

# UFII SYSTEM

Products Guide Ver.4\_E

UFII Narrow System

UFII Regular System

UFII Wide System

**DIO** IMPLANT



Make your life more abundant,  
Make your tomorrow more happier

DIO is leading the digital dentistry with various digital solutions and original implant products.



## UF II System Products Guide Ver.4\_E

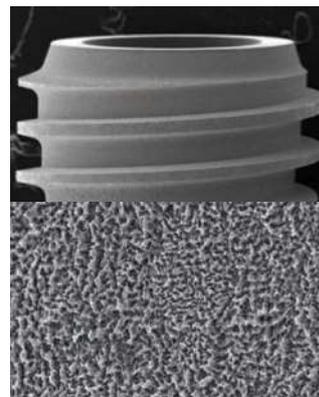
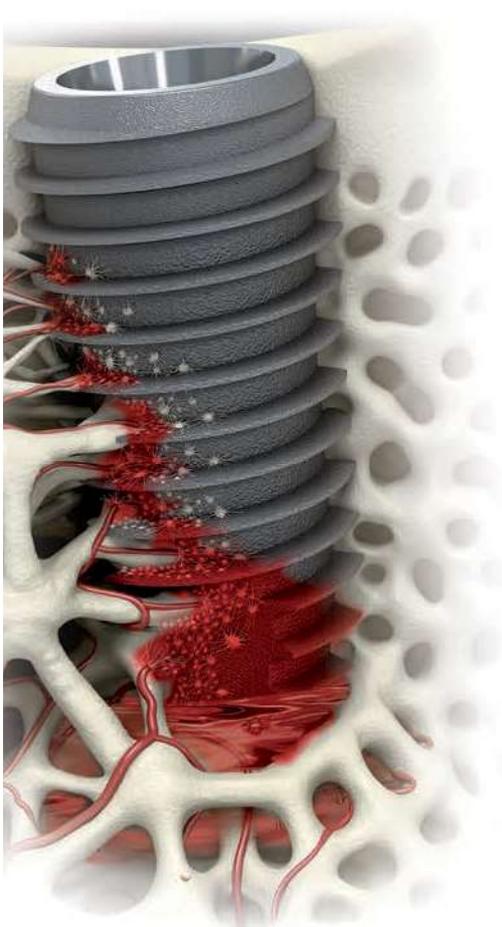
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# UFII Internal Submerged System

# Implant Surface Treatment Feature

## HSA Hybrid SLA (Sand blast with Large grit and Acid etching)

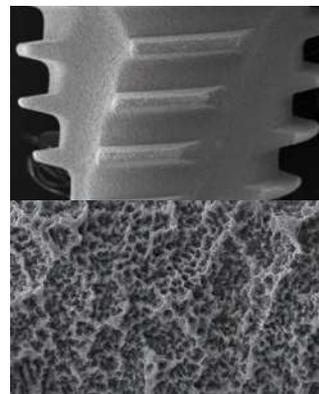
Embodiment of optimal morphology and roughness with excellent osseointegration performance



**Upper /  
Micro  
Surface**

*Ra : 0.5~1.0 $\mu$ m*  
**Minimize  
Peri-Implantitis**

- Low surface roughness reduces adhesion and proliferation of bacteria and minimizes peri-implantitis.
- Friction in the cortical bone is minimized and concern for bone heating is reduced.



**Body /  
Macro+  
Micro Surface**

*Ra : 1.5~3.5 $\mu$ m*  
*(Management standard  
1.5~2.5 $\mu$ m)*  
**Stimulate  
Osseointegration**

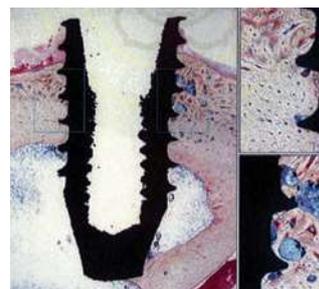
- Fast osseointegration and long-term stability are provided.

### Latest surface treatment technology to enhance osseointegration of titanium implant

Associate Professor Ho-Jun Song, Dental Materials Lab,  
Graduate School of Dental Medicine, Chonnam National University

Titanium oxide films are classified into TiO, TiO<sub>3</sub> and TiO<sub>2</sub> based on the amount of oxygen bonded. TiO<sub>2</sub> is known as the most stable phase. Roughness on micro level of 1~10 $\mu$ m has been reported<sup>1)</sup> to provide fast osseointegration response by increasing adhesiveness of osteoblast, facilitating differentiation, and increasing formation and mineralization of extracellular matrix (ECM). In addition, rough surface largely increases binding force between mineralized bone and implant surface. Based on theoretical approach to ideal roughness, Hassen et al.<sup>2)</sup> reported that a hemispherical pit with 1.5 $\mu$ m depth and 3~5 $\mu$ m diameter is optimal.

- 1) Abron A, Hopfensperger M, Thompson J, Cooper LF. Evaluation of a predictive model for implant surface topography effects on early osseointegration in the rat tibia model. J Prosthet Dent 2001;85:40-6.
- 2) Hansson S, Norton M. The relation between surface roughness and interfacial shear strength for bone-anchored implant. A mathematical model. Journal of Biomechanics 1999;32(8):829-836.



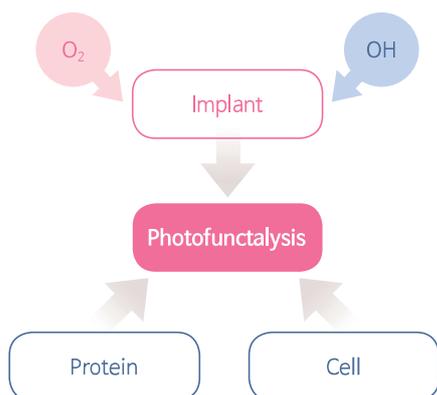
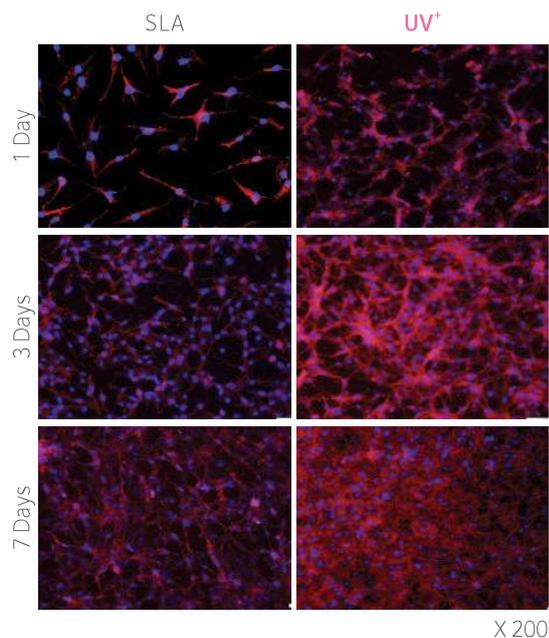
Animal  
experimentation  
result  
**BIC : 75.9%**

Kyungpook National University  
Institute for biomaterials research and development  
Animal test : Rabbit Tibia : 12weeks

## UV<sup>+</sup> Photofunctionalized HSA

Superhydrophobic surface using photofunctionalysis

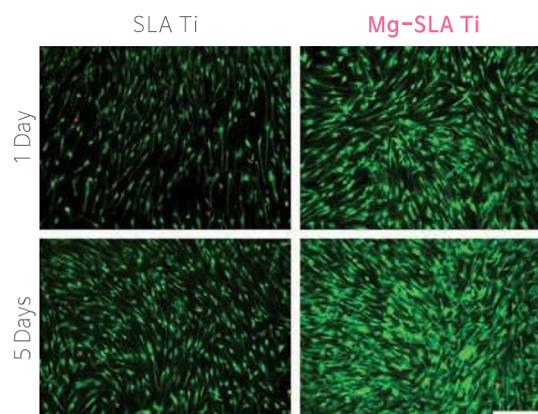
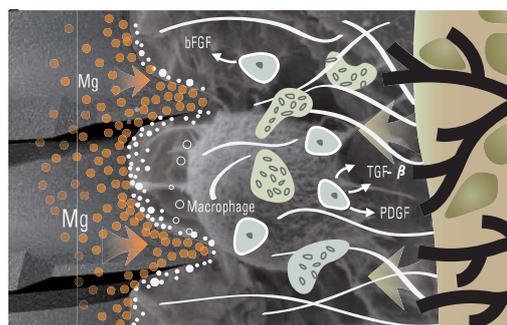
- Biological aging phenomenon in which surface of implant is contaminated by hydrocarbon and organic matter to disrupt osseointegration is resolved by photofunctionalysis, which makes the surface clean without contaminants.
- Oxygen concentration of TiO<sub>2</sub> increases on the surface. Cells and proteins actively react with oxygen due to superhydrophobic effect of OH radical, thus increasing the rate of osseointegration.



## Mg<sup>+</sup> HSA & Mg Plasma

Strong bioactivation mechanism

- Mg<sup>2+</sup> ions move to the implant surface, or Mg<sup>2+</sup> ions move through ion-exchange reaction with Ca<sup>2+</sup> ions in the body fluid.
- Movement of Mg<sup>2+</sup> ions to the implant surface acts as an important driving force of chemical bonding with bones. The implant surface is chemically bonded with bone growth proteins with polarity such as Collagen Type 1, Thrombospondin, Fibronectin, Vitronectin, Osteocalcin, Osteonectin and BAG-75.
- Chemical bonding of bone morphogenic proteins (BMPs) on the implant surface triggers and facilitates osseointegration around implant.



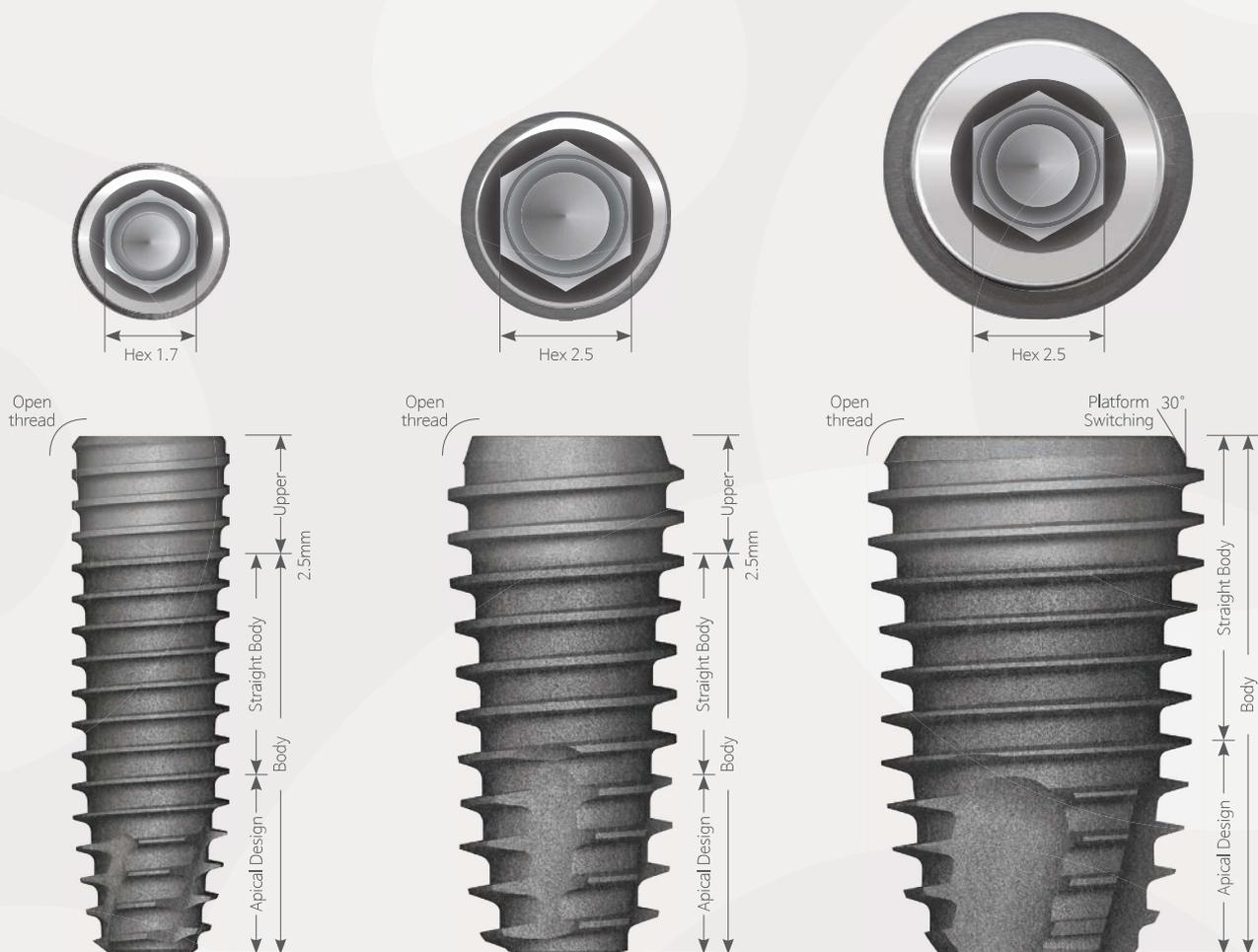
Live/dead fluorescence imaging of human mesenchymal stem cells (hMSCs) cultured on sandblasting and acid etching (SLA)-treated titanium (SLA Ti) and Mg ion-implanted SLA Ti (Mg-SLA Ti) specimens in normal growth media. The viability/cytotoxicity assay was performed after 1 day and 5 days of culture. Live cells were stained green by calcein acetoxyethyl (calcein AM) and dead cells were stained red by ethidium homodimer-1 (EthD-1). The size bar represents 500 μm.

# UFII Int. Submerged System

## UFII Narrow

## UFII Regular

## UFII Wide



### Upper Thread

A taper thread is applied to straight body, effectively dispersing stress at the top of implant. Threads have higher depth in the apical portion and then decreases gradually into the platform. This design improves blood supply and lessens the empty space in cortical bone to reduce time of bone formation.

### Straight Body

The longer the implant length, the longer the straight body. Therefore, long implant can be placed stably without arousing sudden changes during surgery as in straight type implant.

### Morse Tapered Connection 11°

Perfect connection of abutment and fixture is guaranteed. Impact on the fixture is reduced and bone loss is minimized.

### Open Thread

During placement of the fixture, it can be placed deep without additional drilling by minimizing resistance.

### Cutting Edge

Self-tapping is maximized by sharp edge.

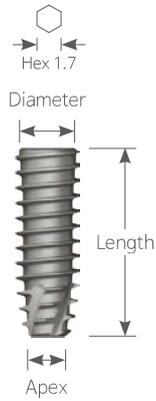
## UFII Narrow

D Ø3.0 · Ø3.3

L 8.5 · 10 · 11.5 · 13 · 15

HSA

UV Active



## UFII Regular

D Ø3.8 · Ø4.0 · Ø4.5 · Ø5.0 · Ø5.5

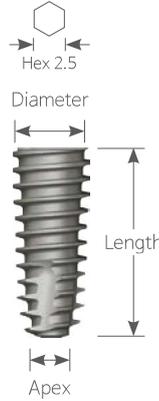
L 7 · 8.5 · 10 · 11.5 · 13 · 15 · 16 · 18

HSA

UV Active

Mg+

※Korea only

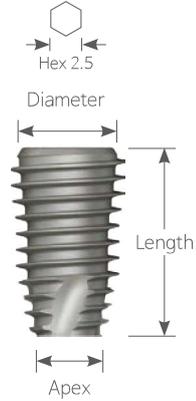


## UFII Wide

D Ø6.0 · Ø6.5 · Ø7.0

L 7 · 8.5 · 10 · 11.5 · 13 · 15

HSA



## Narrow Fixture

▶ Ø3.0 fixture exclusive for anterior teeth

· Packing Unit : Fixture

**N** D Ø3.0 Hex 1.7 Apex Ø1.6

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	UF(II)N 3015UV3

**N** D Ø3.3 Hex 1.7 Apex Ø1.9

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	UF(II)N 3315UV3

# Regular Fixture

· Packing Unit : Fixture

## **R D Ø3.8** Hex 2.5 Apex Ø2.9

Unit:mm | Scale 1 : 1.2

Length	7	8.5	10	11.5	13	15	16	18
								
HSA	-	UF(II) 3808S	UF(II) 3810S	UF(II) 3811S	UF(II) 3813S	UF(II) 3815S	UF(II) 3816S	UF(II) 3818S
Mg <sup>+</sup>	-	UF(II) 3808MG	UF(II) 3810MG	UF(II) 3811MG	UF(II) 3813MG	UF(II) 3815MG	UF(II) 3816MG	UF(II) 3818MG
UV <sup>+</sup>	-	UF(II) 3808UV	UF(II) 3810UV	UF(II) 3811UV	UF(II) 3813UV	UF(II) 3815UV	UF(II) 3816UV	UF(II) 3818UV

## **R D Ø4.0** Hex 2.5 Apex Ø2.9

Length	7	8.5	10	11.5	13	15	16	18
								
HSA	-	UF(II) 4008S	UF(II) 4010S	UF(II) 4011S	UF(II) 4013S	UF(II) 4015S	UF(II) 4016S	UF(II) 4018S
Mg <sup>+</sup>	-	UF(II) 4008MG	UF(II) 4010MG	UF(II) 4011MG	UF(II) 4013MG	UF(II) 4015MG	UF(II) 4016MG	UF(II) 4018MG
UV <sup>+</sup>	-	UF(II) 4008UV	UF(II) 4010UV	UF(II) 4011UV	UF(II) 4013UV	UF(II) 4015UV	UF(II) 4016UV	UF(II) 4018UV

