UFⅡ SYSTEM Products Guide Ver.4_E

UFⅡ Narrow System

UFⅡ Regular System

UFⅡ Wide System

DIO IMPLANT

DIO

Make your life more abundant,
Make your tomorrow more happier

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

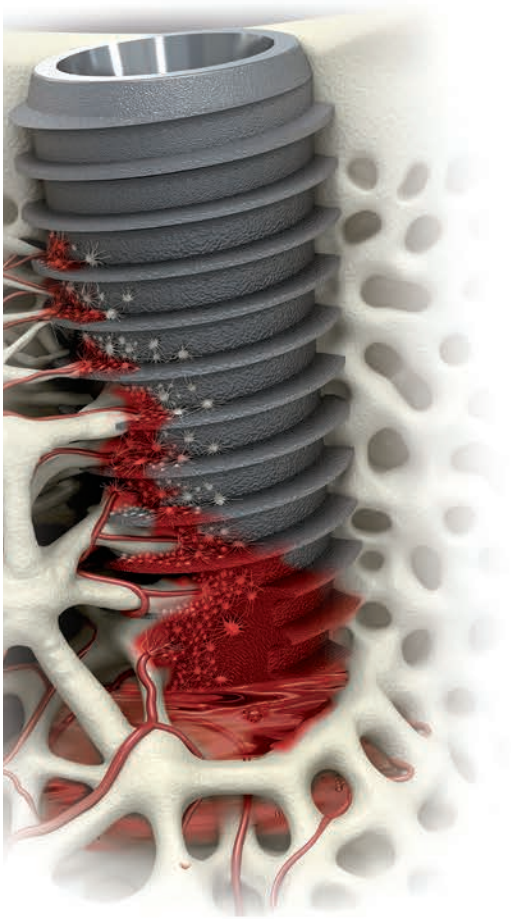
UFⅡ System Products Guide Ver.4_E

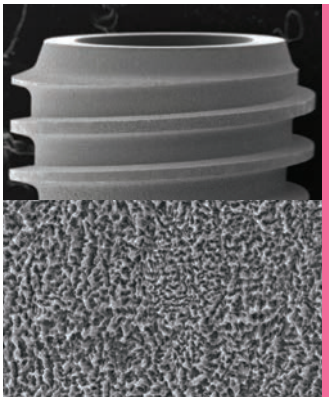
UFⅡ Internal Submerged System

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

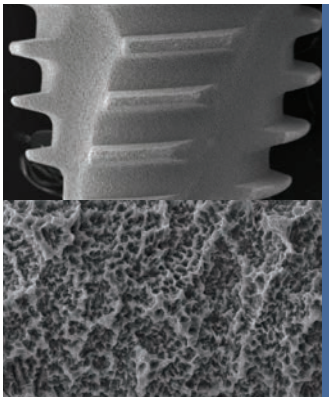




Upper / Micro Surface

Ra : 0.5~1.0㎛
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㎛
(Management standard 1.5~2.5㎛)
Stimulate Osseointegration

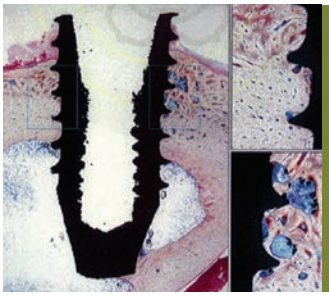
- Fast osseointegration and long-term stability are provided.

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_3 and TiO_2 based on the amount of oxygen bonded. TiO_2 is known as the most stable phase. Roughness on micro level of 1~10㎛ has been reported1) 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.2) reported that a hemispherical pit with 1.5㎛ depth and 3~5㎛ diameter is optimal.

1) Abron A, Hopfensperger M, Thompson J, Cooper LF. Evaluation of a predictive model for implant surface topofraphy effects on early osseointefration 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.



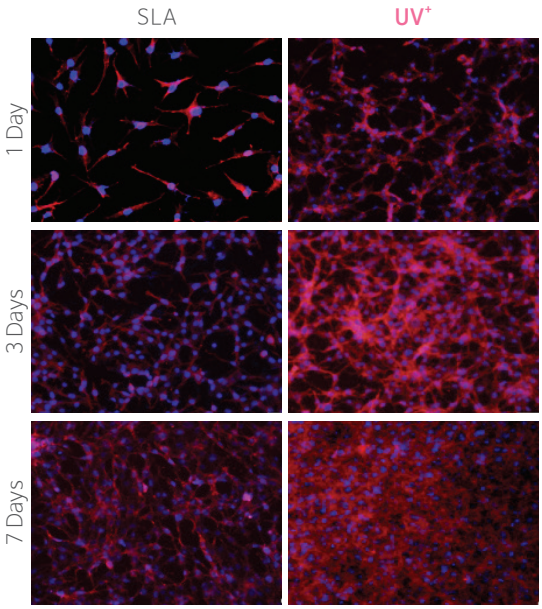
Animal experimentation result
BIC : 75.9%

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

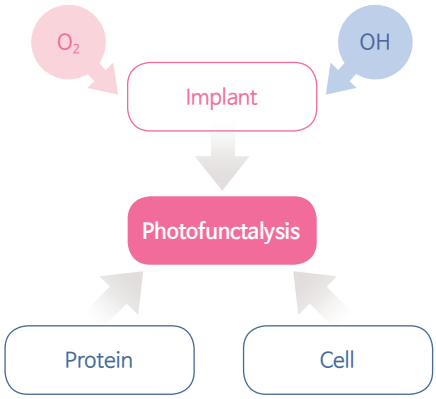
UV+ Photofunctionalized HSA

Superhydrophobic surface using photofunctalysis

- Biological aging phenomenon in which surface of implant is contaminated by hydrocarbon and organic matter to disrupt osseointegration is resolved by photofunctalysis, which makes the surface clean without contaminants.
- Oxygen concentration of TiO_2 increases on the surface. Cells and proteins actively react with oxygen due to superhydrophobic effect of OH radical, thus increasing the rate of osseointegration.



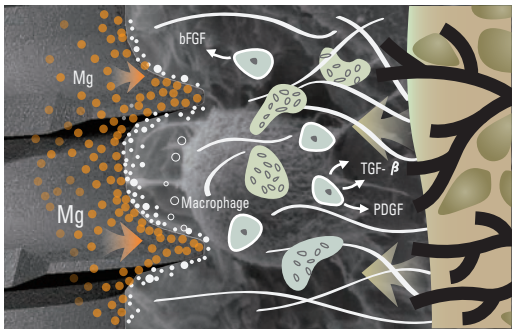
X 200

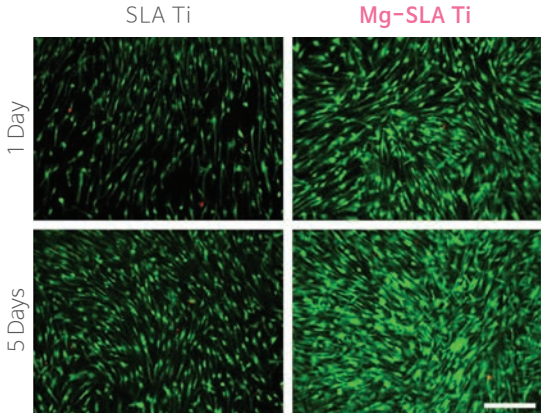


Mg+ HSA & Mg Plasma

Strong bioactivation mechanism

- Mg^{2+} ions move to the implant surface, or Mg^{2+} ions move through ion-exchange reaction with Ca^{2+}ions in the body fluid.
- Movement of Mg^{2+} 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, Thrombospodis, Fibronectin, Vitronectin, Osteocalcin, Osteonectin and BAG-75.
- Chemical bonding of bone morphogenic proteins (BMPs) on the implant surface triggers and facilitates osseointegration around implant.

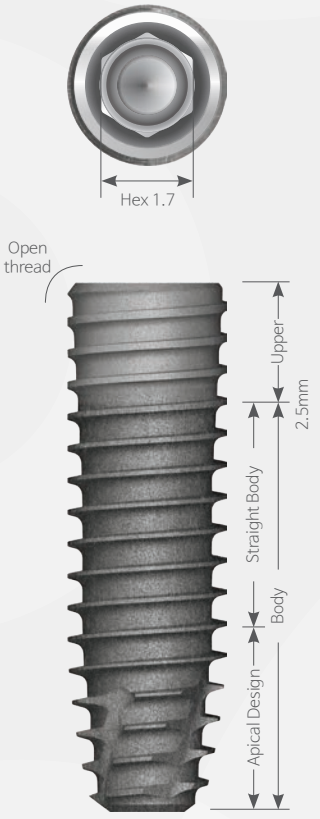




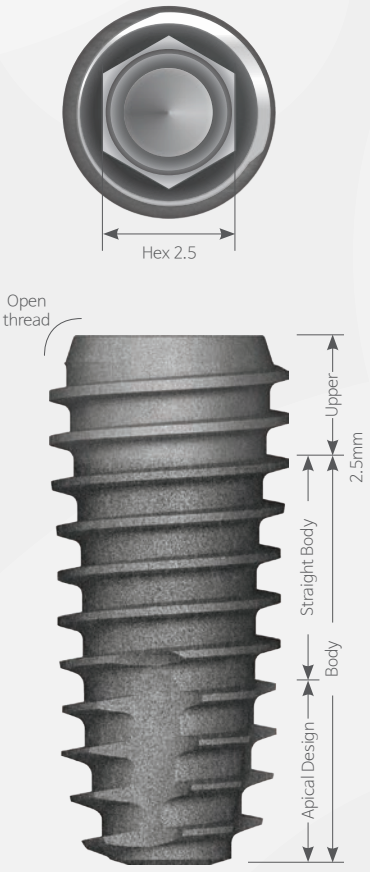
Live/dead fluorescence imaging of human mesenchymal stem cells (hMSCs) cultured on sandblasting and acid etching (SLA)-treated titanium (SLA Ti) and Mg ion-implanted SLA Ti (Mg-SLA Ti) specimens in normal growth media.
The viability/cytotoxicity assay was performed after 1 day and 5 days of culture.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

UFⅡ Int. Submerged System

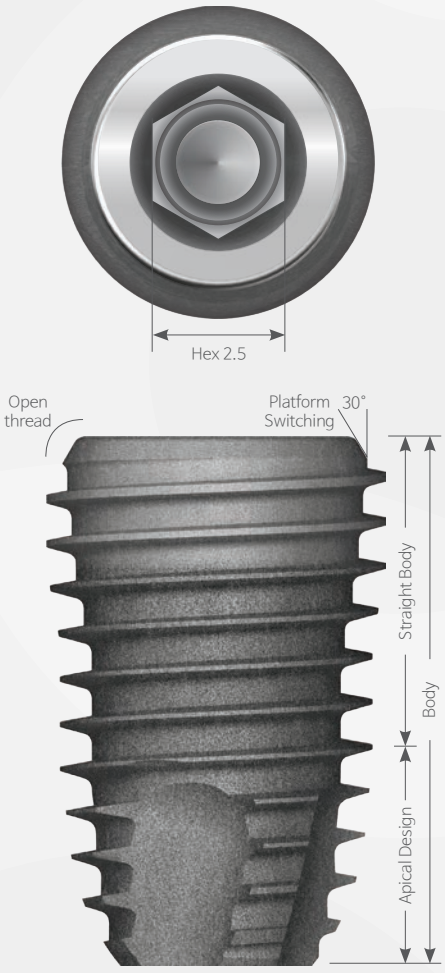
UFⅡ Narrow



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 lessees 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.

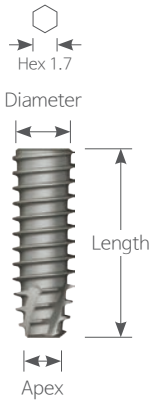
Open Thread
During placement of the fixture, it can be placed deep without additional drilling by minimizing resistance.

Cutting Edge
Self-tapping is maximized by sharp edge.

