

OSSTEM[®]
IMPLANT

2020-21
**TS SYSTEM
CATALOG**

Osstem Implant
2020-21 Comprehensive Catalog

Planning/Editing Design Center Brand Design Team
Supervision PM Headquarters, Implant Lab
Production/Distribution PM Headquarters
Date of Publication 02.2020
Publisher OSSTEM IMPLANT Co., Ltd. 3, Magokjungang 12-ro,
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www.osstem.com

2020 Printed in Seoul, Korea

TS SYSTEM CATALOG

"Cutting edge
technology and
superior quality"

Making products that dentists are able to
trust and are satisfied with:
This is our mission at **OSSTEM IMPLANT**



We are forever grateful
to all of our
customers for their
unwavering support to
OSSTEM IMPLANT

Osstem, South Korea's first implant manufacturer, has achieved steady growth thanks to the support and love from its customers. Osstem has put a lot of effort into continuous investment in R&D and quality innovation in order to provide products that customers are looking for and satisfied with. Based on this, it has become the No. 1 implant company in Asia Pacific region and No. 4 in the world. Moreover, it was ranked No. 1 for global fixture sales from 2017 to 2019 for 3 consecutive years and became the global provider of the implants most used by the customers all around the world.

In this 2020-21 product catalog, you can see a variety of products at a glance, including not only the implant products of Osstem's differentiated technology but also the digital dentistry products such as Oneguide the implant surgical guide, scanners, milling machines, CAD/CAM, etc. We have invested numerous efforts and time in the configuration and design of this catalog so that customers do not have any inconvenience of finding and ordering the products they need. The fixtures and abutments are listed to make it easy to understand the diameter, length, and functional behavior, in sequence that customers make a judgement for purchase.

The product type and code are displayed to help with accurate ordering. We have added the product thumbnail pages to view the components at a glance and detailed information pages to describe the functions of each component for enhanced user understanding. For GBR products, shape, size, and capacity of each product are described in detail for easy ordering as well. In addition, the release date and time are indicated for all products so that customers can easily distinguish new products from existing products for purchase. In terms of design, we applied high-quality product images to aid ordering without looking at the actual product, and improved user convenience by applying representative colors to facilitate classification by product category.

We hope that this 2020-21 product catalog will help you effectively find and purchase all the products you need for your dental practice. Osstem Implant will continue to strive to create greater customer value as a partner to help dentists provide better care. Thank you.

CEO of OSSTEM IMPLANT
Tae-Kwan Eom

Handwritten signature of Tae-Kwan Eom.

Worldwide & History



📍 Headquarters
📍 Overseas Subsidiary
📍 Distributor

EMEA

- GERMANY
- RUSSIA
- UKRAINE
- FRANCE
- HUNGARY
- SWITZERLAND
- NORWAY
- FINLAND
- UK
- POLAND
- ROMANIA
- CZECH
- SLOVAKIA
- SERBIA
- PORTUGAL
- SPAIN

- ITALY
- CROATIA
- GREECE
- LATVIA
- ESTONIA
- LEBANON
- TUNISI
- MACEDONIA
- SLOVENIA
- KOSOVO
- BULGARIA
- GEORGIA
- EGYPT
- SOUTH AFRICA
- ALBANIA
- TAJIKISTAN

ASIA / OCEANIA

- KOREA
- JAPAN
- CHINA
- CHINESE TAIPEI
- VIETNAM
- BANGLADESH
- HONG KONG, CHINA
- SAUDI
- MONGOLIA
- MALAYSIA
- SINGAPORE
- INDIA
- PHILIPPINES
- THAILAND
- INDONESIA
- KAZAKHSTAN
- UZBEKISTAN
- AUSTRALIA
- NEW ZEALAND
- TURKEY
- PAKISTAN
- KUWAIT
- U.A.E
- IRAN
- CAMBODIA
- PAPUA NEW GUINEA
- MYANMAR
- SRI LANKA
- OMAN
- JORDAN
- PALESTINE

N/S.AMERICA

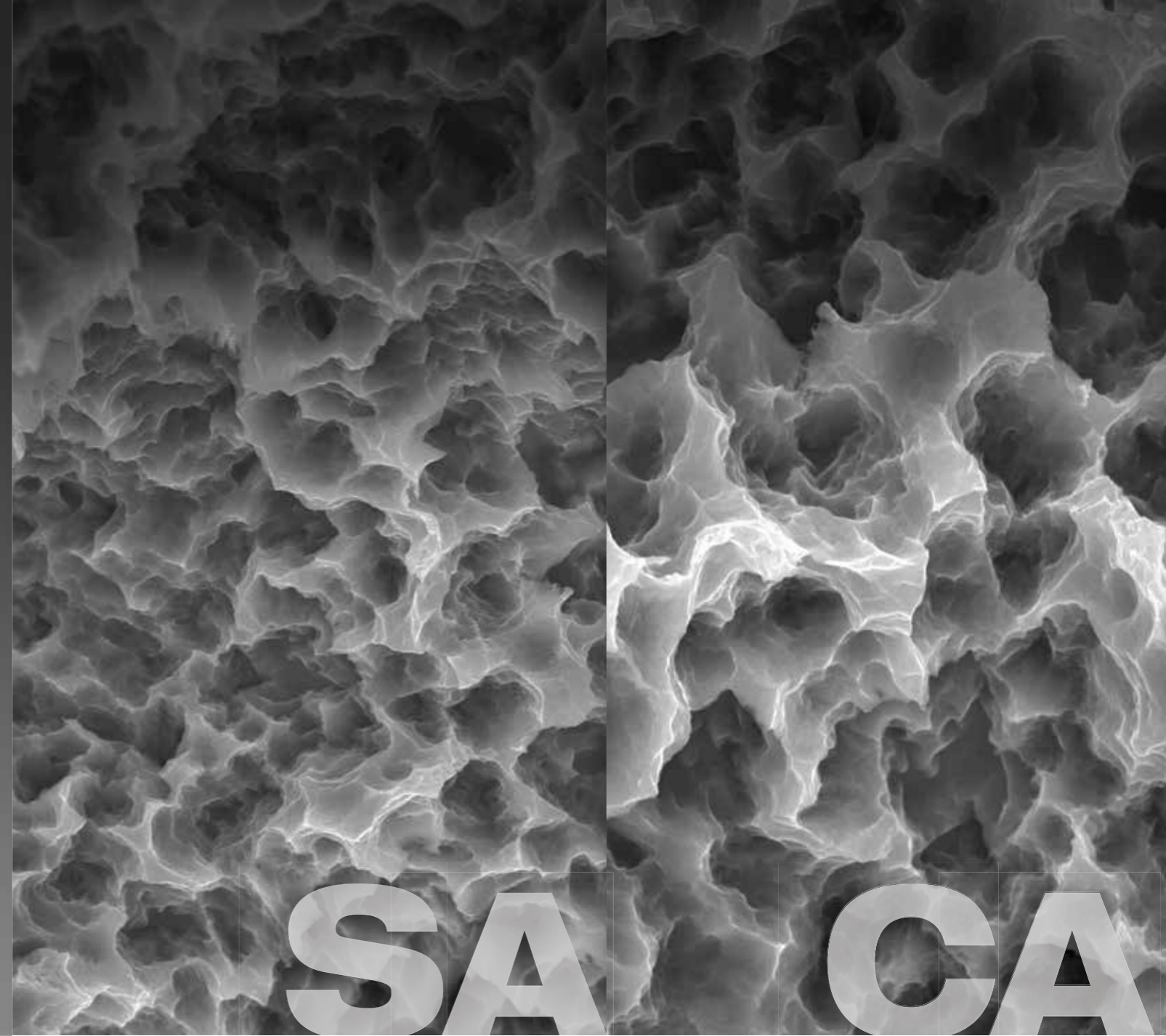
- CANADA
- USA
- MEXICO
- CHILE
- COSTA RICA
- PERU
- BRAZIL

- | | | | | | | | |
|---|--|--|---|--|---|--|--|
| <p>1997</p> <ul style="list-style-type: none"> 01 Established Osstem R&D System 12 Launched "Doobun" (health insurance claiming software) <p>2000</p> <ul style="list-style-type: none"> 06 Developed and launched "Hidaro" (total dental clinic management software) 12 Acquired Sumcom Comprehensive Dental Materials (South Korea's first implant manufacturer) <p>2001</p> <ul style="list-style-type: none"> 01 Obtained CE-0434 certification 03 Established AIC Training Center | <p>2002</p> <ul style="list-style-type: none"> 01 Established Osstem Implant Research Center 08 Obtained US FDA certification <p>2003</p> <ul style="list-style-type: none"> 07 Established the Information System Research Institute <p>2006</p> <ul style="list-style-type: none"> 03 Changed company name to Osstem Implant Co., Ltd. 09 Established a subsidiary in the U.S. (HIOSSSEN), and set up the manufacturing facility 12 Completed the first-phase establishment of overseas subsidiaries (12 countries) | <p>2007</p> <ul style="list-style-type: none"> 02 Listed on KOSDAQ and began trading 11 Won the "10 Million Dollar Export Tower" on Trade Day <p>2008</p> <ul style="list-style-type: none"> 01 Established Osstem Bone Science Research Institute 07 Won the Grand Prize of the 2008 Korea Health Industry Awards by the Ministry of Health, Welfare and Family Affairs <p>2010</p> <ul style="list-style-type: none"> 03 Launched TSIII SA implant 06 Launched TSIII HA implant | <p>2011</p> <ul style="list-style-type: none"> 06 Osstem Implant Research Institute selected as an Advanced Technology Center (ATC) by the Ministry of Trade, Industry and Energy 07 Selected as 2011 World Champ company by KOTRA 12 Selected as Current World-Class Product by the Ministry of Knowledge Economy <p>2012</p> <ul style="list-style-type: none"> 06 Launched TSIII CA implant 07 Established the Medical Equipment Research Institute | <p>2013</p> <ul style="list-style-type: none"> 01 Launched xenograft "A-Oss" 09 Launched "K3 unit chair" <p>2014</p> <ul style="list-style-type: none"> 05 Launched impression material "Hysil" 08 Launched whitening material "BeauTis" <p>2015</p> <ul style="list-style-type: none"> 03 Established Osstem Pharma Co., Ltd. 12 Awarded the "50 Million Dollar Export Tower" on Trade Day | <p>2016</p> <ul style="list-style-type: none"> 01 Established VUSSEN Co., Ltd. 02 Released TSIII BA 03 Acquired Cardiotec Co., Ltd. 04 Launched the dental clinic interior design business 06 Released TSIII SOI 08 Acquired Hubit Co., Ltd. 11 Launched "OneGuide" | <p>2017</p> <ul style="list-style-type: none"> 12 Won the Presidential Award at 2017 Government Commendation for Job Creation 11 Won the '2018 SW Enterprise Quality Award' by Ministry of Science and Technology 12 Won the "100 Million Dollar Export Tower" on Trade Day <p>2018</p> <ul style="list-style-type: none"> 11 Won the "100 Million Dollar Export Tower" on Trade Day | <p>2019</p> <ul style="list-style-type: none"> 08 Opened manufacturing corporation in Yancheng, China 10 Established a subsidiary in Brazil (23 subsidiaries in 26 countries in operation) 12 Awarded the Brand Top, Industrial Service, Presidential Citation, Prime Minister Citation, and KITA Citation on 56th Trade Day <p>2020</p> <ul style="list-style-type: none"> 01 Launched "OneClick" the electronic chart for dental clinics 02 Established "DenAll", the comprehensive dental portal 07 Headquarters relocated to Magok, Seoul 08 No.1 seller of fixture for 3 consecutive years (2017~2019) |
|---|--|--|---|--|---|--|--|

TS Design & Surface Feature



TS



TS packaging color information

Submerged type implant with an internal hex 11° tapered connection structure

- Connection - Mini / Regular
- Excellent initial stability in soft bone with smaller threads in the upper section
- Corkscrew thread & cutting edge
 - Superior self-threading effect for easy placement path adjustment
 - Enhanced initial stability in soft bone and consistent placement torque according to the drill diameter
- Various body shape options available to match the patient's bone quality and clinical condition
 - TSII (straight body) : Easy to adjust placement depth
 - TSIII (1.5° tapered body) : Excellent initial stability needed for immediate loading even in soft bone
 - TSIV (6° tapered body) : Specifically designed for use in maxillary sinus and soft bone, providing excellent initial stability
- Available surface types - SA / CA / BA / SOI

Optimized Surface through Acid Treatment

- Ra 2.0-3.0 μ m surface roughness (Note: The roughness in the upper 0.5mm part is Ra 0.5-0.6 μ m)
- Consistent surface micro-pits of 1-3 μ m
- Surface area increased by 46% compared to RBM treated implants

In-vitro and In-vivo Bone Response

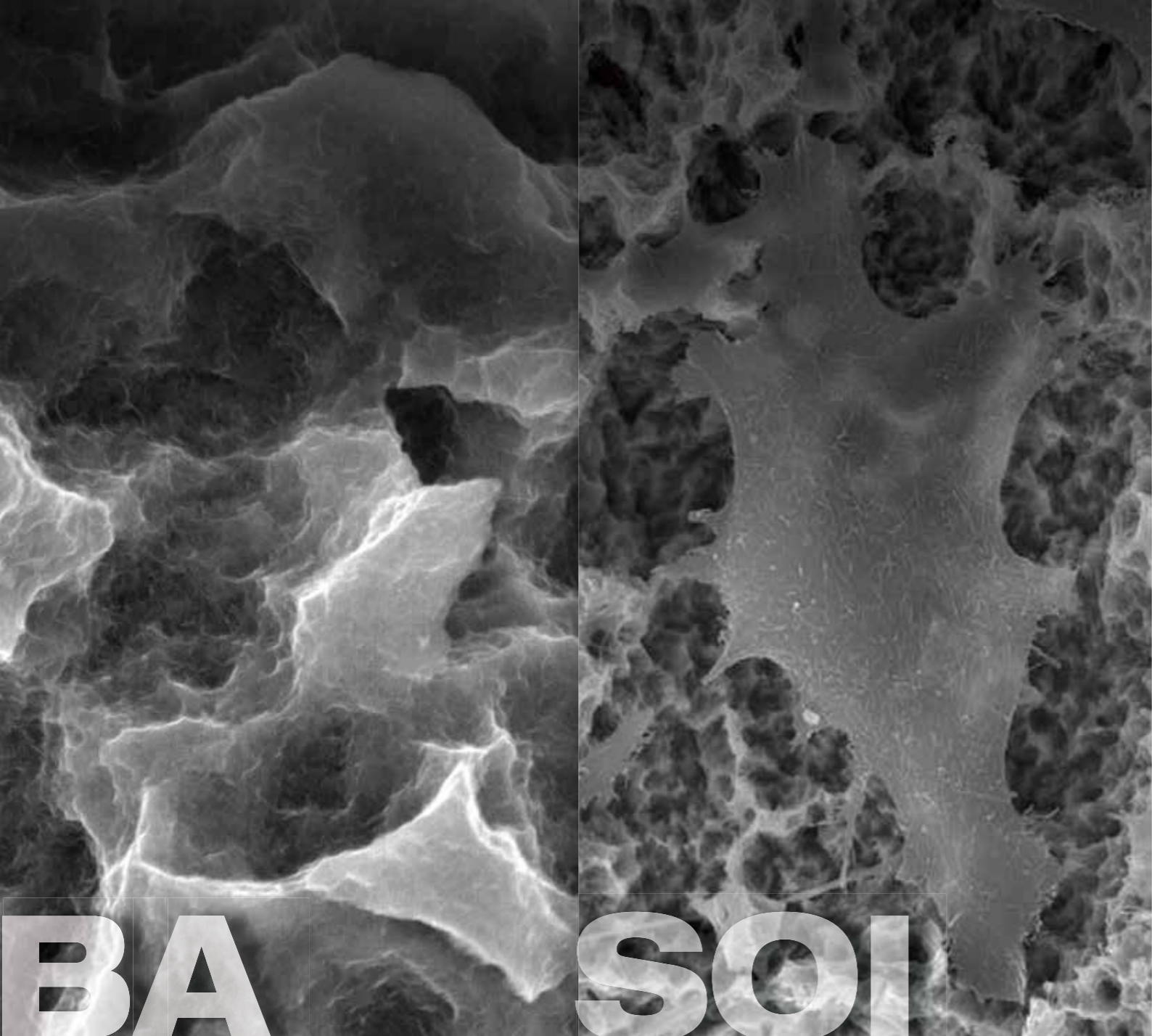
- Osteoblast separation and ossification improved by 20% compared to RBM treated implants
- Initial bone reaction performance in big animal model (mini-pig)
 - Initial stability (RT, 4 weeks) improved by 48% compared to RBM treated implants
 - Ossification (BIC, 4 weeks) improved by 20% compared to RBM treated implants

Super-hydrophilic SA surface immersed in a calcium solution

- Same surface morphology as SA surfaces
- Surface reaction activated by immersing in a calcium solution (CaCl₂)
- Increased new bone formation area with excellent blood wettability
- Bone response improved in early osseointegration stage compared to standard SA surface

In-vitro and In-vivo Bone Response

- Protein and cellular adhesion tripled compared to SA surfaces
- Initial cellular differentiation (7 days) improved by 19% compared to SA surfaces
- Initial stability (RT, 4 weeks) improved by 34% compared to SA surfaces
- Ossification (BIC, 4 weeks) improved by 26% compared to SA surfaces



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Premium low crystalline nano-HA coated SA surface

- 10nm Ultra-thin HA coating
- SA surface (Ra 2.0-3.011 μ m) coated with HA
- Dual functions of titanium and HA
 - HA is naturally resorbed during ossification

In-vitro and In-vivo Bone Response

- Advantages of both SA and HA surfaces
 - SA's ability to maintain an optimal surface
 - HA's ability to form high quality initial bone even in bone of poor quality
- Ossification (BIC) improved by 26% compared to SA surfaces
- Applicable to all types of bone quality

Next-generation surface with hemostatic effect and pH control feature

- Activation of blood clot formation
- Prevention of carbon adsorption in air
- Same surface roughness (Ra 2.0-3.0 μ m) as SA surfaces
- Superior blood wettability with super hydrophilic surface

In-vitro and In-vivo Bone Response

- Protein and cellular adhesion increased by 130 times compared to SA surfaces
- Initial stability (RT, 4 weeks) improved by 57% compared to SA surfaces
- Surface with the shortest duration of treatment

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FIXTURE

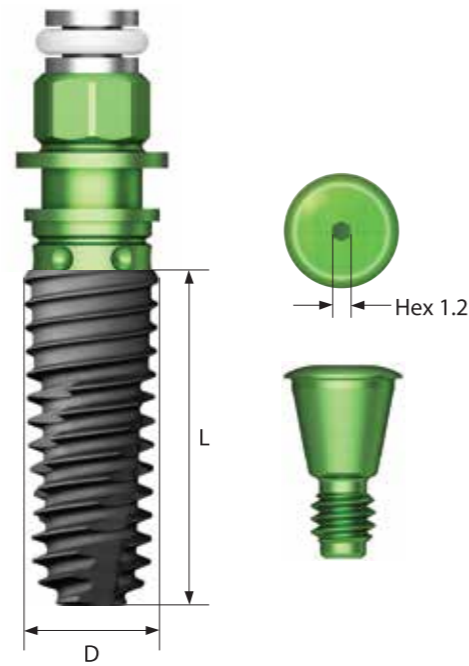
010	TSIII SA Fixture
012	TSIII SOI Fixture
014	TSIV SA Fixture
016	Simple Mount
016	Cover Screw
017	Healing Abutment
018	Custom Healing Abutment

