
Prosthetic KIT  
Specialized prosthetic tools



Protem/Secure KIT  
Specialized surgical tools for Protem/Secure implant system



SM-Extra Wide KIT  
Specialized surgical tools for SM-Extra Wide implant system



Bone Expander KIT  
Surgical instruments to access implant osteotomy site without bone loss



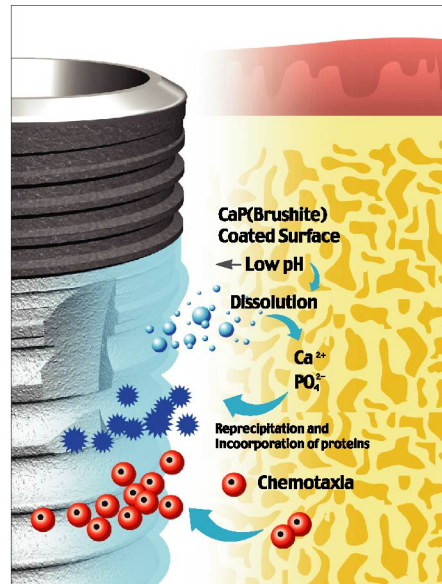
Dr.SOS KIT

Surface Treatment

RBM+Brushite(CaP)

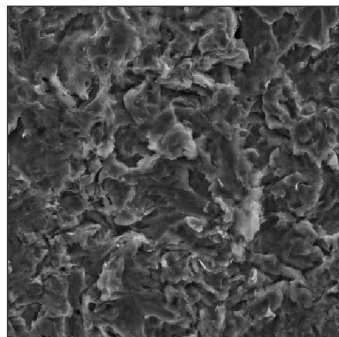
Dual Surface Treatment

RBM surface treatment is selected for the Implant surface with roughness of Ra 1,2 ~1,5 and results in faster and superb osseointegration. Brushite, resorbable bioactive Calcium Phosphate, is coated on the RBM treated surface. Brushite coating electrochemically deposits bioactive brushite(CaP) as a thin layer ( $15 \pm 5\mu$  m) into implant surface as a form of liquid including calcium and phosphate ion, resulting in shortened osseointegration period (6 to 12 weeks).

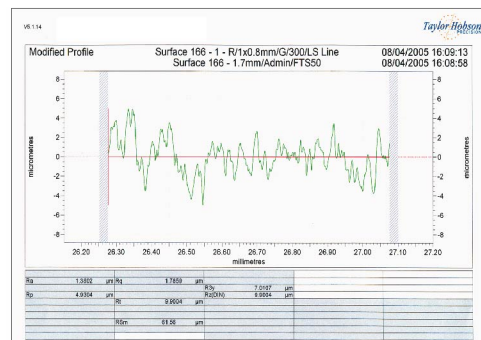


RBM(Resorbable Blast Media)

RBM (Resorbable Blast Media) surface treatment is a blasting process using absorbable particles that mainly consist of Hydroxyapatite (Beta-Tricalcium Phosphate, Alpha-Tcp, TTcp, Calcium Pyrophosphate(CPP)). It provides even roughness without leaving embedded debris and acid residue on the implant surface. Its successful clinical results were proven through a number of clinical cases. DIO Smile Implant System applies this RBM surface treatment to the implant surface that ensures even surface roughness of Ra 1,2 ~ 1,5 through an automated system.



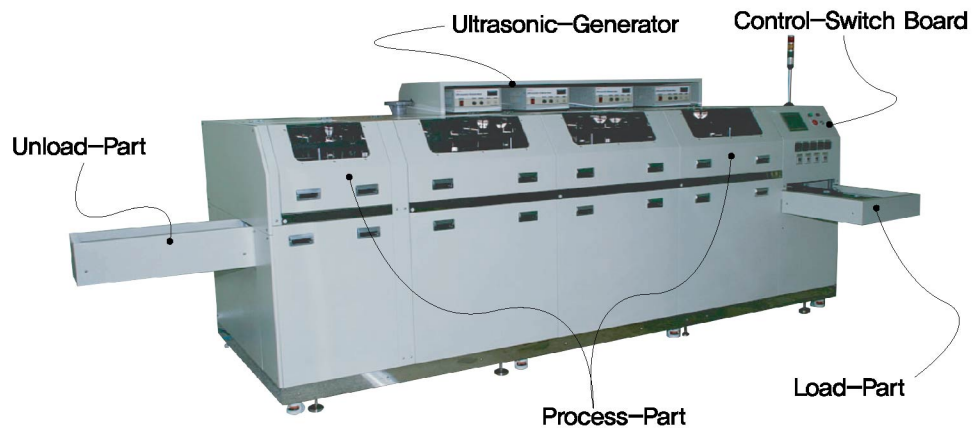
SEM



Roughness (Ra:1,2~1,5)

**Cleansing System**

Ultrasonic Vacuum Cleanser, the vacuum drier function coupled with the ultrasonic cleaning function provides residue free surfaces from your products as well as superior safety. Defective implant cleansers in the operating area can result in contamination and infection. DIO Implant is dedicated to maintaining the quality of its ultrasonic cleanser.



Company	Package Contents	Foreign Contents
DIO	3EA	C, O, Ti
"A"	3EA	C, O, S, Ca, Ti
"B"	3EA	C, O, S, Si, Fe, Mg, Cl, Ca, Zn, P, Ca, Al, Ti
"C"	3EA	C, O, S, Si, Ca, Zn, Na, K, Mo, Al, Ti

Analysis of foreign substances on fixture by company.



**Technical Information** The Implant fit for the body, is the pride of DIO Implant. We work hard to develop new products endlessly and to produce customer centric products through improvement.

## 1. Safety approval

Through various Biocompatibility tests, the body-match and safety have been approved.

### Pyrogen Test (DaeHan Medical Association)

As a result of placing Pyrogen Test on the Implant, the pyrogen substances are negative, proving that it is not harmful to the body.

### Sterility Test(USP 24(71))

With microorganism growth interception and activation test, and with Sterility Test, no bacterial development has been observed, proving that there is no harm to the human body.

