

Ver 2.0  
(IN)

# DIO IMPLANT SYSTEM

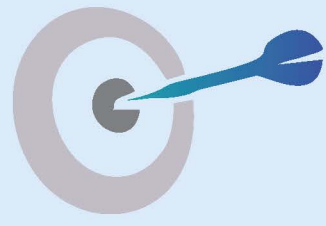
Product Catalog

**D:O** IMPLANT



# Human Happiness, Healthy Living, Ultimate Value of DIO

With corporate social responsibility, the core of who we are and what we do, DIO's ultimate goal is to pursue and envision a world where everybody enjoys happiness and healthy living.



## Mission

**The oral care solution creator**  
Providing convenient and innovative oral health solutions for a happy smile!!



## Vision

**2030 global top 5 implant company**  
300 KRW billion in 2027  
500 KRW billion in 2030



## Slogan

**"A Complete transformation"**  
**"Turning over a new leaf"**

A true year of departure for All New DIO, whose management goals have been achieved!!

New Face | New Eyes | New DIO



# D:O

## The center of high technology, a company that makes a better world

'DIO technology puts humanity first Our sustainable innovation will make everyone's life happier.

DIO, leading with innovative technology.

### Innovation

DIO will upgrade core technologies and secure the cornerstone of new growth drivers based on continuous investment in R&D.

DIO, at the frontier of digital dentistry

### Leader

We focus on continuous R&D, to be the most advanced dental company in the world with the best technology in the world.

DIO, building trust with customers.

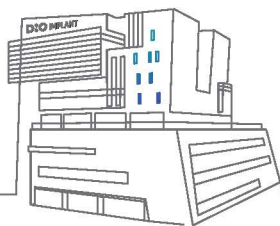
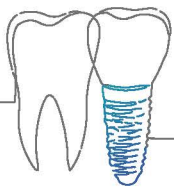
### Trust

We take commitment to customers seriously to nurture trust from our customers. We try to build an ecosystem in which we can evolve through cooperation with our customers.

DIO, moving on to a better tomorrow.

### First Mover

We will be the first to adopt innovative technologies that can take us to the next level.



#### 1988-2005

##### Establishment:

- Awarded The Export Master's Commendation
- Obtained 'ISO 9001 Certification
- 'EM' Certification for The Superior Quality of Technology
- Launched Dental Implant Business

#### 2006-2010

##### Expansion:

- Awarded the Export Master's Commendation
- Established DIO Australia
- Established Beijing D.S.I Science & Trade Co. Ltd
- Launched Narrow Implant System
- Launched UV Active Surface Treatment

#### 2011-2017

##### Digitization:

- Launched UV Active Surface Treatment
- Launched UF Implant System
- Launched DIO Digital Academy
- Established Overseas Subsidiaries in India
- Launched UV Activator
- Launched '3D Printer DIO PROBO Z'
- Launched DIONavi. Full Arch, Digital Implant System

#### 2018-2025

##### Achievement:

- Launched NYU DIO Digital Academy
- Launched DIONavi, Full Arch, Digital Implant System for edentulous patients
- Launched UV Activator2 Won 2020 if Design Award, One of Top 3 World Design Competitions
- Surpassed 10 million DIO NAVI implant placements
- Awarded Export Tower for 50 million USD in exports
- Opened DIO-Mall online shopping mall

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# DIO Implant Overview

## Open Thread

Minimizes the resistance of fixtures and insertion depth is adjustable without additional drilling.

## Platform Switching

Minimizes the bone loss by switching structure of platform and increases the long-term stability.

## Upper Thread

### Taper Thread, Initial Fixation

Taper thread is applied to the straight body allowing effective stress-distribution on the implant top. Screw thread is smaller on the top area of screw, enabling sufficient flow of blood in the cortical bone area and promoting faster new bone formation by reducing empty holes.

**A + B**

### Dual Morse Tapered Contact Connection (11° Morse)

The interface between the fixture and abutment increases in hermeticity. Bone loss can be minimized by evenly distributing the load put onto the fixture.

## Straight Body

### Decrement of Bone Damage

The implant length changes according to the body length. Long implants can be placed with high stability removing any sudden changes, just like the straight type.

## Apical Design

### 15° Taper Guide Gradually

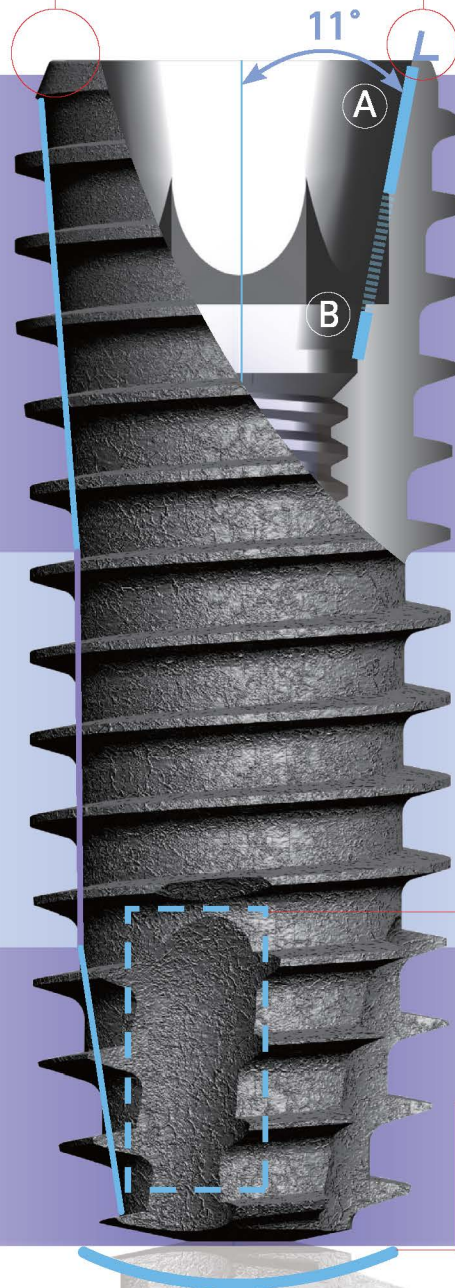
15" taper makes the initial placement easier even for small drilling in weak bone.

## Cutting Edge

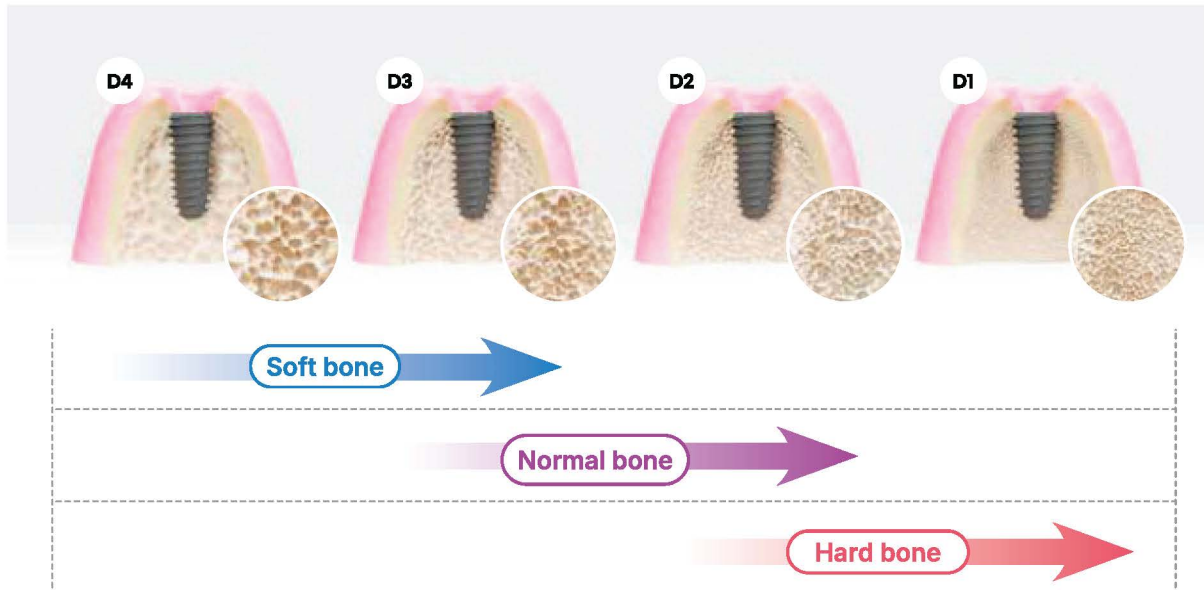
The sharp edge can maximize the efficiency of self-tapping.

## Apex

The round shape minimizes tissue damage caused by implants for sinus surgeries.



# DIO Implant can be placed **into all bones**



For successful implantation, healthy gums are more important than your age.

The decrease in gum bones due to aging is natural.

Using artificial bone grafting, implant surgery is possible even if the gums are insufficient or weak.

If you suffer from systemic diseases such as high blood pressure, diabetes, osteoporosis, or are on medication, sufficient **consultation is required before surgery.**

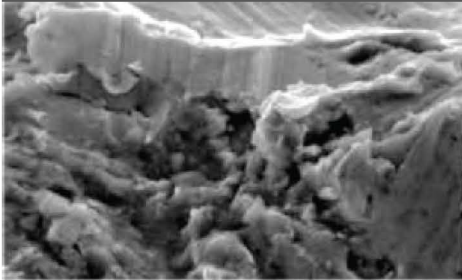
**DIO Implant has the World's best**  
Implant design and surface treatment technology.

# Unique hybrid surface treatment

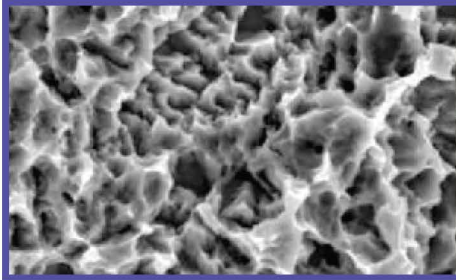
The DIO UFII implant makes bone integration faster and easier, speeding up the entire treatment period so you can go back to your daily life

## Difference in implant surface treatment technology

Surface of a generic implant surface



Surface of a DIO Hybrid SLA (HSA) Implant

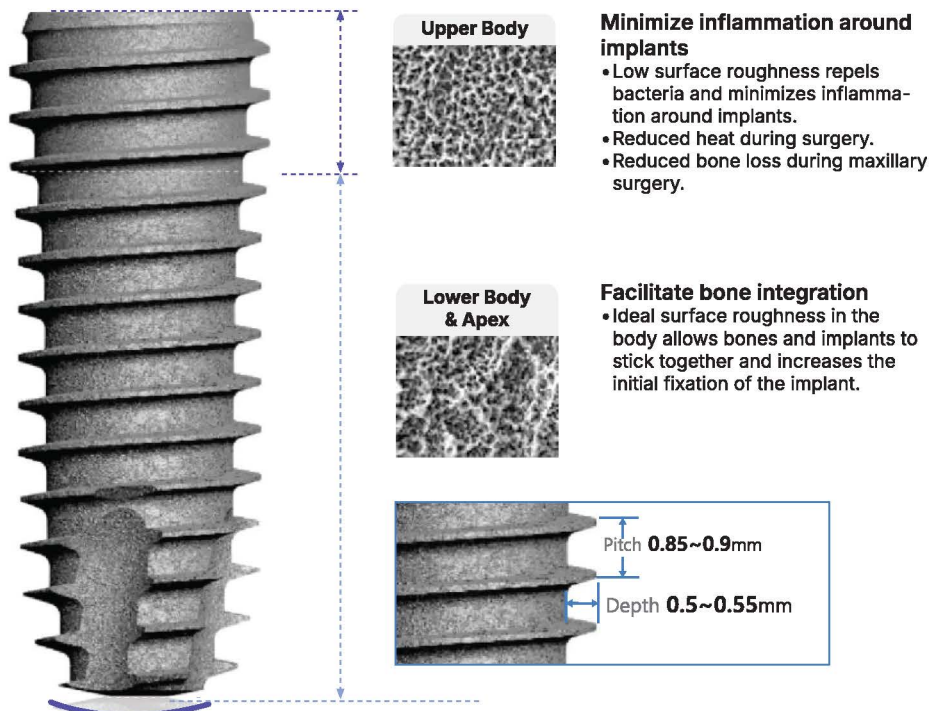


- I. Excellent initial fixation,
- II. Minimize bone absorption around the implant.
- III. Improve affinity with surrounding soft tissue.
- V. Minimal inflammatory response to surrounding bones.

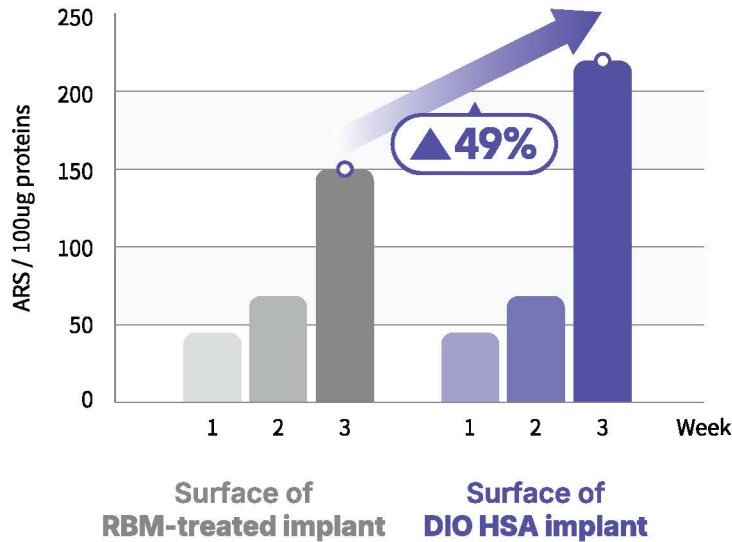
## DIO implants are manufactured in a **hybrid SLA (HSA)** method that implements a rough surface

The surface treatment technology of DIO implants increases the contact area between bones and implants, integrating bones and implants securely.

## Hybrid surface treatment leads to a stronger integration of bones and implants.

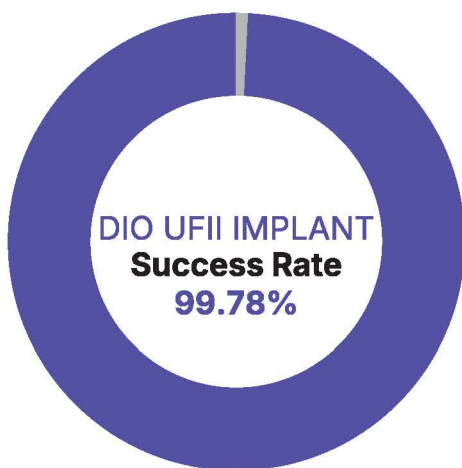


# Surface Technology at DIO Implant Hybrid SLA (HSA)



**Bone formation speed increased up to 49%**

Three weeks after implantation, DIO's surface treatment (HSA) shows that **bone formation rate is 49% activated** compared to general implant surface treatment (RBM)



Out of 2,644 implants,  
**2,638 were successful**  
and **6 failed**

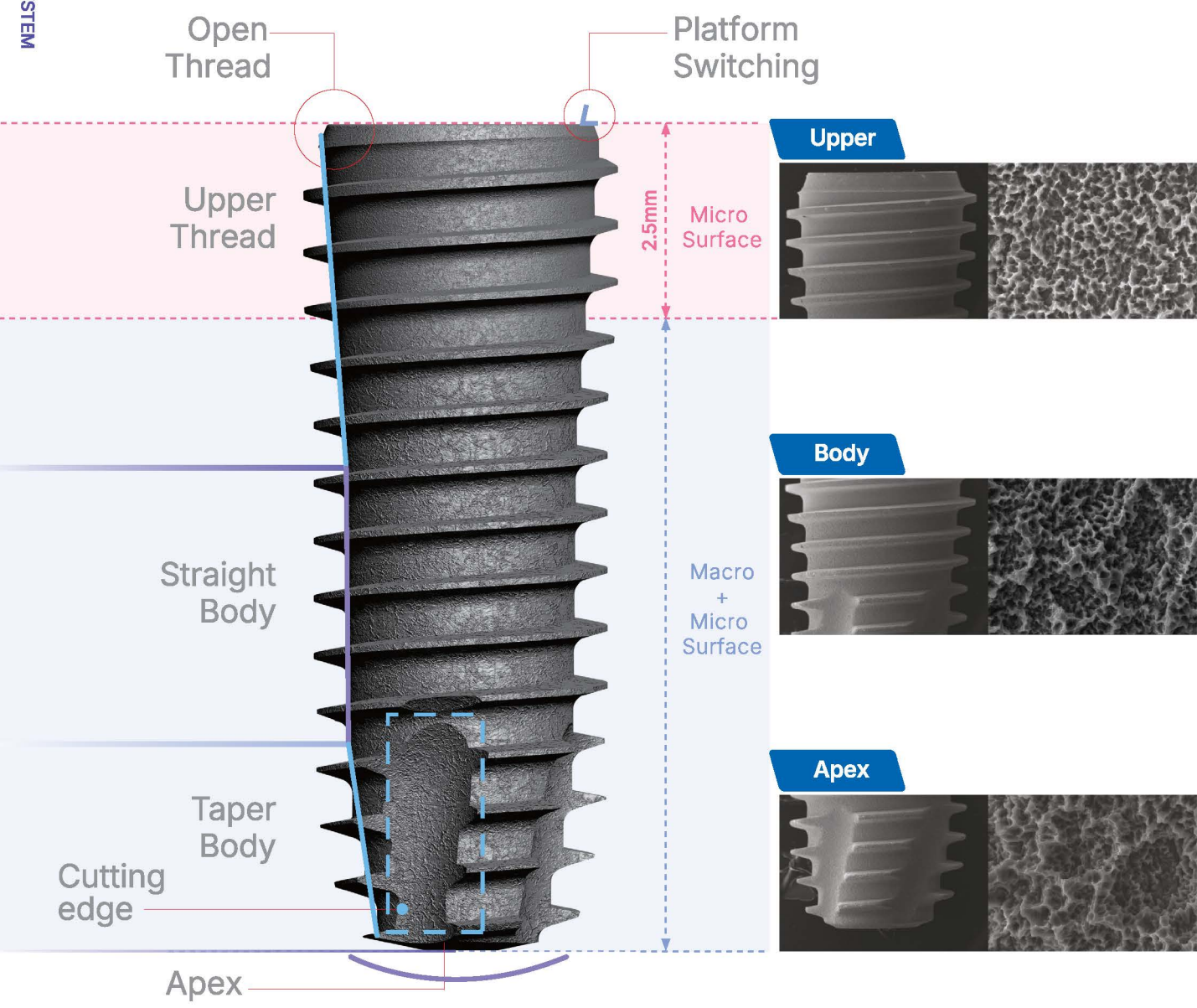
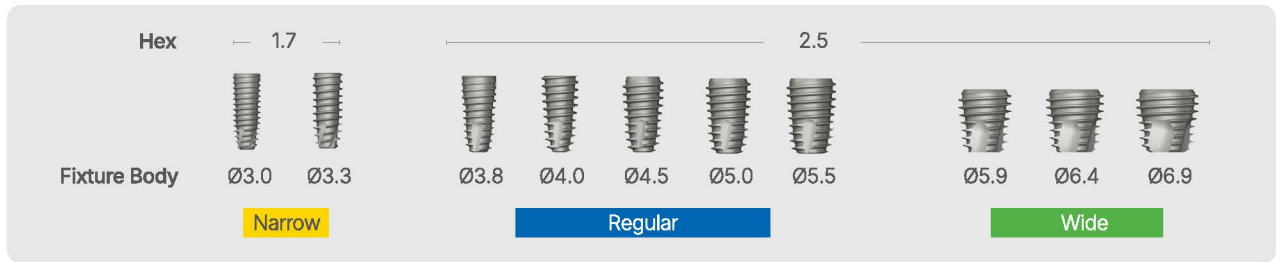
Source | 'S' dental clinic (South Korea Clinic)  
Implant Brand | DIO UFII Implant

Successful integration of gums and implants achieves  
**99.78% success rate** of implant surgery.

