

OSSTEM IMPLANT SYSTEM

2012 PRODUCT CATALOG



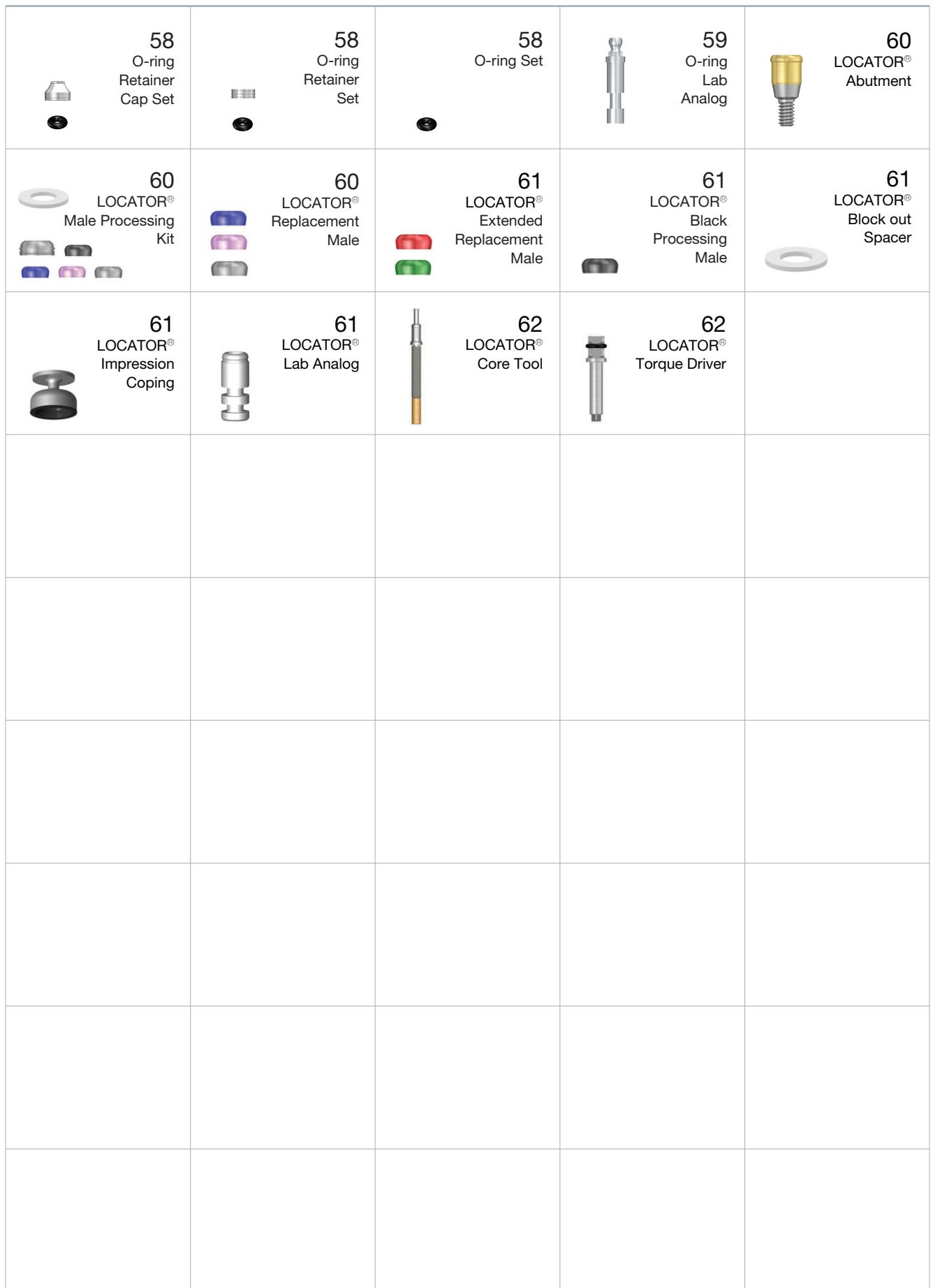
for **TS IMPLANT SYSTEM**

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TS & GS System

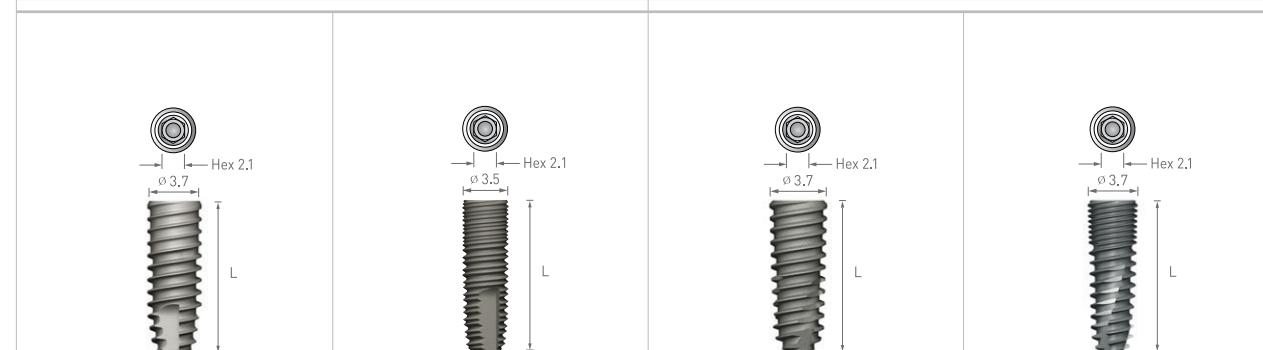
OSSTEM HISTORY



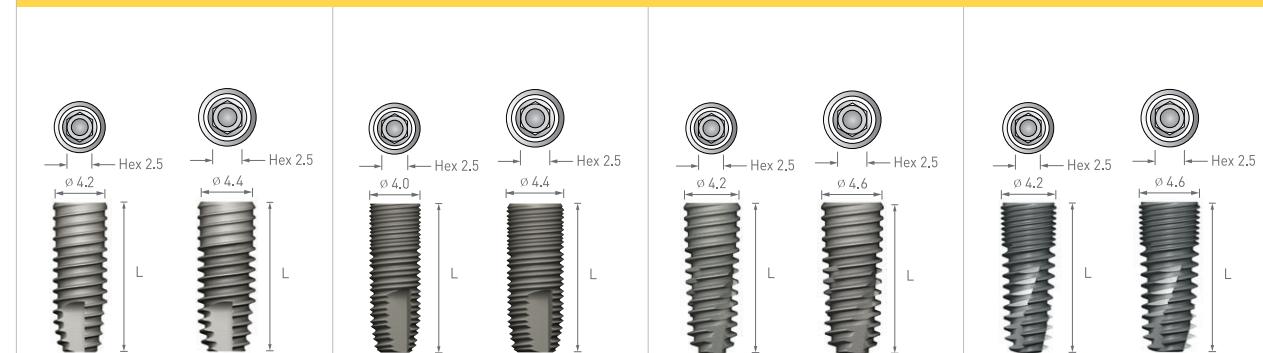
2011	Dec Introduces and commences commercial production of K2 Unit & Chair Nov Develops and begins commercial production of Smart Membrane Oct Registers and obtains approval from Health Canada Develops and begins commercial production of USII SA and 123 Kit Sep Establishes subsidiary offices in Dacca , Bangladesh and Ho Chi Minh City, Vietnam [OSSTEM Bangladesh Ltd. and OSSTEM IMPLANT Vina Co., Ltd.] Develops and begins commercial production of SSIII SA Registers and obtains approval from the Ministry of Health and Society in Vietnam Aug Establishes subsidiary offices in Manila, Philippines and Vancouver, Canada [OSSTEM Philippines Inc. and HiOssen Implant Canada Inc.] Jul Develops and begins commercial production of CustomFit Abutment Establishes subsidiary offices in Almaty, Kazakhstan [OSSTEM IMPLANT LLP] Jun Develops and begins commercial production of TSII SA Hosts 'OSSTEM World Meeting 2011 in Seoul' Apr Develops and begins commercial production of LAS Kit Establishes subsidiary offices in Jakarta, Indonesia [PT OSSTEM Indonesia] Mar Establishes subsidiary offices in Guadalajara, Mexico [HiOssen de Mexico] Feb Develops and begins commercial production of TSIV SA	2007	Mar Develops and begins commercial production of MS Lists on KOSDAQ (KRX: Korea Exchange)
2006	Dec Establishes subsidiary offices in Bangkok, Thailand and Kuala Lumpur, Malaysia [OSSTEM Thailand Co., Ltd. and OSSTEM Malaysia SDN, BHD] Nov Registers and obtains approval from the SFDA in China Sep Establishes subsidiary office in Philadelphia, U.S.A [HiOssen Inc.] Aug Establishes subsidiary offices in Beijing, China / Singapore and Hong Kong [OSSTEM China Co., Ltd. / OSSTEM Singapore Pte Ltd. and OSSTEM Hong Kong Ltd.] Jul Establishes subsidiary office in Tokyo, Japan [OSSTEM Japan Corp.] Apr Registers and obtains the GOST-R certification in Russia Opens 'OSSTEM World Meeting 2006 in Seoul' Publishes the '2006 OSSTEM IMPLANT SYSTEM' - Introduction and particulars of implant system Jan Establishes the subsidiary offices in Moscow, Russia and Mumbai, India [OSSTEM LLC. and OSSTEM IMPLANT India Pvt Ltd.]	2006	Dec Establishes subsidiary offices in Bangkok, Thailand and Kuala Lumpur, Malaysia [OSSTEM Thailand Co., Ltd. and OSSTEM Malaysia SDN, BHD] Nov Registers and obtains approval from the SFDA in China Sep Establishes subsidiary office in Philadelphia, U.S.A [HiOssen Inc.] Aug Establishes subsidiary offices in Beijing, China / Singapore and Hong Kong [OSSTEM China Co., Ltd. / OSSTEM Singapore Pte Ltd. and OSSTEM Hong Kong Ltd.] Jul Establishes subsidiary office in Tokyo, Japan [OSSTEM Japan Corp.] Apr Registers and obtains the GOST-R certification in Russia Opens 'OSSTEM World Meeting 2006 in Seoul' Publishes the '2006 OSSTEM IMPLANT SYSTEM' - Introduction and particulars of implant system Jan Establishes the subsidiary offices in Moscow, Russia and Mumbai, India [OSSTEM LLC. and OSSTEM IMPLANT India Pvt Ltd.]
2005	Dec Registers and obtains approval by the DOH in Taiwan Establishes the subsidiary office in Ashborn, Germany [OSSTEM Germany GmbH] May Develops and begins commercial production of GSII Apr Hosts 'OSSTEM World Meeting 2005 in Seoul' Mar Obtains KGMP(Korean Good Manufacturing Practice) in Korea Jan Establishes the subsidiary office in Taipei, Taiwan [OSSTEM Corporation]	2005	Dec Registers and obtains approval by the DOH in Taiwan Establishes the subsidiary office in Ashborn, Germany [OSSTEM Germany GmbH] May Develops and begins commercial production of GSII Apr Hosts 'OSSTEM World Meeting 2005 in Seoul' Mar Obtains KGMP(Korean Good Manufacturing Practice) in Korea Jan Establishes the subsidiary office in Taipei, Taiwan [OSSTEM Corporation]
2004	Nov Develops and begins commercial production of SSII Jul Develops and begins commercial production of USIII Apr Opens 'OSSTEM World Meeting 2004 in Seou'	2004	Nov Develops and begins commercial production of SSII Jul Develops and begins commercial production of USIII Apr Opens 'OSSTEM World Meeting 2004 in Seou'
2002	Oct Develops and begins commercial production of SSII Aug Registers and obtains approval by the FDA in the USA Develops and begins commercial production of USII Jan Establishes OSSTEM Implant R&D Center	2002	Oct Develops and begins commercial production of SSII Aug Registers and obtains approval by the FDA in the USA Develops and begins commercial production of USII Jan Establishes OSSTEM Implant R&D Center
2001	Mar Establishes AIC(Apsun Dental Implant Research & Education Center) Jan Obtains CE-0434 certification	2001	Mar Establishes AIC(Apsun Dental Implant Research & Education Center) Jan Obtains CE-0434 certification
1999	Dec Obtains ISO-9001 certification	1999	Dec Obtains ISO-9001 certification
1997	Dec Begins commercial production under the brand name of OSSTEM Jan Establishes OSSTEM IMPLANT Co., Ltd. in Seoul, Korea	1997	Dec Begins commercial production under the brand name of OSSTEM Jan Establishes OSSTEM IMPLANT Co., Ltd. in Seoul, Korea
1995	Develops dental implants and acquires industrial license	1995	Develops dental implants and acquires industrial license
1992	Initiates the development of dental implant system	1992	Initiates the development of dental implant system