UFⅡ Narrow

D Ø3.0 | Ø3.3
L 8.5 | 10 | 11.5 | 13 | 15

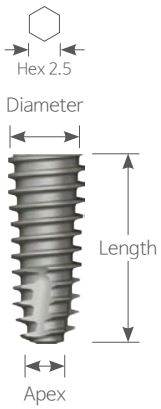
HSA | UV Active



UFⅡ Regular

D Ø3.8 | Ø4.0 | Ø4.5 | Ø5.0 | Ø5.5
L 7 | 8.5 | 10 | 11.5 | 13 | 15 | 16 | 18

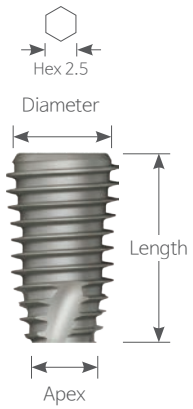
HSA | UV Active | Mg+
※Korea only



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 I 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^+	–	UF(II) 3808MG	UF(II) 3810MG	UF(II) 3811MG	UF(II) 3813MG	UF(II) 3815MG	UF(II) 3816MG	UF(II) 3818MG
UV^+	–	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^+	–	UF(II) 4008MG	UF(II) 4010MG	UF(II) 4011MG	UF(II) 4013MG	UF(II) 4015MG	UF(II) 4016MG	UF(II) 4018MG
UV^+	–	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^+	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^+	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^+	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^+	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+	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+	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 I 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+	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

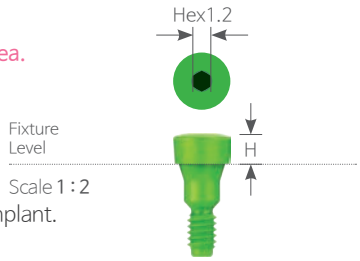
Length	7	8.5	10	11.5	13	15
						
HSA	UF(II) **6507S**	UF(II) **6508S**	UF(II) **6510S**	UF(II) **6511S**	UF(II) **6513S**	UF(II) **6515S**
UV+	UF(II) **6507UV**	UF(II) **6508UV**	UF(II) **6510UV**	UF(II) **6511UV**	UF(II) **6513UV**	UF(II) **6515UV**

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+	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



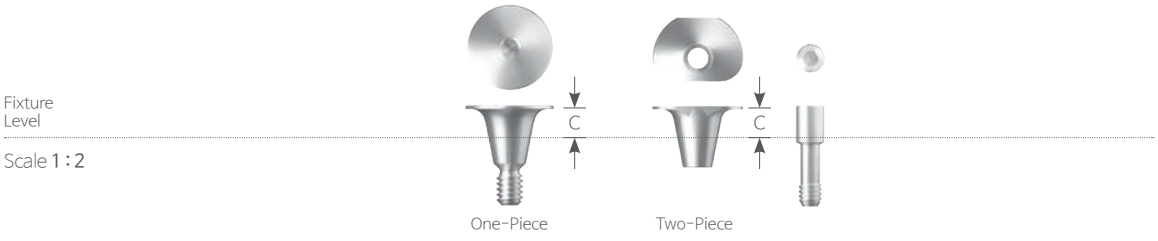
N R W Hex 1.2

Unit mm I 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.



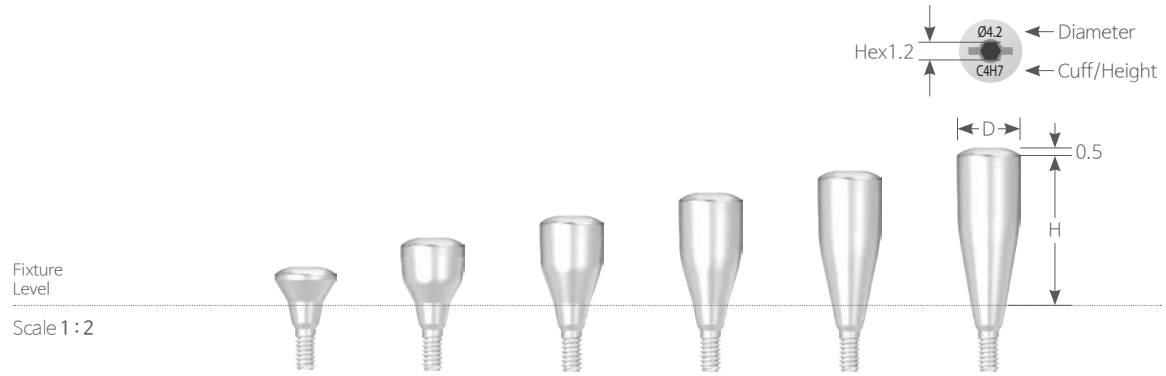
R

Unit mm I 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



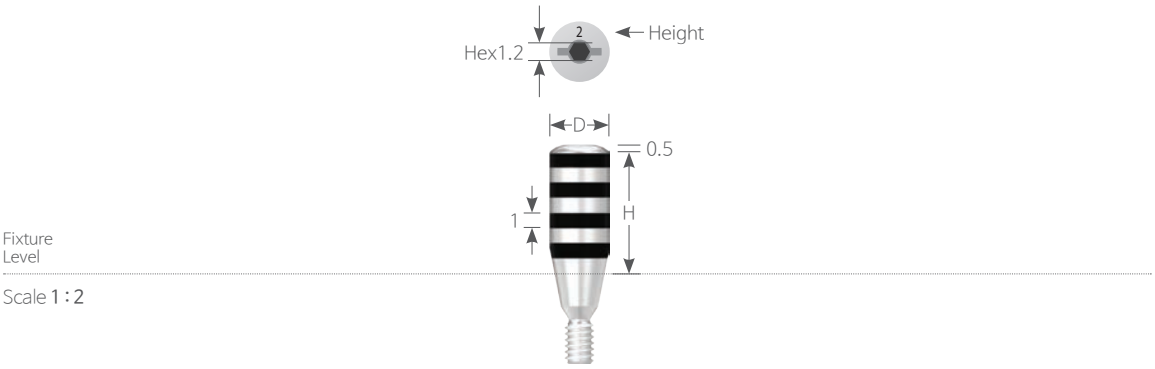
N Hex 1.2

Unit mm I 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



Scale 1 : 2

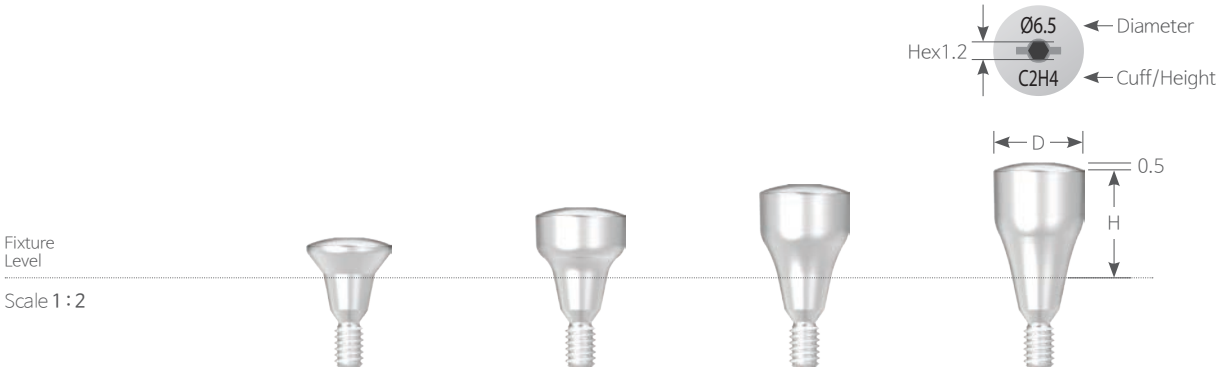
R W D Ø4.0 Hex 1.2

Unit mm I Scale 1 : 1.25

Fixture Size	Regular · Wide			
Heigth	2	4	6	8

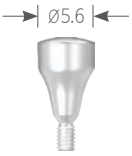
SSHA **4020** SSHA **4040** SSHA **4060** SSHA **4080**

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



R W Hex 1.2

Unit mm I Scale 1 : 1.25

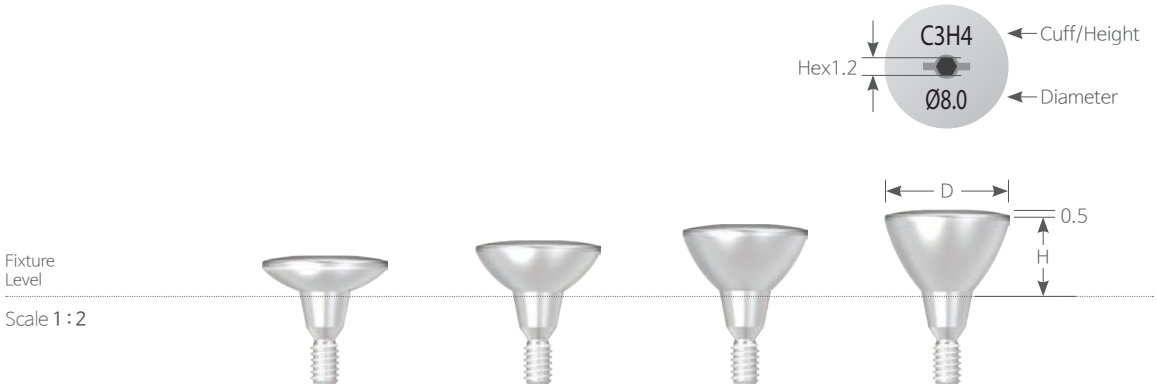
Fixture Size	Regular · Wide			
	 Ø4.6	 Ø5.6	 Ø6.6	 Ø7.6
Height 2	SSHA **4520**	SSHA **5520**	SSHA **6520**	SSHA **7520**
4	SSHA **4524**	SSHA **5524**	SSHA **6524**	SSHA **7524**
5.5	SSHA **4535**	SSHA **5535**	SSHA **6535**	SSHA **7535**
7	SSHA **4547**	SSHA **5547**	SSHA **6547**	SSHA **7547**

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 I Scale 1 : 1.25

Fixture Size	Regular · Wide	
		
Height 2	SSHA **8212**	SSHA **9212**
3	SSHA **8223**	SSHA **9223**
4	SSHA **8234**	SSHA **9234**
5	SSHA **8245**	SSHA **9245**