COMPONENTS

020	PROSTHETIC FLOW DIAGRAM 1
021	Rigid Abutment
026	Transfer Abutment
036	PROSTHETIC FLOW DIAGRAM 2
037	Angled Abutment
039	GoldCast / NP-Cast Abutment
042	PROSTHETIC FLOW DIAGRAM 3
043	OneFit / OneFit Zr Abutment
045	Pre-Milled Abutment
046	Link Abutment (for Public / Cerec)
050	Temporary Abutment (Quick)
054	PROSTHETIC FLOW DIAGRAM 4
055	Multi (Angled) Abutment
060	Esthetic-low Abutment
062	PROSTHETIC FLOW DIAGRAM 5
063	Convertible Abutment
070	PROSTHETIC FLOW DIAGRAM 6
071	Stud / Locator [®] Abutment
077	Port Angled Abutment
080	OneSeal / TS Abutment Selector
082	Scan Healing Abutment

TSIII SA Fixture

- Submerged type implant with an internal hex 11° tapered connection structure
 - Optimal thread design for realization of optimal SA surface
 - Tapered body design for excellent initial stability
 - Excellent initial stability in soft bone with smaller threads in the upper section
 - Superior self-threading effect with corkscrew thread
 - Excellent initial stability needed for immediate loading even in soft bone
- Narrow**
- Used in tight spaces (narrow ridge)
 - Easy angle compensation in anterior region
 - Compatible with existing mini upper parts (not compatible with cover screw, mount, or lab analog)
- Ultra-wide**
- Ideal for placement in a fresh extraction socket in the posterior area or for replacing a failed implant
 - Optimized apex design for excellent initial stability in a fresh extraction socket or in 3mm from the bottom
 - Recommended placement torque : $\leq 40\text{Ncm}$
- ※ Fixtures with a diameter of 4.5mm or greater are recommended for the posterior region



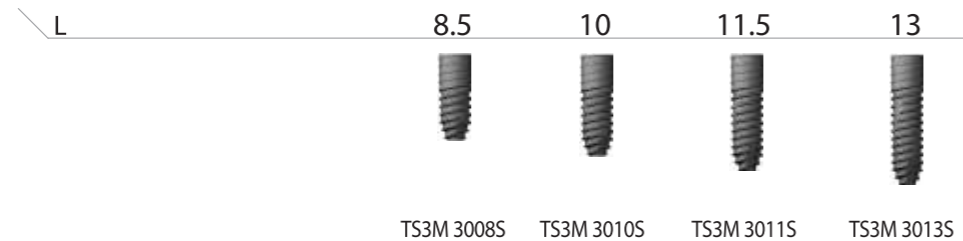
NoMount Fixture order code

: fixture product code (ex : TS3S4010S)

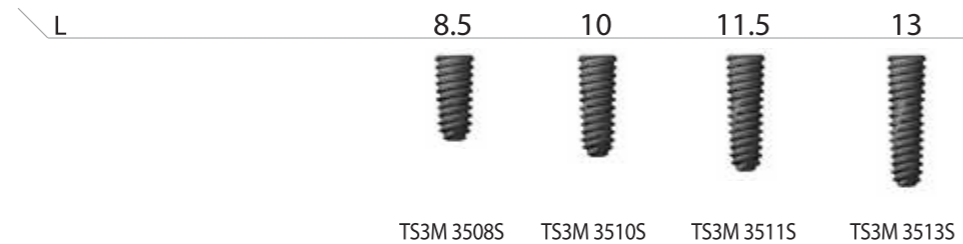
Pre-Mounted Fixture (fixture + mount + cover screw) order code

: B + fixture product code (ex : B TS3S4010S)

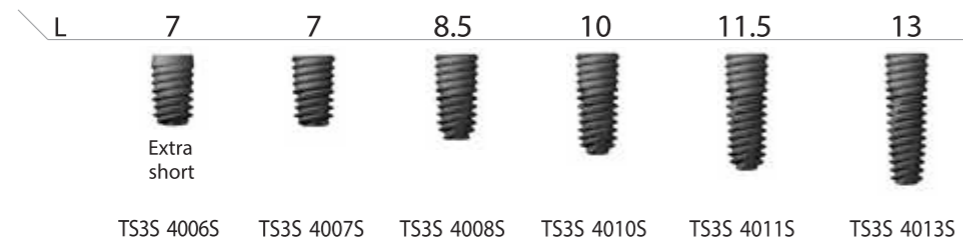
D Ø 3.0
Hex 2.1
Narrow



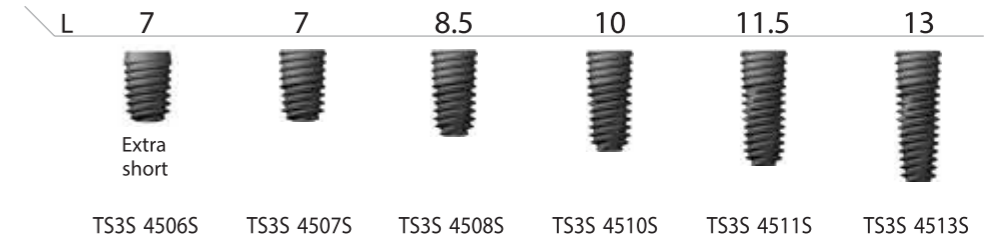
D Ø 3.5
Hex 2.1



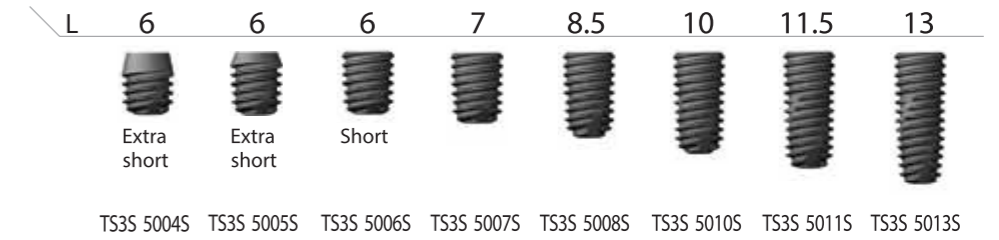
D Ø 4.0
Hex 2.5



D Ø 4.5
Hex 2.5



D Ø 5.0
Hex 2.5

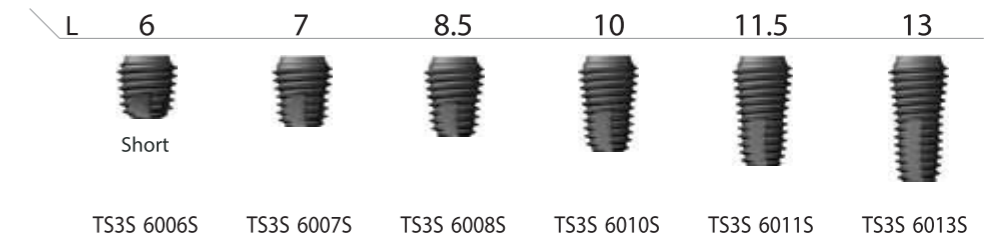


D Ø 5.5
Hex 2.5



Ultra-Wide

D Ø 6.0
Hex 2.5



D Ø 7.0
Hex 2.5



Nominal diameter may differ from actual diameter.

Note Short implant should be used after a sufficient healing period. It is used by splinting with other implants for prosthesis.

TSIII SOI Fixture



- Submerged type implant with an internal hex 11° tapered connection structure
- Super hydrophilic surface with superior blood wettability, coated with K material
- Super hydrophilic surface inducing fast blood clot formation
- Tapered body design for excellent initial stability
- Excellent initial stability in soft bone with smaller threads in the upper section
- Superior self-threading effect with corkscrew thread
- Excellent initial stability needed for immediate loading even in soft bone
- Recommended placement torque : $\leq 40\text{Ncm}$
- ※ Fixtures with a diameter of 4.5mm or greater are recommended for the posterior region.

Narrow

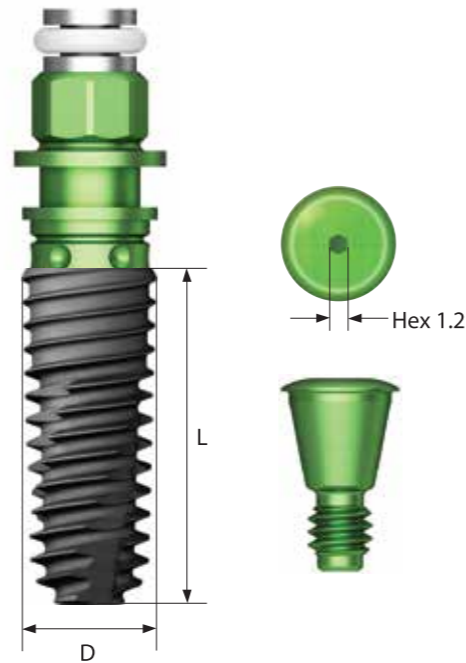
- Used in tight spaces (narrow ridge)
- Easy angle compensation in anterior region
- Compatible with existing mini upper parts (not compatible with cover screw, mount, or lab analog)

NoMount Fixture order code

: fixture product code (ex : TS3S4010A)

Pre-Mounted Fixture (fixture + mount + cover screw) order code

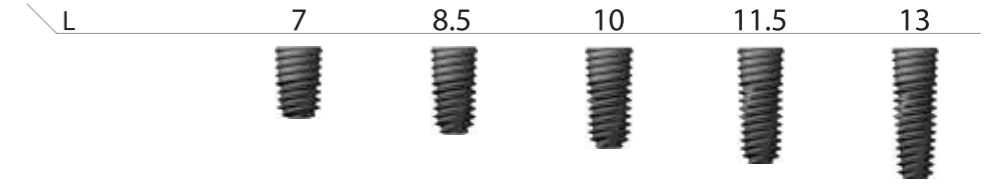
: B + fixture product code (ex : B TS3S4010A)



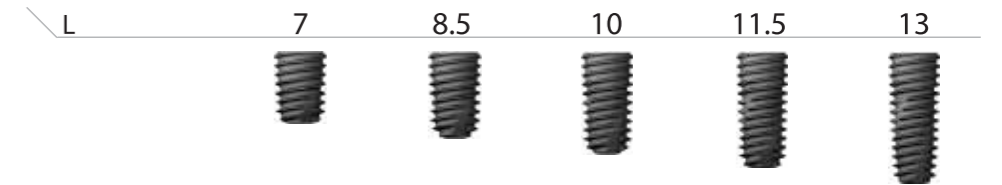
D \varnothing 4.5
Hex 2.5



D \varnothing 5.0
Hex 2.5



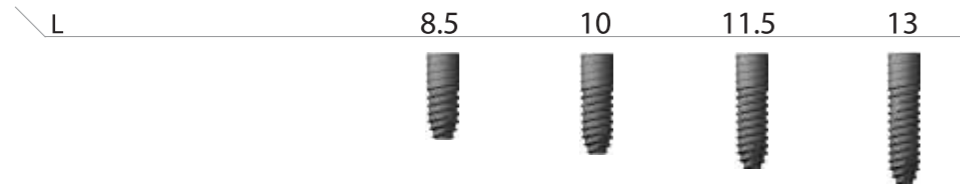
TS3S 4507A TS3S 4508A TS3S 4510A TS3S 4511A TS3S 4513A



TS3S 5007A TS3S 5008A TS3S 5010A TS3S 5011A TS3S 5013A

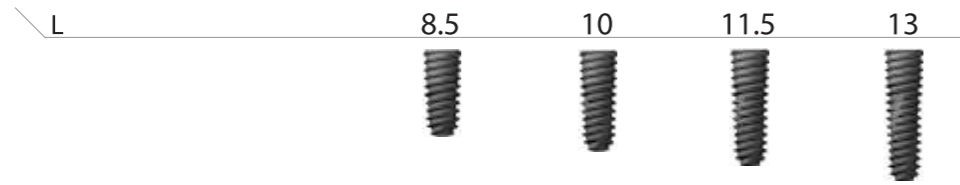
01.2019

D \varnothing 3.0
Hex 2.1
Narrow



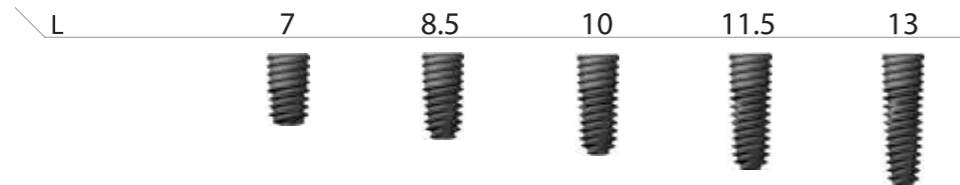
TS3M 3008A TS3M 3010A TS3M 3011A TS3M 3013A

D \varnothing 3.5
Hex 2.1



TS3M 3508A TS3M 3510A TS3M 3511A TS3M 3513A

D \varnothing 4.0
Hex 2.5



TS3S 4007A TS3S 4008A TS3S 4010A TS3S 4011A TS3S 4013A

Nominal diameter may differ from actual diameter.

TSIV SA Fixture

- Submerged type implant with an internal hex 11° tapered connection structure
- Optimal thread design for realization of optimal SA surface
- Dedicated fixture for use in maxillary sinus and soft bone
- Excellent initial stability in soft bone with smaller threads in the upper section
- Superior self-threading effect with corkscrew thread
- Sharp apex design allowing placement even after D4 bone Ø2.0/3.0mm drilling

Ultra-wide

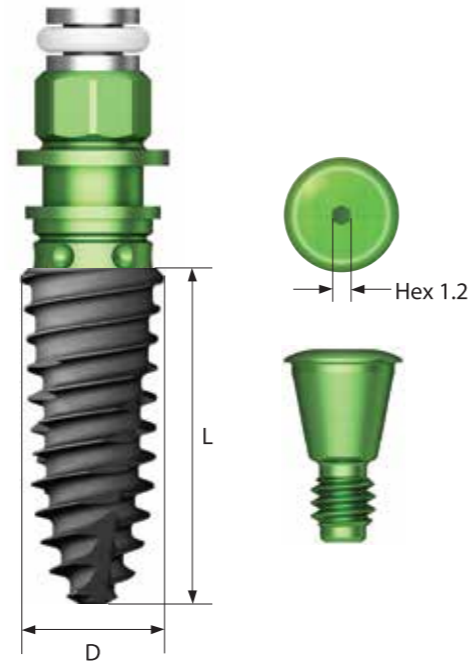
- Ideal for placement in a fresh extraction socket in the posterior area or for replacing a failed implant
- Optimized apex design for excellent initial stability in a fresh extraction socket or in 3mm from the bottom
- Recommended placement torque : ≤40Ncm
- ※ Fixtures with a diameter of 4.5mm or greater are recommended for the posterior region
- ※ Reducing the speed to 15rpm or lower recommended for placement as the placement speed is too fast for TSIV fixtures due to large thread pitch

NoMount Fixture order code

: fixture product code (ex : TS4S4010S)

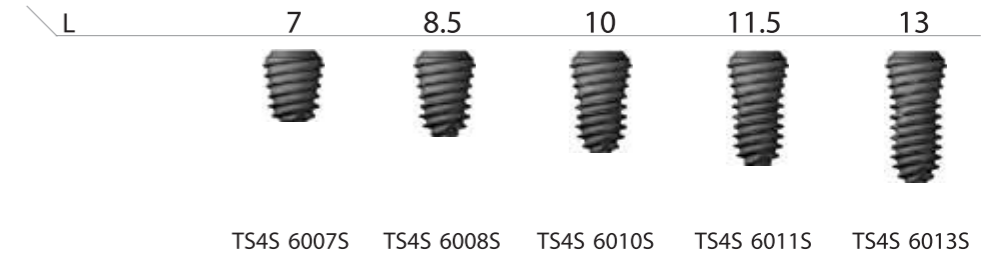
Pre-Mounted Fixture (fixture + mount + cover screw) order code

: B + fixture product code (ex : B TS4S4010S)

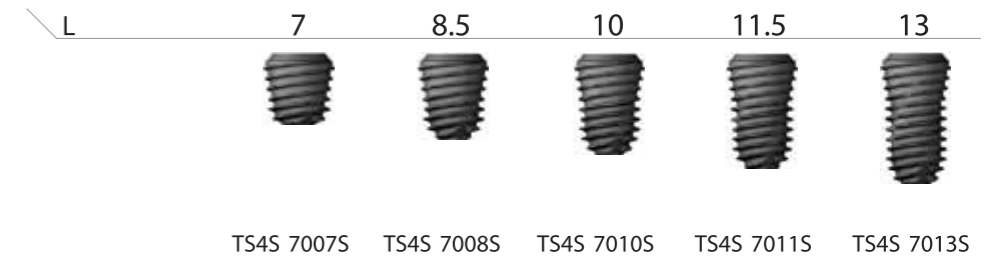


Ultra-wide

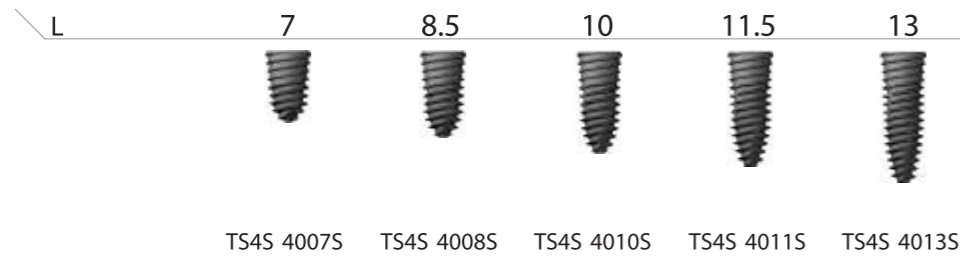
D Ø 6.0
Hex 2.5



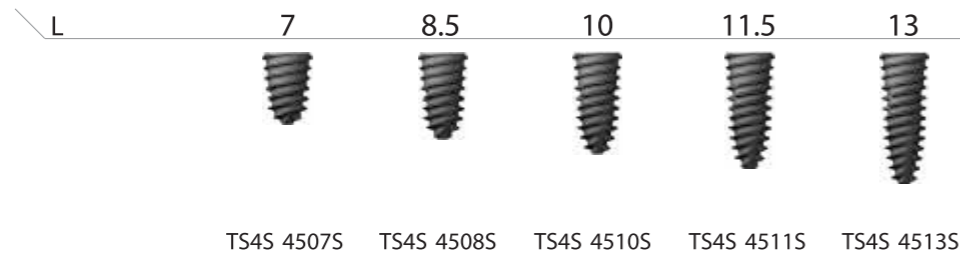
D Ø 7.0
Hex 2.5



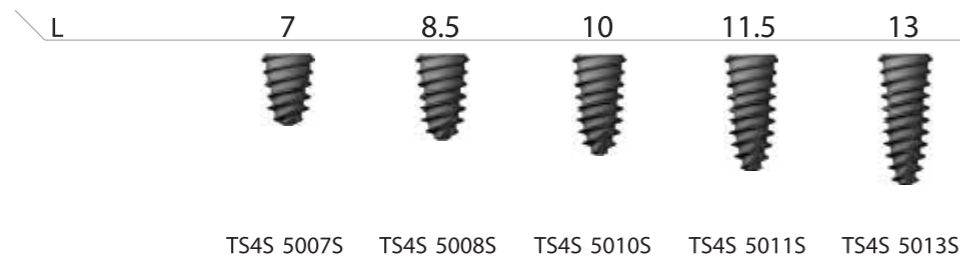
D Ø 4.0 Pitch 0.8
Hex 2.5



D Ø 4.5 Pitch 1.0
Hex 2.5



D Ø 5.0 Pitch 1.2
Hex 2.5



Nominal diameter may differ from actual diameter.