### Acute Systemic Toxicity Test (ISO 10993-11)

As a result of the Acute Systemic Toxicity Test of Implant elution, no disorder or death has occurred during the observed period, proving that there is no harm to the body.

### Cytotoxicity Test (ISO 10993-5)

In cell's technical, numerical evaluation of Implant elution, the form, stoma, separation, or cell dissolution was not observed, proving that there is no harm to the body.

### Sensitization test (ISO 10993-10)

On the contact sensitization evaluation test, no erythema or oedema has been observed, proving there is no harm of allergy or sensitization reaction.

### Intracutaneous Reactivity Test (ISO 10993-10)

On the test evaluating the structure of the affected part, no erythema, crust or oedema was observed proving that there is no harm to the body.

### Implantation test (ISO 10993-6)

When implanted to an animal, on the structural evaluation, no inflammation or reaction was shown. Structure and osseointegration were also outstanding.

### Fatigue Test(ISO14801)

SI type: 920N  
SE type: 300N  
SM-S type: 810N  
SM-I type: 830N  
SM-E type: 440N

## 2. International Medical Device License

By achieving US FDA certification(K061797, K070568), Europe CE Certification (CE0123), and ISO 13485, DSI has internationally proven its outstanding products and quality.



**KFDA**

**FDA**



**Dental Product**

By distributing High-end dental product, we provide a perfect products system for implant surgery. To realize the best implant environment, we provide only the world's best products chosen with strict standards, and we don't stop at sales, but provide continuous customer management and perfect warranty.

**Implant Surgical Device**

Implant Mobility Measurement Device  
**Periotest M**



- Periotest applications
  - Fixture Stability Measurement
  - Abutment Stability Measurement
  - Periodontium Condition Measurement
  - Occlusal Load Measurement
  - \*Confirms the success/failure of prosthetic
- Features
  - Hassle free wireless mobility measurement.
  - No additional probes or adaptors needed.
  - One touch convenience.
  - Shows initial stability values after implant insertion.
  - Check the occlusal load of natural teeth as well as implants.
- Manufactured by | Medizintechnik Gulden (Germany)
- Korean Distribution | DIO Implant



Surgical Engine  
**X Cube**

- Features
  - Reduction geared contra angle with internal and external irrigation
  - Surgical BLDC motor first made in Korea with high technology and know how
  - Ergonomic foot control pedal
  - Compact designed control box with various functions
- Manufactured by | SAESHIN Precision
- Korean Distribution | DIO Implant

Surgical Engine  
**DIO-Anthogyr**



- Features
  - Convenient touch-screen operation.
  - Real-time RPM and torque values displayed during surgery.
  - Calibration module between contra-angle and contour.
  - 3 protocol (4 step) changing and saving function.
    - ex) Protocol 1: Hard Bone
    - Protocol 2: Soft Bone
    - Protocol 3: Medium Bone
  - Flow pump – 5 step adjustment, 0 ~ 60ml/min
  - All functions controlled by foot pedal during surgery.
- Manufactured by | Anthogyr (France)
- Korean Distribution | DIO Implant

Ultrasonic Piezo Surgery  
**Sonic Surgeon 300**



- Features
  - Stable high power
  - Various Tips including patented Crestal Approach Tip
  - Minimization of bone heating trouble by maximizing delivery of saline solution
  - Multi-Functional and ergonomically designed foot switch
  - Large sterilizing tray
  - Clean design by black&white tone
- Manufactured by | DIT (Korea)
- Korean Distribution | DIO Implant



## Handpiece

### Contra-angle Montblanc Contra-angle



- Features  
Excellent grip and power of up to 80 N.cm  
Head and gear can be disassembled from the body,  
easy component replacement, and excellent durability
- Manufactured by | Anthogyr (France)
- Korean Distribution | DIO Implant

### High Speed Handpiece Dura Optic



- Features  
High speed air turbine handpiece  
Excellent power and durability with economical price  
OEM manufacturing by a company with various  
world-premium brand handpiece manufacturing experiences,  
Ceramic bearing from Barden, UK  
Maximum 25,000LUX brightness

■ Korean Distribution | DIO Implant

### Dura H



- Features  
High speed air turbine handpiece  
Excellent power and durability with economical price  
OEM by a company with various world-class brand experiences,  
Ceramic bearing from Barden, UK

■ Korean Distribution | DIO Implant

## Sterilizers

### Handpiece Sterilizer Dentistar



- Features  
The only one of its kind in the world cleaning, oiling,  
and lubricating handpieces together with HTOS(High  
Temperature Oil Sterilization) method,  
Preventing rust and component damage, and removing residue,  
thus prolonging handpiece life  
Preventing cross contamination with perfect sterilization  
Safe sterilizing oil use approved by FDA and MLHW with  
no harm to human.

■ Manufactured by | Sejin Medical (Korea)

## Imaging System

### Portable X-ray ADX 4000



- Features
  - Registered in FDA, Japan, China, Taiwan, Australia, and Russia
  - X-ray, digital sensor, display (4 inch TFT-LCD), computer processor – All in one
  - System control using embedded Linux system
  - User interface for the user's convenience
  - X-ray emission time setting and control
  - Display setting of brightness, light and shade
  - Display data transferable to PC via USB cable
- Manufactured by | DEXCOWIN (Korea)

### Portable X-ray DX 3000



- Features
  - Small size and light weight
  - Detachable battery
  - Conventional X-ray radiation reduction to 1/7
  - High-frequency circuit of inverter type
  - Use with either digital sensor or film
  - Wired remote control (Optional)
- Manufactured by | DEXCOWIN (Korea)

## Bone Material

### Deminerlized Bone Matrix with Cancellous Bone Chip ExFuse™ II



- Features
  - Human bone with cancellous bone chip added to deminerlized bone
  - Strong adhesion and simple to use
  - Convenient injection type
  - Gel type and putty type
- Manufactured by | Hans Biomed (Korea)