## **R D Ø4.5** Hex 2.5 Apex Ø3.4

Length	7	8.5	10	11.5	13	15	16	18
								
HSA	UF(II) 4507S	UF(II) 4508S	UF(II) 4510S	UF(II) 4511S	UF(II) 4513S	UF(II) 4515S	UF(II) 4516S	UF(II) 4518S
Mg <sup>+</sup>	UF(II) 4507MG	UF(II) 4508MG	UF(II) 4510MG	UF(II) 4511MG	UF(II) 4513MG	UF(II) 4515MG	UF(II) 4516MG	UF(II) 4518MG
UV <sup>+</sup>	UF(II) 4507UV	UF(II) 4508UV	UF(II) 4510UV	UF(II) 4511UV	UF(II) 4513UV	UF(II) 4515UV	UF(II) 4516UV	UF(II) 4518UV

## **R D Ø5.0** Hex 2.5 Apex Ø3.9

Length	7	8.5	10	11.5	13	15	16	18
								
HSA	UF(II) 5007S	UF(II) 5008S	UF(II) 5010S	UF(II) 5011S	UF(II) 5013S	UF(II) 5015S	UF(II) 5016S	UF(II) 5018S
Mg <sup>+</sup>	UF(II) 5007MG	UF(II) 5008MG	UF(II) 5010MG	UF(II) 5011MG	UF(II) 5013MG	UF(II) 5015MG	UF(II) 5016MG	UF(II) 5018MG
UV <sup>+</sup>	UF(II) 5007UV	UF(II) 5008UV	UF(II) 5010UV	UF(II) 5011UV	UF(II) 5013UV	UF(II) 5015UV	UF(II) 5016UV	UF(II) 5018UV

**R D Ø5.5** Hex 2.5 Apex Ø4.5

Length	7	8.5	10	11.5	13	15	16	18
								

- |                 |  |               |               |               |               |               |               |               |               |
|-----------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| HSA             |  | UF(II) 5507S  | UF(II) 5508S  | UF(II) 5510S  | UF(II) 5511S  | UF(II) 5513S  | UF(II) 5515S  | UF(II) 5516S  | UF(II) 5518S  |
| Mg <sup>+</sup> |  | UF(II) 5507MG | UF(II) 5508MG | UF(II) 5510MG | UF(II) 5511MG | UF(II) 5513MG | UF(II) 5515MG | UF(II) 5516MG | UF(II) 5518MG |
| UV <sup>+</sup> |  | UF(II) 5507UV | UF(II) 5508UV | UF(II) 5510UV | UF(II) 5511UV | UF(II) 5513UV | UF(II) 5515UV | UF(II) 5516UV | UF(II) 5518UV |

## Wide Fixture

· Packing Unit : Fixture

**W D Ø6.0** Hex 2.5 Apex Ø5.4

Unit mm | Scale 1:1.2

Length	7	8.5	10	11.5	13	15
						

- |                 |  |               |               |               |               |               |               |
|-----------------|--|---------------|---------------|---------------|---------------|---------------|---------------|
| HSA             |  | UF(II) 6007S  | UF(II) 6008S  | UF(II) 6010S  | UF(II) 6011S  | UF(II) 6013S  | UF(II) 6015S  |
| UV <sup>+</sup> |  | UF(II) 6007UV | UF(II) 6008UV | UF(II) 6010UV | UF(II) 6011UV | UF(II) 6013UV | UF(II) 6015UV |

**W D Ø6.5** Hex 2.5 Apex Ø5.9

Length	7	8.5	10	11.5	13	15
						

- |                 |  |               |               |               |               |               |               |
|-----------------|--|---------------|---------------|---------------|---------------|---------------|---------------|
| HSA             |  | UF(II) 6507S  | UF(II) 6508S  | UF(II) 6510S  | UF(II) 6511S  | UF(II) 6513S  | UF(II) 6515S  |
| UV <sup>+</sup> |  | UF(II) 6507UV | UF(II) 6508UV | UF(II) 6510UV | UF(II) 6511UV | UF(II) 6513UV | UF(II) 6515UV |

**W D Ø7.0** Hex 2.5 Apex Ø6.4

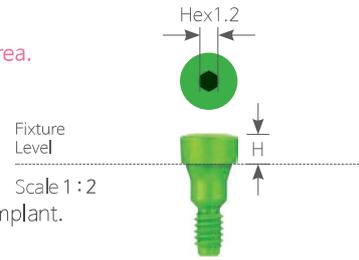
Length	7	8.5	10	11.5	13	15
						

- |                 |  |               |               |               |               |               |               |
|-----------------|--|---------------|---------------|---------------|---------------|---------------|---------------|
| HSA             |  | UF(II) 7007S  | UF(II) 7008S  | UF(II) 7010S  | UF(II) 7011S  | UF(II) 7013S  | UF(II) 7015S  |
| UV <sup>+</sup> |  | UF(II) 7007UV | UF(II) 7008UV | UF(II) 7010UV | UF(II) 7011UV | UF(II) 7013UV | UF(II) 7015UV |

# Cover Screw

- ▶ Used for narrow area after the Implant surgery or to protect Implant connection area.
- ▶ Dental Implant cover screw is implanted into the top which helps to prevent tissue and bone to grow inside the implant.

- Uses 1.2 Hex Driver
- Method of use
  - ① Screw installation after removing the remaining blood or foreign substance in Implant.
  - ② Connect the screw using 1.2 hex driver and hand-tighten (5~8Ncm)
  - ③ Remove the screw if cold-welding occurs between the screw and implant.
- Tightening Torque : 5~8Ncm



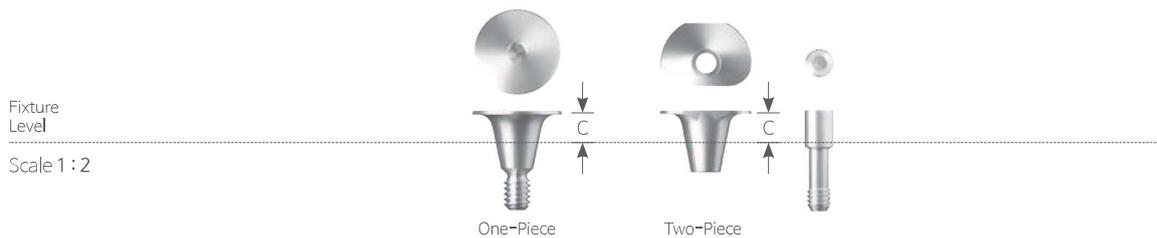
**N R W** Hex 1.2

Unit:mm | Scale 1 : 1.25

Fixture Size	Narrow	Regular · Wide	
			
Height 0	UNSCS 2700	SSCS 3400	-
1	UNSCS 2710	-	SSCS 3410
2	UNSCS 2720	-	SSCS 3420
3	UNSCS 2730	-	SSCS 3430

# Bone Forming Cover Screw

- ▶ the Bone Forming Cover Screw is then used to cover the bongraft to protect it from your tongue and saliva.
- ▶ Make a buccal incision (instead of a midcrestal incision) for better access to keratinized mucosa.
- The concave transmucosal profile make soft tissue can be thicker and more stable.
- 2-piece type can be used depending on implant placement and distance from adjacent teeth.



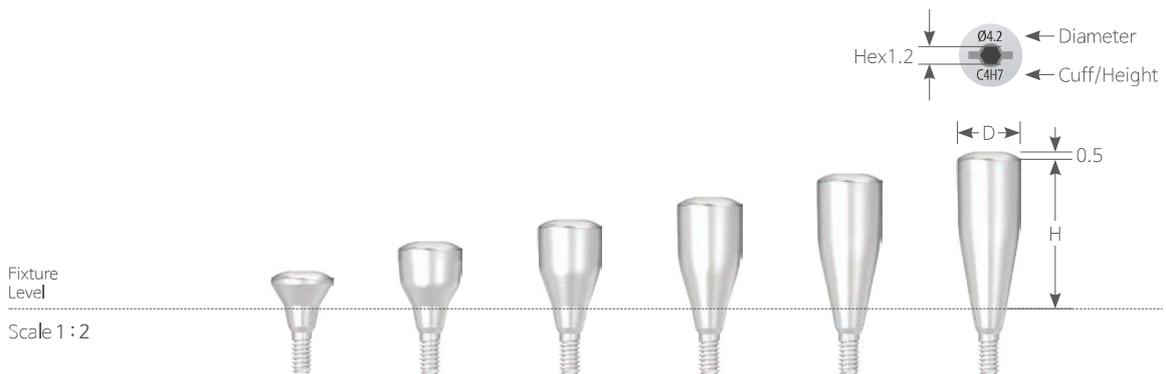
**R**

Unit:mm | Scale 1 : 1.25

Fixture Size	Regular			
Type	One - Piece		Two - Piece	
				
Cuff 1.5	BFC 6565S	BFC 8080S	BFC 7060S	BFC 8055S
3	BFC 6565L	BFC 8080L	BFC 7060L	BFC 8055L

# Healing Abutment

- Uses 1.2 Hex Driver
- Uses 0.5 Slot Driver
- Tightening Torque : 5~8Ncm

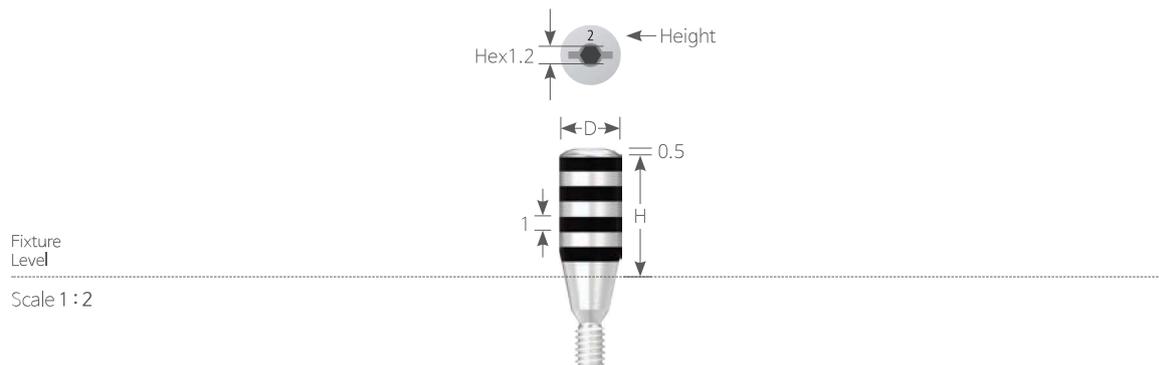


**N** Hex 1.2 Unit:mm | Scale 1 : 1.25

Fixture Size	Narrow			
	Ø4.1	Ø4.2	Ø4.6	Ø4.7
Height 2	UNSHA 4020	-	UNSHA 4520	-
4	-	UNSHA 4024	-	UNSHA 4524
5	-	UNSHA 4035	-	UNSHA 4535
7	-	UNSHA 4047	-	UNSHA 4547
8.5	-	UNSHA 4058	-	UNSHA 4558
10	-	UNSHA 4060	-	UNSHA 4560

# Healing Abutment

- ▶ Used for small diameter abutment like Ball abutment
- ▶ Used if the fixture is deeply placed
- Uses 1.2 Hex Driver
- Uses 0.5 Slot Driver
- Tightening Torque : 5~8Ncm



**R W D** Ø4.0 Hex 1.2

Unit:mm | Scale 1 : 1.25

Fixture Size	Regular · Wide			
Height	2	4	6	8



SSHA 4020



SSHA 4040

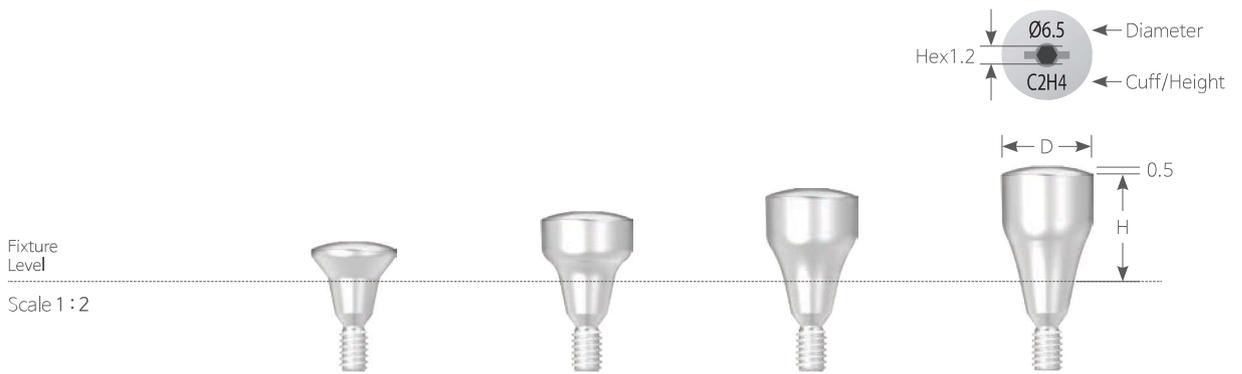


SSHA 4060



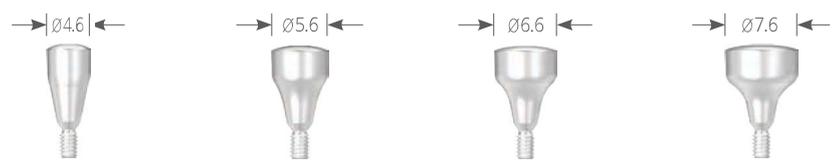
SSHA 4080

- Uses 1.2 Hex Driver
- Uses 0.5 Slot Driver
- Tightening Torque : 5~8Ncm



**R W** Hex 1.2 Unit mm | Scale 1 : 1.25

Fixture Size **Regular · Wide**



Height 2	SSHA <b>4520</b>	SSHA <b>5520</b>	SSHA <b>6520</b>	SSHA <b>7520</b>
4	SSHA <b>4524</b>	SSHA <b>5524</b>	SSHA <b>6524</b>	SSHA <b>7524</b>
5.5	SSHA <b>4535</b>	SSHA <b>5535</b>	SSHA <b>6535</b>	SSHA <b>7535</b>
7	SSHA <b>4547</b>	SSHA <b>5547</b>	SSHA <b>6547</b>	SSHA <b>7547</b>

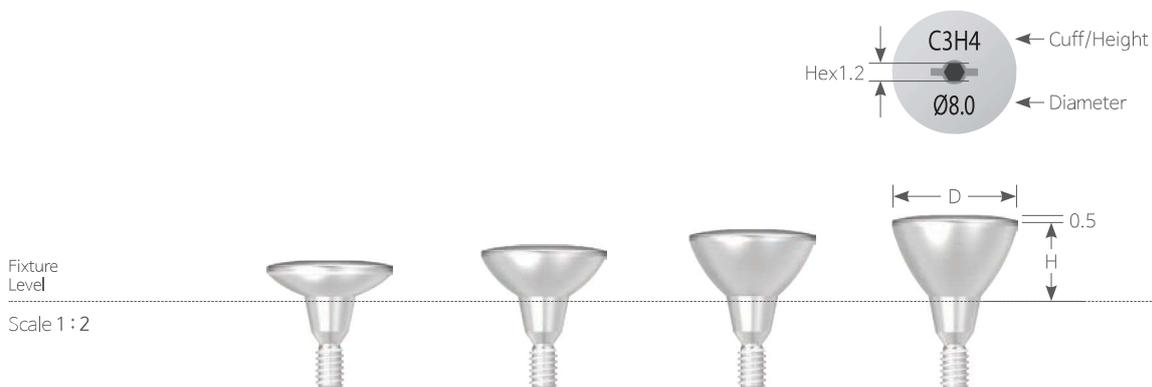
# Healing Abutment

- ▶ The healing abutments are designed to help gum tissue around the implant site heal faster.
- ▶ Used for making designated shape of gingiva.

· Caution

- ① Connect the screw using 1.2 hex driver and hand-tighten (5~8Ncm)
- ② Organized by diameter and height, the healing abutments can be selected according to the needs and requirements of a particular clinical case.
  - Use larger healing abutment than an abutment in order to maintain balance between the gum and final prosthesis without gum interference while abutment is being settled.
  - ※ When connecting the cover screw and healing abutment, the screw can be separated easily by applying antibiotics functioning as lubricant. (Antibiotics: Minocline, Periocline, etc.)