Cement / Screw - Retained Restorations

Temporary / Cemented / Anlged / UCLA Abutment

Fixture - N R W

Abutment Screw

Temporary Abutment
051P

Cemented Abutment
052P

Angled Abutment
055P

UCLA CCM Abutment
056P

Fixture Analog
051P

Pick-up Impression Coping
049P

Transfer Impression Coping
050P

UF(II) Narrow
039P

UF(II) Regular
040P

UF(II) Wide
041P

Cover Screw
042P

Healing Abutment
043P

Cement / Screw - Retained Restorations

Mill / UCLA Abutment

Fixture - R W

Abutment Screw

Mill Abutment
054P

UCLA Gold Abutment
057P

UCLA Plastic Abutment
057P

Fixture Analog
051P

Pick-up Impression Coping
049P

Transfer Impression Coping
050P

UF(II) Regular
040P

UF(II) Wide
041P

Cover Screw
042P

Healing Abutment
043P

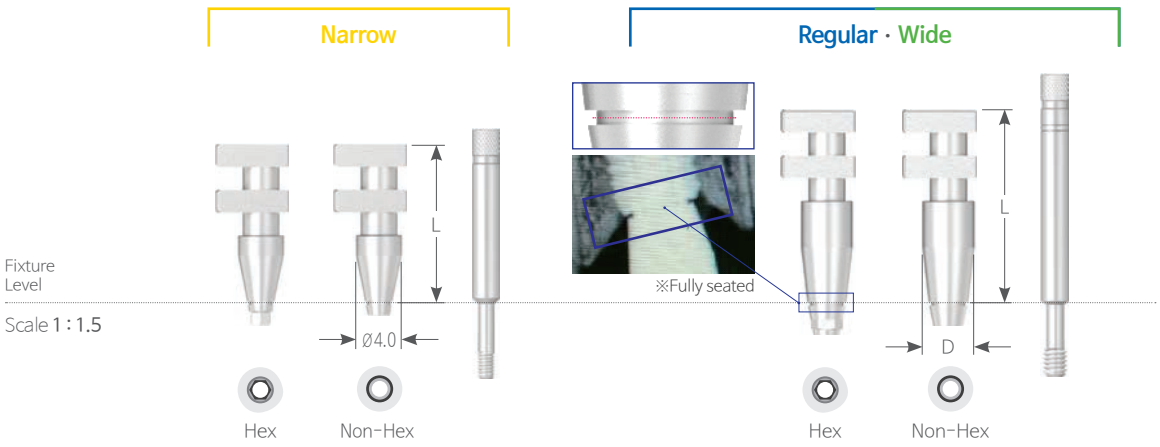
Abutment Components

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

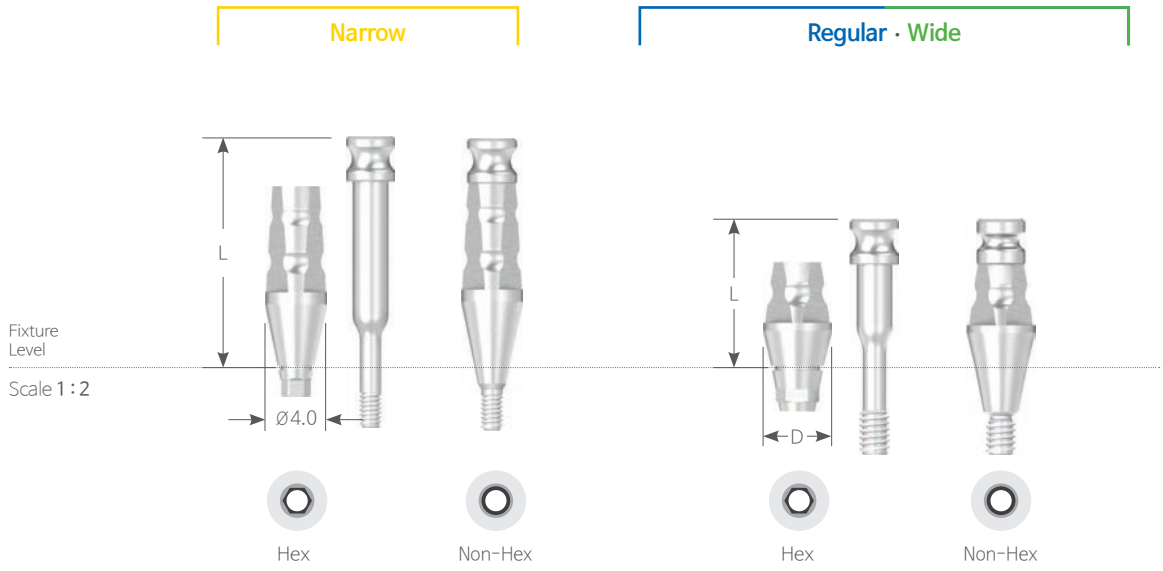
Fixture Size	Narrow		Regular · Wide				
Diameter	Ø4.0	Guide Pin	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Guide Pin
Length 09	-	-	SSPI **4009N**	SSPI **4509N**	SSPI **5509N**	SSPI **6509N**	SSG **2021**
12	UNSPI **4012N**	UNSSG **1422**	-	-	-	-	-
13	-	-	SSPI **4013N**	SSPI **4513N**	SSPI **5513N**	SSPI **6513N**	SSG **2026**
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	-	-	SSTI **4010H**	SSTI **4510H**	SSTI **4015S**	SSTI **5510H**	SSTI **6510H**	SSTI **6515S**
13	UNSTI **4013H**	UNSTI **4013S**	-	-	-	-	-	-
15	UNSTI **4015H**	UNSTI **4015S**	SSTI **4015H**	SSTI **4515H**	SSTI **4020S**	SSTI **5515H**	SSTI **6515H**	SSTI **6520S**
17	UNSTI **4017H**	UNSTI **4017S**	-	-	-	-	-	-

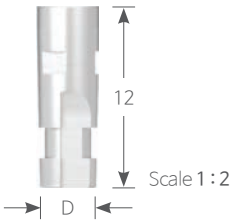
N R W Non-Hex

Unit mm

Fixture Size	Narrow	Regular · Wide			
Diameter	Ø4.0	Ø4.0	Ø4.5	Ø5.5	Ø6.5
Length 10	-	SSTI **4010N**	SSTI **4510N**	SSTI **5510N**	SSTI **6510N**
13	UNSTI **4013N**	-	-	-	-
15	UNSTI **4015N**	SSTI **4015N**	SSTI **4515N**	SSTI **5515N**	SSTI **6515N**
17	UNSTI **4017N**	-	-	-	-

Fixture Analog

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



N R W Length 12

Unit mm I Scale 1 : 1.25

Fixture Size	Narrow	Regular · Wide
Diameter	Ø3.0	Ø4.0

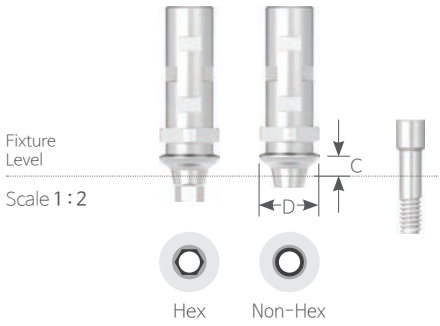
UNSFA **3012**

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 I Scale 1 : 1.25

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




Cuff 1	UNSTA **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**

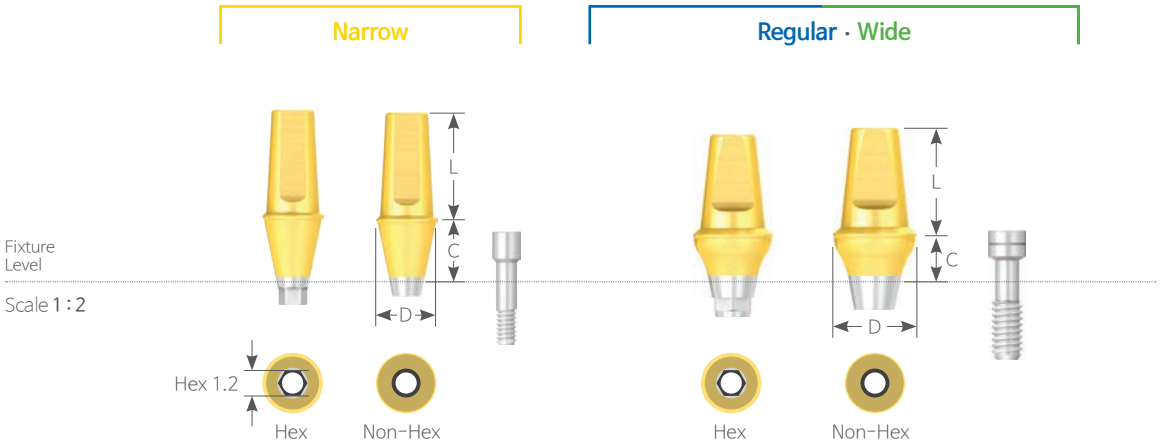
Cemented Abutment Hex Non-Hex

▸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

N R W Hex

Unit mm I 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 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	-	SSC 2008SH	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	SSC 2008SH	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	SSC 2008SH	SSC 2008H	SSC 2008H	SSC 2008H



N R W Non-Hex

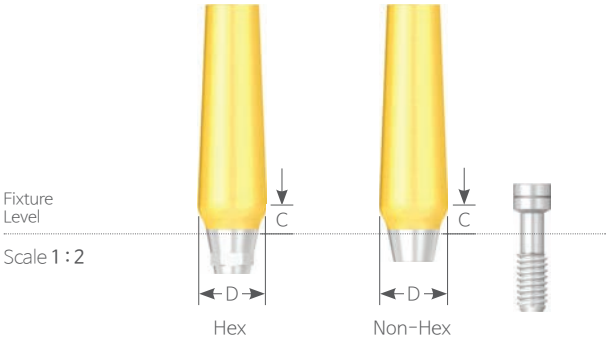
Unit mm I Scale 1 : 1.25

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	UNSAS **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	UNSAS **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 I 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 I Scale 1 : 1.25

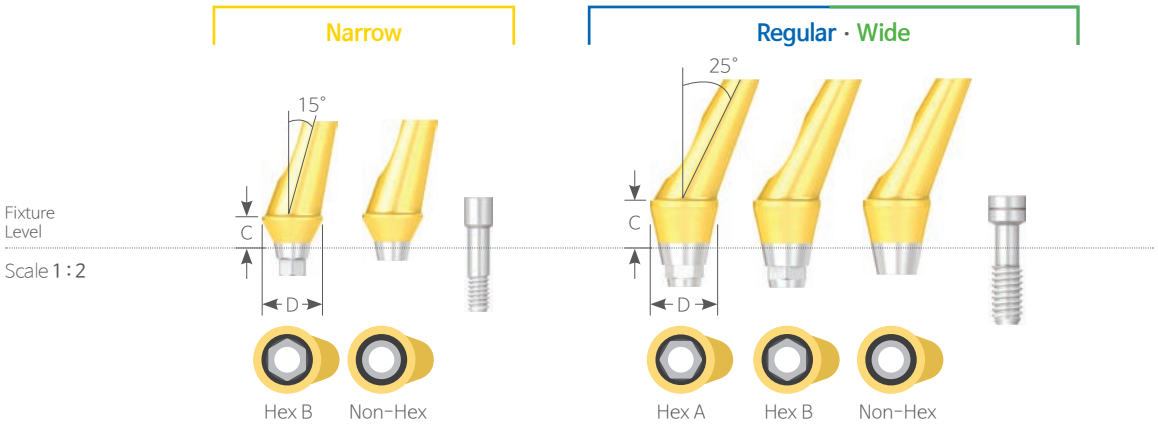
Fixture Size	Regular · Wide				
Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5
Cuff	1.5	2	2.5	3	3

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	UNSAA 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	UNSAA 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]

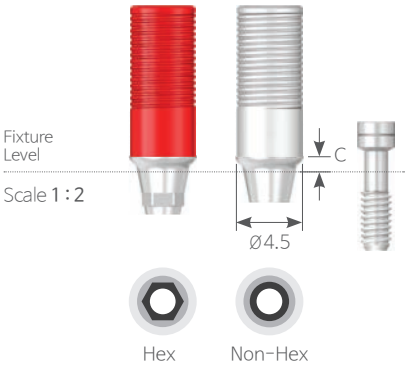
N R W Non-Hex

Fixture Size	Narrow	Regular · Wide			
Cuff 1.5	-	SSAA 451515N[H]	SSAA 451525N[H]	SSAA 551515N[H]	SSAA 551525N[H]
2.0	UNSAA 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	UNSAA 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℃
(**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



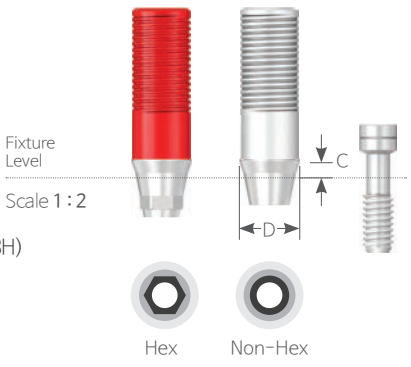
R W D Ø4.5

Unit mm I Scale 1 : 1.25

Fixture Size	Regular · Wide	
Type	Hex	Non-Hex
		
Cuff 1	SSGA **4510H [H]**	SSGA **4510N [H]**
3	SSGA **4530H [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



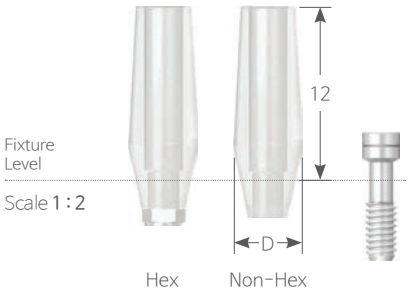
N R W

Unit mm I 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	UNSCCA **4010H**	UNSCCA **4010N**	CCSS **4010H [H]**	CCSS **4010N [H]**	CCSS **4510H [H]**	CCSS **4510N [H]**
3	UNSCCA **4030H**	UNSCCA **4030N**	-	-	CCSS **4530H [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 I Scale 1 : 1.25

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

SSPA **4512H [H]** SSPA **4512N [H]** SSPA **5512H [H]** SSPA **5512N [H]**

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

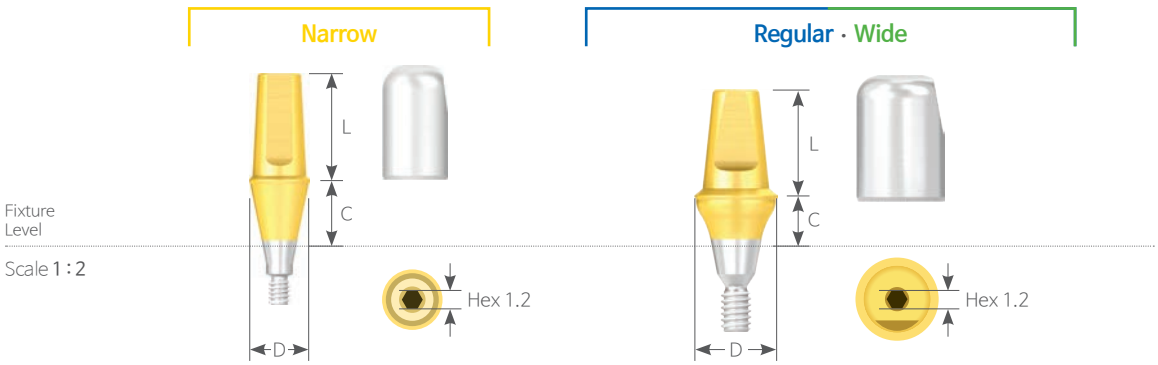
Healing Abutment

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
· Uses1.2 Hex Driver / Solid Abutment Driver
· Packing Unit : Abutment + Protect Cap
· Tightening Torque : N 20Ncm, R W 30~35Ncm



N R W

Unit mm I 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	-	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	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	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.