# UFII Int. Submerged System

Hybrid Type SLA Implant

## UFII Implant



IMPLANT SYSTEM  
UFII INT. SUBMERGED SYSTEM

\* This product is a 'medical device' and read and use 'cautions for use' and 'how to use it'.  
Review number 2019ET1120105



Video:  
Introduction to UFIII

# UFIII Int. Submerged System

Stable Initial Fixation for Soft Bone

## 01 Design specialized for soft bone

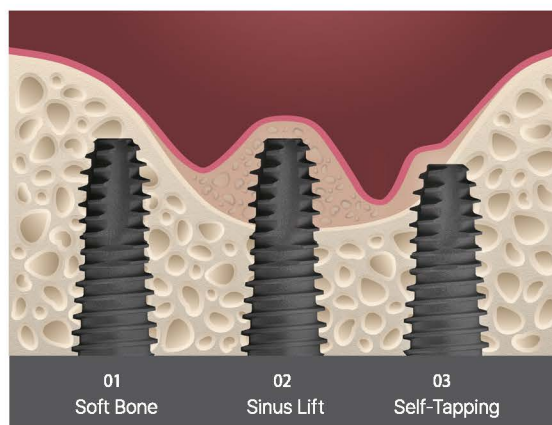
- The Tapered Body Design, which combines the optimal slope and thread pitch, achieves excellent initial fixation force.
- The cutting edge is long and sharp, enhancing self-tapping function and providing optimal implantation sensation.

## 02 Shortened drill protocol

- The protocol is reduced to 1-4 steps depending on the diameter during surgery on soft bone.
- Self-tapping can be easily achieved even with under drilling.

## 03 All indications can be resolved

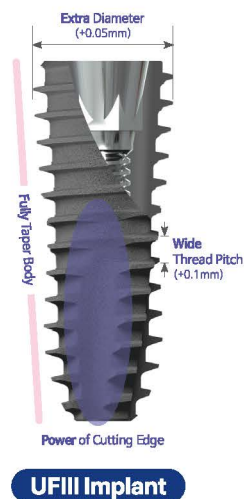
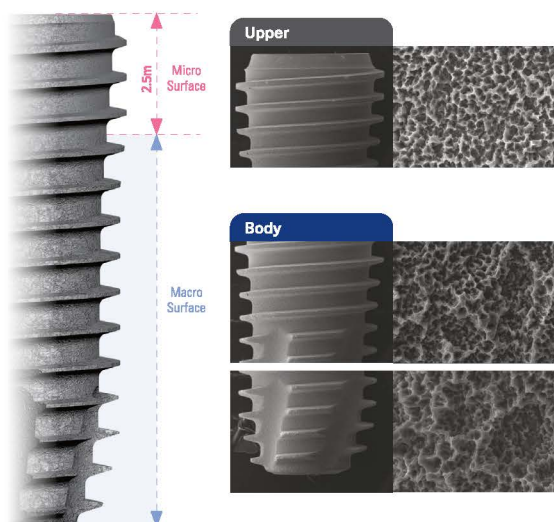
- UFIII Implants can be used together with UFII to effectively address all indications.



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UFIII INT. SUBMERGED SYSTEM

## Hybrid SLA (HSA) Surface Treatment Method

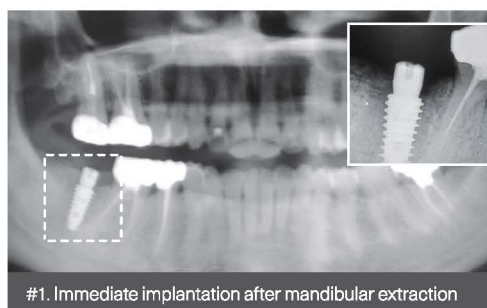


a tapered implant for stable initial fixation in weak bone

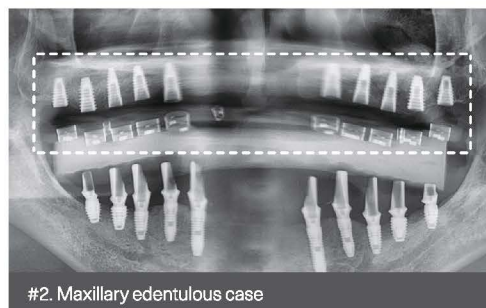


a simple and powerful all-weather implant

## Clinical Case



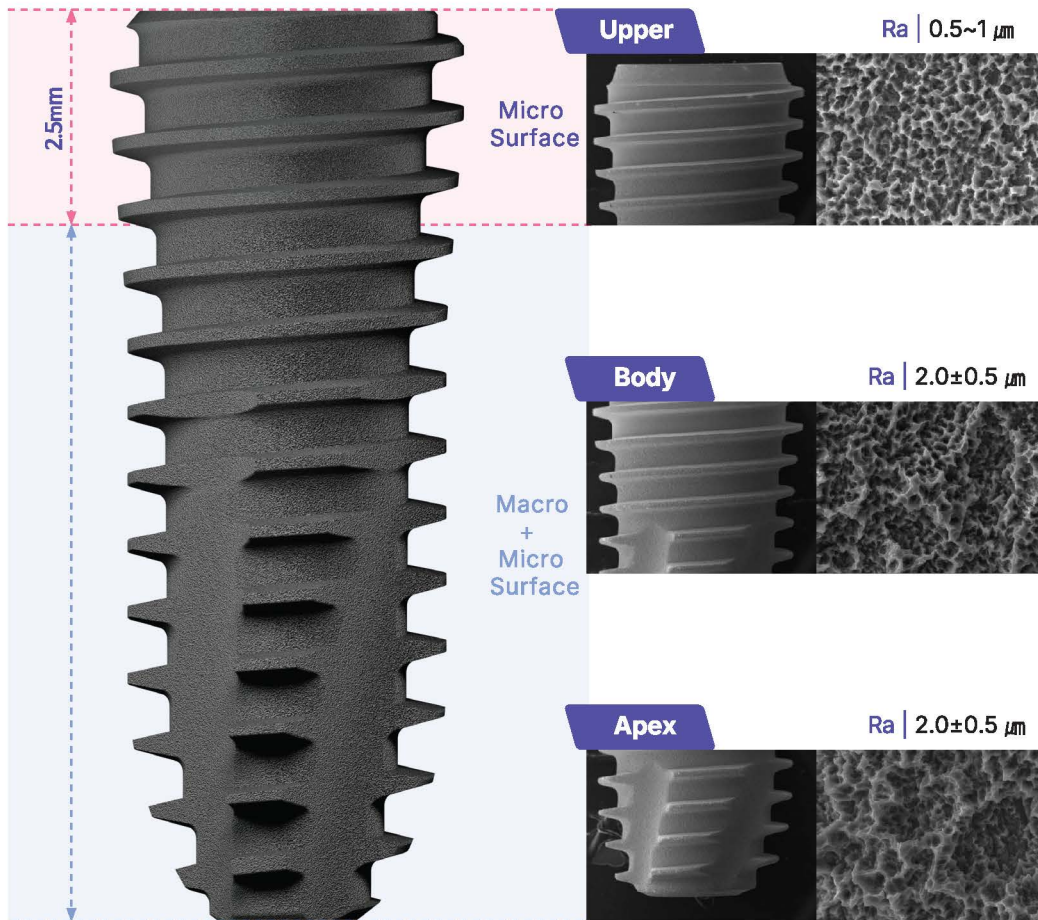
#1. Immediate implantation after mandibular extraction



#2. Maxillary edentulous case

# UFIII Implant Surface is HSA

Hybrid Type SLA Implant



## UFII / UFIII

### UFII Implant

#### Shape

Taper Combined Shape

#### Features

Easy insertion depth control

#### Powerful Insertion

Stable torque at every bone quality

### UFIII Implant

#### Shape

Fully tapered shape

#### Features

Optimized for soft, good initial stability in poor bone

#### Simple Drilling

Shorten drilling protocol by under drilling

## Fixture Design Comparison

### Extra Diameter

Obtains stable fixation even in maxillary sinus cases

### Fully Taper Body

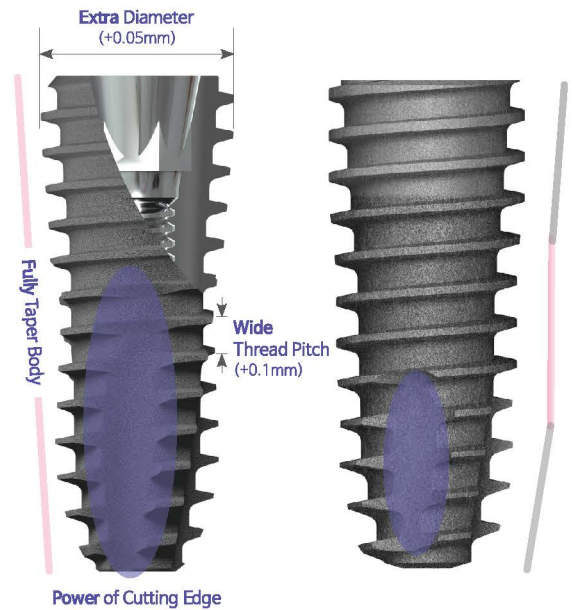
The entire taper type avoids interference with adjacent teeth and enables stable implantation.

### Wide Thread Pitch

Increases initial fixation strength in soft bone with large threads

### Power of Cutting Edge

Self-tapping is easily achieved even in under drilling due to the long and sharp edge shape.



Selection guide		UF III	UF II
Bone	D1	△	○
	D2	○	○
	D3	○	△
	D4	○	△
Treatment location	Maxillary molar region	○	○
	Maxillary molar region	○	△
	Maxillary molar region	X	○
	Maxillary molar region	△	○
Immediate implantation after extraction		○	△

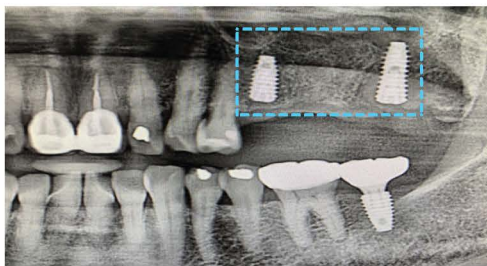
○ Recommendation

△ Both

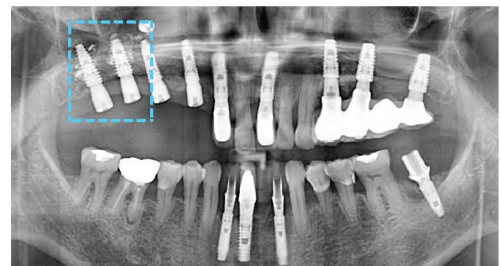
X Not-Recommendation

## UFIII Clinical Cases

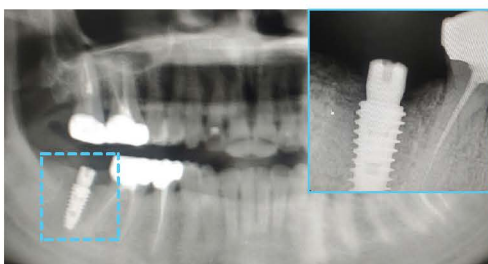
01 Maxillary Soft Bone Case



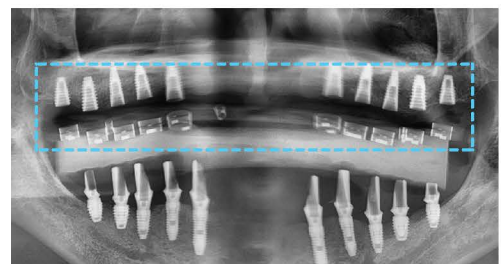
02 Maxillary Soft Bone Case



03 Mandibular extraction and immediate implant case



04 Edentulous maxilla Case



# DIO VUV Implant

Stronger and Faster VUV Photofunctionalized Implant

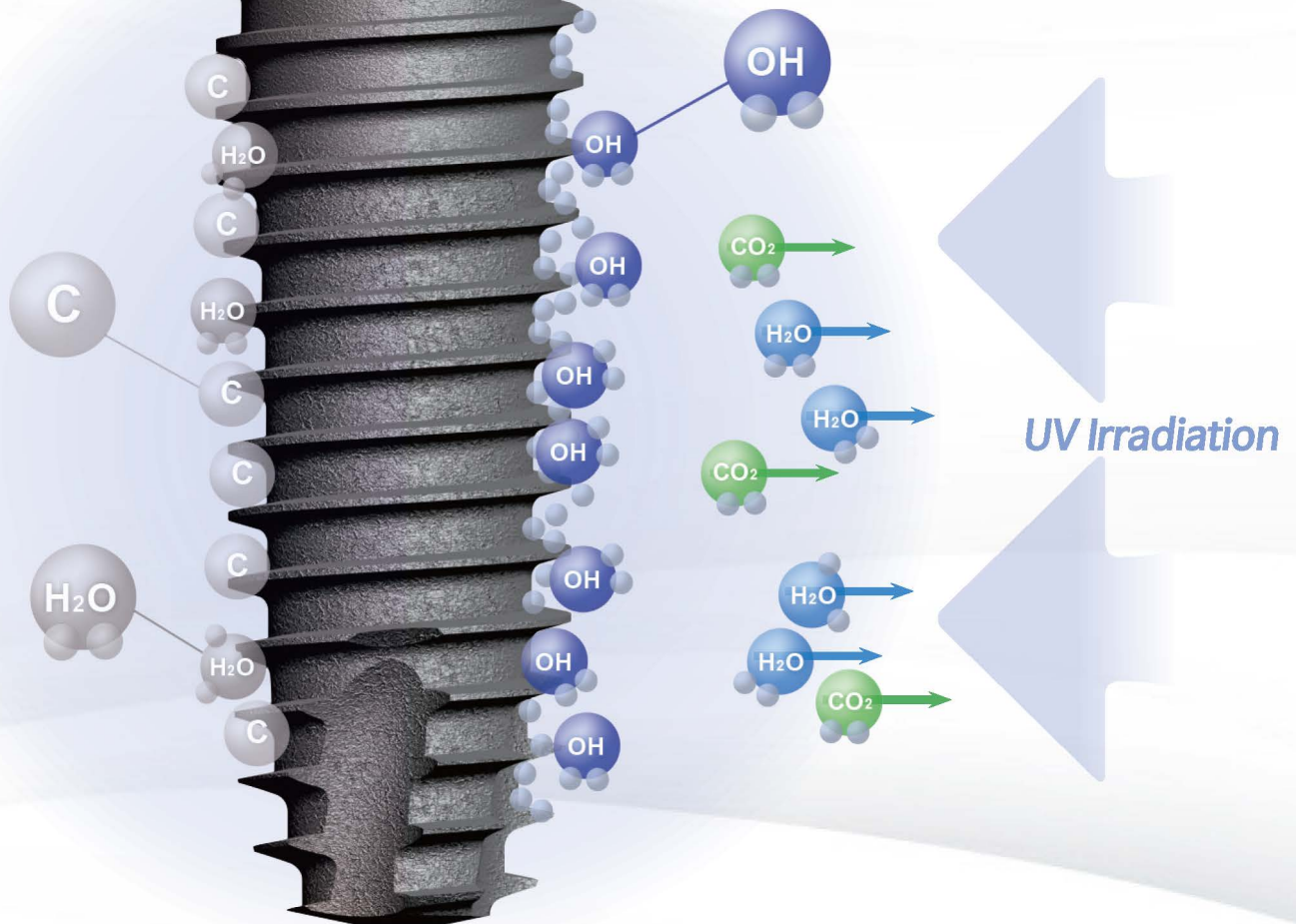
IMPLANT SYSTEM

VUV IMPLANT SYSTEM

UV Photofunctional Effect

## Photofunctional Effect Through UV Irradiation

Superhydrophilic effect on surface through the adaptation of **photocatalysis**.