- Uses 1.2 Hex Driver
- Uses 0.5 Slot Driver
- Tightening Torque : 5~8Ncm



**R W** Hex 1.2 Unit mm | Scale 1 : 1.25

Fixture Size **Regular · Wide**

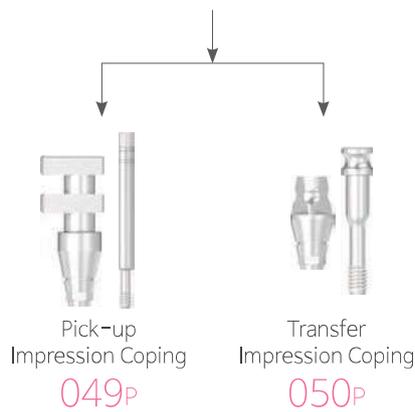
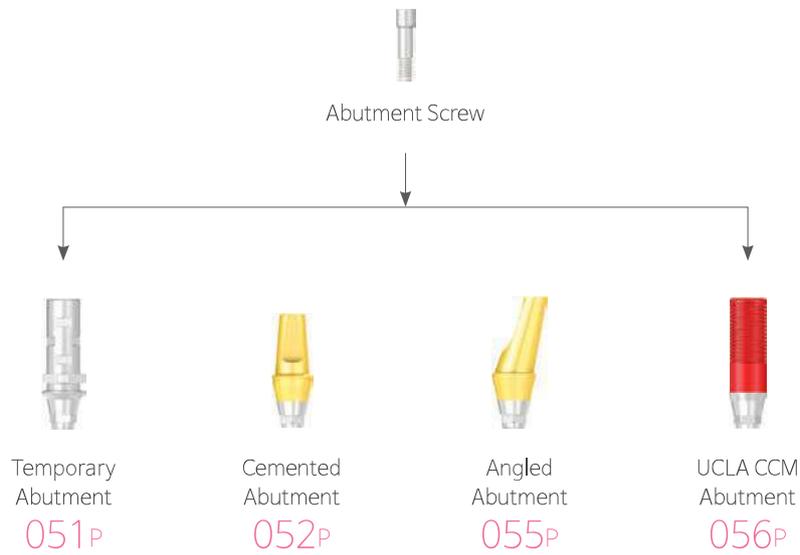


Height 2	SSHA <b>8212</b>	SSHA <b>9212</b>
3	SSHA <b>8223</b>	SSHA <b>9223</b>
4	SSHA <b>8234</b>	SSHA <b>9234</b>
5	SSHA <b>8245</b>	SSHA <b>9245</b>

# Cement / Screw – Retained Restorations

Temporary / Cemented / Angled / UCLA Abutment

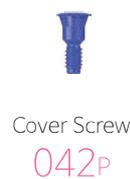
Fixture - **N R W**



# Cement / Screw – Retained Restorations

## Mill / UCLA Abutment

Fixture - **R** **W**



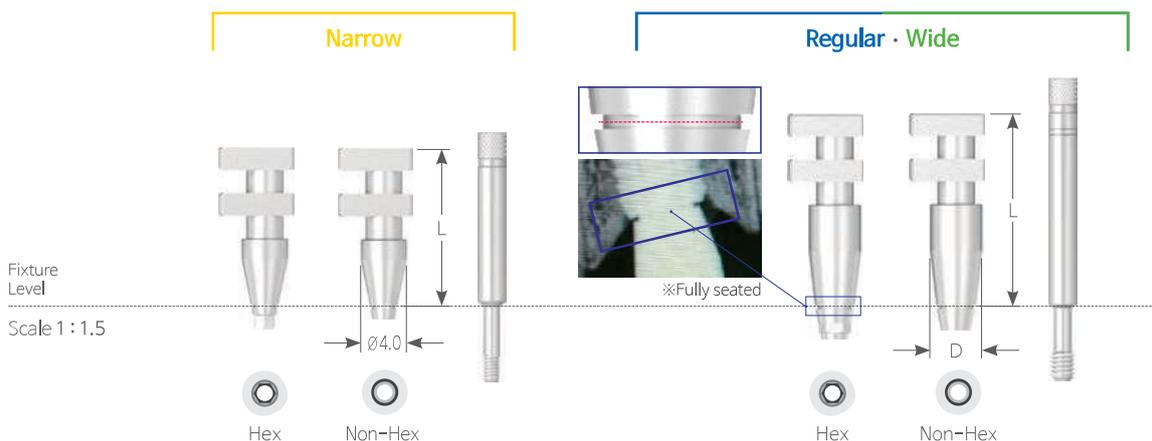
# Abutment Components

## Pick-up Impression Coping

Hex Non-Hex

▶ Custom tray is used for pick-up type of impression taking.

- Uses 1.2 Hex Driver
- Packing Unit : Pick-up Impression Coping + Guide Pin



### N R W Hex

Unit mm

Fixture Size	Narrow		Regular · Wide				
Diameter	Ø4.0	Guide Pin	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Guide Pin
Length 09	-	-	SSPI 4009H	SSPI 4509H	SSPI 5509H	SSPI 6509H	SSG 2021
12	UNSPI 4012H	UNSSG 1422	-	-	-	-	-
13	-	-	SSPI 4013H	SSPI 4513H	SSPI 5513H	SSPI 6513H	SSG 2026
14	UNSPI 4014H	UNSSG 1422	-	-	-	-	-
16	UNSPI 4016H	UNSSG 1425	-	-	-	-	-
17	-	-	SSPI 4017H	SSPI 4517H	SSPI 5517H	SSPI 6517H	SSG 2329
19	-	-	SSPI 4019H	SSPI 4519H	SSPI 5519H	SSPI 6519H	SSG 2329

### N R W Non-Hex

Unit mm

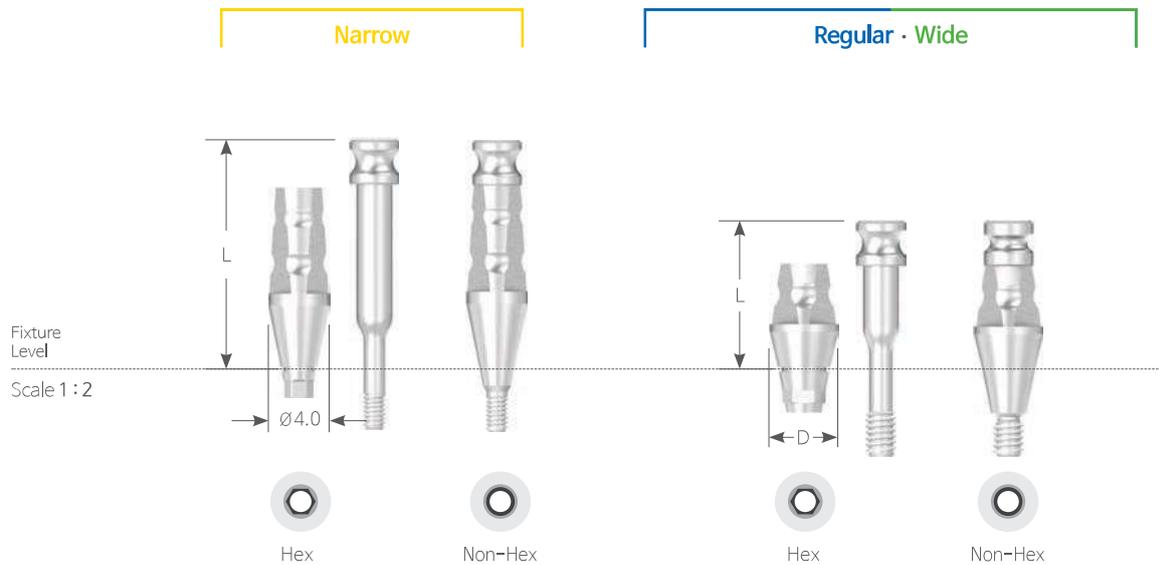
Fixture Size	Narrow		Regular · Wide				
Diameter	Ø4.0	Guide Pin	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Guide Pin
Length 09	-	-	SSPI 4009N	SSPI 4509N	SSPI 5509N	SSPI 6509N	SSG 2021
12	UNSPI 4012N	UNSSG 1422	-	-	-	-	-
13	-	-	SSPI 4013N	SSPI 4513N	SSPI 5513N	SSPI 6513N	SSG 2026
14	UNSPI 4014N	UNSSG 1422	-	-	-	-	-
16	UNSPI 4016N	UNSSG 1425	-	-	-	-	-
17	-	-	SSPI 4017N	SSPI 4517N	SSPI 5517N	SSPI 6517N	SSG 2329
19	-	-	SSPI 4019N	SSPI 4519N	SSPI 5519N	SSPI 6519N	SSG 2329

# Abutment Components

## Transfer Impression Coping Hex Non-Hex

▶ Ready-made tray is used for transfer type of impression taking.

- Double sided structure increases quality.
- Uses 1.2 Hex Driver
- Hex type is two-piece structure and Non-Hex type is one-piece structure.
- Packing Unit : Transfer Impression Coping + Guide Pin (Hex)  
Transfer Impression Coping (Non-Hex)

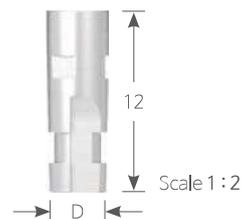


		N R W Hex							Unit mm
Fixture Size		Narrow		Regular · Wide					
Diameter		Ø4.0	Guide Pin	Ø4.0	Ø4.5	Screw	Ø5.5	Ø6.5	Guide Pin
Length 10		-	-	SSTI4010H	SSTI4510H	SSTI4015S	SSTI5510H	SSTI6510H	SSTI6515S
13		UNSTI4013H	UNSTI4013S	-	-	-	-	-	-
15		UNSTI4015H	UNSTI4015S	SSTI4015H	SSTI4515H	SSTI4020S	SSTI5515H	SSTI6515H	SSTI6520S
17		UNSTI4017H	UNSTI4017S	-	-	-	-	-	-

		N R W Non-Hex						Unit mm
Fixture Size		Narrow		Regular · Wide				
Diameter		Ø4.0		Ø4.0	Ø4.5	Ø5.5	Ø6.5	
Length 10		-		SSTI4010N	SSTI4510N	SSTI5510N	SSTI6510N	
13		UNSTI4013N		-	-	-	-	
15		UNSTI4015N		SSTI4015N	SSTI4515N	SSTI5515N	SSTI6515N	
17		UNSTI4017N		-	-	-	-	

# Fixture Analog

▶ Providing anchor point for fabricating implant prosthetics on working model.



**N R W** Length 12 Unit mm | Scale 1 : 1.25

Fixture Size	<b>Narrow</b>	<b>Regular · Wide</b>
Diameter	Ø3.0	Ø4.0



UNSFA 3012



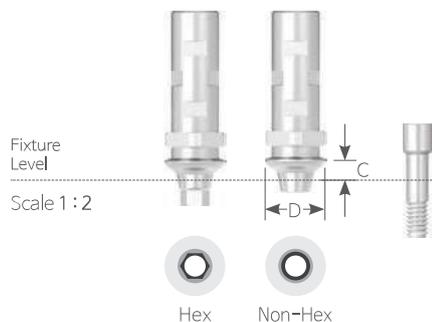
SSFA 4012

# Temporary Abutment

Hex Non-Hex

▶ Used when temporary prosthesis is made

- Hex / Non-Hex type
- Uses 1.2 Hex Driver
- Packing Unit : Abutment + Abutment Screw
- Tightening Torque : **N** 20Ncm, **R W** 30~35Ncm



**N R W** Unit mm | Scale 1 : 1.25

Fixture Size	<b>Narrow</b>		<b>Regular · Wide</b>	
Diameter	Ø4.0		Ø4.5	
Type	Hex	Non-Hex	Hex	Non-Hex



Cuff 1 | UNSFA 4010H



UNSTA 4010N



SSTA 4510H [H]



SSTA 4510N [H]

3 | UNSTA 4030H

UNSTA 4030N

SSTA 4530H [H]

SSTA 4530N [H]

Abut. Screw | UNSAS 1407H

UNSAS 1407H

SSC 2008H

SSC 2008H

# Cemented Abutment Hex Non-Hex

► For cement retained prosthesis

- Gold colored gingival area for esthetic purpose
- Hex / Non-Hex type
- To prevent rotation of prosthesis, it has flap section
- Uses 1.2 Hex Driver
- Compatible with Solid Abutment Impression
- Packing Unit : Abutment + Abutment Screw
- Tightening Torque : **N** 20Ncm, **R W** 30~35Ncm

	<b>N</b>	<b>R</b>	<b>W</b>	Hex	
Fixture Size	<b>Narrow</b>		<b>Regular · Wide</b>		
Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5

Unit:mm | Scale 1 : 1.25



## Length 4

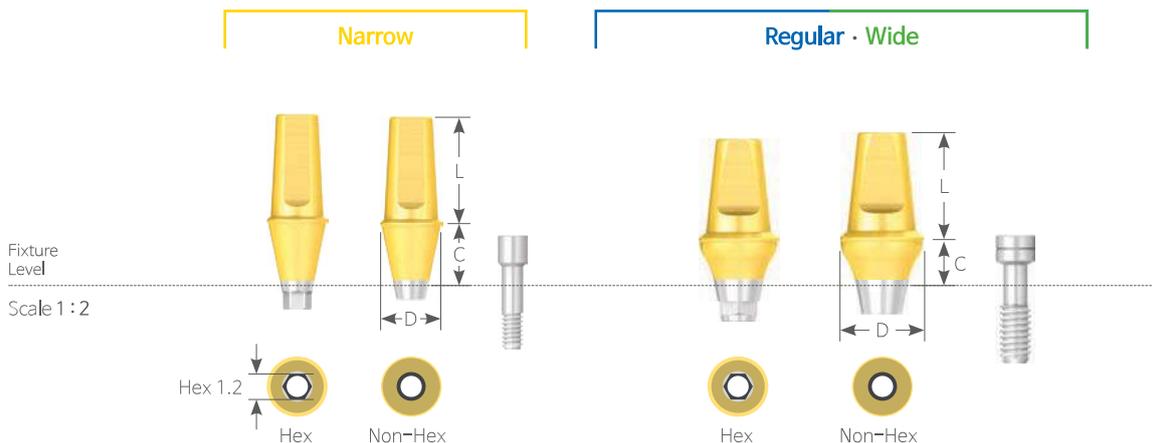
Cuff 1	-	SSCA 45104H(II)[H]	SSCA 55104H(II)[H]	SSCA 65104H(II)[H]	SSCA 75104H(II)[H]
2	-	SSCA 45204H(II)[H]	SSCA 55204H(II)[H]	SSCA 65204H(II)[H]	SSCA 75204H(II)[H]
3	-	SSCA 45304H(II)[H]	SSCA 55304H(II)[H]	SSCA 65304H(II)[H]	SSCA 75304H(II)[H]
4	-	SSCA 45404H(II)[H]	SSCA 55404H(II)[H]	SSCA 65404H(II)[H]	SSCA 75404H(II)[H]
5	-	SSCA 45504H(II)[H]	SSCA 55504H(II)[H]	SSCA 65504H(II)[H]	SSCA 75504H(II)[H]
Screw	-	<b>SSC 2008SH</b>	SSC 2008H	SSC 2008H	SSC 2008H

## Length 5.5

Cuff 1	UNSCA 40105H	SSCA 45105H(II)[H]	SSCA 55105H(II)[H]	SSCA 65105H(II)[H]	SSCA 75105H(II)[H]
2	UNSCA 40205H	SSCA 45205H(II)[H]	SSCA 55205H(II)[H]	SSCA 65205H(II)[H]	SSCA 75205H(II)[H]
3	UNSCA 40305H	SSCA 45305H(II)[H]	SSCA 55305H(II)[H]	SSCA 65305H(II)[H]	SSCA 75305H(II)[H]
4	UNSCA 40405H	SSCA 45405H(II)[H]	SSCA 55405H(II)[H]	SSCA 65405H(II)[H]	SSCA 75405H(II)[H]
5	UNSCA 40505H	SSCA 45505H(II)[H]	SSCA 55505H(II)[H]	SSCA 65505H(II)[H]	SSCA 75505H(II)[H]
6	UNSCA 40605H	-	-	-	-
7	UNSCA 40705H	-	-	-	-
Screw	UNSAS 1407H	<b>SSC 2008SH</b>	SSC 2008H	SSC 2008H	SSC 2008H

## Length 7

Cuff 1	UNSCA 40107H	SSCA 45107H(II)[H]	SSCA 55107H(II)[H]	SSCA 65107H(II)[H]	SSCA 75107H(II)[H]
2	UNSCA 40207H	SSCA 45207H(II)[H]	SSCA 55207H(II)[H]	SSCA 65207H(II)[H]	SSCA 75207H(II)[H]
3	UNSCA 40307H	SSCA 45307H(II)[H]	SSCA 55307H(II)[H]	SSCA 65307H(II)[H]	SSCA 75307H(II)[H]
4	UNSCA 40407H	SSCA 45407H(II)[H]	SSCA 55407H(II)[H]	SSCA 65407H(II)[H]	SSCA 75407H(II)[H]
5	UNSCA 40507H	SSCA 45507H(II)[H]	SSCA 55507H(II)[H]	SSCA 65507H(II)[H]	SSCA 75507H(II)[H]
6	UNSCA 40607H	-	-	-	-
7	UNSCA 40707H	-	-	-	-
Screw	UNSAS 1407H	<b>SSC 2008SH</b>	SSC 2008H	SSC 2008H	SSC 2008H



	<b>N</b>	<b>R</b>	<b>W</b>	Non-Hex		Unit mm   Scale 1 : 1.25
Fixture Size	Narrow		Regular · Wide			
Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5	



Length 4

Cuff 1	-	SSCA 45104N (II)[H]	SSCA 55104N (II)[H]	SSCA 65104N (II)[H]	SSCA 75104N (II)[H]
2	-	SSCA 45204N (II)[H]	SSCA 55204N (II)[H]	SSCA 65204N (II)[H]	SSCA 75204N (II)[H]
3	-	SSCA 45304N (II)[H]	SSCA 55304N (II)[H]	SSCA 65304N (II)[H]	SSCA 75304N (II)[H]
4	-	SSCA 45404N (II)[H]	SSCA 55404N (II)[H]	SSCA 65404N (II)[H]	SSCA 75404N (II)[H]
5	-	SSCA 45504N (II)[H]	SSCA 55504N (II)[H]	SSCA 65504N (II)[H]	SSCA 75504N (II)[H]
Screw	-	SSC 2008SH	SSC 2008H	SSC 2008H	SSC 2008H

Length 5.5

Cuff 1	UNSCA 40105N	SSCA 45105N (II)[H]	SSCA 55105N (II)[H]	SSCA 65105N (II)[H]	SSCA 75105N (II)[H]
2	UNSCA 40205N	SSCA 45205N (II)[H]	SSCA 55205N (II)[H]	SSCA 65205N (II)[H]	SSCA 75205N (II)[H]
3	UNSCA 40305N	SSCA 45305N (II)[H]	SSCA 55305N (II)[H]	SSCA 65305N (II)[H]	SSCA 75305N (II)[H]
4	UNSCA 40405N	SSCA 45405N (II)[H]	SSCA 55405N (II)[H]	SSCA 65405N (II)[H]	SSCA 75405N (II)[H]
5	UNSCA 40505N	SSCA 45505N (II)[H]	SSCA 55505N (II)[H]	SSCA 65505N (II)[H]	SSCA 75505N (II)[H]
6	UNSCA 40605N	-	-	-	-
7	UNSCA 40705N	-	-	-	-
Screw	UNSCA 1407H	SSC 2008SH	SSC 2008H	SSC 2008H	SSC 2008H

Length 7

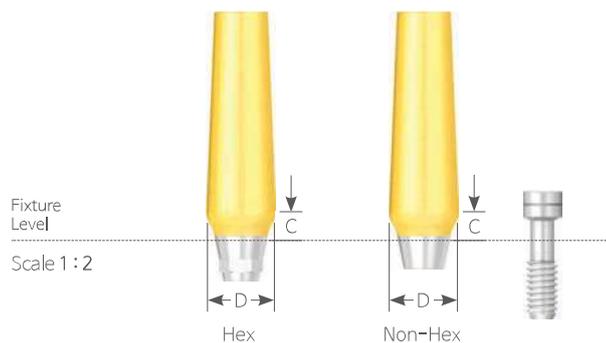
Cuff 1	UNSCA 40107N	SSCA 45107N (II)[H]	SSCA 55107N (II)[H]	SSCA 65107N (II)[H]	SSCA 75107N (II)[H]
2	UNSCA 40207N	SSCA 45207N (II)[H]	SSCA 55207N (II)[H]	SSCA 65207N (II)[H]	SSCA 75207N (II)[H]
3	UNSCA 40307N	SSCA 45307N (II)[H]	SSCA 55307N (II)[H]	SSCA 65307N (II)[H]	SSCA 75307N (II)[H]
4	UNSCA 40407N	SSCA 45407N (II)[H]	SSCA 55407N (II)[H]	SSCA 65407N (II)[H]	SSCA 75407N (II)[H]
5	UNSCA 40507N	SSCA 45507N (II)[H]	SSCA 55507N (II)[H]	SSCA 65507N (II)[H]	SSCA 75507N (II)[H]
6	UNSCA 40607N	-	-	-	-
7	UNSCA 40707N	-	-	-	-
Screw	UNSCA 1407H	SSC 2008SH	SSC 2008H	SSC 2008H	SSC 2008H

# Mill Abutment

Hex Non-Hex

► Used for when high customization in abutment path and prosthetic margins are needed.