Narrow | Regular · Wide

N R W

Unit mm I Scale 1 : 2

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	UNSAC **4005**	SSAC **4505**	SSAC **5505**	SSAC **6505**	SSAC **7505**
7	UNSAC **4007**	SSAC **4507**	SSAC **5507**	SSAC **6507**	SSAC **7507**

Impression Cap

▸Used for taking impression of Solid abutment.

· Different coloring provides easy identification for abutment diameter.

· Convenient locking mechanism.

Scale 1 : 2

N R W Length 11

Unit mm I Scale 1 : 1.25

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

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

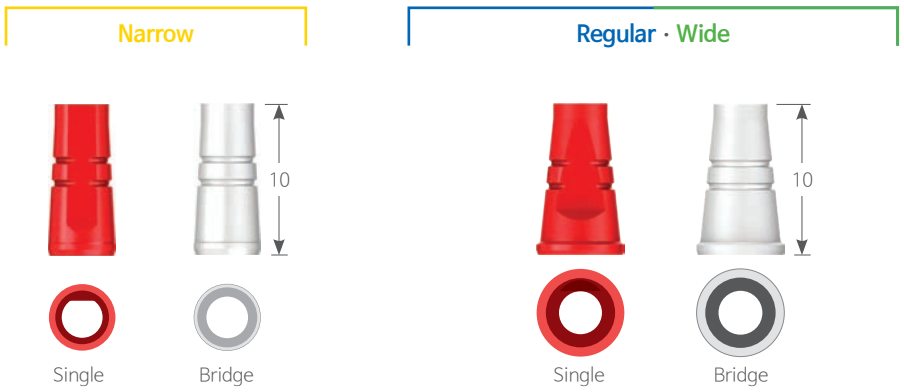
N R W

Unit mm I Scale 1 : 1.25

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



N R W Length 10

Unit mm I Scale 1 : 2

Fixture Size	Narrow	Regular · Wide			
Abut. Diameter	Ø4.0	Ø4.5	Ø5.5	Ø6.5	Ø7.5
● Single	UNSAP **4010S**	SSAP **4510S**	SSAP **5510S**	SSAP **6510S**	SSAP **7510S**
○ Bridge	UNSAP **4010B**	SSAP **4510B**	SSAP **5510B**	SSAP **6510B**	SSAP **7510B**

Screw-Retained Restorations

Octa Abutment

Fixture - R W

Cylinder Screw

Temporary Cylinder
065P

Cemented Cylinder
065P

Gold Cylinder
066P

Plastic Cylinder
066P

Octa Abutment Analog
064P

Pick-up
Impression Coping
064P

Transfer
Impression Coping
064P

Octa Abutment
063P

Healing Cap
063P

UF(II) Regular
040P

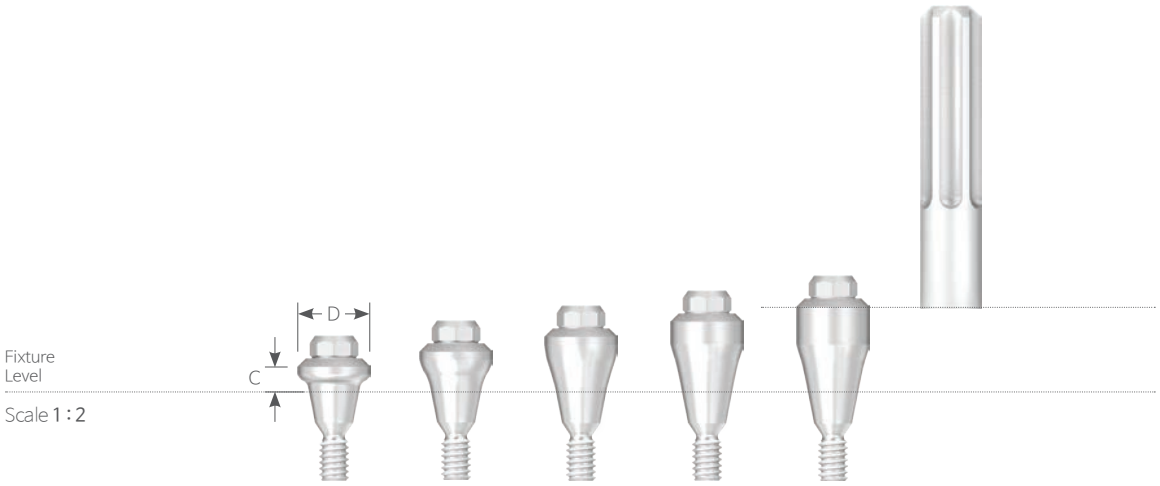
UF(II) Wide
041P

Cover Screw
042P

Healing Abutment
043P

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 I 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 I Scale 1 : 2

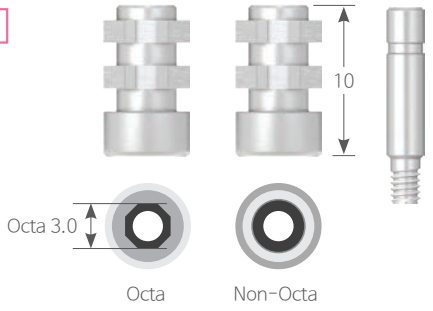
Fixture Size	Regular · Wide		
Abut. Diameter	Ø4.8	Ø6.0	Ø6.5
	HCI **48504**	HCI **60704**	HCI **65704**

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 (POI 2610)



R W Length 10

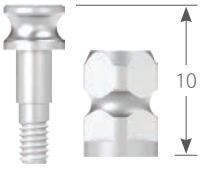
Unit mm I Scale 1 : 2

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)



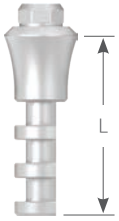
R W Length 10

Unit mm I 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.



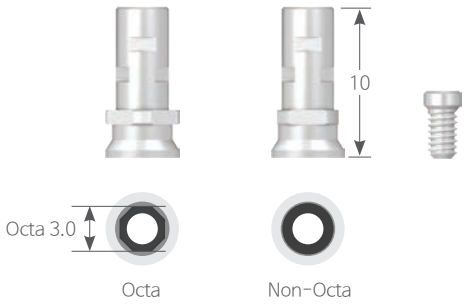
R W

Unit mm I 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



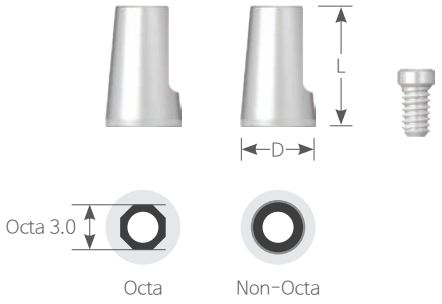
R W Length 10

Unit mm I 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



R W

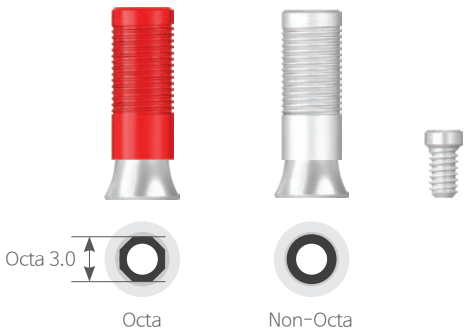
Unit mm I Scale 1 : 2

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



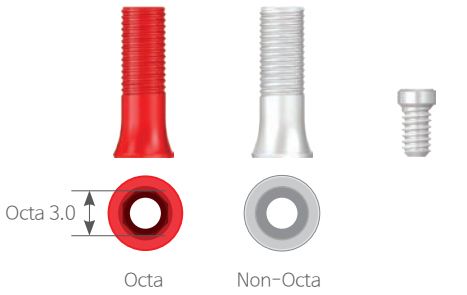
R W

Unit mm I 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 I 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

O-Ring
071P

Retainer
070P

Ball Cap
070P

Ball Abutment Analog
070P

Ball Abutment
069P

UF(II) Regular
040P

UF(II) Wide
041P

Cover Screw
042P

Healing Abutment
043P

Overdenture-Retained Restorations

Ball Abutment / Locator

Fixture - N R W

Stainless Steel Housing
071P

Denture Cap
073P

OT Cap
071P

Male
073P

Ball Abutment Analog
0708P

Ball Abutment
069P

Locator
073P

UF(II) Narrow
039P

UF(II) Regular
040P

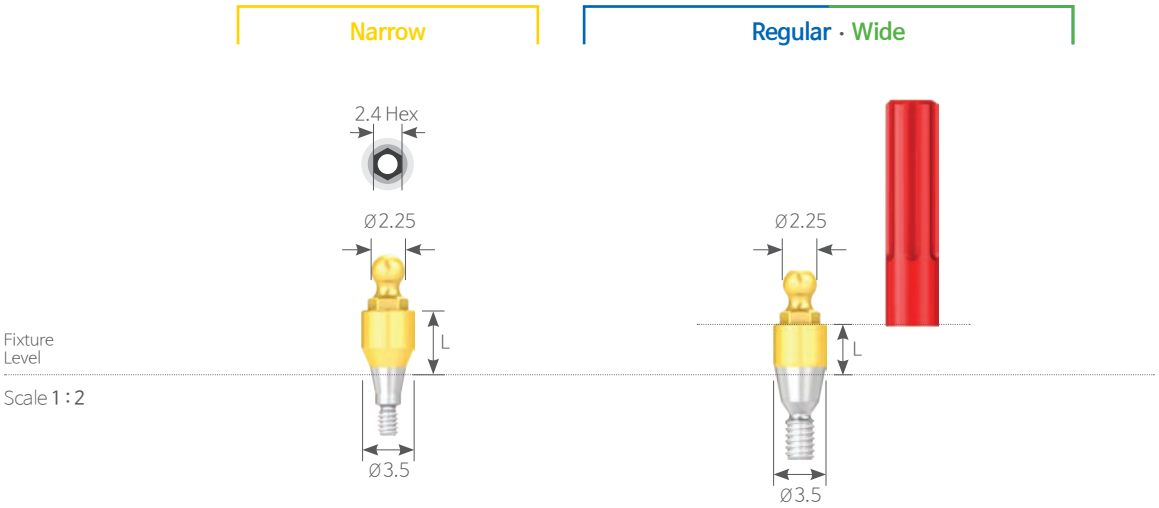
UF(II) Wide
041P

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 partis 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



N R W

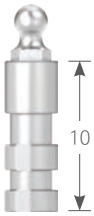
Unit mm

Fixture Size	Narrow	Regular · Wide
Diameter	Ø3.5	Ø3.5
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 Components

Ball Abutment Analog

▸Provides anchor point for ball abutment on working model.