OSSTEM Implant System Flow

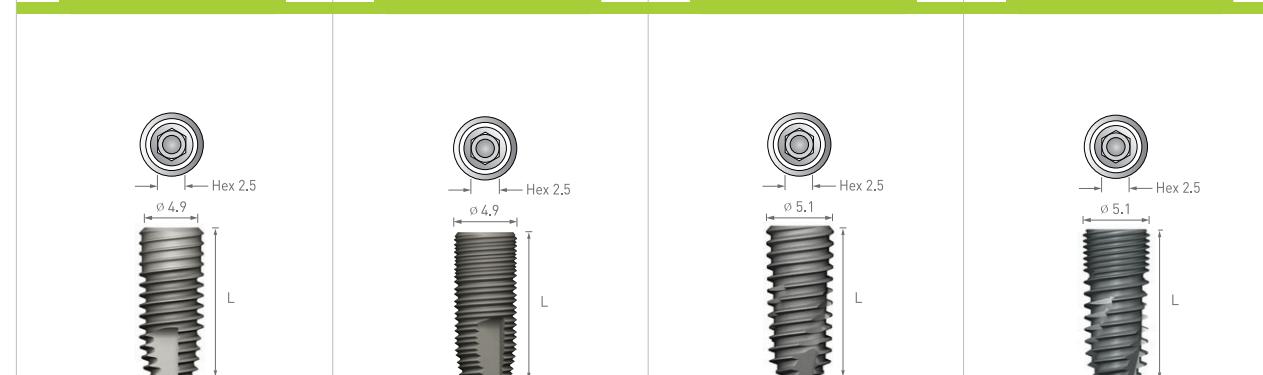
TSII	GSII	TSIII	GSIII
<ul style="list-style-type: none"> Bone level fixture of internal connection Harmonious macro & micro threads taking cortical bones and cancellous bones into consideration Expanded thread that helps have excellent initial stability Stable connection of the upper part based on Rigid Motion Connection Straight body with the implant depth adjusted easily Implement the cutting edge with excellent self tapping capacity Realize the convenient operation by making it possible to implant into various osseins 	<ul style="list-style-type: none"> The initial stability for immediate & early loading The good feeling of fixture implantation The convenience of implant surgery Bone level fixture of internal connection Stable connection of the upper part based on Rigid Motion Connection Realize the convenient operation by making it possible to implant into various osseins 		



L: 8.5 10 11.5 13 15 L: 8.5 10 11.5 13 15 L: 8.5 10 11.5 13 15 L: 8.5 10 11.5 13 15



L: 7 8.5 10 11.5 13 15 L: 7 8.5 10 11.5 13 15 L: 7 8.5 10 11.5 13 15 L: 7 8.5 10 11.5 13 15

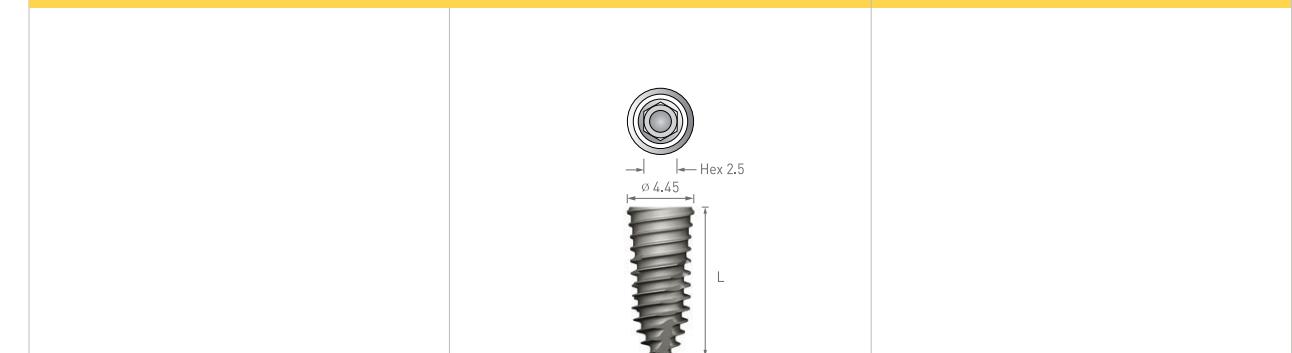


L: 6 7 8.5 10 11.5 13 15 L: 7 8.5 10 11.5 13 15 L: 6 7 8.5 10 11.5 13 15 L: 7 8.5 10 11.5 13 15

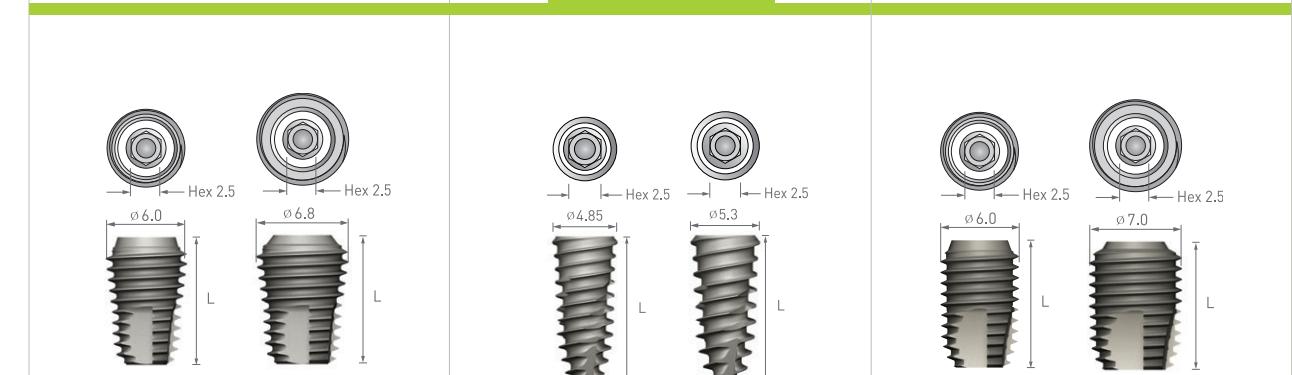
TSIII Ultra-Wide®	TSIV	GSII RBM Ultra-Wide®
<ul style="list-style-type: none"> Internal Hex & 11° morse taper connected, submerged fixture SA surface morphology and roughness increased by 45% compared to RBM treatment. Specially developed for maxilla and soft bones High success rate even with poor bone quality. Compatible with GS Regular abutment components Wide Diameter Fixture Improved design for initial stability and simplified surgical sequences Immediate placement at the extract socket Immediate replacement of the failed implant The actual length of TSIII Ultra-Wide Fixture is 0.5mm shorter than actual length. (Exception 7mm) 	<ul style="list-style-type: none"> Internal Hex & 11° morse taper connected, submerged fixture SA surface morphology and roughness increased by 45% compared to RBM treatment. Specially developed for maxilla and soft bones High success rate even with poor bone quality. Compatible with GS Regular abutment components Wide Diameter Fixture Improved design for initial stability and simplified surgical sequences Improved the initial stability with improved application of helical cutting, corkscrew thread, and sharp and rounded apex design where implant can be placed with minimal drilling. (Ø 2 or Ø 3mm can be used on D4 bone) 	<ul style="list-style-type: none"> Internal Hex & 11° morse taper connected, submerged fixture RBM : Excellent bio-affinity of surface Compatible with GS Regular abutment components Wide Diameter Fixture Indication <ul style="list-style-type: none"> Immediate placement at the extract socket Immediate replacement of the failed implant The actual length of GSII RBM Ultra-Wide Fixture is 0.5mm shorter than actual length. (Exception 7mm)



L: 7 8.5 10 11.5 13 13 L: 7 8.5 10 11.5 13 13



L: 7 8.5 10 11.5 13 13 L: 6 7 8.5 10 11.5 13 13 L: 6 7 8.5 10 11.5 13 13



L: 7 8.5 10 11.5 13 13 L: 6 7 8.5 10 11.5 13 13 L: 6 7 8.5 10 11.5 13 13

TS & GS Prosthesis Library

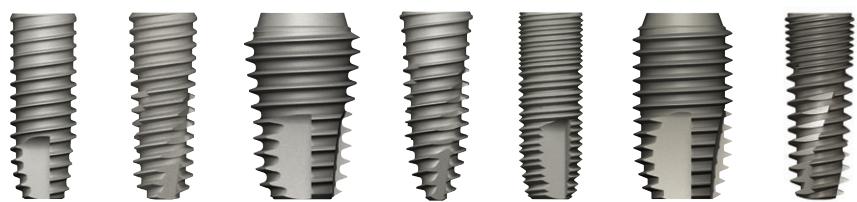
TS & GS System								
Cover Screw	Healing Abutment	TSII SA	TSIII SA	TSIII SA Ultra-Wide®	TSIV SA	GSII RBM	GSII RBM Ultra-Wide®	GSIII RBM
Type	Abutment	Protect Cap	Retraction Cap	Impression coping				
Rigid								
Transfer	 (Hex)	 (Non-Hex)						
Angled	 (A type)	 (B type)	 30°	 (Non-Hex)				
ZioCera/ ZioCera Angled	 (Hex)	 (Non-Hex)						
GoldCast/ NP-CAST	 (Hex)	 (Non-Hex)						
CustomFit								
FreeForm ST	 (Hex)	 (Non-Hex)						
Convertible				 Pick-up				
Stud					 O-rings System			
LOCATOR®			 Replacement Male	 O-rings System				

 (5.5 mm)	 (7.0 mm)	 (4.0 mm)	 (5.5 mm)	 (7.0 mm)	Etc
 (Hex)	 (Non-Hex)				Temporary Abutment
					Bite Index
 (Non-Hex)					
 Transfer		 Cylinder			Polishing Protect Cap
		 Cylinder			
		 Dalbo System			
		 Extended Replacement Male			
			 Core Tool		Torque Driver
				 Torque Driver	