### Deminerlized Bone Matrix SureFuse II™



- Features
  - Deminerlized human bone
  - Growth factor and protein preserved
  - Strong adhesion and simple to use
  - Convenient injection type
  - Gel type and putty type
- Manufactured by | Hans Biomed (Korea)

### Cortical Powder/Chip SureOss



- Features
  - Allograft material
  - Cortical bone and deminerlized bone
  - Freeze-dried process for longer shelf life
  - Power type and chip type
- Manufactured by | Hans Biomed (Korea)

## Impression Material

### DIOSIL Light body



- Features
  - No odor and taste, No allergic reaction
  - Convenient injection even after micro tip installation due to good floatability
  - Convenient to work with as thixotropic and not flowing from maxilla
  - Hydrophilic and excellent detailed reproduction in margin area and opposite teeth area.
  - Clear margin and impression side after impression taking due to excellent floatability
- Manufactured by | Neosil (Korea)

### DIOSIL Heavy body



- Features
  - No odor and taste, No allergic reaction
  - Soft mixing, easy injection causing no fatigue to users
  - No deformation and maintaining optimum hardness after solidification
  - Convenient to work with as thixotropic and not flowing into a tray
  - Compatible with other light body brands as well as DIOSIL light body
- Manufactured by | Neosil (Korea)

## Membrane

### Acellular Dermal Matrix SureDerm™



- Features
  - Human skin organ
  - Safe
  - Usable to all parts of human body
  - Durable and not susceptible to shrinking
- Manufactured by | Hans Biomed (Korea)

**Toothpaste**

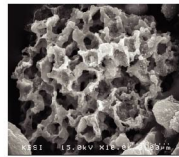
DIO toothpaste contains hydroxyapatite which constitutes 97% of teeth and 60% of bones, FDA approved, it is the best premium toothpaste with its excellent quality praised worldwide. DIO Paste Series contains Crystalline HAP which has a very high degree of purity among hydroxyapatite, therefore being very effective in preventing dental and periodontal trouble.

**DIO HAP Toothpaste / PREMIUM** | 3,57 Oz (100g) | 0,70 Oz (20g)



DIO toothpaste is the best premium toothpaste using expensive Crystalline HAP which has a very high degree of purity, not the chemically combined cheap HAP available in the market

- Treatment and prevention of sensitive teeth
- Whitening teeth and maintaining white teeth.
- Treatment and prevention of tooth decay



Hydroxyapatite

Major ingredient in human bones (HAP 60%) and tooth enamel layer (HAP 97%). It is a bioactive ingredient making teeth smooth and shiny by filling minute scars on tooth surface.

**DIO Nano-HAP Toothfoam** | 1,76 Oz (50g) | Retail: 10,56 Oz (300g)



Using Nano size HAP, it is a foam type toothpaste enabling easy tooth brushing with or without a toothbrush when outdoors.

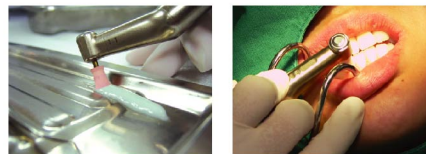
- Sensitive teeth soothing
- Use after implant surgery
- Use during orthodontics
- Use after teeth-whitening treatment



**DIO PRTC / Dentist** | 1,76 Oz (50g)



DIO PRTC (Professional Re-Enameling Tooth Cleaning) final stage paste is optimum for instant effect on the damaged tooth surface after dental treatment



- Hypersensitivity treatment
- Re-coloring prevention
- White spot elimination
- Roughened tooth surface recovery
- Remineralization

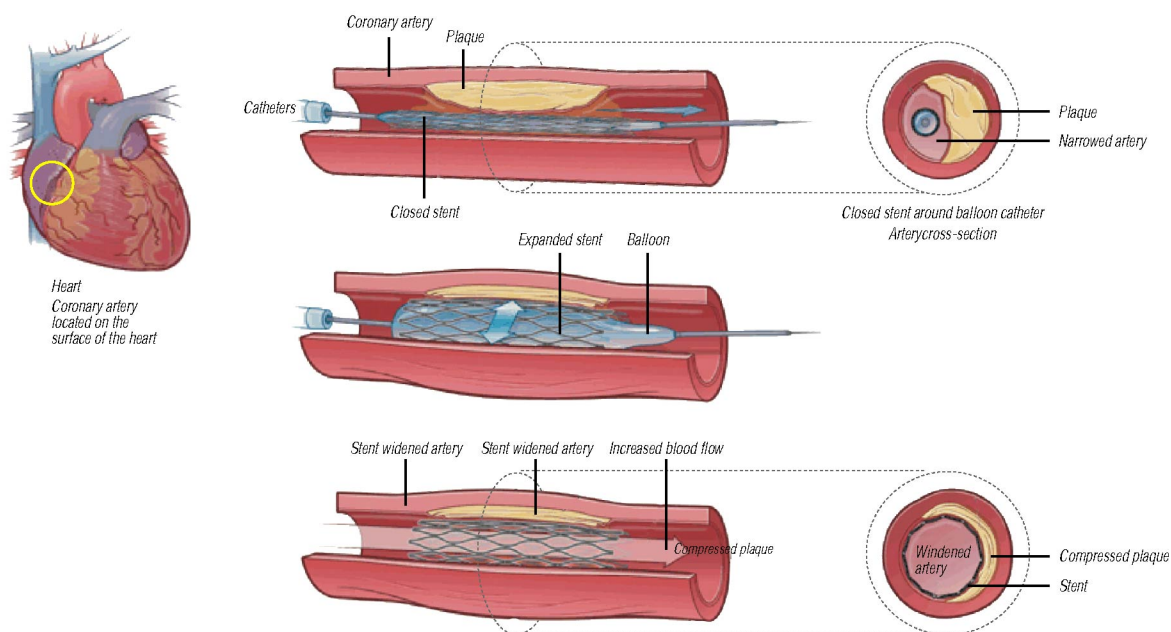
Wring out PRTC into a tray, smear it with a rubber cap, and treat teeth by rotating it into the entire tooth surface. After treatment, remove the paste with a 3 way syringe so that no paste would remain on the gum.



