OSSTEM IMPLANT SYSTEM

2012 PRODUCT CATALOG



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2011	Dec	Introduces and commences commercial production of K2 Unit & Chair	2007	Mar	Develops and begins commercial production of MS Lists on KOSDAQ (KRX: Korea Exchange)
	Nov	Develops and begins commercial production of Smart	2006		
		Membrane		Dec	Establishes subsidiary offices in Bangkok, Thailand and Kuala
	Oct	Registers and obtains approval from Health Canada			Lumpur,
		Develops and begins commercial production of USII SA and 123 Kit			Malaysia [OSSTEM Thailand Co., Ltd. and OSSTEM Malaysia SDN, BHD]
	Sep	Establishes subsidiary offices in Dacca , Bangladesh and Ho		Nov	Registers and obtains approval from the SFDA in China
		Chi Minh City, Vietnam [OSSTEM Bangladesh Ltd. and OSSTEM IMPLANT Vina Co., Ltd.]		Sep	Establishes subsidiary office in Philadelphia, U.S.A [HiOssen Inc.]
		Develops and begins commercial production of SSIII SA		Aug	Establishes subsidiary offices in Beijing, China / Singapore
		Registers and obtains approval from the Ministry of Health			and Hong Kong [OSSTEM China Co., Ltd. / OSSTEM
		and Society in Vietnam			Singapore Pte Ltd. and OSSTEM Hong Kong Ltd.]
	Aug	Establishes subsidiary offices in Manila, Philippines and		Jul	Establishes subsidiary office in Tokyo, Japan [OSSTEM Japan
		Vancouver, Canada [OSSTEM Philippines Inc. and HiOssen			Corp.]
		Implant Canada Inc.]		Apr	Registers and obtains the GOST-R certification in Russia
	Jul	Develops and begins commercial production of CustomFit			Opens 'OSSTEM World Meeting 2006 in Seoul'
		Abutment			Publishes the 「2006 OSSTEM IMPLANT SYSTEM」-
		Establishes subsidiary offices in Almaty, Kazakhstan			Introduction and particulars of implant system
		[OSSTEM IMPLANT LLP]		Jan	Establishes the subsidiary offices in Moscow, Russia and
	Jun	Develops and begins commercial production of TSII SA			Mumbai, India [OSSTEM LLC. and OSSTEM IMPLANT India
	ou	Hosts 'OSSTEM World Meeting 2011 in Seoul'			Pvt Ltd.]
	Apr	Develops and begins commercial production of LAS Kit			
	7 (5)	Establishes subsidiary offices in Jakarta, Indonesia [PT	2005	Dec	Registers and obtains approval by the DOH in Taiwan
		OSSTEM Indonesia]		200	Establishes the subsidiary office in Ashborn, Germany
	Mar	Establishes subsidiary offices in Guadalajara, Mexico			[OSSTEM Germany GmbH]
	IVIGI	[HiOssen de Mexico]		May	
	Feb	Develops and begins commercial production of TSIV SA		Apr	Hosts 'OSSTEM World Meeting 2005 in Seoul'
	1 65	Develops and begins commercial production of Tolv OA		Mar	Obtains KGMP(Korean Good Manufacturing Practice) in
2010	Nov	Develops and begins commercial productions of SSII SA		IVICII	Korea
		Develops and begins commercial productions of 3311 Julitra-		Jan	Establishes the subsidiary office in Taipei, Taiwan [OSSTEM
	Aug	wide		Jan	Corporation]
	Jun	Develops and begins commercial productions of TSIII HA and	2004		
		CAS Kit		Nov	Develops and begins commercial production of SSIII
		Opens 'OSSTEM World Meeting 2010 in Beijing'		Jul	Develops and begins commercial production of USIII
	Apr	Develops and begins commercial productions of Osstem		Apr	Opens 'OSSTEM World Meeting 2004 in Seou'
		Guide	2002		
	Mar	Develops and begins commercial productions of TSIII SA		Oct	Develops and begins commercial production of SSII
2009	-			Aug	Registers and obtains approval by the FDA in the USA
	Oct	Registers and obtains approval from Health, Labor and			Develops and begins commercial production of USII
		Welfare in Japan		Jan	Establishes OSSTEM Implant R&D Center
	May	Hosts 'OSSTEM World Meeting 2009 in Bangkok'	2001		
	Jan	Certifies PEP7 (the world's first new Osseo-inductive	2001	Mar	Establishes AIC(Apsun Dental Implant Research & Education
		compound)			Center)
2008				Jan	Obtains CE-0434 certification
2006	Nov	Develops and begins commercial productions of SS Ultra-	1999		
		wide	1999	Dec	Obtains ISO-9001 certification
	Jun	Develops and begins commercial productions of GSIII	1997		
	Apr	Holds 'OSSTEM World Meeting 2008 in Seou'	1991	Dec	Begins commercial production under the brand name of
	Mar	Opens ATC Training Center			OSSTEM
	Jan	Establishes OSSTEM Bone Science Institute		Jan	Establishes OSSTEM IMPLANT Co., Ltd. in Seoul, Korea
000=			1005		
2007	Oct	Establishes subsidiary offices in Sydney, Australia [Osstem	1995	Deve	elops dental implants and acquires industrial license
		Australia PTY Ltd.]	4000		
	Jun	Registers and obtains approval from the TGA in Australia	1992	Initia	tes the development of dental implant system
	May	Develops and begins commercial production of US Ultra-			
	ĺ	wide			
	Apr	Hosts 'OSSTEM World Meeting 2007 in Seoul'			
	· ·	Begins commercial production of V-ceph			
		<u> </u>			

OSSTEM IMPLANT SYSTEM

KIT

Fixture and Restorative Components





Early & Esthetic

OSSTEM IMPLANT

KIT



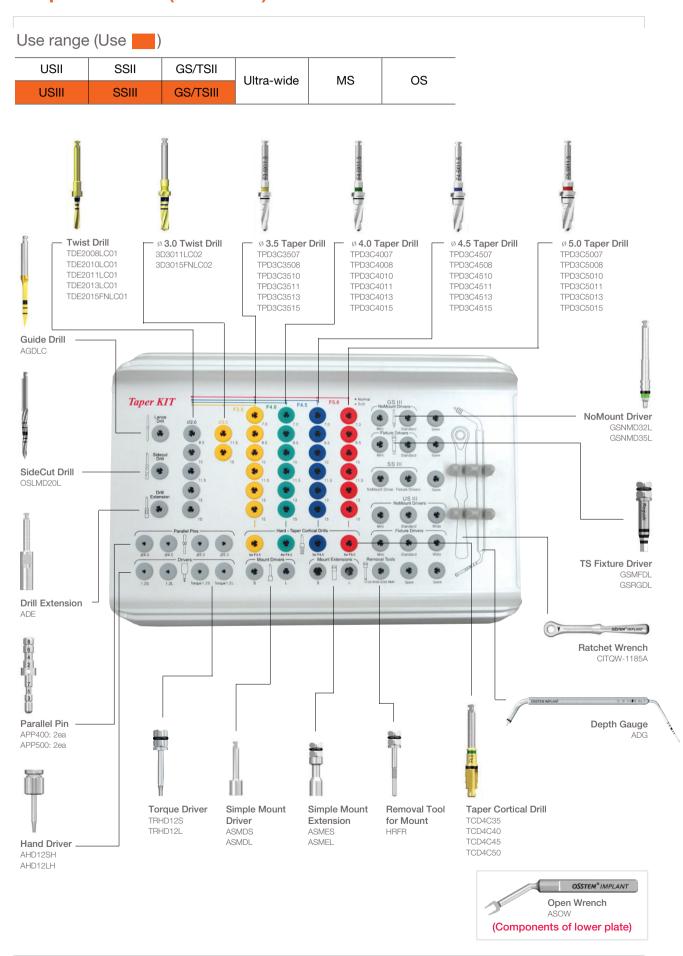
New Product

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123 Kit	H123K		P 13
Taper Ultra Kit	HULTPK		P 15
LAS-KIT Plus	HLRSNKP		P 44

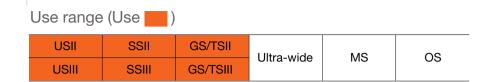
Upgraded Products

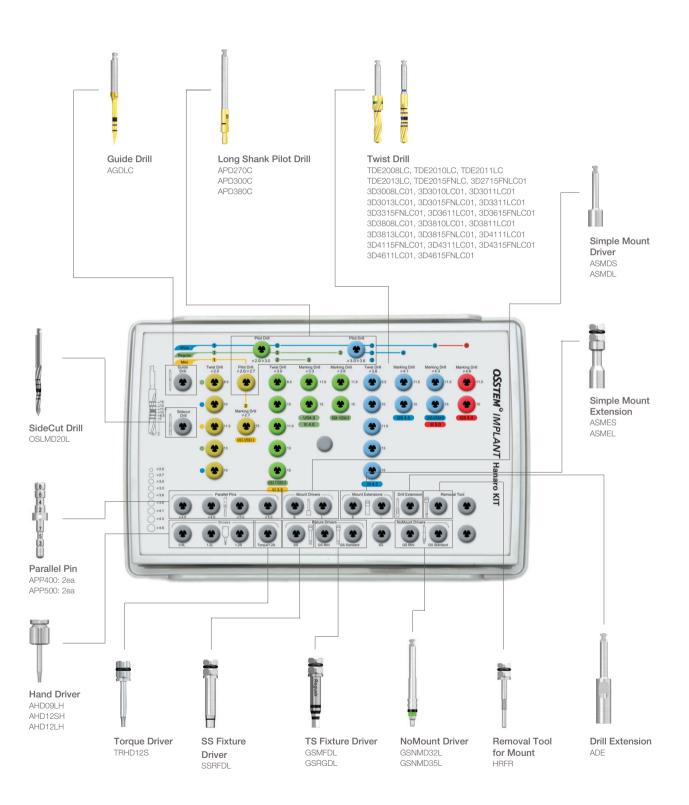
Name	Code	lma	age	Improvements	Page
Name	Code	Before	After	improvements	Page
Machine Screw Driver	AMSD09S, AMSD09L, AMSD12S, AMSD12L, AMSD12E	Y	Y	Improvement of holding function	P 35
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Taper Cortical Drill	TCD4C35, TCD4C40, TCD4C45, TCD4C50	071	H ₀	Optimization of Taper Cortical Drill diameter	P 22

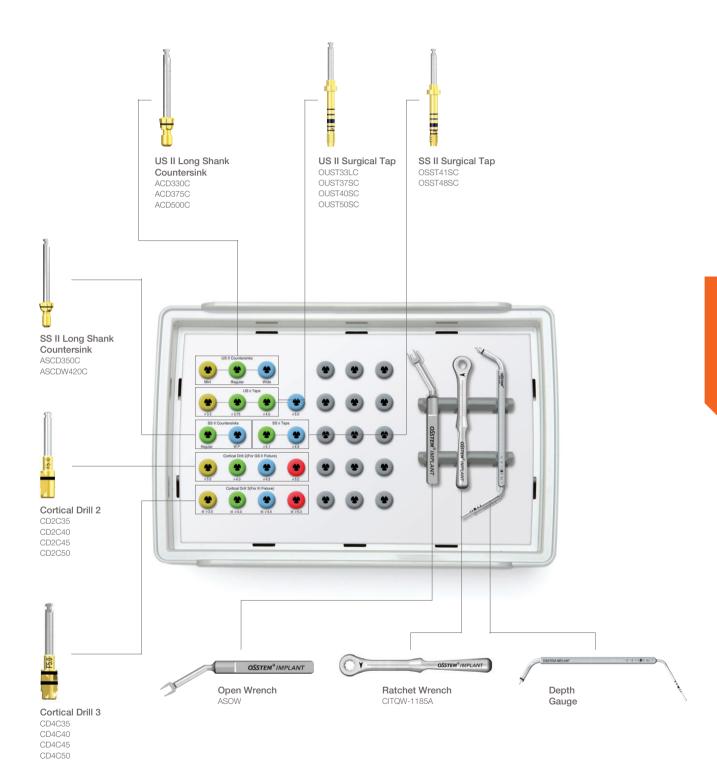
Taper KIT (OTSK)



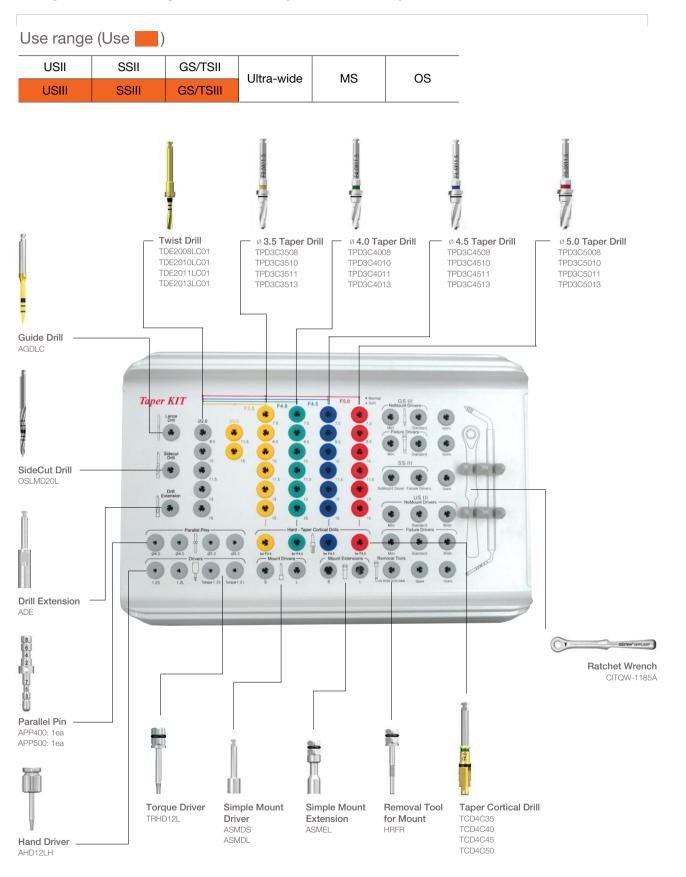
New Hanaro KIT (HKA2)







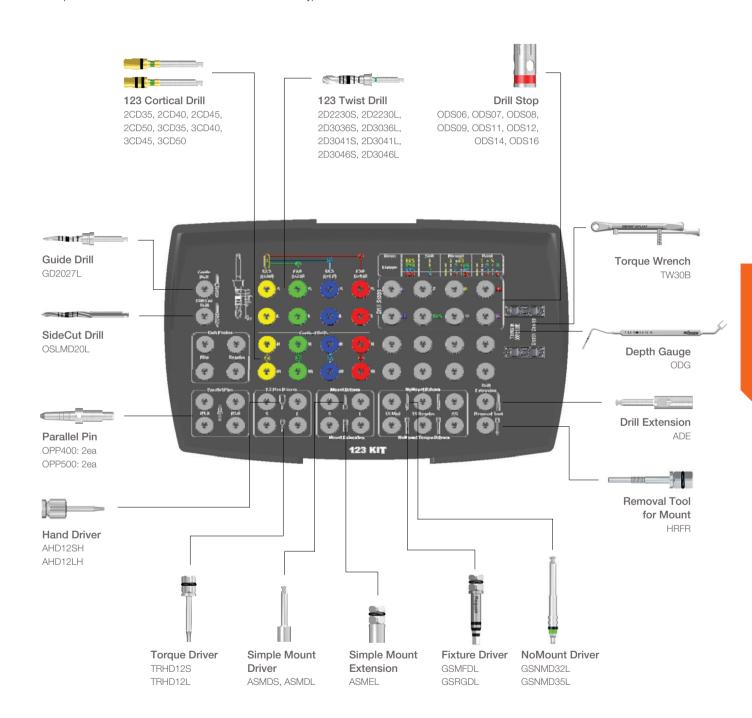
Taper Simple KIT (OTSSK)