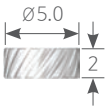
N R W Length 10

Unit mm I Scale 1 : 2

Fixture Size	Narrow	Regular · Wide
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 I Scale 1 : 2

Fixture Size	Narrow · Regular · Wide
	RT **0502**

Ball Cap

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

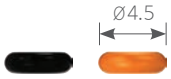
N R W **D Ø5.0** Length 4

Unit mm I Scale 1 : 2

Fixture Size	Narrow · Regular · Wide
	BC **5004**

O-Ring

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



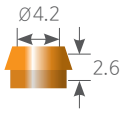
N R W D Ø4.5

Unit mm I Scale 1 : 2

Fixture Size	Narrow · Regular · Wide	
Color	OR **0450B** ● Black	OR **0450O** ● 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.



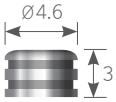
N R W D Ø4.2 Length 2.6

Unit mm I 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 I 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.

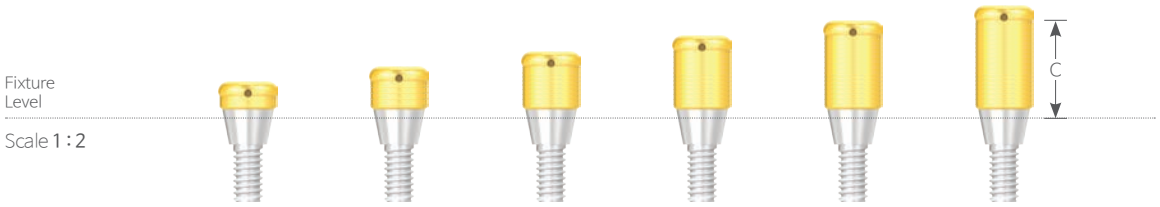
N R W

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



N R W

Unit mm I Scale 1 : 1.25

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
	LOC **8529**	LOC **8527**	LOC **8524**
Intensity	Weak	Intermediate	Strong

N R W Angled 40°

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

Male Pakage

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

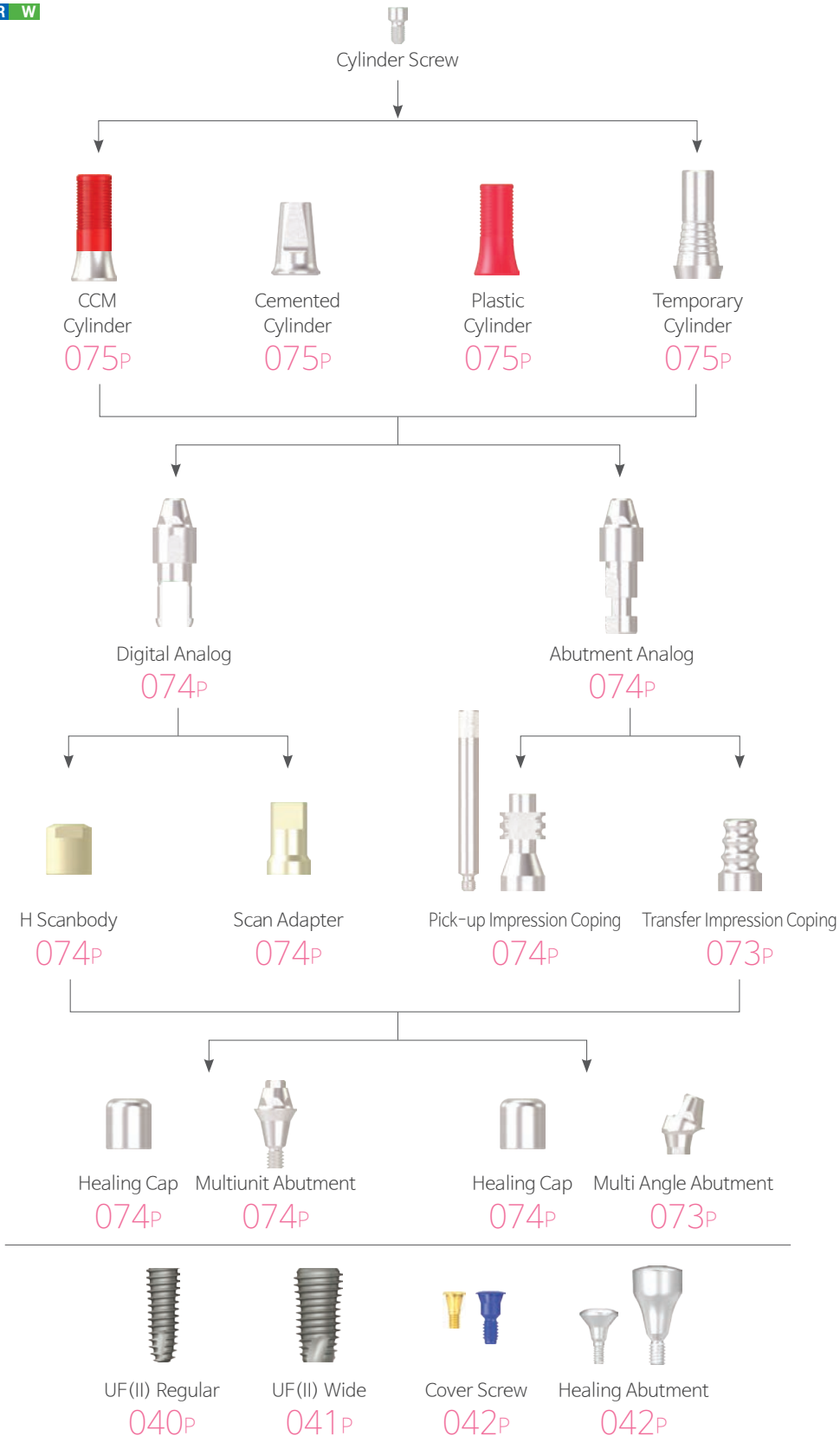
N R W

Type	2 Set
	08519-2

Screw-Retained Restorations

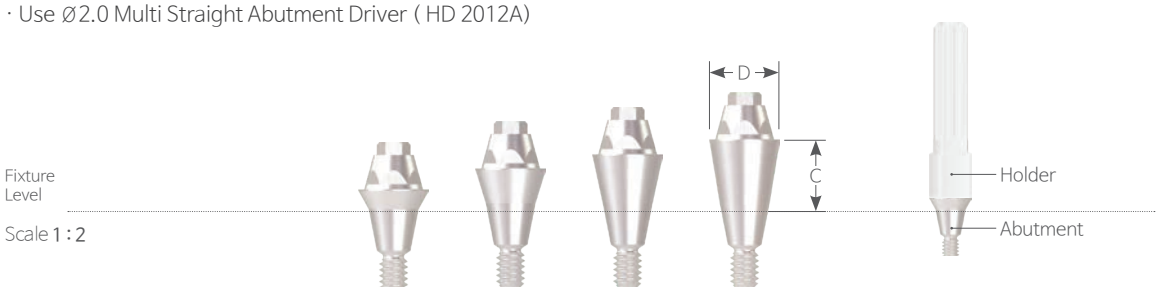
Multiunit Abutment

Fixture - R W



Muliunit Straight Abutment

· Screw-Retained type
· Tightening Torque : 30Ncm
· Packing unit : Multi Straight Abutment + Holder
· Use Ø2.0 Multi Straight Abutment Driver (HD 2012A)

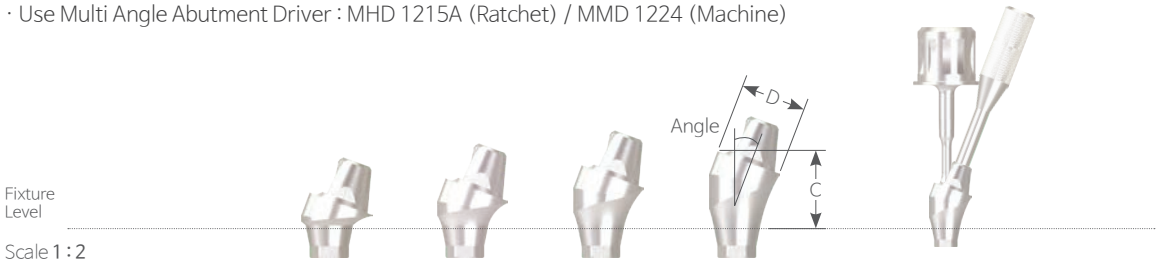


R W D Ø4.8 Hex 2.0 Unit mm

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)



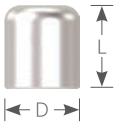
R W D Ø4.8 Hex Unit mm

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



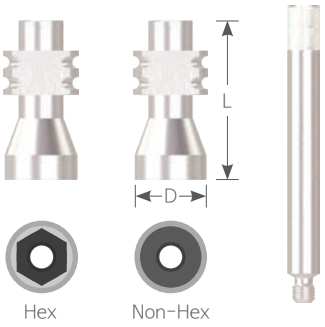
R W D Ø5.0 Length 5.5

Unit mm I Scale 1 : 2

Code	MHC **5005**

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 I 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

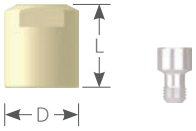
R W D Ø4.8 Length 8

Unit mm I 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)



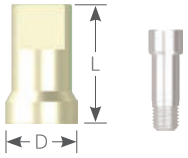
R W D Ø5.0 Length 5.6

Unit mm I 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 I 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)

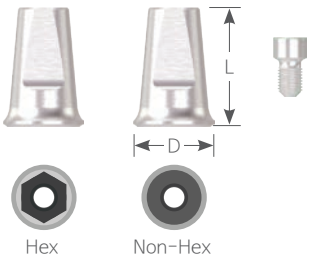
R W D Ø5.0 Length 12.6

Unit mm I 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

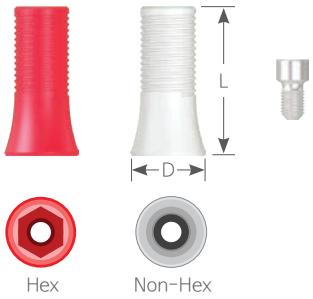
Unit mm I Scale 1 : 2

Type	Hex	Non Hex
	MCEM **5408H**	MCEM **5408N**

Multiunit 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)



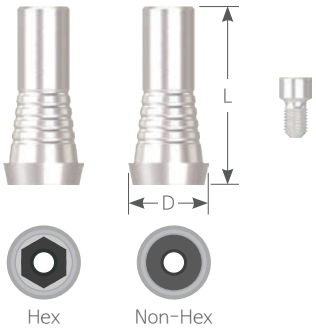
R W D Ø5.0 Length 10

Unit mm I 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)