OSSTEM IMPLANT SYSTEM

TS & GS System

Fixture and Restorative
Components



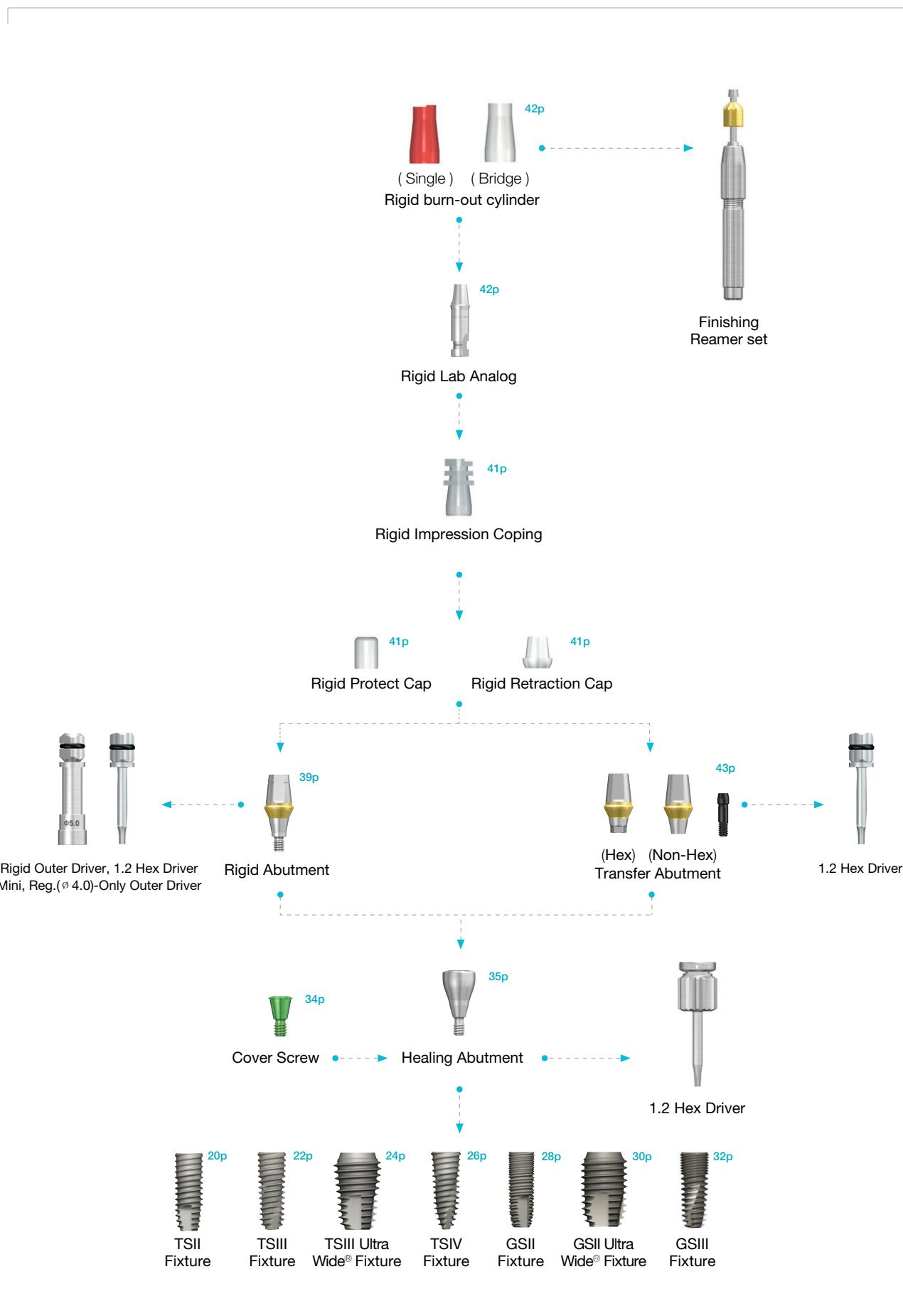
Early & Esthetic

OSSTEM IMPLANT

TS & GS System

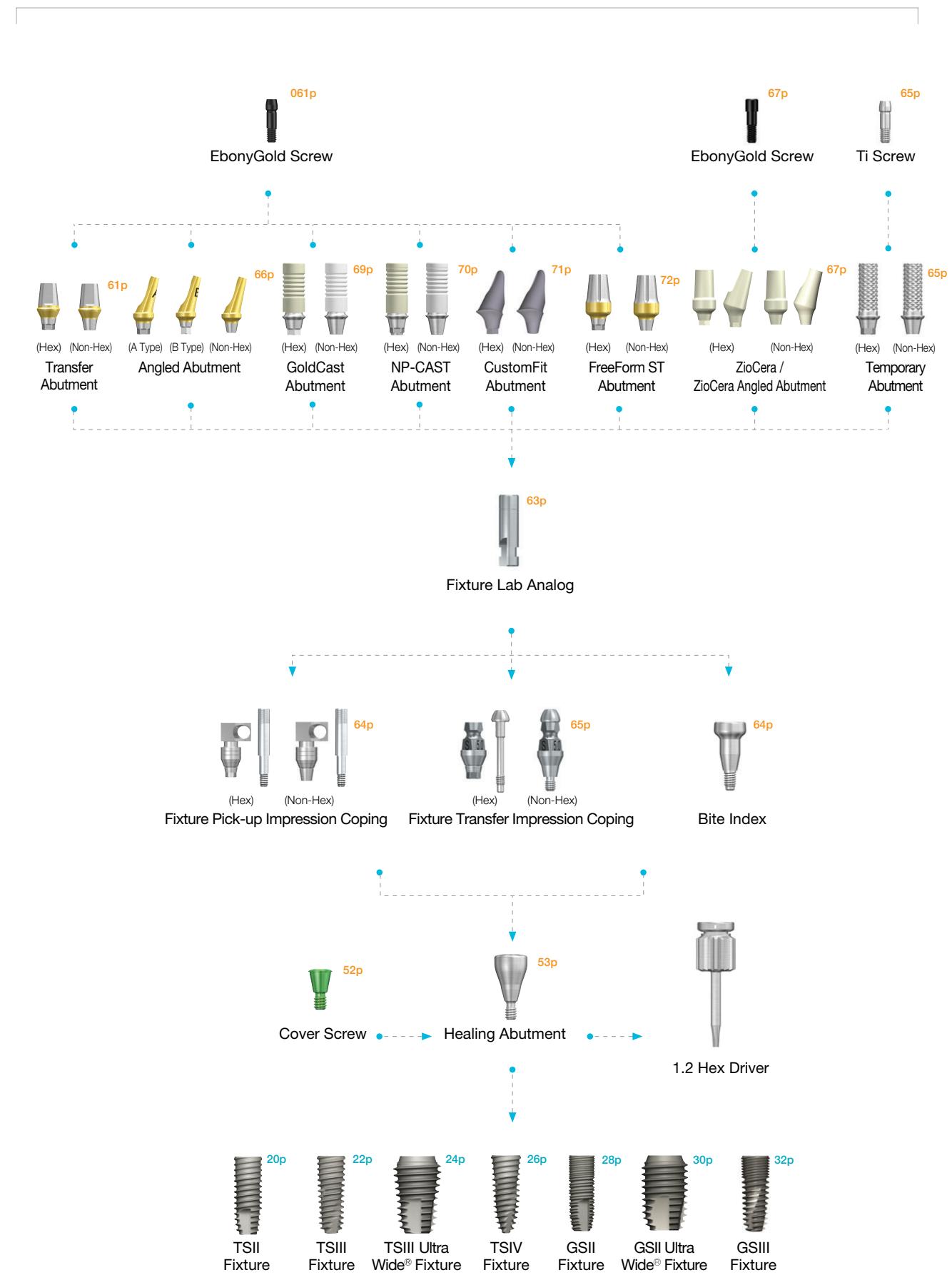
Prosthetic Flow Diagrams for TS & GS System

Cement Retained Restoration : Rigid & Transfer Abutment • Mini, Regular



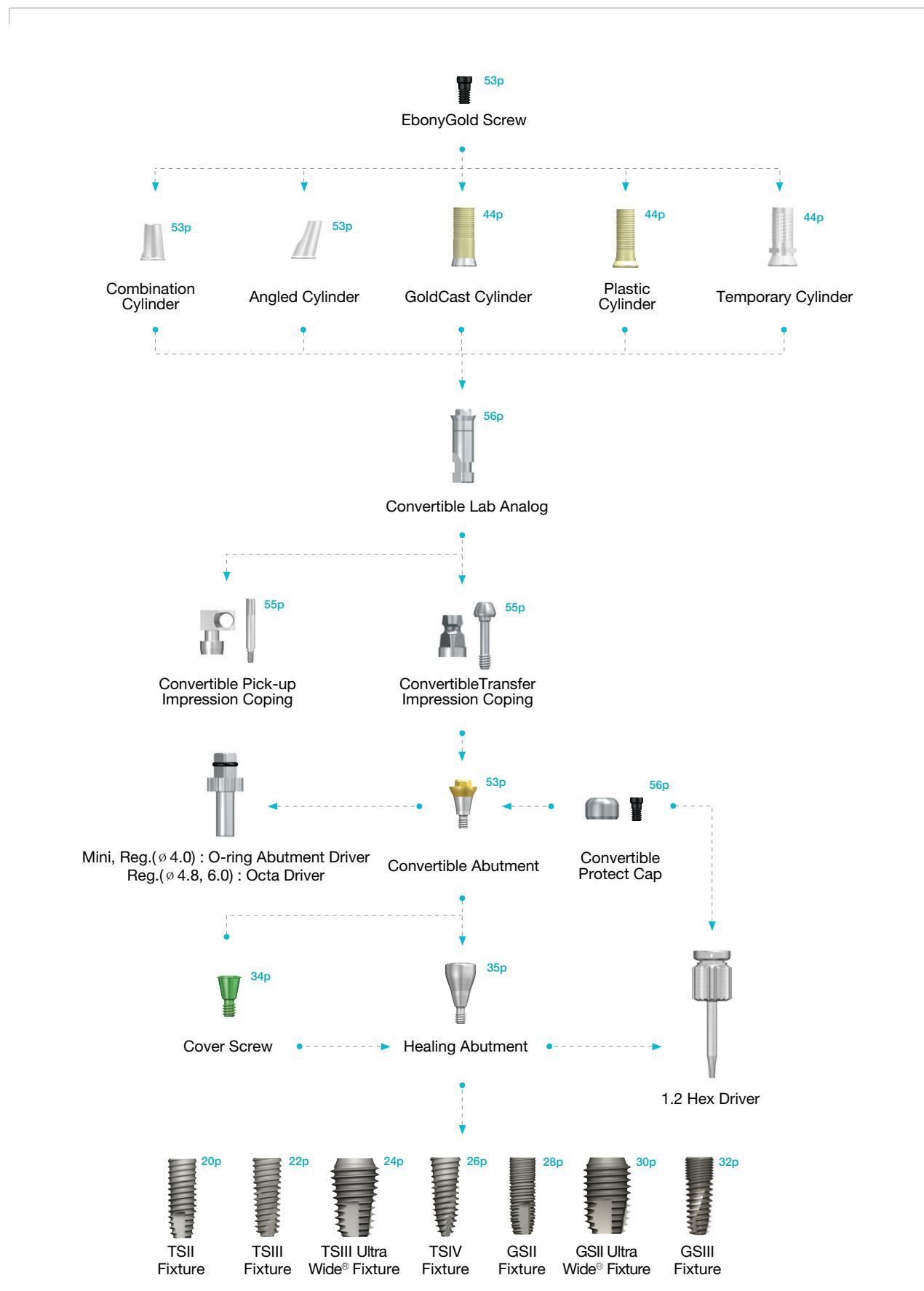
Prosthetic Flow Diagrams for TS & GS System

Cement Retained Restoration : Transfer, Angled, ZioCera, ZioCera Angled, GoldCast, CustomFit, NP-CAST, FreeForm ST
Screw Retained Restoration : ZioCera, ZioCera Angled, GoldCast, Temporary, NP-CAST Abutment • Mini, Regular



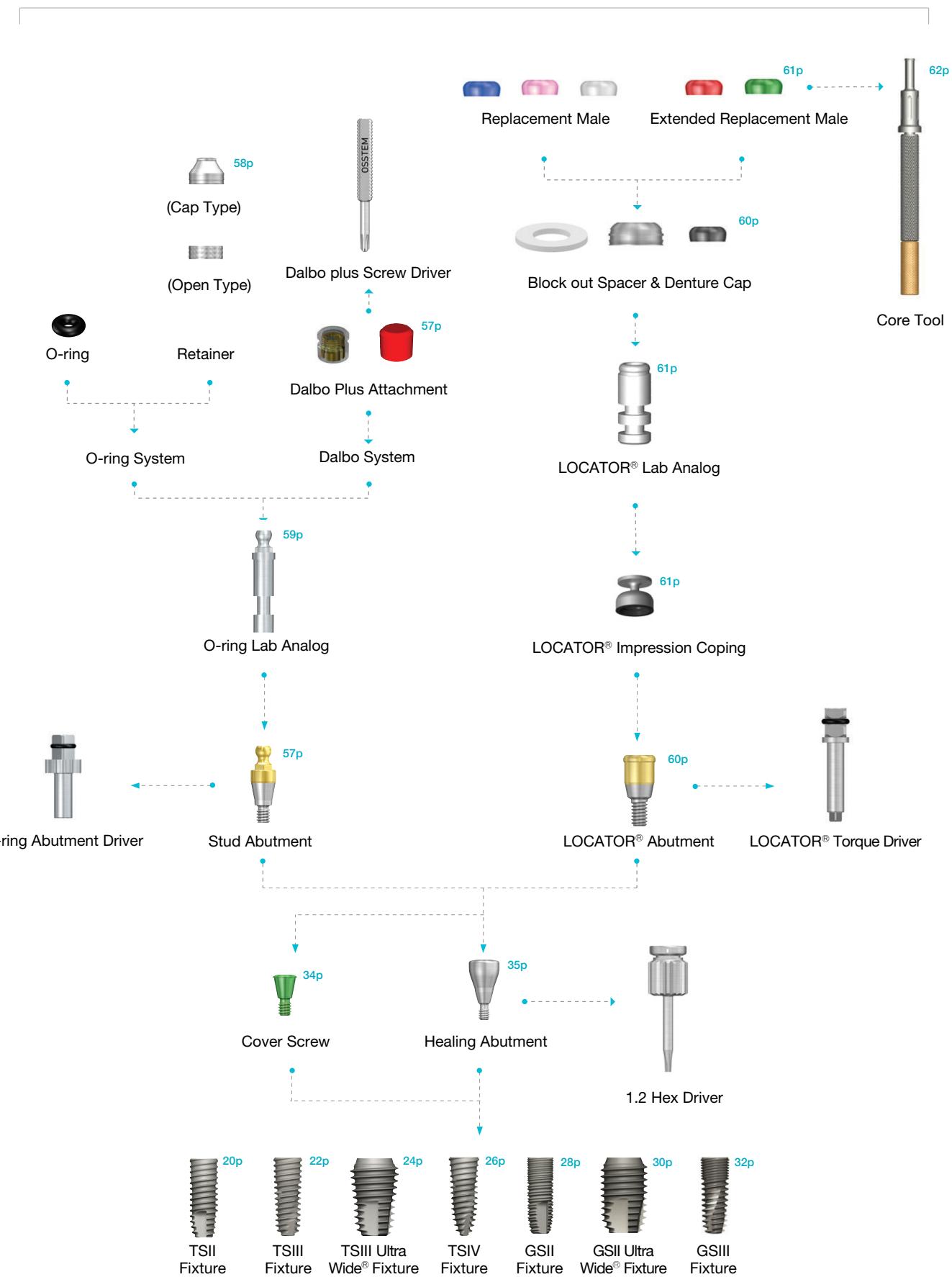
Prosthetic Flow Diagrams for TS & GS System