123 KIT (H123K)

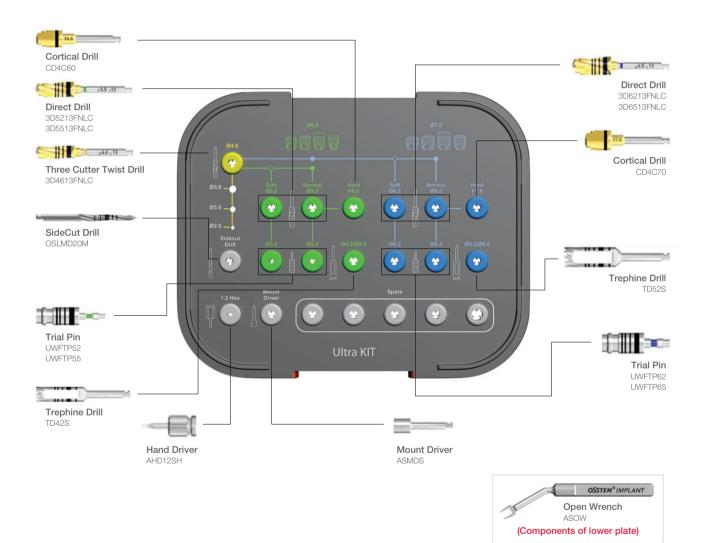
Use range (Use SSII SA USII SA

(* Use 123KIT for SA or HA surface-treated fixture only)



Ultra KIT (HULTRK)

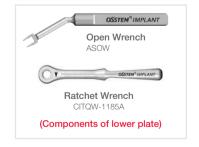
Use range (Use Usi SSII TSII Ultra-wide MS OS USIII TSIII



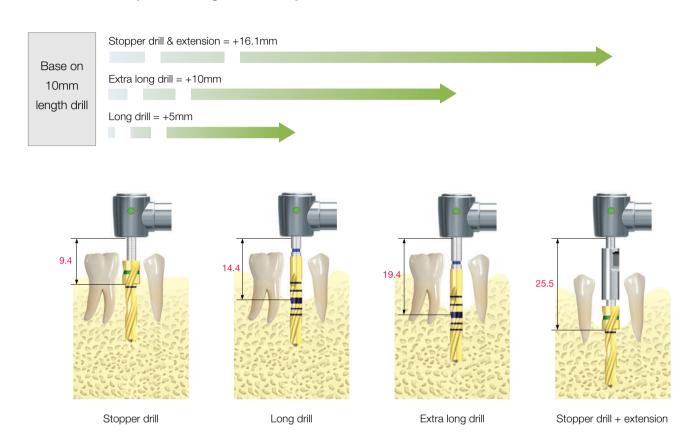
Taper Ultra KIT (HULTPK)





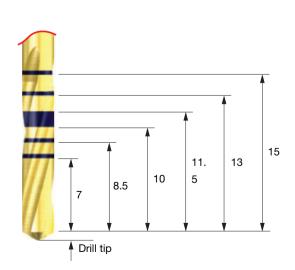


Drill selection tip according to anatomy condition



General length markings of OSSTEM equipment and the tip length of the twist drill

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General length marks of OSSTEM tools Based on the thick marking line (10 and 11.5mm), upper 13 and 15mm and lower 7 and 8.5mm positions are marked

Drill diameter	Drill tip size
ø 2.0mm	0.6mm
ø 2.7mm	0.8mm
ø 3.0mm	0.9mm
ø 3.3mm	1.0mm
ø 3.6mm	1.0mm
ø 3.8mm	1.0mm
ø 4.1mm	1.0mm
ø 4.3mm	1.0mm
ø 4.6mm	1.0mm

Surgical Instruments for OSSTEM IMPLANT

Twist Drills

Stopper Drill Long Drill Extra Long Drill

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20.4

21.5

22.5

22.5

23.5

24.5

25.5

26.5

27.7

28.5

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Stopper Drill

LD	ø 2.0	ø 3.0	ø 3.3	ø 3.6	ø 3.8	ø 4.1	ø 4.3	ø 4.6
7	TDE2007LC	3D3007LC01	-	-	3D3807LC01	-	-	-
8.5	TDE2008LC	3D3008LC01	-	-	3D3808LC01	-	-	-
10	TDE2010LC	3D3010LC01	-	-	3D3810LC01	-	-	-
11.5	TDE2011LC	3D3011LC01	3D3311LC01	3D3611LC01	3D3811LC01	3D4111LC01	3D4311LC01	3D4611LC01
13	TDE2013LC	3D3013LC01	-	-	3D3813LC01	-	-	-

- Package unit : each part
- Long stopper (6 mm): Posterior surgery may be performed even without drill extension
- The color coding on the stopper indicates the drill length
- The tip length of a 2.0 twist drill is 0.6 mm, and the other tip length of drills, 0.8mm~1mm

Long Drill

LD	Ø 2.0	ø 2.7	ø 3.0	ø 3.15	ø 3.3	ø 3.6	ø 3.8	ø 4.1	ø 4.3	ø 4.6
13	TDE2013FNLC		3D3013FNLC				3D3813FNLC			3D4613FNLC
15	TDE2015FNLC	3D2715FNLC01	3D3015FNLC01	3D3115FNLC01	3D3315FNLC01	3D3615FNLC01	3D3815FNLC01	3D4115FNLC01	3D4315FNLC01	3D4615FNLC01

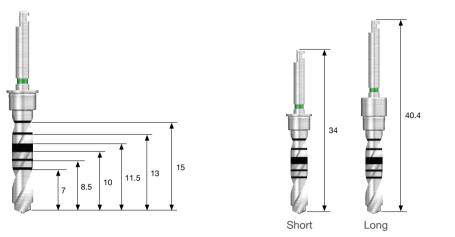
- Package unit : each part
- Cuts the stopper of a 15 mm drill to facilitate depth adjustment in the ridge
- The laser marking indicates the length, thereby enabling all drilling lengths (7-15 mm) using one drill
- Handles are color-coded to indicate drill length

Extra Long Drill

LD	ø 2.0	ø 2.7	ø 3.0	ø 3.15	ø 3.3	ø 3.6	ø 3.8	ø 4.1	ø 4.3	ø 4.6
	TDE2015FNEC	3D2715FNEC	3D3015FNEC	3D3115FNEC	3D3315FNEC	3D3615FNEC	3D3815FNEC	3D4115FNEC	3D4315FNEC	3D4615FNEC

- Package unit : each part
- For sufficient intermaxillary gap as in the anterior part, drilling may be performed even without drill extension
- The laser marking indicates the length, thereby enabling all drilling lengths (7-15 mm) using one drill
- Handles are color-coded to indicate drill length

123 Twist Drill



1)/2/3	ø 2.2/3.0	ø 3.0/3.6	ø 3.0/3.6/4.1	ø 3.0/4.1/4.6				
Short	2D2230S	2D3036S	2D3041S	2D3046S				
Long	2D2230L	2D3036L	2D3041L	2D3046L				
Coloring	Yellow	Green	Blue	Red				
Y-Dim.	0.7mm							

- Packing unit: each part
- The color of 123drill handle part means the diameter and kind of main mixture to be used
- Yellow: F3.5, Green: F4.0, Blue: F4.5, Red: F5.0
- Install the drill stop in order to adjust the drilling depth to intended level
- 123 twist drill has good cutting force and control of drilling depth may be difficult; therefore, it is highly recommended to use the drill stop

123 Drill Stop

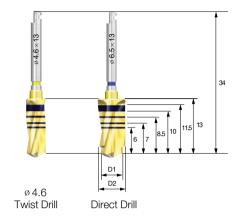


	ODS06	ODS07	ODS08	ODS09	ODS11	ODS12	ODS14	ODS16
L(mm)	6.2	7	8	9.5	11	12.5	14	16
Coloring	Purple	White	Yellow	Red	Blue	Green	Black	Purple

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- Packing unit: each part
- The length of drill stop means the remained actual length when the drill stop is installed on 123 twist drill
- The lengths are differentiated with colors for convenient identification of lengths and return to KIT

Drill for Ultra-Wide



Name	D1	D2	Code
Ivaille	D1	DZ	Code
Ø 4.6 Twist Drills	ø 4.6	-	3D4613FNLC
Ø 5.2 Direct Drill	ø 4.6	ø 5.2	3D5213FNLC
Ø 5.5 Direct Drill	ø 4.6	ø 5.5	3D5513FNLC
Ø6.2 Direct Drill	ø 5.5	ø 6.2	3D6213FNLC
Ø6.5 Direct Drill	ø 5.5	ø 6.5	3D6513FNLC

- Direct drill: 2-stepped drill equipped with both pilot and twist drill function
- 1. Enables final drilling without pilot drilling
- 2. Enhancement of initial fixation in the extract socket by decreasing the dead space at the apex area

Taper Drill

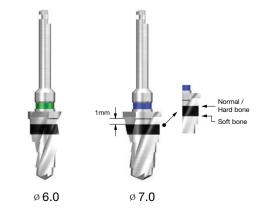
123 Drill diameter



Spec.	0.5	4.0		5.0
L	ø 3.5	ø 4.0	ø 4.5	ø 5.0
7	TPD3C3507	TPD3C4007	TPD3C4507	TPD3C5007
8.5	TPD3C3508	TPD3C4008	TPD3C4508	TPD3C5008
10	TPD3C3510	TPD3C4010	TPD3C4510	TPD3C5010
11.5	TPD3C3511	TPD3C4011	TPD3C4511	TPD3C5011
13	TPD3C3513	TPD3C4013	TPD3C4513	TPD3C5013
15	TPD3C3515	TPD3C4015	TPD3C4515	TPD3C5015
Length of Drill Tip	0.8mm	0.9mm	1.0mm	1.0mm

- Packing Unit : each part
- Processing exclusive use Taper Drill for III fixture diameter and length
- Stopper drill with 1mm margin
- Color coding on the shank indicates the fixture diameter (Ø 3.5:Yellow, Ø 4.0:Green, Ø 4.5:Blue, Ø 5.0:Red)

Taper Ultra Drill

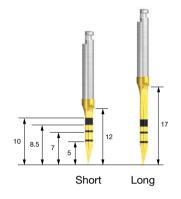


L Spec.	ø 6.0	ø 7.0
6	TPD3C6006	TPD3C7006
7	TPD3C6007	TPD3C7007
8.5	TPD3C6008	TPD3C7008
10	TPD3C6010	TPD3C7010
11.5	TPD3C6011	TPD3C7011
13	TPD3C6013	TPD3C7013

Packing Unit : each part

- Processing exclusive use Taper Drill for Taper Ultra-Wide fixture diameter and length
- Stopper drill with 1mm margin
- • Color coding on the shank indicates the fixture diameter (\emptyset 6.0 : Green, \emptyset 7.0 : Blue)

Lance Drill: Guide Drill



Туре		Code
Lance Drill	Short	AGDSC
	Long	AGDLC

- Packing Unit : each part
- Forms holes in the bone to facilitate initial drilling
- Bone density can be determined through drilling
- TiN coating improves anti-corrosion and wear resistance

uic		



	ø 2.0
Code	GD2027L

- Packing Unit : each part
- Used as the initial drill
- Install the drill stop in order to adjust the drilling depth to intended level

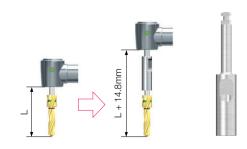
Sidecut Drill



	D1	D2	L
OSLMDS	1.5	2.0	13.0
OSLMDL	1.5	2.0	20.0
OSLMD20S	2.0	2.5	13.0
OSLMD20L	2.0	2.5	20.0

- Packing Unit : each part
- Enables the bodily change of drilling direction
- Used to cut the ridge of the extracted socket
- Facilitates site preparation in the extracted socket

Drill Extension

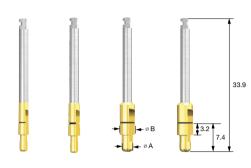


Code	ADE

- Packing Unit : each part
- Extends the length a drill and other hand tools
- Insertion into an O-ring offers a holding function
- Use by connecting the flat side of the drill handle to the flat side of the drill extension
- The use of too much force is prohibited

14.8mm extension of drill length in case of using drill extension

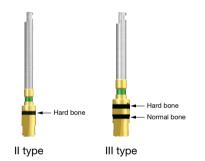
Long Shank Pilot Drill



ø A	øВ	Mini	Regular	Wide
2.0	2.7	APD270C	-	-
2.0	3.0	-	APD300C	-
3.0	3.8	-	-	APD380C
3.0	4.1	-	-	APD410C

- Packing Unit : each part
- Used for the path adjustment of a drilling hole
- When using the next size drill, the guide hole enables precise cutting
- TiN coating improves anti-corrosion and wear resistance

123 Cortical Drill



	F3.5	F4.0	F4.5	F5.0
II type	2CD35	2CD40	2CD45	2CD50
III type	3CD35	3CD40	3CD45	3CD50
Coloring	Yellow	Green	Blue	Red

- Packing Unit : each part
- It is recommended to drill up to the lower end of the marking line
- The marking line of II type cortical drill is based on hard bone
- The lower end marking line of III type cortical drill is based on normal bone and the upper end marking line is based on hard bone
- The color of handle part means the diameter and kind of main mixture to be used
- Yellow: F3.5, Green: F4.0, Blue: F4.5, Red: F5.0

Spec.	ø 3.5	ø 4.0	ø 4.5	ø 5.0
Code	CD2C35	CD2C40	CD2C45	CD2C50

- Packing Unit : each part
- Use after formation of final drill hole in case of hard bone(D1)
- Exclusive drills are available to meet the fixture diameters
- It is recommend that drilling performs up to under marking line

Cortical Drill 3 for Taper Fixture (TSIII, SSIII, USIII)

Cortical Drill 2 for TSII, SSII SA



Spec.	ø 3.5	ø 4.0	ø 4.5	ø 5.0
Code	CD4C35	CD4C40	CD4C45	CD4C50

- Packing Unit : each part
- Drills for expansion of cortical bone after use of straight drill
- Use after formation of final drill hole in case of more than normal bone
- Exclusive drills are available to meet the fixture diameters
- The lowest marking line is normal bone and the highest marking line is hard bone
- It is recommend that drilling performs up to marking line

Taper Cortical Drill for Taper Fixture (TSIII, SSIII, USIII)



Cortical Drill for Ultra-Wide®



- Spec.
 ø 3.5
 ø 4.0
 ø 4.5
 ø 5.0

 Code
 TCD4C35
 TCD4C40
 TCD4C45
 TCD4C50
- Packing Unit : each part
- Drills for expansion of cortical bone after use of taper drill
- Use after formation of final drill hole in case of more than hard bone
- Exclusive drills are available to meet the fixture diameters
- Lower end marking line is based on 8.5mm or smaller fixture implant
 Upper end marking line is based on 10mm or larger fixture implant
- It is recommend that drilling performs up to the bottom marking line

Name	Code
F6.0 Cortical Drill	CD4C60
F7.0 Cortical Drill	CD4C70

- Use after formation of final drill hole in case of hard bone(D1)
- Exclusive drills are available to meet the fixture diameters
- It is recommend that drilling performs up to the bottom marking line