## VUV Clinical Application

*Fast Osseointegration! High Blood Wettability!*

For elderly patients with weak gingiva bone !

For busy patients who need to save time!

High Osseointegration rate even in immediate placement Cases with extraction sockets that are bigger than the implant!

High success rate!

Shorter implants!



Video: Introduction to DIO VUV Implant

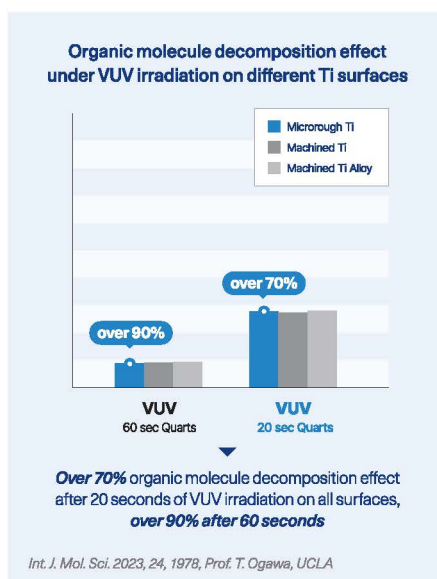
## World's First Second-Level Photofunctionalization

- 01 Achieve superhydrophilic surface in just 20 Seconds of VUV irradiation
- 02 360° cylindrical VUV lamp for perfect VUV irradiation  
Our high-energy, semiconductor grade 172 nm VUV light source sets us apart from competitors using low-energy UVC plasma sources



## Minimize Infection Risk and Maximize VUV Effect with Quartz Ampoule

- 01 Our safe quartz ampoule prevents contamination even when exposed to air  
Bacterial detection test confirms "No Bacteria Observed"  
(Department of Oral Physiology, School of Dentistry, Pusan National University, 2020.01.15)
- 02 Confirmation of comparable hydrophilicity effect on implant surface to direct VUV irradiation using our Quartz Ampoule.
- 03 Plasma attached without gaps around implant screw maximizes bonding strength for osseointegration



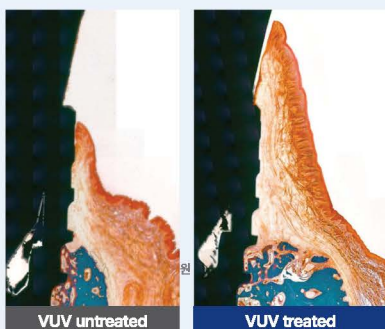
## Over 900,000 Cumulative Global Sales

Our VUV Implant System is commercially proven and widely embraced by healthcare professionals worldwide.

## Hydrophilicity Enhancement on Various Restorations

- 01 VUV irradiation achieves hydrophilicity on abutments and crowns
- 02 Photoactivation effect equally effective in zirconia
- 03 Specially designed jig for precise and efficient photoactivation of abutments

Observation of gingival changes four weeks after Healing Abutment attachment following VUV irradiation



Purpose-built Jig for Abutment photoactivation



# UFII Implant System

Hybrid Type SLA Implant

IMPLANT SYSTEM

UFII FIXTURE SIZE

## UF II Short Regular

- Ⓧ Ø4.0 / Ø4.5 / Ø5.0 / Ø5.5
- Ⓛ 5.5

## UF II Narrow

- Ⓧ Ø3.0 / Ø3.3
  - Ⓛ 8.5 / 10 / 11.5 / 13 / 15
- UV Active

## UF II Regular

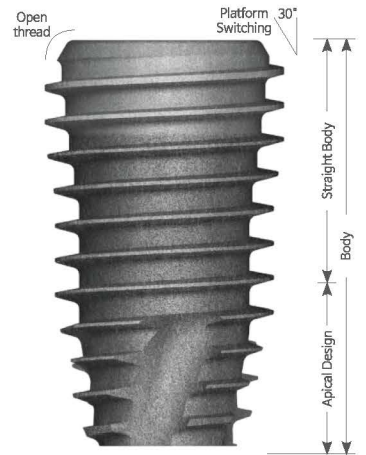
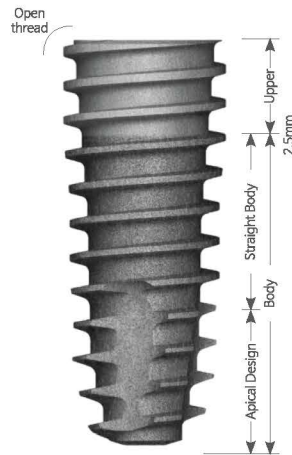
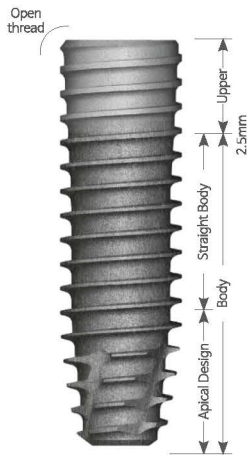
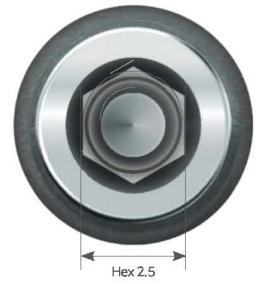
- Ⓧ Ø3.8 / Ø4.0 / Ø4.5 / Ø5.0 / Ø5.5
  - Ⓛ 7 / 8.5 / 10 / 11.5 / 13 / 15 / 16 / 18
- UV Active

## UF II Wide

- Ⓧ Ø5.9 / Ø6.4 / Ø6.9
- Ⓛ 7 / 8.5 / 10 / 11.5 / 13

## UF II Short Wide

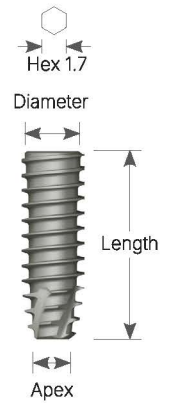
- Ⓧ Ø6.0 / Ø6.5 / Ø7.0
- Ⓛ 5.5



# Narrow Fixture

►  $\varnothing 3.0$  fixture exclusive for anterior region.

- HSA / Packing Unit : Fixture | Order code : UF(II)N 0000SF [ex : UF(II)N 3008SF]  
 Fixture + Cover Screw | Order code : UF(II)N 0000S [ex : UF(II)N 3008S]
- UV Active / Packing Unit : Fixture | Order code : UF(II)N 0000UV3 [ex : UF(II)N 3008UV3]
- Accessories : Cover Screw (UNSCS 2700)



## **N** D $\varnothing 3.0$ Hex 1.7 Apex $\varnothing 1.6$

Unit mm | Scale 1:1.2

Length	8.5	10	11.5	13	15
--------	-----	----	------	----	----



HSA	UF(II)N 3008SF	UF(II)N 3010SF	UF(II)N 3011SF	UF(II)N 3013SF	UF(II)N 3015SF
UV Active	UF(II)N 3008UV3	UF(II)N 3010UV3	UF(II)N 3011UV3	UF(II)N 3013UV3	-

## **N** D $\varnothing 3.3$ Hex 1.7 Apex $\varnothing 1.9$

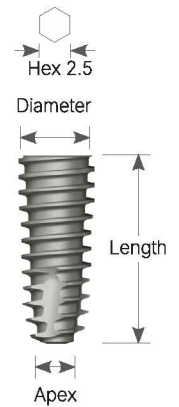
Length	8.5	10	11.5	13	15
--------	-----	----	------	----	----



HSA	UF(II)N 3308SF	UF(II)N 3310SF	UF(II)N 3311SF	UF(II)N 3313SF	UF(II)N 3315SF
UV Active	UF(II)N 3308UV3	UF(II)N 3310UV3	UF(II)N 3311UV3	UF(II)N 3313UV3	-








# Regular Fixture

- HSA / Packing Unit : Fixture | Order code : UF ( II ) 0000SF [ex : UF ( II ) 3808SF]  
 Fixture + Cover Screw | Order code : UF ( II ) 0000S [ex : UF ( II ) 3808S]
- UV Active / Packing Unit : Fixture | Order code : UF ( II ) 0000UV3 [ex : UF ( II ) 3808UV3]
- Accessories : Cover Screw (SSCS 3400)












## R D Ø3.8 Hex 2.5 Apex Ø1.4










Unit mm | Scale 1 : 1.2

Length	5.5	7	8.5	10	11.5	13	15	16	18
									
HSA	-	-	UF(II) 3808SF	UF(II) 3810SF	UF(II) 3811SF	UF(II) 3813SF	UF(II) 3815SF	UF(II) 3816SF	UF(II) 3818SF
UV Active	-	-	UF(II) 3808UV3	UF(II) 3810UV3	UF(II) 3811UV3	UF(II) 3813UV3	-	-	-










## R D Ø4.0 Hex 2.5 Apex Ø1.6

Length	5.5	7	8.5	10	11.5	13	15	16	18
									
HSA	UF(II) 4005SF	UF(II) 4007SF	UF(II) 4008SF	UF(II) 4010SF	UF(II) 4011SF	UF(II) 4013SF	UF(II) 4015SF	UF(II) 4016SF	UF(II) 4018SF
UV Active	UF(II) 4005UV3	UF(II) 4007UV3	UF(II) 4008UV3	UF(II) 4010UV3	UF(II) 4011UV3	UF(II) 4013UV3	-	-	-










## R D Ø4.5 Hex 2.5 Apex Ø1.6

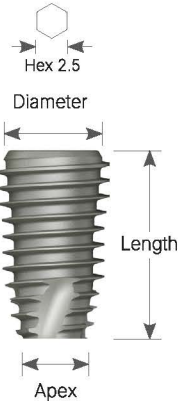
Length	5.5	7	8.5	10	11.5	13	15	16	18
									
HSA	UF(II) 4505SF	UF(II) 4507SF	UF(II) 4508SF	UF(II) 4510SF	UF(II) 4511SF	UF(II) 4513SF	UF(II) 4515SF	UF(II) 4516SF	UF(II) 4518SF
UV Active	UF(II) 4505UV3	UF(II) 4507UV3	UF(II) 4508UV3	UF(II) 4510UV3	UF(II) 4511UV3	UF(II) 4513UV3	-	-	-

## R D Ø5.0 Hex 2.5 Apex Ø2.0

Length	5.5	7	8.5	10	11.5	13	15	16	18
									
HSA	UF(II) 5005SF	UF(II) 5007SF	UF(II) 5008SF	UF(II) 5010SF	UF(II) 5011SF	UF(II) 5013SF	UF(II) 5015SF	UF(II) 5016SF	UF(II) 5018SF
UV Active	UF(II) 5005UV3	UF(II) 5007UV3	UF(II) 5008UV3	UF(II) 5010UV3	UF(II) 5011UV3	UF(II) 5013UV3	-	-	-

**R D Ø5.5 Hex 2.5 Apex Ø2.5**

Length	5.5	7	8.5	10	11.5	13	15	16	18
									
HSA	UF(II) 5505SF	UF(II) 5507SF	UF(II) 5508SF	UF(II) 5510SF	UF(II) 5511SF	UF(II) 5513SF	UF(II) 5515SF	UF(II) 5516SF	UF(II) 5518SF
UV Active	UF(II) 5505UV3	UF(II) 5507UV3	UF(II) 5508UV3	UF(II) 5510UV3	UF(II) 5511UV3	UF(II) 5513UV3	-	-	-









## Wide Fixture







- HSA / Packing Unit : Fixture | Order code : UF( II ) 0000SF [ex : UF( II ) 6007SF]
- Fixture + Cover Screw | Order code : UF( II ) 0000S [ex : UF( II ) 6007S]
- UV Active / Packing Unit : Fixture | Order code : UF( II ) N 0000UV3 [ex : UF( II ) N 6007UV3]
- Accessories : Cover Screw (SSCS 3400)

**W D Ø5.9 Hex 2.5 Apex Ø3.6**







Unit mm | Scale 1 : 1.2

Length	5.5	7	8.5	10	11.5	13	15
							
HSA	UF(II) 6005SF	UF(II) 6007SF	UF(II) 6008SF	UF(II) 6010SF	UF(II) 6011SF	UF(II) 6013SF	UF(II) 6015SF
UV Active	UF(II) 6005UV3	UF(II) 6007UV3	UF(II) 6008UV3	UF(II) 6010UV3	UF(II) 6011UV3	UF(II) 6013UV3	-

**W D Ø6.4 Hex 2.5 Apex Ø3.6**

Length	5.5	7	8.5	10	11.5	13	15
							
HSA	UF(II) 6505SF	UF(II) 6507SF	UF(II) 6508SF	UF(II) 6510SF	UF(II) 6511SF	UF(II) 6513SF	UF(II) 6515SF
UV Active	UF(II) 6505UV3	UF(II) 6507UV3	UF(II) 6508UV3	UF(II) 6510UV3	UF(II) 6511UV3	UF(II) 6513UV3	-

**W D Ø6.9 Hex 2.5 Apex Ø3.6**

Length	5.5	7	8.5	10	11.5	13	15
							
HSA	-	UF(II) 7007SF	UF(II) 7008SF	UF(II) 7010SF	UF(II) 7011SF	UF(II) 7013SF	UF(II) 7015SF

# UFIII Implant

Stable Initial Fixation for Soft Bone

IMPLANT SYSTEM

UFIII FIXTURE SIZE

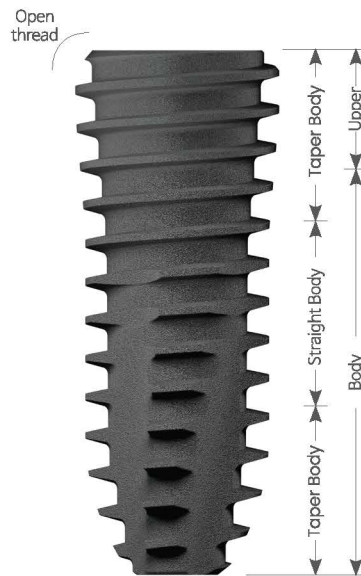


## UF III Regular

□  $\varnothing 3.8 / \varnothing 4.0 / \varnothing 4.5 / \varnothing 5.0$

▮ 7 / 8.5 / 10 / 11.5 / 13

UV Active



## Fixture Design Comparison

### Extra Diameter

Obtains stable fixation even in maxillary sinus cases

### Fully Taper Body

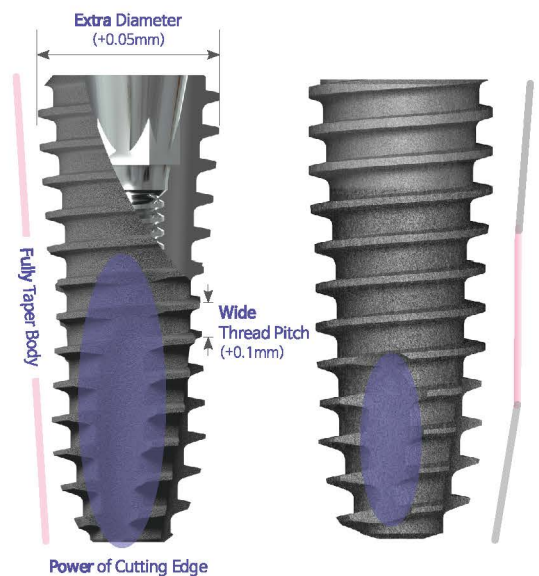
The entire taper type avoids interference with adjacent teeth and enables stable implantation.

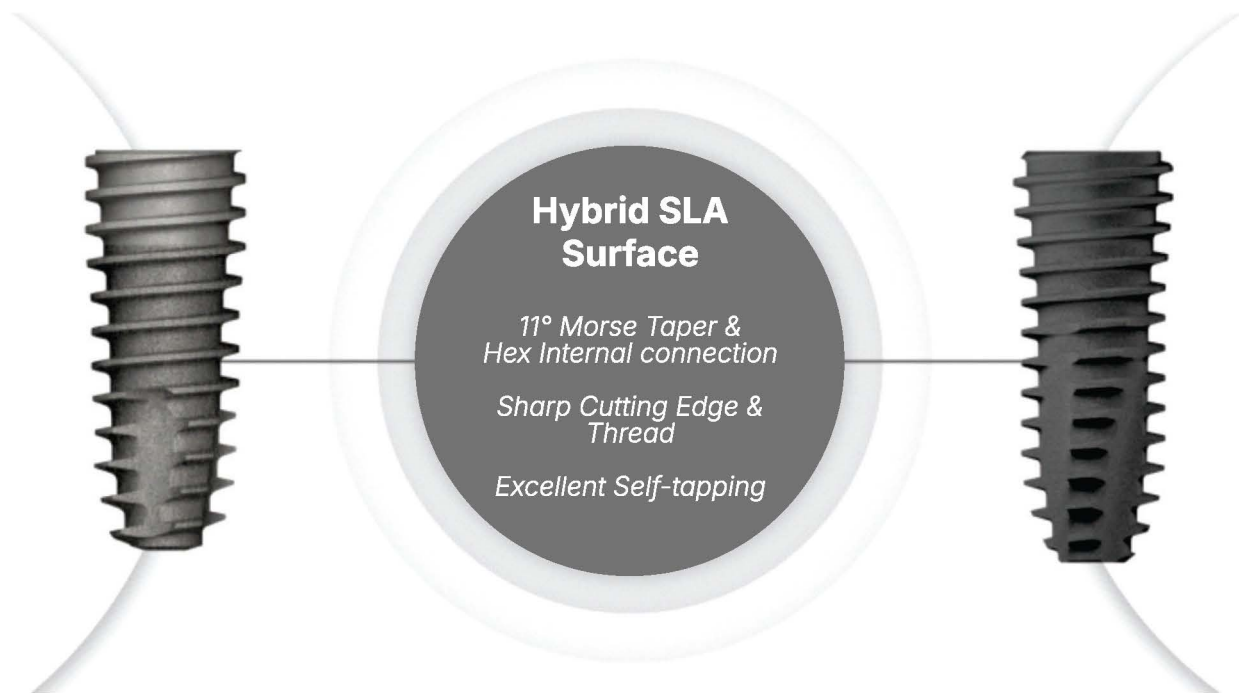
### Wide Thread Pitch

Increases initial fixation strength in soft bone with large threads

### Power of Cutting Edge

Self-tapping is easily achieved even in under drilling due to the long and sharp edge shape.