Screw & Cement Retained Restoration : Convertible Abutment • Mini, Regular



Prosthetic Flow Diagrams for TS & GS System

Overdenture Restoration : Stud / LOCATOR® Abutment • Mini, Regular

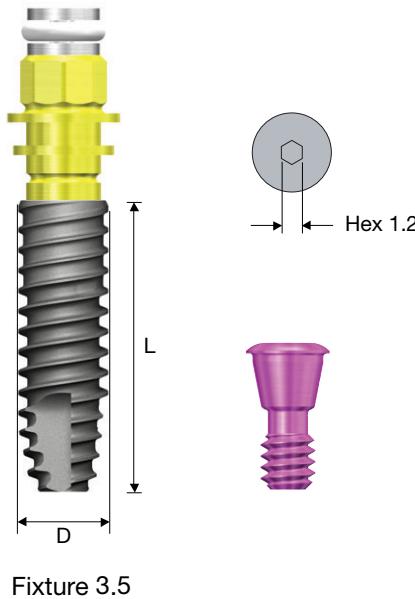


TSII Fixture

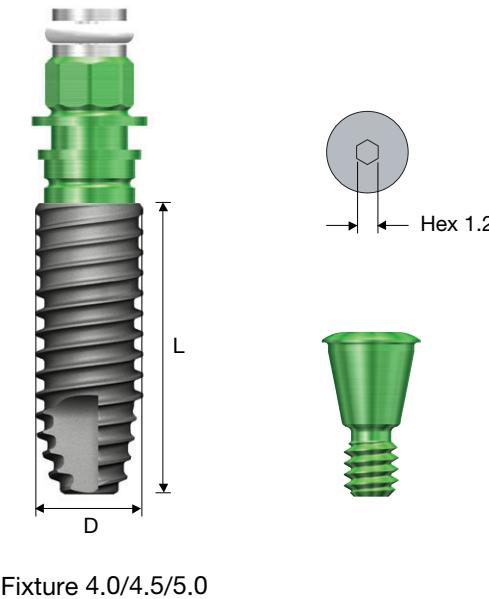
M R Connection

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* The following labeled dimension may differ from the actual dimension.



Fixture 3.5

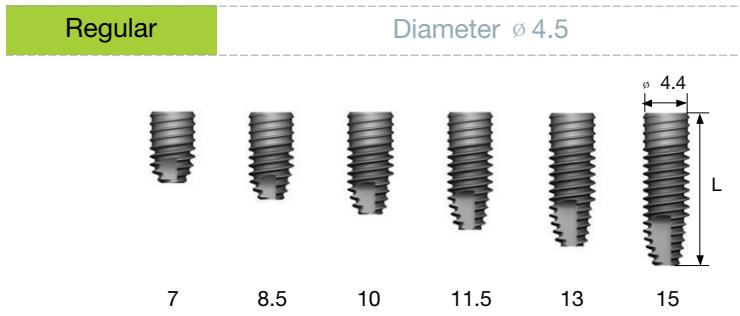


Fixture 4.0/4.5/5.0



Connection	Mini ø 3.5
L \ D	
7	-
8.5	TS2M3508S
10	TS2M3510S
11.5	TS2M3511S
13	TS2M3513S
15	TS2M3515S

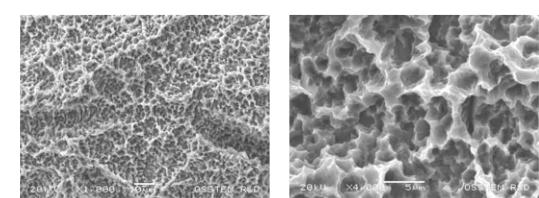
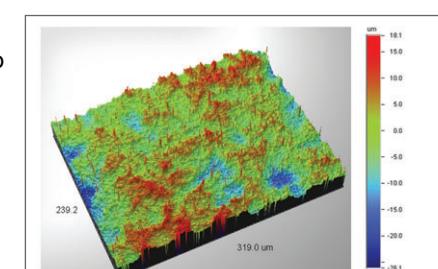
Connection	Regular ø 4.0
L \ D	
7	-
8.5	TS2S4008S
10	TS2S4010S
11.5	TS2S4011S
13	TS2S4013S
15	TS2S4015S



Connection	Regular ø 4.5
L \ D	
7	-
8.5	TS2S4508S
10	TS2S4510S
11.5	TS2S4511S
13	TS2S4513S
15	TS2S4515S



Connection	Regular ø 5.0
L \ D	
6	-
7	TS2S5007S
8.5	TS2S5008S
10	TS2S5010S
11.5	TS2S5011S
13	TS2S5013S
15	TS2S5015S



Feature of TSII Fixture

- Internal Hex & 11° morse taper connected, submerged fixture
- SA surface morphology and roughness increased by 45% compared to RBM treatment.
- SA : Sand blasted with alumina and Acid etched surface
 - Optimal morphology : Combination of crater and micro-pit
 - Optimal surface roughness : Ra 2.5~3.0 μm
 - Early cell response : 20% faster than RBM
 - Early bone healing : 20% faster than RBM
 - Early loading possible after 6 weeks of placement.
 - Optimized design for SA surface
- Straight body offers good implantation performance
- Small Thread : Increase initial stability in soft bone
- Corkscrew thread : Powerful Self threading
- Limited insertion torque : 40Ncm

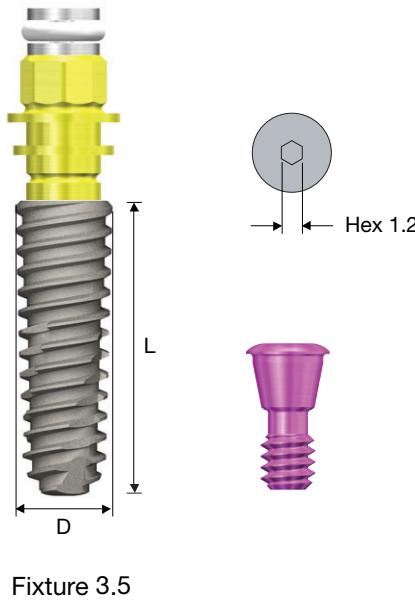
* We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.

TSIII Fixture

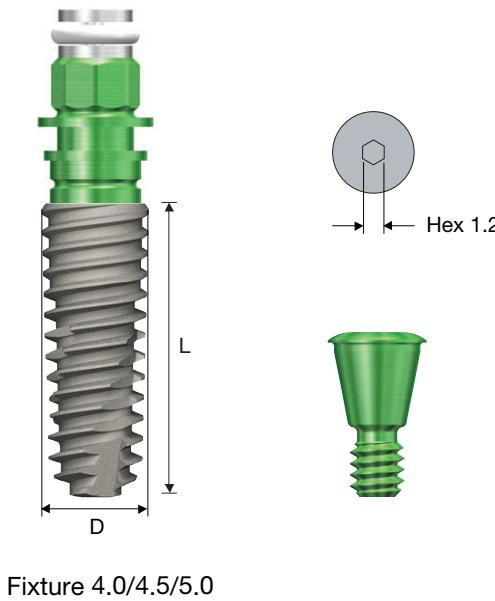
M R Connection

GLOBAL STANDARD OSSTEM IMPLANT

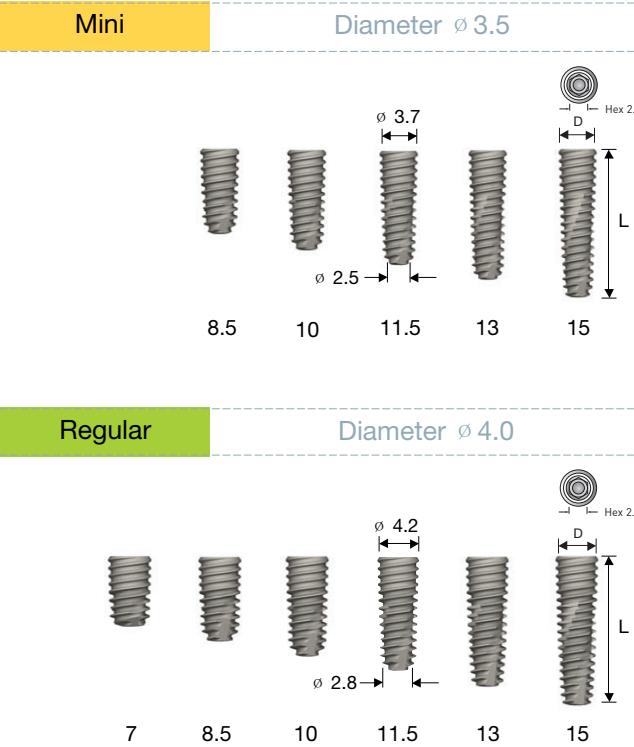
* The following labeled dimension may differ from the actual dimension.