- Abutment of cement retained type that uses dental cement to fix prosthesis in place
- Hex / Non-Hex type
- Anti-rotational feature on abutment post.
- Uses 1.2 Hex Driver
- Packing Unit : Abutment + Abutment Screw (SSC 2008H)
- Tightening Torque : 30~35Ncm



## R W Hex

Unit mm | Scale 1 : 1.25

Fixture Size	Regular · Wide				
Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5
Cuff	1.5	2	2.5	3	3



SSMA 4015H [H] SSMA 4520H [H] SSMA 5525H [H] SSMA 6530H [H] SSMA 7530H [H]

## R W Non-Hex

Unit mm | Scale 1 : 1.25

Fixture Size	Regular · Wide				
Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5
Cuff	1.5	2	2.5	3	3

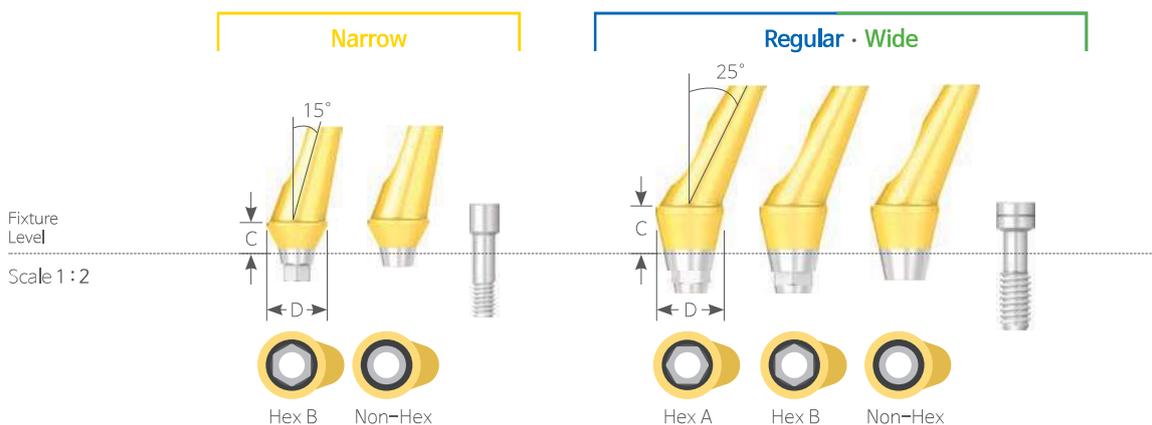


SSMA 4015N [H] SSMA 4520N [H] SSMA 5525N [H] SSMA 6530N [H] SSMA 7530N [H]

# Angled Abutment Hex Non-Hex

► Used to modify the fixture's path mainly used for anterior teeth.

- For Cement retained Type of Abutment
- Depending on the angle slope, it is categorized into 15° and 25° Angled Abutment
- Availability of A type and B type of hex part overcomes the limitation of direction of the abutment
- Gold colored gingival area for esthetic purpose
- Uses 1.2 Hex Driver
- Packing Unit : Abutment + Abutment Screw ( N UNSAS 1407H, R W SSC 2008H)
- Tightening Torque : N 20Ncm, R W 30~35Ncm



## R W Hex A

Fixture Size	Narrow	Regular · Wide			
Diameter	Ø4.0	Ø4.5		Ø5.5	
Angle	15°	15°	25°	15°	25°
Cuff 1.5	-	SSAA 451515AH [H]	SSAA 451525AH [H]	SSAA 551515AH [H]	SSAA 551525AH [H]
2.0	-	SSAA 452015AH [H]	SSAA 452025AH [H]	SSAA 552015AH [H]	SSAA 552025AH [H]
3.0	-	SSAA 453015AH [H]	SSAA 453025AH [H]	SSAA 553015AH [H]	SSAA 553025AH [H]
4.0	-	SSAA 454015AH [H]	SSAA 454025AH [H]	SSAA 554015AH [H]	SSAA 554025AH [H]
5.0	-	SSAA 455015AH [H]	SSAA 455025AH [H]	SSAA 555015AH [H]	SSAA 555025AH [H]

## N R W Hex B

Fixture Size	Narrow	Regular · Wide			
Cuff 1.5	-	SSAA 451515BH [H]	SSAA 451525BH [H]	SSAA 551515BH [H]	SSAA 551525BH [H]
2.0	UNSA A 402015BH	SSAA 452015BH [H]	SSAA 452025BH [H]	SSAA 552015BH [H]	SSAA 552025BH [H]
3.0	-	SSAA 453015BH [H]	SSAA 453025BH [H]	SSAA 553015BH [H]	SSAA 553025BH [H]
4.0	UNSA A 404015BH	SSAA 454015BH [H]	SSAA 454025BH [H]	SSAA 554015BH [H]	SSAA 554025BH [H]
5.0	-	SSAA 455015BH [H]	SSAA 455025BH [H]	SSAA 555015BH [H]	SSAA 555025BH [H]

## N R W Non-Hex

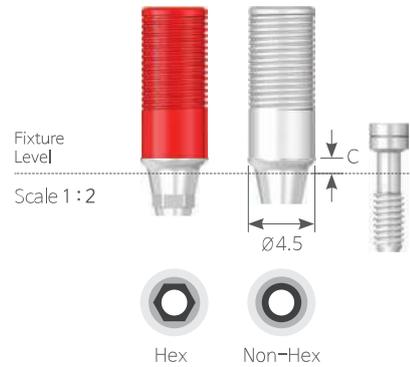
Fixture Size	Narrow	Regular · Wide			
Cuff 1.5	-	SSAA 451515N [H]	SSAA 451525N [H]	SSAA 551515N [H]	SSAA 551525N [H]
2.0	UNSA A 402015N	SSAA 452015N [H]	SSAA 452025N [H]	SSAA 552015N [H]	SSAA 552025N [H]
3.0	-	SSAA 453015N [H]	SSAA 453025N [H]	SSAA 553015N [H]	SSAA 553025N [H]
4.0	UNSA A 404015N	SSAA 454015N [H]	SSAA 454025N [H]	SSAA 554015N [H]	SSAA 554025N [H]
5.0	-	SSAA 455015N [H]	SSAA 455025N [H]	SSAA 555015N [H]	SSAA 555025N [H]

# UCLA Abutment

## UCLA Gold Abutment Hex Non-Hex

► Can be used when there is limitation on path, esthetics, space etc.

- For screw retained prosthesis
- Directly casted on abutment to make inner part of prosthesis
- Customized abutment can be made which can be applied to variety of cases.
- Strong enough for cases requiring difficult angle modification.
- After the customization, **dental gold alloy will be casted only.**
- Melting range on cylinder area : 1400~1450°C
- **(Do not use with non-precious metal alloy)**
- Hex / Non-Hex type · Uses 1.2 Hex Driver
- Packing Unit : Abutment + Abutment Screw (SSC 2008H)
- Tightening Torque : 30~35Ncm



**R W D Ø4.5**

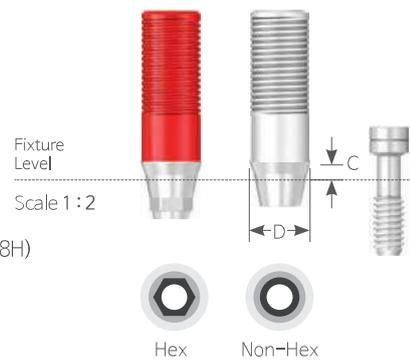
Unit mm | Scale 1 : 1.25

Fixture Size	Regular · Wide	
Type	Hex	Non-Hex

Cuff 1		
3	SSGA 4510H [H] SSGA 4530H [H]	SSGA 4510N [H] SSGA 4530N [H]

## UCLA CCM Abutment Hex Non-Hex

- After the customization, **non-precious metal alloy will be casted only.**
- Hex / Non-Hex type
- Uses 1.2 Hex Driver
- Packing Unit : Abutment + Abutment Screw ( N UNSAS 1407H, R W SSC 2008H)
- Tightening Torque : 30~35Ncm



**N R W**

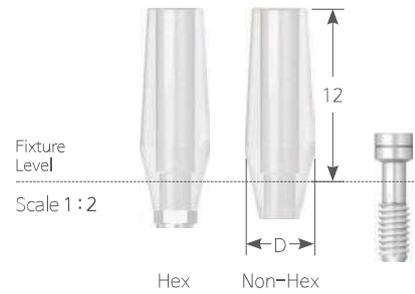
Unit mm | Scale 1 : 1.25

Fixture Size	Narrow		Regular · Wide			
Diameter	Ø4.0	Ø4.0	Ø4.0	Ø4.0	Ø4.5	Ø4.5
Hex	Hex	Non-Hex	Hex	Non-Hex	Hex	Non-Hex

Cuff 1						
3	UNSCCA 4010H UNSCCA 4030H	UNSCCA 4010N UNSCCA 4030N	CCSS 4010H [H] -	CCSS 4010N [H] -	CCSS 4510H [H] CCSS 4530H [H]	CCSS 4510N [H] CCSS 4530N [H]

# UCLA Plastic Abutment Hex Non-Hex

- Less accuracy on connecting part compared to UCLA Gold Abutment.
- After the customization, **non-precious metal alloy will be casted only.**
- Be careful about fracture if deleted
- Hex / Non-Hex type
- Uses 1.2 Hex Driver
- Packing Unit : Abutment + Abutment Screw (SSC2008H)
- Tightening Torque : Tightening smoothly before casting, 30~35Ncm after casting



**R W** Length 12 Unit mm | Scale 1 : 1.25

Fixture Size	Regular · Wide			
Diameter	Ø4.5	Ø4.5	Ø5.5	Ø5.5
Type	Hex	Non-Hex	Hex	Non-Hex



# Cement-Retained Restorations

## Solid Abutment

Fixture - **N** **R** **W**



Plastic Coping  
061P



Solid Abutment Analog  
061P



Impression Cap  
060P



Solid Abutment  
059P



Protect Cap  
060P



UF(II) Narrow  
039P



UF(II) Regular  
040P



UF(II) Wide  
041P



Cover Screw  
042P

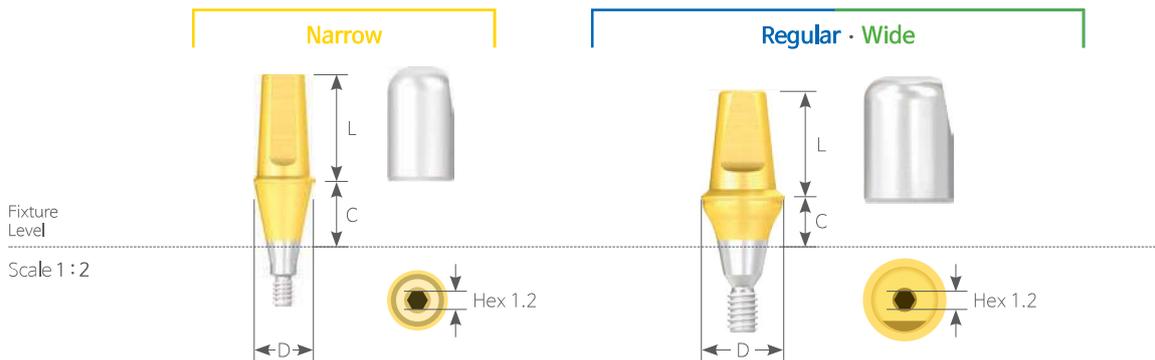


Healing Abutment  
043P

# Solid Abutment

► Abutment of cement retained type that uses dental cement to fix prosthesis in place

- Abutment and screw are in one-piece structure.
- Taking impression at abutment level.
- Gold colored gingival area for esthetic purpose
- Uses 1.2 Hex Driver / Solid Abutment Driver
- Packing Unit : Abutment + Protect Cap
- Tightening Torque : **N** 20Ncm, **R W** 30~35Ncm



**N R W**

Unit mm | Scale 1 : 1.25

Fixture Size	Narrow	Regular - Wide			
Abut. Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5



Abut. Length 4 Cuff	1	2	3	4	5
1	-	SSSA 45104	SSSA 55104	SSSA 65104	SSSA 75104
2	-	SSSA 45204	SSSA 55204	SSSA 65204	SSSA 75204
3	-	SSSA 45304	SSSA 55304	SSSA 65304	SSSA 75304
4	-	SSSA 45404	SSSA 55404	SSSA 65404	SSSA 75404
5	-	SSSA 45504	SSSA 55504	SSSA 65504	SSSA 75504

Abut. Length 5.5 Cuff	1	2	3	4	5	6	7
1	UNSSA 40105	SSSA 45105	SSSA 55105	SSSA 65105	SSSA 75105	-	-
2	UNSSA 40205	SSSA 45205	SSSA 55205	SSSA 65205	SSSA 75205	-	-
3	UNSSA 40305	SSSA 45305	SSSA 55305	SSSA 65305	SSSA 75305	-	-
4	UNSSA 40405	SSSA 45405	SSSA 55405	SSSA 65405	SSSA 75405	-	-
5	UNSSA 40505	SSSA 45505	SSSA 55505	SSSA 65505	SSSA 75505	-	-
6	UNSSA 40605	-	-	-	-	-	-
7	UNSSA 40705	-	-	-	-	-	-

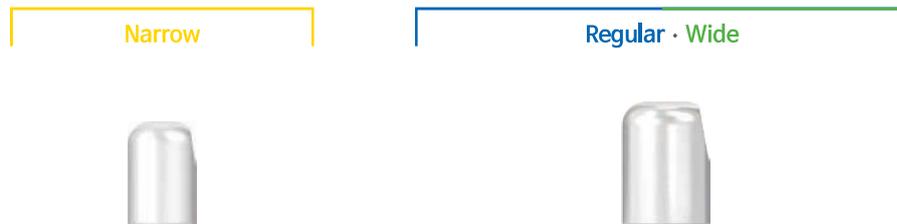
Abut. Length 7 Cuff	1	2	3	4	5	6	7
1	UNSSA 40107	SSSA 45107	SSSA 55107	SSSA 65107	SSSA 75107	-	-
2	UNSSA 40207	SSSA 45207	SSSA 55207	SSSA 65207	SSSA 75207	-	-
3	UNSSA 40307	SSSA 45307	SSSA 55307	SSSA 65307	SSSA 75307	-	-
4	UNSSA 40407	SSSA 45407	SSSA 55407	SSSA 65407	SSSA 75407	-	-
5	UNSSA 40507	SSSA 45507	SSSA 55507	SSSA 65507	SSSA 75507	-	-
6	UNSSA 40607	-	-	-	-	-	-
7	UNSSA 40707	-	-	-	-	-	-

# Solid Abutment Components

## Protect Cap

► Used to protect abutment in the patient's mouth and minimize the discomfort for the patient.

- Can be applied to substructure of temporary prosthesis.
- Convenient locking mechanism.



	<b>N</b>	<b>R</b>	<b>W</b>		
Fixture Size	Narrow		Regular · Wide		
Abut. Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5
Abut. Length 4	-	SSAC 4504	SSAC 5504	SSAC 6504	SSAC 7504
5.5	UNSAAC 4005	SSAC 4505	SSAC 5505	SSAC 6505	SSAC 7505
7	UNSAAC 4007	SSAC 4507	SSAC 5507	SSAC 6507	SSAC 7507

Unit mm | Scale 1 : 2

## Impression Cap

► Used for taking impression of Solid abutment.

- Different coloring provides easy identification for abutment diameter.
- Convenient locking mechanism.



	<b>N</b>	<b>R</b>	<b>W</b>	Length 11		
Fixture Size	Narrow		Regular · Wide			
Abut. Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5	

Unit mm | Scale 1 : 1.25



UNSAI 4011

SSAI 4511

SSAI 5511

SSAI 6511

SSAI 7511

## Solid Abutment Analog

- Solid Abutment is formed on working model.
- Different coloring provides easy identification for abutment diameter.