## Enhanced Initial Stability with specialized design for *Soft Bone*



### Powerful Design for Soft Bone

Enhanced stability and self-tapping function through overall tapered shape and larger cutting edge design.



### Shortened Drill Protocol

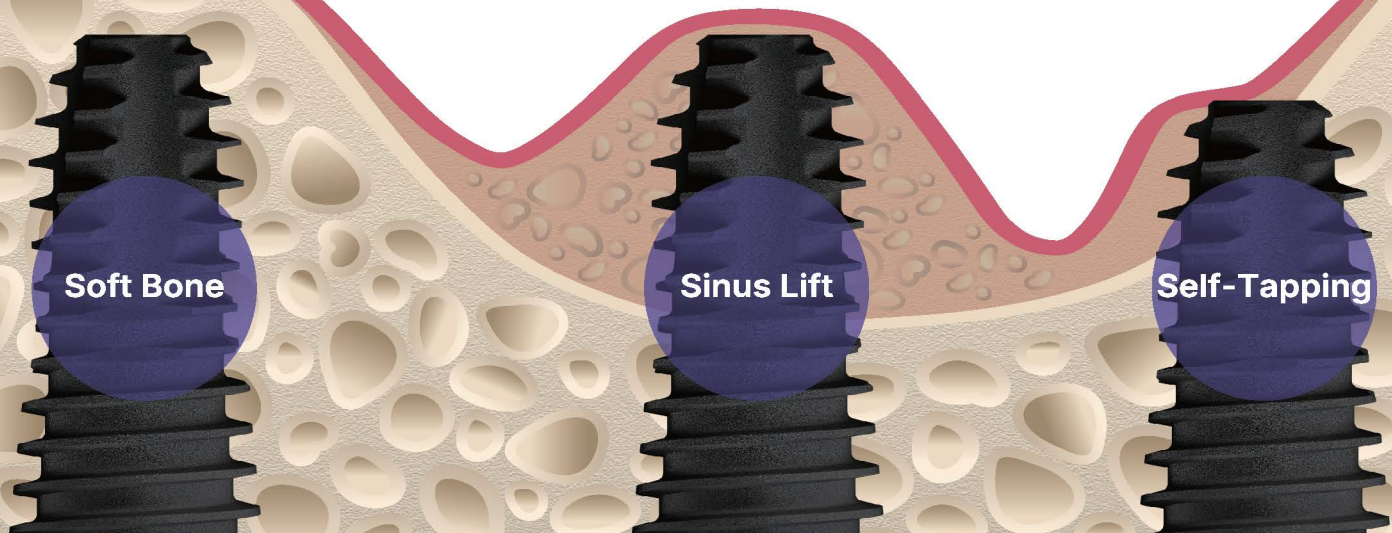
Reduced drilling steps up to 4 stages based on diameter in soft bone, easy self-tapping even during under-drilling.



### Solving Various Indications

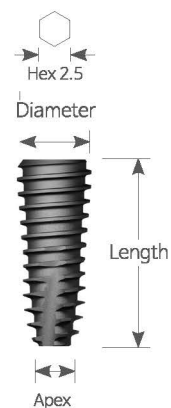
Maxillary sinus, Immediate extraction/placement, edentulism, and more.

*Stable Initial Fixation in Weak Bone - UFIII IMPLANT*



# Regular Fixture

- HSA / Packing Unit : Fixture | Order code : UFIII 0000SF [ex : UFIII 3808SF]
- Fixture + Cover Screw | Order code : UFIII 0000S [ex : UFIII 3808S]
- UV Active / Packing Unit : Fixture | Order code : UFIII N 0000UV3 [ex : UFIII N 3808UV3]
- Accessories : Cover Screw (SSCS 3400)



## R D Ø3.8 Hex 2.5 Apex Ø1.4

Unit mm | Scale 1 : 1.2

Length	7	8.5	10	11.5	13
HSA	-	UFIII 3808SF	UFIII 3810SF	UFIII 3811SF	UFIII 3813SF
UV Active	-	UFIII 3808UV3	UFIII 3810UV3	UFIII 3811UV3	UFIII 3813UV3

## R D Ø4.0 Hex 2.5 Apex Ø1.6

Length	7	8.5	10	11.5	13
HSA	UFIII 4007SF	UFIII 4008SF	UFIII 4010SF	UFIII 4011SF	UFIII 4013SF
UV Active	UFIII 4007UV3	UFIII 4008UV3	UFIII 4010UV3	UFIII 4011UV3	UFIII 4013UV3

## R D Ø4.5 Hex 2.5 Apex Ø1.6

Length	7	8.5	10	11.5	13
HSA	UFIII 4507SF	UFIII 4508SF	UFIII 4510SF	UFIII 4511SF	UFIII 4513SF
UV Active	UFIII 4507UV3	UFIII 4508UV3	UFIII 4510UV3	UFIII 4511UV3	UFIII 4513UV3

## R D Ø5.0 Hex 2.5 Apex Ø2.0

Length	7	8.5	10	11.5	13
HSA	UFIII 5007SF	UFIII 5008SF	UFIII 5010SF	UFIII 5011SF	UFIII 5013SF
UV Active	UFIII 5007UV3	UFIII 5008UV3	UFIII 5010UV3	UFIII 5011UV3	UFIII 5013UV3

# Abutment Components

## Cover Screw (Set of 6)

Cuff	Narrow	Regular
0	UNSCS 2700S	SSCS 3400S



## Healing Abutment

Narrow				Regular-Wide						
Height	Cuff\Ø	Ø 4.0	Ø 4.5	Cuff\Ø	Ø 4.0	Height	Cuff\Ø	Ø 4.0	Ø 5.5	Ø 6.5
2.0	2.0	UNSHA 4020	UNSHA 4520	2.0	SSHA 4020	2.0	2.0	SSHA 4520	SSHA 5520	SSHA 6520
4.0	2.0	UNSHA 4024	UNSHA 4524	4.0	SSHA 4040	4.0	2.0	SSHA 4524	SSHA 5524	SSHA 6524
5.0	3.0	UNSHA 4035	UNSHA 4535	6.0	SSHA 4060	5.5	3.0	SSHA 4535	SSHA 5535	SSHA 6535
7.0	4.0	UNSHA 4047	UNSHA 4547	8.0	SSHA 4080	7.0	4.0	SSHA 4547	SSHA 5547	SSHA 6547
8.5	5.0	UNSHA 4058	UNSHA 4558	-	-	-	-	-	-	-
10.0	6.0	UNSHA 4060	UNSHA 4560	-	-	-	-	-	-	-



## Cemented Abutment (Hex/Non-Hex)

		Narrow	Regular-Wide		
Length	Cuff\Ø	4.0	4.5	5.5	6.5
4.0	1	-	SSCA 45104H/N	SSCA 55104H/N	SSCA 65104H/N
	2	-	SSCA 45204H/N	SSCA 55204H/N	SSCA 65204H/N
	3	-	SSCA 45304H/N	SSCA 55304H/N	SSCA 65304H/N
	4	-	SSCA 45404H/N	SSCA 55404H/N	SSCA 65404H/N
	5	-	SSCA 45504H/N	SSCA 55504H/N	SSCA 65504H/N
	Screw	-	SSC 2008SH	SSC 2008H	SSC 2008H
5.5	1	UNSCA 40105H/N	SSCA 45105H/N	SSCA 55105H/N	SSCA 65105H/N
	2	UNSCA 40205H/N	SSCA 45205H/N	SSCA 55205H/N	SSCA 65205H/N
	3	UNSCA 40305H/N	SSCA 45305H/N	SSCA 55305H/N	SSCA 65305H/N
	4	UNSCA 40405H/N	SSCA 45405H/N	SSCA 55405H/N	SSCA 65405H/N
	5	UNSCA 40505H/N	SSCA 45505H/N	SSCA 55505H/N	SSCA 65505H/N
	6	UNSCA 40605H/N	-	-	-
	7	UNSCA 40705H/N	-	-	-
Screw	UNSCAS 1407H	SSC 2008SH	SSC 2008H	SSC 2008H	
7.0	1	UNSCA 40107H/N	SSCA 45107H/N	SSCA 55107H/N	SSCA 65107H/N
	2	UNSCA 40207H/N	SSCA 45207H/N	SSCA 55207H/N	SSCA 65207H/N
	3	UNSCA 40307H/N	SSCA 45307H/N	SSCA 55307H/N	SSCA 65307H/N
	4	UNSCA 40407H/N	SSCA 45407H/N	SSCA 55407H/N	SSCA 65407H/N
	5	UNSCA 40507H/N	SSCA 45507H/N	SSCA 55507H/N	SSCA 65507H/N
	6	UNSCA 40607H/N	-	-	-
	7	UNSCA 40707H/N	-	-	-
	Screw	UNSCAS 1407H	SSC 2008SH	SSC 2008H	SSC 2008H



## Angled Abutment (Hex A, Hex B, Non Hex) (AH - Hex A, BH - Hex B, N - Non - Hex)

Narrow		Regular-Wide			
Diameter	Ø 4.0	Ø 4.5		Ø 5.5	
Angle		15	25	15	25
Cuff 1.5		SSAA 451515AH/BH/N[H]	SSAA 451525AH/BH/N[H]	SSAA 551515AH/BH/N[H]	SSAA 551525AH/BH/N[H]
2	UNSA 402015BH/N	SSAA 452015AH/BH/N[H]	SSAA 452025AH/BH/N[H]	SSAA 552015AH/BH/N[H]	SSAA 552025AH/BH/N[H]
3		SSAA 453015AH/BH/N[H]	SSAA 453025AH/BH/N[H]	SSAA 553015AH/BH/N[H]	SSAA 553025AH/BH/N[H]
4	UNSA 404015BH/N	SSAA 454015AH/BH/N[H]	SSAA 454025AH/BH/N[H]	SSAA 554015AH/BH/N[H]	SSAA 554025AH/BH/N[H]
5		SSAA 455015AH/BH/N[H]	SSAA 455025AH/BH/N[H]	SSAA 555015AH/BH/N[H]	SSAA 555025AH/BH/N[H]



## Hybrid Link (Hex/Non-Hex)

Narrow (Hex)				Regular-Wide (Hex/Non-Hex)				
Ø 4.0	Post 4	Cuff 1	UNHL 40401H	Ø 4.5	Post 4	Cuff 1	UFHL 45401H/N	
		Cuff 2	UNHL 40402H			Cuff 2	UFHL 45402H/N	
		Cuff 3	UNHL 40403H			Cuff 3	UFHL 45403H/N	
	Post 5	Cuff 1	UNHL 40551H		Ø 5.5	Post 5	Cuff 1	UFHL 45501H/N
		Cuff 2	UNHL 40552H				Cuff 2	UFHL 45502H/N
		Cuff 3	UNHL 40553H				Cuff 3	UFHL 45503H/N
Post 7	Cuff 1	UNHL 40551H	Cuff 1			UFHL 45701H/N		
	Cuff 2	UNHL 40552H	Cuff 2			UFHL 45702H/N		
	Cuff 3	UNHL 40553H	Cuff 3			UFHL 45703H/N		
Ø 5.5	Post 4	Cuff 1	UNHL 40551H			Post 4	Cuff 1	UFHL 55401H/N
		Cuff 2	UNHL 40552H				Cuff 2	UFHL 55402H/N
		Cuff 3	UNHL 40553H				Cuff 3	UFHL 55403H/N
	Post 5	Cuff 1	UNHL 40551H	Post 5	Cuff 1	UFHL 55501H/N		
		Cuff 2	UNHL 40552H		Cuff 2	UFHL 55502H/N		
		Cuff 3	UNHL 40553H		Cuff 3	UFHL 55503H/N		
	Post 7	Cuff 1	UNHL 40551H	Post 7	Cuff 1	UFHL 55701H/N		
		Cuff 2	UNHL 40552H		Cuff 2	UFHL 55702H/N		
		Cuff 3	UNHL 40553H		Cuff 3	UFHL 55703H/N		

## UCLA Abutment - CCM Type (Hex, Non-Hex)



Cuff\Ø	Narrow	Regular-Wide	
	4.0	4.0	4.5
1	UNSCCA 4010H/N	CCSS 4010H/N	CCSS 4510H/N
3	UNSCCA 4030H/N	-	CCSS 4530H/N

## Implant Analog



Length \ Ø	Narrow	Regular-Wide
	Ø 3.0	Ø 4.0
12	UNSFA 3012	SSFA 4012

## Pick-up Impression Coping [Open Tray (Hex/Non-Hex)]



Length / Ø	Narrow	Regular-Wide			
	Ø 4.0	Ø 4.0	Ø 4.5	Ø 5.5	Ø 6.5
9	-	SSPI 4009H/N	SSPI 4509H/N	SSPI 5509H/N	SSPI 6509H/N
12	UNSPI 4012H/N	-	-	-	-
13	-	SSPI 4013H/N	SSPI 4513H/N	SSPI 5513H/N	SSPI 6513H/N
14	UNSPI 4014H/N	-	-	-	-
16	UNSPI 4016H/N	-	-	-	-
17	-	SSPI 4017H/N	SSPI 4517H/N	SSPI 5517H/N	SSPI 6517H/N
19	-	SSPI 4019H/N	SSPI 4519H/N	SSPI 5519H/N	SSPI 6519H/N

## Transfer Impression Coping [Close Tray (Hex/Non-Hex)]



Length / Ø	Narrow	Regular-Wide			
	Ø 4.0	Ø 4.0	Ø 4.5	Ø 5.5	Ø 6.5
10	-	SSTI 4010H/N	SSTI 4510H/N	SSTI 5510H/N	SSTI 6510H/N
13	UNSTI 4013H/N	-	-	-	-
15	UNSTI 4015H/N	SSTI 4015H/N	SSTI 4515H/N	SSTI 5515H/N	SSTI 6515H/N
17	UNSTI 4017H/N	-	-	-	-

## Temporary Abutment (Hex/Non-Hex)













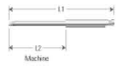


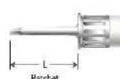
	Narrow	Regular	
	UNSTA	4010 H/N	SSTA
UNSTA	4030 H/N	SSTA	4530 H/N

## Multi Unit Abutment

	Narrow	Regular-Wide
Ø 4.8	Narrow	Regular-wide
Cuff 1.5	MSAN 4801	MSA 4801
2.5	MSAN 4802	MSA 4802
3.5	MSAN 4803	MSA 4803
4.5	MSAN 4804	MSA 4804
5.5	MSAN 4805	MSA 4805
6.5	-	MSA 4806
7.5	-	MSA 4807



## Multi Unit Abutment Components

Healing Cap (D 5.0)			Cemented Cylinder (D 5.4)		
Code	MHC 5005		Code	MCEM 5408H/N	
Pick-up Impression Coping (D 4.8)			Plastic Cylinder (D 5.0)		
Code	MPI 4811H/N		Code	MPLA 5010H/N	
Transfer Impression Coping (4.8)			Temporary Cylinder (D 4.8)		
Code	MTI 4808N		Code	MTEM 4812H/N	
H Scan Body (5.0)			Cylinder Screw		
Code	MHSB 5005H		Code	MSC 1604	
Scan Adapter (D 4.8)			Abutment Analog (D 4.8)		
Code	MSCAN 4808H		Code	MLA 4815H	
Multi unit Screw Driver			Digital Analog (D 4.8)		
Code	MMD 1224		Code	MDA 4813	
Multi unit Straight Screw Driver			Multi unit Screw Driver		
Code	HD 2012A		Code	MHD 1215	


## Angled Multi Unit Abutment (Hex/Non-Hex)

Narrow			Regular-Wide		
Ø 3.0/3.3	20 Degree	30 Degree	Ø 4.8	20 Degree	30 Degree
Cuff 2.5	MAAN 482520H/N	-	Cuff 2.5	MAA 482520H/N	-
3.0	MAAN 483020H/N	-	-	-	-
3.5	MAAN 483520H/N	MAAN 483530H/N	3.5	MAA 483520H/N	MAA 483530H/N
4.5	MAAN 484520H/N	MAAN 484530H/N	4.5	MAA 484520H/N	MAA 484530H/N
5.5	MAAN 485520H/N	MAAN 485530H/N	5.5	MAA 485520H/N	MAA 485530H/N
-	-	-	6.5	MAA 486520H/N	MAA 486530H/N
-	-	-	7.5	MAA 487520H/N	MAA 487530H/N
Screw	UNSA 1407H		MASC 2006		




## Ball Abutment

	Narrow	Regular-Wide
Diameter	Ø 3.5	Ø 3.5
Length 1	UNSBA 3510	SSBA 3510
2	UNSBA 3520	SSBA 3520
3	UNSBA 3530	SSBA 3530
4	UNSBA 3540	SSBA 3540
5	UNSBA 3550	SSBA 3550
6	UNSBA 3560	SSBA 3560
7	UNSBA 3570	SSBA 3570

Ball Abutment Driver	
Code	HD 2406A HD 2412A
O-Ring	
Diameter	Ø 4.5
	OR 0450 B    OR 0450 O
	 