**Stent** Stent Devision is currently developing 3rd generation stent with "stent design patent" licensed on 27th February, 2008.

**Stent placement**

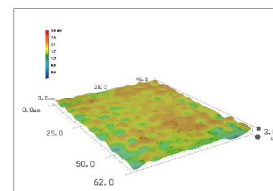
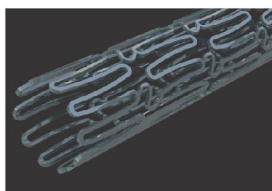
Stent is a small, lattice shaped metal tube that is inserted permanently into an artery. It helps hold open an artery so that blood can flow through it.



**Business Plan**

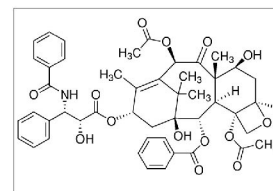
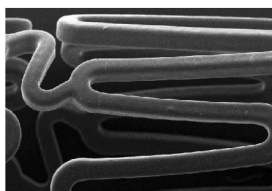
**NOVUS Bare Metal Stent (BMS)**

- Low stent surface roughness
- Ergonomic Hub Design
- Exceptional deliverability



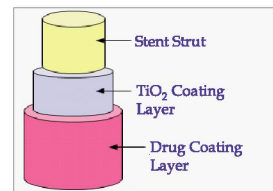
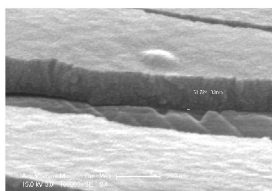
**NOVUS Drug Eluting Stent (DES)**

- BMS+Drug coating(Paclitaxel)
- Biodegradable PLGA POLYMER
- Effective drug and Polymer design



**Next Generation Stent**

- BMS+TiO2 coating(BMS-T)
- BMS+TiO2 coating+Drug(Des-T)
- The Superior biocompatibility



# Academic Associations

1. Academic & Research Association
2. DIO International Meeting
3. DIA (DIO Implant Academy)
4. DIO FORUM

Academic & Research Association



**Introduction of various clinical information through seminars**

Contribution to popularization of implant surgery by providing educational lectures on basic and advanced implantology with case-based curriculum

**Publishing clinical case reports**

Contribution to the development of clinical studies by publishing clinical case reports in various languages

**Supporting academic researches**

Members of DIA academic association participate in a number of studies in implantology to discuss and lecture the surgical practices and tips,

**Providing tips on how to use the implant surgery related equipment and material**

Collect and analyse the clinical data of implant surgery related equipment and material and providing tips on how to use them correctly,

**Seminars and symposiums in many countries**

Putting the efforts on expansion of implant surgery through the seminars in USA, Australia, and China, Informing the benefits of implant surgery through the seminars in Dubai, South America, Vietnam, and Thailand,

**Consultations with patients**

Most patients perceive implant surgery as expensive and scary surgery, therefore DIA association inform the benefits of implant surgery to patients through on and off lines,



**Dr. Young Hwan Cho**

UCLA Dental school Esthetic Center Visiting Scholar  
 USC International Continuing Education Division Clinical Professor  
 Fellow of the American College of Dentists  
 Japan Gnathology Society Board Member  
 Ph.D. & D.D.S at Seoul National Univ, Dental School



**Dr. Seung Il Um**

Graduated from Busan National University  
 Course completion at New York University in Implantology  
 Fellowship program completion at NYU in Implantology  
 Master degree from New York University  
 (School of Dental Material)  
 Private Practice at World Dental Clinic-Busan



**Sergio Alberto Vilchis Ortega (Mexico)**

Graduated from Unilec University in Pedodontics)  
 Graduated from Ula in Orthodontics)  
 Graduated from Loma Linda University in Implantology  
 Implantis Innovation Microlock  
 Founder of GIORE  
 Member of Academy of Osseointegration



**Dr. Sergio Peña Calvo (Chile)**

Dotor of Dental Surgery, Graduated of Chile University  
 Implantologist of Swiss Straumann  
 Implantology Lecturer of Straumann  
 Prosthodontist of Germany Ivoclar Vivadent  
 Completed Harvard university implant course  
 Completed Swiss Berna university implant course  
 Completed prosthetic course of Germany Ivoclar Vivadent



**Dr. Petr Blecha (Czech Republic)**

Privat office, periodontology, implantology  
 Prosthodontics department of Charles University in Pilsen  
 Member of Czech implantology society  
 Member of Czech periodontology society





**Dr. Arkadiusz Krezlik (Poland)**

Graduate of Medical University of Lodz, Poland  
 Co-founder of Polish Society of Implantology (PSI)  
 Member of DGZ, DGOI and ICOI  
 ICOI Lecturer  
 Lecturer of practical implant courses in Poland, Ukraine and Cuba  
 implant praxis since 1997



**Dr. Elzbieta Krezlik (Poland)**

Graduate of Medical University of Lodz, Poland  
 Past-president and co-founder of Polish Society of Implantology (PSI)  
 Member of DGZ, DGOI and ICOI  
 ICOI Lecturer  
 Lecturer of practical implant courses in Poland, Ukraine and Cuba  
 implant praxis since 1997



**Consultant Dr. ORHUN BENGISU (TURKEY)**

EGE UNIVERSITY DENTISTRY FACULTY 1981  
 Doctorate: Obtaining connective tissue attachment experimentally  
 by guided tissue regeneration  
 Graduation thesis: an epidemiological survey on periodontal diseases  
 and carries 1981  
 Studies on oral implantology and biomaterial products



**Dr. Anoup Nandra (UK)**

Implantologist at Edgbaston Dental Centre  
 Implantologist – James Hull Group  
 Clinical Lecturer at the University of Birmingham  
 Vocational Dental Trainer  
 Mentor for the Association of Dental Implantology  
 Membership of the Faculty of General Dental Practitioners (RCS UK)  
 Pending Diploma in Restorative Dentistry (RCS UK)  
 Certificate in Implantology and Surgical Prosthodontics (UCL)  
 Pending Diploma in Implant Dentistry (UCL)  
 Dentist to Worcestershire County Cricket Club