Scale 1 : 2

	<b>N</b>	<b>R</b>	<b>W</b>			
Fixture Size	Narrow		Regular · Wide			
Abut. Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5	

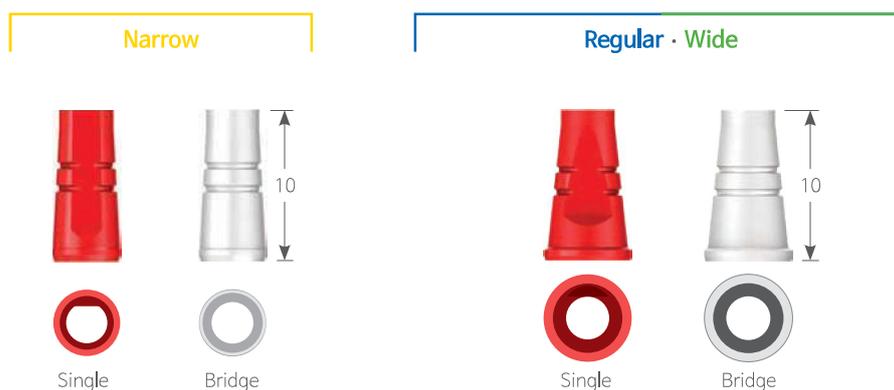
Unit mm | Scale 1 : 1.25



Abut. Length 4	-	SSAA 4504	SSAA 5504	SSAA 6504	SSAA 7504
5.5	UNSSAA 4005	SSAA 4505	SSAA 5505	SSAA 6505	SSAA 7505
7	UNSSAA 4007	SSAA 4507	SSAA 5507	SSAA 6507	SSAA 7507

## Plastic Coping

- ▶ Can be used as prosthesis' frame work by installing Solid fixture analog.
- Different coloring provides easy identification on types of case.



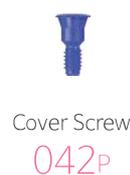
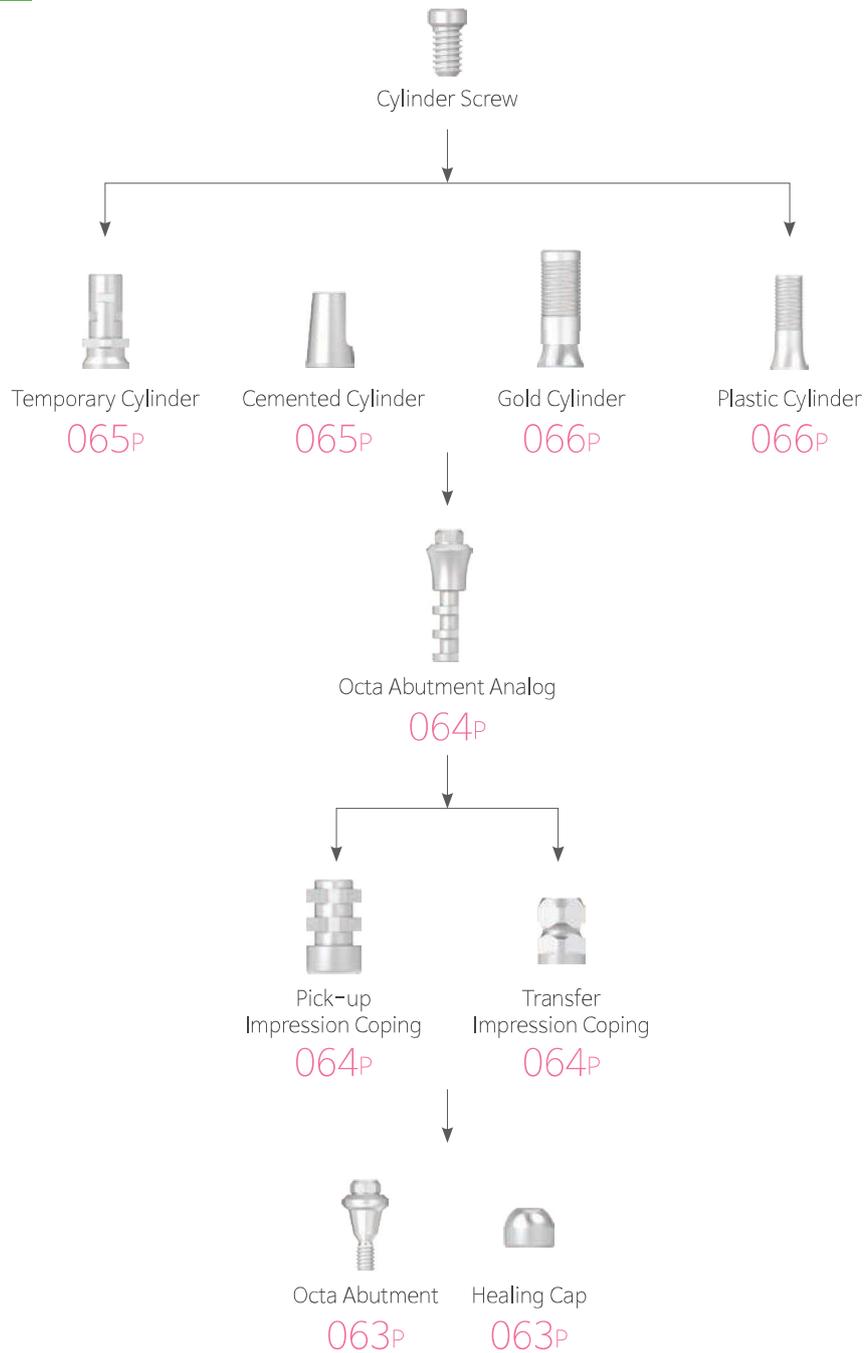
	<b>N</b>	<b>R</b>	<b>W</b>	Length 10		
Fixture Size	Narrow		Regular · Wide			
Abut. Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5	
● Single	UNSA 4010S	SSAP 4510S	SSAP 5510S	SSAP 6510S	SSAP 7510S	
○ Bridge	UNSA 4010B	SSAP 4510B	SSAP 5510B	SSAP 6510B	SSAP 7510B	

Unit mm | Scale 1 : 2

# Screw-Retained Restorations

## Octa Abutment

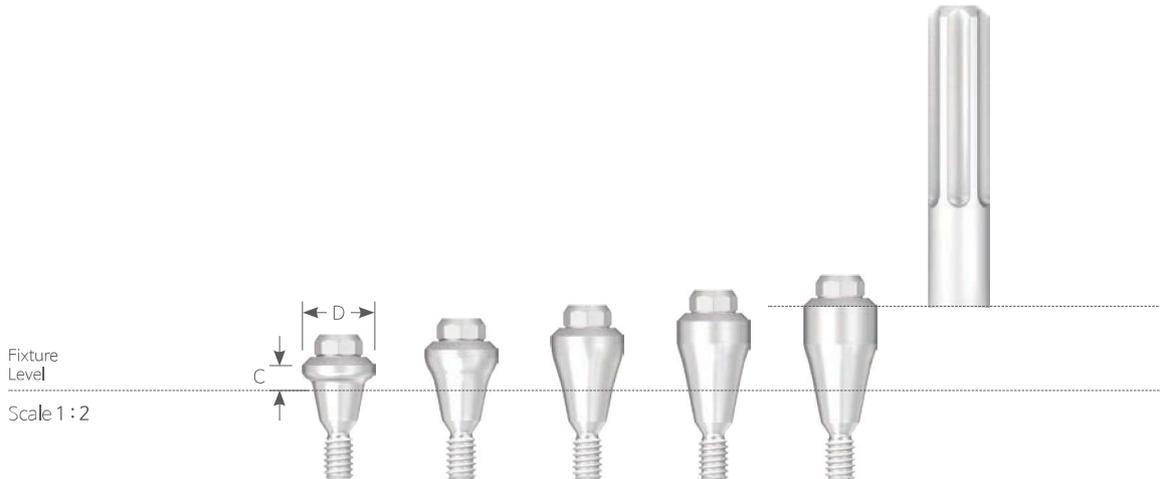
Fixture - **R** **W**



# Octa Abutment

► Used to create screw retained prosthesis on poor path bridge case.

- Convert internal connection to external connection, and then use cylinder on it for prosthesis.
- Uses Octa Abutment Driver (HD 3006A-Short / HD 3012A-Long)
- Packing Unit : Octa Abutment + Abutment Holder (Convenient to install in patient's Mouth.)
- Tightening Torque : 30~35Ncm



R W		Unit mm   Scale 1:2		
Fixture Size	Regular · Wide			
Diameter	Ø4.8	Ø6.0	Ø6.5	
Cuff 1.5	SSOA 4815	SSOA 6015	SSOA 6515	
2.5	SSOA 4825	SSOA 6025	SSOA 6525	
3.5	SSOA 4835	SSOA 6035	SSOA 6535	
4.5	SSOA 4845	SSOA 6045	SSOA 6545	
5.5	SSOA 4855	SSOA 6055	SSOA 6555	

## Healing Cap

► To protect Octa Abutment in oral, and minimize the discomfort for patient.

- Uses 1.2 Hex Driver
- Packing Unit : Healing Cap + Cylinder Screw (STI 2004H)
- Tightening Torque : 20Ncm



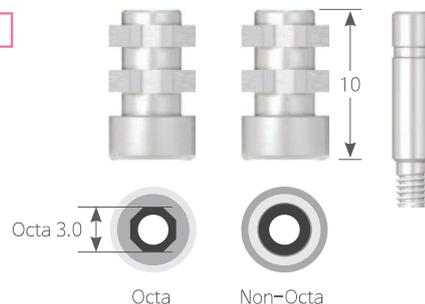
R W		Unit mm   Scale 1:2		
Fixture Size	Regular · Wide			
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5	
	HCI 48504	HCI 60704	HCI 65704	

# Octa Abutment Components

## Pick-up Impression Coping

Octa Non-Octa

- ▶ Custom tray is used for pick-up type of impression taking.
- Asymmetry structure to minimize close interruption
- Uses 1.2 Hex Driver
- Packing Unit : Pick-up Impression Coping + Guide Pin (POI2610)



**R W** Length 10

Unit mm | Scale 1:2

Fixture Size	Regular · Wide		
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5
Octa	IPI 48610	IPI 60710	IPI 65710
Non-Octa	IPI 48610N	IPI 60710N	IPI 65710N

## Transfer Impression Coping

- ▶ Ready-made tray is used for transfer type of impression taking.
- Double sided structure which elevates the quality
- Uses 1.2 Hex Driver
- Packing Unit : Transfer Impression Coping + Coping Screw (IOTI 48010S)



**R W** Length 10

Unit mm | Scale 1:2

Fixture Size	Regular · Wide		
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5
	IOTI 48010	IOTI 60010	IOTI 65010

## Octa Abutment Analog

- ▶ Octa Abutment is formed on working model.



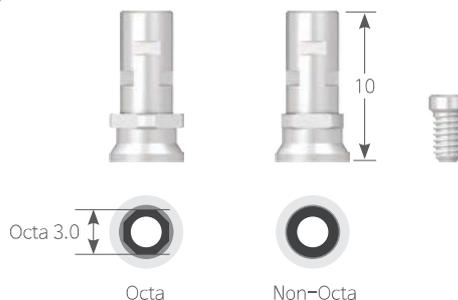
**R W**

Unit mm | Scale 1:2

Fixture Size	Regular · Wide		
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5
Length 10	-	RCI 60014	-
12	RCI 48014	-	RCI 65014

## Temporary Cylinder Octa Non-Octa

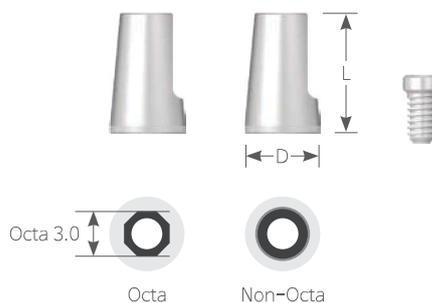
- Uses 1.2 Hex Driver
- Packing Unit : Temporary Cylinder + Cylinder Screw (STI 2004H)
- Tightening Torque : 20Ncm



<b>R W</b> Length 10		Unit mm   Scale 1 : 2		
Fixture Size	Regular · Wide			
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5	
Octa	ITC 48010 [H]	ITC 60010 [H]	ITC 65010 [H]	
Non-Octa	ITC 48010N [H]	ITC 60010N [H]	ITC 65010N [H]	

## Cemented Cylinder Octa Non-Octa

- Uses 1.2 Hex Driver
- Packing Unit : Cemented Cylinder + Cylinder Screw (STI 2004H)
- Tightening Torque : 20Ncm



<b>R W</b>		Unit mm   Scale 1 : 2			
Fixture Size	Regular · Wide				
Abut. Diameter	Ø4.8	Ø4.8	Ø6.0	Ø6.5	
Cylinder Diameter	Ø5.0	Ø5.8	Ø6.4	Ø6.9	
Length	8	8	9	9	
Octa	ICC 48508 [H]	ICC 48588 [H]	ICC 60649 [H]	ICC 65309 [H]	
Non-Octa	ICC 48508N [H]	ICC 48588N [H]	ICC 60649N [H]	ICC 65309N [H]	

# Octa Abutment Components

## Gold Cylinder Octa Non-Octa

- After the customization, **dental gold alloy will be casted only.**
- Cylinder fusion range: 1400°C~1450°C  
(Do not use with non-precious metal alloy)
- Uses 1.2 Hex Driver
- Packing Unit : Gold Cylinder + Cylinder Screw (STI 2004H)
- Tightening Torque : 20Ncm



R W		Unit mm   Scale 1 : 2		
Fixture Size	Regular · Wide			
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5	
Octa ●	AGI 48504 [H]	AGI 60004 [H]	AGI 65704 [H]	
Non-Octa ○	AGI 48504N [H]	AGI 60004N [H]	AGI 65704N [H]	

## Plastic Cylinder Octa Non-Octa

- After the customization, **non-precious metal alloy will be casted only.**
- Less accuracy on connecting part compared to Gold Cylinder.
- Uses 1.2 Hex Driver
- Packing Unit : Plastic Cylinder + Cylinder Screw (STI 2004H)
- Tightening Torque : 20Ncm

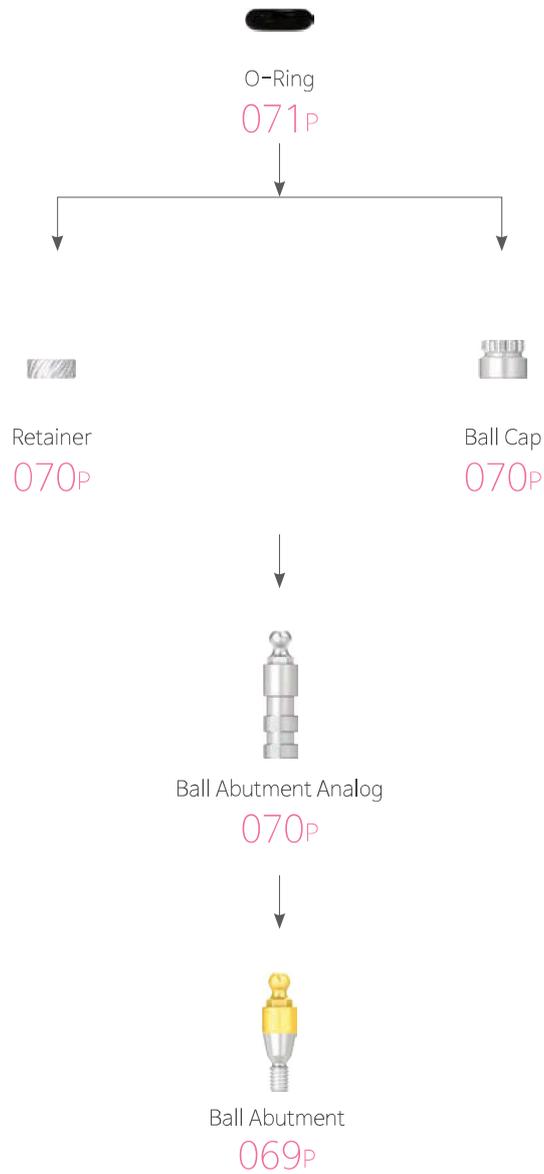


R W		Unit mm   Scale 1 : 2		
Fixture Size	Regular · Wide			
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5	
Octa ●	API 48514 [H]	API 60714 [H]	API 65714 [H]	
Non-Octa ○	API 48514N [H]	API 60714N [H]	API 65714N [H]	

# Overdenture-Retained Restorations

## Ball Abutment

Fixture - **R** **W**



# Overdenture-Retained Restorations

## Ball Abutment / Locator

Fixture - **N** **R** **W**



Stainless Steel Housing

071P



OT Cap

071P



Ball Abutment Analog

0708P



Ball Abutment

069P



Denture Cap

073P



Male

073P



Locator

073P



UF(II) Narrow

039P



UF(II) Regular

040P



UF(II) Wide

041P



Cover Screw

042P

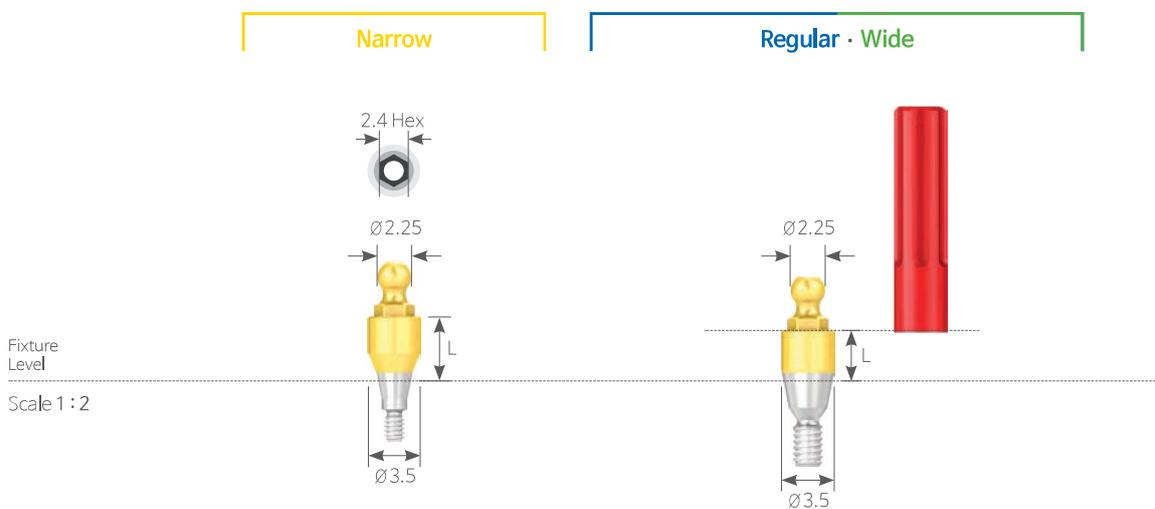


Healing Abutment

043P

# Ball Abutment

- ▶ Used to create over-denture for edentulous patient.
- ▶ Used when fixed type prosthesis is difficult due to severe bone or soft tissue loss.
- Composition of o-ring: For dental lab use (black), for clinic use (orange)
- Post part is coloring in gold
- Path recovery to the maximum of 20°
- Uses Ball Abutment Driver
- Packing Unit : Abutment (Holder installation : Convenient to install in patient's mouth) + O-Ring (Orange)
- Tightening Torque : **N** 20Ncm, **R W** 30~35Ncm



	<b>N</b>	<b>R</b>	<b>W</b>
Fixture Size	<b>Narrow</b>		<b>Regular · Wide</b>
Diameter	Ø3.5		Ø3.5
Length 1	UNSBA <b>3510</b>		SSBA <b>3510</b>
2	UNSBA <b>3520</b>		SSBA <b>3520</b>
3	UNSBA <b>3530</b>		SSBA <b>3530</b>
4	UNSBA <b>3540</b>		SSBA <b>3540</b>
5	UNSBA <b>3550</b>		SSBA <b>3550</b>
6	UNSBA <b>3560</b>		SSBA <b>3560</b>
7	UNSBA <b>3570</b>		SSBA <b>3570</b>

Unit:mm

# Ball Abutment Components

## Ball Abutment Analog

► Provides anchor point for ball abutment on working model.