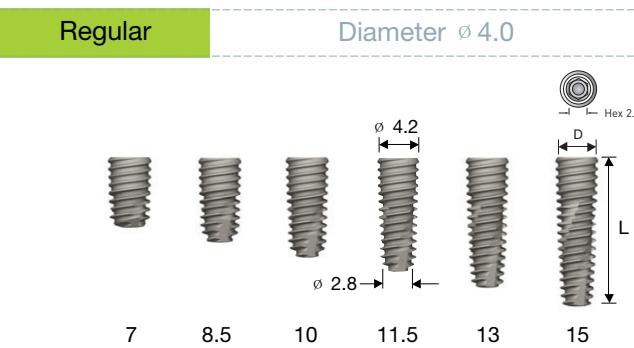
Fixture 3.5



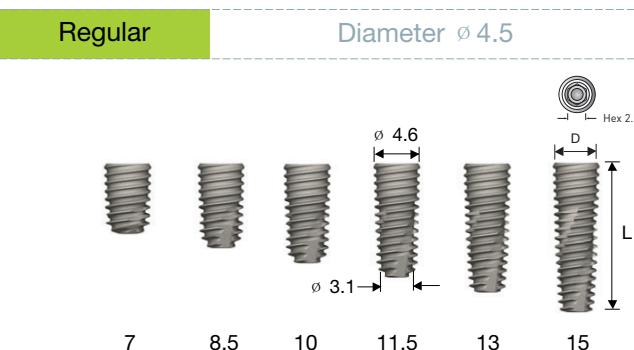
Fixture 4.0/4.5/5.0



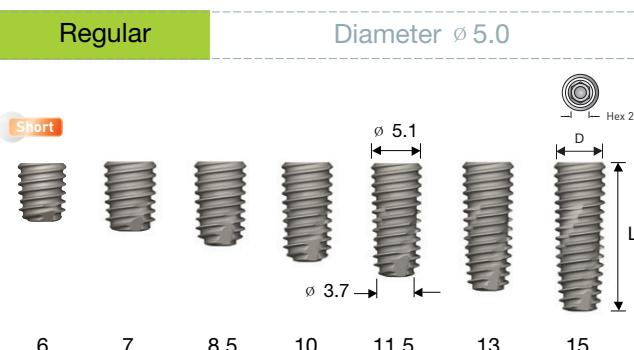
Mini Diameter Ø 3.5



Regular Diameter Ø 4.0



Regular Diameter Ø 4.5



Regular Diameter Ø 5.0

Connection	Mini
L \ D	Ø 3.5
7	-
8.5	TS3M3508S
10	TS3M3510S
11.5	TS3M3511S
13	TS3M3513S
15	TS3M3515S

Connection	Regular
L \ D	Ø 4.0
7	TS3S4007S
8.5	TS3S4008S
10	TS3S4010S
11.5	TS3S4011S
13	TS3S4013S
15	TS3S4015S

Connection	Regular
L \ D	Ø 4.5
7	TS3S4507S
8.5	TS3S4508S
10	TS3S4510S
11.5	TS3S4511S
13	TS3S4513S
15	TS3S4515S

TSIII Fixture Order Code

Fixture Only

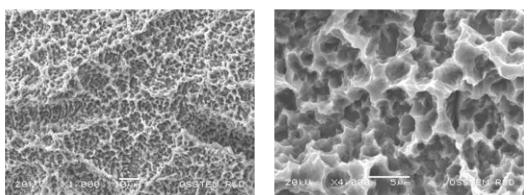
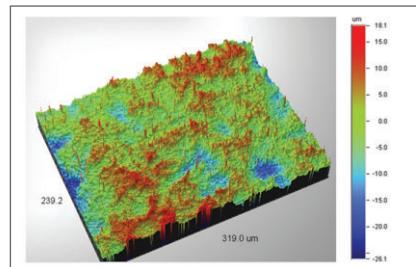
- Fixture : Product Code [ex : TS3S4010S]

Pre-Mounted Fixture [Simple Mount]

- Fixture + Mount + Cover Screw : B + Product Code [ex : BTS3S4010S]

Feature of TSIII Fixture

- Internal Hex & 11° morse taper connected, submerged fixture
- SA surface morphology and roughness increased by 45% compared to RBM treatment.
- SA : Sand blasted with alumina and Acid etched surface
 - Optimal morphology : Combination of crater and micro-pit
 - Optimal surface roughness : Ra 2.5~3.0 μ m
 - Early cell response : 20% faster than RBM
 - Early bone healing : 20% faster than RBM
 - Early loading possible after 6 weeks of placement.
 - Optimized design for SA surface
- Taper body offers High initial stability
- Small Thread : Increase initial stability in soft bone
- Corkscrew thread : Powerful Self threading
- Limited insertion torque : 40Ncm



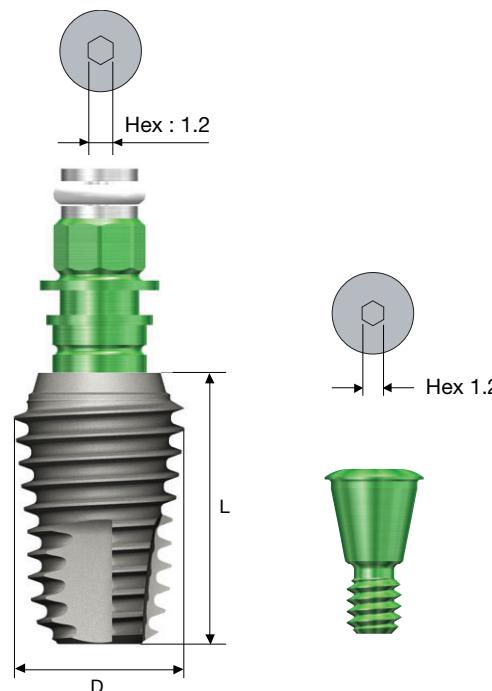
* We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.

TSIII Ultra - Wide® Fixture

R Connection

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* The following labeled dimension may differ from the actual dimension.



(*Mount와 Cover Screw 는 GS Regular와 동일한 제품 사용)

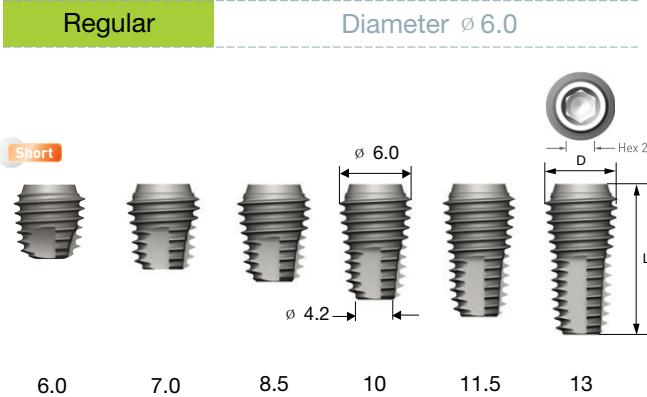
TSIII Ultra - Wide® Fixture Order Code

Fixture Only

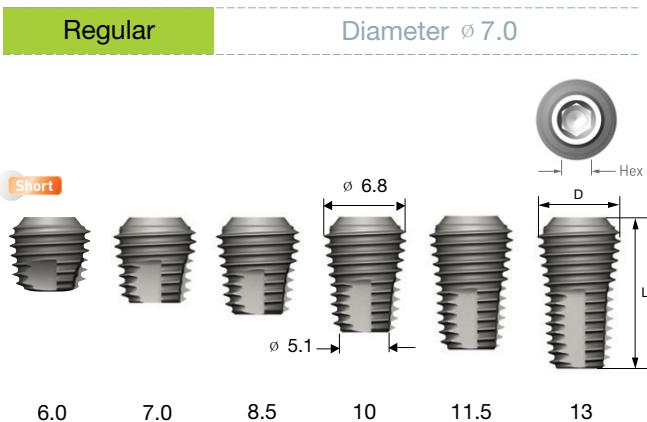
- Fixture : Product Code (예 : TS3S6010S)

Pre-Mounted Fixture (Simple Mount)

- Fixture + Simple Mount + Cover Screw : B + Fixture Product Code (예 : BTS3S6010S)



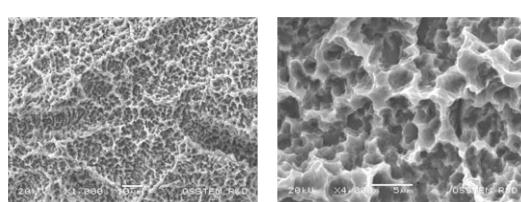
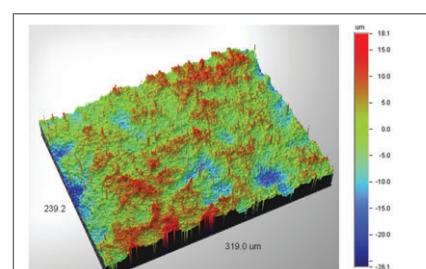
Connection	Regular	Ø 6.0
L	D	
6		TS3S6006S
7		TS3S6007S
8.5		TS3S6008S
10		TS3S6010S
11.5		TS3S6011S
13		TS3S6013S



Connection	Regular	Ø 7.0
L	D	
6		TS3S7006S
7		TS3S7007S
8.5		TS3S7008S
10		TS3S7010S
11.5		TS3S7011S
13		TS3S7013S

Feature of TSIII Ultra-Wide® Fixture

- Internal Hex & 11° morse taper connected, submerged fixture
- SA surface morphology and roughness increased by 45% compared to RBM treatment.
- SA : Sand blasted with alumina and Acid etched surface
 - Optimal morphology : Combination of crater and micro-pit
 - Optimal surface roughness : Ra 2.5~3.0 μm
 - Early cell response : 20% faster than RBM
 - Early bone healing : 20% faster than RBM
 - Early loading possible after 6 weeks of placement.
- Compatible with GS Regular abutment components
- A fixture that is convenient to use in case of immediate installation following posterior tooth extract socket and replacement of failed implant
- Optimized apex design that enables gaining stable initial fixture even at 3 mm below the extract socket
- 4-bladed cutting edge with excellent self-tapping force
- Limited insertion torque : 40Ncm



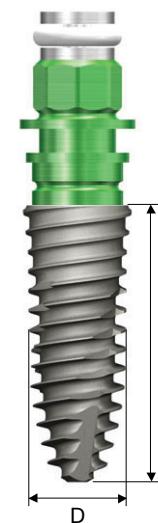
* We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.

TSIV Fixture

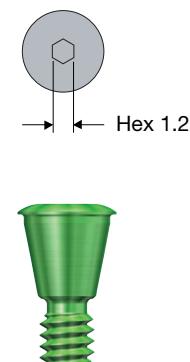
R Connection

GLOBAL STANDARD OSSTEM IMPLANT

* The following labeled dimension may differ from the actual dimension.



Fixture 4.0/4.5/5.0



TSIV Fixture Order Code

Fixture Only

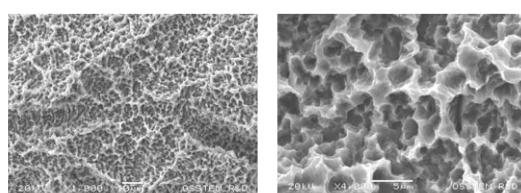
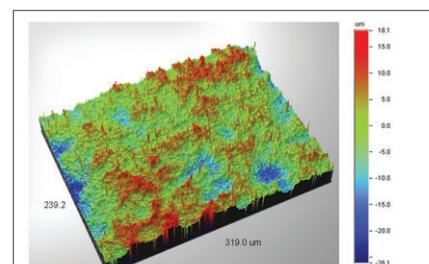
- Fixture : Product Code [ex : TS4S4010S]

Pre-Mounted Fixture [Simple Mount]

- Fixture + Mount + Cover Screw : B + Product Code [ex : BTS4S4010S]

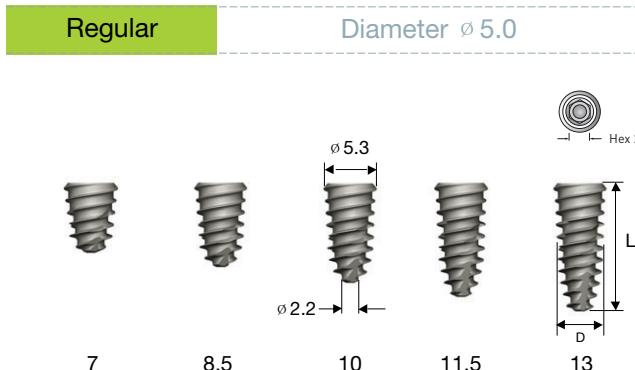
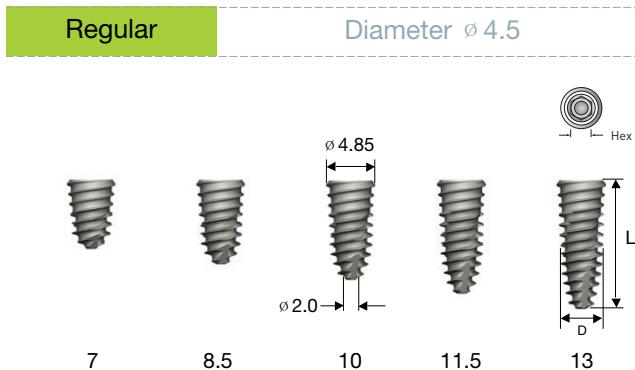
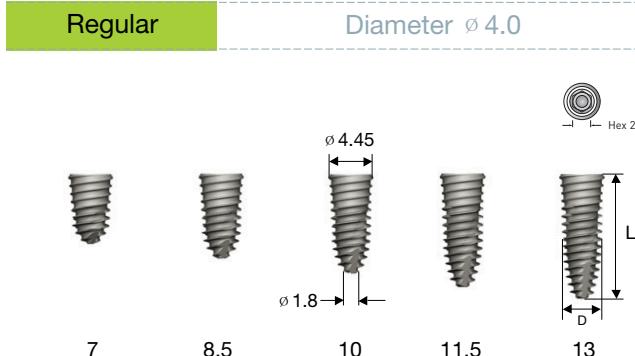
Feature of TSIV Fixture

- Internal Hex & 11° morse taper connected, submerged fixture
- SA surface morphology and roughness increased by 45% compared to RBM treatment.
- SA : Sand blasted with alumina and Acid etched surface
 - Optimal morphology : Combination of crater and micro-pit
 - Optimal surface roughness : Ra 2.5~3.0 μm
 - Early cell response : 20% faster than RBM
 - Early bone healing : 20% faster than RBM
 - Early loading possible after 6 weeks of placement.
- Compatible with GS Regular abutment components
- Optimized design for SA surface
- Sinus and soft bone only used fixture
- Small Thread : Increase initial stability in soft bone
- Sharp Apex design : D4 bone case is possible to insert after $\varnothing 2$, $\varnothing 3\text{mm}$ drilling depth
- Limited insertion torque : 40Ncm



* We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.