**Dr. Kecskes Ivan (Hungary)**

Lecturer of University of Medicine Department of Dentistry Pecs  
 Member of Hungarian Association of Implant Dentistry  
 Member of Hungarian Academy of Science



**Dr. HUYNH DAI HAI (Vietnam)**

Director of Odonto Maxillo Facial Hospital Ho Chi Minh City  
 Post graduated course of Dentistry at Pharmacy and Medicine  
 University, Ho Chi Minh City  
 Graduated in Dentistry at Pharmacy and Medicine University,  
 Ho Chi Minh City



**Mahmood Qureshi (Pakistan)**

President, Pakistan Academy of Implant Dentistry (PAID)  
 Director, the Clinical Research & Development Institute  
 Director, Implant & Reconstructive Dentistry Continuing  
 Education 'ARTIS' implant system  
 (The International Institute of Replacement Therapy)  
 Monimorency College of Dentistry, Lahore/Pakistan  
 Postgraduate training in Oral Implantology  
 from U.K, U.S.A. & Switzerland



**Dr Francois VEUVE  
 (France – Suisse  
 / Doctor of Dental Surgery, DDS (Nancy, France))**

Academic Diploma of Implantology (Nice Sophia Antipolis, France)  
 Academic Diploma of Occlusontology (Nice Sophia Antipolis, France)  
 Postgraduate in periodontics and implantology (New York University)  
 Graduated from the Canadian Institute of Implantology, Quebec (ADA C,E,R,P)  
 Fellow of the International Congress of Oral Implantologists (I.C.O.I)  
 Member of the European Association for Osseointegration (E.A.O)  
 Member of the French Association of Implantology (A.F.I)

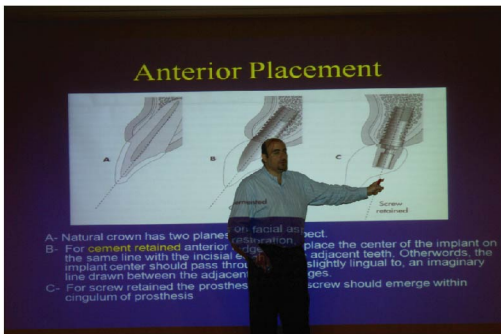


**Dr. Adel Ramadan (Egypt)**

Diplomat in oral implantology Ein shams university – Cairo  
 Diplomat in fixed prosthodontics Alexandria university  
 Lecturer in the Egyptian society of oral implantology.

**DIO International Meeting** Sharing the most recent advancement in dentistry and implantology.

DIO International Meeting is the annual meeting held by DIO IMPLANT. More than 200 DIO users from all over the world are participating in DIO International Meeting every time, you can see how much they are passionate and active, DIO International Meeting has been based on the professional partnership for worldwide implantology. It has seminars, lectures and discussions with various topics & cases which are hosted by renowned speakers from both Korea and all over the world. We could expect that DIO International Meeting will be the most renowned worldwide meeting with high-level lectures and systematic training course, Implantologist could catch the latest studies and researches through DIO International Meeting.



**DIA(DIO Implant Academy) Clinical Education of Specialized and systematic Implant**

Specialized and Systematic Implant Clinical Education.  
 DIO Implant runs the specialized and systemic seminar education program with prominent speakers and improved education program to everyone from beginners of Implant to familiar ones, and supports implant specialist training and dental implant studies.

**Seminar (DIO Institute Academy)**

Basic course	Advanced course	Master course
Diagnosis and treatment planning Surgical kit analysis Implant placement Soft tissue managements G,B,R	Sinus graft Bone graft Ridge split Flapless surgery Overdenture	Dental Clinic Managemnt Staff Management G,B,R Live surgery Hands-on Implant Placement

In the Basic course, we give confidence to the directors who want to have systematic Implant education with various practices and prosthesis placing.

For the directors with experience of Implant, we not only give speeches on various method on surgery or prosthesis, but also give opportunities to solve difficult cases through practice.

Each seminar has its own titles and special sessions about dental management, dental staff, G,B,R, Live surgery, and Hands-on Implant Placement.

- **Overseas Course, and Domestic seminars for the overseas Dentists**
  - Building dentist infrastructure through training institute and thus, make new customers.
  - Direct-indirect advertisement through training institute resulting in easy marketing access for overseas markets.
  - Beginning with Korean dentists in east and west coast, expand to the entire USA and the rest of the world.
- **Advance Course perfect in practice and real surgery**
  - Focused practice course completing 1~2 Topics each day
  - Systematic education on new equipment helpful for successful treatment
  - Saving time and costs
- **Systematic and scientific approach (clinical cases and easy explanation)**
  - Showing strong points for many kinds of implants, building scientific data base, explaining implant structure, and making surgical & prosthetic protocol into Power point and pamphlets.
  - Making Protocols on detailed surgery method and usage of each tool on each case.
  - Protocol on correct usage of surgery equipment and tools.
  - As a result, producing Text books (Korean and English)
- **Live Surgery on actual patient**
  - Training director places implants on the actual patient
  - Course Director and Faculty's teaching and Supervising
  - Two Live Surgery broadcasts
  - Technical Support from surgery to placing prosthesis.
- **Systematic and Tested Program**
  - Based on practice, consists of clinically applicable topics.
  - Upgraded Curriculums tested during past 5 years in real practice.
  - Master of current top implant systems, (Astra, ITI, Brenemark)
- **Basic over basic**
  - Treatment area expanded by G,B,R addition.
  - CT analysis method and 3D RP model usage (Less traumatic surgery like flapless surgery possible)
  - The clinic management Topics (tax, accouting, money investment) for successful opening and management of the dental clinic.
- **Implant education for dental staff**
  - Separate staff education on implant during the training period to facilitate co-work between doctors and staff during surgery.



## DIO Forum

dioforum.com gives you the opportunity to participate in interactive discussions with leading clinicians worldwide regarding all aspects of dental implants. It's also your online guide to the latest products, courses, news, and research, in the world of implant dentistry.

