TS Implant System

2013 PRODUCT CATALOG

OSSTEM IMPLANT

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OSSTEM HISTORY

2012
- Nov Hosts 'OSSTEM ATC Forum 2012 Seoul'
- Jul Registers and obtains approval from FDA in Mexico
  Established OSSTEM Dental Equipment Research Institute
- Jun Develops and begins commercial production of TSIII CA
  Develops and begins commercial production of ESSET Kit for Ridge Split
- May Develops and begins commercial production of MS SA
- Apr Hosts 'OSSTEM World Meeting 2012 Taipei'
  Develops and begins commercial production of TSIII BA
  Registers and obtains approval from Ministry of Health in Indonesia
  Develops and begins commercial production of USIII SA
- Mar Develops and begins commercial production of USIII SA
  Develops and begins commercial production of SSIII HA
  Registers and obtains approval from Ministry of Health and Welfare in Kazakhstan

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

2010
- Nov Develops and begins commercial productions of SSII SA
- Aug Develops and begins commercial productions of TSIII Ultra-wide
- Jun Develops and begins commercial productions of TSIII HA and CAS Kit
  Opens 'OSSTEM World Meeting 2010 in Beijing'
- Apr Develops and begins commercial productions of Osstem Guide
- Mar Develops and begins commercial productions of TSIII SA

2009
- Oct Registers and obtains approval from Health, Labor and Welfare in Japan
- May Hosts 'OSSTEM World Meeting 2009 in Bangkok'
- Jan Certifies PEP7 (the world's first new Osseo-inductive compound)

2008
- Nov Develops and begins commercial productions of SS Ultra-wide
- Jun Develops and begins commercial productions of GSIII
- Apr Holds 'OSSTEM World Meeting 2008 in Seou'
- Mar Opens ATC Training Center
- Jan Establishes OSSTEM Bone Science Institute

2007
- Oct Establishes subsidiary offices in Sydney, Australia [Osstem Australia PTY Ltd.]
- Jun Registers and obtains approval from the TGA in Australia
- May Develops and begins commercial production of US Ultra-wide
- Apr Hosts 'OSSTEM World Meeting 2007 in Seoul'
  Begins commercial production of V-ceph
- 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.]

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 SSIII
- 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

2001
- Mar Establishes AIC(Apsun Dental Implant Research & Education Center)
- Jan Obtains CE-0434 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

1995
- Develops dental implants and acquires industrial license

1992
- Initiates the development of dental implant system

CHARACTERISTIC of OSSTEM IMPLANT SYSTEM

OSSTEM Implant key reference (as of Mar.2012)

■TS System - Clinic

No.	Title	Reference	Author
1	Comparison of Clinical Outcomes of Sinus Bone Graft with Simultaneous Implant Placement: 4-month and 6-month FinalProsthetic Loading	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011 Feb;111(2):164-9	Young-Kyun Kim et al.
2	Prospective study of tapered RBM surface implant stability in themaxillary posterior area	Accepted in 2011 Oral Surg Oral Med Oral Pathol Oral Radiol Endod.	Young-Kyun Kim et al.
3	A 1-year Prospective Clinical Study of Soft Tissue Conditions and Marginal Bone Changes around Dental Implants after Flapless Implant Surgery	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011 Jan;111(1):41-6	Seung-Mi Jeong et al.
4	Short-Term Retrospective Clinical Study of Resorbable Blasting Media Surface Tapered Implants.	J Korean Assoc Maxillofac Plast Reconstr Surg 2011;33(2):149-53	Young-Kyun Kim et al.
5	Early loading after sinus bone graft and simultaneous implant placement	Australasian Dental Practice 2011(March/April): 136-42	Young-Kyun Kim et al.
6	Evaluation of the feasibility of bony window repositioning without using a barrier membrane in sinus lateral approach	J Korean Assoc Oral Maxillofac Surg 2011;37(2):122-6	Chang-Joo Park et al.
7	A short-term clinical study of marginal bone level change around microthreaded and platform-switched implants	J Periodontal Implant Sci 2011;41:211-7	Kyoo-Sung Cho et al.
8	Analysis of Prognostic Factors after a Variety of Osstem® Implant Installation	J Korean Implantology(KAOMI) 2011;15(2):170-9	Young-Kyun Kim et al.
9	Clinical Comparison of Immediately Loaded and Delayed Loaded OSSTEM GSIII Implant in Partially Edentulous Patients	J Kor Stomatognathic Function occlusion 2011;27(3):267-75	Yang-Jin Yi et al.
10	A Prospective Multicenter Study on the Clinical Success Rate of the Osstem Implant (New GSII RBM) in Edentulous Patients	J Korean Implantology(KAOMI) 2011;15(2):142-52	Su-Kwan Kim et al.
11	A Relaxed Implant Bed: Implants Placed After Two Weeks of Osteotomy with Immediate Loading - A One Year Clinical Trial	Accepted in 2010 for Publication in J Oral Implantol.	Bansal DJ et al.
12	Subjective satisfaction of clinician and Short-termClinical Evaluation of Osstem TSIII SA Implant	J Korean Cilnical Implant 2010;30(7):430-43.	Young-Kyun Kim et al.
13	Short-term, Multi-center Prospective Clinical Study of Short Implants Measuring Less than 7mm	J Kor Dent Sci 2010;3(1):11-6	Young-Kyun Kim et al.
14	Effects of Flapless Implant Surgery on Soft Tissue Profiles: A Prospective Clinical Study	Clin Implant Dent Relat Res. 2011 Dec;13(4):324-9	Byung-Ho Choi et al.
15	Evaluation of Survival Rate and Crestal Bone Loss of the Osstem GS II Implant System	J Kor Dent Sci. 2009;3(1):30-3	Young-Kyun Kim et al.
16	Analysis of factors affecting crestal bone loss around the implants	J Kor Dent Sci. 2009;3(1):12-7	Young-Kyun Kim et al.
17	Retrospective study of GS II Implant(Osstem) with an internal connection with microthreads	J Kor Stomatognathic Function occlusion 2009;25(4):417-29	Young - Deok, Chee
18	Study On Radiographic Evaluation of Marginal Bone Loss Around Osseonintegrated Implant after Functional Loading	J Kor Oral Maxillofac Surg 2009;35:240-7	Se-Wook Koh et al.
19	Evaluation of Sinus Bone Resorption and Marginal Bone Loss after Sinus Bone Grafting and Implant Placement	Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2009;107:e21-8	Young-Kyun Kim et al.
20	Evaluation of Periimplant Tissue Response according to the Presence of Keratinized Mucosa	Oral Surg Oral Med Oral Pathol OralRadiol Endod 2009;107:e24-8	Young-Kyun Kim et al.
21	The Use of Buccinator Musculomucosal Flap in Implant	Accepted in 2009 for Publication in Int J Periodontics Restorative Dent	Young-Kyun Kim et al.
22	Observation of the Change of the Dental Implant Stability andBone Density Evaluation Methods	J Korean Acad Periodontol 2009;39(2):185-92	Sok-Min Ko et al.
23	Clinical and Radiographic Evaluation of Implants with Dualmicrothread:1-year Study	J Korean Acad Periodontol 2009;39(1):27-36	Ju-Youn Lee et al.
24	Short term Retrospective Clinical Study on GS II, SS III, US III	J Korean Implantology(KAOMI) 2008;12(2):12-22	Young-Kyun Kim et al.
25	Analysis of Clinical Application of Osstem (Korea) Implant System for 6 Years	J Korean Implantology(KAOMI) 2006;10(1):56-65	Young-Kyun Kim et al.

■TS System - Biology

No.	Title	Reference	Author
1	Effects of Soft Tissue Punch Size on the Healing of Peri-implant Tissue in Flapless Implant Surgery.	Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2010;109:525-30.	Byung-Ho Choi et al.
2	The Use of Autologous Venous Blood for Maxillary Sinus Floor Augmentation in Conjunction with Sinus Membrane Elevation: An Experimental Study.	Clin. Oral Impl. Res. 2010;21:346-9.	Byung-Ho Choi et al.
3	Morphogenesis of the Peri-Implant Mucosa: A Comparison between Flap and Flapless Procedures in the Canine Mandible	Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2009;107:66-70	Byung-Ho Choi et al.
4	Blood Vessels of the Peri-Implant Mucosa: A Comparison between Flap and Flapless Procedures	Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2009;107:508-12	Byung-Ho Choi et al.
5	Simultaneous Flapless Implant Placement and Peri-Implant Defect Correction: An Experimental Pilot Study in Dogs	J Periodontol 2008;79:876-80	Byung-Ho Choi et al.
6	The Effect of Thick Mucosa on Peri-implant Tissues: An Experimental Study in Dogs	J Periodontol 2008;79(11):2151-5	Byung-Ho Choi et al.
7	Er:YAG Laser Irradiated Implant Surface Observation with Scanning Electron Microscopy	J Korean Assoc Maxillofac Plast Reconstr Surg 2008;30(6):540-5	Seung-Ki Min et al.
8	Comparative Study of Removal Effect on Artificial Plaque from RBM Treated Implant	J Korean Assoc Maxillofac Plast Reconstr Surg 2007;29(4):309-20	Hee-Jyun Oh et al.
9	The Effect of Ca-P Coated Bovine Mineral on Bone Regeneration around Dental Implant in Dogs	J Korean Acad Periodontol 2006;36(4):913-23	Seoung-Ho Lee et al.
10	Scanning Electron Microscopic Study of Implant Surface after Er,Cr:YSGG Laser Irradiation	J Korean Assoc Maxillofac Plast Reconstr Surg 2006;28(5):454-69	Kyung-Hwan Kwon et al.

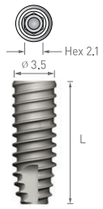
■TS System - Biomechanics

No.	Title	Reference	Author
1	Variation in the Total Lengths of Abutment/Implant Assemblies Generated with a Function of Applied Tightening Torque in External and Internal Implant-Abutment Connection.	Clin. Oral Impl. Res. 2011;22:834-9.	Ki-Seong Kim et al.
2	self-cutting blades and their influence on primary stability of taperd dental implants in a simulated low-density bone model: a laboratory study	Pathol. Oral. Radiol. Endod. 2011;112:573-580	Young-Jun Lim et al.
3	Screw Joint Stability under Cyclic Loading of Zirconia Implant Abutments	J Kor Acad Prosthodont 2009;47(2):164-73	Jae-Jun Ryu et al.
4	Fatigue Characteristics of Five Types of Implant-Abutment Joint Designs	METAL AND MATERIALS International 2008;14(2):133-8	Chang-Mo Jeong et al.
5	Influence of Tightening Torque on Implant-Abutment Screw Joint Stability	J Kor Acad Prosthodont 2008;46(4):396-408	Chang-Mo Jeong et al.
6	Effect of Casting Procedure on Screw Loosening of UCLA Abutment in Two Implant-Abutment Conncetion Systems	J Kor Acad Prosthodont 2008;46(3):246-54	Myung-Joo Kim et al.
7	Evaluation of Stability of Double Threaded Implant-Emphasis on Initial Stability Using Osstell Mentor™; Part I	J Kor Acad Stomatog Func Occlusion 2007;23(4)	Yong-Deok Kim ea al.
8	Influence of Tungsten Carbide/Carbon Coating of Implant-Abutment Screw on Screw Loosening	J Kor Acad Prosthodont 2008;46(2):137-47	Chang-Mo Jeong et al.
9	The Assessment of Abutment Screw Stability Between the External and Internal Hexagonal Joint under Cyclic Loading	J Kor Acad Prosthodont 2008;46(6):561-8	Jung-Suk Han et al.
10	Influence of Implant Fixture Design on Implant Primary Stability	J Kor Acad Prosthodont 2006;45(1):98-106	Seok-Gyu Kim et al.
11	Detorque Force of TiN-Coated Abutment Screw with Various Coating Thickness after Repeated Closing and Opening.	J Kor Acad Prosthodont 2007;45(6):769-79	Chae-Heon Chung et al.

OSSTEM Implant System Flow

TSII SA

- Bone level fixture of Internal Hex & 11° morse taper connection
- Stable connection of the upper part based on Rigid Motion Connection
- SA surface morphology and roughness increased by 45% compared to RBM treatment
- Straight body facilitates the adjustment of implantation depth
- Powerful Self threading



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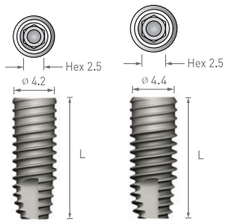

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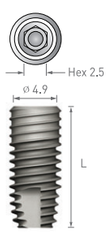

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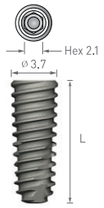
TSIII SA

- Bone level fixture of Internal Hex & 11° morse taper connection
- The initial stability for immediate & early loading
- The good feeling of fixture implantation
- The convenience of implant surgery
- Stable connection of the upper part based on Rigid Motion Connection
- SA surface morphology and roughness increased by 45% compared to RBM treatment
- Realize the convenient operation by making it possible to implant into various osseins



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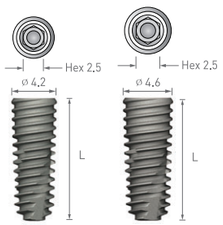

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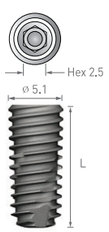

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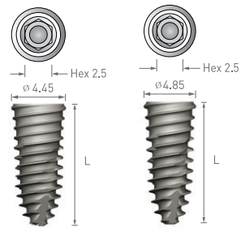
TSIII SA Ultra-Wide®

- Bone level fixture of Internal Hex & 11° morse taper connection
- SA surface morphology and roughness increased by 45% compared to RBM treatment.
- Compatible with TS Regular abutment components
- Wide Diameter Fixture
- Indication
  - 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)

TSIV SA

- Bone level fixture of Internal Hex & 11° morse taper connection
- 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.
- 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)



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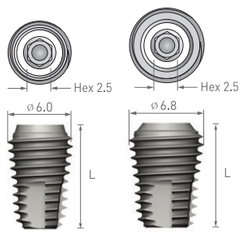
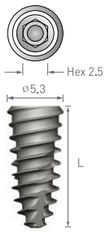