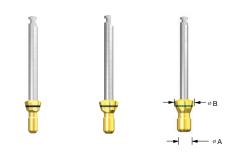
Long Shank Countersink for SSII RBM



øΑ	øΒ	Regular ø 4.1	Regular ø 4.8	Wide ø 4.8
3.5	4.8	ASCD350C	-	-
4.2	4.8	-	ASCD420C	-
4.2	6.0	-	-	ASCDW420C

- Packing Unit : each part
- Form fixture platform
- Cut up to the bottom of the laser marking
- Use US Mini Countersink for SS Mini as needed

Long Shank Countersink for USII RBM



øΑ	øΒ	Mini	Regular	Wide
2.6	3.5	ACD330C	-	-
2.9	4.1	-	ACD375C	
4.2	5.1	-	-	ACD500C

• Packing Unit: each part

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- Form space of fixture flange
- Cut up to the bottom of the laser marking

Countersink for USIII, USII SA, USIII SA(Wide PS, Wide)



Code USSCS45W

- Packing Unit : each part
- Instruments for Wide PS, Wide of USIII, USII SA, USIII SA
- Recommendation drilling rpm : 300rpm

Surgical Tap for SSII RBM



Platform	ø 4.8	ø 4.8	ø 6.0
Туре	ø 4.1	ø.	4.8
Short	OSST41SC	OSST	48SC
Long	OSST41LC	OSST	48LC

- Packing Unit : each part
- Use for dense bone and form screw thread-shaped fixtures
- Use a torque wrench after connecting to the engine or mount extension
- TiN coating improves anti-corrosion and wear resistance

Surgical Tap for USII RBM

Parallel Pin



→ Ø 2.7

Туре	3.3	3.75	4.0	5.0
Short	-	OUST37SC	OUST40SC	OUST50SC
Long	OUST33LC	OUST37LC	OUST40LC	-

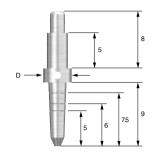
- Packing Unit : each part
- Use for dense bone and form screw thread-shaped fixtures
- Use as a torque after connecting to the engine or a simple mount extension
- TiN coating improves anti-corrosion and wear resistance

Diameter(ø)	Code
ø 4.0	APP400
ø 5.0	APP500
ø 6.0	APP600
Full Set	APPS

Packing Unit : Individual and general set packing

- Use for checking the direction and location for bone preparation
- Predicts the diameter of an abutment to be secured

Parallel Pin for 123 drill



D	ø 4.0	ø 5.0
Code	OPP400	OPP500

- Packing Unit : each part
- Parallel Pin 123 Twist Drill only
- Use for checking the direction and location for bone preparation
- Use the lower part for initial drilling and higher part for F3.5 (Ø 2.2/3.0) drilling

Depth Gauge



Code	ADG
------	-----

- Packing Unit: each part
- A : Measurement of drilling length (7-15 mm)
- B : Measurement of gingival height following external fixture grafting

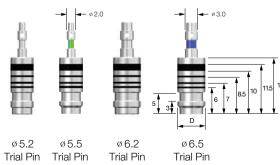
Depth Gauge



Code	ODG

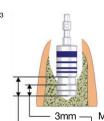
- Packing Unit : each part
- Use as drilling depth measurement and open wrench
- Use for separating Mount in case of soft bone

Trial Pin for Ultra-Wide



Diameter(D)	ø 5.2	Ø 5.5	Ø 6.2	Ø 6.5
Code	UWFTP52	UWFTP55	UWFTP62	UWFTP65

- Packing Unit: each part
- Check internal width and depth after extraction of a tooth
- Check the drilling depth after using direct drill as final drill
- Verify the internal diameter of the failed implant socket.
- The purpose of Parallel Pin

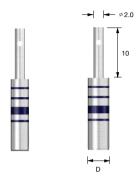


24



3mm — Minimum vertical height for immediate 5mm — placement after extraction

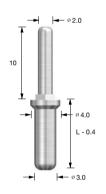
Depth Gauge Pin for SSII RBM



Diameter(ø)	ø 3.6	ø 4.3
Code	ASDG360	ASDG430

- Packing Unit : each part
- Measure the depth after the final drilling

Depth Gauge Pin for USII RBM



Length(mm)	Code
7	ADP607
8.5	ADP608
10	ADP610
11.5	ADP611
13	ADP613
15	ADP615
Full Set	ADP600

- Packing Unit : Individual and general set packing
- It is enable to check the drilling depth easily due to convenient design of top part

Positioning Guide



Width(mm)	Code
2.5	APG201
6	APG202
11	APG203

- Packing Unit : Individual and general set packing
- Indicates the distance between fixtures
- Use after the first drilling (2.0)

Tissue Height Gauge for TS



- Code GTHGS
- Packing Unit: each part
- Measurement gingival height for selecting optimal abutment
- Non gloss treatment for improving identification

Torque Wrench: Bar type



Code	TW30B

- Packing Unit: each part
- Possibility of loading 10, 20, 30 and infinite Ncm
- Used to adjust the installation location of implants or to tighten abutments or screws
- The last line is approx. 40 Ncm
- Torque is applied to the center of the bar, which will be generated by pulling the bar
- The product should be cleaned after use, and then sterilized for storage

Ratchet Wrench



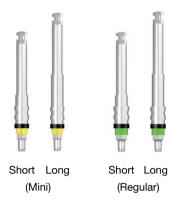
Code CITQW-1185A

• Packing Unit: each part

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- Only surgical unlimited wrench (If excessive torque is applied, the inside of bone or fixture may be damaged.)
- Rotating direction is marked by an arrow for convenient identification

NoMount Driver for TS



Туре	Mini	Regular
Short	GSNMD32S	GSNMD35S
Long	GSNMD32L	GSNMD35L

- Packing Unit: each part
- To enable the simultaneous measurement of gingival height upon treatment, grooves and laser markings are indicated at 1-mm (1-6 mm) intervals.
- Stopper designed for the prevention of fracture of the holding part and occurrence of foreign matter such as blood stain during the surgery

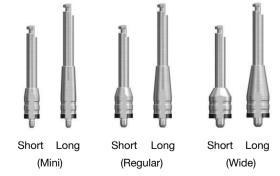
NoMount Driver for SS



Туре	Regular	Wide
Short	SSNOM	ID39RS
Long	SSNOMD39RL	

- Packing Unit: each part
- Since the shape is similar to that of the internal fixture driver, even a high torque does not change the inside of the fixture
- Stopper designed for the prevention of fracture of the holding part and occurrence of foreign matter such as blood stain during surgery

NoMount Driver for US



Length	Mini	Regular	Wide
Short	USNMD35MS	USNMD41RS	USNMD51WS
Long	USNMD35ML	USNMD41RL	USNMD51WL

Packing Unit: each part

- To enable the simultaneous measurement of gingival height upon treatment, grooves and laser markings are indicated at 1-mm (1-5 mm) intervals
- Stopper designed for the prevention of fracture of the holding part and occurrence of foreign matter such as blood stain during the surgery

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Surgical Instruments for OSSTEM IMPLANT

NoMount Torque Driver for TS



Туре	Mini	Regular
Short	GSNMT32S	GSNMT35S
Long	GSNMT32L	GSNMT35L
Extra Long	GSNMT32E	GSNMT35E

- Packing Unit: each part
- To enable the simultaneous measurement of gingival height upon treatment, grooves and laser markings are indicated at 1mm intervals
- Stopper designed for the prevention of fracture of the holding part and occurrence of foreign matter such as blood stain during surgery
- The fracture strength: 260Ncm
- If excessive implant torque is applied, fracture may be resulted in; if unnecessary
 large implant torque is expected, use a fixture driver. Also, imperfect installation
 may result in fracture at the strength under fracture strength; therefore, perfect
 installation should be checked before use
- Special attention should be paid; after occurrence of a fracture, restoration is impossible

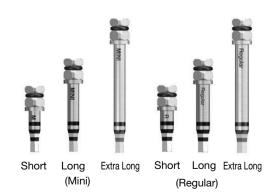
NoMount Torque Driver for SS



Туре	Regular	Wide
Short	SSNM	1T39S
Long	SSNN	1T39L

- Packing Unit: each part
- Since the shape is similar to that of the internal fixture driver, even a high torque does not change the inside of the fixture
- Stopper designed for the prevention of fracture of the holding part and occurrence of foreign matter such as blood stain during surgery
- The fracture strength: 260Ncm
- If excessive implant torque is applied, fracture may be resulted in; if unnecessary
 large implant torque is expected, use a fixture driver. Also, imperfect installation
 may result in fracture at the strength under fracture strength; therefore, perfect
 installation should be checked before use.
- Special attention should be paid; after occurrence of a fracture, restoration is impossible.

Fixture Driver for TS



Type	Mini	Regular
Short	GSMFDS	GSRFDS
Long	GSMFDL	GSRFDL
Extra Long	GSMFDE	GSRFDE

- Packing Unit: each part
- Fixture connection

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• Use to place or remove a fixture after the separation of the mount

Fixture Driver for SS



Plaftorm(ø)	Regular	Wide
Short	SSR	FDS
Long	SSRFDL	

- Packing Unit: each part
- The laser marking is designed for checking during the connection of a fixture
- Use for removal following fixture grafting and mount separation

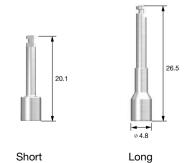
Fixture Driver for US



Platform(ø)	Mini	Regular	Wide
Code	USMFDL	USRFDL	USWFDL

- Packing Unit: each part
- The laser marking is designed for easy identification during the connection of fixtures
- Use for removal following fixture grafting and mount separation

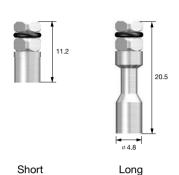
Simple Mount Driver



Length	Code
Short	ASMDS
Long	ASMDL

- Packing Unit: each part
- Use for fixture grafting by connecting to a simple mount
- Compact design, internal holding function

Simple Mount Extension



Length	Code
Short	ASMES
Long	ASMEL

- Packing Unit: each part
- Use for extension of simple mount length, and use in case of inputting hand-torque by connecting with ratchet wrench.

Simple Open Wrench



Code	ASOW
Oodc	70011

- Packing Unit: each part
- For weak bone, use to separate the simple mount
- 30° neck angle enhances convenience of insertion in the oral cavity

Removal Tool for Fixture Mount



Code	Application
ERFM	US Mini, TS Mini
HRFR	US Regular, SS Regular/Wide, TS Regular
ERFW	US Wide

- Packing Unit: each part
- When a fixture and the fixture mount are stuck, use after removing the fixture mount screw
- Use after the connection to a driver handle and a torque wrench
- Insert vertically and rotate clockwise

Tissue Punch



Tissue	Α	ø 3.3	ø 3.8	ø 4.3	ø 4.8	ø 5.3	
Punch	Code	OSTP33	OSTP38	OSTP43	OSTP48	OSTP53	
	TS	ø 4.0/ ø 4.5	ø 4.5/ø 5.0	ø 5.0	ø 6.0	ø 6.0	
Application Healing	SS	-	ø 4.8	-	ø 6.0	ø 6.0	
Abutment	US	ø 4.0	ø 5.0	ø 5.0	ø 6.0	ø 6.0	
Standard		It is recommended to use the tissue punch that has the diameter smaller than that of healing abutment by 0.7~1.5mm.					

- Packing Unit: Tissue Punch + Guide Pin
- Tool to be used for flapless surgery
- The laser marking at 2-mm intervals enables the measurement of gingival height

TS Bone Profiler

Connection	Healing abutment dia.	Bone Profiler type			Guide Screw
	ø 4.5	Ø4.5	GSBP45	Mini Connection	M
Mini & Regular	ø 5.5	Ø5.5 Ø5.5	GSBP55	Connection	
riogalai	ø 6.5	Ø7.5 3 1 s.	GSBP75	Regular Connection	\ \ \
	ø 7.5				

- Packing Unit : Bone Profiler + Guide Screw
- Use to remove the bone around the fixture during the first or second surgery
- It is used for compensation of the shape of healing abutment by eliminating the bone after connection of guide screw with the fixture
- The guide screw protects the morse taper of the fixtures

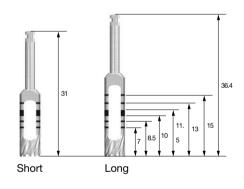
US Bone Profiler



	Platform(ø)							
ø A	Mini	Mini Regular Wide T-type						
4	ABPM400C	-	-	-				
5	ABPM500C	ABPR500C	-	-				
6	-	ABPR600C	ABPW600C	TBPW600C				
7	-	-	ABPW700C	-				

- Packing Unit : Bone Profiler + Guide Screw
- Use to remove the bone generated around the cover screws during the second surgery
- After removing the cover screws, connect the guide screw to the fixtures and use for the angle compensation of the healing abutments
- The guide screw protects the hex of the fixtures
- TiN coating improves anti-corrosion and wear resistance

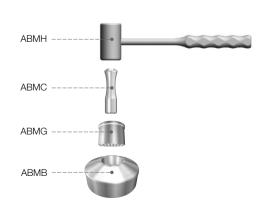
Trephine Drill



Code	Inner Dia.(ø)	Outer Dia.(Ø)	Length
TD37S	3.7	4.5	Short
TD42S	4.2	5.0	Short
TD47S	4.7	5.5	Short
TD52S	5.2	6.0	Short
TD62S	6.2	7.0	Short
TD37	3.7	4.5	Long
TD42	4.2	5.0	Long
TD47	4.7	5.5	Long
TD52	5.2	6.0	Long
TD62	6.2	7.0	Long

- Packing Unit: each part
- Use for the collection of bone or removal of damaged or failed fixtures
- Use for removal of Septal bone
- Trephine drill can be used as initial drill when to implant Ultra Fixture

Bone Mill



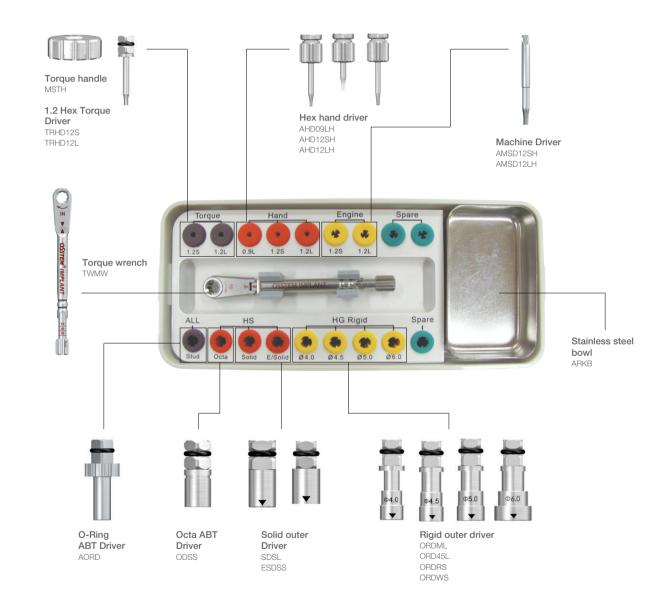
Code	ABM

- Packing Unit: each part
- Forms particulate bone using the collected autogenous bone

Prosthetic KIT (OPK)