### What is dioforum.com?

It's a online site to share clinical data and opinion. We, DIO, launched the web-site to share and introduce any clinical data, thesis, information and opinion mainly with DIO user last August in 2009.

### How to join a member of DIO Forum?

Any DIO User or partner can join as a DIO Forum member on the DIO Forum web-site.

### The activity target of DIO Forum

- 1) To discuss clinical information on the DIO Forum site.
- 2) To introduce related DIO Event and seminar over the world.
- 3) To introduce DIO Product and Q & A
- 4) To show the lecture movie file in the DIO Forum
- 5) To promote freindship

### DIO FORUM Benefit

High-quality service for various dental clinical case.  
Clinical information, Useful tips, and Open discussion for clinical case.  
Exchange your knowledge with live surgery movie

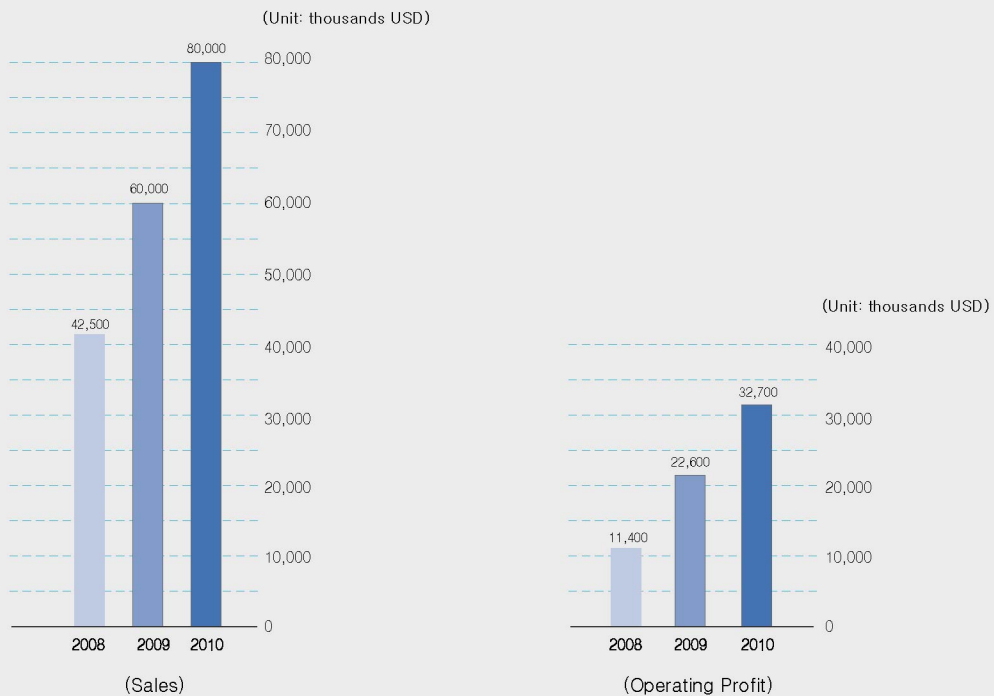
# Corporate

1. Outline and Accomplishment
2. Research & Development
3. Business at a Glance
4. Business Network

## Corporate Profiles

Corporate name	DIO
Establishment	January 23 1983
Chairman of the board	Kim Jin Cheol
President & CEO	Dr. Cho Young Hwan
Headquarters(Factory)	1464, U-dong Haeundae-gu Busan, 612-020, Korea
Seoul office	Room 1004, Ssangnim B/D. 151-11 Ssangnim-dong, Jung-gu, Seoul, 100-400, Korea
Sales	42.5 million dollars (Fiscal year 2008)
Number of employees	370 employees 170 employees in Headquarters 200 salesmen
Affiliated Coporates	Kilmin Construction: 503-7 Jangjeon-dong, Keumjung-gu, Busan City, Korea Dongseo Hightech : 1212-2 Joil-li, Samdong-myun, Ulju-goon, Ulsan City, Korea

## Financial Performance Forecast(Consolidated)



**Research & Development** DIO Implant is actively increasing R&D investment and is developing world class technology,

**DIO R&D center**

R&D on dental implants and instruments  
 Unilateral development of SM(SMILE MASTER) implant series  
 Protem Implant system is newly developed (Protem is usually used for narrow osteotomy site and temporary prosthesis sustain (Diameter 2.0/2.5/3.0mm)  
 BioTite-H : The coating that electrochemically deposits bioactive brushite(CaP) as a thin layer ( $15 \pm 5 \mu\text{m}$ ) into implant surface in liquid including calcium and phosphate ion, resulting in shortened osseointegration period (6 to 12 weeks).

**BIO R&D center**

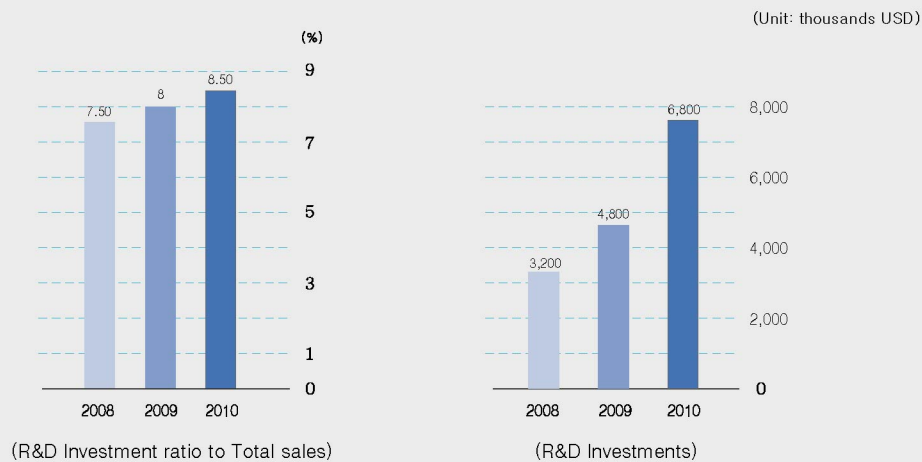
R&D on HAp, DIO toothpaste, and HAp bone marrow cloning  
 DIO toothpaste includes more than 98% purity HAp (hydroxyapatite) that is extracted from natural material and has FDA as well as KFDA approval as a drug, not a cosmetic.  
 Foam toothpaste using NANO-HAp, an ultra-minute particle, enjoys a good reputation both in domestic and overseas markets.