## Ball Abutment Analog

Ball Abutment Analog			
	Narrow	Regular-Wide	
Diameter	Ø 3.5		
	UNSBAA 3510	SABA 3510	
Retainer			
Diameter	Ø 5.0		
	RT 0502		
Ball Cap			
Diameter	Ø 5.0		
	BC 5004		

## Locator



Cuff 1	Narrow	Regular-Wide
1	02961	02967
2	02962	02968
3	02963	02969
4	02964	02970
5	02965	02971
6	02965	02972



Male				
Retention	1.5 LBS	3 LBS	5 LBS	-
20 degree	LOC 8529	LOC 8527	LOC 8524	-
Retention	0 LBS	1 LBS	2 LBS	4 LBS
40 Degree	LOC 8558	LOC 8548	LOC 8915	LOC 8547
Male Package		-	-	-
1 Set	2 Set	-	-	-
LOC 8519	8519-2	-	-	-

## Digital Lab Analog



Narrow	Regular
DAU 3009	DAU 4509

## Scan Adapter



Length	Narrow	Regular-Wide
9	SCAN 41	SCAN 01[H]
15	SCAN 41-15	SCAN 01-15[H]

## H - Scan Body



Narrow		Regular-Wide					
Length / Ø	Ø 4.0	Length / Ø	5	Length / Ø	6	7	
4	UNHSB 404H	4	HSCAN 541H	4	HSCAN 641H	HSCAN 642H	HSCAN 741H
6	UNHSB 406H	6	HSCAN 561H	6	HSCAN 661H	HSCAN 662H	HSCAN 761H
8	UNHSB 408H	8	HSCAN 581H	8	HSCAN 681H	HSCAN 682H	HSCAN 781H
10	UNHSB 410H	-	-	-	-	-	-
12	UNHSB 412H	-	-	-	-	-	-



Video: Introduction to Cementless Prostheses

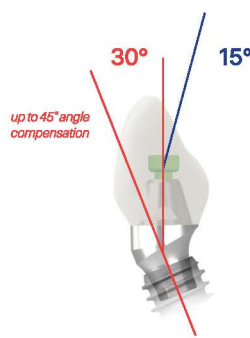
# Multiunit Abutment I

## DeSR Abutment (Two Channel Abutment Coming Soon)

Revolutionary Cementless Restoration System for Reduced Chair Time

	Residual cement	Infection prevention	Aesthetic restoration	Vertical height	Cost
Multiunit Abutment	None	Possible	Up to 45° compensation angle	Minimum 6mm required / Gingival cuff possible	More affordable than Custom Abutment
DeSR Abutment	None	Possible	Various sizes selectable	Can accommodate cases lower than 5mm	Most economical

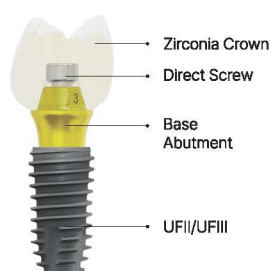
### SRP Type Multiunit Abutment



Aesthetic restorations with up to 45° angle compensation

- 01 **Cementless Direct Crown** that attaches Zirconia restoration directly onto the Multiunit Abutment
- 02 **Round type specialized screw** for stress distribution and stability
- 03 **Ability to contour the gum line** if the crown is longer than adjacent teeth
- 04 Create screw holes at desired locations with up to 45° compensation for **aesthetically pleasing restoration**
- 05 **Reasonable cost** compared to custom abutments

### SRP Type DeSR Abutment



Connect the Healing Cap to the Base Abutment



Remove the Healing Cap Keep Base Abutment



Connect the Scanbody to the Base Abutment



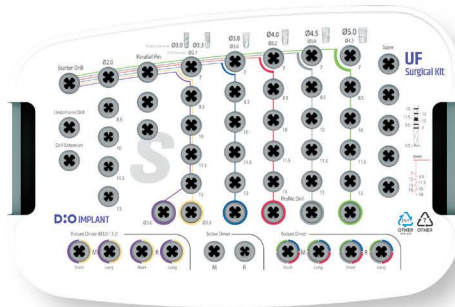
Remove the Scanbody Keep Base Abutment

- 01 **Achieve bacterial prevention and maintain recovered tissues** with direct screw-zirconia restoration connection, without the use of a post.
- 02 Various Base abutment diameters are available to **suit different cases, including anterior and posterior teeth.**
- 03 **Restoration is possible even in cases with a vertical height of up to 5mm.**
- 04 **The most economical option** compared to custom and prefabricated abutments.

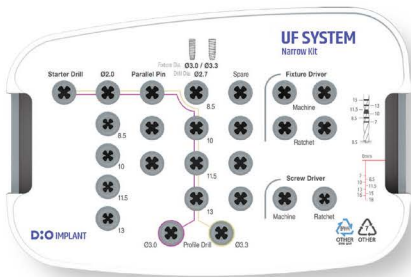
# UF Surgical Kits (Conventional)

SURGICAL KITS

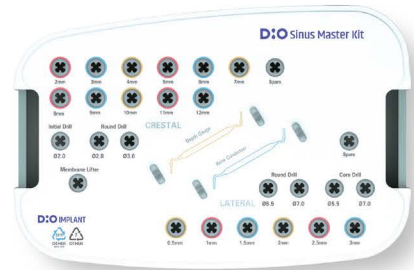
UF SURGICAL KITS



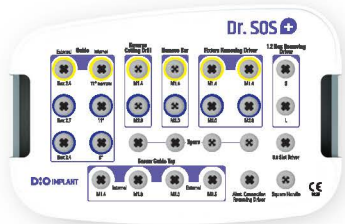
UF II Surgical Kit (UF 07)



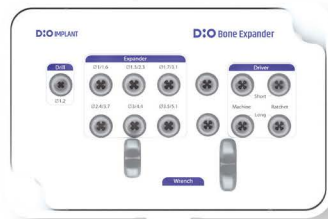
UF II Narrow Kit (UF 08)



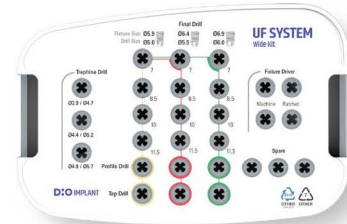
UF II Sinus Master Kit (SMK 01)



Dr. SOS Kit (DRS 02)



Bone Expander kit (BEP M 00)



UF II Wide Kit (UF M 09)



Torque Wrench DTW 0060

HD 1205A HD 1210A HD 1215A HD 1220A HD 1225A HD 1230A



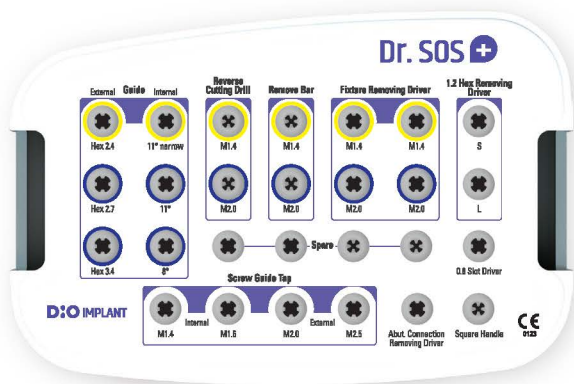
Hex Drivers

# New Dr. SOS+ Kit

Perfectly Resolve Implant Complications with a Single Kit



Video: Introduction to New Dr. SOS+ Kit



## 01 Solve all cases with one kit

Capable of solving all cases such as fixture fracture, abutment fracture, screw fracture, 1.2 hex deformation, etc.

## 02 Simple components

Consists of 17 simple tools to solve all cases

## 03 Intuitive fixture removal protocol

Simple yet reliable performance, as it is completed with just a reverse rotation after attaching the Universal Driver.

## 04 Various screw removal protocols

## Applications



- |                                |  |                                    |
|--------------------------------|--|------------------------------------|
| 01 Adjacent Bone Loss          | 04 Complete Fracture (Horizontal)                  | 07 Wear of Healing/Cover Screw Hex |
| 02 Crack                       | 05 Damage to the internal structure of the Fixture | 08 Abutment Screw Fracture         |
| 03 Partial Fracture (Vertical) | 06 Abutment Fracture                               | 09 Wear of Abutment Screw Hex      |

# DIO NAVI

## Accurate and Safe Digital Implant System

Based on patient's CBCT and oral scan data, we first digitally plan optimal prosthetic design, and then plan the arrangement of implants according to the surgeon's requirement.

DIONavi is one of the most advanced surgical system that maximizes the accuracy of surgery and enables safe surgery using Surgical guide.

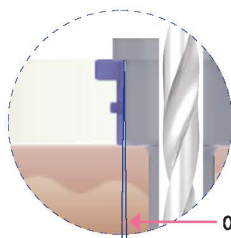
The entire process, from diagnosis to implant procedure, is digitalized, eliminating the hassle and potential for errors associated with analog methods.



### DIO NAVI is Accurate!

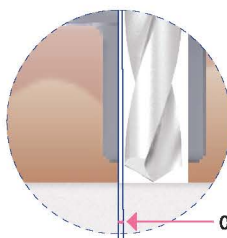
#### 01 Minimizes tolerance error

- Minimizes the gap between the Drill Tube and Metal Sleeve for accurate Initial Drilling
- Reduces error with a long Drill Tube



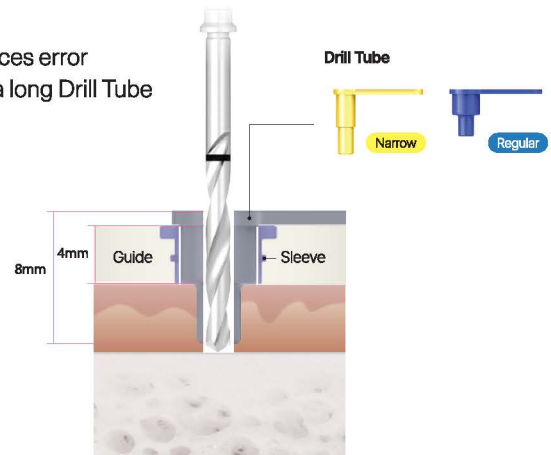
0.01mm

Tolerance between the Drill Tube and Metal Sleeve



0.1mm

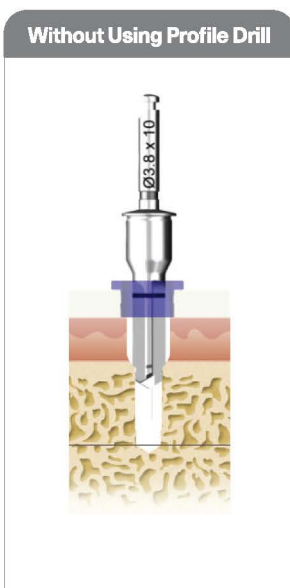
Tolerance between the Drill Tube and Drill



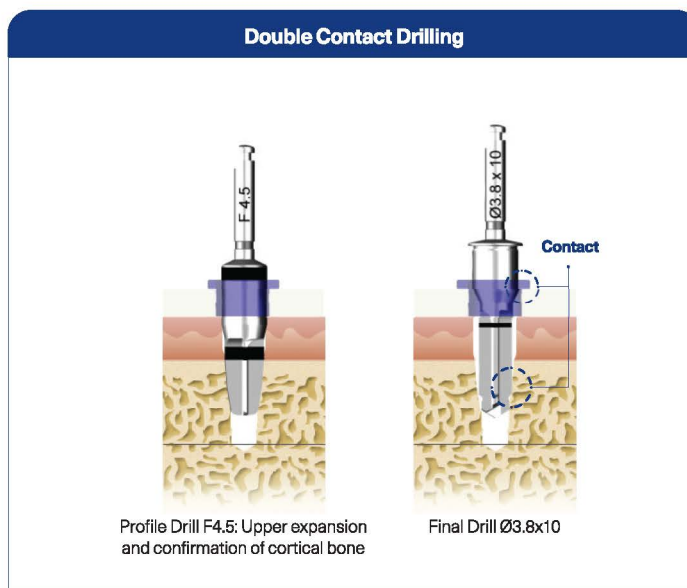
Error due to tolerance = 0.859

#### 02 Minimizes error with Double Contact Drilling

- A dedicated Drilling Protocol takes into account bone characteristics and drill characteristics, resulting in two contacts within the Sleeve and bone, minimizing error along the previous drilling direction.



vs



Profile Drill F4.5: Upper expansion and confirmation of cortical bone

Final Drill Ø3.8x10



Video: Introduction to DIONavi.

## DIO NAVI is Safe!

### 01 No Guide Chip

Metal Sleeve is attached as a standard to the guide to prevent guide deviation during drilling

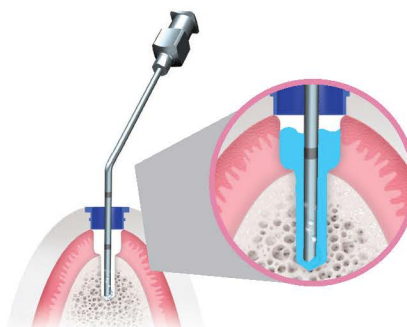
Guide chip has a negative impact on the treated area



- 
- 
- 

### 02 Prevention of Bone Heating

Cooling is possible with a metal needle even in deep bone areas

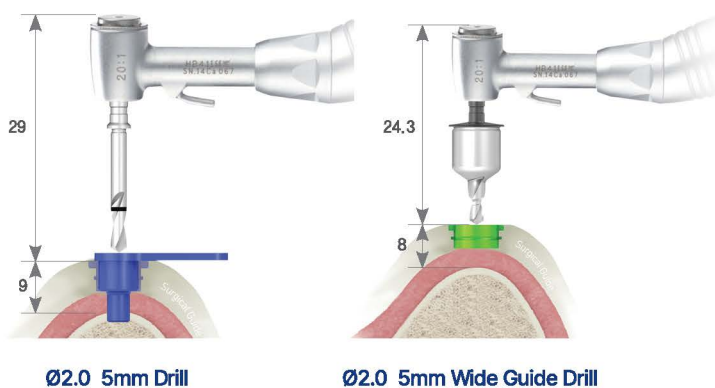


#### Effect of Metal Needle

- Prevention of bone heating
- Cooling to the depth of the hole
- Removal of internal particles

## DIO NAVI is Convenient!

### 01 Convenient treatment even in difficult cases such as restricted mouth opening cases with DIO NAVI wide kit and green sleeve with lesser drill height



# ⚡ DIO NAVI Full Arch

The Most Advanced and Efficient Digital Full Arch Implant Solution

DIO NAVI Full Arch is currently used in dental clinics across 14 countries.

With over 14,000 arch cases of patient treatment experience, the system has been continuously improved to provide the best solution for edentulous patients.

By utilizing the precise and safe DIO NAVI surgical guide, implants are placed and a fixed 1st provisional bridge is delivered on the same day, maximizing patient satisfaction.

The prosthetic workflow, unique to DIO NAVI Full Arch, involves scanning the first fixed provisional bridge to fabricate the second one, achieving high accuracy even with changes in the oral environment during treatment.

This same workflow is applied to the final prosthesis, which is screw-retained and made from highly aesthetic and stable zirconia material.



## Clinical Cases

**Before**



**After**

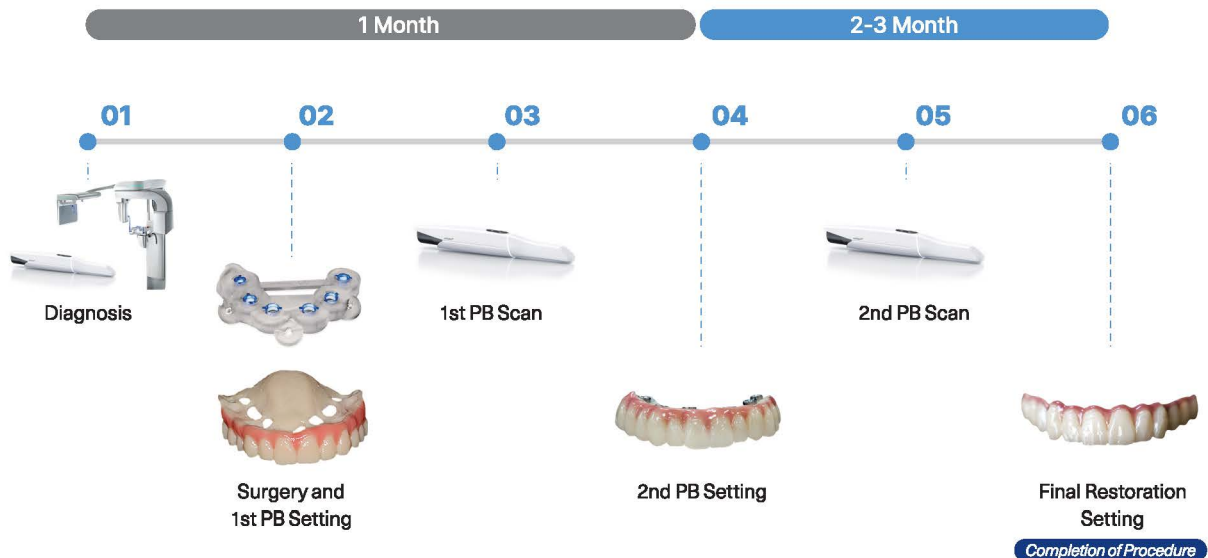


*(Provided by: Newton Dental Hospital)*

- 01 Immediate temporary teeth attached during implant placement.
- 02 Accurate pre-planning with 3D simulation before implant placement using a minimum of 4-6 implants.
- 03 Final full-arch restoration using splinted type Full Zirconia.
- 04 Precise and stable screw-retained final restoration using SRP type Multiunit Abutment.
- 05 Treatment duration as short as 2-4 months.