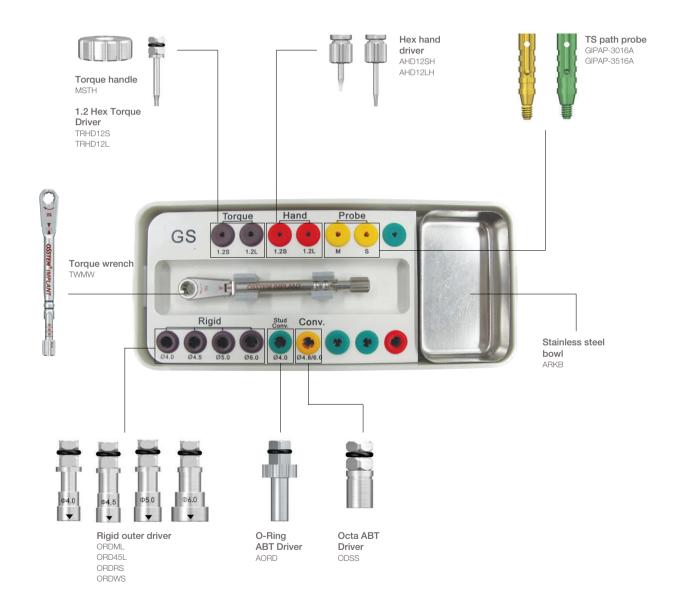
Use range (Use

USII	SSII	TSII	Ultra-wide	MS	os
USIII	SSIII	TSIII	Oitra-wide	IVIS	03



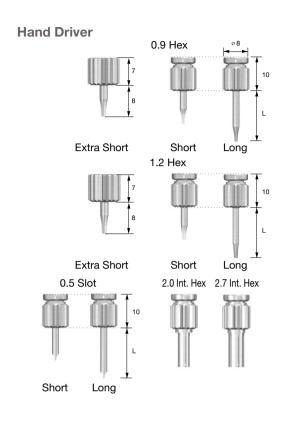
TS Prosthetic KIT (GSPK)

Use range (Use USII SSII TSII Ultra-wide MS OS



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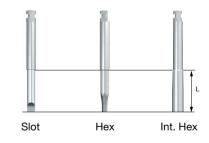
Prosthetic Tools for OSSTEM IMPLANT



Type	Extra Short	Short	Long	Application
L	8	10.3	15.5	-
0.5Slot	-	ASD05SH	ASD05LH	-
0.9Hex	AHD09MSH	AHD09SH	AHD09LH	Cover Screw (US Mini)
1.2Hex	AHD12MSH	AHD12SH	AHD12L H	Healing Abutment,UCLA, CementedAbutment Screw, Mount Screw
2.0 Int. Hex	-	IHD20H		Esthetic Abutment Screw Regular Esthetic-low Abutment Screw, Standard
2.7 Int. Hex	-	IHD	27H	Wide Esthetic-low Abutment Screw

- Packing Unit: each part
- Manual driver
- Tip holding function (note: excluding Int. Hex Type)
- Int. Hex L is 11

Machine Screw Driver



Type	Short	Long	Extra Long	Applicatation
L(Slot)	7	11	-	-
L(Hex)	5	9	15	
0.5Slot	AMSD05S	AMSD05L		-
0.9Hex	AMSD09S	AMSD09L		Cover Screw (US Mini)
1.2Hex	AMSD12S	AMSD12L	AMSD12E	Healing Abutment, UCLA, Cemented Abutment Screw, Mount Screw
2.0Int. Hex		EIHD20		Esthetic Abutment Screw Regular Esthetic-low Abutment Screw, Standard
2.7Int. Hex		EIHD27		Wide Esthetic-low Abutment Screw

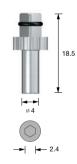
- Packing Unit: each part
- Machine screw driver
- Tip holding function (note: excluding Int. Hex Type)
- Int. Hex L is 8

Type	Short	Long	Extra Long	Application
L	9.5	15	25	-
0.5Slot	TRSD05S	TRSD05L	TRSD05E	-
0.9Hex	TRHD09S	TRHD09L	-	Cover Screw(US Mini)
1.2Hex	TRHD12S	TRHD12L	TRHD12E	Healing Abutment, UCLA,Cemented Abutment Screw, Mount Screw
2.0Int. Hex	TIHD20S	TIHD20L	-	Standard/ Esthetic Abutment Screw, Regular Esthetic-low Abutment Screw
2.7Int. Hex		TIHD27		Wide Esthetic-low Abutment Screw

- Packing Unit: each part
- Driver for torque wrench connection
- No tip holding function
- Fracture strength: 62Ncm
- Recommended torque should be observed. Caution: Fracture occurs, in case excessive torque is applied.
- When applying torque, check that the screw hex is completely installed. Application of torque with imperfect installation may result in a fracture at the strength under fracture strength.
- Torque should be applied vertically. (Do not tilt the set.)
- If the tip is bent due to the use for a long time or excessive torque, replace it.

AORD

O-ring Abutment Driver



Code	

- Packing Unit: each part
- Special-purpose driver for the O-ring abutment

Rigid Outer Driver



Spec.	Mini	Regular				
Abutment D(ø)	ø 4.0		ø 4.5	ø 5.0	ø 6.0	
Short	ORDMS		ORD45S	ORDRS	ORDWS	
Long	ORDML		ORD45L	ORDRL	ORDWL	

- Packing Unit: each part
- Special-purpose driver for rigid abutment
- Tightening torque : 30Ncm

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Solid Abutment Driver

Short

Long





Regular



Regular

Wide Platform (Ø) Regular Square Round Square Round SDSS SDRS SD60S Short SDSL SDRL Long

- Packing Unit: each part
- Driver for Solid abutment
- The triangle mark is used by aligning with the abutment groove
- Tightening torque : 30Ncm

Excellent Solid Abutment Driver







Long



Regular

Regular

Platform (ø)	Regular		Wide		
Length Type	Square	Round	Square	Round	
Short	ESDSS	ESDRS	ESD60S	-	
Long	ESDSL	ESDRL	-	-	

- Packing Unit: each part
- Driver for Excellent solid abutment
- The triangle mark is used by aligning with the abutment groove
- Tightening torque : 30Ncm

Octa Abutment Driver

Short





Long



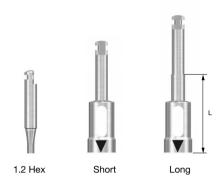
Length	Square	Round
Short	ODSS	ODRS
Long	ODSL	ODRL

- Packing Unit: each part
- Driver for Octa abutment
- Tightening torque : 30Ncm

2

Prosthetic Tools for OSSTEM IMPLANT

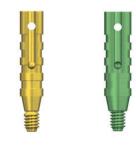
OSSTEM Torque Driver



Туре	Short	Long
L	10	15
1.2 Hex	OTH12S	-
Rigid ø 4.0	OTR40S	OTR40L
Rigid ø 4.5	OTR45S	OTR45L
Rigid ø 5.0	OTR50S	OTR50L
Rigid Ø 6.0	OTR60S	OTR60L
Solid	OTS48S	OTS48L
Excellent Solid	OTE48S	OTE48L

- Packing Unit: each part
- Driver for OSSTEM Torque
- The triangle mark is used by aligning with the abutment groove of section
- Tightening torque : 30Ncm(except 1.2 Hex Type)
- Solid and Excellent Solid Driver are compatible with ? 4.8 exclusively.
- Impossibility of connection with general hand piece
- 1.2Hex L(Tip length) is 5.

Path Probe for GS, TS



	Mini	Regular
Short	GIPAP-3016A	GIPAP-3516A

- Packing Unit: each part
- After GS,TS NoMount driver, confirmation path and measurement gingival height
- For mini : YellowFor Regular : Green

Connector



Code	ORC

- Packing Unit: each part
- Connector used for connecting the driver for square torque to the round torque wrench

Driver Handle



Code	TIDHC

- Packing Unit: each part
- Use by connecting with a torque driver

Dalbo Plus Screw Driver



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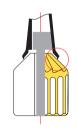
- Packing Unit: each part
- Use to adjust the retention force of Dalbo plus Attachment

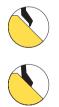
Finishing Reamer Set





- Packing Unit: each part
- Use to remove the lip inside the casting body upon the casting of plastic copings





- * How to use reamer
- A. Choose a reamer tip as same size as abutment and then connect the casting burm-out Cylinder.
- B. Hold the casting body and rotate reamer bite with consistent force
- C. Do reaming until cutting does not occur any longer

Prosthetic Tools for OSSTEM IMPLANT

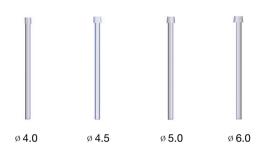
Reamer Bite



Code	FRBC

- Packing Unit: each part
- TiN coating improves anti-corrosion and wear resistance

Reamer Tip for Rigid Abutment



Abutment D (ø)	ø 4.0	ø 4.5	ø 5.0	ø 6.0
Code	GSRFRT400	GSRFRT450	GSRFRT500	GSRFRT600

- Packing Unit: each part
- When fabricating the prosthesis using a Rigid plastic coping, it is used for margin contact adjustment.

Reamer Tip for Solid, Ex. Solid Abutment

Wide

ø 6.0



ø 4.8

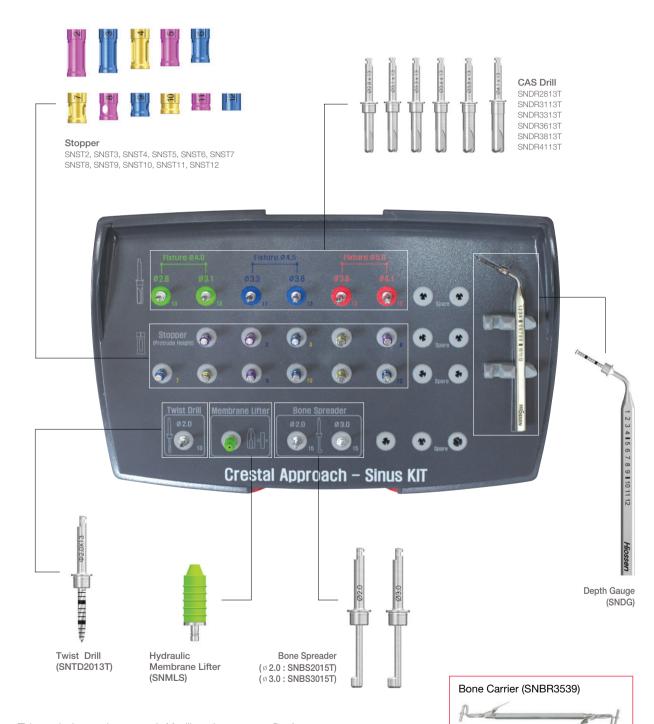
Abutment D (ø)	ø 4.8	ø 6.0
Solid	FRTS480	FRTS600
Excellent Solid	FRTE480	FRTE600

- Packing Unit: each part
- Combined use of Solid ø 6.0 and Excellent Solid ø 4.8

CAS-KIT (HCRSNK)



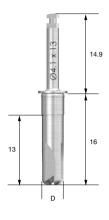
	,				
USII	SSII	TSII	I Iltro wido	MS	os
USIII	SSIII	TSIII	Ultra-wide	IVIS	03



- This surgical procedure use only Maxillary sinus surgery. Don't use for Mandible surgery.
- The CAS-KIT has a one year warranty on all parts & case.
- The recommended usage of the drills and stopper are 50 times.
- For more information, Please visit www.hiossen.com or see the Surgical Animation or Brochure.

Bone Condenser (SNBC2333) (Components in lower plate)

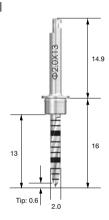
CAS-Drill



Fixture Ø	Fø 4.0		Fø4.5		Fø5.0	
Bone Density	Soft	Normal	Soft	Normal	Soft	Normal
D	ø 2.8	ø 3.1	ø 3.3	ø 3.6	ø 3.8	ø 4.1
Code	SNDR2813T	SNDR3113T	SNDR3313T	SNDR3613T	SNDR3813T	SNDR4113T

- Package unit : each part
- Make a conical bone lid for membrane safely lifting.
- Flexible Drilling speed ranges from low speed to high speed (800rpm) Especially, Bone harvesting in low speed(about 50rpm)
- Drill depth control by unique stopper systems.

Ø 2.0 Twist Drill



Code SNTD2013T

- Package unit : each part
- Under drilling than 2mm of remaining bone in CT or panorama
- Drill depth control by unique stopper systems.

Stopper



- Package unit : each part
- A total of eleven (11) stoppers; labeled 2 to 12mm
- Labels indicate the remaining length of the drill (from drill tip to stopper top)
- Each stopper is anodized and color coded. Labels are laser etched.

Drilling Sequence



- This surgical procedure use only Maxillary sinus surgery.
- Don't use for Mandible surgery.
- For more information, can visit www.hiossen.com



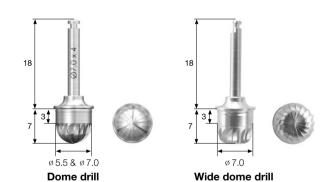
Fixture	Selection	Twist Drill	CAS-Drill					
F(Dø)	Bone Density	ø 2.0	ø 2.8	ø 3.1	ø 3.3	ø 3.6	ø 3.8	ø 4.1
ø 4.0		•	•					
ø 4.5	Soft	•	•		•			
ø 5.0		•	•				•	
ø 4.0		•		•				
ø 4.5	Normal	•		•		•		
ø 5.0		•		•				•

LAS-KIT (HLRSNK)

- Dome drill Ø 5.5/Ø 7.0 & Wide dome drill Ø 7.0, Core drill Ø 5.5/Ø 7.0, Side wall drill, Bone separator, Stopper 0.5 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0
- * Sinus Kit sold separately.



LAS Surgical Instruments for OSSTEM IMPLANT



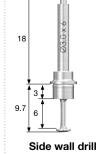
Dome Drill

- Macro and Micro cutting blades offer excellent cutting
- Cutting Speed: 1,200 ~ 1,500 RPM
- Drilling depth controlled with stopper system

Wide dome drill

- Used to widen the window after using Dome drill
- Excellent side cutting ability
- Drilling depth controlled with stopper system
- Cutting Speed: 1,200 ~ 1,500 RPM
- * Caution: Over drilling may cause membrane perforation.





Side wall drill

- Enlarges the window after using Dome drill
- Cutting Speed: 1,500 RPM
- Recommended to use cutting edge 1mm from the bottom.
- Drilling depth controlled with CAS-KIT Stopper system

CAS-KIT Stopper(mm)	Side wall drill length (H:mm)						
12	5						
11	4	<u></u>					
10	3	A P P P P P					
9	2	н 📜					
8	1						

LAS-KIT Plus (HLRSNKP)

• Dome drill \emptyset 5.5/ \emptyset 7.0 & Wide dome drill \emptyset 7.0, Core drill \emptyset 5.5/ \emptyset 7.0, Side wall drill, Bone separator, Stopper 0.5 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0



LAS Surgical Instruments for OSSTEM IMPLANT

• LAS-KIT Plus have a 5 tools of sinus lift in lower plate.