R W D Ø5.4 Length 12

Unit mm I Scale 1 : 2

Type	Hex	Non Hex
	MTEM **5412H**	MTEM **5412N**

Cylinder Screw

R W Length 4

Unit mm I Scale 1 : 2

Code	MSC **1604**

Abutment Analog

· – Usage for laboratory fabricated Abutment level cast model

R W **D Ø4.8** Length 15

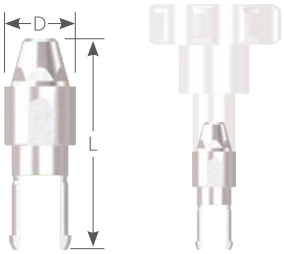
Unit mm I Scale 1 : 2

Code	MLA **4815H**

Digital Analog

· Usage for 3D Printing Model

Digital Lab Analog Jig



R W **D Ø4.8** Length 14.2

Unit mm I Scale 1 : 2

Code	MDA **4813**

Surgical Tool

Screw Driver

· Only use Multi Abutment

● Sold separately

K Hex 1.2

Unit mm I Scale 1 : 1

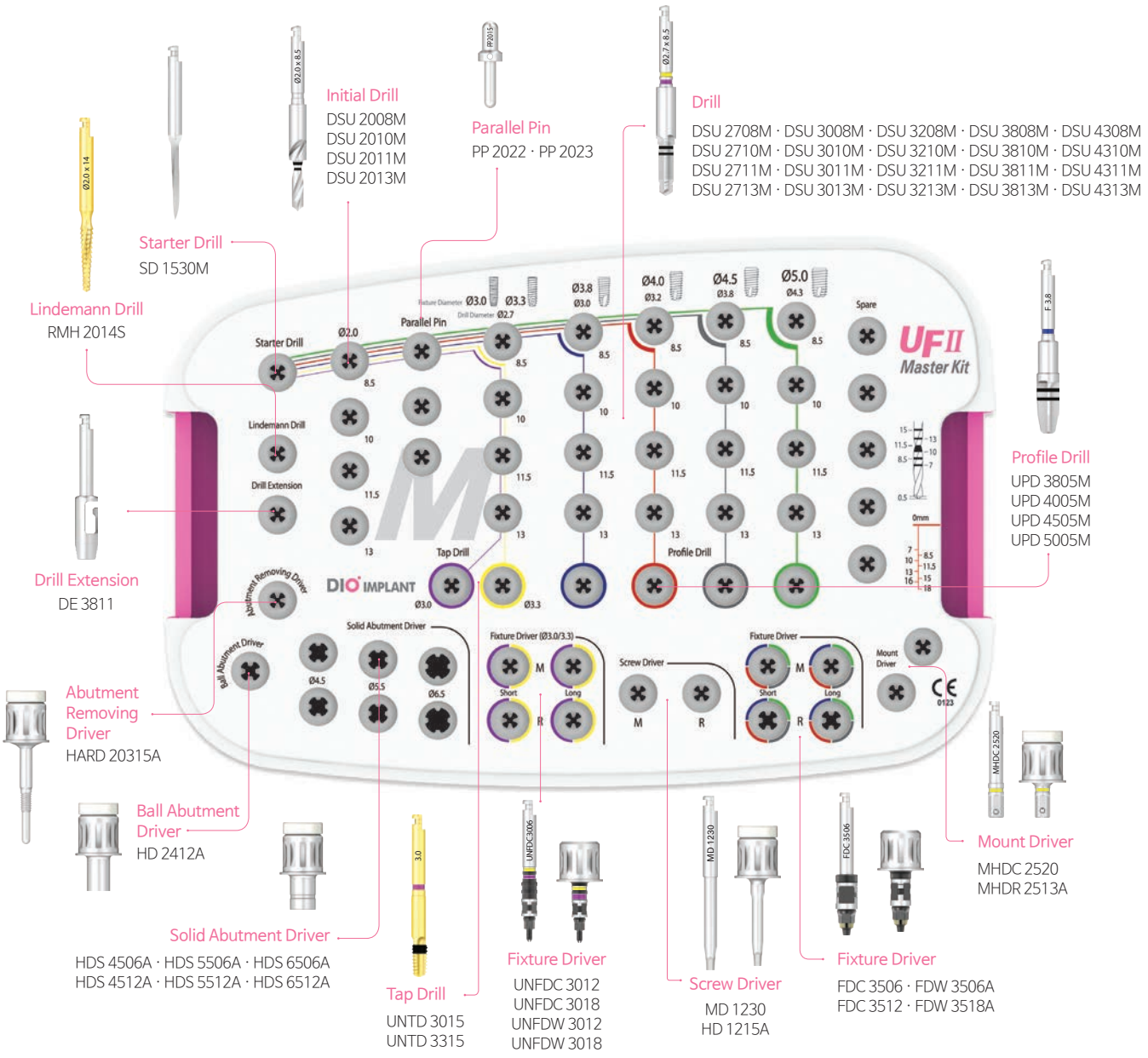
Type	Machine	Ratchet
Code	MMD **1224**	MHD **1215A**

UFⅡ Master Kit

Kit Code I UF(M) 06

· Kit composed of drill with outstanding cutting force and durability, etc.
· UF(II) Narrow Ø3.0 Ø3.3/ UF(II) Regular Ø3.8 Ø4.0 Ø4.5 Ø5.0 Fixture

Unit mm I Drill Scale 1 : 0.9



Torque Wrench
DTW 0060

Open Wrench
OW 004

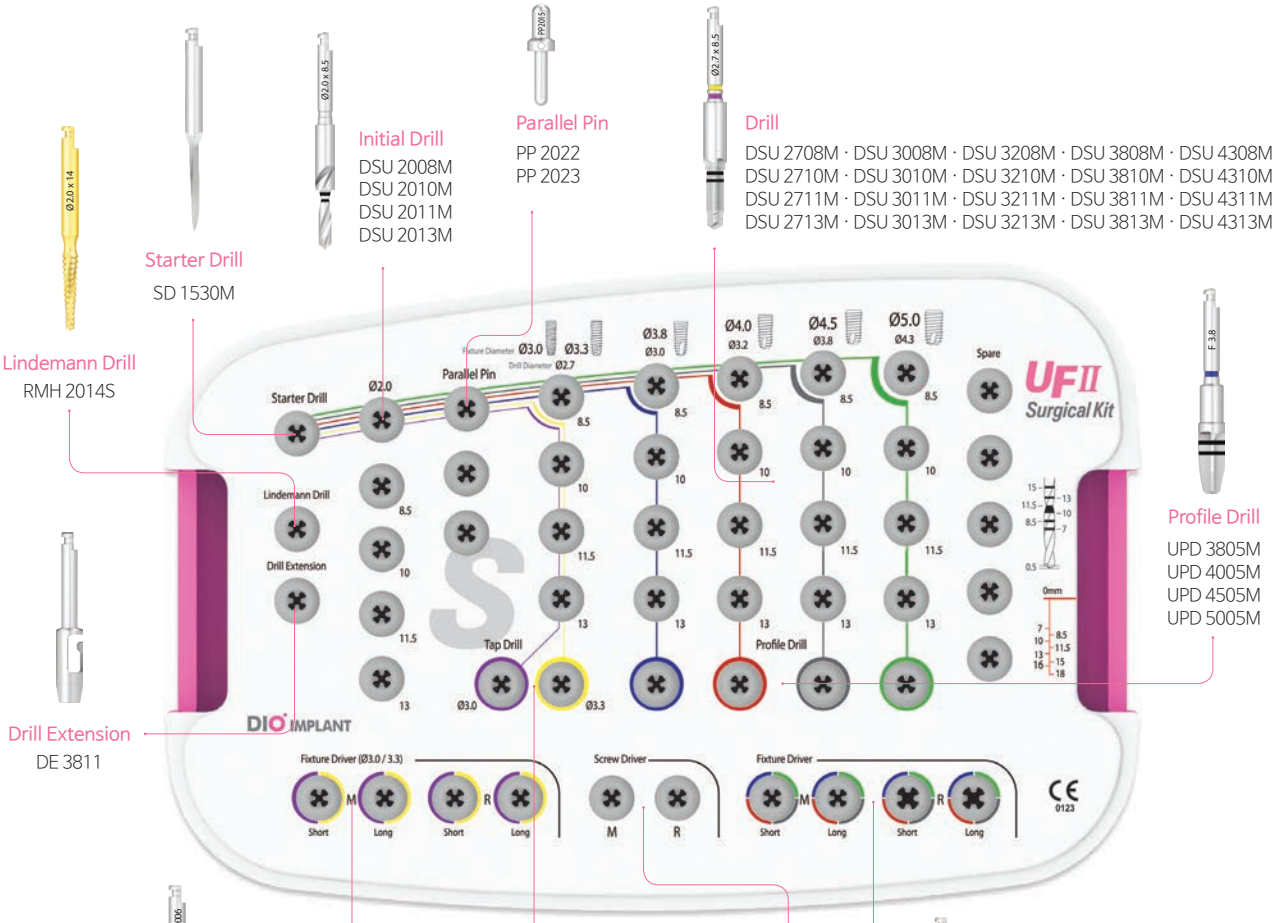
Deapth Gauge
DPG 2050

UFⅡ Surgical Kit

Kit Code I UF(M) 07

· Kit composed of drill with outstanding cutting force and durability, etc.
· UF(II) Narrow Ø3.0 Ø3.3/ UF(II) Regular Ø3.8 Ø4.0 Ø4.5 Ø5.0 Ø5.5 Fixture

Unit mm I 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

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

Fixture Driver
UNFDC 3012 · UNFDW 3012
UNFDC 3018 · UNFDW 3018

Tap Drill
UNTD 3015
UNTD 3315

Screw Driver
MD 1230
HD 1215A

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

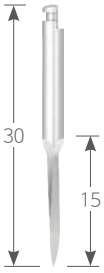
Torque Wrench
DTW 0060

Open Wrench
OW 004

Deapth Gauge
DPG 2050

Surgical Tool

Starter Drill



K

Unit mm I Scale 1 : 1.15

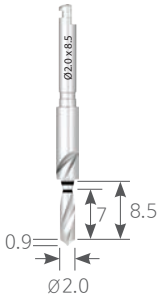
Code	SD 1530M

Intial Drill

K **D Ø2.0**

Unit mm I Scale 1 : 1

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



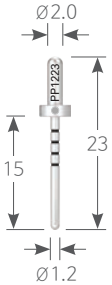
Parallel Pin

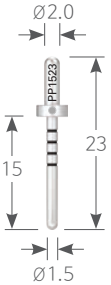
● Sold separately

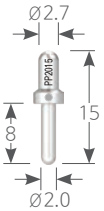
K

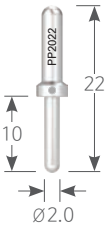
Unit mm I Scale 1 : 1

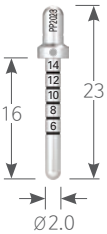
Code	PP 1223	PP 1523	PP 2015	PP 2022	PP 2023











Path Pin

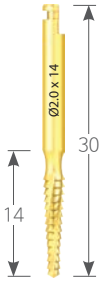
● Sold separately

K

Unit mm I Scale 1 : 1.2

Code	DPP 3512

Lindemann Drill



K **D Ø2.0**

Unit mm I Scale 1 : 1.2

Code	RMH **2014S**

Positioning Guide

● Sold separately

K **D Ø2.0**

Unit mm I Scale 1 : 1.2

Code	PG **0060**

Angled Path Pin

● Sold separately

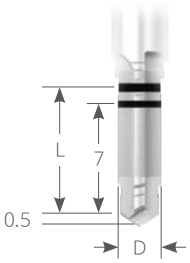
K

Unit mm I Scale 1 : 1.15

Code	DAP **4515A**	DAP **4515B**
		
Type	Hex A	Hex B

Surgical Tool

Drill



Color | Scale 1 : 1.15

● Sold separately

K D Ø2.7

Unit mm | Scale 1 : 1

Code	DSU 2708M	DSU 2710M	DSU 2711M	DSU 2713M	DSU 2715M	DSU 2718M
Length	8.5	10	11.5	13	15	18

K D Ø3.0

Unit mm | Scale 1 : 1

Code	DSU 3008M	DSU 3010M	DSU 3011M	DSU 3013M	DSU 3015M	DSU 3018M
Length	8.5	10	11.5	13	15	18

K D Ø3.2

Unit mm I Scale 1 : 1

Code	DSU3208M	DSU 3210M	DSU 3211M	DSU 3213M	DSU 3215M	DSU 3218M
						
Length	8.5	10	11.5	13	15	18

K D Ø3.8

Unit mm I 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 I Scale 1 : 1

Code	DSU4308M	DSU 4310M	DSU 4311M	DSU 4313M	DSU 4315M	DSU 4318M
						
Length	8.5	10	11.5	13	15	18

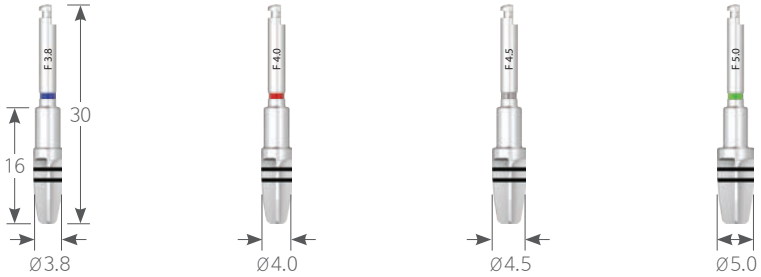
Surgical Tool

Profile Drill

K

Unit mm I 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 I 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 I Scale 1 : 1.2