L : 6 7 8.5 10 11.5 13 15

TSIV SA Ultra-Wide®

- Bone level fixture of Internal Hex & 11° morse taper connection
- SA surface morphology and roughness increased by 45% compared to RBM treatment.
- Compatible with TS Regular abutment components
- Specially developed for maxilla and soft bones
  - High success rate even with poor bone quality.
- Wide Diameter Fixture
- Indication
  - Immediate placement at the extract socket
  - Immediate replacement of the failed implant



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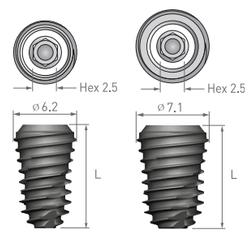
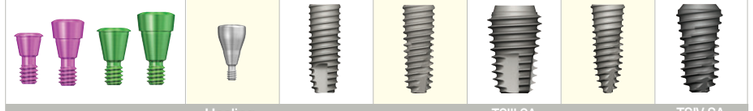
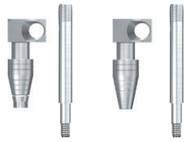


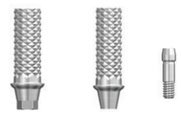
L : 7 8.5 10 11.5 13

TS Prosthesis Library

TS System



Type	Abutment	Protect Cap	Retraction Cap	Impression coping
Rigid				 (4.0 mm)
Transfer	 (Hex) (Non-Hex)			
Angled	 (A type) (B type) 30° (Hex) (Non-Hex)			
ZioCera/ ZioCera Angled	 (Hex) (Non-Hex)			 (Hex) (Non-Hex) Pick-up
GoldCast/ NP-CAST	 (Hex) (Non-Hex)			
FreeForm ST	 (Hex) (Non-Hex)			
Convertible				 Pick-up
Stud				O-rings System 
LOCATOR®		Replacement Male 		

	Lab Analog	Burn-out Cylinder	Etc
 (5.5mm) (7.0 mm)	 (4.0 mm) (5.5 mm) (7.0 mm)	 Single Bridge	 Finising Reamer
		Temporary Abutment	Bite Index
 (Hex) (Non-Hex) Transfer		 (Hex) (Non-Hex)	
 Transfer		Cylinder 	Polishing Protect Cap 
			
Extended Replacement Male 		Core Tool 	Torque Driver 

TS SYSTEM

OSSTEM IMPLANT SYSTEM

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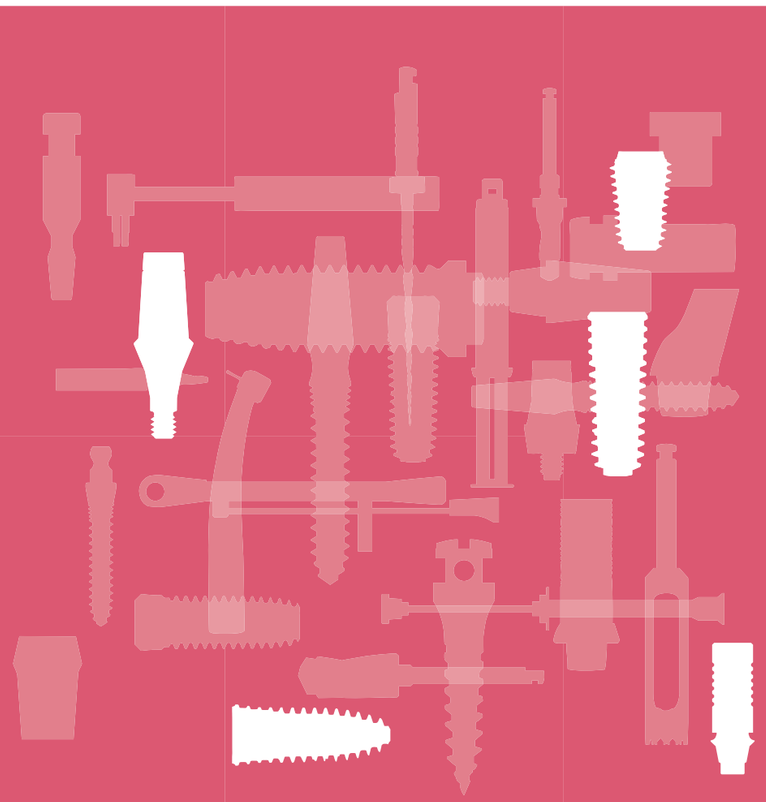
Fixture and **Restorative Components**



TS SYSTEM

EARLY & **ESTHETIC**
OSSTEM IMPLANT

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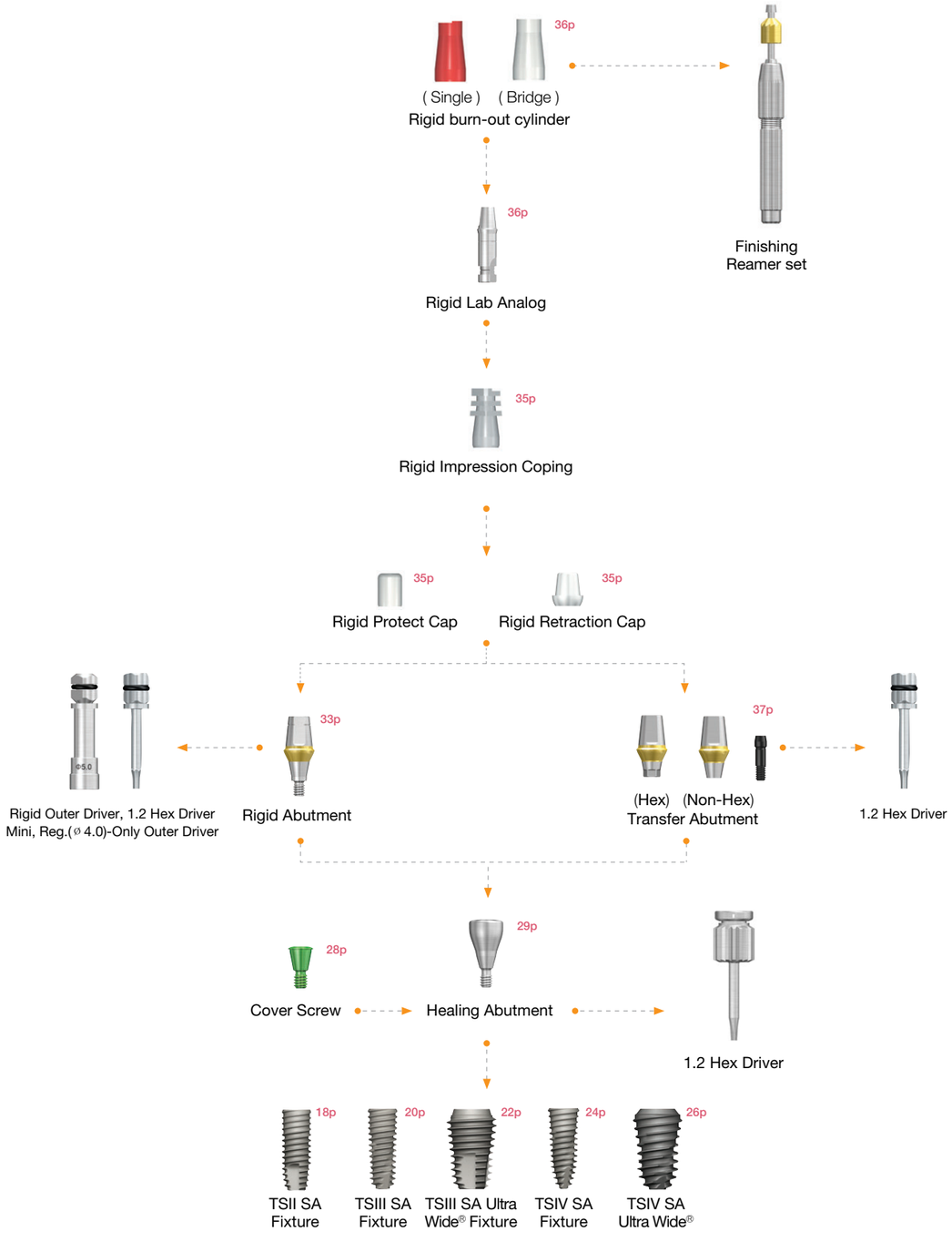
TS Components

28 Simple Mount
28 Cover Screw
29 Healing Abutment
33 Rigid Abutment Components
37 Transfer Abutment Components
43 Angled Abutment
44 ZioCera Abutment
45 ZioCera Angled Abutment
46 GoldCast Abutment
47 NP-CAST Abutment
48 FreeForm ST Abutment
49 Convertible Abutment Components
53 Stud Abutment Components
56 Locator® Components

Prosthetic Flow Diagrams for TS System

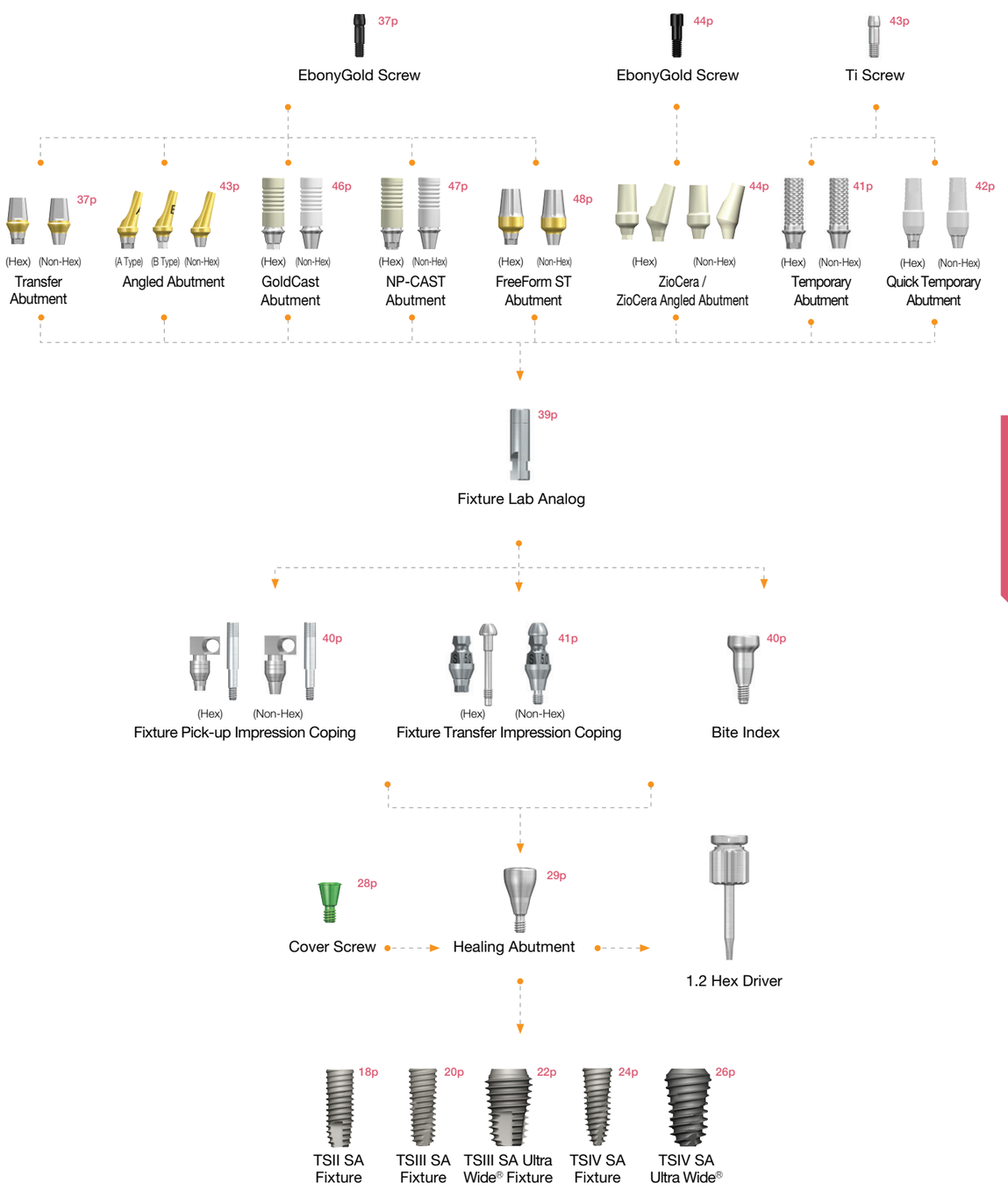
Cement Retained Restoration : Rigid & Transfer • Mini, Regular