* Composition of lower plate

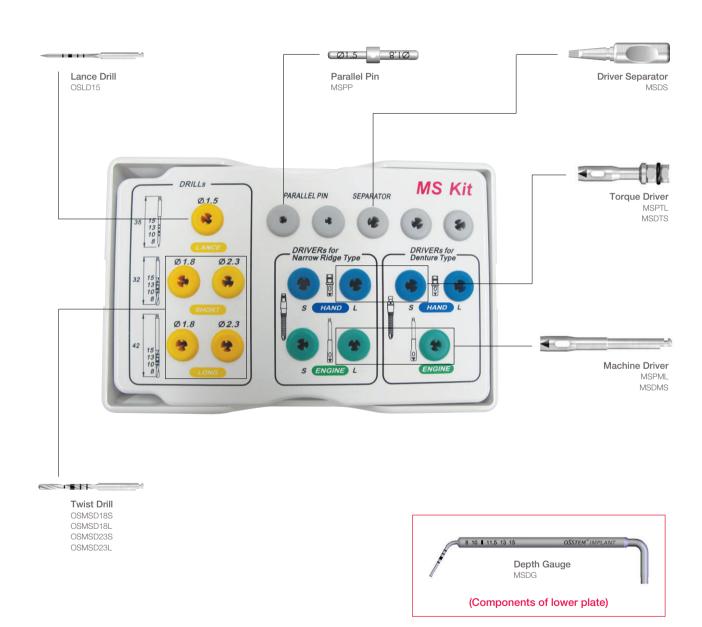
Freer Elevator: FREL
Bone Graft Carrier: BGCR
Membrane Separator: MBSP
Sinus Curette: Short - SNCRS
Sinus Curette: Long - SNCRL

Instru	ment		[D.		Code				
Dome drill		ø	5.5	LSDR554TD)			
		ø	7.0		LSDR74TD					
Wide do	me drill		ø	7.0		LSDR74WTD				
Core drill			ø (5.5	LSDR554TC			;		
Core	Core ariii			7.0		LSDR74TC				
Side w	all Drill			- SWDR36T			SWDR36T			
Bone Separator				- HST75						
Stopper	0.5	1	.0	1.5	5	2.0	2.5	3.0		

Code LSNSH0.5 LSNST1.0 LSNST1.5 LSNST2.0 LSNST2.5 LSNST3.0

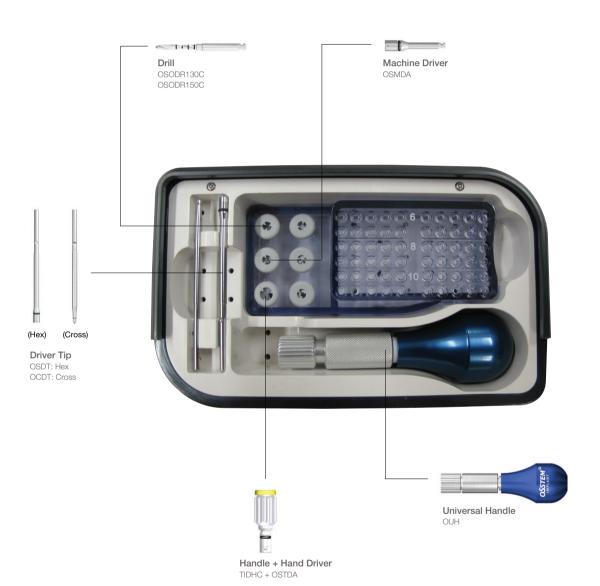
MS KIT (OMSK)





Use range (Use ____)

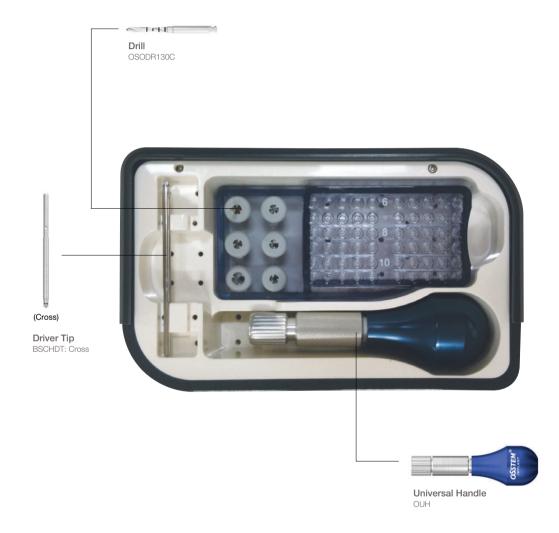
USII	SSII	TSII	Ultra-wide	MS	08
USIII	SSIII	TSIII	Oilla-wide	IVIO	03



Bone Screw KIT (BSSTKT)

Use range (Use ____)

USII	SSII	TSII	Ultra-wide	MS	os	DC
USIII	SSIII	TSIII	Oilia-wide	IVIS	03	БЗ



Custom KIT(OCTK)

Use range (Use)

USII	SSII	TSII	Ultra-wide	MS	00
USIII	SSIII	TSIII	Oilla-wide	IVIO	08



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OCTK

- When only part in the surgical operation organization sterilization, uses.
- Composition of additional rubber (small, middle, large)
- Use for autoclave (132℃, 15min)

Osteo KIT (OSTK)



OSTK

- Concave Osteotome : Use for maxillary sinus elevation for the vertical expansion of the volume of alveolar bone available in the maxillary posterior
- Expanding Osteotome : Without cutting low-quality bone, the preservation of the bone densifies the bone trabeculato enhance the initial bonding of implants
- Stopper for the adjustment of surgical depth

Dia.	Concave type	Expanding type
ø 2.0mm	OST20CA	OST20EA
ø 2.5mm	OST25CA	OST25EA
ø 3.0mm	OST30CA	OST30EA
ø 3.5mm	OST35CA	OST35EA
ø 4.0mm	OST40CA	OST40EA
Mallet	OSTMP	



Expanding type

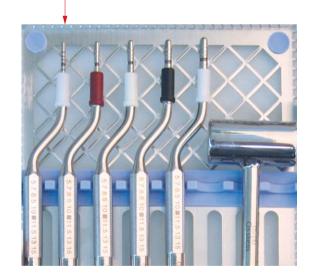
Osteotome KIT (AOST)



AOST

- Use for maxillary sinus elevation for the vertical expansion of the volume of alveolar bone available in the maxillary posterior
- Includes only the concave type
- Stopper for the adjustment of surgical depth

Dia.	Concave type
ø 2.0mm	OST20CA
ø 2.5mm	OST25CA
ø 3.0mm	OST30CA
ø 3.5mm	OST35CA
ø 4.0mm	OST40CA
Mallet	OSTM



Sinus KIT (ASLK)



ASLK

- Various types of tools (5) used for the sinus procedure
- Sinus operation instrument for lateral approach

Freer Elevator : OFE

Bone Graft Carrier: OBGC

Membrane Separator (Circle type) : OMSC

Sinus Currette-Short : OSCS Sinus Currette-Long : OSCL

Abutment Selector [TSASK]



TSASK

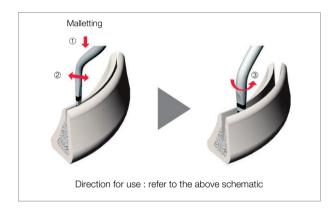
- The kits to be selected before selecting an abutment.
- ComponentRigid each 2ea. Total 28eaAngled each 1ea. Total 6ea
- Caution : Kit case sterilization impossibility

Bone Spreader KIT (OBSOK)

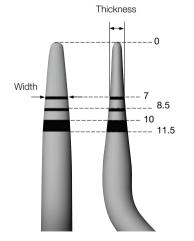


OBSOK

- Use for alvelar bone expansion
- Offset type for easy operation
- ** Components
 OBSO22F, OBSO28F, OBSO35F, OBSO35R



- Use for alveolar bone expansion
- Offset type for easy operation
- Depth marking corresponding to the implant length.



					(Unit : mm)
Code	Tip length Spec.	7	8.5	10	11.5
OBSO22F	Thickness	1.15	1.3	1.45	1.6
OB5022F	Width	2.1	2.2	2.2	2.2
OBSO28F	Thickness	1.15	1.3	1.45	1.6
	Width	2.65	2.8	2.8	2.8
OBSO35F	Thickness	1.3	1.45	1.6	1.8
	Width	3.3	3.5	3.5	3.5
OBSO35R (Round Type)	Thickness	1.85	2.1	2.3	2.55
	Width	3.3	3.5	3.5	3.5

Ridge Split KIT- Straight (ORSSK)



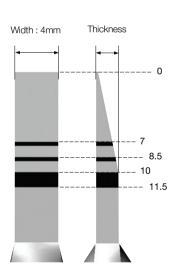
ORSSK

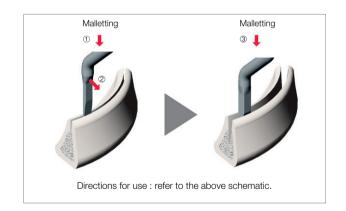
※ Components

Ridge Split Chisel: ORSS15, ORSS20, ORSS25, ORSS30

Blade Holder: ORSBH

- Chisel: Use to expand narrow alveolar bone
- Use to malletting by connecting #15 Blade in case of difficult incision in soft bone





(Unit:mm)

Code	Tip length Spec.	7	8.5	10	11.5
ORSS15	Thickness	1.1	1.27	1.5	1.5
OR5515	Width	Width 4 4 4 Thickness 1.45 1.7 2.0 Width 4 4 4 Thickness 1.8 2.15 2.5	4	4	
ORSS20	Thickness	1.45	1.7	2.0	2.0
	Width	4	4	4	4
ORSS25	Thickness	1.8	2.15	2.5	2.5
	Width	4	4	4	4
00000	Thickness	2.15	2.5	3.0	3.0
ORSS30	Width	4	4	4	4

Ridge Split KIT- Offset (ORSOK)



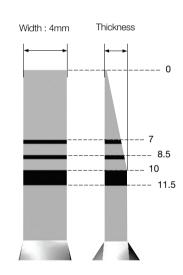
ORSOK

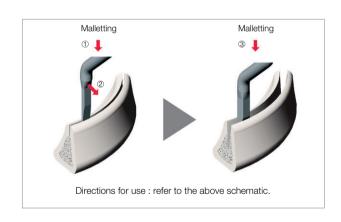
※ Components

Ridge Split Chisel: ORSO15, ORSO20, ORSO25,ORSO30

Blade Holder: ORSBH

- Use for alvelar bone expansion
- Offset type for easy operation





(Unit:mm)

					(01111 . 111111)
Code	Tip length Spec.	7	8.5	10	11.5
00015	Thickness	1.1	1.27	1.5	1.5
ORSO15	Width	4	4	4	4
ORSO20	Thickness	1.45	1.7	2.0	2.0
	Width	4	4	4	4
ORSO25	Thickness	1.8	2.15	2.5	2.5
	Width	4	4	4	4
ORSO30	Thickness	2.15	2.5	3.0	3.0
	Width	4	4	4	4

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OsstemGuide™ Surgical Components

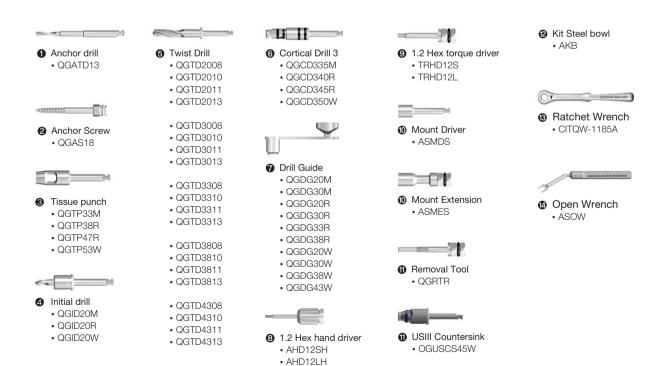
1. Implant System

- The implants that can be used with OsstemGuide are the tapered type implant systems of Osstem and Hiossen.
- ▶ If length of 7 or 15mm fixture is to be used, you should purchase the exclusively designed drill.

2. Surgical Kit (Code: OGDK) components







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OsstemGuide™ Surgical Components

- The tools that are clinically needed in addition to the tools provided with the OsstemGuide KIT are shown in the list below.

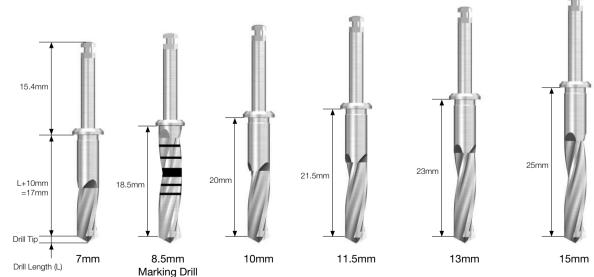


L	ø 2.0	ø 3.0	ø 3.3	ø 3.6	ø 3.8	ø 4.1	ø 4.3	ø 4.6
7	QGTD2007 *	QGTD3007 *	QGTD3307 *	QGTD3607 *	QGTD3807 *	QGTD4107 *	QGTD4307 *	QGTD4607 *
8.5				QGTD3608 *		QGTD4108 *		QGTD4608 *
10				QGTD3610 *		QGTD4110 *		QGTD4610 *
11.5				QGTD3611 *		QGTD4111 *		QGTD4611 *
13				QGTD3613 *		QGTD4113 *		QGTD4613 *
15	QGTD2015 *	QGTD3015 *	QGTD3315 *	QGTD3615 *	QGTD3815 *	QGTD4115 *	QGTD4315 *	QGTD4615 *
Drill Guide				QGDG36R * (Regular)		QGDG41R * (Regular)		QGDG46W * (Wide)

The products marked with " * " are not included in the kit and you should purchase them if needed.

3. Specific features of surgical drills

- All of the drills have the drill stops to meet OsstemGuide drill guides.
- Each drill has additional length of 10mm to meet the installation height of surgical template and drill guide.
- 8.5mm length drill is laser-marked at 7/8.5/10/11.5/13/15mm and can be used in common surgery without OsstemGuide
- Especially, although the lateral side of the drill touches the gingival during flapless operation, the uniquely designed drill does not damage the soft tissue.
- The tip length of \emptyset 2.0 drill is 0.6mm, \emptyset 3.0 drill is 0.9mm, and \emptyset 3.3 ~ \emptyset 4.6 drill is 1mm.



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OsstemGuide™ Surgical Components

4. OsstemGuide™ Mount

- The exclusively designed mount for OsstemGuide surgery is to be used for implantation after combination with the fixture. The configuration is different by the specification of the implant system.

Use it to meet the color of the sleeve combined with OsstemGuide template.

System	Fixture Dia.	Code	Color
TS/GS	3.5	QGHGMM	Yellow
	4.0 / 4.5	QGHGMR	Green
	5.0	QGHGMW	Purple

System	Platform Dia.	G/H	Code	Color
SS	4.8	1.8	OGSSMR18	Green
	4.6	2.8	OGSSMR28	Green
	6.0	2.0	OGSSMW20	Purple

System	Fixture Dia.	Code	Color
	3.5	OGUSMM	Yellow
US	4.0 / 4.5	OGUSMR	Green
	5.0	OGUSMW	Purple

TS / GS Mount







SS Mount







US Mount







5. OsstemGuide™ Cylinder Guide

- It is the exclusively designed prosthetic components for OsstemGuide and is used with combination with common fixture lab analog.

Use it to meet the color of the sleeve combined with OsstemGuide template.