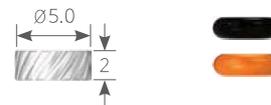
**N R W** Length 10

Unit mm | Scale 1:2

Fixture Size	<b>Narrow</b>	<b>Regular · Wide</b>
Abut. Diameter	Ø3,5	Ø3,5
	UNSBAA 3510	SABA 3510

## Retainer

- Advantageous when occlusal distance is low compare to Ball Cap.
- Packing Unit : Retainer + O-Ring (OR 0450 B / OR 0450 O)



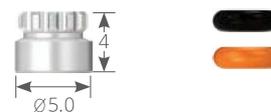
**N R W D Ø5.0** Length 2

Unit mm | Scale 1:2

Fixture Size	<b>Narrow · Regular · Wide</b>
	RT 0502

## Ball Cap

- Outstanding consistency and clip-on
- Packing Unit : Ball Cap + O-Ring (OR 0450B / OR 0450O)



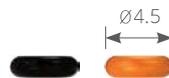
**N R W D Ø5.0** Length 4

Unit mm | Scale 1:2

Fixture Size	<b>Narrow · Regular · Wide</b>
	BC 5004

## O-Ring

- Black : For dental lab use
- Orange : For clinical use (Over 6Ncm)
- Packing Unit : O-Ring 1 Piece



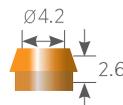
**N R W D Ø4.5** Unit mm | Scale 1 : 2

Fixture Size Narrow · Regular · Wide

	OR 0450B	OR 04500
Color	● Black	● Orange

## OT Cap Orange

- Excellent retention is obtained with broader contact area compared to o-ring.
- Packing Unit : 6 Piece
- Caution) There is no separate cap for dental lab.  
Replace the cap after making the denture.



**N R W D Ø4.2 Length 2.6** Unit mm | Scale 1 : 2

Fixture Size Narrow · Regular · Wide

**049PCNDR8**

## Stainless Steel Housing

- The new stainless steel housing decrease the size that can provide better stability and retention with resin.
- Packing Unit : 2 Piece



**N R W D Ø4.6 Length 3** Unit mm | Scale 1 : 2

Fixture Size Narrow · Regular · Wide

**041CAN**

# Ball Abutment Components

## Insertion Tool For Caps

- ▶ Used for insertion the cap in the stainless housing.
- Possible to use both tip in a normal and micro situation.
- Packing Unit : Handle + Tip



**N R W**

Fixture Size

**Narrow** · **Regular** · **Wide**

085IAC

## Remover Tool For Caps

- ▶ Used for removing the cap from the stainless housing
- Possible to use in both normal and micro situation with one tool.



**N R W**

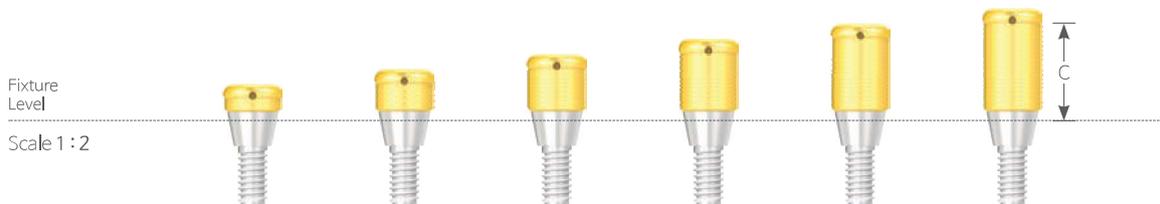
Fixture Size

**Narrow** · **Regular** · **Wide**

091EC

# Locator

- Upgraded from the conventional method used (O-Ring System, Bar Type System, etc.) by connecting a locator abutment to the fixture and used by connecting to / separating from male part connected to the denture



Unit mm | Scale 1 : 1.25

N R W		
Fixture Size	Narrow	Regular · Wide
Cuff 1	02961	02967
2	02962	02968
3	02963	02969
4	02964	02970
5	02965	02971
6	02966	02972

## Male

N R W Standard 20°

Retention	1.5 LBS	3 LBS	5 LBS
Intensity	LOC 8529 Weak	LOC 8527 Intermediate	LOC 8524 Strong

N R W Angled 40°

Retention	0 LBS	1 LBS	2 LBS	4 LBS
Intensity	LOC 8558 Weak	LOC 8548 Intermediate	LOC 8915 Intermediate	LOC 8547 Strong

## Male Package

- Packing Unit : Denture Caps (LOC 8510) + Black Processing Males (LOC 8515) + Retention Males (White, Pink, Blue) + Block-Out Spacers (LOC 8514)



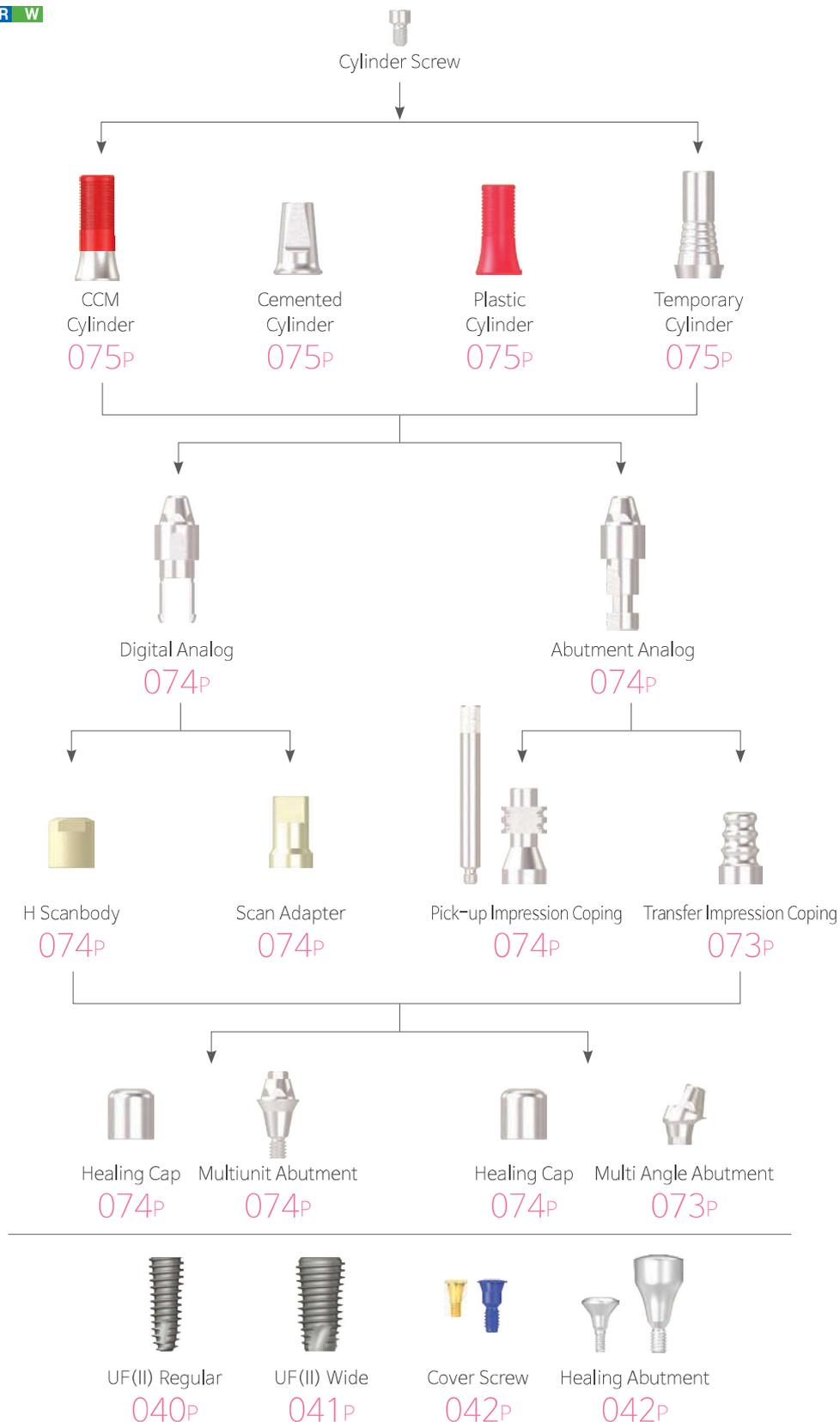
N R W

Type	2 Set
	08519-2

# Screw-Retained Restorations

## Multiunit Abutment

Fixture - **R** **W**



# Muliunit Straight Abutment

- Screw-Retained type
- Tightening Torque : 30Ncm
- Packing unit : Multi Straight Abutment + Holder
- Use  $\varnothing 2.0$  Multi Straight Abutment Driver ( HD 2012A)



<b>R</b>	<b>W</b>	<b>D <math>\varnothing 4.8</math></b>	Hex 2.0	Unit mm	
Cuff	1.5	2.5	3.5	4.5	
	MSA 4801	MSA 4802	MSA 4803	MSA 4804	

# Muliunit Angle Abutment

- Screw Retained type (Post Hex type)
- Multi Angled Abutment and Fixture are fastened with the Multi Angled abutment screw (MASC 2006).
- Multi Angel Abutment compensate Maximum 30°
- Tightening Torque : 30Ncm
- Packing unit : Multi Angled Abutment + Screw + Holder
- Use Multi Angle Abutment Driver : MHD 1215A (Ratchet) / MMD 1224 (Machine)

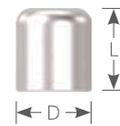


<b>R</b>	<b>W</b>	<b>D <math>\varnothing 4.8</math></b>	Hex	Unit mm	
Angle				20°	30°
Cuff 2.5				MAA 482520H	
3.5				MAA 483520H	MAA 483530H
4.5				MAA 484520H	MAA 484530H
5.5				MAA 485520H	MAA 485530H

# Multiunit Abutment Components

## Healing Cap

- To protect Abutment and minimize the discomfort in the patient's mouth
- Use 1.2 Hex Driver
- Tightening Torque : 5~8Ncm



**R W D Ø5.0** Length 5.5

Unit mm | Scale 1:2

Code	MHC 5005
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## Pick-up Impression Coping

- Used with an open tray
- Only for Multi Abutment
- Use 1.2 Hex Driver
- Tightening Torque : 5~8Ncm
- Packing Unit : Pick-up Impression Coping + Guide Pin (MGP 1615 / Option : MGP 1610, MGP 1620)



**R W D Ø4.8** Length 17

Unit mm | Scale 1:2

Type	Hex	Non Hex
	MPI 4811H	MPI 4811N

## Transfer Impression Coping

- Used with Closed Tray
- Only for Multi Abutment
- Use 1.2 Hex Driver
- Tightening Torque : 5~8Ncm



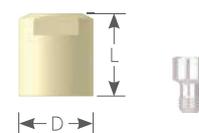
**R W D Ø4.8** Length 8

Unit mm | Scale 1:2

Code	MTI 4808N
------	-----------

## H-Scan body

- Healing Abutment function
- Use for digital Impression taking
- Use 1.2 Hex Driver
- Tightening Torque : 5~8Ncm
- Packing Unit : H-Scan Body + H-Scan Body Screw Screw (MHSBSC 1603)



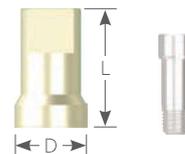
**R W D Ø5.0** Length 5.6

Unit mm | Scale 1:2

Code	MHSB 5005H
------	------------

## Scan Adapter

- Use for digital Impression taking
- Use 1.2 Hex Driver
- Tightening Torque : 5~8Ncm
- Packing Unit : Scan Adapter + Coping Screw (MCSC 1606)



**R** **W** **D** Ø4.8 Length 8

Unit mm | Scale 1:2

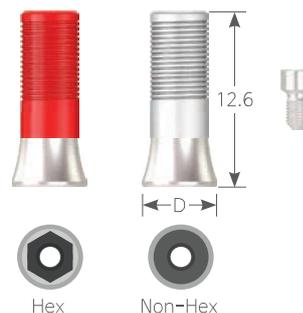
Code

MSCAN 4808H

## CCM Cylinder

Hex Non-Hex

- Color Type : Hex type (Red), Non-Hex type (White)
- CCM fusion range : 1380 °C ~1420 °C
- Use 1.2 Hex Driver
- Tightening Torque : 20Ncm
- Packing Unit : CCM Cylinder + Cylinder Screw (MSC 1604)



**R** **W** **D** Ø5.0 Length 12.6

Unit mm | Scale 1:2

Type

Hex

Non Hex

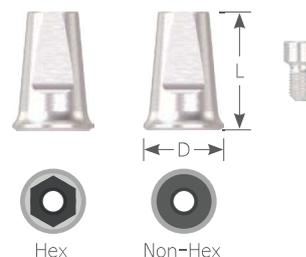
MCCM 5005H

MCCM 5005N

## Cemented Cylinder

Hex Non-Hex

- Use 1.2 Hex Driver
- Tightening Torque : 20Ncm
- Packing Unit : Cemented Cylinder + Cylinder Screw (MSC 1604)



**R** **W** **D** Ø5.4 Length 8

Unit mm | Scale 1:2

Type

Hex

Non Hex

MCEM 5408H

MCEM 5408N

# Multunit Abutment Components

## Plastic Cylinder Hex Non-Hex

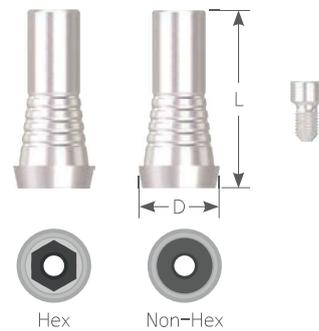
- Color Type : Hex type (Red), Non-Hex type (White)
- Use 1.2 Hex Driver
- Tightening Torque : 20Ncm
- Packing Unit : Plastic Cylinder + Cylinder Screw (MSC 1604)



<b>R</b> <b>W</b> <b>D</b> $\text{\O}5.0$ Length 10	Unit mm   Scale 1:2	
Type	Hex	Non Hex
	MPLA 5010H	MPLA 5010N

## Temporary Cylinder Hex Non-Hex

- Use 1.2 Hex Driver
- Tightening Torque : 20Ncm
- Packing Unit : Temporary Cylinder + Cylinder Screw (MSC 1604)



<b>R</b> <b>W</b> <b>D</b> $\text{\O}5.4$ Length 12	Unit mm   Scale 1:2	
Type	Hex	Non Hex
	MTEM 5412H	MTEM 5412N

## Cylinder Screw



<b>R</b> <b>W</b> Length 4	Unit mm   Scale 1:2	
Code	MSC 1604	

## Abutment Analog

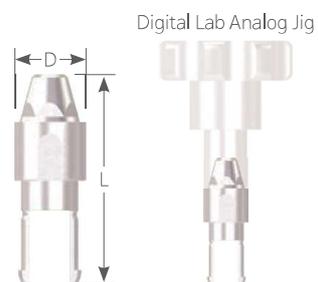
· Usage for laboratory fabricated Abutment level cast model



<b>R</b> <b>W</b> <b>D</b> Ø4.8 Length 15	Unit mm   Scale 1:2
Code	MLA 4815H

## Digital Analog

· Usage for 3D Printing Model



<b>R</b> <b>W</b> <b>D</b> Ø4.8 Length 14.2	Unit mm   Scale 1:2
Code	MDA 4813

# Surgical Tool

## Screw Driver

· Only use Multi Abutment

<b>K</b> Hex 1.2	● Sold separately	
	Unit mm   Scale 1:1	
Type	Machine	Ratchet
Code	MMD 1224	MHD 1215A



# UFII Master Kit Kit Code I UF(M) 06

- Kit composed of drill with outstanding cutting force and durability, etc.
- UF(II) Narrow  $\varnothing 3.0$   $\varnothing 3.3$  / UF(II) Regular  $\varnothing 3.8$   $\varnothing 4.0$   $\varnothing 4.5$   $\varnothing 5.0$  Fixture

Unit mm | Drill Scale 1 : 0.9

**Lindemann Drill**  
RMH 2014S

**Starter Drill**  
SD 1530M

**Initial Drill**  
DSU 2008M  
DSU 2010M  
DSU 2011M  
DSU 2013M

**Parallel Pin**  
PP 2022 · PP 2023

**Drill**  
DSU 2708M · DSU 3008M · DSU 3208M · DSU 3808M · DSU 4308M  
DSU 2710M · DSU 3010M · DSU 3210M · DSU 3810M · DSU 4310M  
DSU 2711M · DSU 3011M · DSU 3211M · DSU 3811M · DSU 4311M  
DSU 2713M · DSU 3013M · DSU 3213M · DSU 3813M · DSU 4313M