Prosthetic Flow Diagrams for TS System

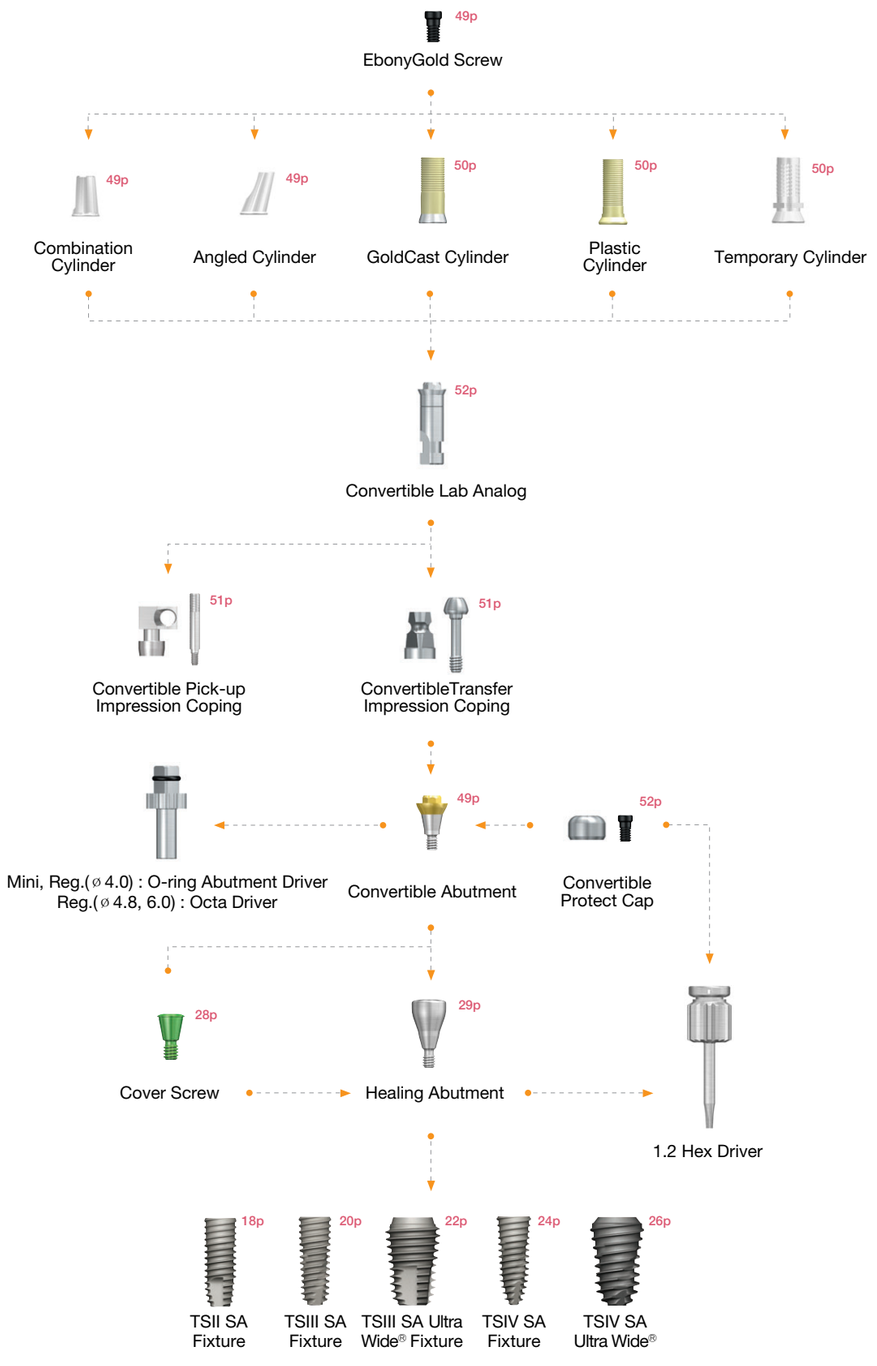
Cement Retained Restoration : Transfer, Angled, ZioCera, ZioCera Angled, GoldCast, NP-CAST, FreeForm ST

Screw Retained Restoration : ZioCera, ZioCera Angled, GoldCast, Temporary, Quick Temporary, NP-CAST • Mini, Regular



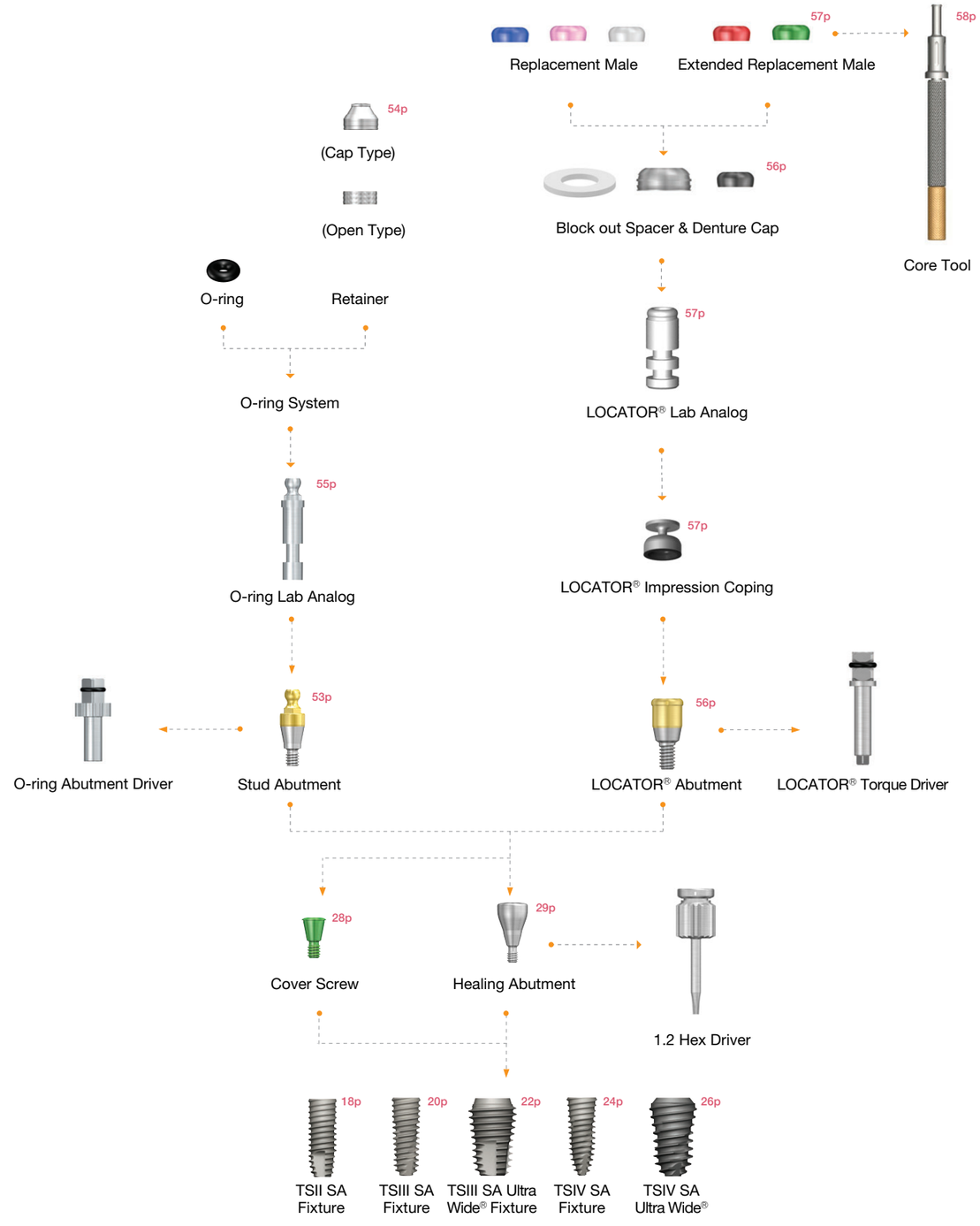
Prosthetic Flow Diagrams for TS System

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

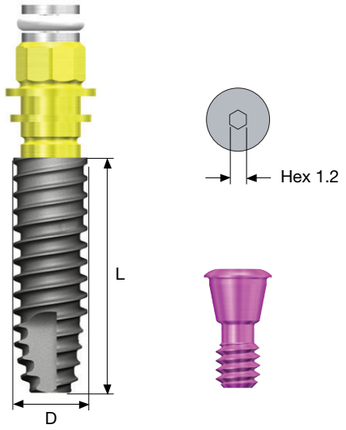


Prosthetic Flow Diagrams for TS System

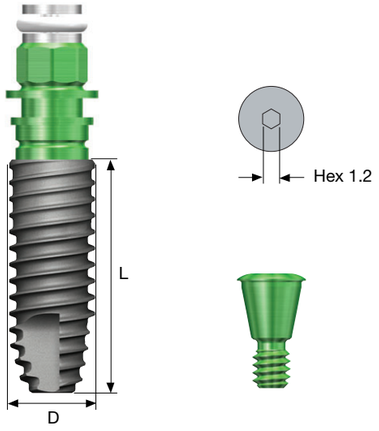
Overdenture Restoration : Stud / LOCATOR® Abutment • Mini, Regular



TSII SA Fixture



Fixture 3.5



Fixture 4.0/4.5/5.0

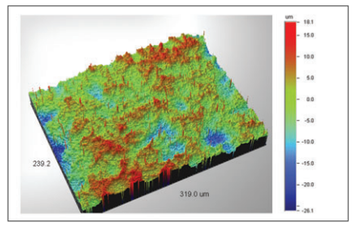
TSII SA Fixture Order Code

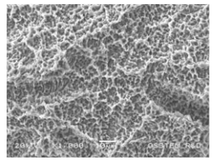
Fixture Only
- Fixture : Product Code [ex : TS2S4010S]

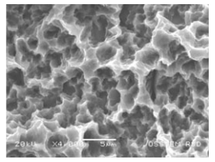
Pre-Mounted Fixture [Simple Mount]
- Fixture + Mount + Cover Screw : B + Product Code [ex : BTS2S4010S]

Feature of TSII SA 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㎛
  - 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 perfomance
- Small Thread : Increase initial stability in soft bone
- Corkscrew thread : Powerful Self threading
- Limited insertion torque : 40Ncm



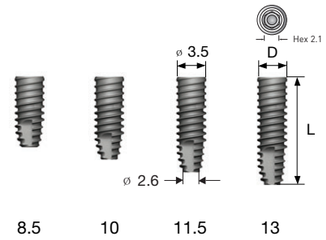




※ We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.

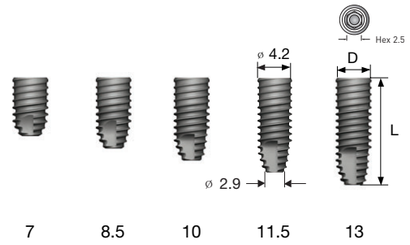
※ The following labeled dimension may differ from the actual dimension.

Mini — Diameter ø 3.5



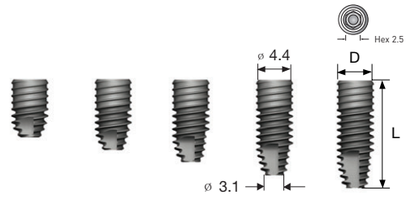
Connection / L \ D	Mini ø 3.5
7	-
8.5	TS2M3508S
10	TS2M3510S
11.5	TS2M3511S
13	TS2M3513S

Regular — Diameter ø 4.0



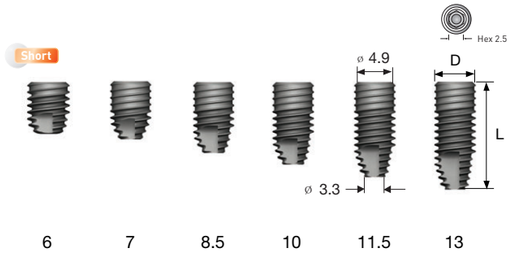
Connection / L \ D	Regular ø 4.0
7	TS2S4007S
8.5	TS2S4008S
10	TS2S4010S
11.5	TS2S4011S
13	TS2S4013S

Regular — Diameter ø 4.5



Connection / L \ D	Regular ø 4.5
7	TS2S4507S
8.5	TS2S4508S
10	TS2S4510S
11.5	TS2S4511S
13	TS2S4513S

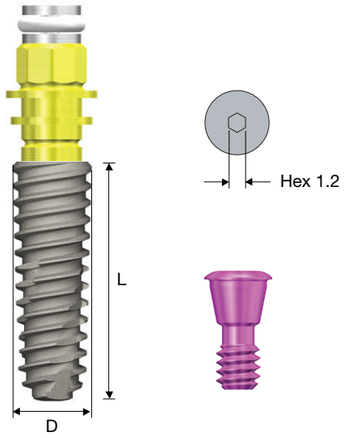
Regular — Diameter ø 5.0



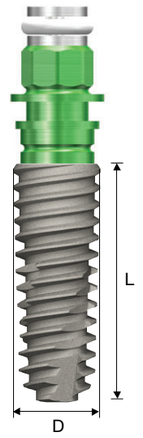
Connection / L \ D	Regular ø 5.0
6	TS2S5006S
7	TS2S5007S
8.5	TS2S5008S
10	TS2S5010S
11.5	TS2S5011S
13	TS2S5013S

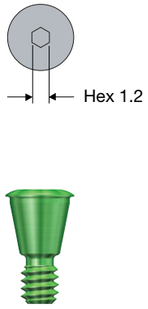
※ Note : Short implant require sufficient curing period and, in the process of prosthesis, should be used splinting with another implant.

TSIII SA Fixture



Fixture 3.5





Fixture 4.0/4.5/5.0

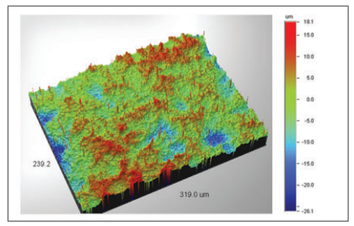
TSIII SA Fixture Order Code

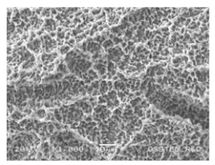
Fixture Only
- Fixture : Product Code [ex : TS3S4010S]

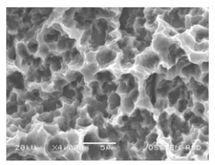
Pre-Mounted Fixture [Simple Mount]
- Fixture + Mount + Cover Screw : B + Product Code [ex : BTS3S4010S]

Feature of TSIII SA 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㎛
  - 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





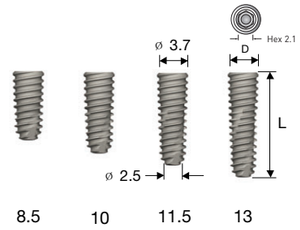


※ **We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.**

M R Connection

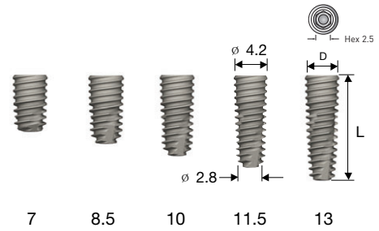
※ The following labeled dimension may differ from the actual dimension.