System	Fixture Dia.	Code	Color
	3.5	QGHGCGM	Yellow
TS/GS	4.0 / 4.5	QGHGCGR	Green
	5.0	QGHGCGW	Purple

System	Fixture Dia.	G/H	Code	Color
ss	4.8	1.8	OGSSCGR18	Green
	4.0	2.8	OGSSCGR28	Green
	6.0	2.0	OGSSCGW20	Purple

System	Fixture Dia.	Code	Color
	3.5	OGUSCGM	Yellow
US	4.0 / 4.5	OGUSCGR	Green
	5.0	OGUSCGW	Purple

TS / GS Cylinder Guide



SS Cylinder Guide



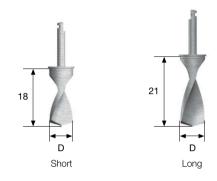
US Cylinder Guide



AutoBone Collector

Components

AutoBone Collector



Name	D	Code
Drill [Short]	ø 7.0	ABCD7014S
Stopper [Short]	ø 7.0	ABCSNST7144S
Drill [Long]	ø 7.0	ABCD7017L
Stopper [Long]	ø 7.0	ABCSNST7174L

Drill length: Long, Short.Drill speed: 300~600rpm

Caution: Recommend sterilize in an autoclave before surgery for drill and stopper.

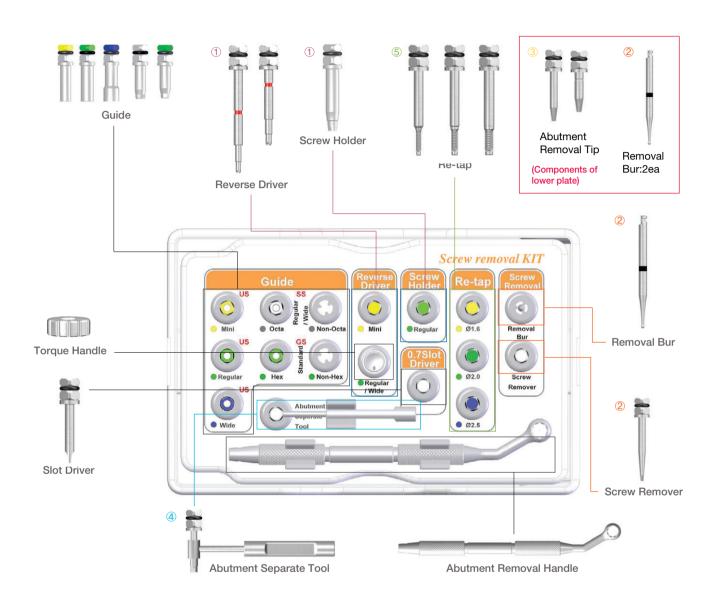
Bone Ejector



Nam	e	Code	
Bone Eje	ector	ABBE71L	

- Ejector the havested Bone in stopper.

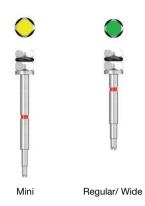
Screw removal KIT (OSSVK)



	MODE			Usable Tool
1	① Torque-free Screw Fracture Wedging		Non-load mode where fragments of the abutment screws are left on the fixture, and for which torque has been released, when the screws are broken during dental prosthesis or when in use	Guide, Abutment Removal Handle, Reverse Driver, Screw Holder, Connector
2			Mode whereby fragments of the abutment screws are left on the fixture with torque intact, or when wedging takes place, and is stubbornly fixed when the screws are broken during dental prosthesis or when in use	Guide, Abutment Removal Handle, Removal Bur, Screw Remover
3	Abutment Fail	Fracture	Mode where wedging takes place on the fragments of the abutment on the fixture, and is stubbornly fixed when the abutments are broken during use	Abutment Removal Handle & Tip
4	Abutilienti ali	Wedging	Mode where the abutments are caught in the fixture, and not released	Abutment Separate Tool
(5)	Fixture Fail	Thread Damage	Mode where the screws are not connected with the thread of the fixture because of damage caused to the threads during the connection and removal of the screws	Re-tap

Screw removal Tools for OSSTEM IMPLANT

Reverse Driver



	Mini	Regular/ Wide
Short	-	ORVDRS
Long	ORVDML	ORVDRL

- Packing Unit : each part
- Tool for removing broken screws
- This tool should be used together with the guide for each system
- When the marked part of the reverse drill is exposed above the guide connected to the fixture, make use of the screw-older to remove the broken Screws
- Hand type
- Mode: Counter clockwise
- Lifecycle: Ten uses
- Color coding for easy discrimination of the specifications

Mini: Yellow, Regular/ Wide: Green

Guide



		Mini	Regular	Wide
TS	Non-Hex	OGGMN	OGGSN	-
13	Hex	OGGM	OGGS	-
SS	Non-Octe	-	OSGRN	
33	Octe	-	OSGR	
US	Hex	OUGM	OUGR	OUGW

- Packing Unit : each part
- Guide used to prevent the reverse driver, the removal bur and the re-tap from centering or vibrating
- The guide should be used after connecting to the abutment removal handle
- Color coding for easy discrimination of the specifications Mini: Yellow, Regular : Green, Wide : Blue

Screw Holder



	Mini	Regular	Wide	
Code	OSHM	OSHR	OSHW	

• Packing Unit : each part

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- This tool is used for removal of fractured screw; expose the fractured screw by 1-2 threads using a reverse driver, push it on the fractured screw for combination, and remove the fractured screw.
- Color coding for easy discrimination of the specifications Mini: Yellow, Regular: Green, Wide: Blue

Re-tap



	Mini(M1.6)	Regular(M2.0)	Wide(M2.5)
Code	ORTM	ORTR	ORTW

- Packing Unit : each part
- Tool used for forming new threads if a screw is not connected because the threads inside the fixture have been damaged
- Color coding for easy discrimination of the specifications Mini: Yellow, Regular : Green, Wide : Blue

Abutment Removal Tip



	Mini	Regular
Code	OARTM	OARTR

- Packing Unit : each part
- This tool is used when part of a broken abutment or mount gets caught in the fixture
- Remove the fragment by shaking it with a forceps when connecting the fragment into the hole of the broken abutment, and then turn the connected part counter clock wise and fix the part
- This tool is also used for removing a screw if it is not possible to remove the screw because the hex of the screw has slipped in the case of the Mini
- It is possible to remove the screw by turning the screw counterclockwise and fixing the screw after connecting it to the slipped hex
- * Mini: Makes it possible to remove a screw whose hex has slipped

ABT Removal Tool



Code	OARH

- Packing Unit : each part
- This tool should be used in conjunction with the guide

Slot Driver

Torque Handle

Removal Bur



Code OTSD07

• Packing Unit : each part

Screw removal Tools for OSSTEM IMPLANT

 Tool to be used after forming a slot with a bur of Ø 0.8 if it is not possible to exert force with the driver because of damage to the hex of the healing abutment, the cover screw and the abutment screw

Code MSTH

- Packing Unit : each part
- This tool is used for initial manual installation after connecting it to the connection section of the torque driver

Code ORB

- Packing Unit : each part
- Tool for removing broken screws
- This tool is used for forming a hole on the broken surface of the screw if it is not possible to remove the screw with a reverse driver
- Rotation direction: Clockwise

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- Recommended rotation speed: 1500 ~5000 rpm
- This tool should be used in conjunction with the guide
- It is necessary to minimize the generation of heat by pumping and water injection, and to remove any chips left behind after removing the screw with a suction tool

Screw Remover



Code OSR

- Packing Unit : each part
- Rotate the screw remover in the reverse direction in the hole of the broken surface of the screw formed by the removal bur to remove a broken screw
- Mode: Counter clockwise

Transfer Abutment Separate Tool

Driver

Body





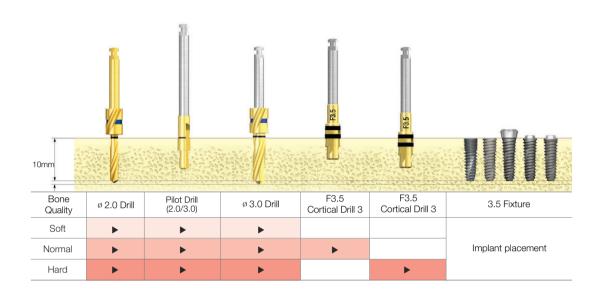
Туре	Code
Driver	TASD
Body	TASB
Set	TAST

- Packing Unit : each part
- This tool is used for removing the transfer abutment of non-hex-type caught in the fixture as a result of contact with a Morse Taper
- The terminal of the body is the Mini. The standard tool is inserted into the grooves in two stages in common use
- Insert the separate tool body into the hole inside the abutment after removing the abutment screw, and tighten the driver in a clockwise direction to combine the body and the abutment for easy separation Use the tool after connecting the ratchet wrench to the driver, if it is hard to separate

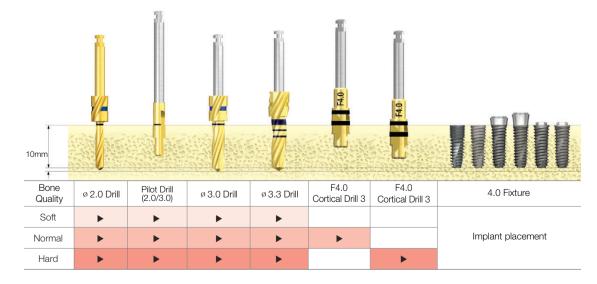
TSIII / GSIII RBM / SSIII SA / SSIII RBM / USIII SA / USIII RBM

TSIII / GSIII RBM / SSIII SA / SSIII RBM / USIII SA / USIII RBM Fixture (Straight Drill)

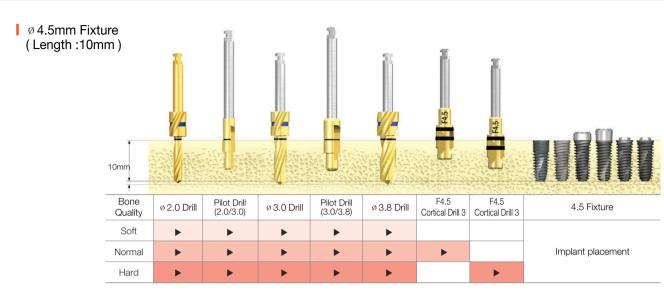
Ø 3.5mm Fixture (Length:10mm)

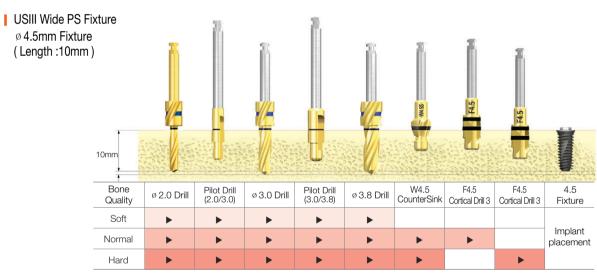


Ø 4.0mm Fixture (Length:10mm)

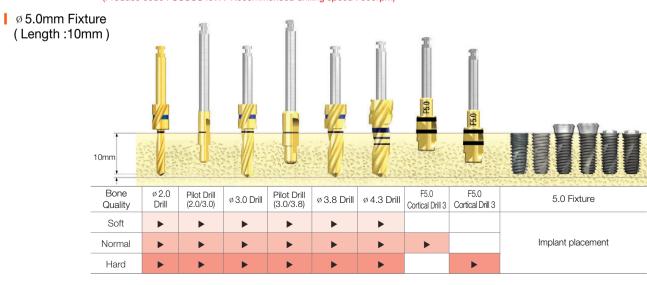


- * Recommended implant torque: 40Ncm or less
- * TSIII HA Fixture, SSIII Fixture (Recommended implant torque : 35Ncm or less)
 - It may crack or separate HA coating layer in case of hard bone and the use is not guided.
- ****** TS/GS fixture implant depth guide
- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.





* CounterSink is available as a single unit for Wide PS 4.5 of USIII Fixture. (Produce code: USSCS45W / Recommended drilling speed: 300rpm)



X TS/GS fixture implant depth guide

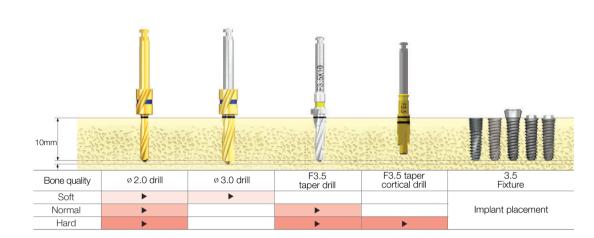
- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.

Drilling Sequence for

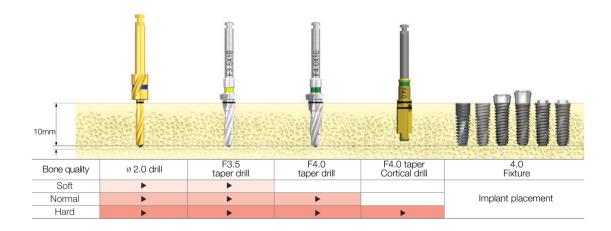
TSIII / GSIII RBM / SSIII SA / SSIII RBM / USIII SA / USIII RBM

TSIII / GSIII RBM / SSIII SA / SSIII RBM / USIII SA / USIII RBM (Taper Drill)

Ø 3.5mm Fixture (Length:10mm)



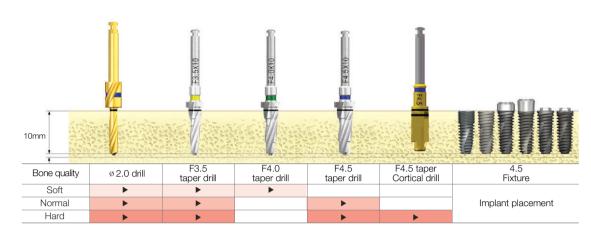
Ø 4.0mm Fixture (Length:10mm)



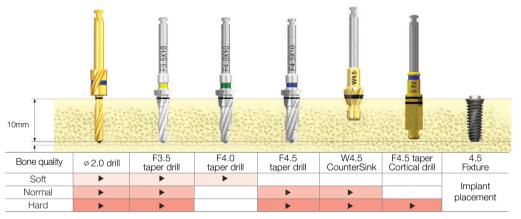
X Taper Cortical Drill

- The lower end of marking line is used for implantation of 8.5mm or smaller fixture.
- The upper end of marking line is used for implantation of 10mm or larger fixture.
- * Recommended implant torque: 40Ncm or less
- * TSIII HA Fixture, SSIII Fixture (Recommended implant torque : 35Ncm or less)
- It may crack or separate HA coating layer in case of hard bone and the use is not guided.
- * TS/GS fixture implant depth guide
- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.

Ø 4.5mm Fixture (Length:10mm)

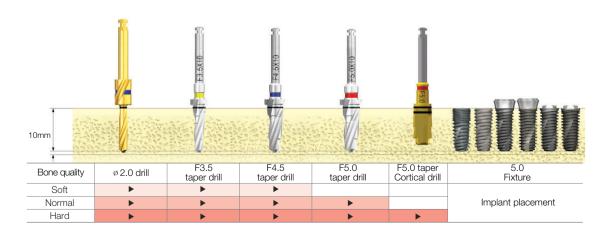


US III Wide PS Fixture Ø 4.5mm Fixture (Length:10mm)



^{**} CounterSink is available as a single unit for Wide PS 4.5 of USIII Fixture. (Produce code: USSCS45W / Recommended drilling speed: 300rpm)

Ø 5.0mm Fixture (Length:10mm)



* TS/GS fixture implant depth guide

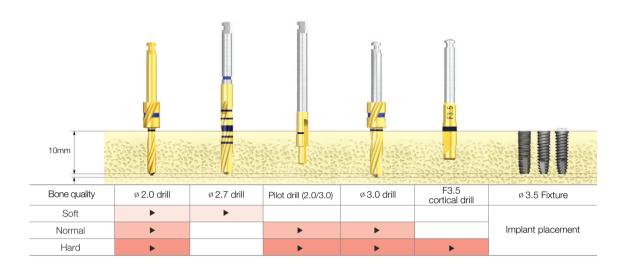
- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.