**Profile Drill**  
UPD 3805M  
UPD 4005M  
UPD 4505M  
UPD 5005M

**Drill Extension**  
DE 3811

**Abutment Removing Driver**  
HARD 20315A

**Ball Abutment Driver**  
HD 2412A

**Solid Abutment Driver**  
HDS 4506A · HDS 5506A · HDS 6506A  
HDS 4512A · HDS 5512A · HDS 6512A

**Tap Drill**  
UNTD 3015  
UNTD 3315

**Fixture Driver**  
UNFDC 3012  
UNFDC 3018  
UNFDW 3012  
UNFDW 3018

**Screw Driver**  
MD 1230  
HD 1215A

**Mount Driver**  
MHDC 2520  
MHDR 2513A

**Torque Wrench**  
DTW 0060

**Open Wrench**  
OW 004

**Depth Gauge**  
DPG 2050

# UFII Surgical Kit Kit Code I UF(M) 07

- Kit composed of drill with outstanding cutting force and durability, etc.
- UF(II) Narrow  $\varnothing 3.0$   $\varnothing 3.3$  / UF(II) Regular  $\varnothing 3.8$   $\varnothing 4.0$   $\varnothing 4.5$   $\varnothing 5.0$   $\varnothing 5.5$  Fixture

Unit mm | Drill Scale 1 : 0.9

**Starter Drill**  
SD 1530M

**Initial Drill**  
DSU 2008M  
DSU 2010M  
DSU 2011M  
DSU 2013M

**Parallel Pin**  
PP 2022  
PP 2023

**Drill**  
DSU 2708M · DSU 3008M · DSU 3208M · DSU 3808M · DSU 4308M  
DSU 2710M · DSU 3010M · DSU 3210M · DSU 3810M · DSU 4310M  
DSU 2711M · DSU 3011M · DSU 3211M · DSU 3811M · DSU 4311M  
DSU 2713M · DSU 3013M · DSU 3213M · DSU 3813M · DSU 4313M

**Lindemann Drill**  
RMH 2014S

**Drill Extension**  
DE 3811

**Tap Drill**  
UNTD 3015  
UNTD 3315

**Profile Drill**  
UPD 3805M  
UPD 4005M  
UPD 4505M  
UPD 5005M

**Fixture Driver ( $\varnothing 3.0$  /  $3.3$ )**  
UNFDC 3012 · UNFDW 3012  
UNFDC 3018 · UNFDW 3018

**Screw Driver**  
MD 1230  
HD 1215A

**Fixture Driver**  
FDC 3506 · FDW 3506A  
FDC 3512 · FDW 3518A

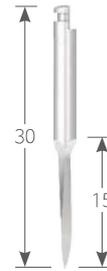
**Torque Wrench**  
DTW 0060

**Open Wrench**  
OW 004

**Depth Gauge**  
DPG 2050

# Surgical Tool

## Starter Drill



**K**

Unit mm | Scale 1 : 1.15

Code	SD 1530M
------	----------

## Intial Drill

**K** D Ø2.0

Unit mm | Scale 1 : 1

Code	DSU 2008M	DSU 2010M	DSU 2011M	DSU 2013M
------	-----------	-----------	-----------	-----------



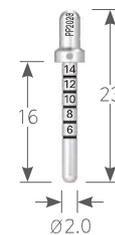
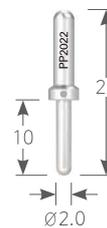
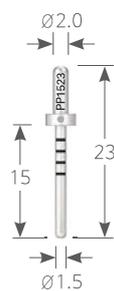
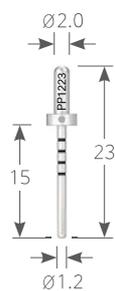
## Parallel Pin

**K**

● Sold separately

Unit mm | Scale 1 : 1

Code	PP 1223	PP 1523	PP 2015	PP 2022	PP 2023
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## Path Pin



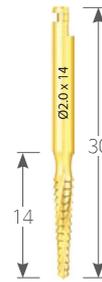
**K**

● Sold separately

Unit mm | Scale 1 : 1.2

Code	DPP 3512
------	----------

## Lindemann Drill



**K** D Ø2.0

Unit mm | Scale 1 : 1.2

Code	RMH 2014S
------	-----------

## Positioning Guide



● Sold separately

**K** D Ø2.0

Unit mm | Scale 1 : 1.2

Code	PG 0060
------	---------

## Angled Path Pin

● Sold separately

**K**

Unit mm | Scale 1 : 1.15

Code	DAP 4515A	DAP 4515B
------	-----------	-----------



Hex A

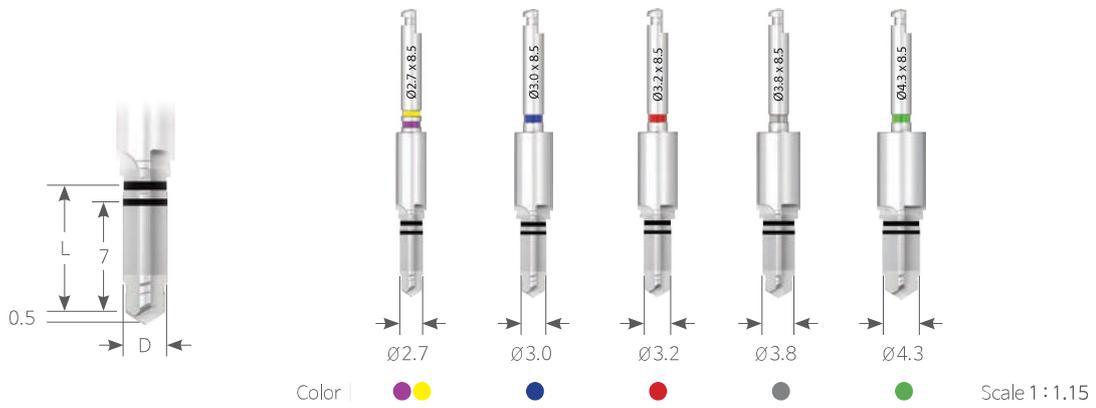


Hex B

Type

# Surgical Tool

## Drill



● Sold separately

### **K** D Ø2.7

Unit mm | Scale 1 : 1

Code	DSU 2708M	DSU 2710M	DSU 2711M	DSU 2713M	DSU 2715M	DSU 2718M
------	-----------	-----------	-----------	-----------	-----------	-----------



### **K** D Ø3.0

Unit mm | Scale 1 : 1

Code	DSU 3008M	DSU 3010M	DSU 3011M	DSU 3013M	DSU 3015M	DSU 3018M
------	-----------	-----------	-----------	-----------	-----------	-----------



**K D Ø3.2**

Unit mm | Scale 1:1

Code	DSU3208M	DSU 3210M	DSU 3211M	DSU 3213M	DSU 3215M	DSU 3218M
------	----------	-----------	-----------	-----------	-----------	-----------



Length	8.5	10	11.5	13	15	18
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**K D Ø3.8**

Unit mm | Scale 1:1

Code	DSU 3808M	DSU 3810M	DSU 3811M	DSU 3813M	DSU 3815M	DSU 3818M
------	-----------	-----------	-----------	-----------	-----------	-----------



Length	8.5	10	11.5	13	15	18
--------	-----	----	------	----	----	----

**K D Ø4.3**

Unit mm | Scale 1:1

Code	DSU4308M	DSU 4310M	DSU 4311M	DSU 4313M	DSU 4315M	DSU 4318M
------	----------	-----------	-----------	-----------	-----------	-----------



Length	8.5	10	11.5	13	15	18
--------	-----	----	------	----	----	----

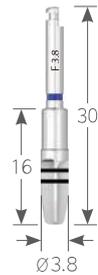
# Surgical Tool

## Profile Drill

**K**

Unit mm | Scale 1:1

Fixture Size	Ø3.8	Ø4.0	Ø4.5	Ø5.0
Code	UPD 3805M	UPD 4005M	UPD 4505M	UPD 5005M



Color



## Tap Drill

**K**

Unit mm | Scale 1:1

Fixture Size	Ø3.0	Ø3.3	Ø3.8	Ø4.0	Ø4.5	Ø5.0
Code	UNTD 3015	UNTD 3315	UT (II) 3815	UT (II) 4015	UT (II) 4515	UT (II) 5015



Color



## Drill Extension



**K**

Unit mm | Scale 1:1.2

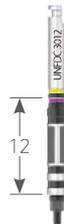
Code	DE 3811
------	---------

## Fixture Driver Narrow

● Sold separately

### **K** Machine

Unit mm | Scale 1:1

Code	UNFDC 3006	UNFDC 3012	UNFDC 3018
			

### **K** Ratchet

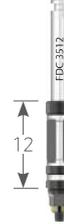
Code	UNFDW 3006	UNFDW 3012	UNFDW 3018
			

## Fixture Driver Regular / Wide

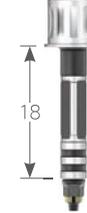
● Sold separately

### **K** Machine

Unit mm | Scale 1:1

Code	FDC 3506	FDC 3512	FDC 3518
			

### **K** Ratchet

Code	FDW 3506A	FDW 3512A	FDW 3518A
			

# Surgical Tool

## Screw Driver Machine

● Sold separately

**K** Slot 0.5

Unit mm | Scale 1:1

Code	MD 0522	MD 0530
------	---------	---------



**K** Hex 0.9

Code	MD 0922	MD 0930
------	---------	---------



**K** Hex 1.2

Code	MD 1219	MD 1222	MD 1230	MD 1234	MD 1239
------	---------	---------	---------	---------	---------



**K** Torx 1.7

Code	MD 1719	MD 1722	MD 1730
------	---------	---------	---------



# Screw Driver Ratchet

● Sold separately

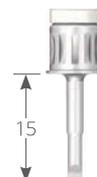
**K** Slot 0.5

Unit mm | Scale 1:1

Code

HD 0510A

HD 0515A



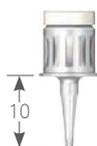
**K** Hex 0.9

Code

HD 0910A

HD 0915A

HD 0920A



**K** Hex 1.2

Code

HD 1205A

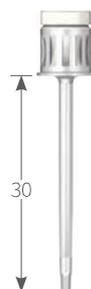
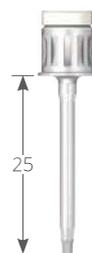
HD 1210A

HD 1215A

HD 1220A

HD 1225A

HD 1230A



**K** Torx 1.7

Code

HD 1705A

HD 1710A

HD 1715A

HD 1720A

HD 1725A



# Surgical Tool

## Fixture Mount Driver

· UF(II) Master Kit only

**K** Hex 2.5

Unit mm | Scale 1 : 1

Type	Machine		Ratchet	
Code	MHDC 2520	MHDC 2525	MHDR 2513A	MHDR 2518A



## Solid Abutment Driver

· UF(II) Master Kit only

**K**

Unit mm | Scale 1 : 1.2

Length	6	12
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Diameter Ø4.5	HDS 4506A	HDS 4512A
Ø5.5	HDS 5506A	HDS 5512A
Ø6.5	HDS 6506A	HDS 6512A

## Ball Abutment Driver

· UF(II) Master Kit only

● Sold separately

**K**

Unit mm | Scale 1 : 1

Code	HD 2406A	HD 2412A
------	----------	----------



# Removing Driver

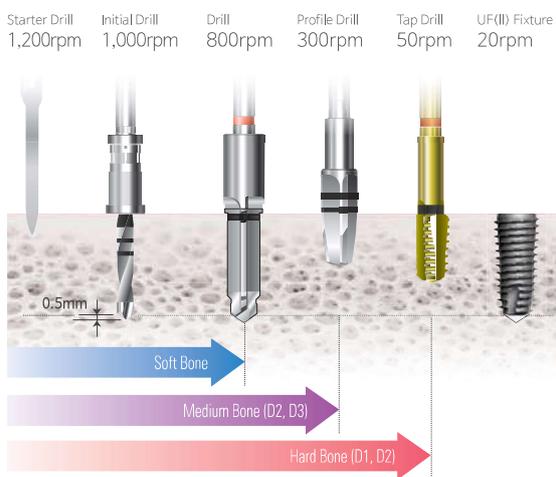
· UF(II) Master Kit only

<b>K</b>	Unit mm   Scale 1 : 1
Code	HARD 20315A      HARD 20320A



# Surgical Protocol

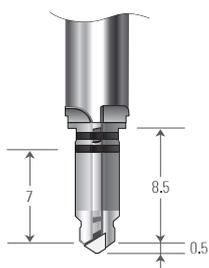
## Crestal Placement



## 1mm Subcrestal Placement

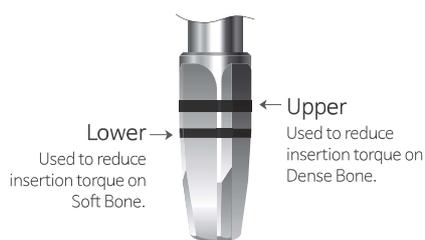


**Drill**  
Using 8.5mm Drill with laser marking to place 7mm implant

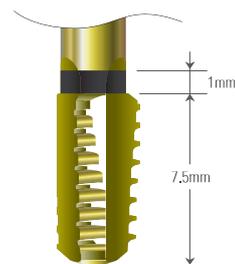


### Profile Drill

Drilling depth can effect initial stability.



### Tap Drill

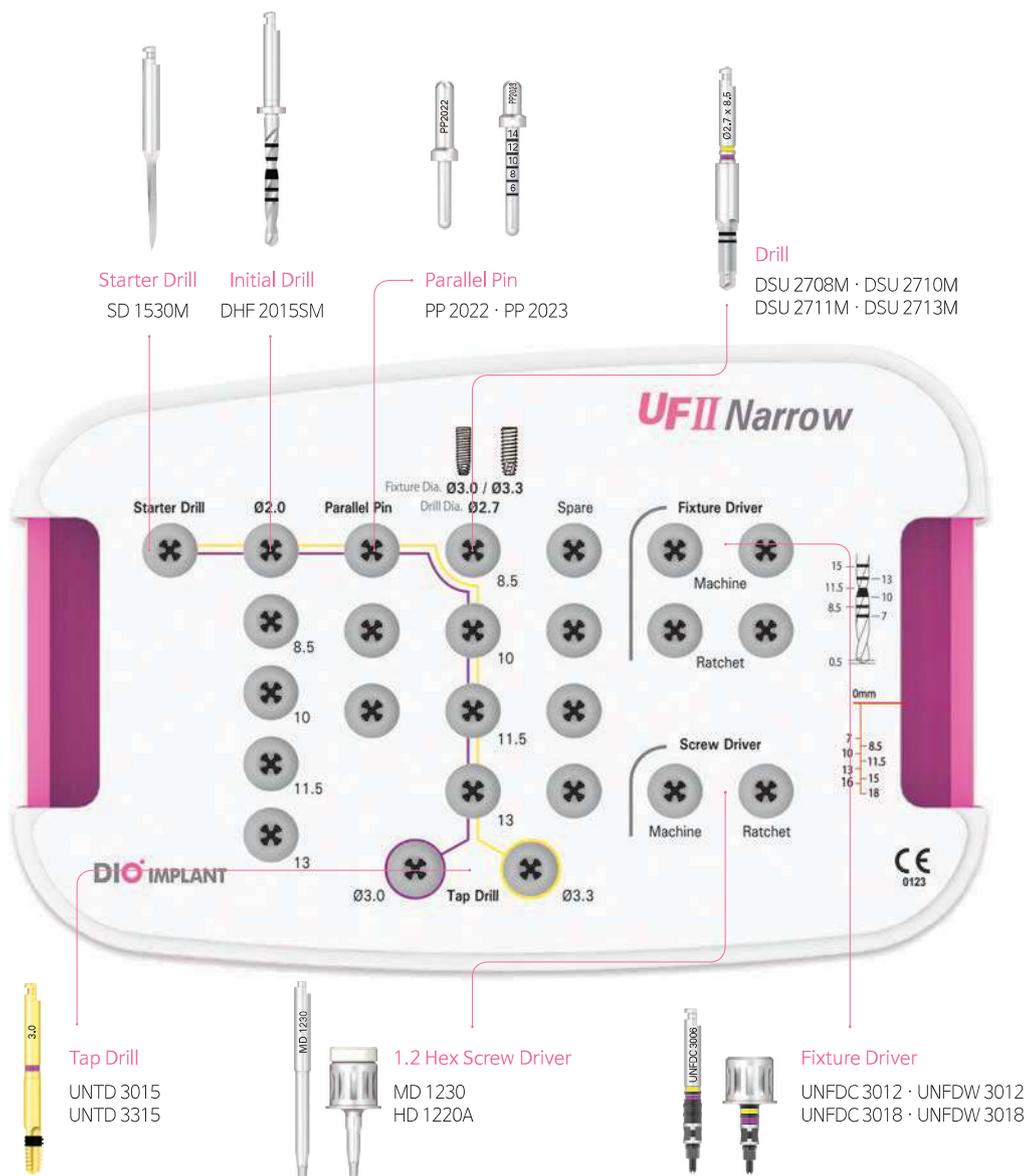


# UFII Narrow Kit

Kit Code | UF(M) 08

- Kit composed of drill with outstanding cutting force and durability, etc.
- UF(II) Narrow  $\varnothing 3.0$   $\varnothing 3.3$  Fixture

Unit mm | Drill Scale 1 : 0.9



# Surgical Tool

## Starter Drill



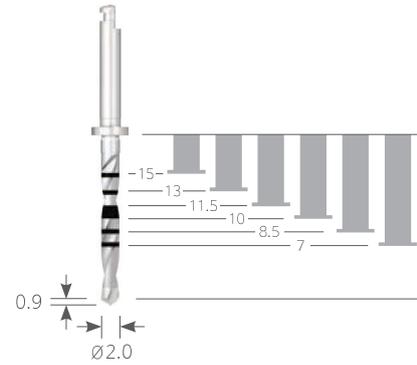
**K**

Unit mm | Scale 1:1.2

Code

SD 1530M

## Initial Drill



**K** D Ø2.0

Unit mm | Scale 1:1.2

Code

DHF 2015SM

## Parallel Pin

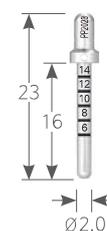
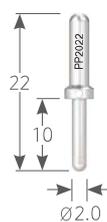
**K** D Ø2.0