Mini — Diameter ø 3.5



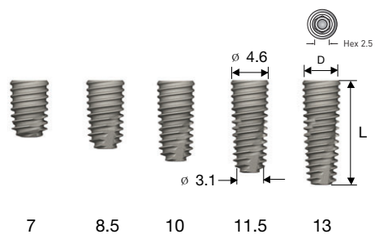
Connection	Mini
L \ D	ø 3.5
7	-
8.5	TS3M3508S
10	TS3M3510S
11.5	TS3M3511S
13	TS3M3513S

Regular — Diameter ø 4.0



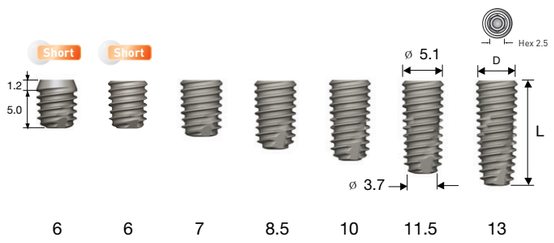
Connection	Regular
L \ D	ø 4.0
7	TS3S4007S
8.5	TS3S4008S
10	TS3S4010S
11.5	TS3S4011S
13	TS3S4013S

Regular — Diameter ø 4.5



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

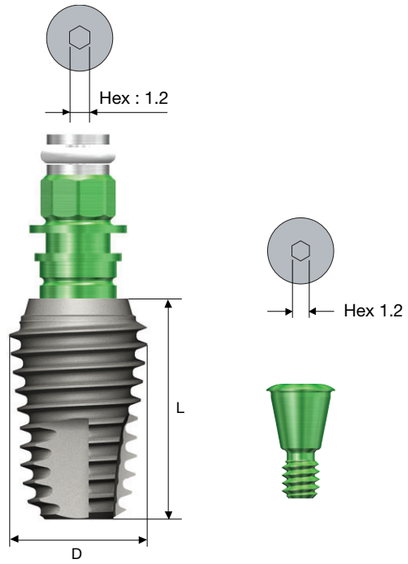
Regular — Diameter ø 5.0



Connection	Regular
L \ D	ø 5.0
6	TS3S5005S
6	TS3S5006S
7	TS3S5007S
8.5	TS3S5008S
10	TS3S5010S
11.5	TS3S5011S
13	TS3S5013S

※ Note : Short implant require sufficient curing period and, in the process of prosthesis, should be used splinting with another implant.

TSIII SA Ultra - Wide® Fixture



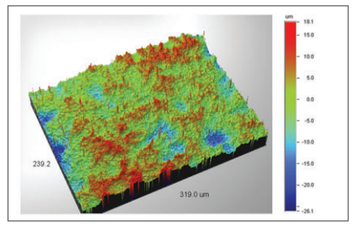
TSIII SA Ultra - Wide® Fixture Order Code

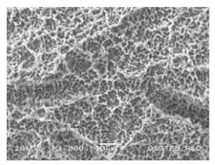
Fixture Only
- Fixture : Product Code (ex : TS3S6010S)

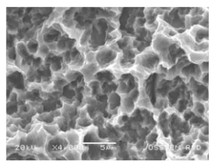
Pre-Mounted Fixture (Simple Mount)
- Fixture + Simple Mount + Cover Screw : B + Fixture Product Code (ex : BTS3S6010S)

Feature of TSIII SA 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 ㎛
  - Early cell response : 20% faster than RBM
  - Early bone healing : 20% faster than RBM
  - Early loading possible after 6 weeks of placement.
- Compatible with TS 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



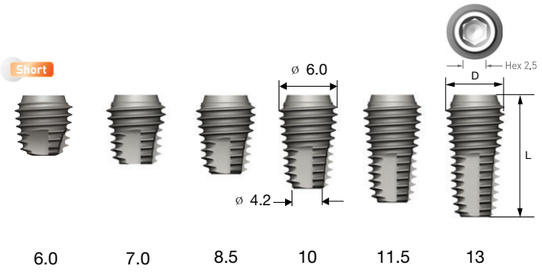




R Connection

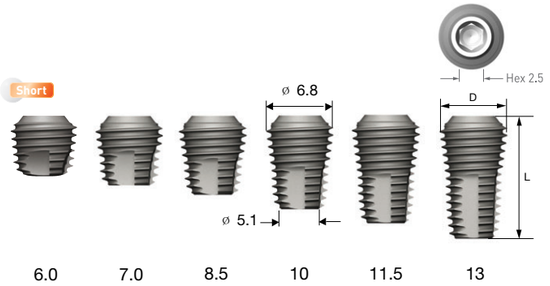
※ The following labeled dimension may differ from the actual dimension.

Regular Diameter ø 6.0



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

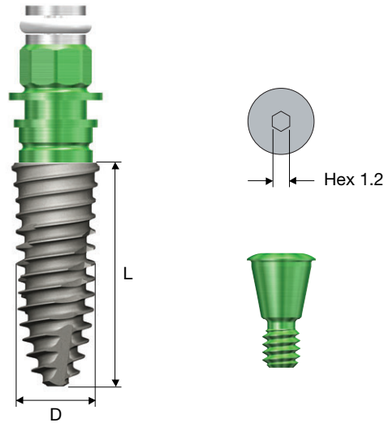
Regular Diameter ø 7.0



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

※ Note : Short implant require sufficient curing period and, in the process of prosthesis, should be used splinting with another implant.

TSIV SA Fixture



Fixture 4.0/4.5/5.0

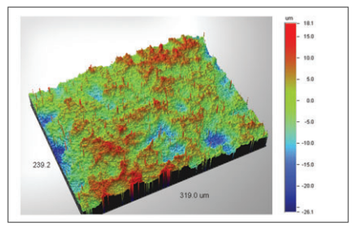
TSIV SA Fixture Order Code

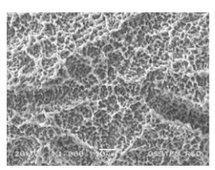
Fixture Only
- Fixture : Product Code [ex : TS4S4010S]

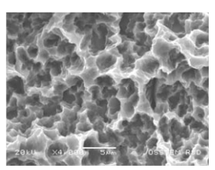
Pre-Mounted Fixture [Simple Mount]
- Fixture + Mount + Cover Screw : B + Product Code [ex : BTS4S4010S]

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㎛
  - Early cell response : 20% faster than RBM
  - Early bone healing : 20% faster than RBM
  - Early loading possible after 6 weeks of placement.
- Compatible with TS 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 ø2, ø3mm drilling depth
- Limited insertion torque : 40Ncm





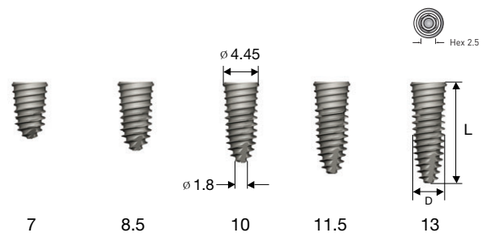


※ **We recommend that the fixture with over 4.5mm diameter is used for single case in Molar.**

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

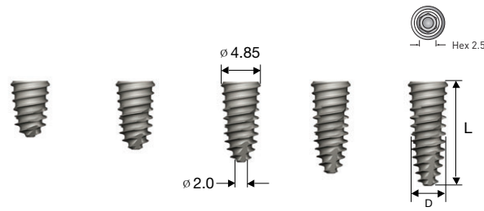
※ The following labeled dimension may differ from the actual dimension.

Regular — Diameter ø 4.0



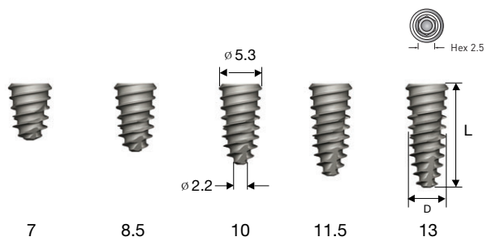
Connection / L \ D	Regular ø 4.0(Pitch 0.8)
7	TS4S4007S
8.5	TS4S4008S
10	TS4S4010S
11.5	TS4S4011S
13	TS4S4013S

Regular — Diameter ø 4.5



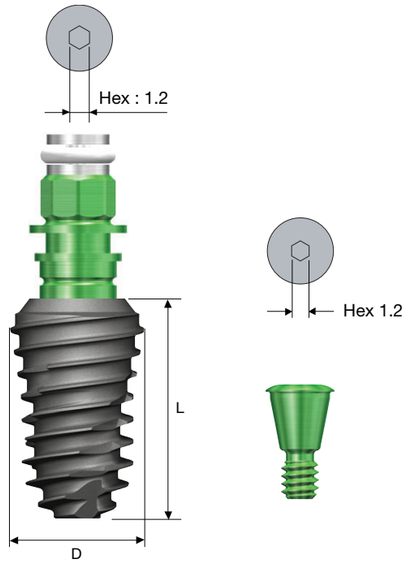
Connection / L \ D	Regular ø 4.5(Pitch 1.0)
7	TS4S4507S
8.5	TS4S4508S
10	TS4S4510S
11.5	TS4S4511S
13	TS4S4513S

Regular — Diameter ø 5.0



Connection / L \ D	Regular ø 5.0(Pitch 1.2)
7	TS4S5007S
8.5	TS4S5008S
10	TS4S5010S
11.5	TS4S5011S
13	TS4S5013S

TSIV SA Ultra - Wide® Fixture



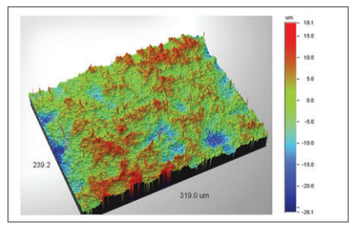
TSIV SA Ultra - Wide® Fixture Order Code

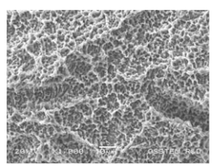
Fixture Only
- Fixture : Product Code (ex : TS4S6010S)

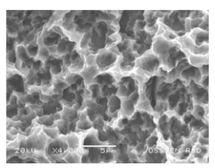
Pre-Mounted Fixture (Simple Mount)
- Fixture + Simple Mount + Cover Screw : B + Fixture Product Code (ex : BTS4S6010S)

Feature of TSIV SA 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㎛
  - Early cell response : 20% faster than RBM
  - Early bone healing : 20% faster than RBM
  - Early loading possible after 6 weeks of placement.
- Compatible with TS Regular abutmesnt components
- Specially developed for maxilla and soft bones
  - High success rate even with poor bone quality.
- 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
- 3-bladed cutting edge with excellent self-tapping force
- Limited insertion torque : 40Ncm



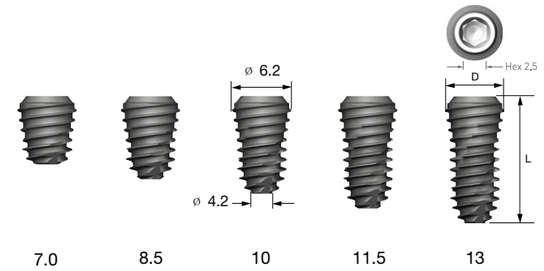




R Connection

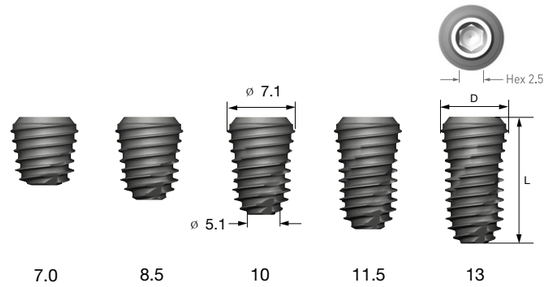
※ The following labeled dimension may differ from the actual dimension.

Regular Diameter ø 6.0



Connection	Regular
L \ D	ø 6.0
7	TS4S6007S
8.5	TS4S6008S
10	TS4S6010S
11.5	TS4S6011S
13	TS4S6013S

Regular Diameter ø 7.0



Connection	Regular
L \ D	ø 7.0
7	TS4S7007S
8.5	TS4S7008S
10	TS4S7010S
11.5	TS4S7011S
13	TS4S7013S

Simple Mount

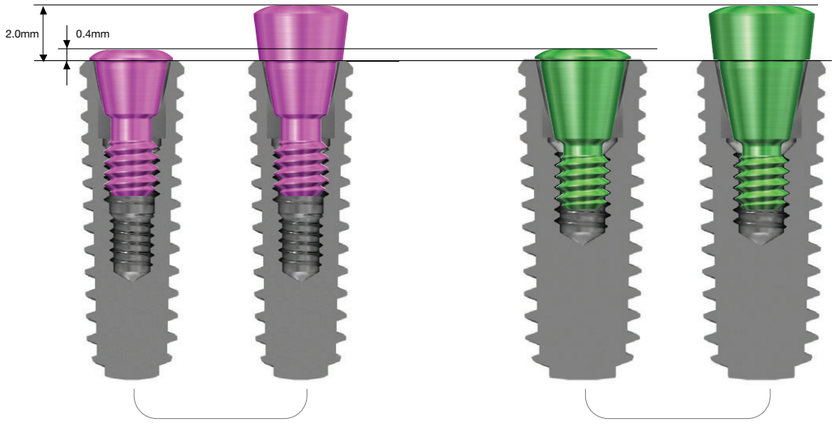
Color	Yellow		Green	
Fixture	ø3.5		ø4.0, ø4.5, ø5.0, ø6.0, ø7.0	
Code	GISMY-3015A	GSSMY	GISMG-3512A	GSSSG

- Color indication facilitates easy identification in the oral cavity
  ø3.5 : Yellow,
  ø4.0, ø4.5, ø5.0, ø6.0, ø7.0 : Green
- Use a 1.2 hex driver to remove screws
- Packing unit : Mount + Mount Screw
- Tightening torque : 8-10Ncm

Cover Screw

Color	Purple		Green	
Fixture	ø3.5		ø4.0, ø4.5, ø5.0, ø6.0, ø7.0	
Code	GSCS35	GSCS35L	GSCS40S-G	GSCS40L-G