**Yonsei University Stent R&D center**

Heart related surgical and stent research & development.  
 Yonsei University Stent R&D Center was founded to develop the next generation of stents, coating equipment, and drug coating equipment. In doing so, promote domestic prominence

**Government Support Project**

Bio Active Implant  
 The surface treatment that bioactive material(Mg) is injected into implant surface without a coated layer, thus expediting and maximizing osseointegration.  
 It is now under animal experiments.



**Business at a Glance**

DIO Corporation holds a long history over 20 years and with its technology, it is becoming the top ranked company.

With the high quality production technology and endless R&D, it has been approved by the international certification authorities, and will go global as a company always thinking on the customers' side.

**2009**

- 10 Helded 2009 International Meeting
- CHINA SFDA lertified
- AO Exhibition participate
- IDS Exhibition participate
- 06 SINO DENTAL participate

**2008**

- 08 Renamed DIO Corporation
- Headquarters moved to Haeundae Centum area of Busan
- 05 USA FDA certified(BioTite-H Implant)
- 04 USA FDA certified(SM Extra Wide Implant)
- 02 Achieved patent on stent(Cardiouascular coronary Stent)

**2007**

- 04 Established Peking DSI Technology Limited Corporation
- 02 KGMP certified

**2006**

- 09 Established DIO Thailand Co., Ltd
- 11 Entered agreement with German Biosteel Medical company for joint medical equipment development (Stent)
- 12 Selected into the Ministry of Commerce, Industry and Energy project for popularized implant development
- 05 Established DIO Australian Limited Company
- 03 USA FDA certified

**2005**

- 08 Established Vietnam branch office
- 06 Europe CE certified
- 04 ISO 13485 certified

**Remarkable**

**2001~2003**

- 03 KFDA certified
- International Forum Design Award in Hanover Germany
- Awarded the order of merit by the President of Korea for the development of superior capital goods.
- 02 Nominated as a producer of world-class products (Ministry of Commerce, Industry & Energy: MOCIE)

**1990~2000**

- 00 Name change from Dongseo Machinery Co., Ltd to D S I Co., Ltd
- Established China Shanghai branch
- Registered in KOSDAQ stock exchange market
- Awarded the grand prize for Korean packing M/C (Association of Korean Packing Machinery)
- Received 5 million dollar export trophy and Honorable Medal from the Prime Minister
- 99 Attained \$5million on Export
- 98 Obtained EM mark
- 97 ISO 9001 certified
- 95 Obtained Europe CE mark
- Obtained German GS mark

**1988 ~1990**

- 90 Designated as Prospective Small to Medium Company (Industrial Bank of Korea)
- 89 Began exports of automatic packing machines
- 88 Established Dongseo Machinery Co.,Ltd.



## Global Network

- Sales office : 14 major cities (200 persons)

### Seoul

Room 1004, Ssangnim B/D, 151-11 Ssangnim-dong, Jung-gu, Seoul, 100-400, Korea  
T.+82-2-2268-2850

### W.Seoul

72-2 Yangpyeong-dong 5-ga Yeongdeungpo-gu, Seoul, Korea  
T.+82-2-2068-7332

### Incheon

5F 21C B/D, 1034 Jung 4-dong, Wonmi-gu, Bucheon-si, Gyeonggi-do, Korea  
T.+82-32-547-2878

### Busan

1464, U-dong Haeundae-gu Busan, 612-020, Korea  
T.+82-51-745-7810

### Busan(Dental Product)

1464, U-dong Haeundae-gu Busan, 612-020, Korea  
T.+82-51-745-7803

### Gyeonggi-do

Room 401 New Sung-Kyung Plaza 146-1 Bundang-gu, Sungnam-si, Gyeonggi-do, Korea  
T.+82-31-702-2850

### Gyeongsangnam-do

4F Daeheung B/D 86-7, Jungang-dong, Changwon-si, Gyeongsangnam-do, Korea  
T.+82-55-262-3401

### Daegu/Gyeongsangbuk-do

3F Taejeon-dong Buk-gu, Daegu, Korea  
T.+82-53-321-2806

### Daejeon/Chungcheongbuk-do

1187 Gagyeong-dong, Heungdeok-gu Cheongju-si, Changcheongbuk-do, Korea  
T.+82-42-255-2804

### Ulsan

1F 4-63, Sinjeong 5-dong, Nam-gu, Ulsan, Korea  
T.+82-52-256-2177

### Pohang

34-70, Haedo-dong, Nam-gu, Pohang-si, Gyeongsangbuk-do, Korea  
T.+82-54-278-5932