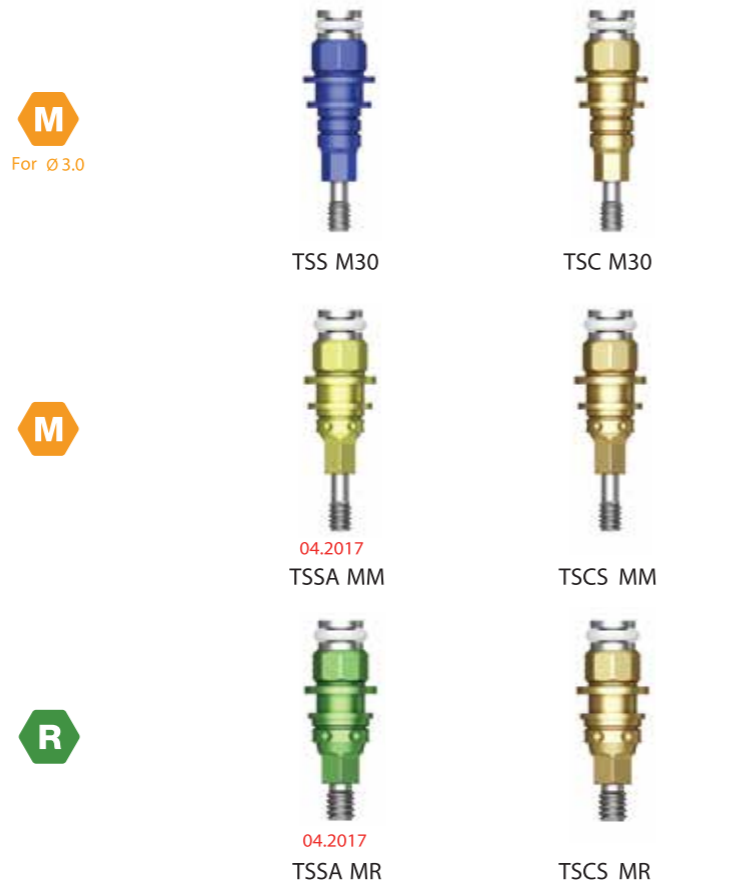
Mount & Screw

Simple Mount

- Hex driver : 1.2
- Recommended tightening torque : 8~10Ncm
- Packing unit : Mount + Mount screw
- ※ Disposable, Do not reuse
- C = Connection

- M** Mini
- R** Regular

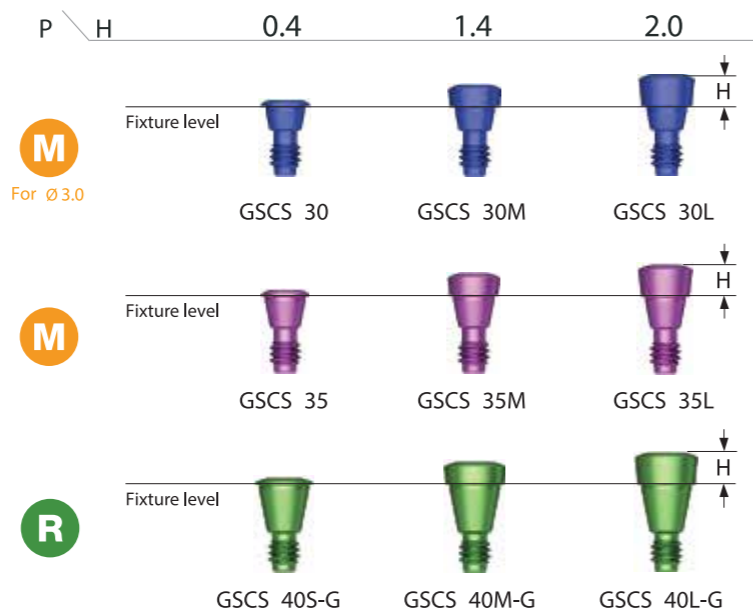
C For CA Fixture



Cover Screw

- Height (H) selected according to the fixture placement depth
- Dedicated cover screw used for Ø3.5 fixture
- Hand tightened with 1.2 hex driver
- P = Platform

- M** Mini
- R** Regular



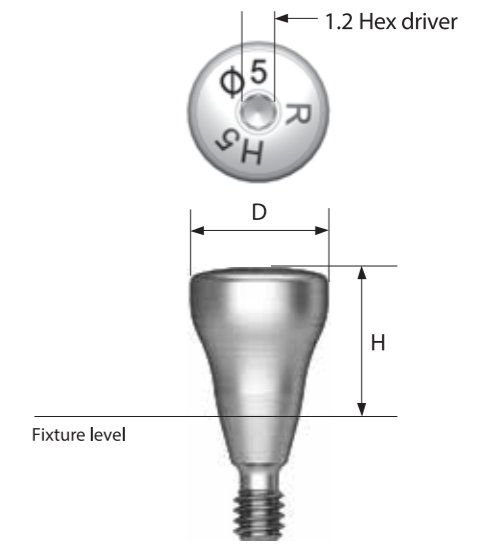
Healing Abutment

- Mini (yellow) type used for fixtures of Ø3.5 or smaller
- Hand tightened with 1.2 hex driver

- M** Mini
- R** Regular

Matching table

Healing abutment	H	3.0	4.0	5.0	7.0
Abutment	G/H	1.0	2.0 or 3.0	3.0 or 4.0	5.0 and above
Impression coping	Type	Short	Short	Long	Long



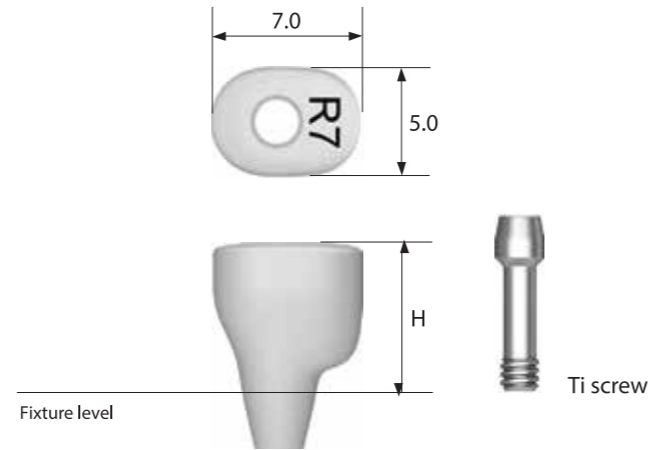
D \ H	3.0	4.0	5.0	6.0	7.0	9.0
Ø4.0	TSHA 403M	TSHA 404M	TSHA 405M	TSHA 406M	TSHA 407M	TSHA 409M
Ø4.5	TSHA 453M	TSHA 454M	TSHA 455M	TSHA 456M	TSHA 457M	TSHA 459M
D \ H	3.0	4.0	5.0	6.0	7.0	9.0
Ø4.0	TSHA 403R	TSHA 404R	TSHA 405R	TSHA 406R	TSHA 407R	TSHA 409R
Ø4.5	TSHA 453R	TSHA 454R	TSHA 455R	TSHA 456R	TSHA 457R	TSHA 459R
Ø5.0	TSHA 503R	TSHA 504R	TSHA 505R	TSHA 506R	TSHA 507R	TSHA 509R
Ø6.0	TSHA 603R	TSHA 604R	TSHA 605R	TSHA 606R	TSHA 607R	TSHA 609R
Ø7.0	TSHA 703R	TSHA 704R	TSHA 705R	TSHA 706R	TSHA 707R	TSHA 709R
Ø8.0	-	-	TSHA 805R	-	-	-

Custom Healing Abutment

- Used when healing abutment in the shape of a tooth is required
- Used by removing or with resin attached
- Material : Medical PEEK
- Dedicated titanium screw used
- Hand tightened with 1.2 hex driver
- Packing unit : Abutment + Ti screw
- P = Platform

Abutment + Ti screw order code
 : Product code + TH (ex : TSCHAPR7 TH)

- M** Mini
- R** Regular

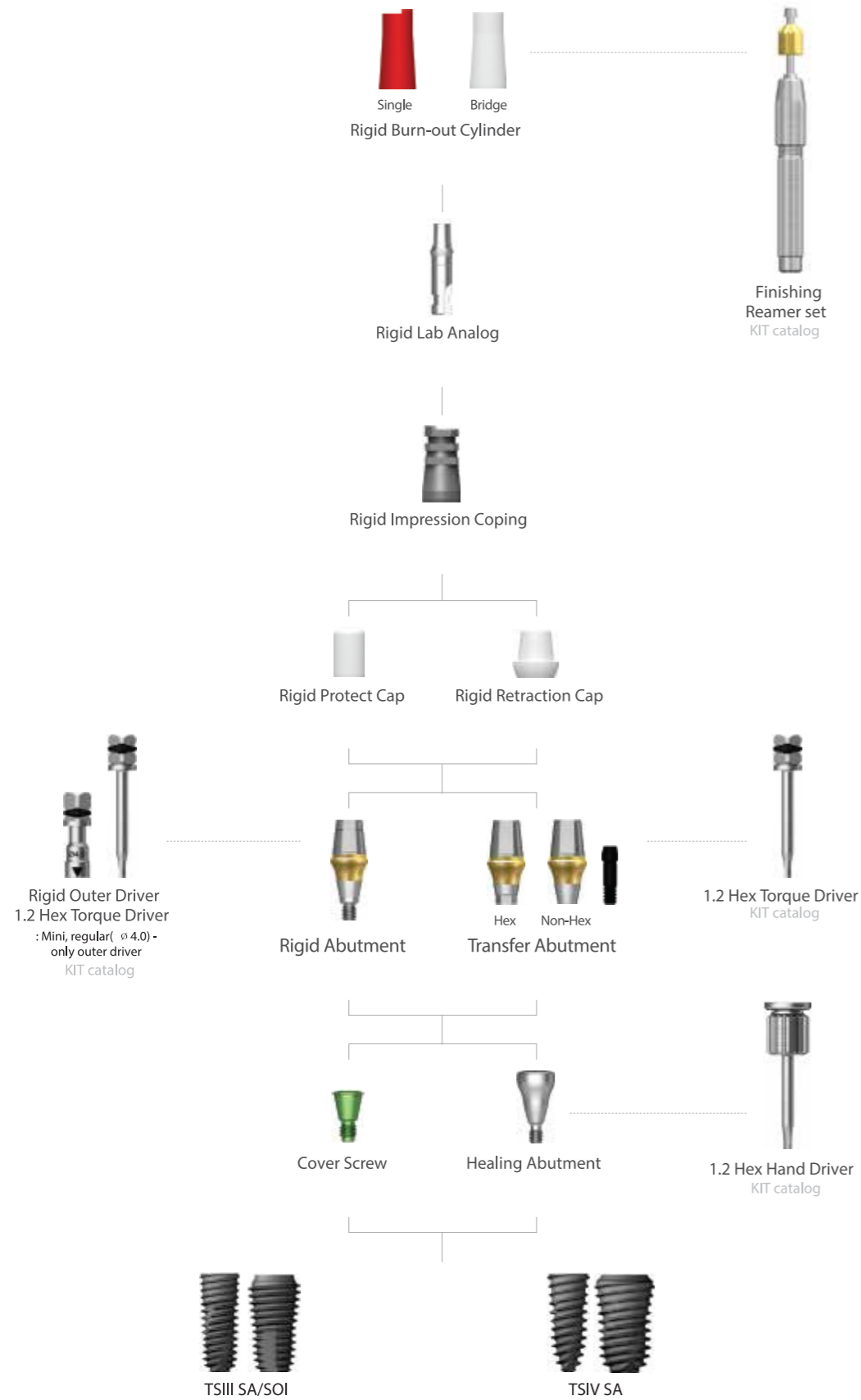


P \ H	5.0	7.0	9.0
M Ti screw : GSCHABSMT	TSCHAP M5	TSCHAP M7	TSCHAP M9
R Ti screw : GSCHABSST	TSCHAP R5	TSCHAP R7	TSCHAP R9



Rigid / Transfer

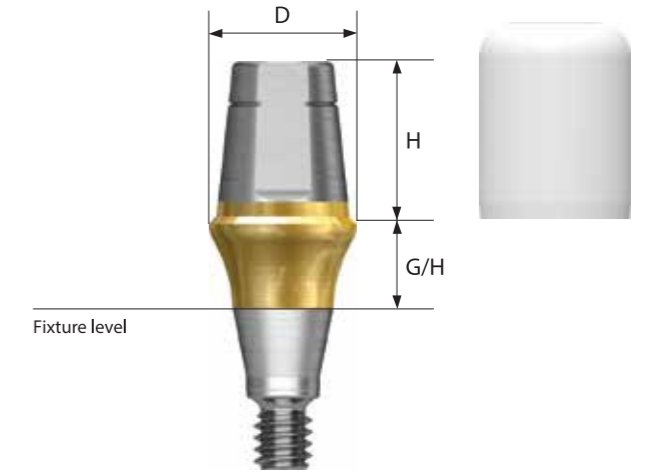
Abutment Level Impression



Rigid Abutment



- Abutment for producing cement-retained prosthesis
- Abutment level impression
- Ø4.0 : tightened with outer driver (code : ORDML/ORDMS)
- Ø4.5/5.0/6.0 : tightened with outer driver or 1.2 hex driver
- Ø7.0 : tightened with 1.2 hex driver
- Recommended tightening torque : 30Ncm
- Packing unit : Abutment + Protect cap



Abutment + protect cap order code
: Product code + P (ex : GSRA5620 P)

D Ø4.0

M

H \ G/H	1.0	2.0	3.0	4.0	5.0
4.0	GSRA 4410	GSRA 4420	GSRA 4430	GSRA 4440	GSRA 4450
5.5	GSRA 4610	GSRA 4620	GSRA 4630	GSRA 4640	GSRA 4650
7.0	GSRA 4710	GSRA 4720	GSRA 4730	GSRA 4740	GSRA 4750

D Ø4.5

M

H \ G/H	1.0	2.0	3.0	4.0	5.0
4.0	GSRA 4411	GSRA 4421	GSRA 4431	GSRA 4441	GSRA 4451
5.5	GSRA 4611	GSRA 4621	GSRA 4631	GSRA 4641	GSRA 4651
7.0	GSRA 4711	GSRA 4721	GSRA 4731	GSRA 4741	GSRA 4751

Rigid Abutment

D Ø4.0

R

H \ G/H	1.0	2.0	3.0	4.0	5.0
					
4.0	GSRAS 4410	GSRAS 4420	GSRAS 4430	GSRAS 4440	GSRAS 4450
5.5	GSRAS 4610	GSRAS 4620	GSRAS 4630	GSRAS 4640	GSRAS 4650
7.0	GSRAS 4710	GSRAS 4720	GSRAS 4730	GSRAS 4740	GSRAS 4750





D Ø7.0

R

H \ G/H	1.0	2.0	3.0	4.0	5.0
5.5					
	GSRA 7610	GSRA 7620	GSRA 7630	GSRA 7640	GSRA 7650

D Ø4.5

R

H \ G/H	1.0	2.0	3.0	4.0	5.0
					
4.0	GSRAS 4411	GSRAS 4421	GSRAS 4431	GSRAS 4441	GSRAS 4451
5.5	GSRAS 4611	GSRAS 4621	GSRAS 4631	GSRAS 4641	GSRAS 4651
7.0	GSRAS 4711	GSRAS 4721	GSRAS 4731	GSRAS 4741	GSRAS 4751


D Ø5.0

R

H \ G/H	1.0	2.0	3.0	4.0	5.0
					
4.0	GSRA 5410	GSRA 5420	GSRA 5430	GSRA 5440	GSRA 5450
5.5	GSRA 5610	GSRA 5620	GSRA 5630	GSRA 5640	GSRA 5650
7.0	GSRA 5710	GSRA 5720	GSRA 5730	GSRA 5740	GSRA 5750

D Ø6.0

R




H \ G/H	1.0	2.0	3.0	4.0	5.0
					
4.0	GSRA 6410	GSRA 6420	GSRA 6430	GSRA 6440	GSRA 6450
5.5	GSRA 6610	GSRA 6620	GSRA 6630	GSRA 6640	GSRA 6650
7.0	GSRA 6710	GSRA 6720	GSRA 6730	GSRA 6740	GSRA 6750

Rigid Abutment Components

Rigid Protect Cap

- Used for rigid abutment protection and reducing patient discomfort
- Used as a temporary crown base
- Used for transfer abutment (except Ø4.0)



M Mini
R Regular

D \ H	4.0	5.5	7.0
Ø 4.0 / Ø 4.0	 GSRPC 440	 GSRPC 460	 GSRPC 470
Ø 4.5 / Ø 4.5	GSRPC 441	GSRPC 461	GSRPC 471
Ø 5.0	GSRPC 540	GSRPC 560	GSRPC 570
Ø 6.0	GSRPC 640	GSRPC 660	GSRPC 670
Ø 7.0	-	GSRPC 760	-

Rigid Burn-out Cylinder

- Replacement of resin cap before wax up using rigid abutment
- Enabling the production of elaborate prosthesis with uniform interior
- Used after casting, after cleaning the margin for proper fitting




M Mini
R Regular

D \ Type	Single	Bridge
Ø 4.0 / Ø 4.0	 GSRP 400S	 GSRP 400B
Ø 4.5 / Ø 4.5	GSRP 450S	GSRP 450B
Ø 5.0	GSRP 500S	GSRP 500B
Ø 6.0	GSRP 600S	GSRP 600B
Ø 7.0	GSRP 700S	GSRP 700B

Rigid Retraction Cap

- Used for accurate margin reproduction by pushing away the surrounding gingiva when taking a direct impression of rigid abutment
- Used as a temporary crown base
- Used for transfer abutment (except Ø4.0)

M Mini
R Regular

D \ H	4.0	5.5	7.0
Ø 4.0 / Ø 4.0	 GSRRC 440	 GSRRC 460	 GSRRC 470
Ø 4.5 / Ø 4.5	GSRRC 441	GSRRC 461	GSRRC 471
Ø 5.0	GSRRC 540	GSRRC 560	GSRRC 570
Ø 6.0	GSRRC 640	GSRRC 660	GSRRC 670
Ø 7.0	-	GSRRC 760	-