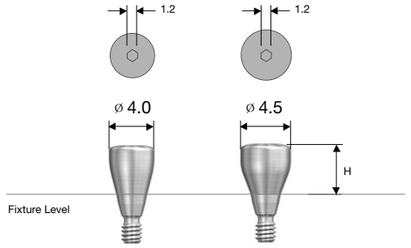
- Color to easily distinguish the locations of the implemented fixtures
  ø3.5 fixture : Purple
  ø4.0, ø4.5, ø5.0 fixture : Green
- Use a long cover screw when fixture implanted under the bone level
  ø3.5 Fixture : Green
  ø4.0/ ø4.5/ ø5.0/ ø6.0/ ø7.0 : Blue
- Use a 1.2 hex driver
- Packing unit : Cover screw
- Tightening torque : 5-8 Ncm



(Fixture ø3.5) (Fixture ø4.0, ø4.5, ø5.0, ø6.0, ø7.0)

Healing Abutment

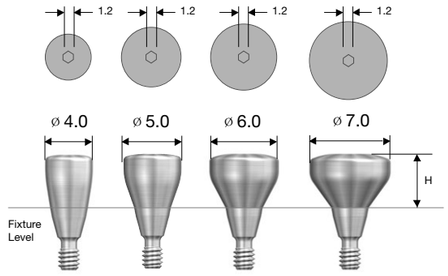
Mini



D \ H	Mini 3.0	4.0	5.0	7.0
ø4.0	TSHA403M	TSHA404M	TSHA405M	TSHA407M
ø4.5	TSHA453M	TSHA454M	TSHA455M	TSHA457M

- Use a 1.2 hex driver
- Packing unit : Healing abutment
- Tightening torque : Hand tightening (less then 10Ncm)

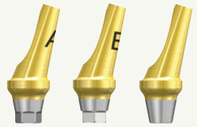
Regular



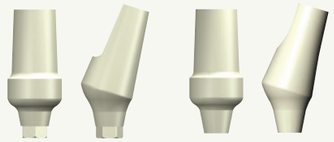
D \ H	Regular 3.0	4.0	5.0	7.0
ø4.0	TSHA403R	TSHA404R	TSHA405R	TSHA407R
ø5.0	TSHA503R	TSHA504R	TSHA505R	TSHA507R
ø6.0	TSHA603R	TSHA604R	TSHA605R	TSHA607R
ø7.0	TSHA703R	TSHA704R	TSHA705R	TSHA707R

※ Matching Table for Healing ABT. & Abutment

Healing ABT.(H)	3	4	5	7
Abutment (G/H)	1	2 or 3	3 or 4	More than 5
Imp. coping	Short type		Long type	



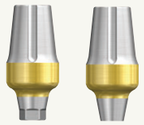
Angled



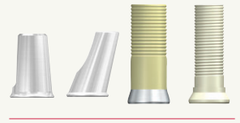
ZioCera
ZioCera Angled

Transfer

GoldCast



FreeForm ST



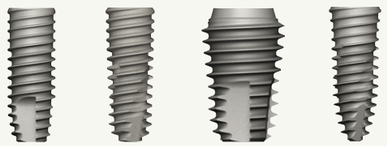
Cylinder

Convertible

Stud LOCATOR®

Rigid

NP-CAST



TS System

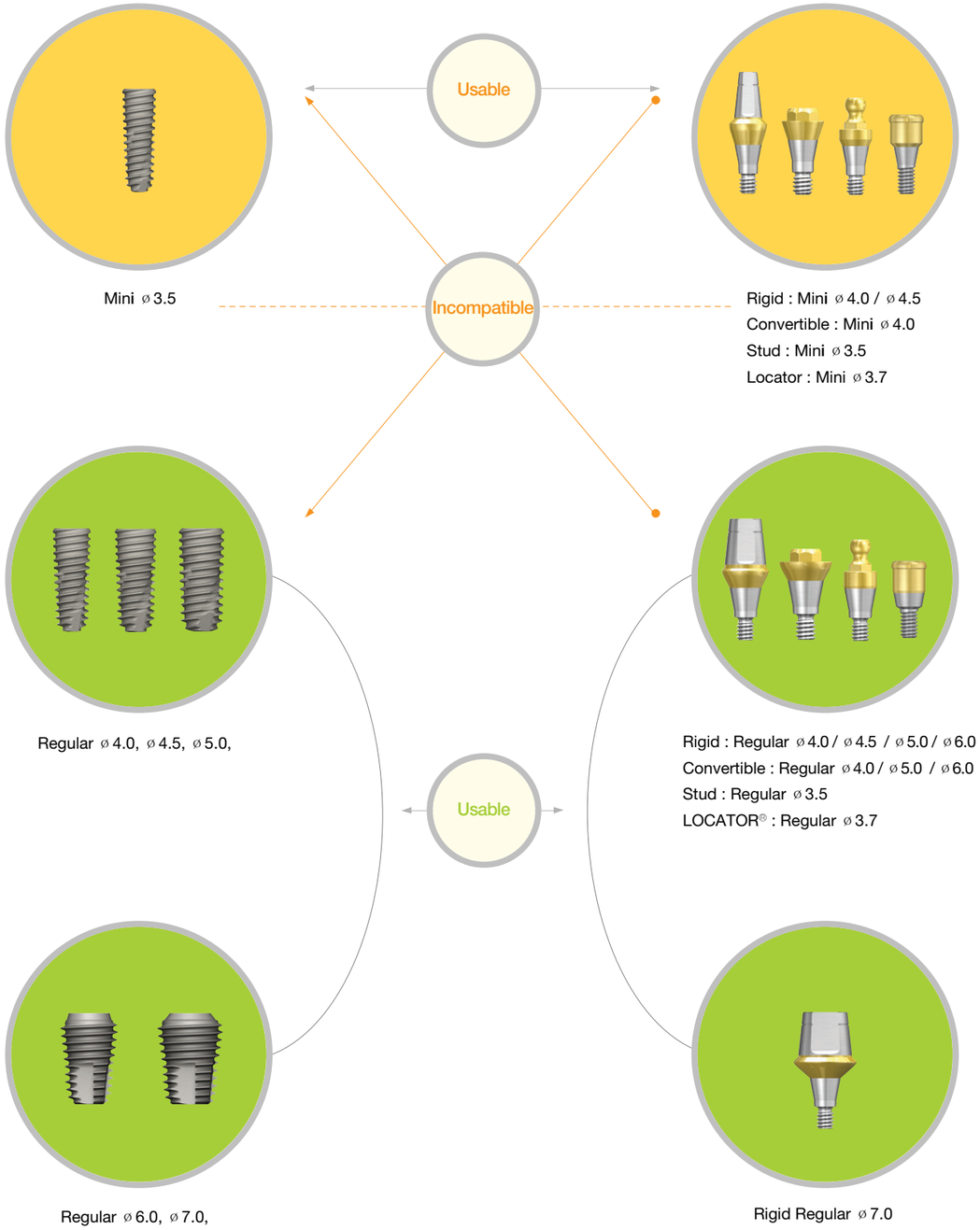
Components Guide

OSSTEM Implant System

Early & Esthetic OSSTEM IMPLANT

Smile Designer

Compatibility Guide for TS System (Fixture-Abutment)

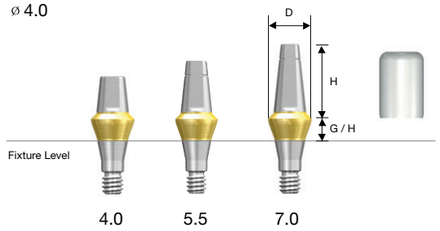


Rigid Abutment Components

Rigid Abutment
Cement Retained Restoration

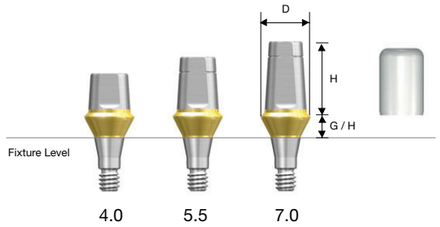
Mini

ø4.0

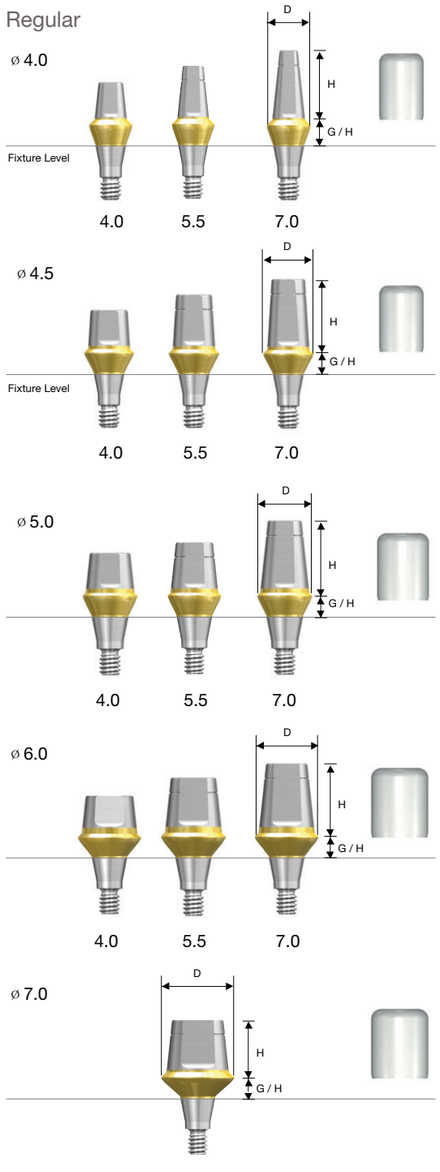


H	G/H \ D	ø4.0	ø4.5
4.0	1.0	GSRA4410	GSRA4411
	2.0	GSRA4420	GSRA4421
	3.0	GSRA4430	GSRA4431
	4.0	GSRA4440	GSRA4441
	5.0	GSRA4450	GSRA4451
5.5	1.0	GSRA4610	GSRA4611
	2.0	GSRA4620	GSRA4621
	3.0	GSRA4630	GSRA4631
	4.0	GSRA4640	GSRA4641
	5.0	GSRA4650	GSRA4651
7.0	1.0	GSRA4710	GSRA4711
	2.0	GSRA4720	GSRA4721
	3.0	GSRA4730	GSRA4731
	4.0	GSRA4740	GSRA4741
	5.0	GSRA4750	GSRA4751

ø4.5



Regular



H	G/H \ D	ø 4.0	ø 4.5	ø 5.0
4.0	1.0	GSRAS4410	GSRAS4411	GSRA5410
	2.0	GSRAS4420	GSRAS4421	GSRA5420
	3.0	GSRAS4430	GSRAS4431	GSRA5430
	4.0	GSRAS4440	GSRAS4441	GSRA5440
	5.0	GSRAS4450	GSRAS4451	GSRA5450
5.5	1.0	GSRAS4610	GSRAS4611	GSRA5610
	2.0	GSRAS4620	GSRAS4621	GSRA5620
	3.0	GSRAS4630	GSRAS4631	GSRA5630
	4.0	GSRAS4640	GSRAS4641	GSRA5640
	5.0	GSRAS4650	GSRAS4651	GSRA5650
7.0	1.0	GSRAS4710	GSRAS4711	GSRA5710
	2.0	GSRAS4720	GSRAS4721	GSRA5720
	3.0	GSRAS4730	GSRAS4731	GSRA5730
	4.0	GSRAS4740	GSRAS4741	GSRA5740
	5.0	GSRAS4750	GSRAS4751	GSRA5750

H	G/H \ D	ø 6.0	ø 7.0
4.0	1.0	GSRA6410	-
	2.0	GSRA6420	-
	3.0	GSRA6430	-
	4.0	GSRA6440	-
	5.0	GSRA6450	-
5.5	1.0	GSRA6610	GSRA7610
	2.0	GSRA6620	GSRA7620
	3.0	GSRA6630	GSRA7630
	4.0	GSRA6640	GSRA7640
	5.0	GSRA6650	GSRA7650
7.0	1.0	GSRA6710	-
	2.0	GSRA6720	-
	3.0	GSRA6730	-
	4.0	GSRA6740	-
	5.0	GSRA6750	-

- Use for making general cement-type prosthesis
- Abutment and screw in one
- 11° taper connection for excellent safety
- Gingival gold color for aesthetic effect
- Cross-section design for the prevention of prosthesis rotation
- ø 4.0 : Use an outer driver
  ø 4.5, ø 5.0, ø 6.0 : Use an outer driver and a 1.2 hex driver
  ø 7.0 : Use a 1.2 hex driver
- Packing unit : Abutment + Protect Cap
- Tightening torque : 30 Ncm

Order code - Abutment + Protect cap: Product code + P (ex: GSRA5620P)

Rigid Protect Cap

H \ D	Mini / Regular ø 4.0	Mini / Regular ø 4.5
4.0	GSRPC440	GSRPC441
5.5	GSRPC460	GSRPC461
7.0	GSRPC470	GSRPC471

H \ D	Regular ø 5.0	Regular ø 6.0	Regular ø 7.0
4.0	GSRPC540	GSRPC640	-
5.5	GSRPC560	GSRPC660	GSRPC760
7.0	GSRPC570	GSRPC670	-

- Use for the protection of the rigid abutment in the oral cavity and to minimize the patient's discomfort
- Applicable as a substructure of temporary prosthesis
- Convenient locking
- Packing unit : Protect Cap

Rigid Retraction Cap

H \ D	Mini / Regular ø 4.0	Mini / Regular ø 4.5
4.0	GSRRC440	GSRRC441
5.5	GSRRC460	GSRRC461
7.0	GSRRC470	GSRRC471

H \ D	Regular ø 5.0	Regular ø 6.0	Regular ø 7.0
4.0	GSRRC540	GSRRC640	-
5.5	GSRRC560	GSRRC660	GSRRC760
7.0	GSRRC570	GSRRC670	-

- Packing unit : Retraction cap
- Possible to take impression in accuracy for margin