Code	DE 3811

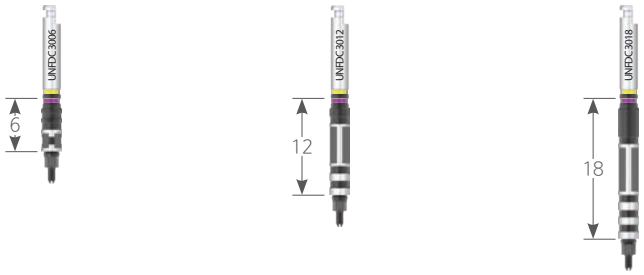
Fixture Driver Narrow

● Sold separately

K Machine

Unit mm I 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 I 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

Unit mm I Scale 1 : 1

K Slot 0.5

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

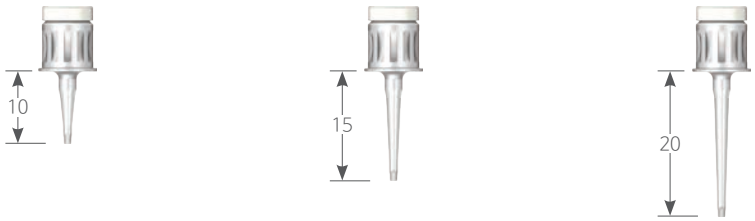
Unit mm I Scale 1 : 1

K Slot 0.5

Code	HD 0510A	HD 0515A

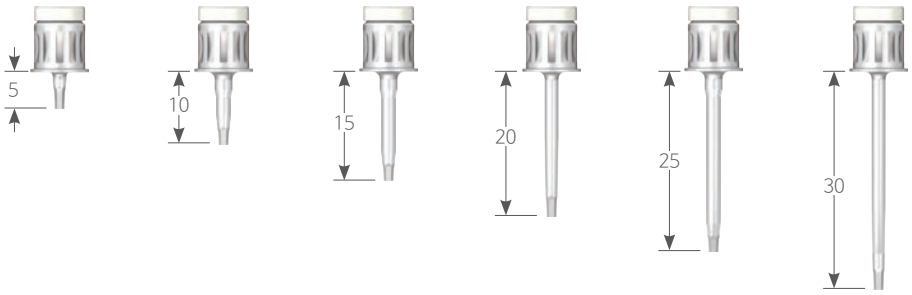
K Hex 0.9

Code	HD 0910A	HD 0915A	HD 0920A



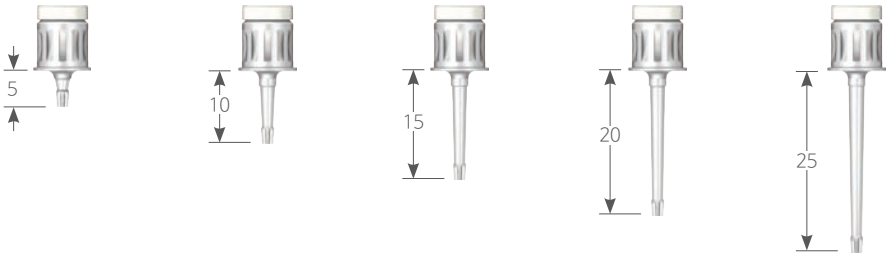
K Hex 1.2

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 I 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 I Scale 1 : 1.2

Length	6	12
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 I Scale 1 : 1

Code	HD **2406A**	HD **2412A**

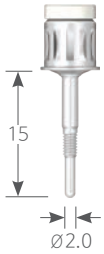
Removing Driver

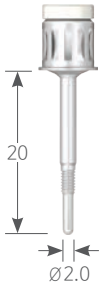
· UF(II) Master Kit only

K

Unit mm I Scale 1 : 1

Code	HARD 20315A	HARD 20320A

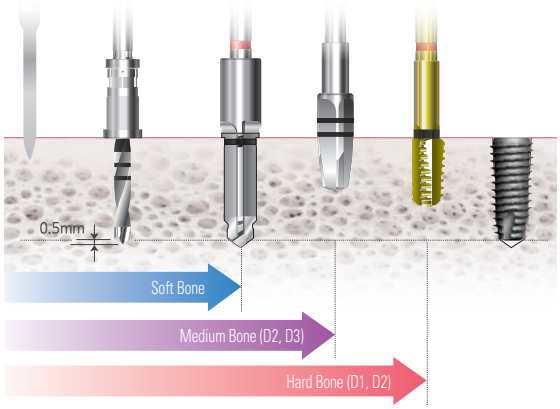




Surgical Protocol

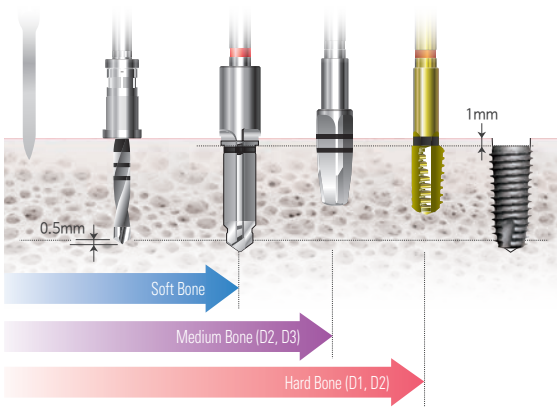
Crestal Placement

Starter Drill	Initial Drill	Drill	Profile Drill	Tap Drill	UF(II) Fixture
1,200rpm	1,000rpm	800rpm	300rpm	50rpm	20rpm



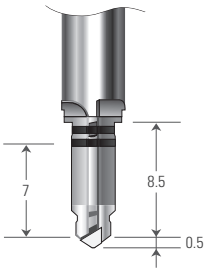
1mm Subcrestal Placement

Starter Drill	Initial Drill	Drill	Profile Drill	Tap Drill	UF(II) Fixture
1,200rpm	1,000rpm	800rpm	300rpm	50rpm	20rpm



Drill

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



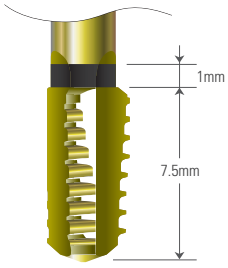
Profile Drill

Drilling depth can effect initial stability.

Lower → Used to reduce insertion torque on Soft Bone.

← Upper Used to reduce insertion torque on Dense Bone.

Tap Drill

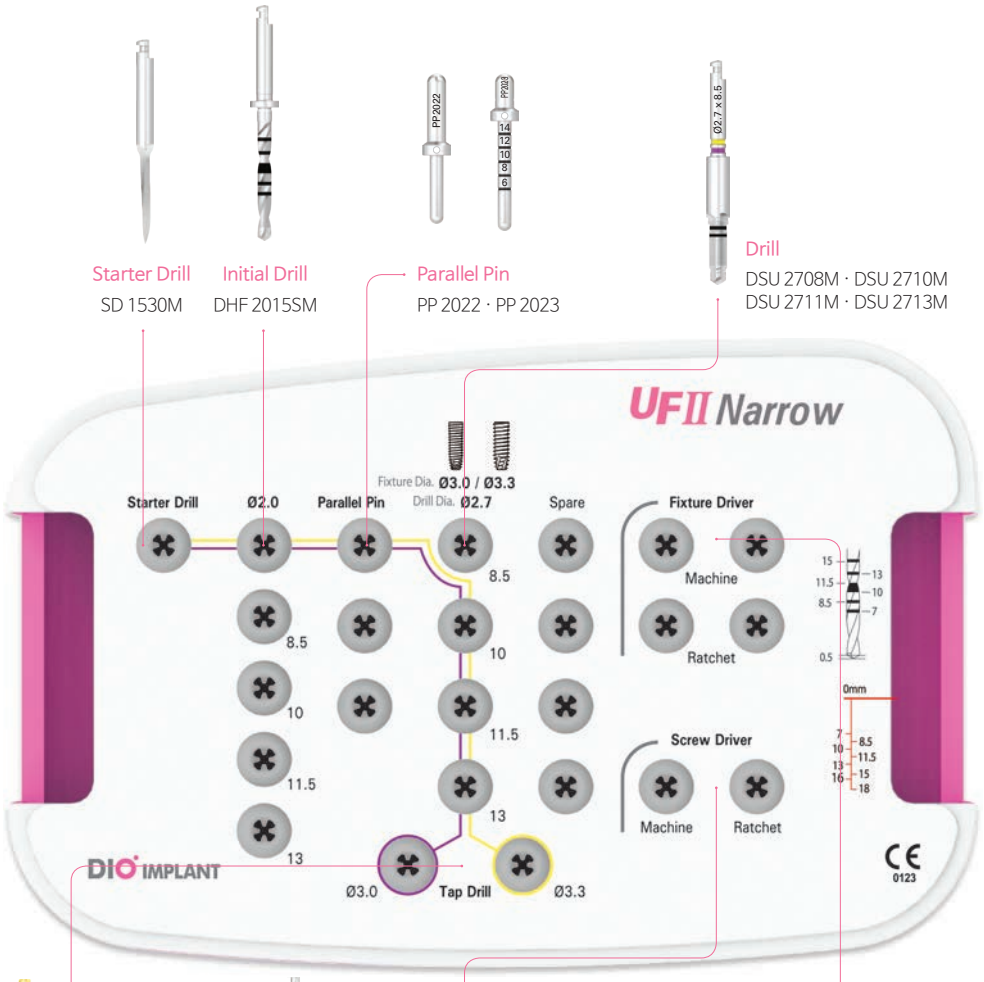


UFⅡ Narrow Kit

Kit Code I UF(M) 08

· Kit composed of drill with outstanding cutting force and durability, etc.
· UF(II) Narrow Ø3.0 Ø3.3 Fixture

Unit mm I Drill Scale 1 : 0.9



Starter Drill
SD 1530M

Initial Drill
DHF 2015SM

Parallel Pin
PP 2022 · PP 2023

Drill
DSU 2708M · DSU 2710M
DSU 2711M · DSU 2713M

Tap Drill
UNTD 3015
UNTD 3315

1.2 Hex Screw Driver
MD 1230
HD 1220A

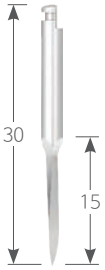
Fixture Driver
UNFDC 3012 · UNFDW 3012
UNFDC 3018 · UNFDW 3018

Deapth Gauge
DPG 2050

Torque Wrench
DTW 0060

Surgical Tool

Starter Drill

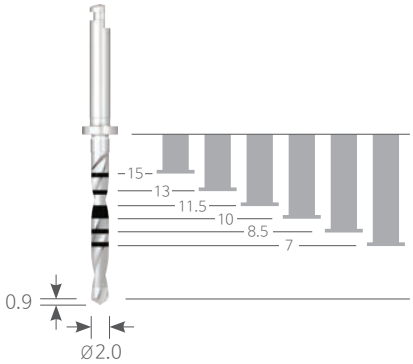


K

Unit mm I Scale 1 : 1.2

Code	SD **1530M**

Initial Drill



K **D Ø2.0**

Unit mm I Scale 1 : 1.2

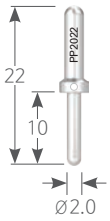
Code	DHF **2015SM**

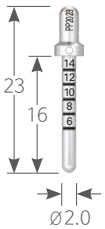
Parallel Pin

K **D Ø2.0**

Unit mm I Scale 1 : 1

Code	PP **2022**	PP **2023**





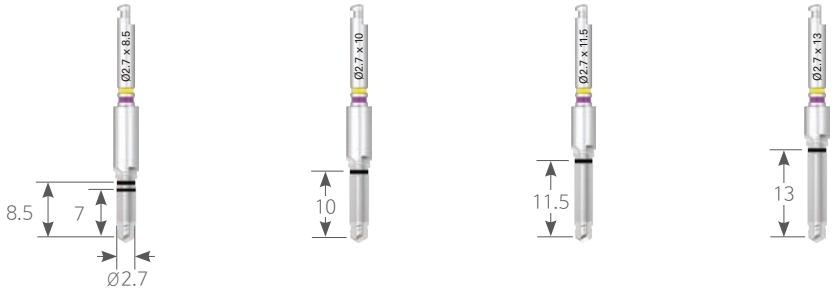
Surgical Tool

Drill

K **D Ø2.7**

Unit mm I Scale 1 : 1

Code	DSU **2708M**	DSU **2710M**	DSU **2711M**	DSU **2713M**



Tap Drill

K

Unit mm I Scale 1 : 1

Fixture Size	Ø**3.0**	Ø**3.3**
Code	UNTD **3015**	UNTD **3315**

Fixture Driver

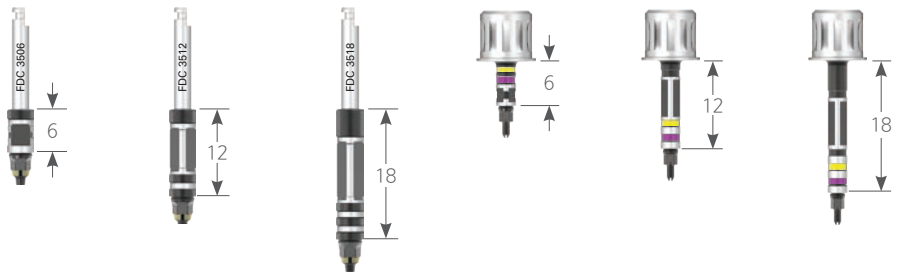
· Maximum Tightening Torque : 50Ncm
· Drill lifespan : 20 oseotomies