Rigid Lab Analog

- Rigid abutment reproduction on model after impression
- Used by connecting to the appropriate color coded rigid impression coping

M Mini
R Regular

D \ H	4.0	5.5	7.0
Ø 4.0 / Ø 4.0	 GSRLA 440	 GSRLA 460	 GSRLA 470
Ø 4.5 / Ø 4.5	GSRLA 441	GSRLA 461	GSRLA 471
Ø 5.0	GSRLA 540	GSRLA 560	GSRLA 570
Ø 6.0	GSRLA 640	GSRLA 660	GSRLA 670
Ø 7.0	-	GSRLA 760	-

Rigid Impression Coping

- Components for rigid abutment impression
- Enabling the production of elaborate prosthesis using lab analog
- Used by selecting the color matching the abutment height
- Used for transfer abutment (except Ø4.0)

M Mini
R Regular

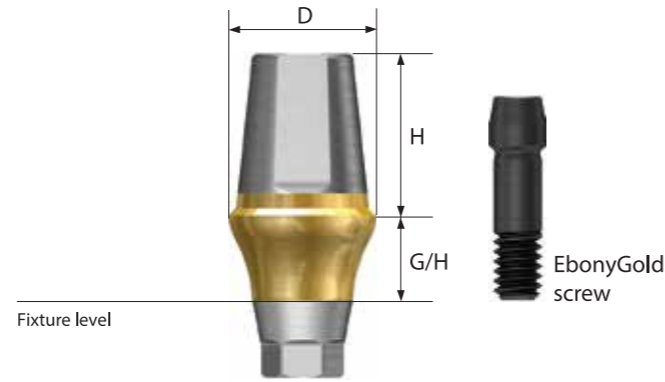
D \ H	4.0	5.5	7.0
Ø 4.0 / Ø 4.0	 GSRIC 440S	 GSRIC 460S	 GSRIC 470S
Ø 4.5 / Ø 4.5	GSRIC 441S	GSRIC 461S	GSRIC 471S
Ø 5.0	GSRIC 540S	GSRIC 560S	GSRIC 570S
Ø 6.0	GSRIC 640S	GSRIC 660S	GSRIC 670S
Ø 7.0	-	GSRIC 760S	-

Transfer Abutment

- Abutment for producing cement-retained/combination prosthesis
- Fixture level impression
- Abutment level impression possible by rigid impression coping (except Ø4.0)
- Tightened with 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw



Abutment + EbonyGold screw order code
: Product code + WH (ex : GSTA4621 WH)



D Ø4.5



EbonyGold screw : GSABSM

		H \ G/H	1.0	2.0	3.0	4.0
Hex	5.5					
	7.0					
Non-Hex	5.5					
	7.0					

		H \ G/H	5.0	6.0	7.0
Hex	5.5				
	7.0				
Non-Hex	5.5				
	7.0				

D Ø4.0



EbonyGold screw : GSABSM

Abutment level impression not available

		H \ G/H	1.0	2.0	3.0	4.0
Hex	5.5					
	7.0					
Non-Hex	5.5					
	7.0					

		H \ G/H	5.0	6.0	7.0
Hex	5.5				
	7.0				
Non-Hex	5.5				
	7.0				

D Ø4.5



EbonyGold screw : GSABSS

		H \ G/H	1.0	2.0	3.0	4.0
Hex	5.5					
	7.0					
Non-Hex	5.5					
	7.0					

		H \ G/H	5.0	6.0	7.0
Hex	5.5				
	7.0				
Non-Hex	5.5				
	7.0				

Transfer Abutment

D Ø5.0



EbonyGold screw
:GSABSS

		H \ G/H	1.0	2.0	3.0	4.0
Hex	4.0		GSTA 5410	GSTA 5420	GSTA 5430	GSTA 5440
	5.5		GSTA 5610	GSTA 5620	GSTA 5630	GSTA 5640
	7.0		GSTA 5710	GSTA 5720	GSTA 5730	GSTA 5740
Non-Hex	4.0		GSTA 5410N	GSTA 5420N	GSTA 5430N	GSTA 5440N
	5.5		GSTA 5610N	GSTA 5620N	GSTA 5630N	GSTA 5640N
	7.0		GSTA 5710N	GSTA 5720N	GSTA 5730N	GSTA 5740N

D Ø6.0



EbonyGold screw
:GSABSS

		H \ G/H	5.0	6.0	7.0
Hex	4.0		GSTA 6450	GSTA 6460	GSTA 6470
	5.5		GSTA 6650	GSTA 6660	GSTA 6670
	7.0		GSTA 6750	GSTA 6760	GSTA 6770
Non-Hex	4.0		GSTA 6450N	GSTA 6460N	GSTA 6470N
	5.5		GSTA 6650N	GSTA 6660N	GSTA 6670N
	7.0		GSTA 6750N	GSTA 6760N	GSTA 6770N

		H \ G/H	5.0	6.0	7.0
Hex	4.0		GSTA 5450	GSTA 5460	GSTA 5470
	5.5		GSTA 5650	GSTA 5660	GSTA 5670
	7.0		GSTA 5750	GSTA 5760	GSTA 5770
Non-Hex	4.0		GSTA 5450N	GSTA 5460N	GSTA 5470N
	5.5		GSTA 5650N	GSTA 5660N	GSTA 5670N
	7.0		GSTA 5750N	GSTA 5760N	GSTA 5770N

D Ø7.0



EbonyGold screw
:GSABSS

		H \ G/H	1.0	2.0	3.0	4.0
Hex	4.0		GSTA 7410	GSTA 7420	GSTA 7430	GSTA 7440
	5.5		GSTA 7610	GSTA 7620	GSTA 7630	GSTA 7640
	7.0		GSTA 7710	GSTA 7720	GSTA 7730	GSTA 7740
Non-Hex	4.0		GSTA 7410N	GSTA 7420N	GSTA 7430N	GSTA 7440N
	5.5		GSTA 7610N	GSTA 7620N	GSTA 7630N	GSTA 7640N
	7.0		GSTA 7710N	GSTA 7720N	GSTA 7730N	GSTA 7740N

D Ø6.0



EbonyGold screw
:GSABSS

		H \ G/H	1.0	2.0	3.0	4.0
Hex	4.0		GSTA 6410	GSTA 6420	GSTA 6430	GSTA 6440
	5.5		GSTA 6610	GSTA 6620	GSTA 6630	GSTA 6640
	7.0		GSTA 6710	GSTA 6720	GSTA 6730	GSTA 6740
Non-Hex	4.0		GSTA 6410N	GSTA 6420N	GSTA 6430N	GSTA 6440N
	5.5		GSTA 6610N	GSTA 6620N	GSTA 6630N	GSTA 6640N
	7.0		GSTA 6710N	GSTA 6720N	GSTA 6730N	GSTA 6740N

		H \ G/H	5.0	6.0	7.0
Hex	4.0		GSTA 7450	GSTA 7460	GSTA 7470
	5.5		GSTA 7650	GSTA 7660	GSTA 7670
	7.0		GSTA 7750	GSTA 7760	GSTA 7770
Non-Hex	4.0		GSTA 7450N	GSTA 7460N	GSTA 7470N
	5.5		GSTA 7650N	GSTA 7660N	GSTA 7670N
	7.0		GSTA 7750N	GSTA 7760N	GSTA 7770N

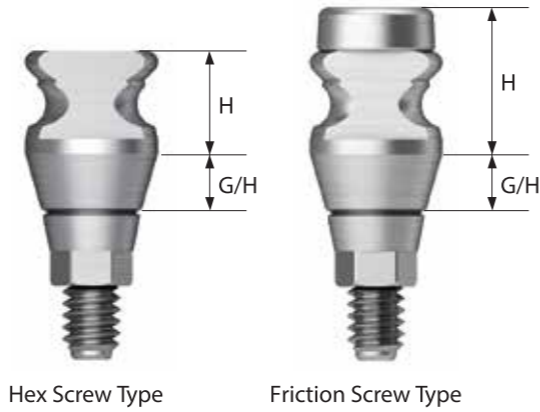
Transfer Abutment Components

Bite Impression Coping

- Components for fixture level impression taking
- Bite taking as well as impression taking
- Same basic usage as transfer impression coping
- Hand tightened with bite impression coping driver
- Hex screw type tightened with a 1.2 hex driver and friction screw type tightened with bite impression coping driver

M Mini (Yellow)

R Regular (Green)



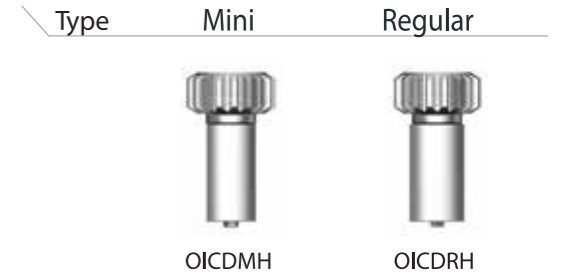
Bite Impression Coping Driver

Hex Screw Type

- Used for tightening and loosening of bite impression coping
- Dedicated driver for hex screw type

M Mini (Yellow)

R Regular (Green)

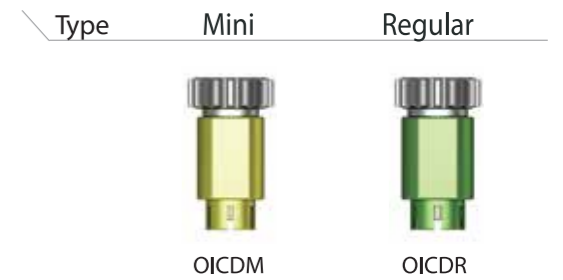


Friction Screw Type

- Used for tightening and loosening of bite impression coping
- Dedicated driver for friction screw type

M Mini (Yellow)

R Regular (Green)



D \ H	G/H	2.0	3.0	4.0	5.0
Ø 4.0	3.5	GSBICM 4420H	GSBICM 4430H	GSBICM 4440H	GSBICM 4450H
	5.5	GSBICM 4620H	GSBICM 4630H	GSBICM 4640H	GSBICM 4650H
Ø 4.5	3.5	GSBICM 4421H	GSBICM 4431H	GSBICM 4441H	GSBICM 4451H
	5.5	GSBICM 4621H	GSBICM 4631H	GSBICM 4641H	GSBICM 4651H
Ø 4.5	3.5	GSBICR 4421H	GSBICR 4431H	GSBICR 4441H	GSBICR 4451H
	5.5	GSBICR 4621H	GSBICR 4631H	GSBICR 4641H	GSBICR 4651H
Ø 5.0	3.5	GSBICR 5420H	GSBICR 5430H	GSBICR 5440H	GSBICR 5450H
	5.5	GSBICR 5620H	GSBICR 5630H	GSBICR 5640H	GSBICR 5650H

D \ H	G/H	2.0	3.0	4.0	5.0
Ø 4.0	5.0	GSBICM 4420	GSBICM 4430	GSBICM 4440	GSBICM 4450
	7.0	GSBICM 4620	GSBICM 4630	GSBICM 4640	GSBICM 4650
Ø 4.5	5.0	GSBICM 4421	GSBICM 4431	GSBICM 4441	GSBICM 4451
	7.0	GSBICM 4621	GSBICM 4631	GSBICM 4641	GSBICM 4651
Ø 4.5	5.0	GSBICR 4421	GSBICR 4431	GSBICR 4441	GSBICR 4451
	7.0	GSBICR 4621	GSBICR 4631	GSBICR 4641	GSBICR 4651
Ø 5.0	5.0	GSBICR 5420	GSBICR 5430	GSBICR 5440	GSBICR 5450
	7.0	GSBICR 5620	GSBICR 5630	GSBICR 5640	GSBICR 5650

Bite Index

- Assembled to the fixture for check bite impression
- Hand tightened with a 1.2 hex driver
- Packing unit : 2ea

M Mini

R Regular

D \ L	4.0	6.0	8.0	10.0	12.0
Ø 4.5					
Ø 5.5	GSBIS 5504S	GSBIS 5506S	GSBIS 5508S	GSBIS 5510S	GSBIS 5512S

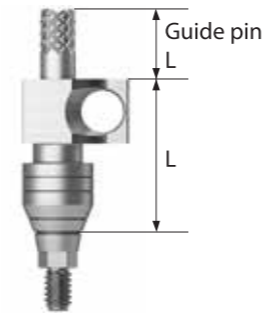
Transfer Abutment Components

Fixture Pick-up Impression Coping

- Components for fixture level impression taking
- Using open tray
- Unique design that is stably fixed within the impression body
- Hand tightened with a 1.2 hex driver
- Packing unit : Impression coping body + Guide pin(*)

M Mini (Yellow)

R Regular (Green)



D \ L	11		Guide Pin			
	Type	Hex	Non-Hex	0	5.0	9.0
Ø 4.0		GSPIM 4011	GSPIM 4011N	GSPGPM 100	GSPGPM 150*	GSPGPM 150L
Ø 4.5		GSPIM 4511	GSPIM 4511N			
Ø 4.0		GSPIS 4011	GSPIS 4011N	GSPGPR 100	GSPGPR 150*	GSPGPR 150L
Ø 4.5		GSPIS 4511	GSPIS 4511N			
Ø 5.0		GSPIS 5011	GSPIS 5011N			
Ø 6.0		GSPIS 6011	GSPIS 6011N			
Ø 7.0		GSPIS 7011	GSPIS 7011N			

D \ L	15		Guide Pin			
	Type	Hex	Non-Hex	0	5.0	9.0
Ø 4.0		GSPIM 4015	GSPIM 4015N	GSPGPM 100L	GSPGPM 150L*	GSPGPM 200L
Ø 4.5		GSPIM 4515	GSPIM 4515N			
Ø 4.0		GSPIS 4015	GSPIS 4015N	GSPGPR 100L	GSPGPR 150L*	GSPGPR 200L
Ø 4.5		GSPIS 4515	GSPIS 4515N			
Ø 5.0		GSPIS 5015	GSPIS 5015N			
Ø 6.0		GSPIS 6015	GSPIS 6015N			
Ø 7.0		GSPIS 7015	GSPIS 7015N			

Fixture Transfer Impression Coping

- Components for fixture level impression taking
- Using closed tray
- Triangular are structure for stable fastening and accurate repositioning
- Hand tightened with a 1.2 hex driver
- Packing unit
 - Hex : Impression coping body + Guide pin
 - Non-hex : Impression coping

M Mini (Yellow)

R Regular (Green)



D \ L	11		14		
	Type	Hex	Non-Hex	Hex	Non-Hex
Ø 4.0		GSTIM 4011	GSTIM 4011N	GSTIM 4014	GSTIM 4014N
Ø 4.5		GSTIM 4511	GSTIM 4511N	GSTIM 4514	GSTIM 4514N
Ø 4.0		GSTIS 4011	GSTIS 4011N	GSTIS 4014	GSTIS 4014N
Ø 4.5		GSTIS 4511	GSTIS 4511N	GSTIS 4514	GSTIS 4514N
Ø 5.0		GSTIS 5011	GSTIS 5011N	GSTIS 5014	GSTIS 5014N
Ø 6.0		GSTIS 6011	GSTIS 6011N	GSTIS 6014	GSTIS 6014N
Ø 7.0		GSTIS 7011	GSTIS 7011N	GSTIS 7014	GSTIS 7014N

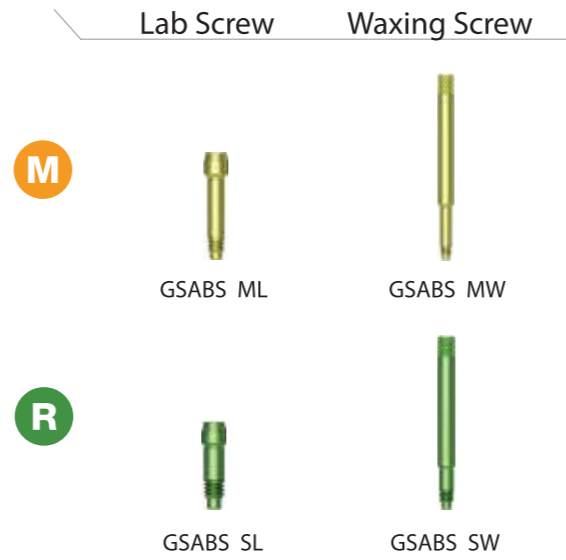
Transfer Abutment

Components

Laboratory Screw

- Lab screw : abutment screw for lab work
- Waxing screw : screw with the screw hole extended upward for making screw-type prostheses and transfer jigs
- Packing unit : Lab screw + Waxing screw

- M** Mini
- R** Regular



OSSTEM[®]
IMPLANT

Fixture Lab Analog

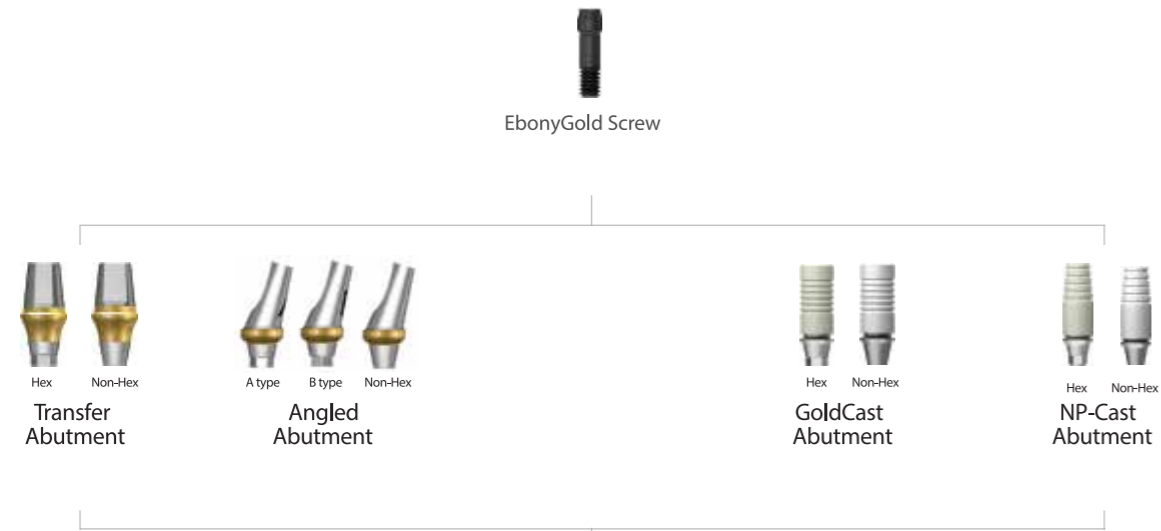
- Lab analog for fixture level impression
- Selected according to the diameter of a fixture : Ø3.0/3.5/4.0 or greater