### Gwangju/Jeollanam-do

3F Setercore B/D, Munheung-dong, Buk-gu, Gwangju, Korea  
T.+82-62-952-3994

### Gangwon-do

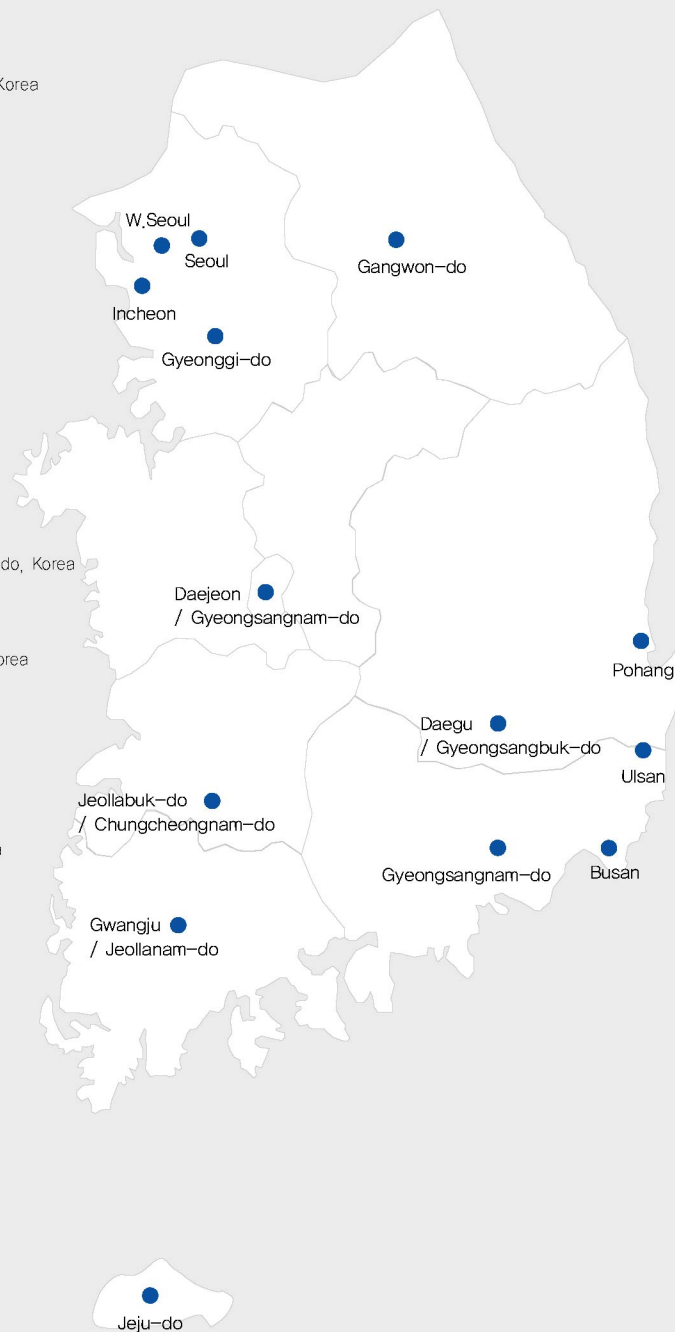
Room 101 1F 1560-2, Dangu-dong Wonju-si, Gangwon-do, Korea  
T.+82-33-765-2809

### Jeollabuk-do/Chungcheongnam-do

746-50 U-A-dong 3ga, Deokjin-gu, Jeonju-si, Jeollabuk-do, Korea  
T.+82-63-244-9654

### Jeju-do

1068-8, Gunlee-dong, Jeju-do, Korea  
T.+82-64-752-5604



## Global Business Network

Exports over 50 countries

Wider, Faster, and Higher, DIO, is aiming for and accomplishing its goal to step up into the wider world. In times of rapid urbanization and as the continental differences are overcome, DIO increases its phase and to have a chance to achieve its vision, DIO will become Global Leader with product quality and service.


 Branch
  Distributor



DIO Thailand



#5k Rimco bldg. 139 Soi Sukhumvit 63,  
Klongtan Nua, Wattana,  
Bangkok 10110, Thailand  
Tel. +66 2 714 7875  
Fax. +66 2 714 7744

DIO Vietnam



Tecasin Room 112, 243-243B  
Hoang Van Thu St., Tan Binh District,  
Ho Chi Minh City, SR Vietnam  
Tel. +84 8 3997 4878  
Fax. +84 8 997 4895

DIO China  
Beijing



No. 2408, 211 Building, Wangjing Huayuan,  
Chaoyang District, Beijing, China  
Tel. +86 10 8188 0183  
Fax. +86 10 6475 6820

Shanghai



RM 302 No.1339 Wuzhong Rd, Minhang  
District, ShangHai China  
TEL. +86 21 3431 9504  
FAX. +86 21 3431 9604



DIO Australia



Suite 94, 809-811, Pacific Highway Chatswood, NSW 2067 Sydney, Australia  
Tel. +61 2 9413 9588  
Fax. +61 2 9419 6588

DIO Mexico



Obrero Mundial N.919 Col. Alamos Col. Portales C.P. 03400, Mexico D.F. Mexico  
Tel. +52 55 5530 0575  
Fax. +52 55 5539 2729

DIO U.S.A.



3540 Wilshire Blvd #1104, Los Angeles, CA 90010, USA  
Tel. +1 213 365 2875  
Fax. +1 213 365 1595



#### Headquarters(Factory)

1464, U-dong Haeundae-gu Busan, 612-020, Korea  
Tel. +82-51-745-7777 Fax. +82-51-745-7778

#### Seoul office

Room 803, Ssangnim B/D. 151-11 Ssangnim-dong,  
Jung-gu, Seoul, 100-400, Korea  
Tel.+82-2-2268-2850



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

#### Overseas Branches

DIO U.S.A (Los Angeles)  
Tel. +1 213 365 2875

DIO China (Beijing / Shanghai)  
Tel. +86 10 8188 0183 / +86 21 3431 9504

DIO Australia (Sydney)  
Tel. +61 2 9413 9588

DIO Mexico (Mexico City)  
Tel. +52 1 55 1843 0690

DIO Thailand (Bangkok)  
Tel. +66 2 714 7875

DIO Vietnam (Ho Chi Minh)  
Tel. +84 8 3997 4878

#### Global Distribution

##### America

U.S.A  
Brazil, Mexico, Venezuela, Colombia, Aruba, Curacao  
Trinidad & Tobago

##### Europe

UK, Germany, France, Russia, Italy, Belgium, Netherland  
Greece, Poland, Hungary, Bulgaria, Cyprus  
Albania, Turkey, Spain, Portugal  
Ukraine, Luxemburg  
Lithuania, Kazakhstan, Tajikistan

##### Asia, Middle East, Oceania

Australia, Newzealand, China, Malaysia, Singapore  
Indonesia, Taiwan, Philippines, India, Pakistan, Iran  
Saudi arabia, Egypt, UAE, Thailand, Vietnam, Syria