* Recommended insertion speed : below 15rpm
- TSIV Fixture Insert speed is fast because of thread pitch is big



Connection	Regular
L \ D	$\varnothing 4.0(\text{Pitch } 0.8)$
7	TS4S4007S
8.5	TS4S4008S
10	TS4S4010S
11.5	TS4S4011S
13	TS4S4013S

Connection	Regular
L \ D	$\varnothing 4.5(\text{Pitch } 1.0)$
7	TS4S4507S
8.5	TS4S4508S
10	TS4S4510S
11.5	TS4S4511S
13	TS4S4513S

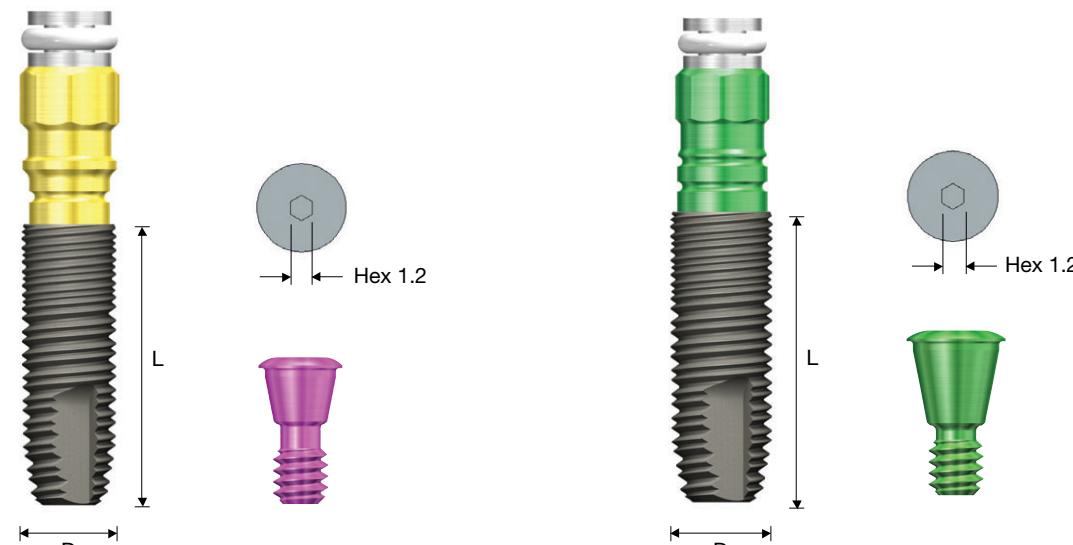
Connection	Regular
L \ D	$\varnothing 5.0(\text{Pitch } 1.2)$
7	TS4S5007S
8.5	TS4S5008S
10	TS4S5010S
11.5	TS4S5011S
13	TS4S5013S

GSII Fixture

M R Connection

GLOBAL STANDARD OSSTEM IMPLANT

* The following labeled dimension may differ from the actual dimension.



Connection	Mini
Diameter	$\varnothing 3.5$
Length	RBM
7	-
8.5	GS2M3508R01
10	GS2M3510R01
11.5	GS2M3511R01
13	GS2M3513R01
15	GS2M3515R01



Connection	Regular
Diameter	$\varnothing 4.0$
Length	RBM
7	GS2R4007R01
8.5	GS2R4008R01
10	GS2R4010R01
11.5	GS2R4011R01
13	GS2R4013R01
15	GS2R4015R01



Connection	Regular
Diameter	$\varnothing 4.5$
Length	RBM
7	GS2W4507R01
8.5	GS2W4508R01
10	GS2W4510R01
11.5	GS2W4511R01
13	GS2W4513R01
15	GS2W4515R01



Connection	Regular
Diameter	$\varnothing 5.0$
Length	RBM
7	GS2W5007R01
8.5	GS2W5008R01
10	GS2W5010R01
11.5	GS2W5011R01
13	GS2W5013R01
15	GS2W5015R01

GSII Fixture Order Code

Fixture Only
- Fixture : Product Code (Ex : GS2R4011R01)

Pre-Mounted Fixture (Simple Mount)
- Fixture + Simple Mount + Cover Screw : B + Fixture Product Code (Ex : BGS2R4011R01)

Features of GSII Fixture

- Internal hex & 11° mors taper connected, submerged fixture
- Harmony of macro thread and micro thread considering the cortical and cancellous bone
- Dual thread design offers excellent initial bonding and long-term stability
- RBM : Excellent bio-affinity of surface
- Rigid motion with superstructure helps maintain stable connection
- Straight body facilitates the adjustment of implantation depth
- 3-bladed cutting edge with excellent self-tapping force
- A variety of diameters and lengths are available for various oral environments
- Limited insertion torque : 40Ncm

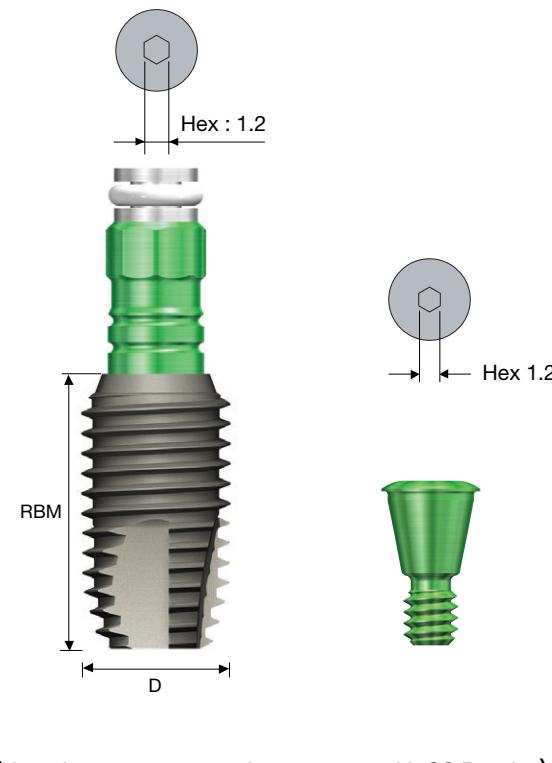
* We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.

GSII Ultra - Wide® Fixture

R Connection

GLOBAL STANDARD OSSTEM IMPLANT

* The following labeled dimension may differ from the actual dimension.



(*Uses the same mount and cover screw with GS Regular)

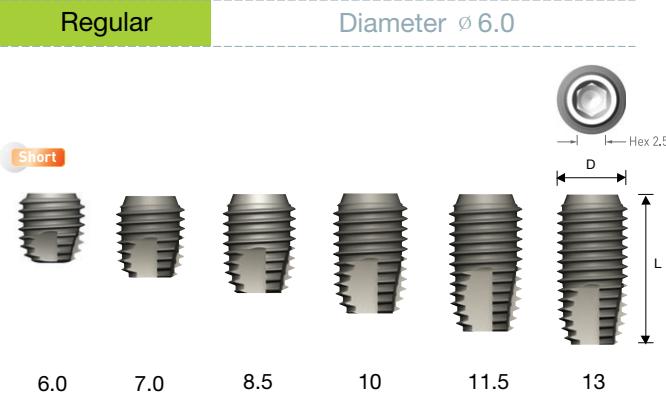
GSII Ultra - Wide® Fixture Order

Fixture Only

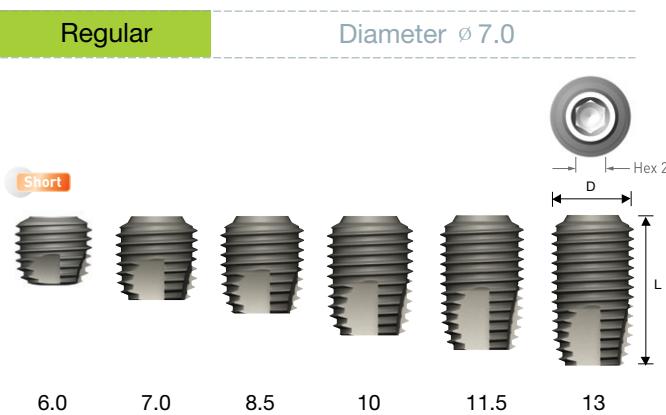
- Fixture : Product Code (ex : GS2W6010R02)

Pre-Mounted Fixture (Simple Mount)

- Fixture + Simple Mount + Cover Screw : B + Fixture Product Code (ex : BGS2W6010R02)



Connection	Regular	Ø 6.0
L	D	
6.0 (Short)		GS2W6006R02
7.0		GS2W6007R02
8.5		GS2W6008R02
10		GS2W6010R02
11.5		GS2W6011R02
13		GS2W6013R02



Connection	Regular	Ø 7.0
L	D	
6.0 (Short)		GS2W7006R02
7.0		GS2W7007R02
8.5		GS2W7008R02
10		GS2W7010R02
11.5		GS2W7011R02
13		GS2W7013R02

* The actual length of GSII Ultra-Wide® Fixture is L-0.5mm.
(Except for length 7mm)

Features of GSII Ultra-Wide® fixture

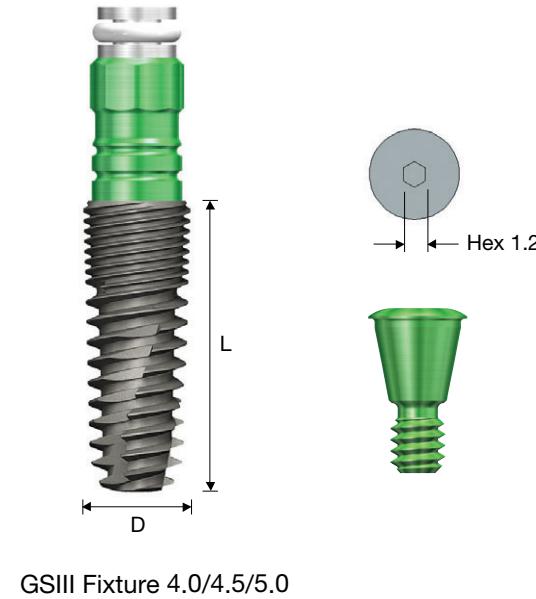
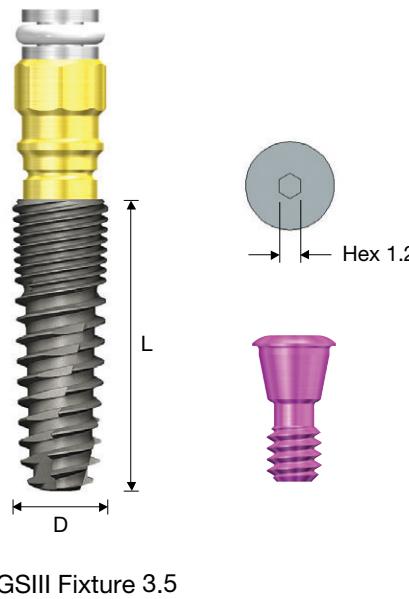
- Internal hex & 11° morse taper connected, submerged wide diameter fixture
- Compatible with GS Regular abutment components
- A fixture that is convenient to use in case of immediate installation following posterior tooth extract socket and replacement of failed implants
- Optimized apex design that enables gaining stable initial fixation even at 3 mm below the extract socket
- All RBM surfaces with excellent bio-affinity
- Rigid motion with superstructure helps maintain stable connection
- 4-bladed cutting edge with excellent self-tapping force
- A variety of diameters and lengths are available for various oral environments
- Limited insertion torque : 40 Ncm

GSIII Fixture

M R Connection

GLOBAL STANDARD OSSTEM IMPLANT

* The following labeled dimension may differ from the actual dimension.