- M** Mini
- R** Regular

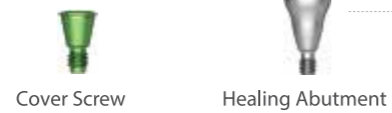


Transfer / Angled / GoldCast / NP-Cast

Fixture Level Impression



Fixture Lab Analog



Cover Screw

Healing Abutment



1.2 Hex Hand Driver
KIT catalog



TSIII SA



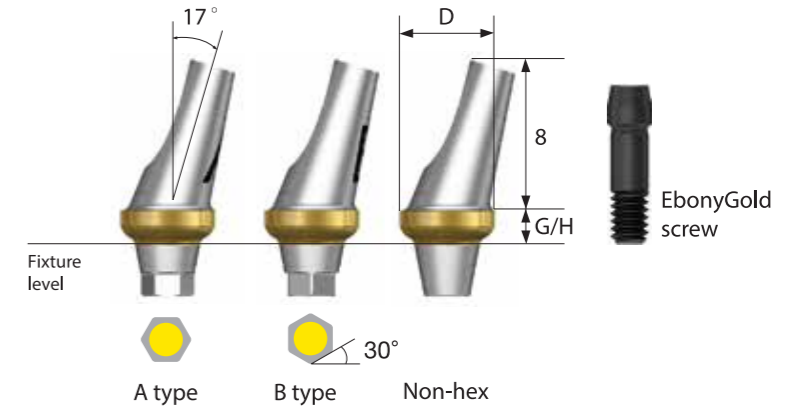
TSIV SA

Angled Abutment



- Abutment for producing cement-retained/combination prosthesis
- Fixture placement angle compensated up to 23° without removal
- Fixture level impression
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw

Abutment + EbonyGold screw order code
: Product code + WH (ex : GSAA5020A WH)



D Ø4.0



EbonyGold screw : GSABSM

G/H Type	2.0			4.0		
	Hex A	Hex B	Non-Hex	Hex A	Hex B	Non-Hex
	GSAA 4020MA	GSAA 4020MB	GSAA 4020MN	GSAA 4040MA	GSAA 4040MB	GSAA 4040MN

D Ø4.5



EbonyGold screw : GSABSM

G/H Type	2.0			4.0		
	Hex A	Hex B	Non-Hex	Hex A	Hex B	Non-Hex
	GSAA 4520MA	GSAA 4520MB	GSAA 4520MN	GSAA 4540MA	GSAA 4540MB	GSAA 4540MN

Angled Abutment

D Ø4.5



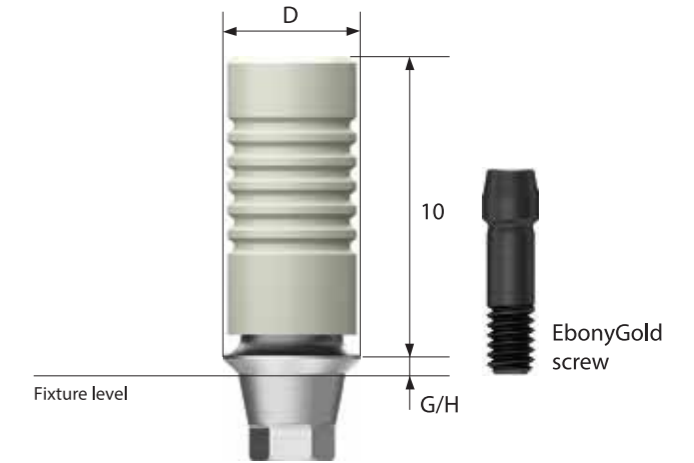
EbonyGold screw : GSABSS

G/H Type	2.0			4.0		
	Hex A	Hex B	Non-Hex	Hex A	Hex B	Non-Hex
	GSAA 4520 A	GSAA 4520 B	GSAA 4520 N	GSAA 4540 A	GSAA 4540 B	GSAA 4540 N

GoldCast Abutment

- Abutment for producing cement-retained/combination/screw-retained prosthesis
- Used to produce customized prosthesis by casting with gold alloy
- Abutment melting temperature : 1,400~1,450°C
- Fixture level impression
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw

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



D Ø5.0



EbonyGold screw : GSABSS

G/H Type	2.0			4.0		
	Hex A	Hex B	Non-Hex	Hex A	Hex B	Non-Hex
	GSAA 5020 A	GSAA 5020 B	GSAA 5020 N	GSAA 5040 A	GSAA 5040 B	GSAA 5040 N

D Ø4.0



EbonyGold screw : GSABSM

G/H Type	1.0		3.0	
	Hex	Non-Hex	Hex	Non-Hex
	GSGA 4010S	GSGA 4010B	GSGA 4030S	GSGA 4030B

D Ø6.0



EbonyGold screw : GSABSS

G/H Type	2.0			4.0		
	Hex A	Hex B	Non-Hex	Hex A	Hex B	Non-Hex
	GSAA 6020 A	GSAA 6020 B	GSAA 6020 N	GSAA 6040 A	GSAA 6040 B	GSAA 6040 N

D Ø4.5

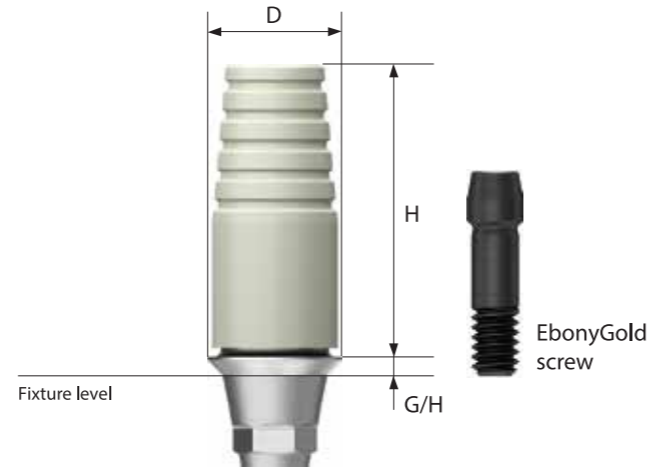


EbonyGold screw : GSABSS

G/H Type	1.0		3.0	
	Hex	Non-Hex	Hex	Non-Hex
	GSGA 4510S	GSGA 4510B	GSGA 4530S	GSGA 4530B

NP-Cast Abutment

- Abutment for producing cement-retained/combination/screw-retained prosthesis
- Used to produce customized prosthesis by casting with nonprecious metal alloy
- Abutment melting temperature : 1,400~1,550°C
- Fixture level impression
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw



Abutment + EbonyGold screw order code
 : Product code + WH (ex : GSNA4510S WH)

D Ø4.0



EbonyGold screw
 : GSABSM

G/H Type	1.0		3.0	
	Hex	Non-Hex	Hex	Non-Hex
	GSNA 4010S	GSNA 4010B	GSNA 4030S	GSNA 4030B



D Ø4.5

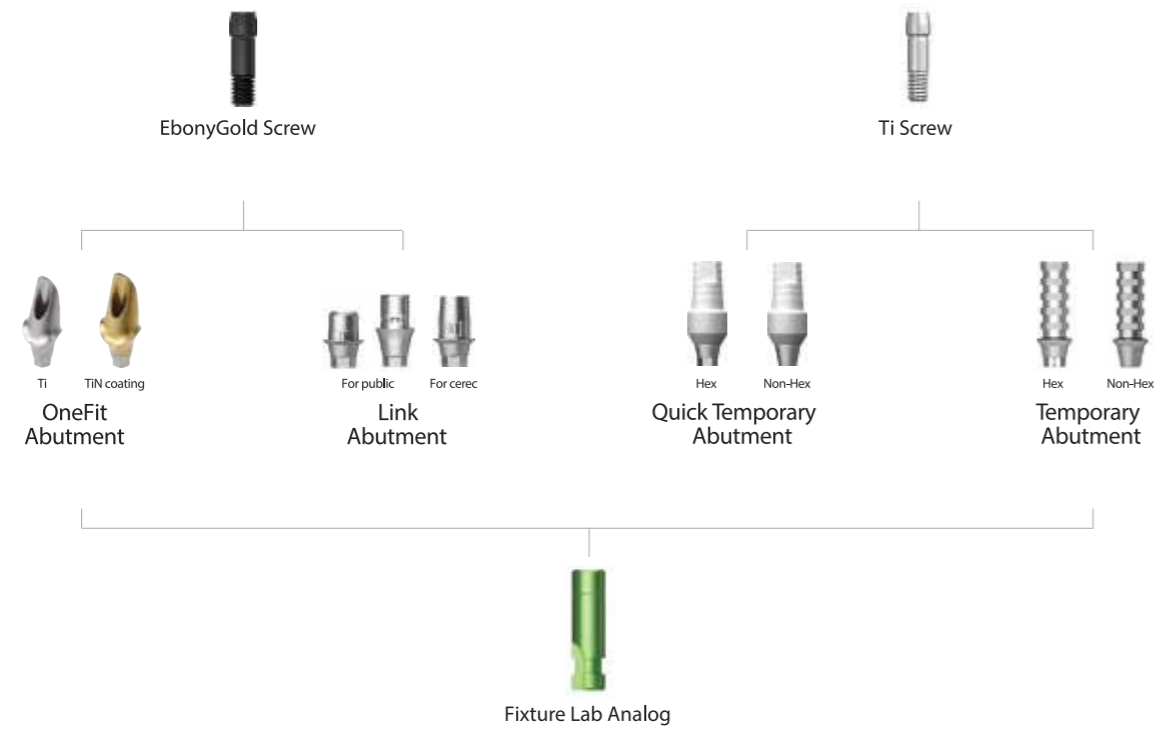


EbonyGold screw
 : GSABSS

G/H Type	1.0		3.0	
	Hex	Non-Hex	Hex	Non-Hex
	GSNA 4510S	GSNA 4510B	GSNA 4530S	GSNA 4530B

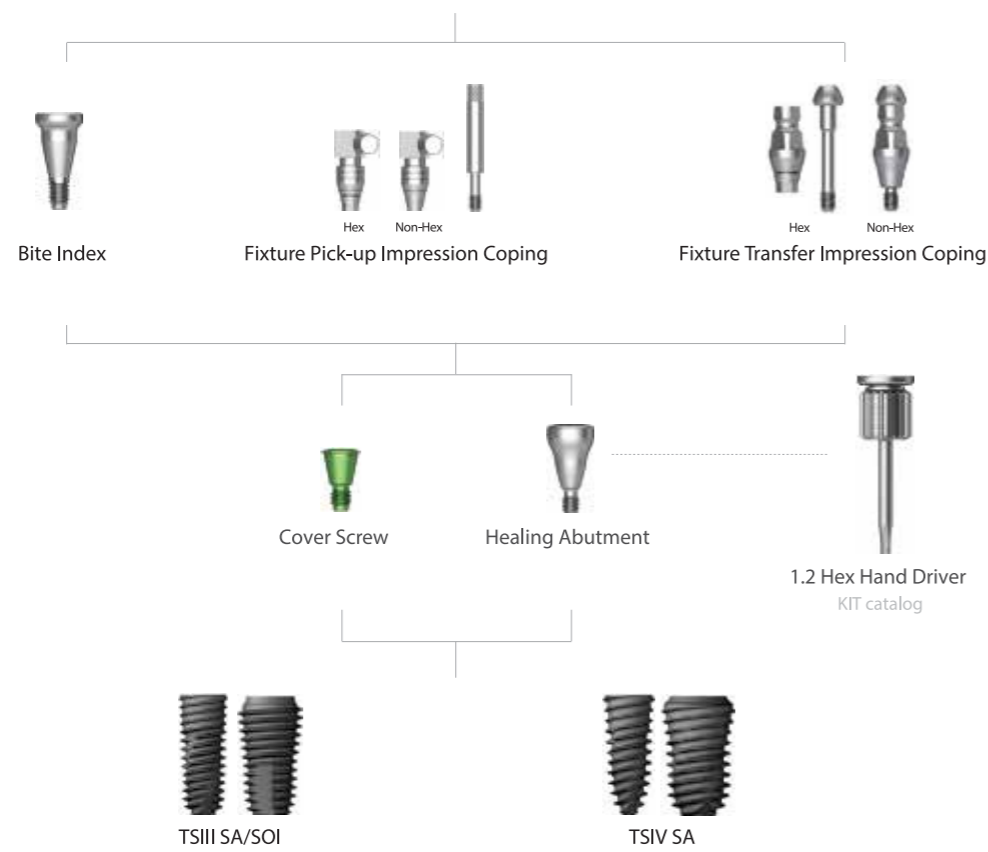
OneFit / Link / ZioCera / ZioCera Angled Temporary / Quick Temporary

Fixture Level Impression



OneFit Abutment

- Abutment for producing cement-retained/combination prosthesis
- Custom abutment produced using CAD/CAM
- Fixture level impression
- Enabling abutment level impression using scan healing abutment
- Production time (on the basis of working day)
 - Titanium : 5 days
 - Titanium + gold color : 7 days
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw

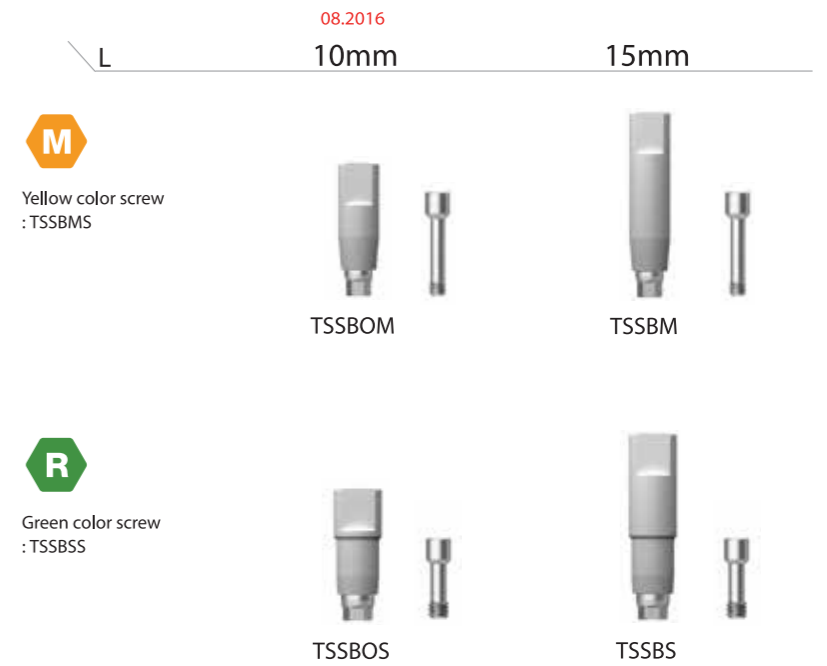


Scan Body

- Scan body for producing titanium custom abutment
- Model scan : Long (15mm)
- Intra oral scan : Short (10mm)
- Hand tightened with a 1.2 hex driver
- Packing unit : Scan body + Ti screw

Scan body + screw order code
: Product code + TH (ex : TSSBM TH)

M Mini
R Regular



Scan body (long type) or producing OneFit abutment for implants of other companies

D Type	DESBSTH	Purple anodizing screw
Di Type		
Dt Type	CUSBSTH	
M Type		

OneFit Zr Abutment

- Abutment for producing cement-retained/comboination prosthesis
- Hybrid type custom abutment produced using CAD/CAM
- Material : Ti base + Zr coping
- Suitable for making aesthetic prosthesis for anterior region, etc.
- Fixture level impression
- Production time (on the basis of working day) : 7 days
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment assembly + EbonyGold screw



Pre-Milled Abutment

- Making custom abutment with dental milling equipment
- Easy identification of non-genuine product with osstem activation mark
- Superior tightening accuracy compared to non-genuine
- Dedicated lineup for various milling equipment
(milling manufacturers : Doowon, Vatech, Neo, Manix, and Zirkozahn)
- Packing unit : Abutment + EbonyGold screw or Ti screw

Abutment + screw order code
: Product code + WH or TH (ex : TSPM10ARM WH)



Equipment	Implant	D	Specifications		Code
Doowon ARUM Vatech imes-icore	Osstem TS	Ø 10	Mini	Hex	TSPM10 ARMWH
			Mini	Non-hex	TSPM10 ARMNWH
			Regular	Hex	TSPM10 ARRWH
	D type	Ø 10	Regular	Non-hex	TSPM10 ARRNWH
			Regular	Hex	DEPM10 ARRTH
			Regular	Non-hex	DEPM10 ARRNTH
N type	Ø 10	Regular	Hex	NEPM10 ARRTH	
		Regular	Non-hex	NEPM10 ARRNTH	
		Regular	Hex	TSPM10 CAMWH	
Neo Cameleon	Osstem TS	Ø 10	Mini	Non-hex	TSPM10 CAMNWH
			Regular	Hex	TSPM10 CARWH
			Regular	Non-hex	TSPM10 CARNWH
	D type	Ø 10	Regular	Hex	DEPM10 CARTH
			Regular	Non-hex	DEPM10 CARNTH
			Regular	Hex	NEPM10 CARTH
N type	Ø 10	Regular	Non-hex	NEPM10 CARNTH	
		Mini	Hex	TSPM10 ZKMWH	
		Mini	Non-hex	TSPM10 ZKMNWH	
Zirkozahn	Osstem TS	Ø 10	Regular	Hex	TSPM10 ZKRWH
			Regular	Non-hex	TSPM10 ZKRNWH
			Mini	Hex	TSPM10 MXMWH
Manix	Osstem TS	Ø 10	Mini	Non-hex	TSPM10 MXMNWH
			Regular	Hex	TSPM10 MXRWH
			Regular	Non-hex	TSPM10 MXRNWH

Link Abutment for Public (A Type)

- Abutment for producing cement-retained/combination/screw-retained prosthesis
- Used for producing Ti + Zr custom abutment with CAD/CAM equipment
- Osstem's official implant library provided
- Fixture level impression
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw + Scan body

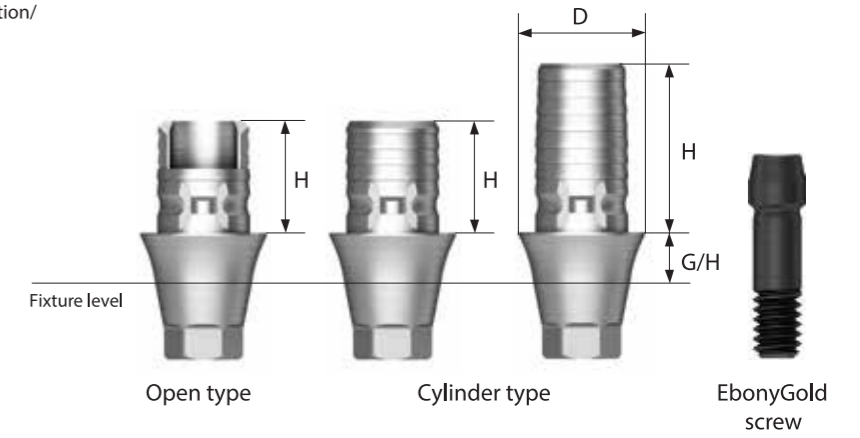
Abutment + EbonyGold screw + scan body
order code
: Product code + WH (ex : TSPTB431R WH)



Link Abutment for Public (B Type)

- Abutment for producing cement-retained/combination/screw-retained prosthesis
- Used for producing Ti + Zr custom abutment with CAD/CAM equipment
- Osstem's official implant library provided
- Fixture level impression
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw

Abutment + EbonyGold screw order code
: Product code + WH (ex : TSPL4541R WH)



D Ø4.0



EbonyGold screw
: GSABSM

H \ G/H Type	1.0		2.0	
	Hex	3.0	TSPTB 431M	3.0
	5.0	TSPTB 451M	5.0	TSPTB 452M
Non-Hex	3.0	TSPTB 431MN	3.0	TSPTB 432MN
	5.0	TSPTB 451MN	5.0	TSPTB 452MN

D Ø4.5



EbonyGold screw
: GSABSS

H \ G/H Type	1.0		2.0	
	Hex	3.0	TSPTB 431R	3.0
	5.0	TSPTB 451R	5.0	TSPTB 452R
Non-Hex	3.0	TSPTB 431RN	3.0	TSPTB 432RN
	5.0	TSPTB 451RN	5.0	TSPTB 452RN

D Ø4.0



EbonyGold screw
: GSABSM

H \ G/H Type	1.0				2.0				3.0				4.0					
	Hex	4.0	Open Type	TSPL 4041M	TSPL 4042M	TSPL 4043M	TSPL 4044M	4.0	Open Type	TSPL 4041MN	TSPL 4042MN	TSPL 4043MN	TSPL 4044MN	4.0	Open Type	TSPL 4041CN	TSPL 4042CN	TSPL 4043CN
4.0		Cylinder Type	TSPL 4041C	TSPL 4042C	TSPL 4043C	TSPL 4044C	6.0	Cylinder Type	TSPL 4061M	TSPL 4062M	TSPL 4063M	TSPL 4064M	6.0	Cylinder Type	TSPL 4061MN	TSPL 4062MN	TSPL 4063MN	TSPL 4064MN
6.0		Cylinder Type	TSPL 4061M	TSPL 4062M	TSPL 4063M	TSPL 4064M	6.0	Cylinder Type	TSPL 4061MN	TSPL 4062MN	TSPL 4063MN	TSPL 4064MN						

D Ø4.5



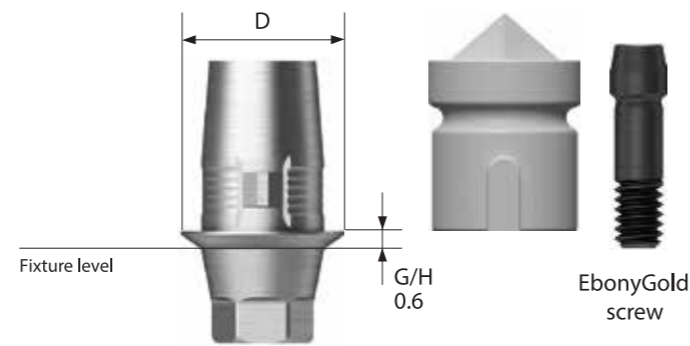
EbonyGold screw
: GSABSS

H \ G/H Type	1.0				2.0				3.0				4.0					
	Hex	4.0	Open Type	TSPL 4541R	TSPL 4542R	TSPL 4543R	TSPL 4544R	4.0	Open Type	TSPL 4541RN	TSPL 4542RN	TSPL 4543RN	TSPL 4544RN	4.0	Open Type	TSPL 4541CN	TSPL 4542CN	TSPL 4543CN
4.0		Cylinder Type	TSPL 4541C	TSPL 4542C	TSPL 4543C	TSPL 4544C	6.0	Cylinder Type	TSPL 4561R	TSPL 4562R	TSPL 4563R	TSPL 4564R	6.0	Cylinder Type	TSPL 4561RN	TSPL 4562RN	TSPL 4563RN	TSPL 4564RN
6.0		Cylinder Type	TSPL 4561R	TSPL 4562R	TSPL 4563R	TSPL 4564R												

Link Abutment for Cerec

- Abutment for producing cement-retained/combination/screw-retained prosthesis
- Used for producing Ti + Zr custom abutment with CAD/CAM equipment
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw + Scan body

Abutment + EbonyGold screw + scan body
order code
: Product code + WH (ex : TSCTBR WH)



Scan Post

- Used for the scan body of Cerec link abutment with little vertical exposure
(If the fixture is deeply placed or the soft tissue is thick)
- Scanning by connecting the scan body
- Hand tightened with a 1.2 hex driver
- Packing unit : Scan post + Ti screw

Scan post + screw order code
: Product code + TH (ex : TSCSPR TH)

- M** Mini
- R** Regular



Yellow anodizing screw
: GSABSM



TSCSPM



Green anodizing screw
: GSABSSL



TSCSPR

Scan Body

- Connected to the Cerec link abutment or scan post for scanning
- Packing unit : 10ea



TSCSBS

D Ø4.5



EbonyGold screw
: GSABSM

Type Hex Non-Hex



TSCT BM



TSCT BMN

D Ø4.5



EbonyGold screw
: GSABSS

Type Hex Non-Hex



TSCT BR

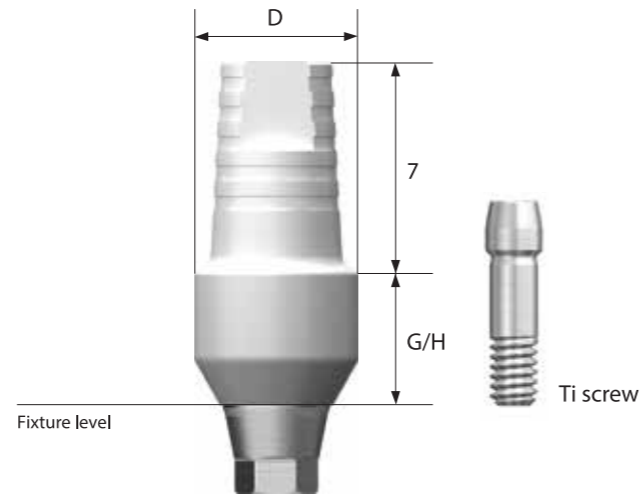


TSCT BRN

Quick Temporary Abutment

- Abutment for producing cement-retained/screw-retained prosthesis
- Used to produce temporary prosthesis for immediate loading
- Used by removing or with resin attached
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini/regular)
- Packing unit : Abutment + Ti screw

Abutment + Ti screw order code
: Product code + TH (ex : TSQTA5550 TH)



D Ø4.5



Ti screw
: GSABSST

G/H Type	1.5		5.0	
	Hex	Non-Hex	Hex	Non-Hex
	TSQTA 4515R	TSQTA 4515RN	TSQTA 4550R	TSQTA 4550RN

D Ø5.5



Ti screw
: GSABSST

G/H Type	1.5		5.0	
	Hex	Non-Hex	Hex	Non-Hex
	-	-		
	-	-	TSQTA 5550	TSQTA 5550N

03.2015

D Ø4.0



Ti screw
: GSABSMT

G/H Type	1.5		5.0	
	Hex	Non-Hex	Hex	Non-Hex
	TSQTA 4015M	TSQTA 4015MN	TSQTA 4050M	TSQTA 4050MN

D Ø4.5



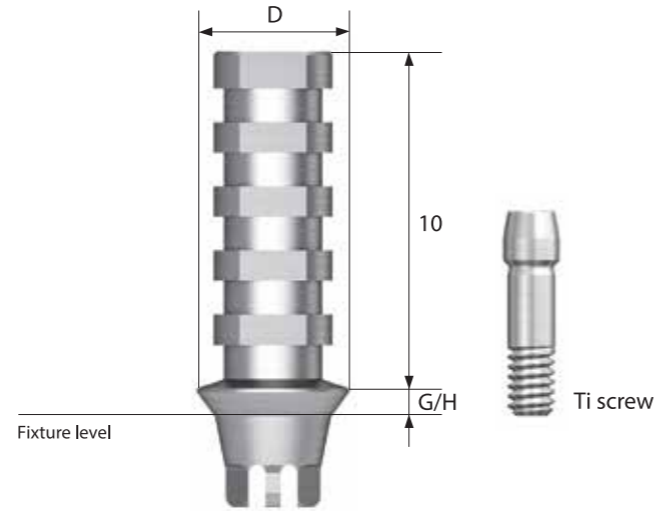
Ti screw
: GSABSMT

G/H Type	1.5		5.0	
	Hex	Non-Hex	Hex	Non-Hex
	-	-		
	-	-	TSQTA 4550	TSQTA 4550N

Temporary Abutment

- Abutment for producing cement-retained/screw-retained prosthesis
- Removed and used for producing temporary prosthesis (Ti Gr-3)
- Temporary fixation without screws possible with the hex holding structure added
- Fixture level impression
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini/regular)
- Packing unit : Abutment + Ti screw

Abutment + Ti screw order code
 : Product code + TH (ex : GSTTA4510 TH)



D Ø4.0



Ti screw : GSABSMT

G/H Type	1.0		3.0	
	Hex	Non-Hex	Hex	Non-Hex
	GSTTA 4010	GSTTA 4010N	GSTTA 4030	GSTTA 4030N



D Ø4.5

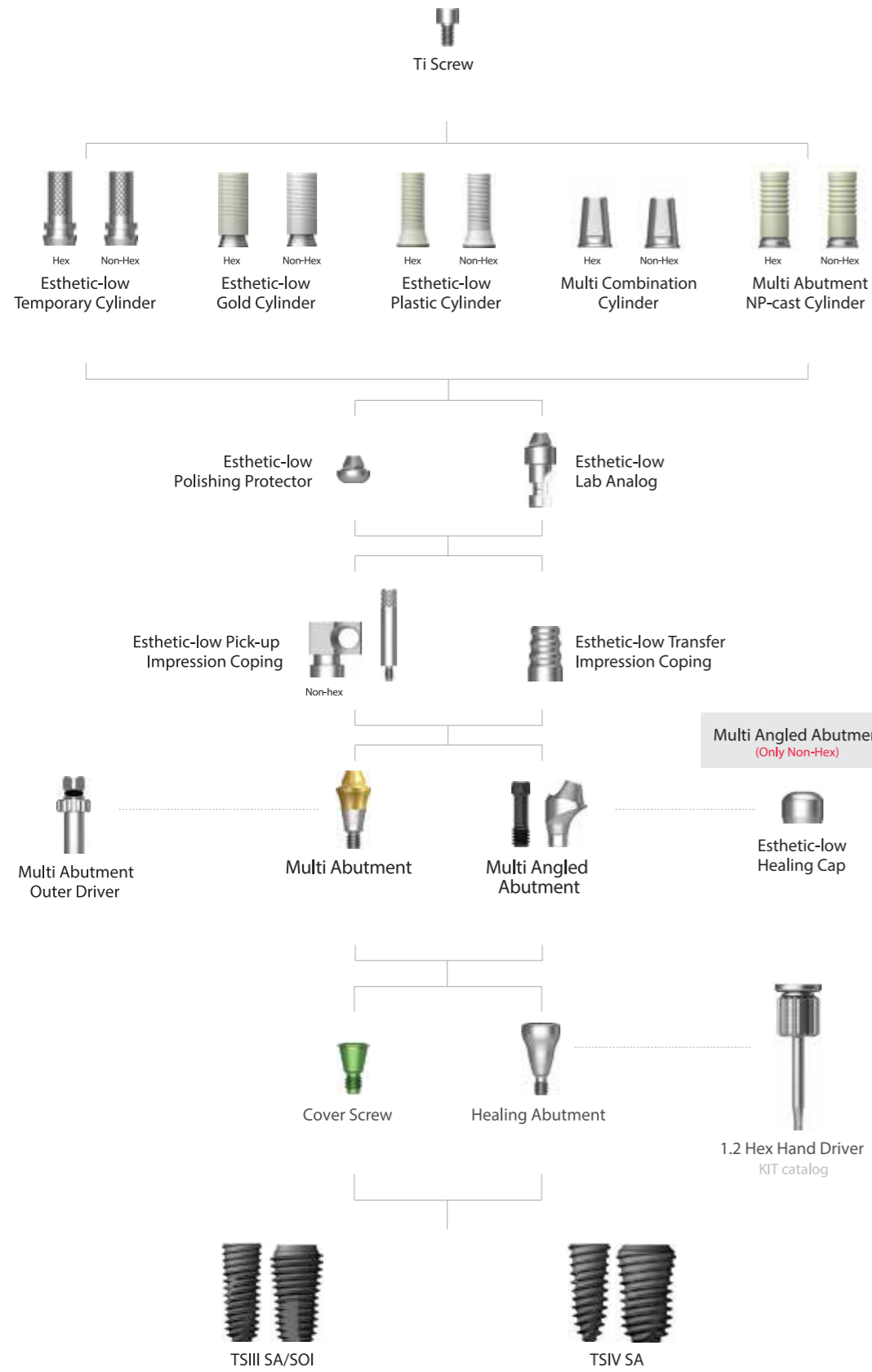


Ti screw : GSABSST

G/H Type	1.0		3.0	
	Hex	Non-Hex	Hex	Non-Hex
	GSTTA 4510	GSTTA 4510N	GSTTA 4530	GSTTA 4530N

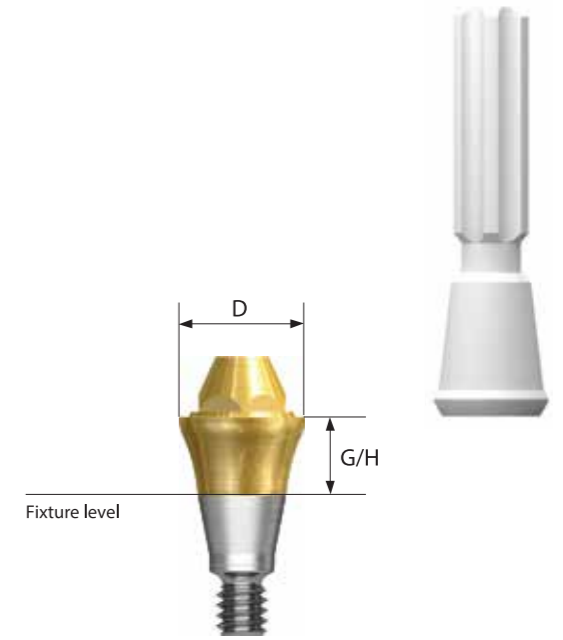
Multi / Multi Angled

Abutment Level Impression



Multi Abutment

- Used for producing screw-retained prosthesis in multiple case
- Same platform as multi angled abutment
- Producing prosthesis with US esthetic low cylinder (regular/non-hex)
- Tightened with a dedicated outer driver (code : MAOD)
- Recommended tightening torque : 30Ncm (mini/regular)
- Packing unit : Abutment + Carrier



Abutment + carrier order code
: Product code + P (ex : TSMA5030 P)

D Ø4.8



D Ø4.8



Multi Abutment Components

Multi Abutment Outer Driver

- Dedicated torque driver for multi abutment



MAOD

Multi Abutment Machine Driver

- Dedicated machine driver for multi abutment



MAMD

Multi Abutment NP-Cast Cylinder

- Used for producing screw-retained prosthesis in multi abutment
- Used to produce customized prosthesis by casting with nonprecious metal alloy
- Cylinder melting temperature : 1,400~1,550°C
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Cylinder + Ti cylinder screw
- Multi angled abutment can be used (Non-Hex)

Abutment + Ti Screw order Code
: Product code + TH (ex: TSMN500 TH)

M Mini

R Regular

Ti screw
: MTS200

D \ Type Hex Non-Hex



TSMN 500



TSMN 500N

Multi Combination Cylinder

- Used for producing combination prosthesis in multi abutment
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Cylinder + Ti cylinder screw
- Multi angled abutment can be used (Non-Hex)

Abutment + Ti screw order Code
: Product code + TH (ex: TSMC500 TH)

M Mini

R Regular

Ti screw
: MTS200

D \ Type Hex Non-Hex



TSMC 500

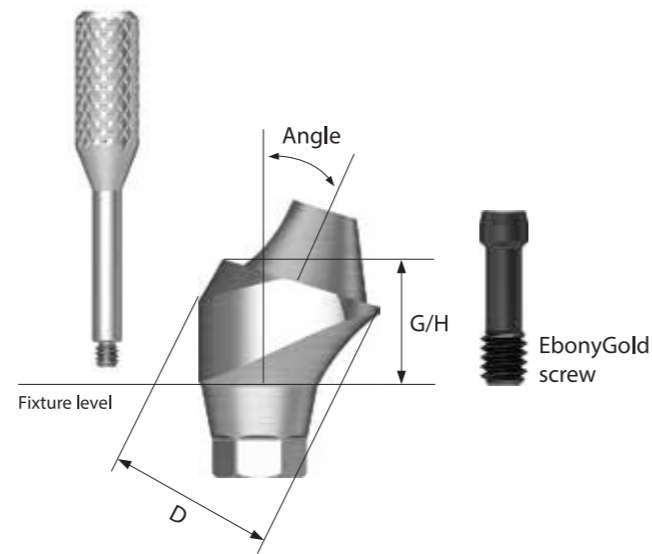


TSMC 500N

Multi Angled Abutment

- Used for producing screw-retained prosthesis in multiple case
- Same platform as multi abutment
- Fixture placement angle compensated up to 108°
- Producing prosthesis with US esthetic low cylinder (regular/non-hex)
- Using dedicated abutment screw
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw

Abutment + EbonyGold screw + Carrier order code
 : P roduct code + WH (ex : GS17MAS4840 WH)



D Ø4.8



EbonyGold screw
 : GSMABSM

Angle \ G/H	2.5	3.0	4.0
17°	GS17MAM 4820	GS17MAM 4830	GS17MAM 4840

Angle \ G/H	3.5	4.0	5.0
30°	GS30MAM 4830	GS30MAM 4840	GS30MAM 4850

D Ø4.8



EbonyGold screw
 : GSMABSS

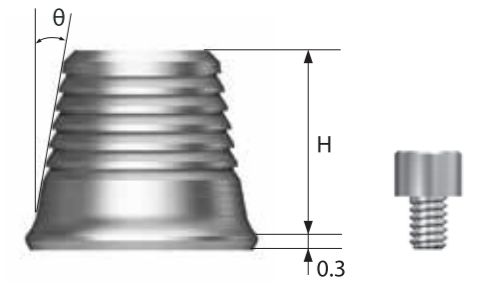
Angle \ G/H	2.5	3.0	4.0	5.0
17°	GS17MAS 4820	GS17MAS 4830	GS17MAS 4840	GS17MAS 4850

Angle \ G/H	3.5	4.0	5.0
30°	GS30MAS 4830	GS30MAS 4840	GS30MAS 4850

TS Multi Ti Base

- Used for producing combination prosthesis in TS multi abutment
- Used in connection with TS multi scan body
- Abutment level impression
- Non-hex type only
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Ti base + Ti base screw

Ti base + Ti screw order Code
 : Product code + TH (ex : TSMTB505G TH)



H \ Degree (°)	5°	10°
4	TSMTB 0405G	TSMTB 0410G
6	TSMTB 0605G	-

TS Multi Scan Body

- Used by connecting to the TS multi abutment for oral scanning
- Used for non-hex type
- Hand tightened with a 1.2 hex driver