## Procedure



**Get a full arch restoration in just 6 visits after consultation**



Video: Introduction to  
DIONavi, Full Arch

## Guide and Prostheses



**DIONavi.  
Surgical Guide**



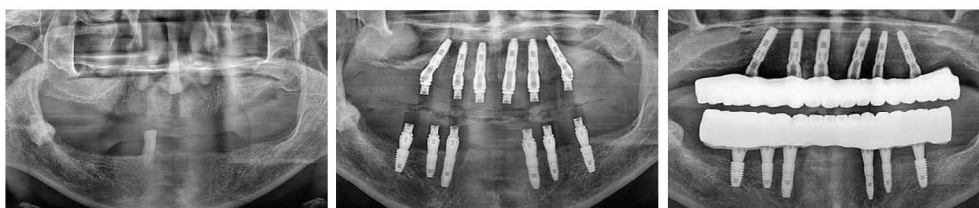
**Provisional  
Bridge**



**Final Restoration  
Full Zirconia**

## Clinical Cases

### Panorama X-ray



### Provisional Bridge Setting

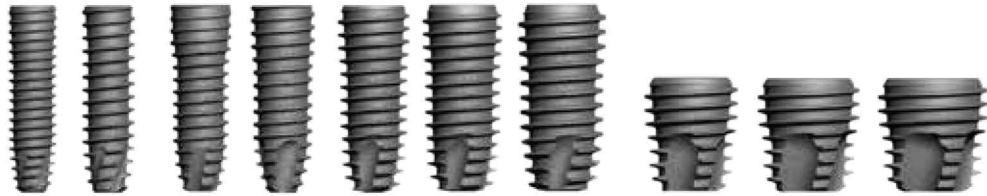


### Final Restoration Setting

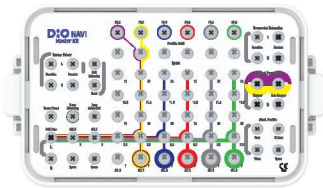


# DIO NAVI Kits

Line-Up DIO Navi Digital Implants & Kits



Fixture Size	Narrow		Regular					Wide		
DIONavi. Sleeve Size	Narrow		Standard			Wide			X	
	3.0	3.3	3.8	4.0	4.5	5.0	5.5	6.0	6.5	7.0

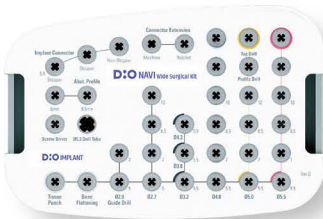


## Regular Case

### DIONavi. Master Kit

Off-Set height : 9 / 10.5 / 12mm

[CODE : UF 05]

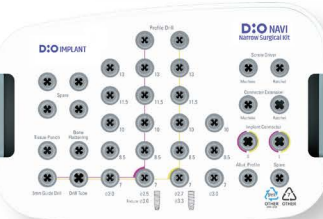


## Wide Case

### DIONavi. Wide Kit

Case with small mouth opening / Case with posterior region  
Off-Set height : 8 / 9.5mm

[CODE : UF 11]

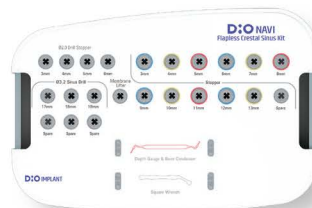
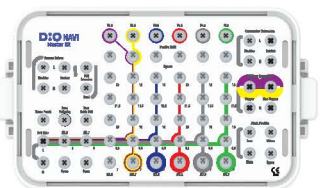


## Narrow Case

### DIONavi. Narrow Kit

Case with narrow bones / Case with narrow interdental space  
Off-Set height : 12mm

[CODE : UF 14]

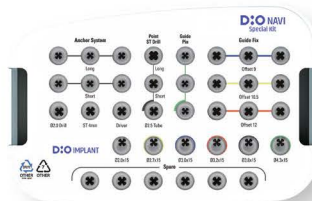
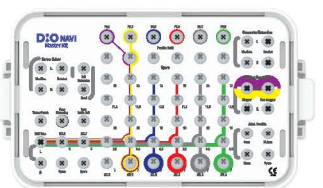


## Sinus Case

### DIONavi. Master Kit & DIONavi. Sinus Crestal Approach Kit

Hydraulic sinus lifting kit

[CODE : SMK 02]



## Edentulous Case

### DIONavi. Master Kit & DIONavi. Special Kit

Free end case / Case of immediate implantation after tooth extraction  
Including 15mm final drill

[CODE : SGF 02]

# D:O Probo Z

Printer optimized for printing prosthesis

DIO PRODUCTS

PROBO Z 3D PRINTER

UNSTOPPABLE  
PERFORMANCE  
EVOLUTION



## Specification



**Dimension**  
300x378x484mm



**Light Wavelength**  
405nm



**Type**  
DLP



**XY Resolution**  
55µm



**Weight**  
20kg



**Build Volume**  
105.6x59.4x80mm



**Touch Screen**  
7inch



**Layer**  
25, 50, 100µm

# Smaller and Lighter



Higher quality and accuracy



Protects user's eyes and resin



Touch screen

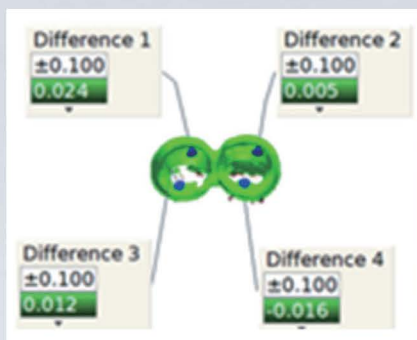


Smaller and lighter exterior

# Faster Speed and Higher Precision

Meet the most detailed output possible with a 3D printer.

Faster and more powerful DIO PROBO Z shows top performance out of all other printers on the market.



Green part  $\pm 50\mu\text{m}$



**Specially designed to work with DIO's proprietary printing materials**

DIO's new dental 3D printer PROBO Z and accompanying software are optimized for manufacturing prosthesis.

**16% increase in printing speed with the new engine**

DIO's new PROBO Z shows improved performance of 16% increase in printing speed compared with the original PROBO, featuring precision degree of less than  $\pm 50\mu\text{m}$  and Full HD (1920 x 1080) quality DLP. A single container of the material produced up to 1,000 prosthesis.

**High-quality prosthesis printed with increased details in printing**

Using DIO's proprietary printing materials\*, batch printing speed is exceptionally fast for even more efficient production in the clinic.

\*14 minutes using "DIOnavi-C&B" and 25 minutes using "DIOnavi-C&B Z" for batch printing 40 single crowns.

**User-friendly design**

The intuitive UI and touch screen increased user convenience. DIO PROBO Z can be used easily by anyone in the clinic.

# D:O Cure2 Probo

Introducing the 3D Printer Curing Machine

DIO PRODUCTS

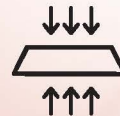
PROBO CURING MACHINE



Touch screen



Setting temperature,  
time, and curing level



Curing the upper and  
lower part at the same time



Upgraded Dual Light Source

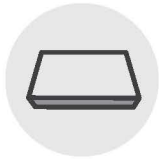
## Specification



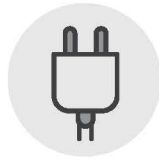
**Dimension**  
249x320x216mm



**Light Position**  
Top / Bottom



**Curing Volume**  
100x100x42mm



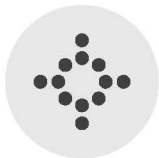
**Input Voltage**  
AC 100-240V, 50/60Hz



**Weight**  
7.5kg



**Power Consumption**  
160W



**Light Source**  
405nm / LED

### Larger capacity

### 405 nm LED wavelength

### Double sided curing

The new DIO PROBO Cure 2 introduces a double sided curing for more effective outcome to improve the prosthesis production process. Compared with the original curing machine, PROBO Cure 2 features a 16% stronger dual LED light sources with increased luminous intensity and uniformity.

### LED power level setting

### Enables curing time control

The LED Power level can be set from level 1 to 5. Curing time can be adjusted in 10-second units, so the optimal curing conditions can be matched with each material.

### Alarm function for safety

DIO PROBO Cure2 has a system that automatically stops when high temperature is detected due to LED overheating. It has a built-in alarm system that notifies the user when there is such an issue.



# *UV Activator 2*



**Attractive to water,  
Attractive to patients!**

*A 20-second Hydrophilic Surface  
Treatment Solution!*



# Intuitive UI



### Power

White – Ready to activate  
Red – Stand by mode

### UV Indicator

Light on – UV cycle active  
Light off – UV cycle complete



### Door

Light on - Door open  
Light off - Door closed

### Dimensions

13.8"(h) X 10.3"(w) X 7.1"(d)  
Power consumption :150W maximum  
Weight : 6kg  
Recommended UV exposure : 20 seconds  
Activates one fixture per cycle

### \* Two color options



Irradiate in just 20 seconds with the 360° full surround UV light

## 20 miraculous seconds

Experience maximal hydrophilic qualities!

	Wet	Dry	
		UV-A Wavelength	DIO UV Activator
<b>Irradiation method</b>	Activated during the manufacturing process, delivered in solution-filled packaging	UV activated before use	UV activated before use
<b>Irradiation time</b>		20 hours ↑	Only 20sec

3,600 times faster!

## Is UV Active right for you?

Consider these:

For elderly patients with weak or insufficient bone

**INDICATED!**

For patients with a busy schedule

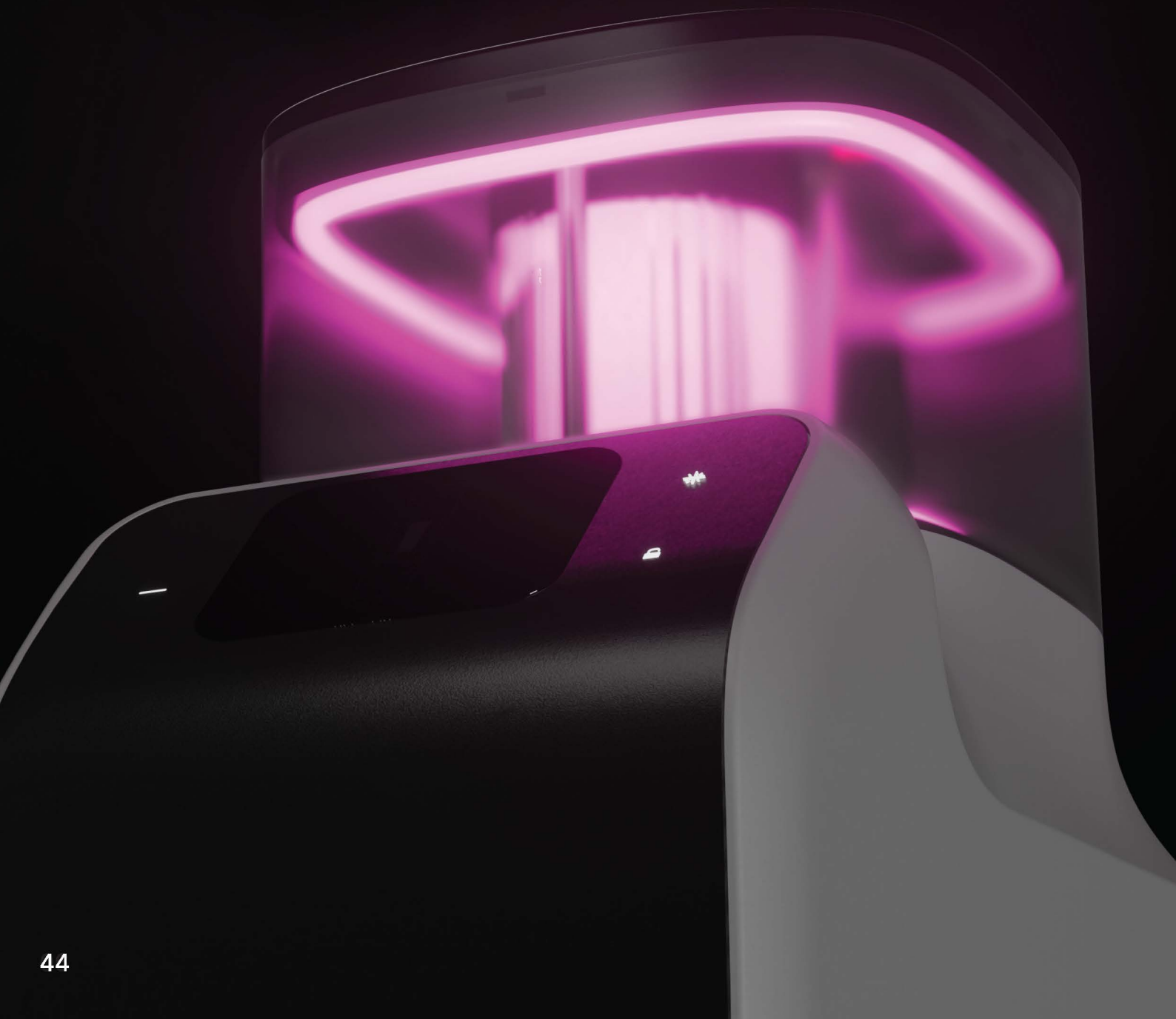
**INDICATED!**

For immediate loading or large post-extraction socket bony defect cases

**INDICATED!**

# Up your game with UV!

- A truly hydrophilic surface with only 20 seconds of UV irradiation
- Bathed in 360 degrees of UV light ensuring maximum activation
- Intuitive user interface, alluring design



NATURAL BONE SUBSTITUTE  
**NEW BONE  
NEW LIFE**



# Sticky Bone without Blood Collection!

## Bovine Bone Mineral

Unable to mold  
Lack of retentivity

Scattered & Flowing

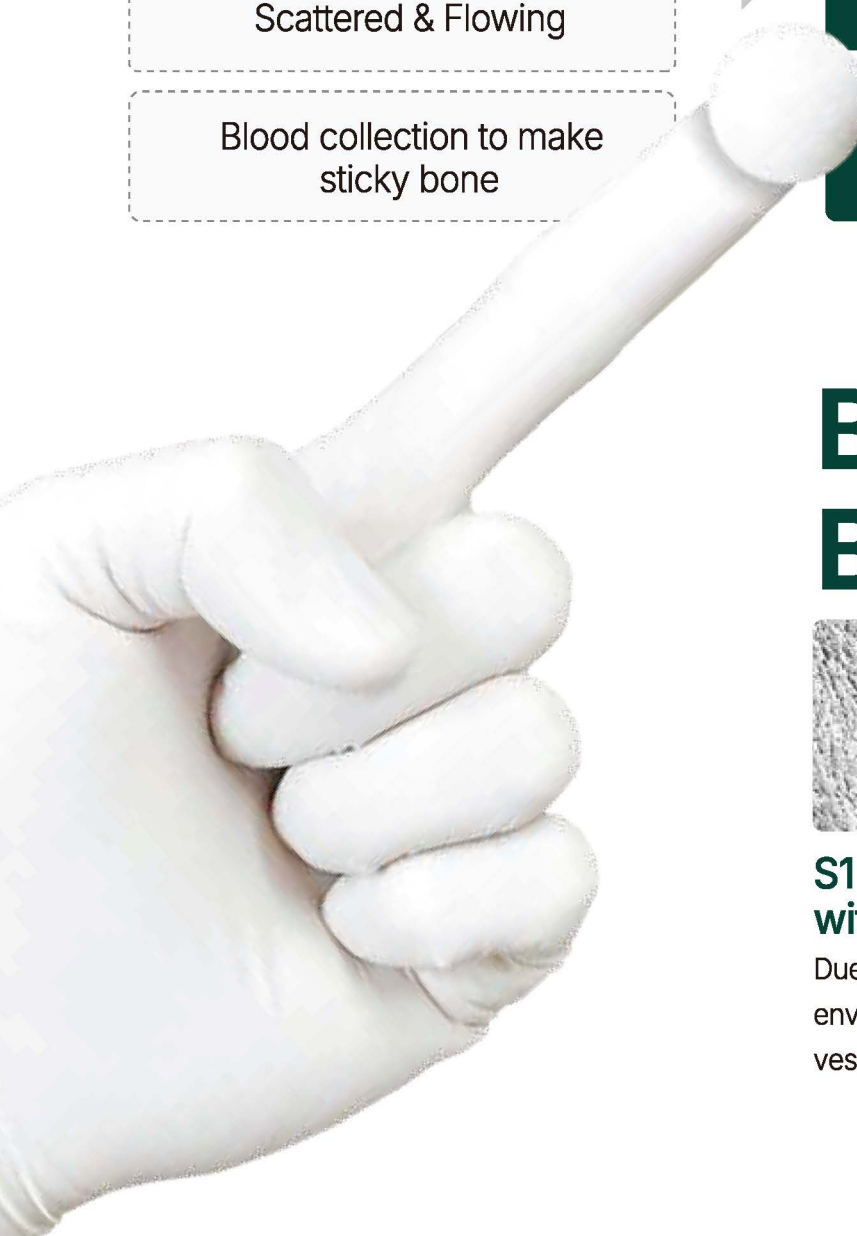
Blood collection to make  
sticky bone



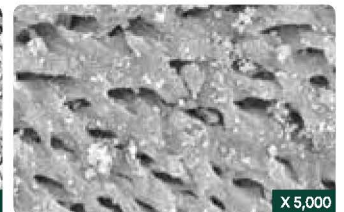
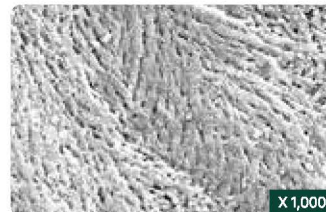
Moldable & Customizing

Customized build up

Sticky bone made easily  
with saline or blood



# BOVINE BONEGRAFT



**S1 has similar structural characteristics with human bones**

Due to its high porosity, S1 provides the most optimal environment for promoting osteoblast adhesion, blood vessel formation, and bone regeneration.