GSIII Fixture Order Code

Fixture Only

- Fixture : Product Code [ex : GS3S4011R]

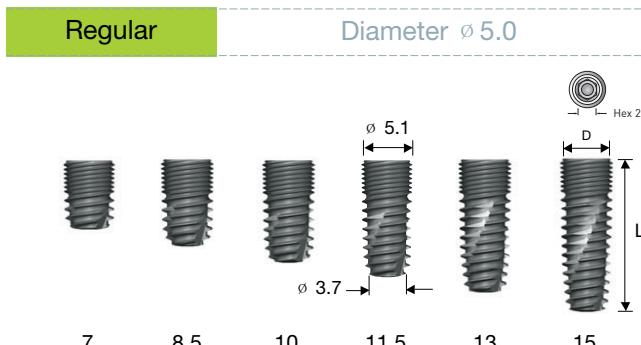
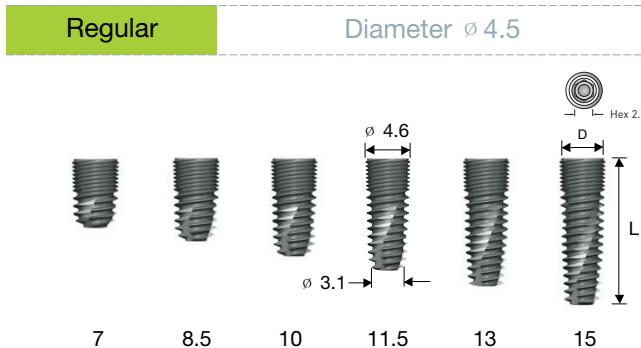
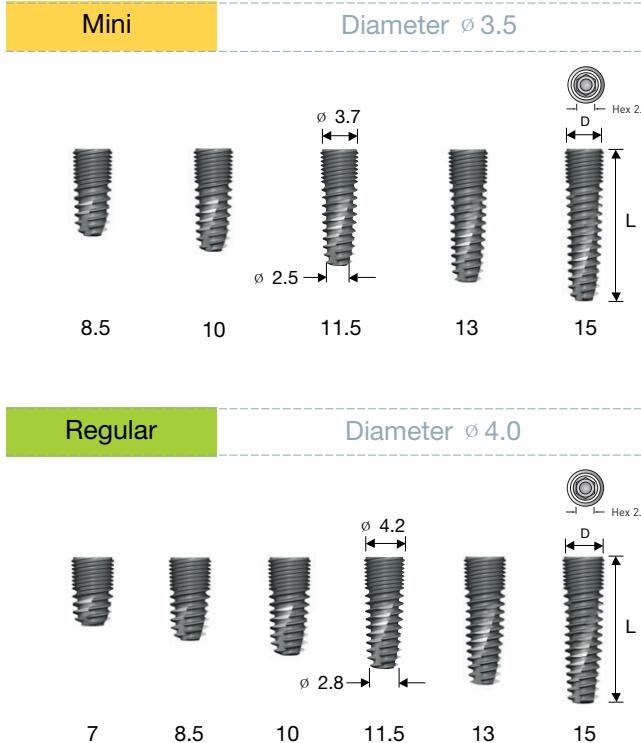
Pre-Mounted Fixture [Simple Mount]

- Fixture + Mount + Cover Screw : B + Product Code [ex : BGS3S4011R]

Feature of GSIII Fixture

- Internal hex & 11 morse taper connected, submerged fixture
- Taper body offers excellent primary bonding
- Micro Thread
 - Distribute stress on bone
 - Stimulate bone evenly
 - Increase cell response
 - Reinforce fixture strength
- Corkscrew Thread & Cutting Edge
 - Powerful self threading
 - Change path easily
 - Increase insertion torque in soft bone
 - Increase initial stability in soft bone
- Rigid motion with superstructure helps maintain stable connection
- A variety of diameters and lengths are available for various oral environments
- Limited insertion torque : 40Ncm

* We recommend that the fixture with over 4.5mm diameter is used for single case in Molar



7 8.5 10 11.5 13 15

Connection	Mini
D	Ø 3.5
L	-
7	GS3M3508R
8.5	GS3M3510R
10	GS3M3511R
11.5	GS3M3513R
13	GS3M3515R
15	GS3M3515R

Connection	Regular
D	Ø 4.0
L	-
7	GS3S4007R
8.5	GS3S4008R
10	GS3S4010R
11.5	GS3S4011R
13	GS3S4013R
15	GS3S4015R

Connection	Regular
D	Ø 4.5
L	-
7	GS3S4507R
8.5	GS3S4508R
10	GS3S4510R
11.5	GS3S4511R
13	GS3S4513R
15	GS3S4515R

Connection	Regular
D	Ø 5.0
L	-
7	GS3S5007R
8.5	GS3S5008R
10	GS3S5010R
11.5	GS3S5011R
13	GS3S5013R
15	GS3S5015R

OSSTEM Implant System

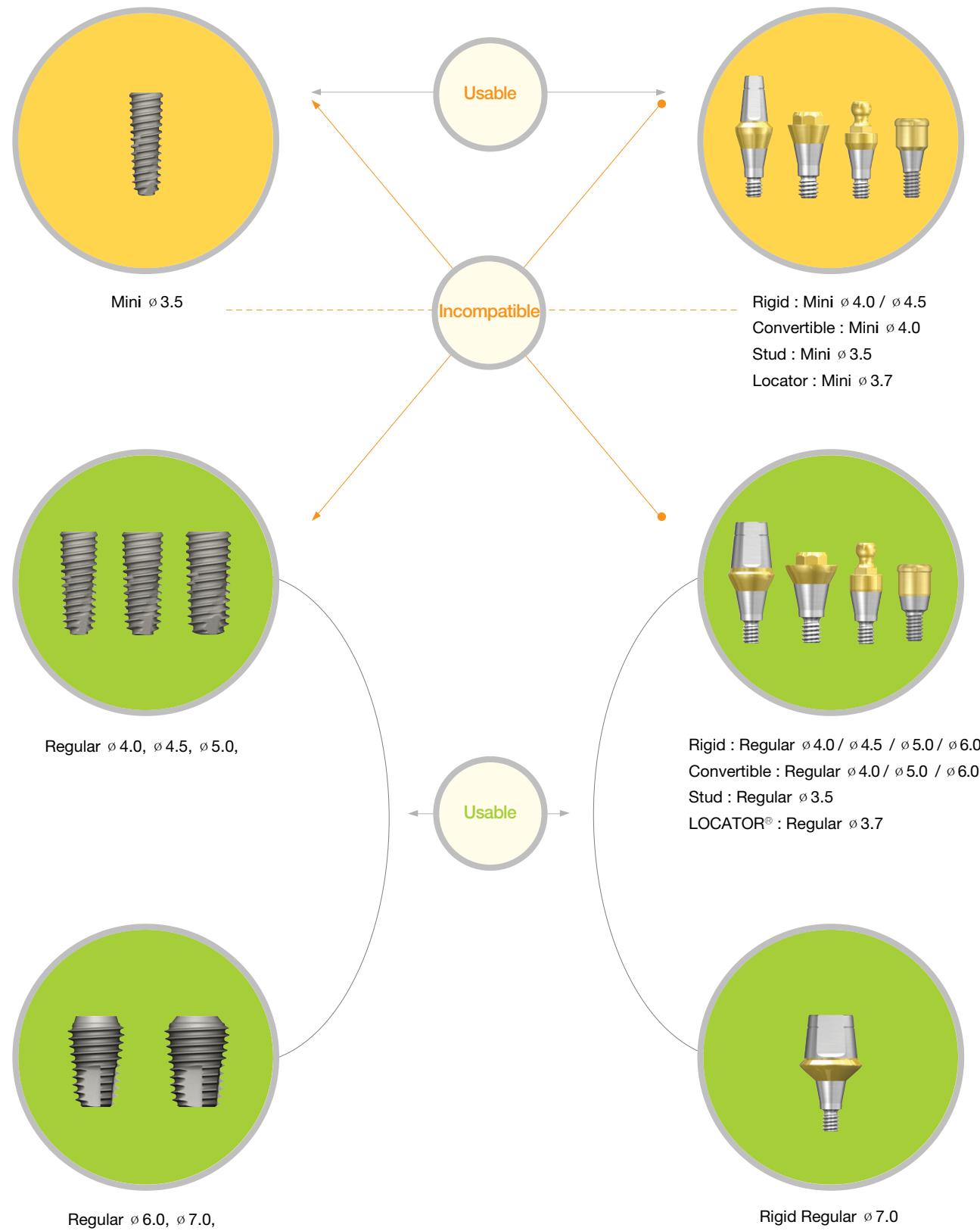
Early & Esthetic OSSTEM IMPLANT



TS System
Components Guide

Smile Designer

Compatibility Guide for TS & GS System (Fixture-Abutment)

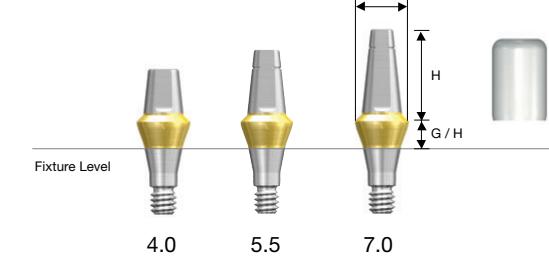


Rigid Abutment Components

Rigid Abutment Cement Retained Restoration

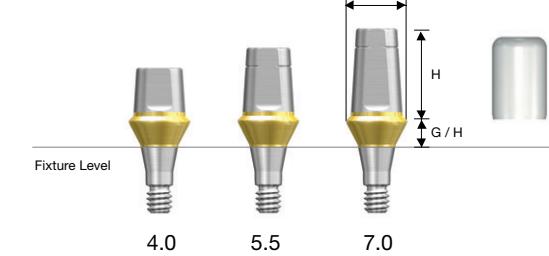
Mini

Ø 4.0



Ø 4.5

Fixture Level

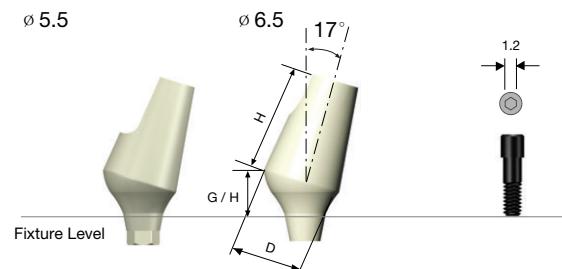


H	G/H	D	Ø 4.0	Ø 4.5
4.0	1.0		GSRA4410	GSRA4411
	2.0		GSRA4420	GSRA4421
	3.0		GSRA4430	GSRA4431
	4.0		GSRA4440	GSRA4441
	5.0		GSRA4450	GSRA4451
5.5	1.0		GSRA4610	GSRA4611
	2.0		GSRA4620	GSRA4621
	3.0		GSRA4630	GSRA4631
	4.0		GSRA4640	GSRA4641
	5.0		GSRA4650	GSRA4651
7.0	1.0		GSRA4710	GSRA4711
	2.0		GSRA4720	GSRA4721
	3.0		GSRA4730	GSRA4731
	4.0		GSRA4740	GSRA4741
	5.0		GSRA4750	GSRA4751

ZioCera Angled abutment

Cement or Screw Retained Restoration

Regular



Hex Non-Hex

D		$\varnothing 5.5$	
H	G/H	Type	
9.0	3.0	Hex	Non-Hex
	4.0	-	-
EbonyGold Screw			GSASR

D		$\varnothing 6.5$	
H	G/H	Type	
9.0	3.0	Hex	Non-Hex
	4.0	GS17ZAS6540	GS17ZAS6540N
EbonyGold Screw			GSASR