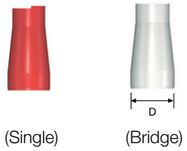
Rigid Impression Coping

H \ D	Mini / Regular ø 4.0	Mini / Regular ø 4.5
4.0(Yellow)	GSRIC440S	GSRIC441S
5.5(Gray)	GSRIC460S	GSRIC461S
7.0(Blue)	GSRIC470S	GSRIC471S

H \ D	Regular ø 5.0	Regular ø 6.0	Regular ø 7.0
4.0(Yellow)	GSRIC540S	GSRIC640S	-
5.5(Gray)	GSRIC560S	GSRIC660S	GSRIC760S
7.0(Blue)	GSRIC570S	GSRIC670S	-

- Use for taking an impression of rigid abutments
- Color indication enables the easy identification of abutments of varying lengths 4mm (Yellow), 5.5mm (Gray), 7.0mm (blue)
- Convenient locking
- Packing unit : Impression coping

Rigid Burn-out Cyinder



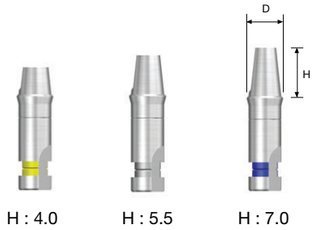
(Single) (Bridge)

Type \ D	Mini / Regular	
	ø 4.0	ø 4.5
Single	GSRP400S	GSRP450S
Bridge	GSRP400B	GSRP450B

Type \ D	Regular		
	ø 5.0	ø 6.0	ø 7.0
Single	GSRP500S	GSRP600S	GSRP700S
Bridge	GSRP500B	GSRP600B	GSRP700B

- Use as a prosthetic framework by connecting to Rigid Lab analogs
- Color indication facilitates the identification of different cases
  Single (**Red** color), Bridge (**White** color)
- After prosthetic casting, the margin may be adjusted by a special-purpose reamer
- Packing unit : Burn-out Cylinder

Rigid Lab Analog



H : 4.0 H : 5.5 H : 7.0

H \ D	Mini / Regular	
	ø 4.0	ø 4.5
4.0(Yellow)	GSRLA440	GSRLA441
5.5(Gray)	GSRLA460	GSRLA461
7.0(Blue)	GSRLA470	GSRLA471

H \ D	Regular		
	ø 5.0	ø 6.0	ø 7.0
4.0(Yellow)	GSRLA540	GSRLA640	-
5.5(Gray)	GSRLA560	GSRLA660	GSRLA760
7.0(Blue)	GSRLA570	GSRLA670	-

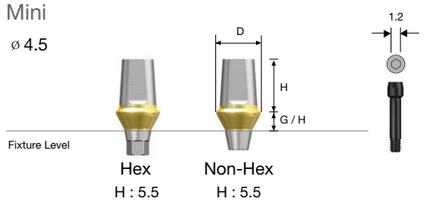
- Make rigid abutments on a working model
- Color indication enables the easy identification of abutments of varying lengths
  4mm (Yellow), 5.5mm (Gray), 7.0mm (blue)
- Packing unit : Lab analog

Transfer Abutment Components

Transfer Abutment - Cement Retained Restoration

Mini

ø 4.5



Hex
H : 5.5

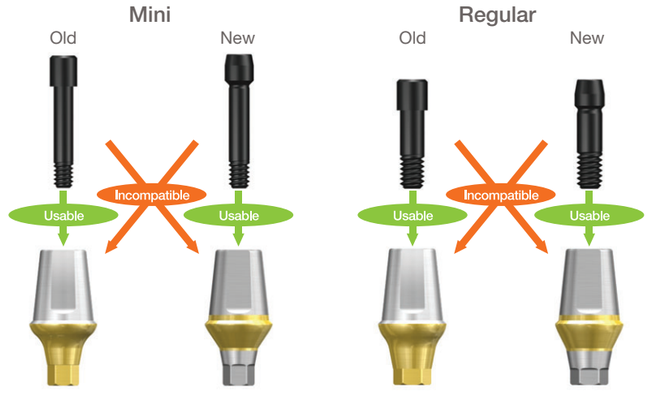
Non-Hex
H : 5.5

H	G/H \ D	ø 4.5	
		Hex	Non-Hex
5.5	1.0	GSTA4611	GSTA4611N
	2.0	GSTA4621	GSTA4621N
	3.0	GSTA4631	GSTA4631N
	4.0	GSTA4641	GSTA4641N
	5.0	GSTA4651	GSTA4651N
7.0	1.0	GSTA4711	GSTA4711N
	2.0	GSTA4721	GSTA4721N
	3.0	GSTA4731	GSTA4731N
	4.0	GSTA4741	GSTA4741N
	5.0	GSTA4751	GSTA4751N
EbonyGold Screw		GSABSM	

- Use for making general cement-type prosthesis
- 11˚ taper connection for excellent safety
- Gingival gold color for aesthetic effect
- Cross-section design for the prevention of prosthesis rotation
- 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 : GSTA5620WH)

※ Old screw(GSASM, GSASR) is not compatible with the new screw(GSABSM, GSABSS).
Refer to the illustration below, please note the connection.

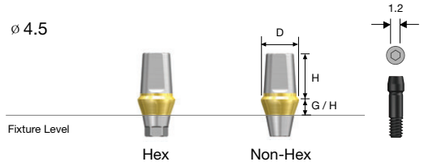


New ABT VS. Old screw Old ABT VS. New screw

※ To prevent loosening or fracture retightening (2~3 times) is recommended.

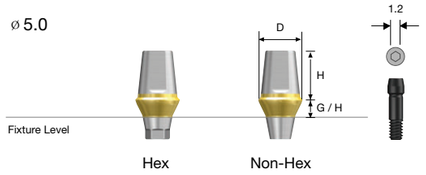
Regular

ø 4.5



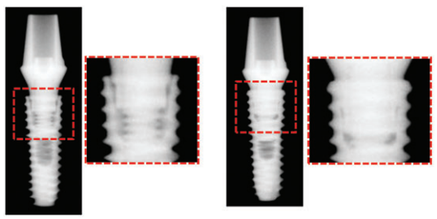
H	D / G/H	ø 4.5 Hex	ø 4.5 Non-Hex
5.5	1.0	GSTAS4611	GSTAS4611N
	2.0	GSTAS4621	GSTAS4621N
	3.0	GSTAS4631	GSTAS4631N
	4.0	GSTAS4641	GSTAS4641N
	5.0	GSTAS4651	GSTAS4651N
7.0	1.0	GSTAS4711	GSTAS4711N
	2.0	GSTAS4721	GSTAS4721N
	3.0	GSTAS4731	GSTAS4731N
	4.0	GSTAS4741	GSTAS4741N
	5.0	GSTAS4751	GSTAS4751N
EbonyGold Screw		GSABSS	

ø 5.0



H	D / G/H	ø 5.0 Hex	ø 5.0 Non-Hex
4.0	1.0	GSTA5410	GSTA5410N
	2.0	GSTA5420	GSTA5420N
	3.0	GSTA5430	GSTA5430N
	4.0	GSTA5440	GSTA5440N
	5.0	GSTA5450	GSTA5450N
5.5	1.0	GSTA5610	GSTA5610N
	2.0	GSTA5620	GSTA5620N
	3.0	GSTA5630	GSTA5630N
	4.0	GSTA5640	GSTA5640N
	5.0	GSTA5650	GSTA5650N
7.0	1.0	GSTA5710	GSTA5710N
	2.0	GSTA5720	GSTA5720N
	3.0	GSTA5730	GSTA5730N
	4.0	GSTA5740	GSTA5740N
	5.0	GSTA5750	GSTA5750N
EbonyGold Screw		GSABSS	

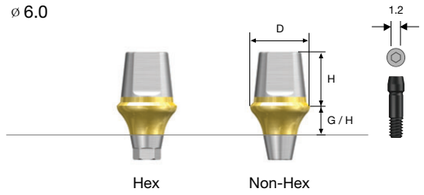
※ A wrong connection may be caused by the incorrect setting of the hex with the fixture hex or interference with bone or adjacent tissue surrounding the installed fixture. The former can be corrected by fixing the hex part setting and checking with an x-ray, and the latter, by removing the interference using tools such as a bone profiler and verifying the exact connection .



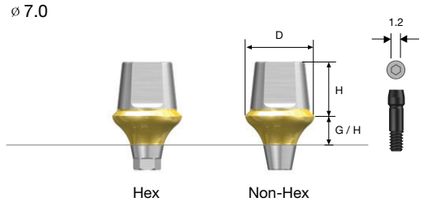
Bad

Good

ø 6.0

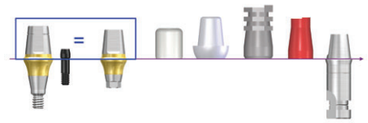


ø 7.0



H	D / G/H	ø 6.0 Hex	ø 6.0 Non-Hex
4.0	1.0	GSTA6410	GSTA6410N
	2.0	GSTA6420	GSTA6420N
	3.0	GSTA6430	GSTA6430N
	4.0	GSTA6440	GSTA6440N
	5.0	GSTA6450	GSTA6450N
5.5	1.0	GSTA6610	GSTA6610N
	2.0	GSTA6620	GSTA6620N
	3.0	GSTA6630	GSTA6630N
	4.0	GSTA6640	GSTA6640N
	5.0	GSTA6650	GSTA6650N
7.0	1.0	GSTA6710	GSTA6710N
	2.0	GSTA6720	GSTA6720N
	3.0	GSTA6730	GSTA6730N
	4.0	GSTA6740	GSTA6740N
	5.0	GSTA6750	GSTA6750N
EbonyGold Screw		GSABSS	

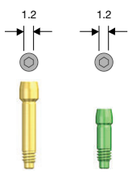
H	D / G/H	ø 7.0 Hex	ø 7.0 Non-Hex
5.5	1.0	GSTA7610	GSTA7610N
	2.0	GSTA7620	GSTA7620N
	3.0	GSTA7630	GSTA7630N
	4.0	GSTA7640	GSTA7640N
	5.0	GSTA7650	GSTA7650N
EbonyGold Screw		GSABSS	



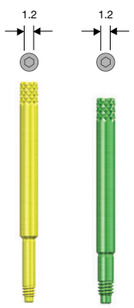
※ The shapes of the upper parts of the margin of TS Transfer abutment and TS Rigid abutment are the same. As such, all the components used for TS Rigid abutment can also be utilized for the TS Transfer abutment.

Laboratory Screw

Lab Screw



Waxing Screw



		Mini	Regular
Code	Lab Screw	GSABSML	GSABSSL
	Waxing Screw	GSABSMW	GSABSSW

- Packing unit : Laboratory screw

- Lab Screw : Use for laboratory work instead of abutment screw.
- Waxing Screw : Use for making a screw hole of a transfer jig or wax-up part.

Fixture Lab Analog

	Mini	Regular
Code	GSTLA350	GSTLA400

- Oral fixtures are built on the working model
- Packing unit : Lab analog

Bite Index

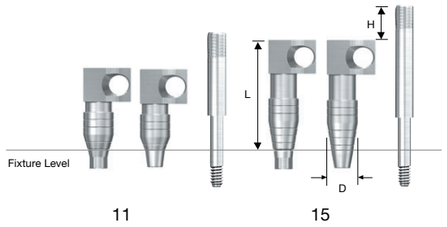
Mini Regular

L \ D	Mini	Regular
	ø 4.5	ø 5.5
4.0	GSBIM4504S	GSBIS5504S
6.0	GSBIM4506S	GSBIS5506S
8.0	GSBIM4508S	GSBIS5508S
10.0	GSBIM4510S	GSBIS5510S
12.0	GSBIM4512S	GSBIS5512S

- Use for taking a bite registration at Fixture level impression
- Use for taking a bite registration after final impression
- Use a 1.2 Hex driver
- Packing Unit: Bite Index 2ea

Fixture Pick-up Impression Coping

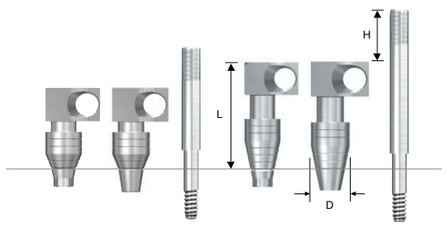
Mini



11 15

L		Type \ D	ø 4.0
11		Hex	GSPIM4011
		Non-Hex	GSPIM4011N
Guide Pin (H)	0	-	GSPGPM100
	5.0	-	GSPGPM150*
15		Hex	GSPIM4015
		Non-Hex	GSPIM4015N
Guide Pin (H)	0	-	GSPGPM100L
	5.0	-	GSPGPM150L*

Regular

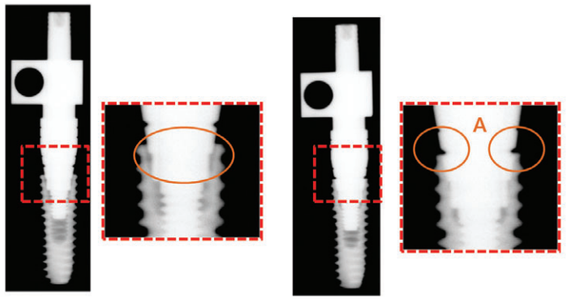


11 15

L		Type \ D	ø 4.0	ø 5.0	ø 6.0	ø 7.0
11		Hex	GSPIS4011	GSPIS5011	GSPIS6011	GSPIS7011
		Non-Hex	GSPIS4011N	GSPIS5011N	GSPIS6011N	GSPIS7011N
Guide Pin (H)	0	-	GSPGPR100			
	5.0	-	GSPGPR150*			
15		Hex	GSPIS4015	GSPIS5015	GSPIS6015	GSPIS7015
		Non-Hex	GSPIS4015N	GSPIS5015N	GSPIS6015N	GSPIS7015N
Guide Pin (H)	0	-	GSPGPR100L			
	5.0	-	GSPGPR150L*			

- Pick-up type for taking an impression using a customized tray
- Impression coping designed with Hole-in-one ; no need for resin fixation
- Asymmetrical structure minimizing contact interference ( )
- Long and short types enhance convenience.
- Packing unit : Impression Coping Body + Guide Pin

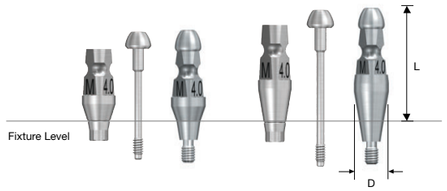
※ The connection of the fixture transfer impression coping can also be verified by aligning the notch (A) in the connecting part of the coping body with the upper part of the fixture or removing the gap at the 11° taper area.