Unit mm | Scale 1:1

Code

PP 2022

PP 2023



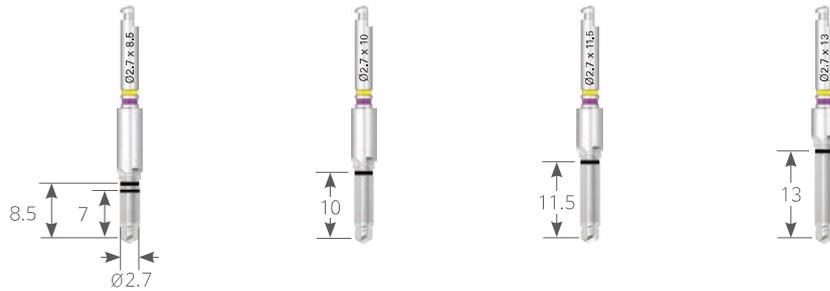
# Surgical Tool

## Drill

**K** D Ø2.7

Unit mm | Scale 1:1

Code	DSU 2708M	DSU 2710M	DSU 2711M	DSU 2713M
------	-----------	-----------	-----------	-----------



## Tap Drill

**K**

Unit mm | Scale 1:1

Fixture Size	Ø3.0	Ø3.3
Code	UNTD 3015	UNTD 3315



## Fixture Driver

- Maximum Tightening Torque : 50Ncm
- Drill lifespan : 20 oseotomies

● Sold separately

**K**

Unit mm | Scale 1:1

Type	Machine			Ratchet		
Code	UNFDC 3006	UNFDC 3012	UNFDC 3018	UNFDW 3006	UNFDC 3012	UNFDC 3018



# Screw Driver

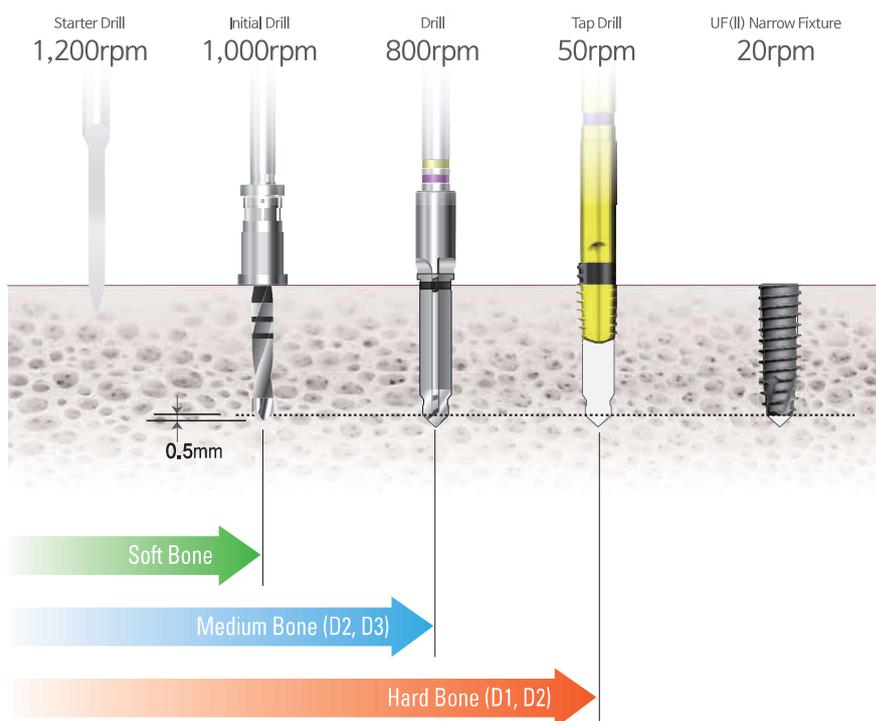
**K** Hex 1.2

Unit:mm | Scale 1:1

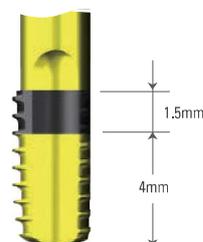
Type	Machine	Ratchet
Code	MD 1230	HD 1220A



# Surgical Protocol



Tap Drill

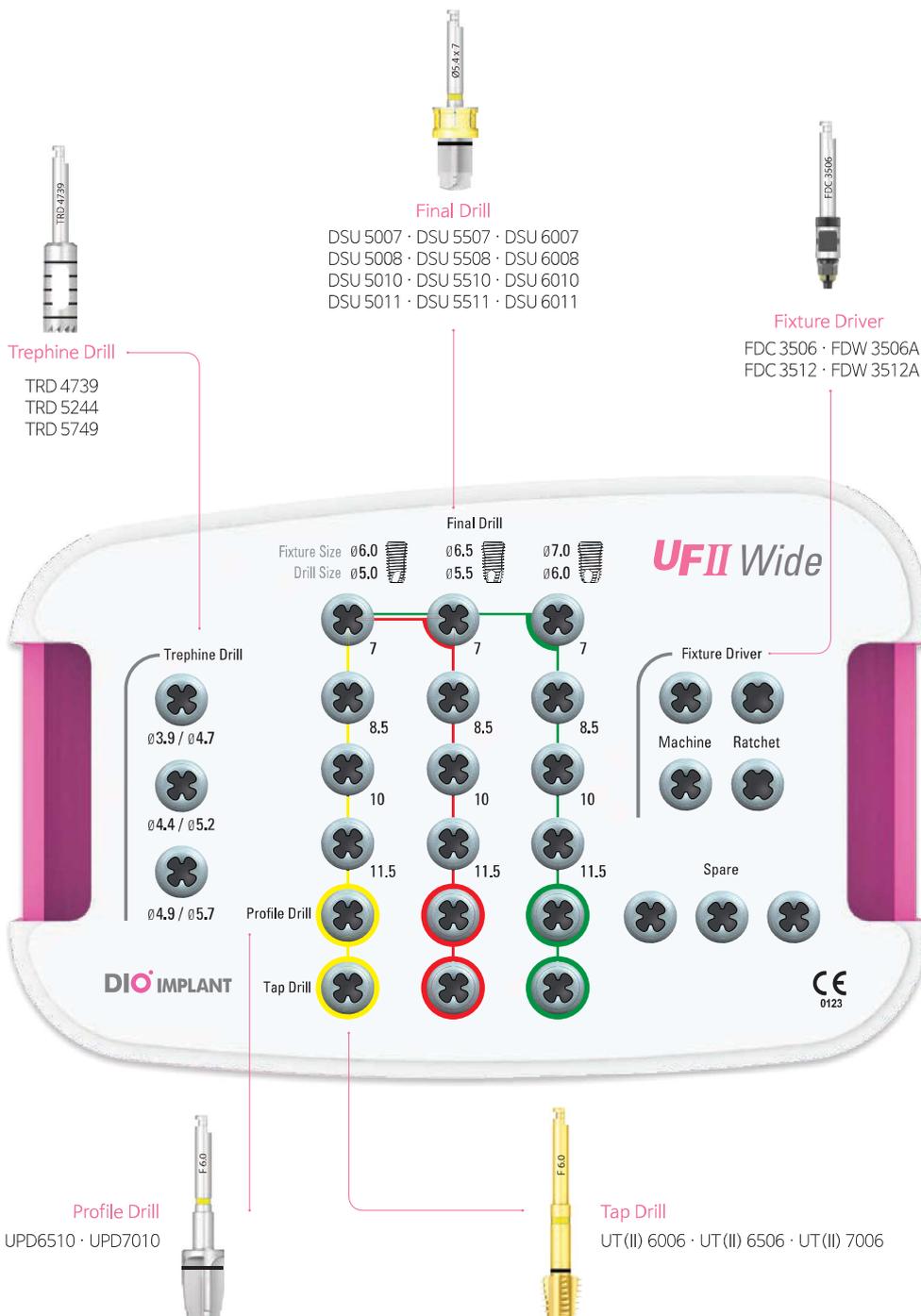


• Tightening torque : 20~40Ncm  
Maximum tightening torque : 50Ncm

# UFII Wide Kit Kit Code I UF 09

- Kit composed of drill with outstanding cutting force and durability, etc.
- UF(II) Wide  $\varnothing 6.0$   $\varnothing 6.5$   $\varnothing 7.0$  Fixture

Unit mm | Drill Scale 1 : 0.9



# Surgical Tool

## Trephine Drill



Scale 1 : 1.15

**K**

Unit mm | Scale 1 : 1

Code	TRD 4739	TRD 5244	TRD 5749
------	----------	----------	----------



Diameter 1	Ø3.9	Ø4.4	Ø4.9
Diameter 2	Ø4.7	Ø5.2	Ø5.7

## Profile Drill



Scale 1 : 1.15

**K**

Unit mm | Scale 1 : 1

Fixture Size	Ø6.0	Ø6.5	Ø7.0
Code	UPD 6010	UPD 6510	UPD 7010



Color	●	●	●
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# Surgical Tool

## Final Drill



● Sold separately

### **K** D Ø5.0

Unit mm | Scale 1:1

Code	DSU 5007	DSU 5008	DSU 5010	DSU 5011	DSU 5013	DSU 5015
Length	7	8.5	10	11.5	13	15

### **K** D Ø5.5

Code	DSU 5507	DSU 5508	DSU 5510	DSU 5511	DSU 5513	DSU 5515
Length	7	8.5	10	11.5	13	15

### **K** D Ø6.0

Code	DSU 6007	DSU 6008	DSU 6010	DSU 6011	DSU 6013	DSU 6015
Length	7	8.5	10	11.5	13	15

## Tap Drill

<b>K</b>	Unit mm   Scale 1 : 1		
Fixture Size	Ø6.0	Ø6.5	Ø7.0
Code	UT(II) 6006	UT(II) 6506	UT(II) 7006



Color



## Fixture Driver

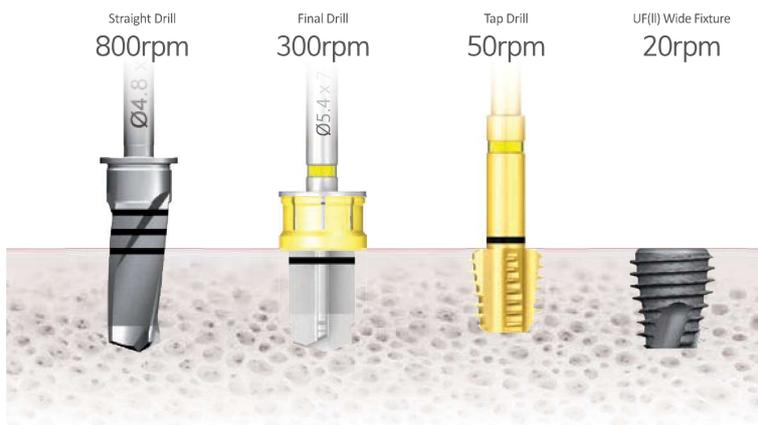
<b>K</b> D Ø2.7	Unit mm   Scale 1 : 1			● Sold separately		
Type	Machine			Ratchet		
Code	FDC 3506	FDC 3512	<b>FDC 3518</b>	FDW 3506A	FDW 3512A	<b>FDW 3518A</b>



## Surgical Protocol

Fixture Length 7mm

Extraction Socket & Replace failed Implant



# General principles of surgical tool management

1/ Because all surgical tools are provided in a non-sterile condition, they must be cleansed and sterilized before use.

**Caution**

**Wrong cleansing and sterilizing process causes corrosion and damage to the tools and if used directly, it may be the cause of 2nd infection.**

2/ The recommended number of use of a drill is 20-30 times based on the bone status, and it must be replaced if the blade has been damaged or transformed.

**Caution**

**If damaged drill is used, Heat Necrosis may occur**

3/ When managing the surgical tool, one must wear a mask and a glove to prevent infection.

### Before sterilization

1/ To prevent contaminants such as blood, tissue cell or bone residue from attaching to the surface of the instruments, the instruments must be immersed in an antiseptic solution right after use.

2/ When using antiseptic solution, to prevent corrosion or bronzing, one must follow directions given by the manufacturer of the concentration of the antiseptic and the duration of the instrument immersion in the antiseptic.

**Check**

**Concentration : completely liquefy the concentrate before placing the instruments in the antiseptic solution.**

**Immersion Duration : The instruments must not be immersed more than a day**

3/ The instruments must be fully immersed in the antiseptic solution.

4/ For a decrease in sterilizing power and to prevent corrosion, the antiseptic solution must be replaced every day.

### Before rinse

To prevent protein from clotting in 45 degrees temperature Celsius, the instruments must be rinsed in running cold water.

**Caution**

**Cleanse the instruments right after preliminary rinse**



## 1 Sterilization

1/ Must only use antiseptic solution that is FDA and CE approved, and you must follow the manufacturer's directions

2/ When cleansing metal instruments, corrosion free antiseptic solution and cleansing product use is recommended.

3/ For safety, one must always wear personal protection gear such as gloves, glasses, and masks.

4/ The user has an obligation to be responsible for the sterilization and management of the instrument.

5/ Restriction and limitation of the instrument reuse:

- With repetition of cleansing, the life expectancy of all instruments will decrease. If the instruments show corrosion, transformation or discoloring of the marking area, it means that they have exceeded the safety criteria that is required for use.

- Product with a disposable mark cannot be reused.
- Tungsten carbide burs, plastic composition and NiTi instruments can be damaged with hydrogen peroxide, and aluminum material instruments can be damaged by caustic soda solution.

- Acid solution (pH < 6) and alkaline solution (pH > 8) must not be used.



**Caution**

**After use, if the contaminants such as residual bone or blood stain are not completely removed, it may lead to corrosion; therefore all separable instruments must all be disassembled before the cleansing process.**

## 2 Cleanse / Dry

1/ Contaminants must be completely removed using a soft brush.

**Do not use a wire brush or stainless material brush, and do not put too much pressure.**

2/ Immerse the products in the antiseptic solution of their characteristics and clean with an ultrasonic cleaner.

**However, do not cleanse the different materials together. Also, when immersing the instruments in the ultrasonic cleaner, make sure that the instruments do not touch each other.**

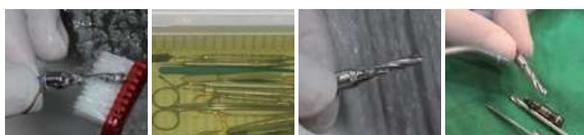
3/ Make sure that debris is not seen with the naked eye.

- **Products that are fractured or transformed must be discarded.**
- **One should follow the recommendations for the level of concentration or the length of time provided by the manufacturer.**
- **The antiseptic solution must not include aldehyde, di- or tri-ethanolamines component to control the corrosion.**

- After cleaning, the products must be rinsed with distilled water or deionized water for at least a minute.

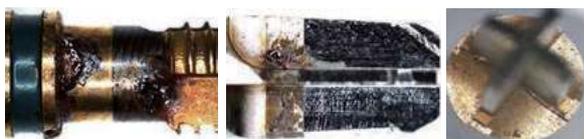
**If the antiseptic solution contains corrosion inhibitor, rinsing before placing in the sterilizer is recommended.**

- To prevent corrosion or water stain on the instruments, completely dry with a dryer or filtered compressed air
- To prevent corrosion, decrease in sterilizing power, and contamination, antiseptic must be supplemented every day.



#### Caution

If the instruments are not properly rinsed, residue is left behind, or is not properly dried, the sterilization process might discolor or corrode the instruments, and therefore the whole process must be gone through again.



#### Caution

Corrosion may start if debris such as blood stain or bone residue is not completely removed. They must be cleansed right after use and the debris must be completely removed when cleaning.

#### Check

Check on the instruments for faults (fracture, transformation, or corrosion).

If necessary, assemble the instruments.

Contaminated instruments must be cleansed or disinfected. Transformations that may affect the safety, performance or tolerance of the instruments; in other words; bent, damaged (fractured, corroded), or faulty products (discoloration of marking area, Loss) must be destroyed.

### 3 Packaging

- Check on the dry status of the instruments and pack in the sterilized wrapping paper.
- On the sterilized wrapping paper, attach a direction tape to check the date of sterilization. Check on the expiration date on the sterilized wrapping paper. Wrapping paper must be able to withstand up to 141 degrees that coincides with the EN ISO 11607.

### 4 Pasteurization

- Pasteurization process must follow the sterilizer equipment manufacturer. ※ **4- 18 minutes in 134°C for autoclave sterilization.**
- Instruments and plastic components must be sterilized based on their packaging label.
  - Sterilizer must coincide with the requirements of EN 13060 and EN285.
  - Sterilization process must regard the ISO 11607.
  - One must follow the sterilization process and maintenance process of the sterilizer provided by the manufacturer.
  - Efficiency management (Proper packaging, no humidity, change in color of the sterilization dashboard)

#### Caution

- The products must not touch the inner part of the sterilization equipment, and the sterilization degree must be lower than 150°C
- The products that were not properly cleansed or dried may generate corrosion. If they were not cleansed, not properly dried or corroded, separate them from the rest or remove the faults. (Do not sterilize the corroded instruments with the noncorroded products together)
- For sterilization, use only salt-free water or distilled water for the solution. (Do not use tap water)
- Check if the instruments are fully dried, and do not leave them in a place with high moisture.

### 5 Storage

Instruments must be stored in a sterilized container in a dry and clean environment. If the packaging is opened or damaged, we cannot guarantee the instruments' sterilization status.

# Sales Network

## 70

Exporting to about 70 countries around the world

With excellent and competitive products proven by various export tower awards, products of DIO are sold in about 70 countries in the world.

## 7

Founded 7 overseas subsidiaries

DIO will grow into global top 3 by launching local subsidiaries in the United States, Japan, China, Taiwan, Mexico, Australia and Iran.

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