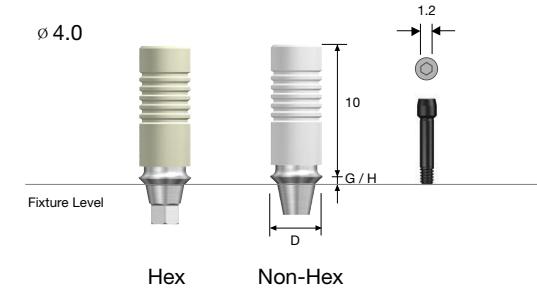
- Use for esthetic implant restorations which needed path modification
- Ivory Color for esthetic shade
- Applicable as a screw retained by direct build up
- Use a 1.2 Hex driver
- Packing Unit: Abutment + EbonyGold Screw
- Tightening torque: 20 Ncm(mini), 30 Ncm(regular)

Order code - Abutment + EbonyGold screw : Product Code + **WH** (ex : GS17ZAS5530N**WH**)

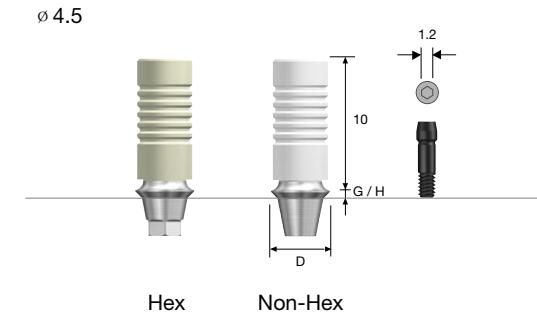
GoldCast Abutment

Screw or Cement Retained Restoration

Mini



Regular



G/H	Type	D	$\varnothing 4.0$
1.0	Hex		GSGA4010S
	Non-Hex		GSGA4010B
3.0	Hex		GSGA4030S
	Non-Hex		GSGA4030B
EbonyGold Screw			GSABSM

G/H	Type	D	$\varnothing 4.5$
1.0	Hex		GSGA4510S
	Non-Hex		GSGA4510B
3.0	Hex		GSGA4530S
	Non-Hex		GSGA4530B
EbonyGold Screw			GSABSS

- Use for cases with path and aesthetic and spatial constraints
- 11° taper connection for excellent safety
- After customization, be sure to use only dental gold alloy for casting to make the prosthesis
- Melting point range of abutments (Au, Pt, Pd Alloy) : 1400 - 1450 °C (use of non-precious metal alloy for casting prohibited)
- Use a 1.2 hex driver
- Packing unit : Abutment + EbonyGold screw
- Tightening torque : 20 Ncm (mini), 30 Ncm (regular)

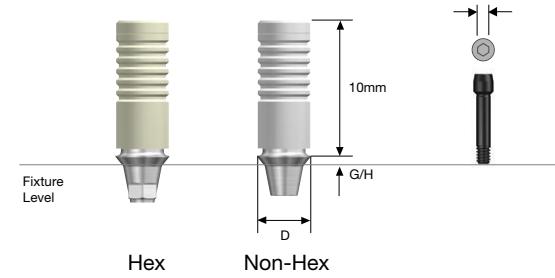
Order code

- Abutment + EbonyGold screw : Product code + **WH** (ex : GSGA4510S**WH**)

NP-CAST Abutment

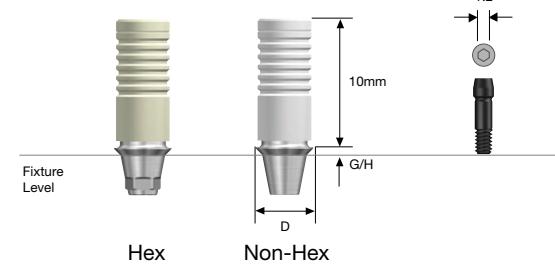
Screw or Cement Retained Restoration

Mini



G/H	Type	D	ø 4.0
1.0	Hex	GSNA4010S	
	Non-Hex	GSNA4010B	
3.0	Hex	GSNA4030S	
	Non-Hex	GSNA4030B	
	EbonyGold Screw		GSABSM

Regular



G/H	Type	D	ø 4.5
1.0	Hex	GSNA4510S	
	Non-Hex	GSNA4510B	
3.0	Hex	GSNA4530S	
	Non-Hex	GSNA4530B	
	EbonyGold Screw		GSABSS

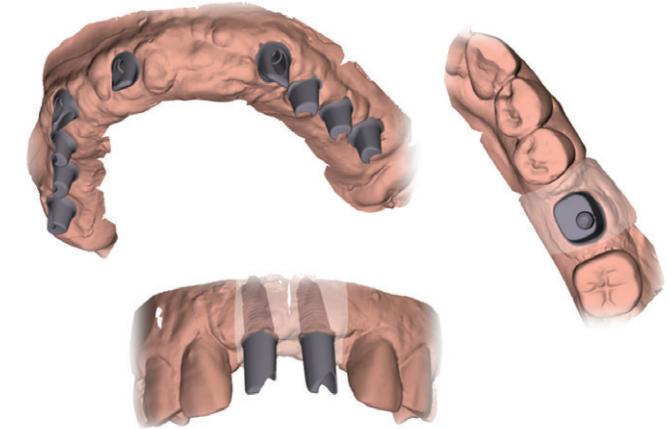
- Packing unit : Abutment + EbonyGold screw
- Use for cases with path and aesthetic and spatial constraints
- After customization, be sure to use only dental non-precious metal alloy for casting to make the prosthesis
- Use the 1.2 hex driver
- Tightening torque : 20Ncm(Mini), 30Ncm(Regular)

Order code

- Abutment + EbonyGold screw : Product Code + WH (ex: GSNA4510SWH)

CustomFit Abutment

Cement Retained Restoration



- Individualized CAD/CAM Abutment
- Use the 1.2 hex driver
- Tightening torque : 20Ncm(Mini), 30Ncm(Regular)
- Recommended clinical case
 1. Misaligned implant position and angle.(max. 30°)
 2. Multiple case to require consistent path and stable support
 3. Anterior case to require aesthetic design
 4. If irregular or excessively deep gingival
- How to Order
 1. Write order sheet
 2. Items required by case send to CAD/CAM Center
 3. Working time : 5~7days

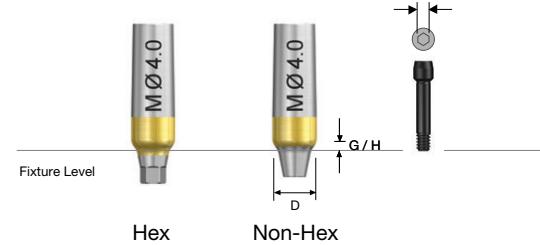
Convertible Abutment Components

FreeForm ST Abutment

Cement Retained Restoration

Mini

($\phi 4.0$)

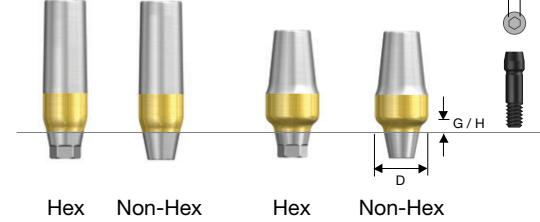


G/H	Type	D	$\phi 4.0$
1.5	Hex		GSFAM4015
	Non-Hex		GSFAM4015N
3.0	Hex		GSFAM4030
	Non-Hex		GSFAM4030N
EbonyGold Screw			GSABSM

Regular

($\phi 4.0$)

($\phi 5.0$)



G/H	Type	D	$\phi 4.0$	$\phi 5.0$	$\phi 6.0$	$\phi 7.0$
1.5	Hex		GSFA4015	GSFA5015	GSFA6015	GSFA7015
	Non-Hex		GSFA4015N	GSFA5015N	GSFA6015N	GSFA7015N
3.0	Hex		GSFA4030	GSFA5030	GSFA6030	GSFA7030
	Non-Hex		GSFA4030N	GSFA5030N	GSFA6030N	GSFA7030N
EbonyGold Screw			GSABSS			

- Use for the path adjustment of abutments or customization of prosthetic margin
- 11° taper connection for excellent safety
- Gingival gold color for aesthetic effect
- Use a 1.2 hex driver
- Packing unit : Abutment + EbonyGold screw
- Tightening torque : 20 Ncm (mini), 30 Ncm (regular)

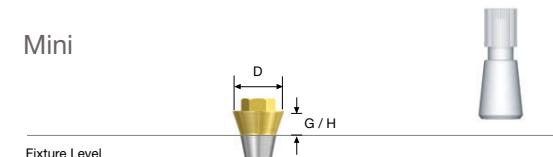
Order code

- Abutment + EbonyGold screw : Product code + WH (ex : GSFA5015WH)

Convertible Abutment

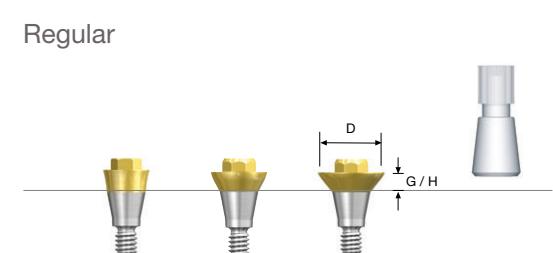
Screw & Cement Retained Restoration

Mini



G/H	D	$\phi 4.0$
1.0		GSCA4010
2.0		GSCA4020
3.0		GSCA4030
4.0		GSCA4040

Regular

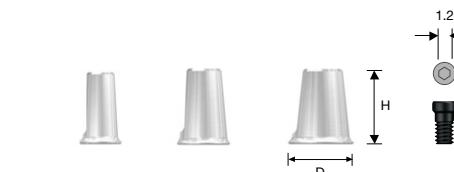


G/H	D	$\phi 4.0$	$\phi 5.0$	$\phi 6.0$
1.0		GSCAS4010	GSCA5010	GSCA6010
2.0		GSCAS4020	GSCA5020	GSCA6020
3.0		GSCAS4030	GSCA5030	GSCA6030
4.0		GSCAS4040	GSCA5040	GSCA6040
5.0		-	GSCA5050	GSCA6050

- Use for creating bridge case prosthesis with dislocated path
- Designed to make the prosthesis onto a cylinder following abutment connection in the oral cavity
- $\phi 4.0$: Use an O-ring abutment driver
 $\phi 4.8$, $\phi 6.0$: Use an Octa abutment driver
- Packing : Abutment + Carrier
- Tightening torque : 30 Ncm

Order code - Abutment + Carrier : Product Code + P (ex : GSCA5030P)

Convertible Combination Cylinder



H	D	Mini	Regular
7.0	$\phi 4.0$	GSCC4070T(Hex)	GSCC5070T
	$\phi 6.0$	GSCC4070TN(Non-Hex)	GSCC6070T (Octa)
EbonyGold Screw	GSFSM	GSFSR	

- Use for making combination-retained prosthesis using convertible abutments.
- Use a 1.2 hex driver
- Packing unit : Cylinder + EbonyGold screw
- Tightening torque : 20 Ncm

Order code

- Cylinder + EbonyGold screw : Product code + WH (ex : GSCC5070TWH)

Convertible Angled Cylinder



H	D	Mini	Regular
8.0	$\phi 4.0$	GSAC4080T(Hex)	GSAC5080T
	$\phi 6.0$	GSAC4080TN(Non-Hex)	(Octa)
EbonyGold Screw	GSFSM	GSFSR	

- Use for making combination-retained prosthesis using convertible abutments
- Used for the path adjustment of prosthesis given 17° axial angle
- Use a 1.2 hex driver
- Packing unit : Cylinder + EbonyGold screw
- Tightening torque : 20 Ncm

Order code

- Cylinder + EbonyGold screw : Product Code + WH (ex : GSAC5080TWH)

O-ring Retainer Cap Set

Code	RCS01
------	-------

- Packing unit : Retainer cap + O-ring

O-ring Lab Analog

Code	OAL
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- Make oral O-ring abutments on the working model
- Packing unit : Lab analog

O-ring Retainer Set

Code	RS01
------	------

- More advantageous for smaller occlusal gap compared to a retainer cap
- Packing unit : Retainer + O-ring

O-ring Set

Code	OAON01S
------	---------

- Packing unit : O-ring piece

LOCATOR® Core Tool

Code	LCCT
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- Packing Unit : Locator Core Tool
- for handling of locator system

**LOCATOR® Torque Driver**

Type	Short	Long
Code	TWLDS	TWLTL

- Packing Unit : Locator Torque Driver
- For tightening of Locator Abutment
- Select the Short/Long length



OSSTEM®
IMPLANT