TSMSCB

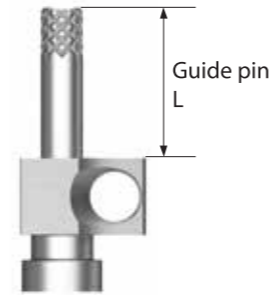
Esthetic-low Abutment

Components

Esthetic-low Pick-up Impression Coping

- Components for fixture level impression taking
- Pick-up impression coping for Esthetic-low Abutment
- Hand tightened with a 1.2 hex driver
- Packing unit : Impression coping body + Guide pin(*)

- M** Mini
- R** Regular
- W** Wide



D \ L	Hex	Non-Hex	Guide Pin			
			5	10	12	15
	MSR200 MSW200	MSR100 MSW100	GP 100 GPW 100	GP 150* GPW 150*	GP 170 -	GP 200 -

Ø 4.8 / Ø 4.8
Ø 5.5 / Ø 5.5 PS

Esthetic-low Polishing Protector

- Protecting the joint in the polishing procedure after producing a prosthesis using esthetic GoldCast/plastic cylinder
- Hand tightened with a 1.2 hex driver

- M** Mini
- R** Regular
- W** Wide

D	
	MPC R100 MPC W100

Ø 4.8 / Ø 4.8
Ø 5.5 / Ø 5.5 PS

Esthetic-low Healing Cap

- Dedicated protect cap for Esthetic-low Abutment
- Hand tightened with a 1.2 hex driver

- M** Mini
- R** Regular
- W** Wide

D \ H	6.0
	MHC R100 MHC W100

Ø 4.8 / Ø 4.8
Ø 5.5 / Ø 5.5 PS

Esthetic-low Transfer Impression Coping

- Transfer impression coping for Esthetic-low Abutment
- Hand tightened

- M** Mini
- R** Regular
- W** Wide

D \ H	8.0
	MTTR100 MTTW100

Ø 4.8 / Ø 4.8
Ø 5.5 / Ø 5.5 PS

Esthetic-low Lab Analog

- Lab analog for Esthetic-low Abutment
- Hand tightened with a 1.2 hex driver

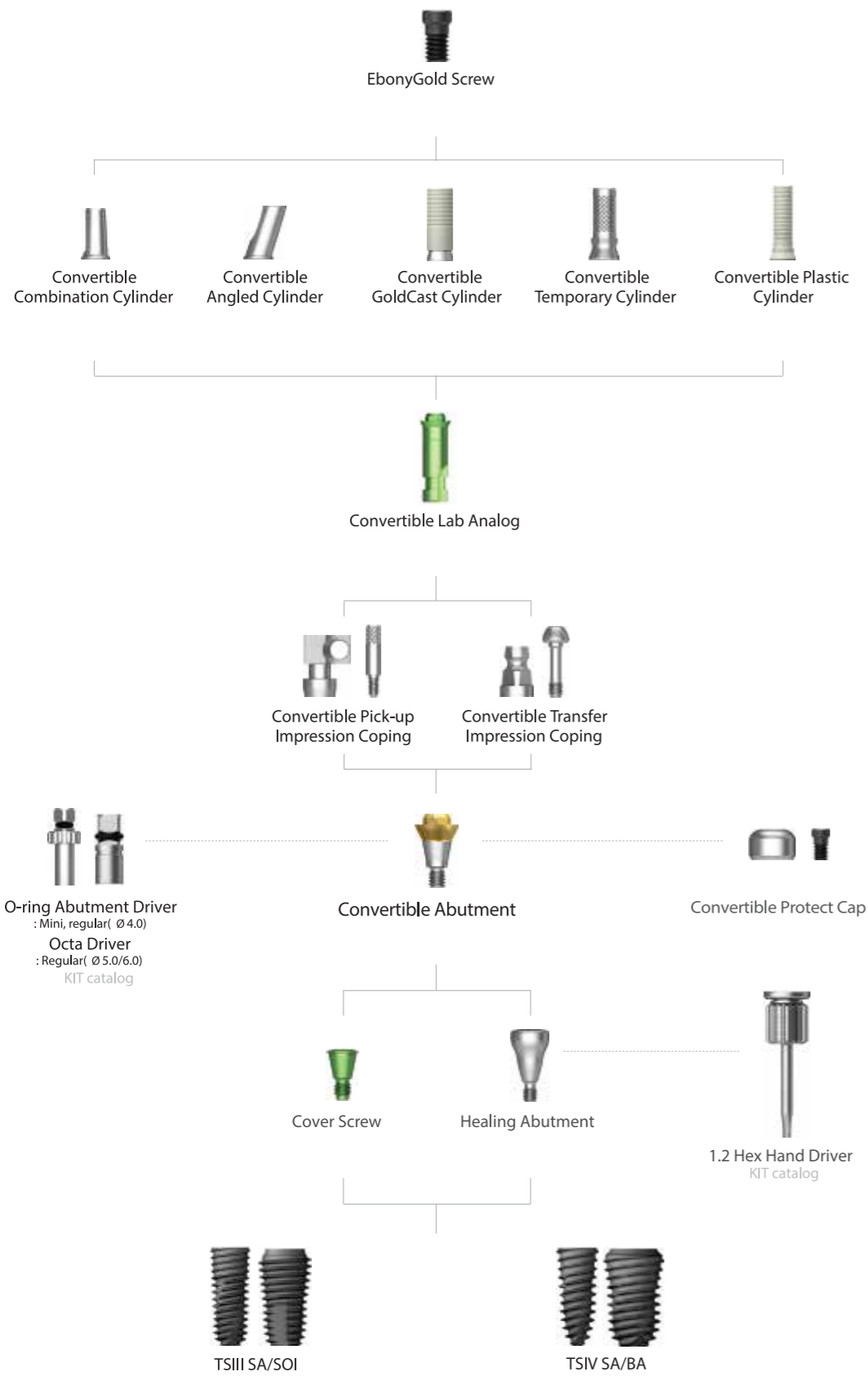
- M** Mini
- R** Regular
- W** Wide

D	
	MER R300 MER W300

Ø 4.8 / Ø 4.8
Ø 5.5 / Ø 5.5 PS

Convertible

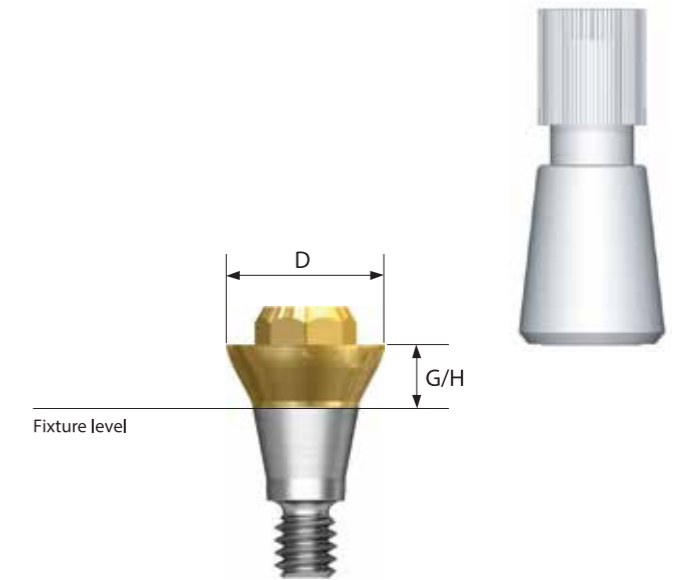
Abutment Level Impression



Convertible Abutment



- Used for producing combination/screw-retained prosthesis in multiple case
- Fixture placement angle compensated up to 60°
- Tightened with a dedicated outer driver
 - Ø4.0 : o-ring abutment driver (code : AORD)
 - Ø5.0/6.0 : octa abutment driver (code : ODSL/ODSS)
- Recommended tightening torque : 30Ncm (mini/regular)
- Packing unit : Abutment + Carrier



Abutment + carrier order code
 : Product code + P (ex : GSCA5030 P)

D Ø4.0



G/H	1.0	2.0	3.0	4.0	5.0
					-
	GSCA 4010	GSCA 4020	GSCA 4030	GSCA 4040	-

D Ø4.0



G/H	1.0	2.0	3.0	4.0	5.0
					-
	GSCAS 4010	GSCAS 4020	GSCAS 4030	GSCAS 4040	-

Convertible Abutment

D Ø 5.0



G/H	1.0	2.0	3.0	4.0	5.0
	GSCA 5010	GSCA 5020	GSCA 5030	GSCA 5040	GSCA 5050

D Ø 6.0



G/H	1.0	2.0	3.0	4.0	5.0
	GSCA 6010	GSCA 6020	GSCA 6030	GSCA 6040	GSCA 6050

Convertible Abutment

Components

Convertible Combination Cylinder

- Used for producing combination prosthesis in convertible abutment
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Cylinder + EbonyGold cylinder screw

Abutment + EbonyGold screw order code
: Product code + WH (ex : GSCC5070T WH)



Mini



Regular

D \ H	7.0			
	Type	Hex	Non-Hex	Octa
Ø 4.0 / Ø 4.0		GSCC 4070T	GSCC 4070TN	-
Ø 5.0	-	-	-	GSCC 5070T
Ø 6.0	-	-	-	GSCC 6070T

EbonyGold screw
: GSFSM (Ø 4.0 / Ø 4.0)
: GSFSR (Ø 5.0 / Ø 6.0)

Convertible Angled Cylinder

- Used for producing combination prosthesis in convertible abutment
- Prosthetic path adjusted up to 17°
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Cylinder + EbonyGold cylinder screw

Abutment + EbonyGold screw order code
: Product code + WH (ex : GSAC5080T WH)



Mini



Regular

D \ H	8.0			
	Type	Hex	Non-Hex	Octa
Ø 4.0 / Ø 4.0		GSAC 4080T	GSAC 4080TN	-
Ø 5.0	-	-	-	GSAC 5080T
Ø 6.0	-	-	-	GSAC 6080T

EbonyGold screw
: GSFSM (Ø 4.0 / Ø 4.0)
: GSFSR (Ø 5.0 / Ø 6.0)

Convertible GoldCast Cylinder

- Abutment for producing screw-retained prosthesis in convertible abutment
- Used to produce customized prosthesis by casting with gold alloy
- Cylinder melting temperature : 1400~1450°C
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Cylinder + EbonyGold cylinder screw

Abutment + EbonyGold screw order code
: Product code + WH (ex : GSGC500 WH)



Mini



Regular

D \ H	12			
	Type	Hex	Non-Hex	Octa
Ø 4.0 / Ø 4.0		GSGC 400	GSGC 400N	-
Ø 5.0	-	-	-	GSGC 500
Ø 6.0	-	-	-	GSGC 600

EbonyGold screw
: GSFSM (Ø 4.0 / Ø 4.0)
: GSFSR (Ø 5.0 / Ø 6.0)

Convertible Abutment Components

Convertible Temporary Cylinder

- Abutment for producing temporary prosthesis in convertible abutment (Ti Gr-3)
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Cylinder + Ti cylinder screw

Abutment + Ti screw order code
: Product code + TH (ex : GSCTC500T TH)



D \ H	12		
	Type	Hex	Non-Hex
Ø 4.0 / Ø 4.0	GSCTC 400T	GSCTC 400NT	-
Ø 5.0	-	-	GSCTC 500T
Ø 6.0	-	-	GSCTC 600T

Ti screw
: GSFSMT (Ø 4.0 / Ø 4.0)
: GSFSRT (Ø 5.0 / Ø 6.0)

Convertible Pick-up Impression Coping

- Components fixture level impression
- Convertible abutment pick up impression coping
- Hand tightened with a 1.2 hex driver
- Packing unit : Impression coping body + Guide pin(*)



D \ L	Guide Pin	
	0	5.0
Ø 4.0 / Ø 4.0	GSPIC 400 (Hex / Yellow)	-
Ø 5.0	GSPIC 500 (Octa / Silver)	GSCGP 400S GSCGP 400L*
Ø 6.0	GSPIC 600 (Octa / Blue)	GSCGP 500S GSCGP 500L*

Convertible Plastic Cylinder

- Abutment for producing screw-retained prosthesis in convertible abutment
- Used to produce customized prosthesis by casting with non precious metal alloy
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : Cylinder + EbonyGold cylinder screw

Abutment + EbonyGold screw order code
: Product code + WH (ex : GSCPL500 WH)



D \ H	12		
	Type	Hex	Non-Hex
Ø 4.0 / Ø 4.0	GSCPL 400	GSCPL 400N	-
Ø 5.0	-	-	GSCPL 500
Ø 6.0	-	-	GSCPL 600

EbonyGold screw
: GSFSM (Ø 4.0 / Ø 4.0)
: GSFSR (Ø 5.0 / Ø 6.0)

Convertible Transfer Impression Coping

- Transfer impression coping for convertible abutment
- Hand tightened with a 1.2 hex driver
- Packing unit : Impression coping body + Guide pin



D	
Ø 4.0 / Ø 4.0	GSTIC 400 (Hex / Yellow)
Ø 5.0	GSTIC 500 (Octa / Silver)
Ø 6.0	GSTIC 600 (Octa / Blue)



Convertible Abutment Components

Convertible Protect Cap





- Protect cap for convertible abutment
- Hand tightened with a 1.2 hex driver
- Packing unit : Protect cap + EbonyGold screw

Abutment + EbonyGold screw order code

: Product code + WH (ex : GSCHC500 WH)

M Mini

R Regular

				
∅ 4.0 / ∅ 4.0	GSCHC 400 (Hex)	-	-	
∅ 5.0	-	GSCHC 500 (Non-octa)	-	
∅ 6.0	-	-	GSCHC 600 (Non-octa)	

EbonyGold screw
 : GFSM (∅ 4.0 / ∅ 4.0)
 : GFSR (∅ 5.0 / ∅ 6.0)

Convertible Lab Analog

- Lab analog for convertible abutment
- Hand tightened with a 1.2 hex driver

M Mini

R Regular




			
∅ 4.0 / ∅ 4.0	GSCLA 400 (Hex)	-	-
∅ 5.0	-	GSCLA 500 (Octa)	-
∅ 6.0	-	-	GSCLA 600 (Octa)

Convertible Polishing Protector

- Protecting GoldCast/plastic cylinder joints during polishing process
- Hand tightened with a 1.2 hex driver

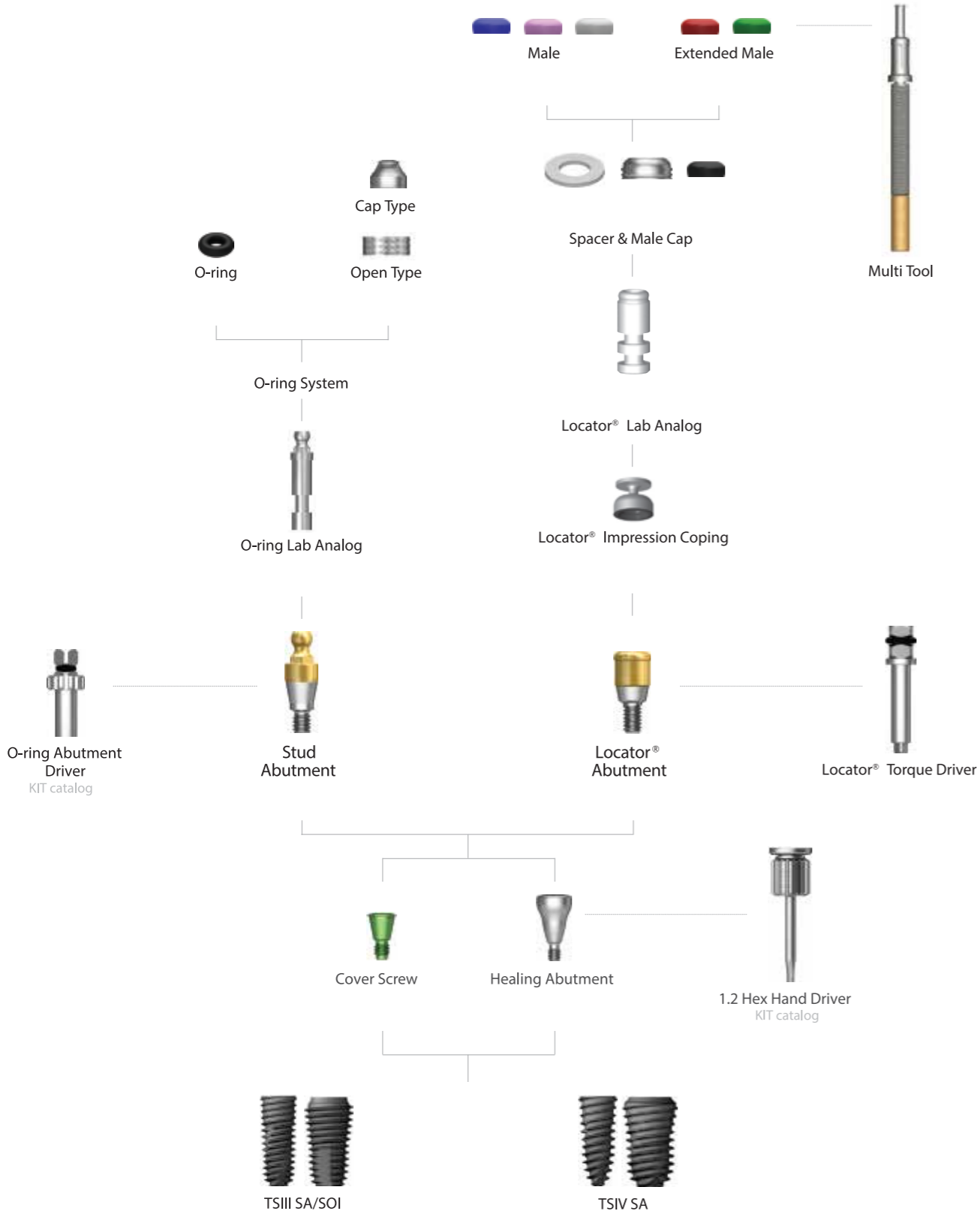
M Mini

R Regular

			
∅ 4.0 / ∅ 4.0	GSCPC 400 (Hex)	-	-
∅ 5.0	-	GSCPC 500 (Octa)	-
∅ 6.0	-	-	GSCPC 600 (Octa)

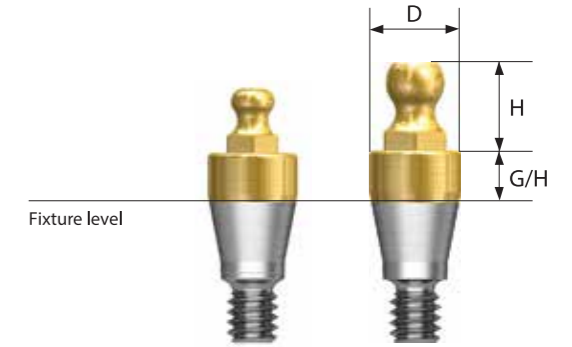
OSSTEM[®]
IMPLANT

Stud / Locator® Overdenture



Stud Abutment

- Abutment with o-ring attachment for overdenture
- Placement angle compensation up to 20°
- Tightened with a dedicated outer driver (code : AORD)
- Recommended tightening torque : 30Ncm (mini/regular)
- Ball head diameter
 - Small size : $\varnothing 1.7$ (H 2.5mm)
 - Normal size : $\varnothing 2.25$ (H 3.4mm)