Bad Good

Fixture Transfer Impression Coping

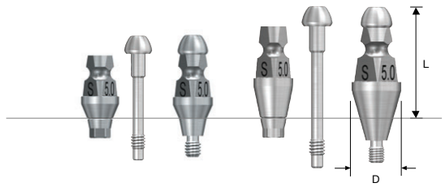
Mini



Hex Non-Hex Hex Non-Hex

11 14

Regular



Hex Non-Hex Hex Non-Hex

11 14

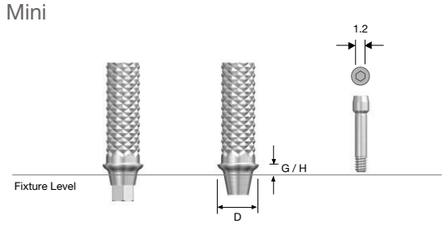
L	Type \ D	ø 4.0
11	Hex	GSTIM4011
	Non-Hex	GSTIM4011N
14	Hex	GSTIM4014
	Non-Hex	GSTIM4014N

L	Type \ D	ø 4.0	ø 5.0	ø 6.0
11	Hex	GSTIS4011	GSTIS5011	GSTIS6011
	Non-Hex	GSTIS4011N	GSTIS5011N	GSTIS6011N
14	Hex	GSTIS4014	GSTIS5014	GSTIS6014
	Non-Hex	GSTIS4014N	GSTIS5014N	GSTIS6014N

- Transfer type for taking an impression using a ready-made tray
- Triangular arc (▽) design improves markability following impression
- Long and short types enhance convenience
- The hex type is designed as a two-piece, and the non-hex type, as a one-piece
- Packing unit : Impression Coping Body + Guide Pin (Hex)
  Impression Coping (Non-Hex)

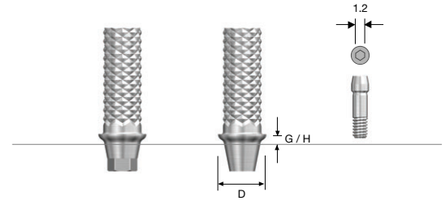
Temporary Abutment

Mini



Hex Non-Hex

Regular



Hex Non-Hex

G/H	Type \ D	ø 4.0
1.0	Hex	GSTTA4010T
	Non-Hex	GSTTA4010TN
3.0	Hex	GSTTA4030T
	Non-Hex	GSTTA4030TN
Ti Screw		GSABSMT

G/H	Type \ D	ø 4.5
1.0	Hex	GSTTA4510T
	Non-Hex	GSTTA4510TN
3.0	Hex	GSTTA4530T
	Non-Hex	GSTTA4530TN
Ti Screw		GSABSST

- Use to make temporary prosthesis (material : Ti Gr-3)
- Easy to customize ; designed to minimize indication constraints
- Use a 1.2 hex driver
- Packing unit : Abutment + Ti screw
- Tightening torque : 20 Ncm (mini, regular)

Order code - Abutment + Ti screw : Product code + TH (ex : GSTTA4510TH)

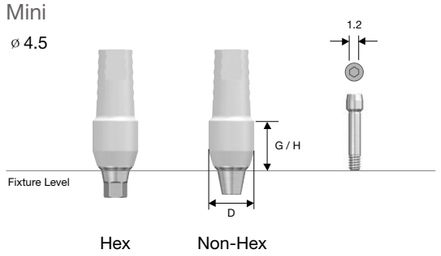
TS SYSTEM

Quick Temporary Abutment

- Cement/Screw Retained Restoration

Mini

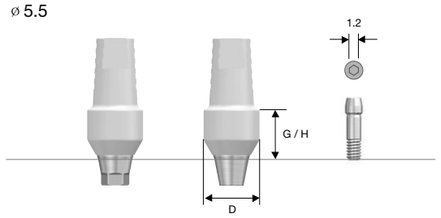
ø 4.5



Hex Non-Hex

Regular

ø 5.5



Hex Non-Hex

G/H	Type \ D	ø 4.5	ø 5.5
5.0	Hex	TSQTA4550	TSQTA5550
	Non-Hex	TSQTA4550N	TSQTA5550N

- Packing unit : Quick temporary abutment + Ti Screw

- Used to fabricate temporary prosthesis for immediate loading
- Peek material enables easy modification/removal of configuration
- Excellent durability provided by the titanium interface
- Can be used in the mouth for up to 180 days
- Tightening torque : 20 Ncm (Mini/Regular)

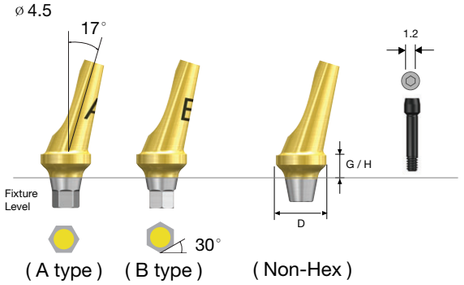
Order code - Abutment + Ti Screw : Product Code + TH (예 : TSQTA5550TH)

Angled Abutment

Cement Retained Restoration

Mini

ø 4.5

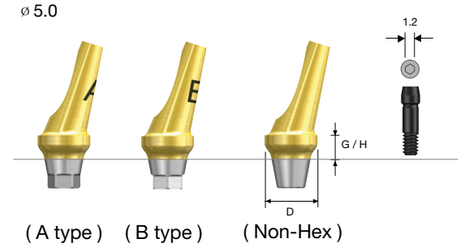


(A type) (B type) (Non-Hex)

G/H	Type \ D	ø 4.5
2.0	Hex(A Type)	GSAA4520MA
	Hex(B Type)	GSAA4520MB
	Non-Hex	GSAA4520MN
4.0	Hex(A Type)	GSAA4540MA
	Hex(B Type)	GSAA4540MB
	Non-Hex	GSAA4540MN
EbonyGold Screw		GSABSM

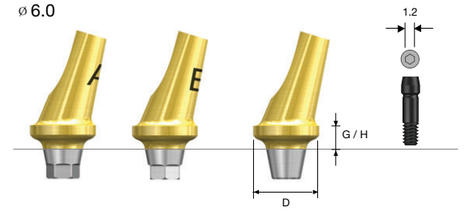
Regular

ø 5.0



(A type) (B type) (Non-Hex)

ø 6.0



(A type) (B type) (Non-Hex)

G/H	Type \ D	ø 5.0	ø 6.0
2.0	Hex(A Type)	GSAA5020A	GSAA6020A
	Hex(B Type)	GSAA5020B	GSAA6020B
	Non-Hex	GSAA5020N	GSAA6020N
4.0	Hex(A Type)	GSAA5040A	GSAA6040A
	Hex(B Type)	GSAA5040B	GSAA6040B
	Non-Hex	GSAA5040N	GSAA6040N
EbonyGold Screw		GSABSS	

- Used for the path adjustment of prosthesis in case of 17° axial angle
- 11° taper connection for excellent safety
- Gold color for aesthetic effect
- Functions as a double hex type (A and B hex types)
- The use of an abutment selector enables the selection of precise hex-type abutments
- 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 : GSAA5020AWH)

Angled Abutment Selector

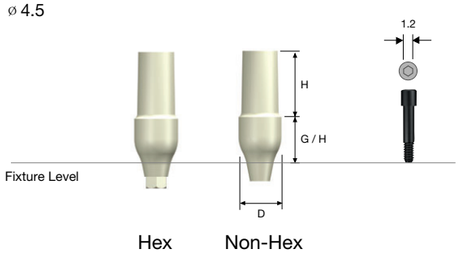
G / H	Type \ D	Mini ø 4.5	Regular ø 5.0	Regular ø 6.0
2.0	Hex(A Type)	GSAAS4520MA	GSAAS5020A	GSAAS6020A
	Hex(B Type)	GSAAS4520MB	GSAAS5020B	GSAAS6020B
4.0	Hex(A Type)	GSAAS4540MA	GSAAS5040A	GSAAS6040A
	Hex(B Type)	GSAAS4540MB	GSAAS5040B	GSAAS6040B

- Use for the selection of specifications such as A- or B-type angled abutments, diameter, and G/H in the oral cavity or on a working model

ZioCera Abutment
Cement or Screw Retained Restoration

Mini

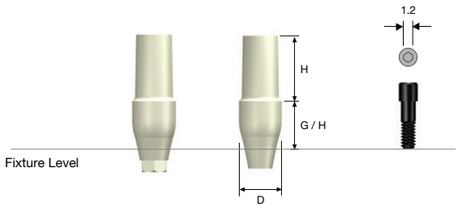
ø 4.5



D		ø 4.5	
H	Type G/H	Hex	Non-Hex
7.0	3.5	GSZAM4535	GSZAM4535N
	5.0	GSZAM4550	GSZAM4550N
EbonyGold Screw		GSASM	

Regular

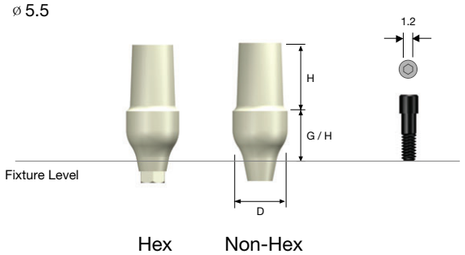
ø 4.5



D		ø 4.5	
H	Type G/H	Hex	Non-Hex
7.0	3.5	GSZAS4535	GSZAS4535N
	5.0	GSZAS4550	GSZAS4550N
EbonyGold Screw		GSASR	

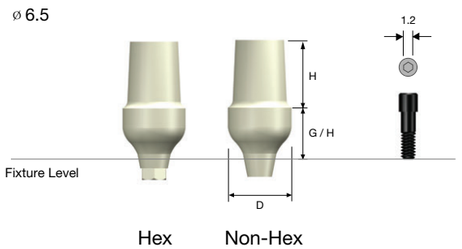
D		ø 5.5	
H	Type G/H	Hex	Non-Hex
7.0	3.5	GSZAS5535	GSZAS5535N
	5.0	GSZAS5550	GSZAS5550N
EbonyGold Screw		GSASR	

ø 5.5



D		ø 6.5	
H	Type G/H	Hex	Non-Hex
7.0	3.5	GSZAS6535	GSZAS6535N
	5.0	GSZAS6550	GSZAS6550N
EbonyGold Screw		GSASR	

ø 6.5



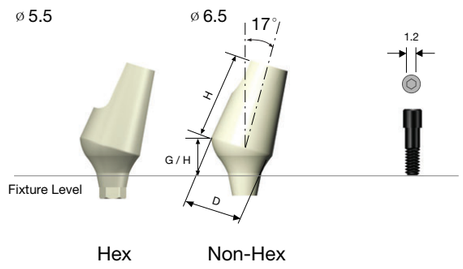
- Use for esthetic implant restorations
- Ivory Color for esthetic shade
- Applicable as a screw retained by direct build up
- Use a 1.2 Hex driver
- Packing Unit: Abutment + EbonyGold Screw
- Tightening torque:20Ncm(mini), 30Ncm(regular)

Order code - Abutment + EbonyGold screw : Product Code + WH
(ex : GSZAS5535NWH)

ZioCera Angled abutment
Cement or Screw Retained Restoration

Regular

ø 5.5 ø 6.5



D		ø 5.5	
H	Type G/H	Hex	Non-Hex
9.0	3.0	GS17ZAS5530	GS17ZAS5530N
	4.0	-	-
EbonyGold Screw		GSASR	

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

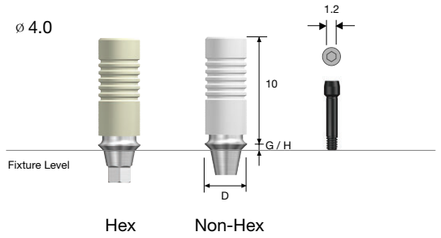
- Use for esthetic implant restorations which needed path modification
- Ivory Color for esthetic shade
- Applicable as a screw retained by direct build up
- Use a 1.2 Hex driver
- Packing Unit: Abutment + EbonyGold Screw
- Tightening torque:20Ncm(mini), 30Ncm(regular)

Order code - Abutment + EbonyGold screw : Product Code + WH (ex : GS17ZAS5530NWH)

TS SYSTEM

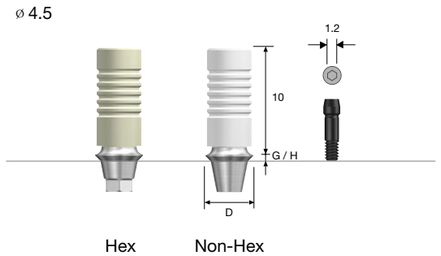
GoldCast Abutment
Screw or Cement Retained Restoration

Mini



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

Regular



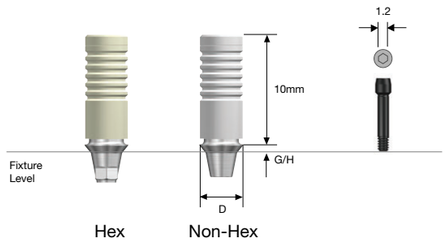
G/H	Type \ D	ø 4.5
1.0	Hex	GSGA4510S
	Non-Hex	GSGA4510B
3.0	Hex	GSGA4530S
	Non-Hex	GSGA4530B
EbonyGold Screw		GSABSS

- 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 : GSGA4510SWH)

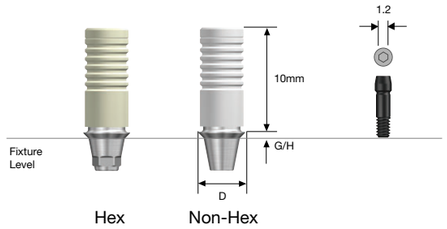
NP-CAST Abutment
Screw or Cement Retained Restoration