● Sold separately

K

Unit mm I Scale 1 : 1

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

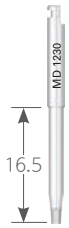


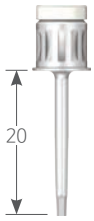
Screw Driver

K Hex 1.2

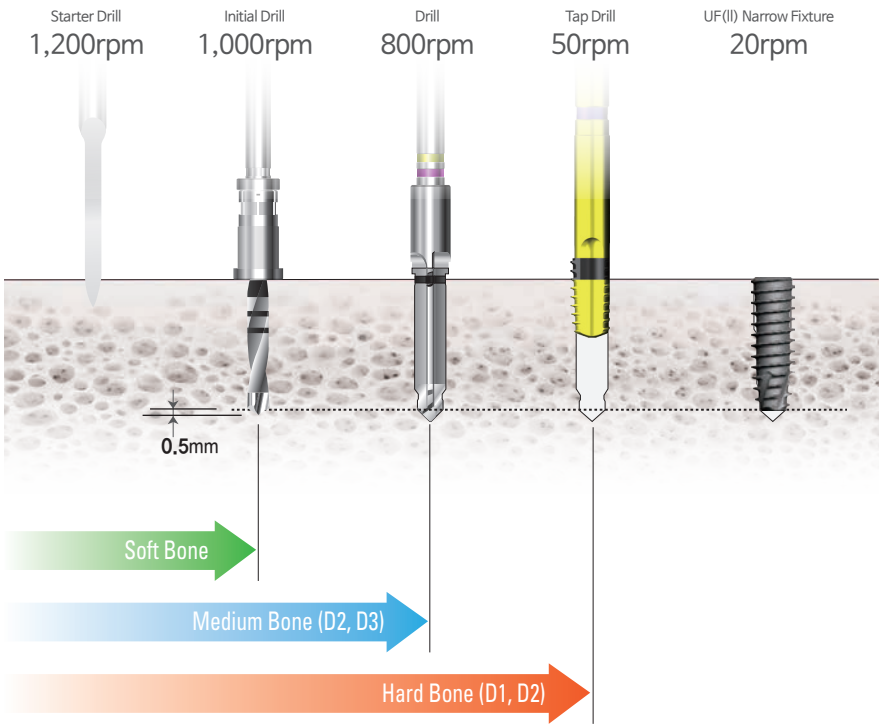
Unit mm I Scale 1 : 1

Type	Machine	Ratchet
Code	MD **1230**	HD **1220A**

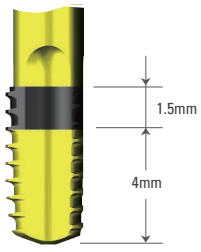




Surgical Protocol



Tap Drill



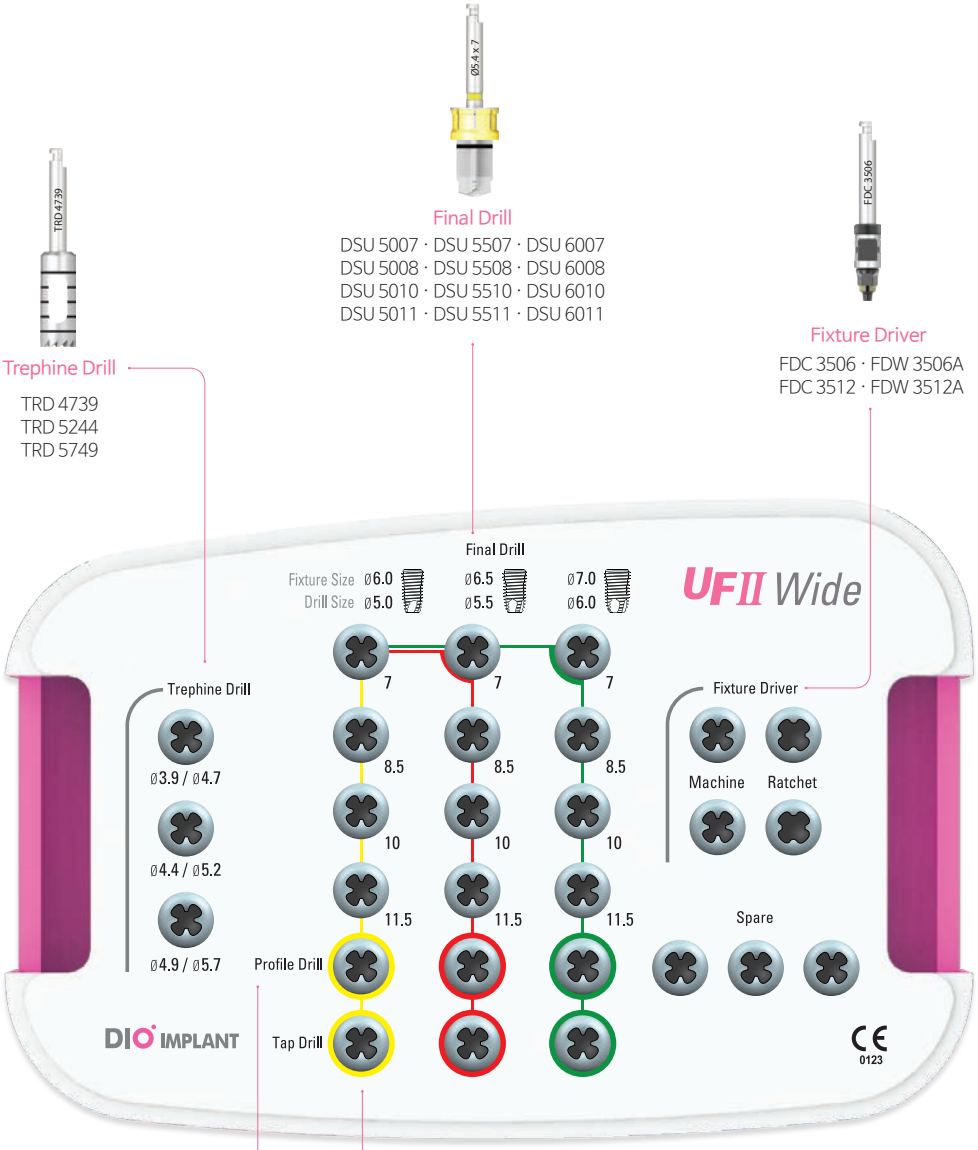
· Tightening torque : 20~40Ncm
Maximum tightening torque : 50Ncm

UFⅡ Wide Kit

Kit Code I UF 09

· Kit composed of drill with outstanding cutting force and durability, etc.
· UF(II) Wide Ø6.0 Ø6.5 Ø7.0 Fixture

Unit mm I Drill Scale 1 : 0.9



Trephine Drill

TRD 4739
TRD 5244
TRD 5749

Final Drill

DSU 5007 · DSU 5507 · DSU 6007
DSU 5008 · DSU 5508 · DSU 6008
DSU 5010 · DSU 5510 · DSU 6010
DSU 5011 · DSU 5511 · DSU 6011

Fixture Driver

FDC 3506 · FDW 3506A
FDC 3512 · FDW 3512A

Profile Drill

UPD6010 · UPD6510 · UPD7010

Tap Drill

UT(II) 6006 · UT(II) 6506 · UT(II) 7006

Surgical Tool

Trephine Drill

Scale 1 : 1.15

K

Unit mm I 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

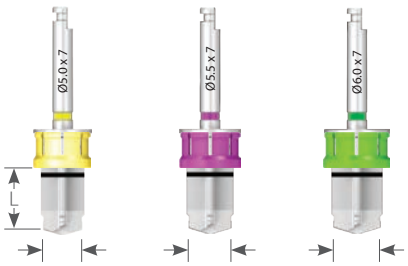
K

Unit mm I Scale 1 : 1

Fixture Size	Ø**6.0**	Ø**6.5**	Ø**7.0**
Code	UPD **6010**	UPD **6510**	UPD **7010**
			
Color	●	●	●

Surgical Tool

Final Drill



Scale 1 : 1.15

Color	●	●	●
Stopper	ST 5504	ST 6004	ST 6504

● Sold separately

K D Ø5.0

Unit mm I 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

K

Unit mm I Scale 1 : 1

Fixture Size	Ø6.0	Ø6.5	Ø7.0
Code	UT(II) **6006**	UT(II) **6506**	UT(II) **7006**
			
Color			

Fixture Driver

● Sold separately

K **D Ø2.7**

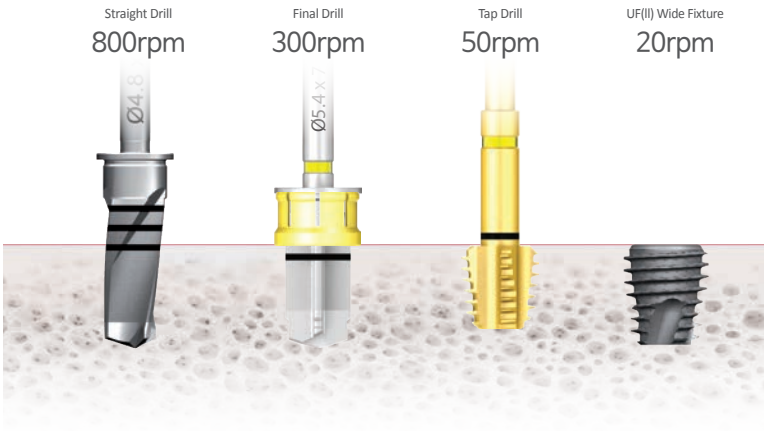
Unit mm I Scale 1 : 1

Type	Machine			Ratchet		
Code	FDC **3506**	FDC **3512**	FDC **3518**	FDW **3506A**	FDW **3512A**	FDW **3518A**

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.

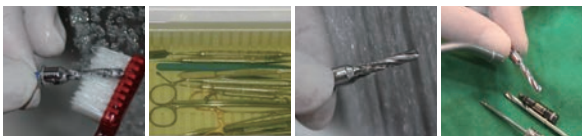
3/ Make sure that debris is not seen with the naked eye.

- **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.**

4/ 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.

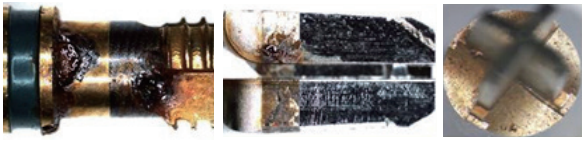
5/ To prevent corrosion or water stain on the instruments, completely dry with a dryer or filtered compressed air

6/ 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

1/ Check on the dry status of the instruments and pack in the sterilized wrapping paper.

2/ 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

1/ Pasteurization process must follow the sterilizer equipment manufacturer. ※ **4~ 18 minutes in 134'C for autoclave sterilization.**

2/ 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℃**
- **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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