Drilling Sequence for

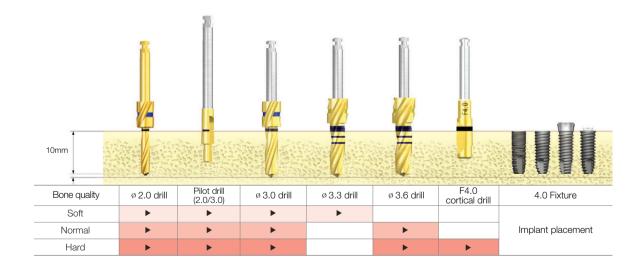
TSII / GSII RBM / SSII SA / USII SA

TSII / GSII RBM / SSII SA / USII SA Fixture

ø 3.5mm Fixture (Length:10mm)



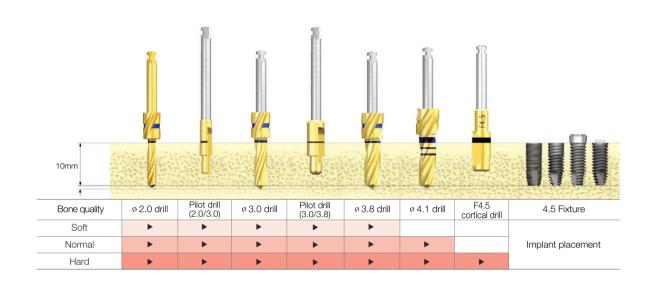
Ø 4.0mm Fixture (Length:10mm)



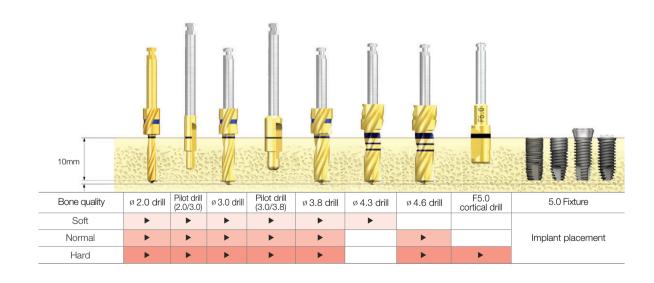
* TS/GS fixture implant depth guide

- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.

ø 4.5mm Fixture (Length:10mm)



ø 5.0mm Fixture (Length:10mm)

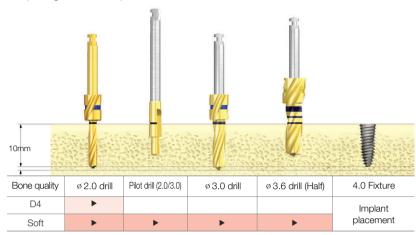


- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.

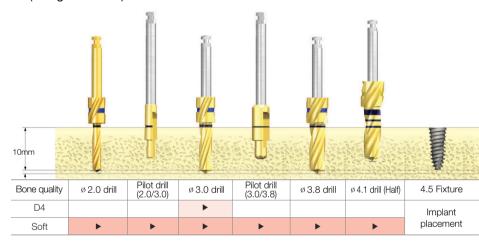
Drilling Sequence for TSIV

TSIV Fixture (Straight Drill)

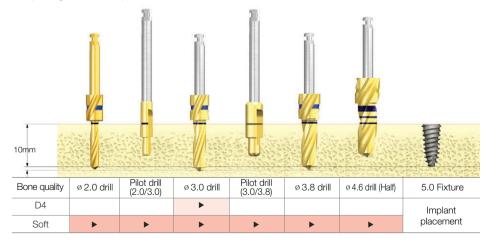
Ø 4.0mm Fixture (Length: 10mm)



Ø 4.5mm Fixture (Length:10mm)



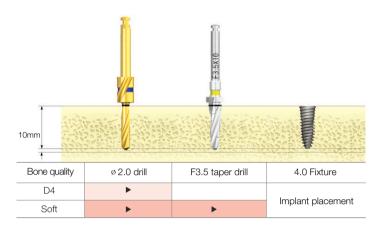
ø 5.0mm Fixture (Length:10mm)



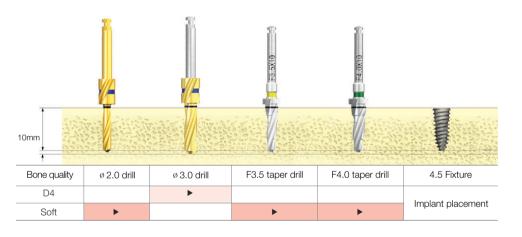
- * Recommended implant torque: 40Ncm or less
- * TSIV Fixture is used for implantation in maxillary sinus or soft bone and, in case of normal or higher-quality bone, guide is not required.
- ** TSIV Fixture has large thread pitch and high implantation speed; therefore, it is recommended to perform implantation with reduction of the speed to 15rpm or lower level.

TSIV Fixture (Taper Drill)

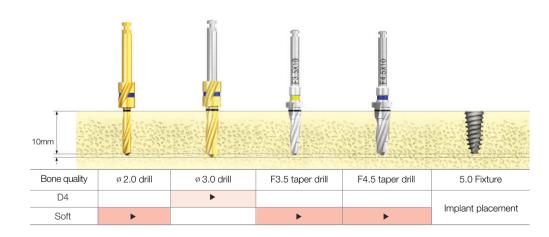
ø 4.0mm Fixture (Length: 10mm)



Ø 4.5mm Fixture (Length:10mm)



Ø 5.0mm Fixture (Length:10mm)

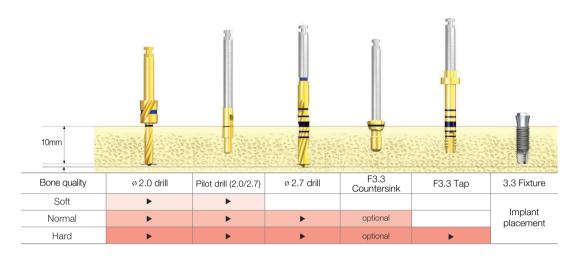


- * Recommended implant torque: 40Ncm or less
- * TSIV Fixture is used for implantation in maxillary sinus or soft bone and, in case of normal or higher-quality bone, guide is not required.
- ** TSIV Fixture has large thread pitch and high implantation speed; therefore, it is recommended to perform implantation with reduction of the speed to 15rpm or lower level.

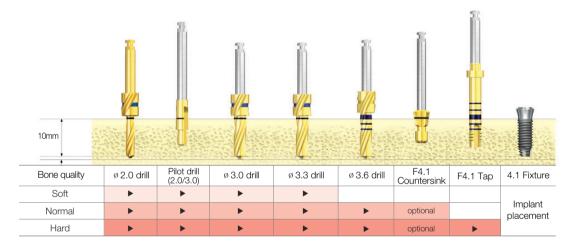
Drilling Sequence for SSII RBM

SSII RBM Fixture

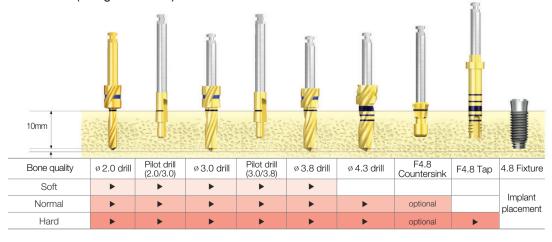
ø 3.3mm Fixture (Length: 10mm)



Ø 4.1mm Fixture (Length: 10mm)



Ø 4.8mm Fixture (Length: 10mm)

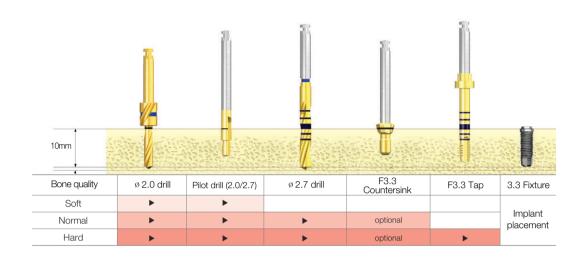


* Recommended implant torque: 40Ncm or less

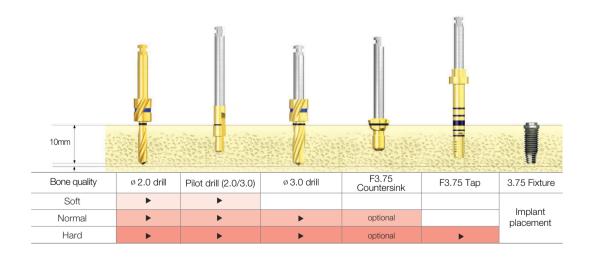
Drilling Sequence for USII RBM

USII RBM Fixture

ø 3.3mm Fixture (Length:10mm)



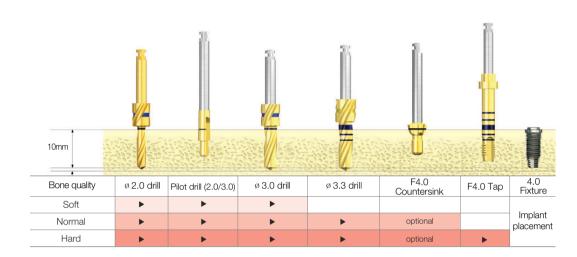
ø 3.75mm Fixture (Length: 10mm)



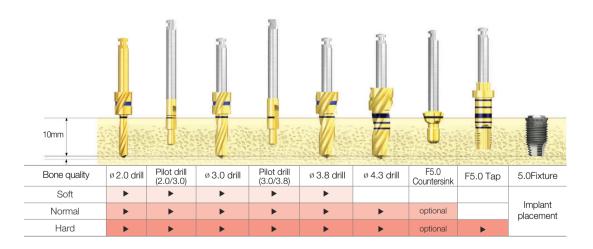
※ Recommended implant torque: 40Ncm or less

USII RBM Fixture

Ø 4.0mm Fixture (Length: 10mm)



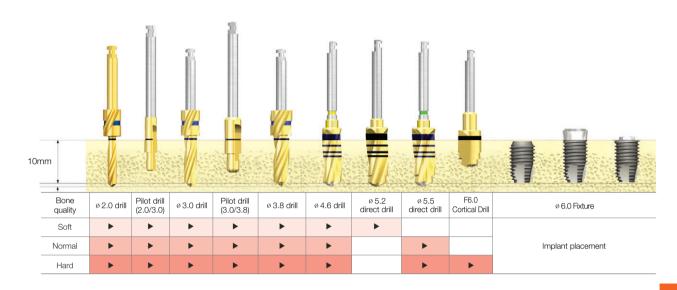
Ø 5.0mm Fixture (Length: 10mm)



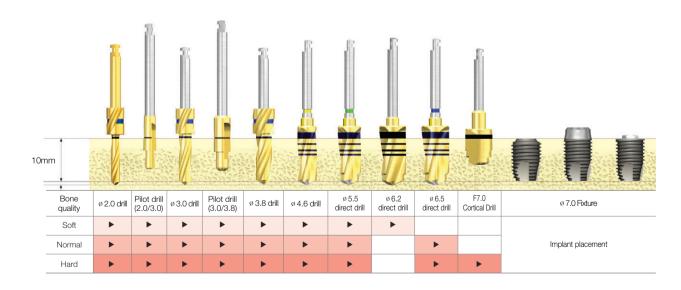
Drilling Sequence for Ultra-Wide®

GSII / SSII / USII RBM Ultra-Wide® Fixture

ø 6.0 mm Fixture (Length: 10mm)



Ø 7.0 mm Fixture (Length: 10mm)

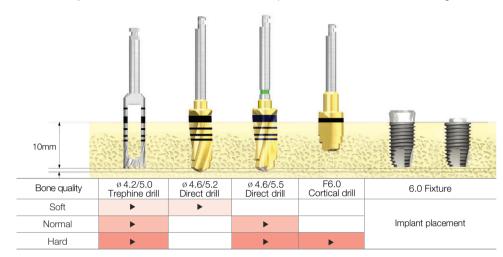


* Recommended implant torque: 40Ncm or less ※ Recommended implant torque: 40Ncm or less

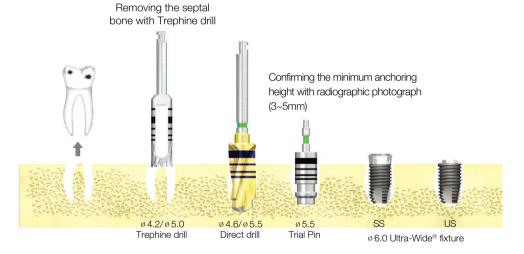
Drilling Sequence for Ultra-Wide®

SSII / USII RBM Ultra-Wide® Fixture

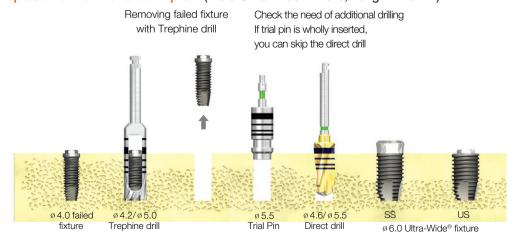
I Drilling Sequence with Trephine in the healed mature bone (Ø 6.0 Ultra-Wide® fixture, Length : 10mm)



Immediate placement at the extraction socket (Ø 6.0 Ultra-Wide® fixture, Length : 10mm)

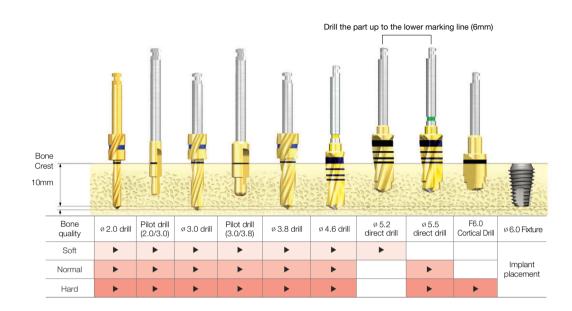


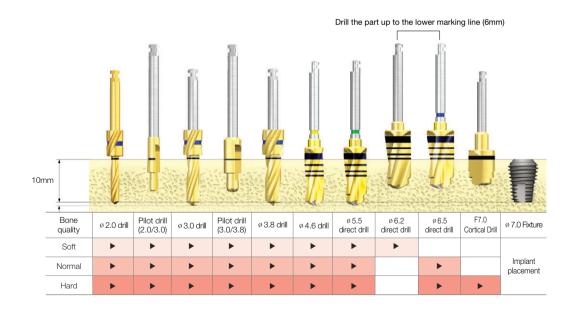
Immediate replacement of the failed implant (Ø 6.0 Ultra-Wide® fixture, Length : 10mm)



TSIII SA Ultra-Wide® Fixture (Straight Drill)

ø 6.0 mm Fixture (Length : 10mm)





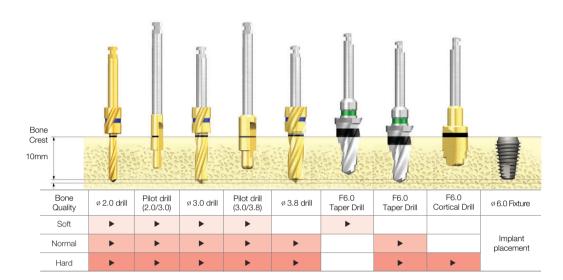
- ※ Recommended implant torque : 40Ncm or less
- * TS/GS fixture implant depth guide
- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.