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

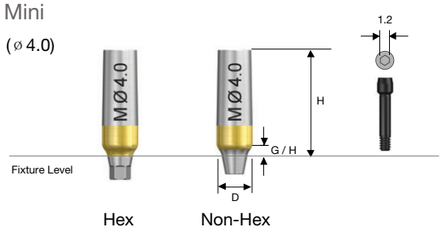
- Packing unit : Abutment + EbonyGold screw

- 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)

FreeForm ST Abutment
Cement Retained Restoration

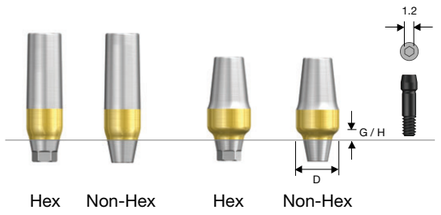
Mini
(ø 4.0)



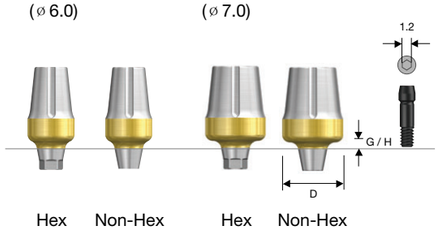
G/H	H	Type \ D	ø 4.0
1.5	12	Hex	GSFAM4015
		Non-Hex	GSFAM4015N
3.0		Hex	GSFAM4030
		Non-Hex	GSFAM4030N
EbonyGold Screw			GSABSM

Regular

(ø 4.0) (ø 5.0)



(ø 6.0) (ø 7.0)



G/H	Type \ D	ø 4.0	ø 5.0	ø 6.0	ø 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			

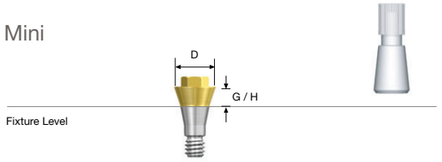
- Use for the path adjustment of abutments or customization of prosthetic margin
- 11˚ taper connection for excellent safety
- Gingival gold color for aesthetic effect
- Use a 1.2 hex driver
- Packing unit : Abutment + EbonyGold screw
- Tightening torque : 20 Ncm (mini), 30 Ncm (regular)

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

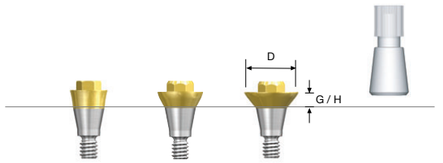
Convertible Abutment Components

Convertible Abutment
Screw & Cement Retained Restoration

Mini



Regular



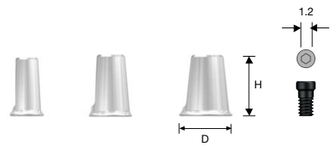
G/H \ D	ø 4.0
1.0	GSCA4010
2.0	GSCA4020
3.0	GSCA4030
4.0	GSCA4040

G/H \ D	ø 4.0	ø 5.0	ø 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
- ø 4.0 : Use an O-ring abutment driver
  ø 4.8, ø 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

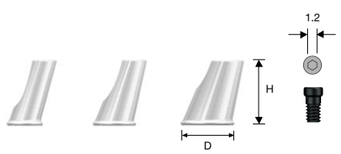


H \ D	Mini ø 4.0	Regular ø 4.0	Regular ø 5.0	Regular ø 6.0
7.0	GSCC4070T(Hex)		GSCC5070T (Octa)	GSCC6070T (Octa)
	GSCC4070TN(Non-Hex)			
EbonyGold Screw	GSFSM		GSFSR	

- 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



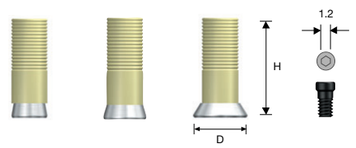
H \ D	Mini ø 4.0	Regular ø 4.0	Regular ø 5.0	Regular ø 6.0
8.0	GSAC4080T(Hex)		GSAC5080T (Octa)	GSAC6080T (Octa)
	GSAC4080TN(Non-Hex)			
EbonyGold Screw	GSFSM		GSFSR	

- 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)

TS SYSTEM

Convertible GoldCast Cylinder

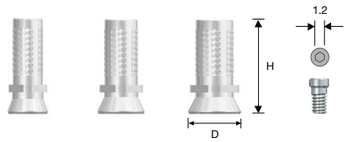


		Mini	Regular		
H	D	ø 4.0	ø 4.0	ø 5.0	ø 6.0
12		GSGC400(Hex)		GSGC500 (Octa)	GSGC600 (Octa)
		GSGC400N(Non-Hex)			
EbonyGold Screw		GSFSM		GSFSR	

- Use for making screw-retained prosthesis using convertible abutments
- After customization, be sure to use only dental gold alloy for casting to make the prosthesis
- Melting point range of cylinder (Au, Pt, Pd Alloy) : 1400 - 1450˚C (use of non-precious metal alloy for casting prohibited)
- Use a 1.2 hex driver
- Packing unit : Cylinder + EbonyGold screw
- Tightening torque : 20 Ncm

Order code - Cylinder + EbonyGold screw : Product Code + WH
(ex: GSGC500WH)

Convertible Temporary Cylinder

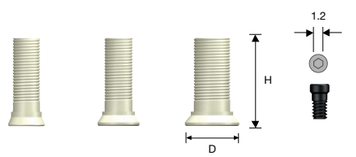


		Mini	Regular		
H	D	ø 4.0	ø 4.0	ø 5.0	ø 6.0
10		GSCTC400T(Hex)		GSCTC500T (Octa)	GSCTC600T (Octa)
		GSCTC400TN(Non-Hex)			
Ti Screw		GSFSMT		GSFSRT	

- Use to make temporary prosthesis (material: Ti Gr-3)
- Easy to customize ; designed to minimize indication constraints
- Use a 1.2 hex driver
- Packing unit : Cylinder + EbonyGold screw
- Tightening torque : 20 Ncm

Order code - Cylinder + Ti screw : Product Code + TH (ex: GSCTC500TTH)

Convertible Plastic Cylinder



		Mini	Regular		
H	D	ø 4.0	ø 4.0	ø 5.0	ø 6.0
12		GSCPL400(Hex)		GSCPL500 (Octa)	GSCPL600 (Octa)
		GSCPL400N(Non-Hex)			
EbonyGold Screw		GSFSM		GSFSR	

- Use for making screw-retained prosthesis using convertible abutments
- After customization, casting should be performed with dental alloy (gold, non-precious metal) to make the prosthesis
- The precision of the connection part is lower compared to gold cylinders
- Use a 1.2 hex driver
- Packing unit : Cylinder + EbonyGold screw
- Tightening torque : 20 Ncm

Order code - Cylinder + EbonyGold screw : Product Code + WH
(ex: GSCPL500WH)

Convertible Pick-up Impression Coping

		Mini	Regular		
D		ø 4.0	ø 4.0	ø 5.0	ø 6.0
Code		GSPIC400(Hex)		GSPIC500 (Octa)	GSPIC600 (Octa)
Guide Pin (H)	0	GSCGP400S		GSCGP500S	
	5	GSCGP400L*		GSCGP500L	

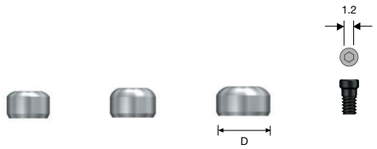
- Pick-up type for taking an impression using a customized tray
- Impression coping designed with Hole-in-one ; no need for resin fixation
- Asymmetrical structure minimizing contact interference (▱)
- Packing unit : Impression coping body + Guide Pin

Convertible Transfer Impression Coping

	Mini	Regular		
D	ø 4.0	ø 4.0	ø 5.0	ø 6.0
Code	GSTIC400(Hex)		GSTIC500 (Octa)	GSTIC600 (Octa)

- Transfer type for taking an impression using a ready-made tray
- Triangular arc (▽) design improves markability following impression
- Packing unit : Impression Coping body + Guide Pin

Convertible Protect Cap



	Mini	Regular		
D	ø 4.0	ø 4.0	ø 5.0	ø 6.0
Code	GSCHC400(Hex)		GSCHC500 (Non-Octa)	GSCHC600 (Non-Octa)
EbonyGold Screw	GSFSM		GSFSR	

- Use for the protection of Convertible abutments in the oral cavity and to minimize the patient's discomfort
- Use a 1.2 hex driver
- Packing unit : Protect Cap + EbonyGold screw
- Tightening torque : 20Ncm

Order code

- Protect Cap + EbonyGold screw : Product Code + WH (ex: GSCHC500WH)

Convertible Lab Analog

	Mini	Regular		
D	ø 4.0	ø 4.0	ø 5.0	ø 6.0
Code	GSCLA400		GSCLA500	GSCLA600

- Make aesthetic oral abutments on the working model
- Packing unit : Lab analog

Convertible Polishing Protector

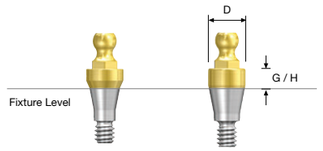
	Mini	Regular	
D	ø 4.0	ø 5.0	ø 6.0
Code	GSCPC400(Hex)	GSCPC500(Octa)	GSCPC600(Octa)

- For polishing upon prosthetic casting, use to avoid damaging the cylinder joint
- Packing unit : Polishing protector

Stud Abutment Components

Stud Abutment

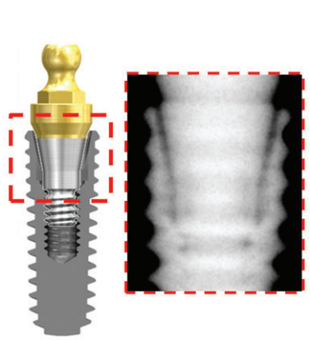
Overdenture Restoration



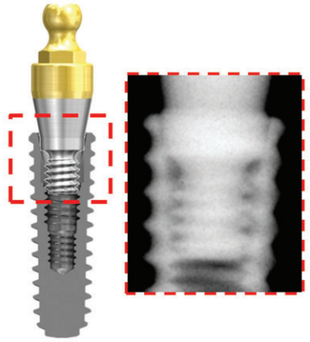
G/H \ D	Mini ø 3.5	Regular ø 3.5
1.0	GSSAM3510	GSSA3510
2.0	GSSAM3520	GSSA3520
3.0	GSSAM3530	GSSA3530
4.0	GSSAM3540	GSSA3540
5.0	GSSAM3550	GSSA3550
6.0	GSSAM3560	GSSA3560

- Packing unit : Only abutment

※ Due to a mix of specifications(Mini/Regular) will occur wrong connection.
Always verify the exactness of the connection by taking an x-ray after the final connection of the abutment.



< Abutment : Mini / Fixture : Regular >



< Abutment : Regular / Fixture : Mini >

O-ring Retainer Cap Set

Code	RCS01

- Packing unit : Retainer cap + O-ring

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 5 piece

O-ring Lab Analog

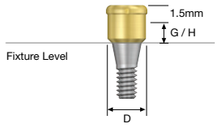
Code	OAL

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

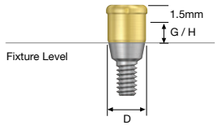
LOCATOR® Components

LOCATOR® Abutment
Overdenture Restoration

Mini



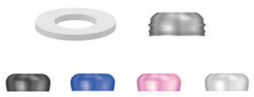
Regular



G/H \ D	Mini	Regular
	ø 3.7	
1.0	HGLCA3510M	HGLCA4010S
2.0	HGLCA3520M	HGLCA4020S
3.0	HGLCA3530M	HGLCA4030S
4.0	HGLCA3540M	HGLCA4040S
5.0	HGLCA3550M	HGLCA4050S

- Packing unit : Locator abutment
- Stable dual retention & optimal holding capabilities against various retention forces (6N, 12N, 22N)
- Excellent durability
- Possible denture restorations even at small vertical dimension
- Accommodate up to 40° divergence between two implants
- Retention males can be easily placed & removed with core tool
- Tightening torque : 30Ncm
- Can be used in GS system & HG system

LOCATOR® Male Processing Kit



Code	LMPS

- Packing Unit : Locator Male Processing Kit (2 Set)
- Consist of
  -Block out Spacer/Denture Cap connected Black Processing Male
  -Replacement Male Blue/Pink/Clear
- Male Change by Locator Core Tool

LOCATOR® Replacement Male

Code	LRM06S

- Packing Unit : Blue Replacement Male (4ea)
- retention Force : about 6N
- 0°~20° divergence (between two implants)

Code	LRM12S

- Packing Unit : Pink Replacement Male (4ea)
- retention Force : about 12N
- 0°~20° divergence (between two implants)

Code	LRM22S

- Packing Unit : clear Replacement Male (4ea)
- retention Force : about 22N
- 0°~20° divergence (between two implants)

LOCATOR® Extended Replacement Male

Code	LEM06S

- Packing Unit : Red Extended Replacement Male (4ea)
- retention Force : about 6N
- 20°~40° divergence (between two implants)

Code	LEM12S

- Packing Unit : Green Extended Replacement Male (4ea)
- retention Force : about 12N
- 20°~40° divergence (between two implants)

LOCATOR® Black Processing Male

Code	LBPS

- Packing Unit : black processing Male (4ea)
- for lab. process

LOCATOR® Block out spacers

Code	LBSS

- Packing Unit : Locator Block out spacers (20ea)
- For Space Sealing between Locator Abutment & Denture Cap

LOCATOR® Impression Coping

Code	LICS

- Packing Unit : Locator Impression Coping (4ea)
- For Abutment level impression

LOCATOR® lab Analog

Code	LAL40S
	LAL50S

- Packing Unit : Locator lab Analog (4ea)

LOCATOR® Core Tool

Code	LCCT

- Packing Unit : Locator Core Tool
- foe handling of locator system

LOCATOR® Torque Driver

Type	Short	Long
Code	TWLDS	TWLDL

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