D $\varnothing 3.5$

M

G/H	1.0	2.0	3.0	4.0	5.0	6.0
Small Size						
Normal Size	GSST 3510M	GSST 3520M	GSST 3530M	GSST 3540M	GSST 3550M	GSST 3560M
	GSSAM 3510	GSSAM 3520	GSSAM 3530	GSSAM 3540	GSSAM 3550	GSSAM 3560

D $\varnothing 3.5$

R

G/H	1.0	2.0	3.0	4.0	5.0	6.0
Small Size						
Normal Size	GSST 3510R	GSST 3520R	GSST 3530R	GSST 3540R	GSST 3550R	GSST 3560R
	GSSA 3510	GSSA 3520	GSSA 3530	GSSA 3540	GSSA 3550	GSSA 3560

Stud Abutment Components

O-ring Retainer Cap Set

- O-ring attachment for stud abutment
- O-ring replaced in metal housing
- Packing unit : Retainer cap + O-ring



O-ring Retainer Set

- Used when vertical dimension is shorter than the retainer cap
- Packing unit : Retainer cap + O-ring



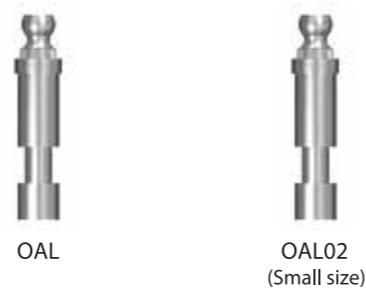
O-ring Set

- O-ring set
- Packing unit : O-ring 5ea



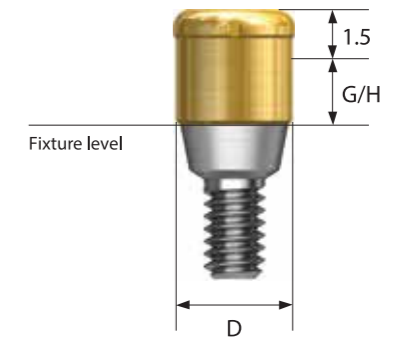
O-ring Lab Analog

- Lab analog for O-ring abutment
- Packing unit : O-ring 5ea



Locator® Abutment

- Genuine zest anchors abutment
- Placement angle compensation up to 40°
- 1.5mm lower profile, attachment with various and stable retention forces
- Tightened with a dedicated outer driver (code : TWLDLK/TWLDLSK)
- Recommended tightening torque : 30Ncm



D Ø 3.7

M



D Ø 3.7

R



Locator® Abutment Components

Locator® Male Processing Kit

- Components
 - Block out spacer/denture cap connected black processing male
 - Replacement male blue/pink/clear
- Used by selecting the male with the adequate retention force for each case
- Locator core tool for replacing the male
- Packing unit : 2sets



Locator® Black Processing Male

- Male used in prosthesis fabrication process
- Packing unit : 4ea



Locator® Replacement Male

- Retention force : Approx. 6N
- Placement angle compensation up to 20°
- Packing unit : 4ea



- Retention force : Approx. 12N
- Placement angle compensation up to 20°
- Packing unit : 4ea



- Retention force : Approx. 22N
- Placement angle compensation up to 20°
- Packing unit : 4ea



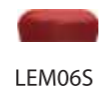
Locator® Block Out Spacers

- Used for sealing of the space between the abutment and the denture cap when attaching the overdenture and denture cap in the oral cavity
- Packing unit : 20ea



Locator® Extended Replacement Male

- Retention force : Approx. 6N
- Placement angle compensation up to 20~40°
- Packing unit : 4ea



- Retention force : Approx. 12N
- Placement angle compensation up to 20~40°
- Packing unit : 4ea



Locator® Impression Coping

- Pick-up impression coping for locator abutment
- Closed tray
- Packing unit : Impression coping + Provisional male 1set



Locator® Lab Analog

- Lab analog for locator abutment
- Packing unit : 2ea



Locator® Abutment Components

Locator® Core Tool

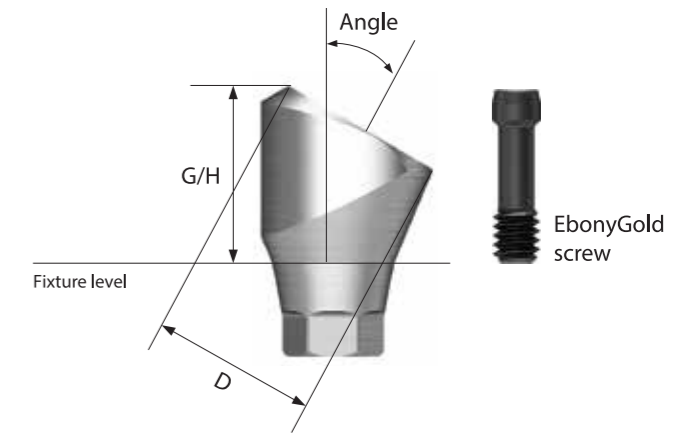
- Used for placing and removing the replacement male in the denture cap
- Separated into three pieces and used as a hand driver for locator abutment



Port Angled Abutment

- Used for placement angle compensation in overdenture
- Abutment level impression
- Placement angle compensation up to 60°
- Tightened with a 1.2 hex driver
- Recommended tightening torque : 20Ncm (mini), 30Ncm (regular)
- Packing unit : Abutment + EbonyGold screw

Abutment + EbonyGold screw order code
: Product code + WH (ex : TS30PA455R WH)



Locator® Torque Driver

- Torque driver for locator abutment



D Ø4.6



EbonyGold screw : GSMABSM

Angle \ G/H	4.0	5.0
10°	TS10PA 454M	TS10PA 455M
17°	TS17PA 454M	TS17PA 455M
30°	TS30PA 454M	TS30PA 455M

Port Angled Abutment

D Ø4.6



EbonyGold screw
: GSMABSS

Angle \ G/H	4.0	5.0
10°	 TS10PA 454R	 TS10PA 455R
17°	 TS17PA 454R	 TS17PA 455R
30°	 TS30PA 454R	 TS30PA 455R

Port Angled Abutment

Components

Port Angled Abutment Head

- Head connected to a Port Angled Abutment
- Torque using locator torque driver
- Recommended tightening torque : 20Ncm
- Packing unit : Abutment head + Carrier

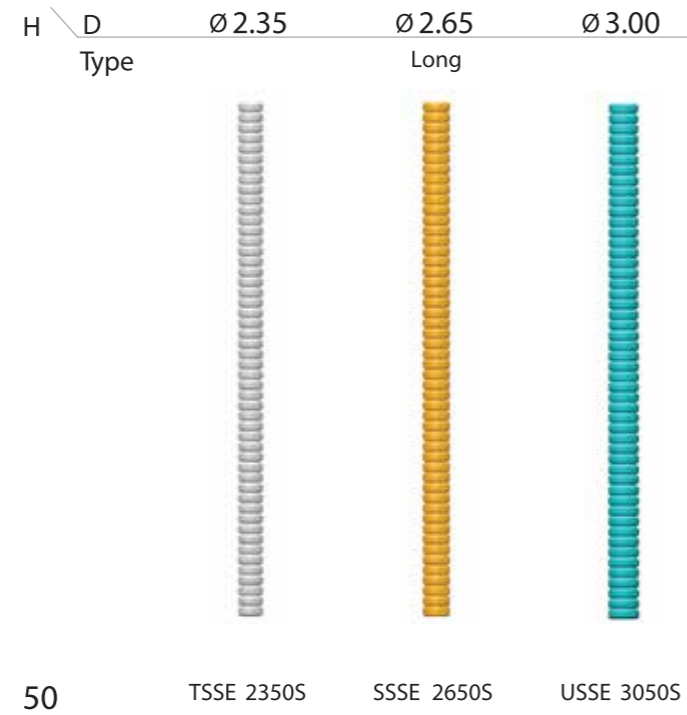


PTAAH450P

OneSeal

OneSeal

- Disposable medical devices for internal filling of superstructure
- Cut to desired length (medical silicone)
- Packing unit : short 10ea / long 5ea
- TS regular, US mini : TSSE2350S
- SS regular, US regular : SSSE2650S
- US wide : USSE3050S



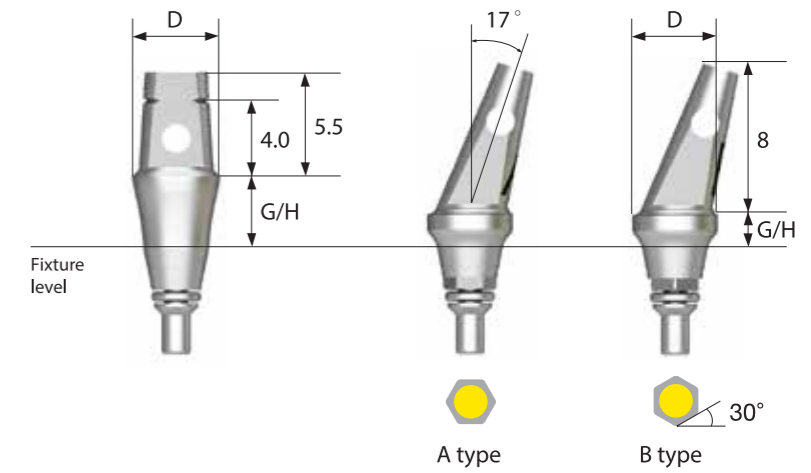
TS Abutment Selector

- Component accessory; the ability to predict the final abutment specification
- Rigid, transfer, angled abutment limited
- PSU ring combination allows manual tightening and removal
- Hole for oral drop prevention

KIT order code : TSKCA (selection KIT)

M Mini (Yellow)

R Regular (Green)



Straight Type

G/H	2.0	4.0
Ø 4.0	TSSS 4020	TSSS 4040
Ø 4.5	TSSS 4520	TSSS 4540
Ø 5.0	TSSS 5020	TSSS 5040
Ø 6.0	TSSS 6020	TSSS 6040

Angled Type

G/H	2.0		4.0	
Type	Hex A	Hex B	Hex A	Hex B
Ø 4.0	TSSA 4020A	TSSA 4020B	TSSA 4040A	TSSA 4040B
Ø 4.5	TSSA 4520A	TSSA 4520B	TSSA 4540A	TSSA 4540B
Ø 5.0	TSSA 5020A	TSSA 5020B	TSSA 5040A	TSSA 5040B

Scan Healing Abutment

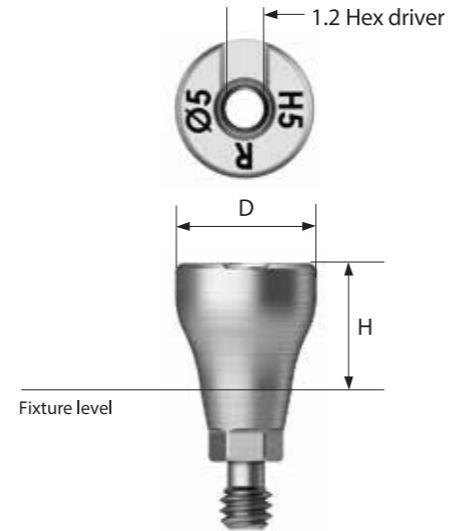
- Healing abutment with scan body function
- Specification by top maker shape (refer to table below)
- Abutment level impression
- Using a carrier, the scan healing abutment can be easily transported in the mouth
- Having screw for each length (not interchangeable)
- Hand tightened with a 1.2 hex driver
- Packing unit : Healing abutment body + screw

Abutment + Ti screw order code
 : Product code + TH (ex : TSSHA505R TH)

- M** Mini
- R** Regular

Matching table

Healing abutment	H	3.0	4.0	5.0	7.0
Abutment	G/H	1.0	2.0 or 3.0	3.0 or 4.0	5.0 and above
Impression coping	Type	Short	Short	Long	Long



Scan Healing Abutment

Components

Scan Healing Abutment Carrier

- Scan healing abutment is delivered in the oral cavity
- Selected according to body diameter
- Material : PEEK



D \ H	3.0	4.0	5.0	7.0
*Partial Side Cut	TSSHA 403M Ø 4.0	TSSHA 404M Ø 4.5	TSSHA 405M	TSSHA 407M
	TSSHA 453M	TSSHA 454M	TSSHA 455M	TSSHA 457M

D \ H	3.0	4.0	5.0	7.0
*Cut to the Hole	TSSHA 403R Ø 4.0	TSSHA 404R Ø 4.5	TSSHA 405R	TSSHA 407R
	TSSHA 453R	TSSHA 454R	TSSHA 455R	TSSHA 457R
	TSSHA 503R	TSSHA 504R	TSSHA 505R	TSSHA 507R
	TSSHA 603R	TSSHA 604R	TSSHA 605R	TSSHA 607R
	TSSHA 703R	TSSHA 704R	TSSHA 705R	TSSHA 707R

Osstem Implant System product description

Osstem Implant offers a variety of dental bone graft materials, as well as fixtures made of medical grade titanium. Osstem Implant's abutments, prosthetic materials and surgical tools are only compatible with Osstem Fixtures. If used with products of other manufacturers, it may cause problems including loosening and fractures due to incomplete tightening and compatibility. For more details about any individual product, please refer to the user manual, catalog or visit our company website (www.osstem.com). Please check the product labels for product codes, specifications, date of manufacture and expiration date.

Sterilization

Fixtures, cover screws and Healing Abutments are pre-cleaned and sterilized by gamma rays. These products are sterile, disposable medical instruments and must be handled in a sterile field using sterilized tools to prevent contamination and infection of the product or treatment area. If the package has been opened, damaged or has expired, the product must be discarded due to the risk of contamination, infection and bone graft failure. If re-sterilized or re-used, the product may result in infection, osseointegration failure, and damage to implants due to reduced precision.

Storage conditions

Store in a dry place at room temperature (1~30°C). Keep away from direct sunlight.

General precautions

Warning! Implant surgical techniques involves professional and complex processes. To perform dental implant surgery, relevant formal training and education is required. If the patient has bone disease (osteoporosis, osteomalacia) or metabolic bone disorders, special considerations should be given to these conditions prior to surgery.

Precautions

Suitability of bone and proper surgical procedures should be taken into account when determining an implant surgery. Proper implant should be prepared in consideration of anticipated situations and precautions. Excessive occlusal load may cause loosening or fracture of an implant. In order to avoid this condition, the implant must be placed in accurate location and direction considering the relationship between the implant and opposing dentition. Visual inspection as well as radiographic examinations are essential to determine basic presurgical information, occlusal conditions and adequacy of the bone. Adequate radiographs, surgical planning and visual inspection of the implant site are required prior to implant surgery.

Procedural precautions

Osstem Implant System is for single- or two-stage procedure. Special attention should be paid to temperature, surgical lesions and removal of the sources of contamination and infection in an attempt to minimize damage to the cell tissue. All drills and taps must be continuously and sufficiently irrigated for cooling. Implant placement should be accomplished at very low speed (25~30 rpm) or manually. Excessive torque (greater than 55Ncm) can have adverse effects such as partial fracture or necrosis of the bone. Placing an implant tilted by 30° or higher is not recommended due to possible fracture or implant. Immediate loading to the fixture right after the surgery should be avoided. The bone quality and initial stability after fixture placement are important elements in determining the appropriate loading time. Mini-diameter implant or implant with diameter of 4.0 or less which integrates with Angled Abutment may be fractured due to limitations of structural rigidity. They are not recommended for use in a posterior area. Ultra-wide Fixtures are intended to be used only in the posterior region and should not be used with Angled Abutments.

If considering the Ultra-wide fixtures, radiographic evaluation should be performed to determine the bone mass and potential anatomical restrictions. Short implants (diameter greater than 5mm, shorter than 7mm) are only used for the posterior region. Clinicians must thoroughly examine the patient for any of the following conditions: 1) Peri-implant bone loss, 2) Changes to implant's response to percussion, 3) Vertical changes in the osseointegrated fixtures determined by X-ray. If a short implant shows loosening or greater than 50% bone loss, the implant should be considered for possible removal. Clinicians should consider a two-stage surgical approach, splinting with other implants and placement of the widest possible diameter fixture. Allow sufficient healing time for osseointegration before prosthesis and avoid immediate loading. Products with diameter of 3.25mm or less must be used exclusively for mandibular anterior teeth in order to prevent fracture due to excessive occlusal load. Avoid applying HA-coated fixtures to hard bone because damage and cracks might occur in the coated layer. It is recommended that the insertion torque of the implant be less than 35Ncm. The surfaces of CA and SOI have the same physical shape as the SA surface made through blasting and etching treatments. These surfaces are designed to maintain the SA surface chemically-activated by encasing CA in a solution and SOI in a hydrophobic coating after the SA surface treatment to prevent the product from being exposed to air. Thus, CA or SOI products should be placed in the target region at least within 15 minutes after removal from the vial.

Warning

Improper patient selection and treatment planning may result in dental implant failure or loss of bone supporting the implant. Osstem Implant System must not be used for purposes other than intended and must not be altered in any shape or form. Implant loosening, bone loss and chronic infections can result in implant failure.

Indications for use

Osstem Implant System is an artificial dental root that has been designed for use in dental implant treatment for restoring missing teeth. It can be placed via surgical procedures in maxillary or mandibular bone to replace natural dental root. The System is intended for use in fabricating temporary or final appliances in the form of cement-retained, screw-retained, overdenture and fixed-bridge to replace a single tooth or multiple teeth in the maxillary/mandibular region or for partially or fully edentulous patients. Products with diameter of 3.25mm or less must be used exclusively for mandibular anterior teeth in order to prevent fracture due to excessive occlusal load.

Side effects

There are possible side effects after implant surgery (loss of implant stability, damaged prosthesis, etc.). These issues can be caused by the lack of available bone or poor bone quality, infection, patient's poor oral hygiene or non-compliance with post-op procedures, allergic reaction, movement of the implant, degradation of surrounding tissue, or improper placement/arrangement of the implant.

Contraindications

Contraindications include the following, but are not limited to:

- Patients with hemophilia or issues related to bone or wound treatment
- Patients with uncontrollable diabetes or patients that smoke or drink excessively
- Patients with compromised immune systems due to disease or chemo/radiation therapy
- Patients with oral infection or inflammation (improper oral hygiene or bruxism)
- Patients with incurable malocclusion/joint disorder and insufficient dental arch space
- Patients who are not suitable for surgery.

OSSTEM[®]
IMPLANT

Manufacturer : Osstem Implant Co., Ltd.
203, Geoje-daero, Yeonje-gu, Busan, Korea
TEL 82-51-850-2500 FAX 82-51-861-4693



2460



Sterilized using irradiation



Use by



Manufacture



DEUTSCHE OSSTEM GmbH.

Mergenthalerallee 25
65760 Eschborn, Germany
+49-(0)6196-777-550



Do not reuse



Date of manufacture



Keep away from sunlight



Do not use, if package is damaged



Catalogue number



Non-Sterile



Keep dry

Rx only

For USA only : Federal law restricts this device to sale by or on the order of a dentist



Batch code



Do not re-sterilize



Caution, Consult accompanying documents

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