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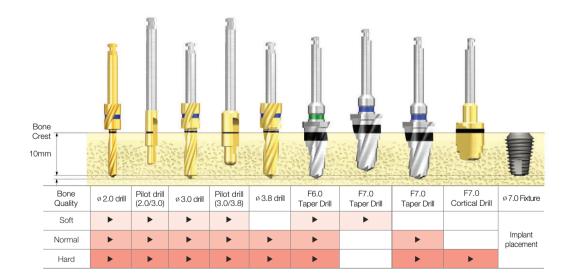
Drilling Sequence for Ultra-Wide®

TSIII Ultra-Wide® Fixture (Taper Drill)

ø 6.0 mm Fixture (Length : 10mm)

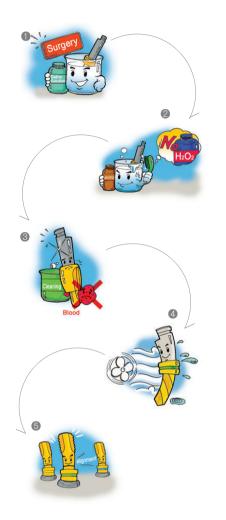


Ø 7.0 mm Fixture (Length: 10mm)



- * Recommended implant torque: 40Ncm or less
- * TS/GS fixture implant depth guide
- In case of normal or higher-quality bone, it is recommended to implant deeper than bone level by 1mm or less.
- In case of soft bone, it is recommended to implant to meet the bone level for maintenance of anchoring force.

How to manage KIT



- ① During operation, keep used tools in saline solution or in distilled water.
- ② When the operation has been completed, soak all the used tools in alcohol for washing.



Washing with hydrogen peroxide is prohibited. Exposure to hydrogen peroxide may discolor the laser marking and TiN coating.

- 3 Wash blood stains and other foreign matter clean with distilled water or flowing water.
- (4) Remove the moisture with a dry cloth or a hot air blower.
- ⑤ Set the dried tools in the KIT case.(Refer to the color coding for setting the tools in the kit case.)
- 6 After setting, sterilize the kit in an autoclave at 132 \uppi for 15 minutes and store room temperature.

Caution: After an operation, separate all the tools used in the operation immediately, and wash them before storage.

It is highly recommended to sterilize the Surgical KIT again before an operation (temperature: $132\,^{\circ}\text{C}$, time: $15\,\text{min}$)

The warranty period of the Surgical KIT is One Year after first opening the package, and the warranty cycles of the Drills and Drivers is 50 cycles.

Actual Dimensions of TSII / USII SA

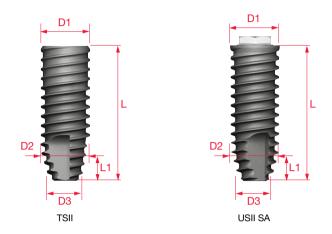
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TSIII / GSIII RBM / SSIII SA / SSIII RBM / USIII SA / USIII RBM Fixture

TSII / USII SA Fixture



					(Unit : mm)
	L	D1	D2	D3	L1
	8.5	3.8	3.4	2.5	1.3
Eivturo 2 E	10.0	3.8	3.3	2.5	1.3
Fixture 3.5	11.5	3.8	3.2	2.5	1.3
	13.0	3.8	3.2	2.5	1.3
	15.0	3.8	3.1	2.5	1.3
	L	D1	D2	D3	L1
	7.0	4.3	4.0	2.8	1.0
	8.5	4.3	3.9	2.8	1.3
Fixture 4.0	10.0	4.2	3.8	2.8	1.3
	11.5	4.2	3.7	2.8	1.3
	13.0	4.2	3.7	3.1	4.0
	15.0	4.2	3.7	3.1	5.0
	L	D1	D2	D3	L1
	7.0	4.7	4.4	3.1	1.0
	8.5	4.6	4.3	3.1	1.3
Fixture 4.5	10.0	4.6	4.2	3.1	1.3
	11.5	4.6	4.1	3.1	1.3
	13.0	4.6	4.1	3.5	4.0
	15.0	4.6	4.1	3.5	5.0
	L	D1	D2	D3	L1
	6.0	5.1	4.9	3.7	1.0
	7.0	5.1	4.9	3.7	1.0
Fixture 5.0	8.5	5.1	4.8	3.7	1.3
Fixture 5.0	10.0	5.1	4.8	3.7	1.3
	11.5	5.1	4.7	3.7	1.3
	13.0	5.1	4.8	4.0	4.0
	15.0	5.1	4.7	4.0	5.0



					(Unit : mm
	L	D1	D2	D3	L1
5 0.5	8.5	3.5	3.5	2.6	2.0
	10.0	3.5	3.5	2.6	2.5
Fixture 3.5	11.5	3.5	3.5	2.6	2.5
	13.0	3.5	3.5	2.6	2.5
	15.0	3.5	3.5	2.6	2.5
	L	D1	D2	D3	L1
	7.0	4.2	4.1	2.9	1.5
Fixture 4.0	8.5	4.2	4.1	2.9	2.0
	10.0	4.2	4.1	2.9	2.5
(USII SA)	11.5	4.2	4.1	2.9	2.5
	13.0	4.2	4.1	2.9	2.5
	15.0	4.2	4.1	2.9	2.5
	L	D1	D2	D3	L1
	7.0	4.2	4.2	2.9	1.5
Fixture 4.0 (TSII SA)	8.5	4.2	4.2	2.9	2.0
	10.0	4.2	4.2	2.9	2.5
	11.5	4.2	4.2	2.9	2.5
	13.0	4.2	4.2	2.9	2.5
	15.0	4.2	4.2	2.9	2.5
	L	D1	D2	D3	L1
	7.0	4.4	4.4	3.1	1.5
	8.5	4.4	4.4	3.1	2.0
Fixture 4.5	10.0	4.4	4.4	3.1	2.5
	11.5	4.4	4.4	3.1	3.0
	13.0	4.4	4.4	3.1	3.0
	15.0	4.4	4.4	3.1	3.0
	L	D1	D2	D3	L1
	6.0	5.0	5.0	4.3	0.5
	7.0	4.9	4.9	3.3	2.0
F: 1	8.5	4.9	4.9	3.3	2.0
Fixture 5.0	10.0	4.9	4.9	3.3	2.5
	11.5	4.9	4.9	3.3	3.0
	13.0	4.9	4.9	3.3	3.0
	15.0	4.9	4.9	3.3	3.0

TSIV Fixture





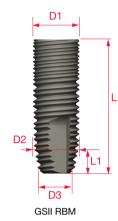
(Lloit - mana)

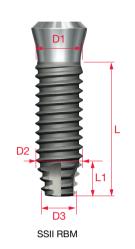
					(OTILL TITLE)
	L	D1	D2	D3	L1
	7.0	4.1	4.1	3.3	1.5
	8.5	4.1	4.1	3.3	2.0
Fixture 4.0	10.0	4.1	4.1	3.3	2.5
	11.5	4.1	4.1	3.3	2.5
	13.0	4.1	4.1	3.3	2.5
	15.0	4.1	4.1	3.3	2.5
	L	D1	D2	D3	L1
	7.0	4.4	4.4	3.7	1.5
	8.5	4.4	4.4	3.7	2.0
Fixture 4.5	10.0	4.4	4.4	3.7	2.5
	11.5	4.4	4.4	3.7	2.5
	13.0	4.4	4.4	3.7	2.5
	15.0	4.4	4.4	3.7	2.5
	L	D1	D2	D3	L1
Fixture 5.0	6.0	5.0	5.0	4.2	1.5
	7.0	4.9	4.9	4.2	1.5
	8.5	4.9	4.9	4.2	2.0
	10.0	4.9	4.9	4.2	2.5
	11.5	4.9	4.9	4.2	2.5
	13.0	4.9	4.9	4.2	2.5
	15.0	4.9	4.9	4.2	2.5



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	L	D1	D2	D3	L1
	7.0	4.45	3.8	1.8	2
Firston 4.0	8.5	4.45	3.9	1.8	3
Fixture 4.0	10.0	4.45	4.0	1.8	4
	11.5	4.45	4.0	1.8	5
	13.0	4.45	4.0	1.8	6
	L	D1	D2	D3	L1
Fixture 4.5	7.0	4.85	4.0	2.0	2
	8.5	4.85	4.2	2.0	3
	10.0	4.85	4.3	2.0	4
	11.5	4.85	4.3	2.0	5
	13.0	4.85	4.3	2.0	6
	L	D1	D2	D3	L1
Fixture 5.0	7.0	5.3	4.3	2.2	2
	8.5	5.3	4.6	2.2	3
	10.0	5.3	4.7	2.2	4
	11.5	5.3	4.7	2.2	5
	13.0	5.3	4.6	2.2	6



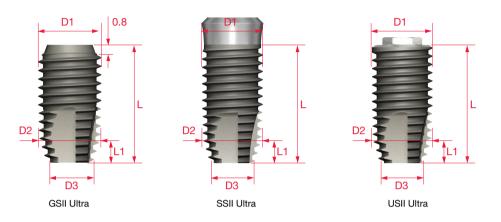


					(Unit : mm)
	L	D1	D2	D3	L1
	8.5	3.5	3.5	3.0	1.3
Fixture 3.5	10.0	3.5	3.5	3.0	2.4
Fixture 3.5	11.5	3.5	3.5	3.0	2.4
	13.0	3.5	3.5	3.0	2.4
	15.0	3.5	3.5	3.0	2.4
	L	D1	D2	D3	L1
	7.0	4.0	4.0	3.2	1.3
	8.5	4.0	4.0	3.2	1.3
Fixture 4.0	10.0	4.0	4.0	3.2	2.4
	11.5	4.0	4.0	3.2	2.4
	13.0	4.0	4.0	3.2	2.4
	15.0	4.0	4.0	3.2	2.4
	L	D1	D2	D3	L1
	7.0	4.4	4.4	3.7	1.3
	8.5	4.4	4.4	3.7	1.3
Fixture 4.5	10.0	4.4	4.4	3.7	2.4
	11.5	4.4	4.4	3.7	2.4
	13.0	4.4	4.4	3.7	2.4
	15.0	4.4	4.4	3.7	2.4
	L	D1	D2	D3	L1
	7.0	4.9	4.9	4.1	1.3
	8.5	4.9	4.9	4.1	1.3
Fixture 5.0	10.0	4.9	4.9	4.1	2.4
	11.5	4.9	4.9	4.1	2.4
	13.0	4.9	4.9	4.1	2.4
	15.0	4.9	4.9	4.1	2.4

					(Unit : mm)
	L	D1	D2	D3	L1
	8.5	3.3	3.3	2.7	2.5
Mini	10.0	3.3	3.3	2.7	2.5
P3.5 / ø3.3	11.5	3.3	3.3	2.7	2.5
	13.0	3.3	3.3	2.7	2.5
	15.0	3.3	3.3	2.7	2.5
	L	D1	D2	D3	L1
	7.0	4.1	4.1	2.9	2.2
Regular	8.5	4.1	4.1	2.9	2.2
P4.8 / Ø 4.1	10.0	4.1	4.1	3.2	3.0
P4.6 / Ø 4.1	11.5	4.1	4.1	3.2	3.0
	13.0	4.1	4.1	3.2	3.0
	15.0	4.1	4.1	3.2	3.0
	L	D1	D2	D3	L1
	7.0	4.8	4.8	3.9	2.2
Regular	8.5	4.8	4.8	3.9	3.0
P4.8 / Ø 4.8	10.0	4.8	4.8	3.9	3.0
P4.0 / Ø 4.0	11.5	4.8	4.8	3.9	3.0
	13.0	4.8	4.8	3.9	3.0
	15.0	4.8	4.8	3.9	3.0
	L	D1	D2	D3	L1
	7.0	4.8	4.8	4.0	2.2
Wide	8.5	4.8	4.8	4.0	2.2
	10.0	4.8	4.8	3.9	3.0
P6.0 / ø 4.8	11.5	4.8	4.8	3.9	3.0
	13.0	4.8	4.8	3.9	3.0
	15.0	4.8	4.8	3.9	3.0



					(Unit : mm)
Mini P3.5 / ø 2.4	L	D1	D2	D3	L1
	8.1	3.3	3.3	2.0	2.0
	9.6	3.3	3.3	2.5	2.0
	11.1	3.3	3.3	2.5	2.0
	12.6	3.3	3.3	2.5	2.0
	14.6	3.3	3.3	2.5	2.0
	L	D1	D2	D3	L1
	6.6	3.7	3.7	2.3	2.0
Regular	8.1	3.7	3.7	2.3	2.0
_	9.6	3.7	3.7	2.3	2.5
P4.1 / ø3.75	11.1	3.7	3.7	2.3	2.5
	12.6	3.7	3.7	2.3	2.5
	14.6	3.7	3.7	2.3	2.5
Regular P4.1 / ø4.0	L	D1	D2	D3	L1
	6.6	4.0	4.0	2.5	2.0
	8.1	4.0	4.0	2.5	2.0
	9.6	4.0	4.0	2.5	2.5
	11.1	4.0	4.0	2.5	2.5
	12.6	4.0	4.0	2.5	2.5
	14.6	4.0	4.0	2.5	2.5
	L	D1	D2	D3	L1
	6.6	5.0	5.0	3.3	2.0
Wide P5.1 / ø5.0	8.1	5.0	5.0	3.3	2.0
	9.6	5.0	5.0	3.0	2.5
	11.1	5.0	5.0	3.0	2.5
	12.6	5.0	5.0	3.0	2.5
	14.6	5.0	5.0	3.0	2.5
Wide P5.1 / ø5.5	L	D1	D2	D3	L1
	6.6	5.5	5.5	3.6	2.0
	8.1	5.5	5.5	3.6	2.0
	9.6	5.5	5.5	3.3	2.5
	11.1	5.5	5.5	3.3	2.5
	12.6	5.5	5.5	3.3	2.5
	14.6	5.5	5.5	3.3	2.5

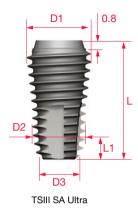


					(Unit : mm)
	L	D1	D2	D3	L1
	6.0	5.9	5.9	4.8	1.5
	7.0	5.9	5.9	4.8	1.5
Fixture 6.0	8.5	5.9	5.9	4.7	2
	10.0	5.9	5.9	4.7	2
	11.5	5.9	5.9	4.7	2.5
	13.0	5.9	5.9	4.7	2.5
	L	D1	D2	D3	L1
	6.0	6.9	6.9	5.8	1.5
	7.0	6.9	6.9	5.8	1.5
Fixture 7.0	8.5	6.9	6.9	5.7	2
	10.0	6.9	6.9	5.7	2
	11.5	6.9	6.9	5.7	2.5
	13.0	6.9	6.9	5.7	2.5

* SSII Ultra-wide : exception 6mm

Actual Dimensions of TSIII SA Ultra-Wide®

TSII SA Ultra-Wide® Fixture



					(Unit : mm)
	L	D1	D2	D3	L1
Fixture 6.0	6.0	6	5.5	4.5	1.4
	7.0	6	5.2	4.3	1.5
	8.5	6	5.1	4.2	2
	10.0	6	5.1	4.2	2.8
	11.5	5.9	5.0	4.2	3.3
	13.0	5.9	5.0	4.2	4.5
Fixture 7.0	L	D1	D2	D3	L1
	6.0	6.8	6.4	5.4	1.4
	7.0	6.8	6	5.2	1.5
	8.5	6.8	5.9	5.1	2.5
	10.0	6.8	5.8	5.1	3
	11.5	6.8	5.7	5.0	4
	13.0	6.8	5.7	4.9	5

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