# Keywords



S1 (Bovine Bone)



Bovine Bone Mineral

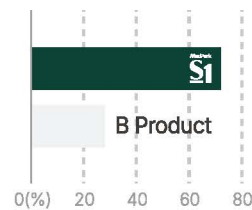
- 1 Excellent adhesion and fixation
- 1 Rigid Space Maintenance
- 1 Excellent osteoconduction



S1 (Bovine Bone)

- 1 Easy to manipulate
- 1 Various indications

## 1 High porosity



### Porosimeter Test

- Percentage of porosity is more than 70%
- High porosity allows rapid penetration of growth factors

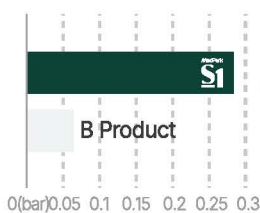
## 1 Improved Hydrophilicity



### Hydrophilicity Test

- Porous structure makes blood circulation easily

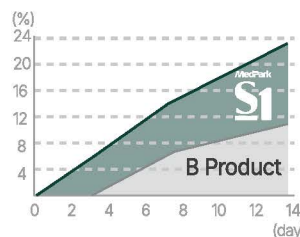
## 1 Excellent shape maintenance



### Pressure Test

- Perfect shape maintenance against high pressure from outside compared to other bone

## 1 Bone formation rate



### Mass Increase Test

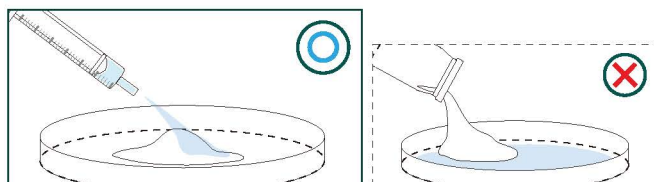
- High attachment rate of ions to S1
- 21% increase in mass after 14 days due to high adhesive rate of ions

# Quick Guide

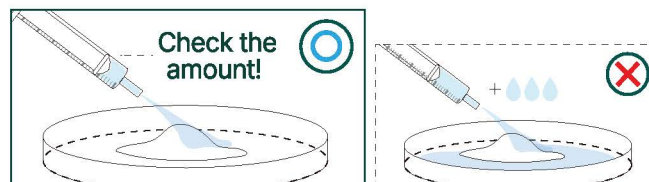
- Please apply the liquid as indicated
- Each package is for one-time use only
- Do not mix with other bonegraft
- Mix with solutions well enough



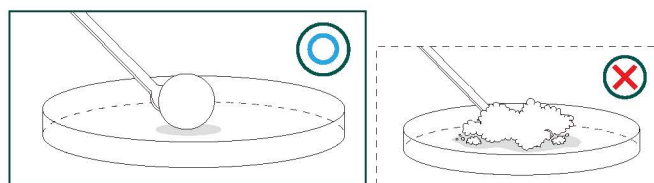
E-mail [biz@medpark.net](mailto:biz@medpark.net)  
[www.medpark.net](http://www.medpark.net)



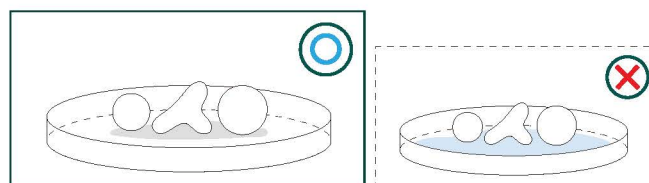
1 Place S1 in the tray and hydrate the materials with saline



1 Please use the recommended amount of saline only.



1 Knead the dough enough for at least 30 seconds by using hands or tools to form a lumpy shape before using S1.



1 Do not soak in saline after shaping for a surgery

## Recommended Hydration Amount

Particle size	Weight	Recommended Hydration Amount
0.2 ~ 1.0 mm (Powder Type)	0.5cc (≈ 0.25g)	0.3 cc
	1cc (≈ 0.5g)	0.6 cc
	2cc (≈ 1.0g)	1.2 cc

Particle size	Weight	Recommended Hydration Amount
1.0 ~ 2.0 mm (Chip Type)	0.75cc (≈ 0.25g)	0.4 cc
	1.5cc (≈ 0.5g)	0.8 cc
	3cc (≈ 1.0g)	1.6 cc
	6cc (≈ 2.0g)	3.2 cc





## Bovine bonegraft manufactured by Sintering Technology of MedPark

DIO PRODUCTS  
BONEGRAFT MEDPARK BOSS

**Biocompatibility** ➔

- High blood permeability, similar pH to body fluids, rapid new bone formation without inflammatory reactions
- Sticky bone formation through PRF and CGF with independent process technology

**Excellent Pore Structure** ➔

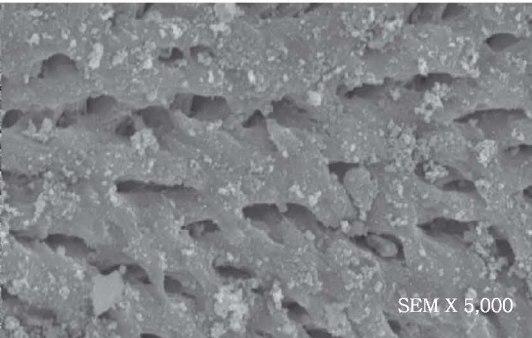
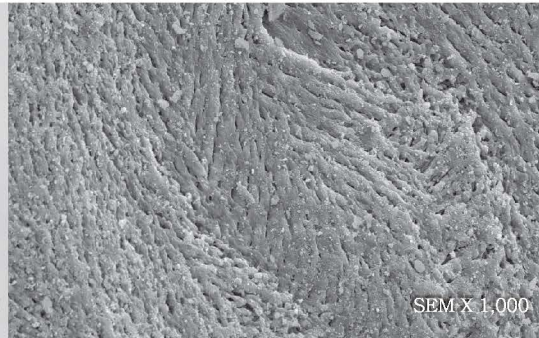
- Selection of proper size of graft materials for suitable environment for bone regeneration
- Increased micropores allows the migration of osteoblasts for increasing new bone formation

**Easy Manipulation** ➔

- Enhanced hydrophilicity allows user to manipulate easily
- Applicable to various indication such as Socket Preservation, Sinus lift, Periodontal Defects and Ridge Augmentation

### Specifications

Source	Particle size	Weight	Volume
Bovine	0.2 ~ 1.0 mm (Powder Type)	0.25 g	0.5 cc
		0.5 g	1.0 cc
		1.0 g	2.0 cc
	1.0 ~ 2.0 mm (Chip Type)	0.25 g	0.75 cc
		0.5 g	1.5 cc
		1.0 g	3.0 cc
		2.0 g	6.0 cc



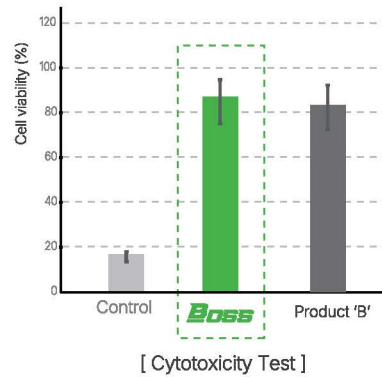
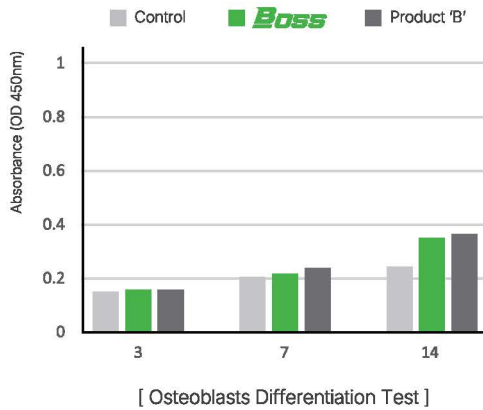
## Perforations similar to human bones

### High pore rate confirmed by the Porosimeter Test

Rough surface of microstructure makes osteoblast stick to the surface easily  
 (\* Measure the size and pore rate of pores present on the sample surface by adsorbing mercury on the specimen)

Type	Product	Porosity (%)
Powder	<b>BOSS</b>	<b>70.20</b>
	Company 'A'	48.74
	Company 'B'	36.36

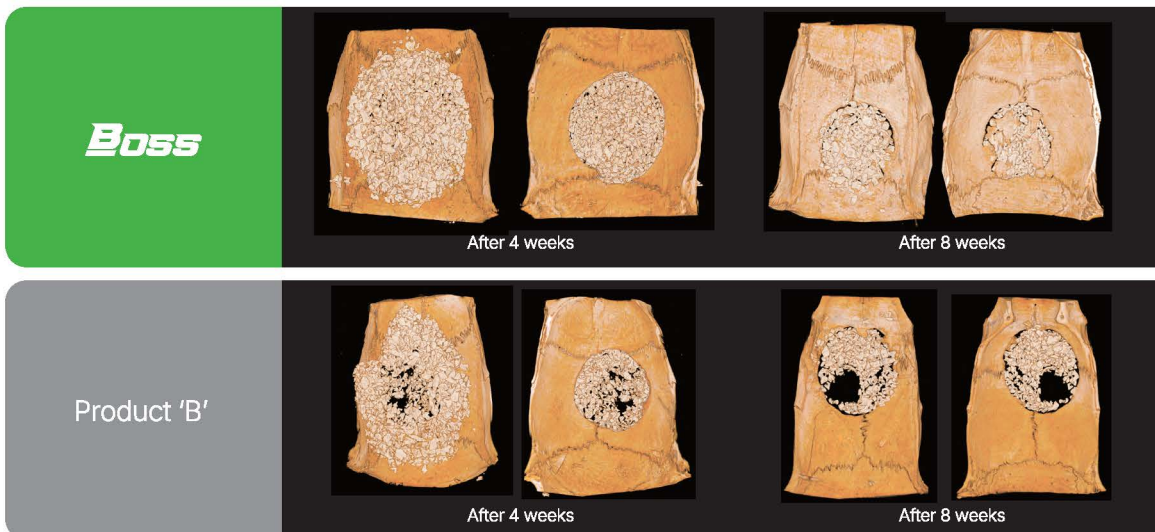
## Excellent bone formation & biocompatibility



- Safe and stable bonegrafts without toxicity
- Cell survival rate was equivalent to that of the Product 'B'
- Complete safety and stability verification as bonegraft
- Excellent biocompatibility, good differentiation of osteoblasts

## Pre-clinical case

Space maintenance test (Micro CT) : Small Animal (Rat)



- Superior space provision after 4 and 8 weeks in defect when compared to product 'B'



## Resorbable collagen membrane with Medpark's crosslinking technology

DIO PRODUCTS  
BONEGRAFT MEDPARK COLLA



- Using type I bovine collagen through standardized refining process
- Biocompatibility improvement of crosslinking technology ensures safety without inflammatory reactions



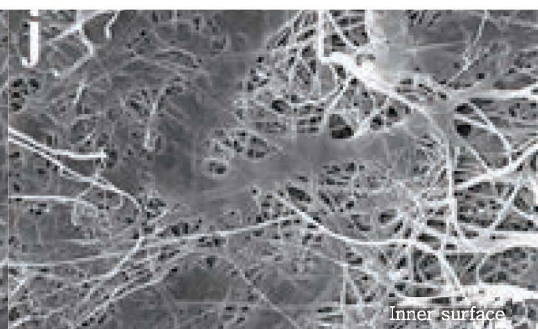
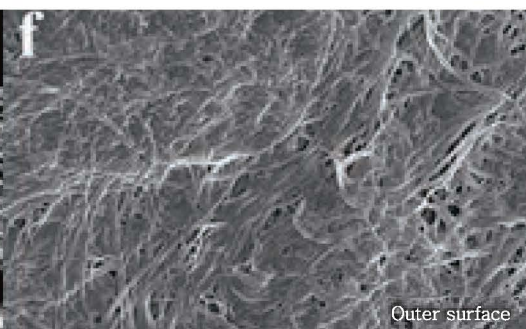
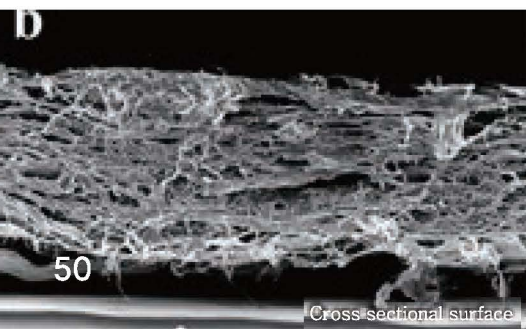
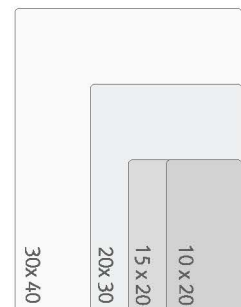
- Ensured biodegradation period through application of CE certified quality management standard
- Colla can stand in the body for at least 4 months



- Excellent space maintenance in bone defect
- Reliable bone regeneration effect with perfect prevention of soft tissue penetration

### Specifications

Source	Type	Feature	Size
Bovine	Soft	<ul style="list-style-type: none"> <li>• Excellent adhesion</li> <li>• Handling facilitated</li> </ul>	10 X 20 mm
			15 X 20 mm
			20 X 30 mm
			30 X 40 mm
	Hard	<ul style="list-style-type: none"> <li>• Multilayer Structure</li> <li>• Excellent Tension</li> </ul>	10 X 20 mm
			15 X 20 mm
			20 X 30 mm
			20 X 30 mm
			30 X 40 mm





# 3D DIAGNOSIS IS MORE ACCESSIBLE THAN EVER WITH A SMART AND COMPACT SOLUTION



DIO PRODUCTS  
ACTEON CBCT



ACTEON

INNOVATIVE  
IMAGING

**X-MIND® PRIME**  
is a smart solution, providing high-technology capabilities and simplicity of use.

**This ingenious unit** offers all essential diagnostic tools in an accessible product.



WINDOWS®  
COMPATIBLE

TWAIN®  
COMPATIBLE

DICOM  
COMPATIBLE

EXPORTS  
TO  
STL FORMAT

# OPTIMIZE THE SPACE WITHIN YOUR PRACTICE

## INTELLIGENT WALL MOUNTED SOLUTION

Compactness is key. X-Mind<sup>®</sup> Prime is a space-saving device: with its smart wall-mounted system, it will never get in your way.

Its exceptional light weight (only 62kg for the 2D configuration) and its reduced size makes X-Mind<sup>®</sup> Prime adaptable. It will fit the narrowest space.

With zero footprint, X-Mind<sup>®</sup> prime will not reduce precious workspace within your practice.

56

2D and 3D exams to cover all your clinical applications

1 Minute

to edit your implant report with the intuitive AIS software

1 to 1

Face-to-face patient positioning

0

Footprint space with the innovative wall mounted system

100%

Mac<sup>®</sup> and Windows<sup>®</sup> compatible with AIS software



UNMATCHED  
SPEED  
OF INSTALLATION



# SOLUTIONS FOR ANY PRACTICE

CHOOSE THE UNIT THAT WILL FIT YOUR CLINICAL NEEDS

- ▶ X-Mind<sup>®</sup> prime pan: Panoramic solution only
- ▶ X-Mind<sup>®</sup> prime pan 3D: CBCT solution providing both panoramic and 3D exams



X-Mind<sup>®</sup> prime Pan



X-Mind<sup>®</sup> prime Pan 3D

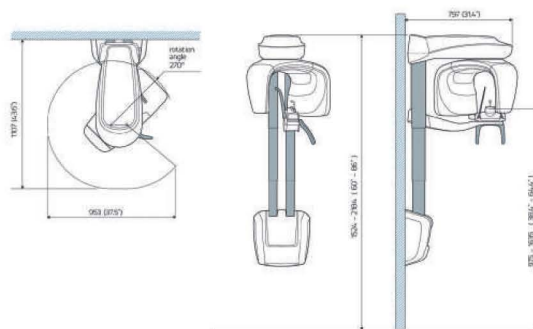
Also available in standing mount. ● : available option

Pan	●	●
3D	○	●

"Clinical trainers" are available to show you the clinical aspects and patient benefits of ACTEON® products and train you on how to use them.

Free, ongoing and unlimited service can be reached Monday to Friday, from 09:00 to 18:00.

ACTEON® can also analyse and troubleshoot remotely, and specialist technicians can provide on-site service as quickly as possible.



## TECHNICAL SPECIFICATIONS

X MIND prime	X-Mind® prime 2D	X-Mind® prime 3D
	<b>X-RAY SOURCES</b>	
<b>Tube type</b>	D-058 (Toshiba)	OPX 105-12 (CEI)
<b>Total filtration</b>	2.0 mm Al eq. @ 70kVp	≥ 2.5 mm Al eq. @ 86 kVp
<b>Tube voltage</b>	60 - 70 kV	60 - 86 kV
<b>Anodic current</b>	2-7.1 mA	2-12.5 mA
<b>Focal spot</b>	0.5 mm	0.5 mm
<b>SENSOR</b>		
<b>Type</b>	CCD	CMOS Flat panel
<b>Voxel size</b>	n.a.	Minimum 87.5 µm
<b>ACQUISITION</b>		
<b>PAN Programs</b>	Panoramic (adult/child) - TMJ open/closed mouth in lateral projection - Maxillary sinuses (P-A) - Half panoramic (left/right) - Low dose panoramic - Frontal dentition - Ortho Rad Panoramic - Bitewing (left/right/double)	
<b>3D programs</b>	n.a.	Full dentition (85 x 93 mm)* - Single jaw (85 x 50 mm)* - Mandibular teeth (50 x 50 mm) - Maxillary teeth (50 x 50 mm) - TMJ (85 x 93 mm)* - Sinus (85 x 93 mm)*
<b>Exposure time</b>	up to 14,4 s.	from 16 s. (full dentition)
<b>Grey levels</b>	4096 - 12 bits	65536 - 16 bits
<b>MECHANICAL DATAS</b>		
<b>Footprint</b>	1107 x 953 mm	1107 x 953 mm
<b>Height</b>	Max 2190 mm	Max 2190 mm
<b>Weight</b>	Max 62 kgs	Max 67 kgs

\* Not available in Canada, where these volumes are limited to 80 x 80 mm or 80 x 50 mm.

	<b>WORKSTATION MINIMUM REQUIREMENTS</b>		
	<b>PAN/CEPH WINDOWS (WORKSTATION)</b>	<b>CLIENT WINDOWS</b>	<b>CLIENT MAC OS</b>
<b>Processor</b>	Intel i5	Intel i5	Quadcore 2.6 GHz
<b>Hard Disk</b>	1TB 7200 rpm	300 GB	300 GB
<b>RAM</b>	8 GB	4 GB or 8 GB (for big FOV DICOM stacks)	4 GB or 8 GB (for big FOV DICOM stacks)
<b>Graphics card</b>	OPEN GL 2.1 compatible (suggested an NVIDIA GT/GTX)	Nvidia Geforce or Nvidia Quadro with 1 GB dedicated RAM	Nvidia Geforce or Nvidia Quadro with 1 GB dedicated RAM
<b>Screen resolution</b>	1600 x 1024	1600 x 1024	1600 x 1024
<b>Network card</b>	INTEL CT 1000 pro	100 Mb for PAN/CEPH 1 Gb for CBCT	100 Mb for PAN/CEPH 1 Gb for CBCT
<b>Operating system</b>	Windows 7 Professional 64 bits	Windows 7 64 bits	OS X Sierra (10.12)

# IMPLANT Air

PRECISE

RELIABLE

SIMPLE

## UTMOST QUALITY ULTIMATE EXPERIENCE

### SPECIFICATIONS

- Torque range: 5Ncm to 80Ncm (20:1)
- Dimensions: Length 6.1 inch (155mm), width 6.5 inch (167mm), height 8.9 inch (227mm)
- LCD screen: 5 inch colour touchscreen
- Max water volume: 135ml/minute
- Motor: Swiss-made, producing 80Ncm torque
- Handpiece: LED 20:1 handpiece with German bearings for stability and durability

### FEATURES

- Continuous torque output
- Automatic calibration
- Compact design
- User-friendly interface
- Ultra-quiet peristaltic pump
- Multi-function foot pedal





Auto torque calibration before each startup

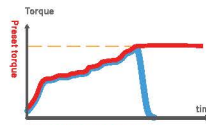
Calibrating...

**AUTOMATIC CALIBRATION  
CONVENIENT AND ACCURATE**

Implant Air features torque startup automatic calibration (TSAC), which ensures that the device calibrates itself for accuracy every time it is turned on, eliminating additional manual operation. Used with Swiss motor, it delivers more precise and easier output.

**CONTINUOUS TORQUE OUTPUT  
PRECISE AND RELIABLE**

The torque is displayed in real time. Plus, once the output torque reaches the preset value during implantation, the torque output will continue with the preset value, ensuring that the implant placement torque reaches the preset target with higher accuracy.



Torque output maintained

Torque output unmaintained

When the torque reaches the preset value, it will continue to output without automatic stop, avoiding insufficient torque output.

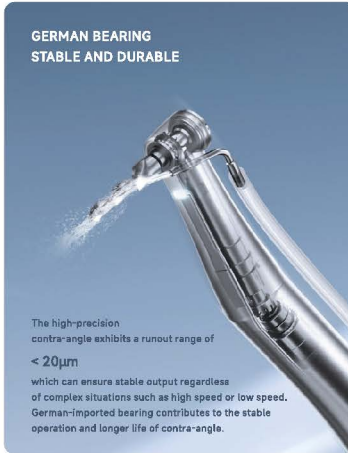


**PEAK VALUE DISPLAY  
VISUAL AND EASY**

In the implantation procedure, the user interface enables real-time display of peak output torque of each operation, which is convenient for doctors to judge the highest torque of the current operation, confirm the implant initial stability, and reduce redundant steps.



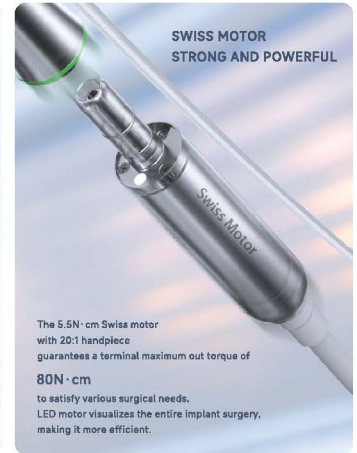
DTE Implant Air



**GERMAN BEARING  
STABLE AND DURABLE**

The high-precision contra-angle exhibits a runout range of <math>< 20\mu\text{m}</math>

which can ensure stable output regardless of complex situations such as high speed or low speed. German-imported bearing contributes to the stable operation and longer life of contra-angle.



**SWISS MOTOR  
STRONG AND POWERFUL**

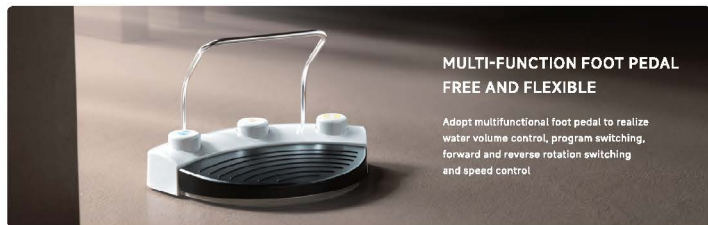
The 5.5N-cm Swiss motor with 20:1 handpiece guarantees a terminal maximum out torque of 80N-cm

to satisfy various surgical needs. LED motor visualizes the entire implant surgery, making it more efficient.



**ULTRA-QUIET PERISTALTIC PUMP  
HANDY TO USE**

Waterproof design pump head effectively prevents the occurrence of circuit board burnout. Ultra-quiet peristaltic pump water supply system, easy to connect. Adaptable to disposable oral water pipe to prevent cross-infection.



**MULTI-FUNCTION FOOT PEDAL  
FREE AND FLEXIBLE**

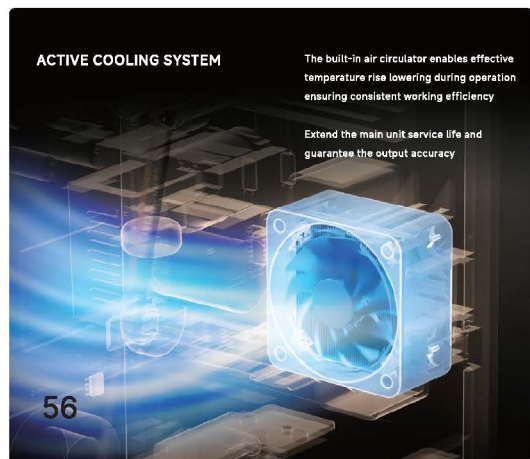
Adopt multifunctional foot pedal to realize water volume control, program switching, forward and reverse rotation switching and speed control.



**COMPACT DESIGN  
SIMPLIFIED INTERFACE**

Vertical body, compact design, more space-saving. 5-inch LCD color touch screen, 5 preset programs, automatic saving of parameters after each operation. More simplified operation, bringing a convenient and comfortable user experience.

Length 155mm Width 167mm Height 227mm



**ACTIVE COOLING SYSTEM**

The built-in air circulator enables effective temperature rise lowering during operation ensuring consistent working efficiency.

Extend the main unit service life and guarantee the output accuracy.

56



**COMFORTABLE HOLDING  
FATIGUE-FREE**

Ergonomically-designed contra-angle to prevent fatigue during work. Reasonable weight match with the motor to ensure a balanced grip.

**FULL-FEATURED**

Compatible with all E-type interface handpieces and multiple speed ratios, to fit different surgical needs. 16:1 20:1 27:1 1:1 1:2 1:2.7 1:3 1:4 2 1:5



# Dental Treatment Unit

Care You Can Feel. Innovation You Can Trust.

**Discover Excellence in Dentistry with the ADNAR Dental Chair – Presented by DIO Digital Implant India Pvt. Ltd.**

Proudly crafted in India, the ADNAR Dental Chair represents the perfect fusion of cutting-edge innovation and ergonomic comfort. Presented by DIO Digital Implant India Pvt. Ltd., this advanced dental chair is engineered to meet the highest standards of modern clinical practice—ensuring superior comfort for both patients and practitioners.

Designed with precision, the ADNAR Dental Chair features state-of-the-art technology, intuitive controls, and an ergonomic build that enhances both efficiency and ease of use. Despite its premium features, it remains more cost-effective than other high-end dental chairs—offering exceptional value without compromising on quality.

*ADNAR Dental Chair — Where Innovation Meets Indian Craftsmanship.*

**Elevate your clinic. Choose ADNAR**



# ADNAR Prime

The chair in a hanging hose detent element configuration with push button control. It has double armrest, advanced foot control, 8 bulb LED operating light and an in- built water heater. The chair comes with our standard PU- Polyurethane Upholstery.



### Multifunctional Dentist Element:

1. 9 memory positions (set as 3 doctors with 3 presets)
2. In addition to the 9 positions the chair has:
  - a) spitting position (light will automatically turn off if it is on, and flushing water will turn on automatically),
  - b) emergency position,
  - c) return to the last position
3. Unit-Chair interlock: During treatment, all movements of the chair are locked to prevent accidental touch.
4. Airtor and 3-way syringe water heating on/off button is conveniently placed on the dentist element.
5. Sterilizable removable silicone mat for the instrument.



8 Bulb LED  
Operating Light



Detachable  
Rotary Spittoon



Low Voltage Heater



Assistant Control



3 in 1 Holder



Advance Foot Pedal

## ADNAR Progress

The chair comes in a hanging hose dentist element configuration with touch button control. It has a 12-bulb LED operating light, stainless steel instrument tray, automatic disinfection system, wireless phone charger, hidden face mirror, and an in-built water heater. The chair comes with floor-type water unit and has a soft, seamless leather upholstery.

## ADNAR Pinnacle

The chair comes in a hanging hose dentist element configuration with a 12.3" touchscreen for controlling the chair positions, micromotor and scaler settings and record reports. It has a 12-bulb LED operating light, stainless steel instrument tray, automatic disinfection system, wireless phone charger, hidden face mirror, water steriliser for tap water and an inbuilt water heater. The chair comes with a floor-type water unit and has soft, seamless leather upholstery.



Wireless charging



12 Bulb LED Operating Light



Faro EDI LED Light (Optional)



HH Dentist Control



HH Dentist Control



Assistant Control



Floor Mount Water Unit



Water Sterilizer (Optional)



Soft Movement Synchronized



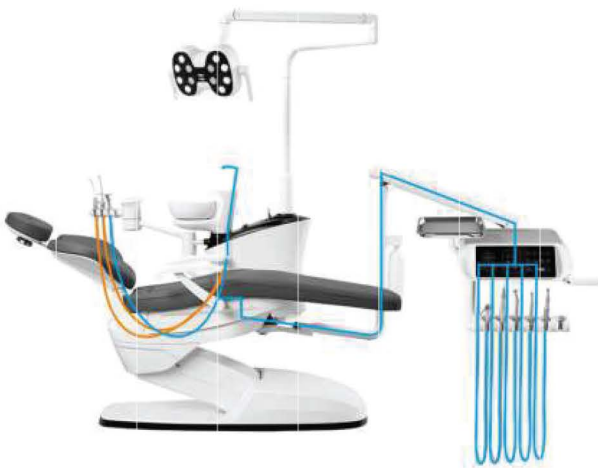
Monitor with Arm (Optional)

# ONE-CLICK INTELLIGENT DISINFECTION

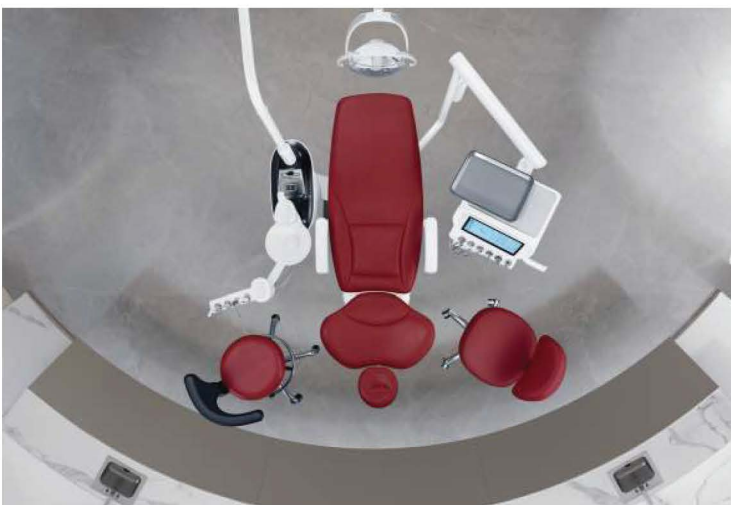
Available in ADNAR Progress and Pinnacle

## Digital automatic waterway disinfection system

- **Fully inclusive:** covers all water pipelines for diagnosis and treatment to ensure comprehensive disinfection.
- **Fully automatic:** one-click fully automatic disinfection, no need for on-duty, efficient and worry-free.
- **Fully intelligent:** visualize the disinfection process and status, accurately control, optimize the process.
- **Full record:** disinfection records can be viewed, saved up to 5 years, exported, and deleted.
- **Fully up to standard:** meets the national requirements for dental unit pipelines and treatment water.



## COMFORTABLE EXPERIENCE FOR DENTISTS AND PATIENTS



## D:O Training | DIO Digital Academy (DDA)

DDA Standard Course offers the basic, essential and practical knowledge necessary to start digital workflow-based implant treatment using digitally planned surgical guides. This course is designed to educate dentists and clinical staff to successfully implement surgical guides into their practice.



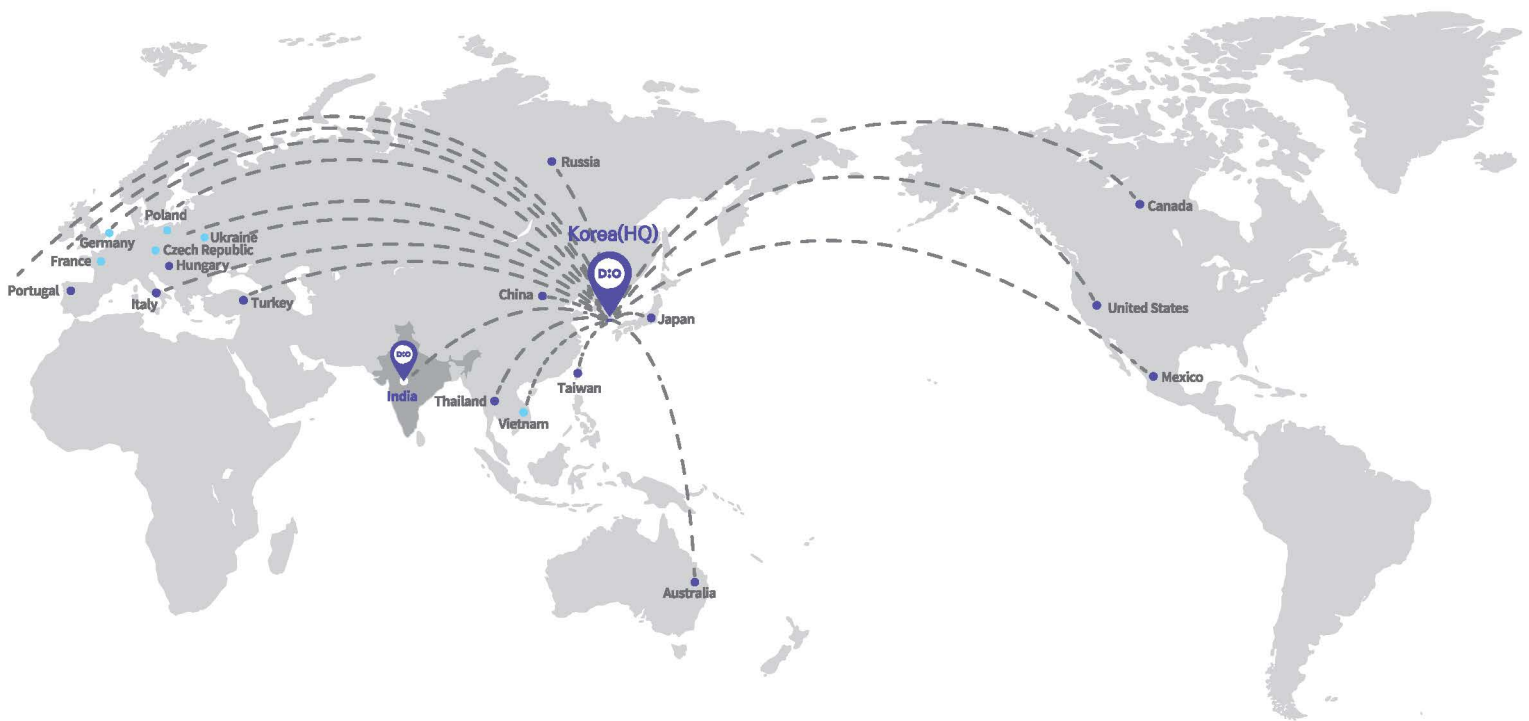
## D:O Training | DIO Implant Academy (DIA)

This course is aimed at general dental practitioners who wish to provide implant dentistry in their practices, also who want to learn best practice techniques to achieve superior aesthetic result in implant treatments.



## Global Network

- Existing branch
- New branches to be opened



## Indian Network

- DIO Presence
-  Branch Offices



# Beyond implant, Dental Solution Creator



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