

# TS SYSTEM CATALOG

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## CEO's Message

**Providing cutting  
edge technology and  
superior quality**

Making products that dentists want to use,  
trust, and are satisfied with :  
This is our mission at **OSSEM IMPLANT**



Thank you for using Osstem Implant. Osstem, Korea's first implant manufacturer, has secured world-class implant competitiveness through continuous R&D investment and quality innovation.

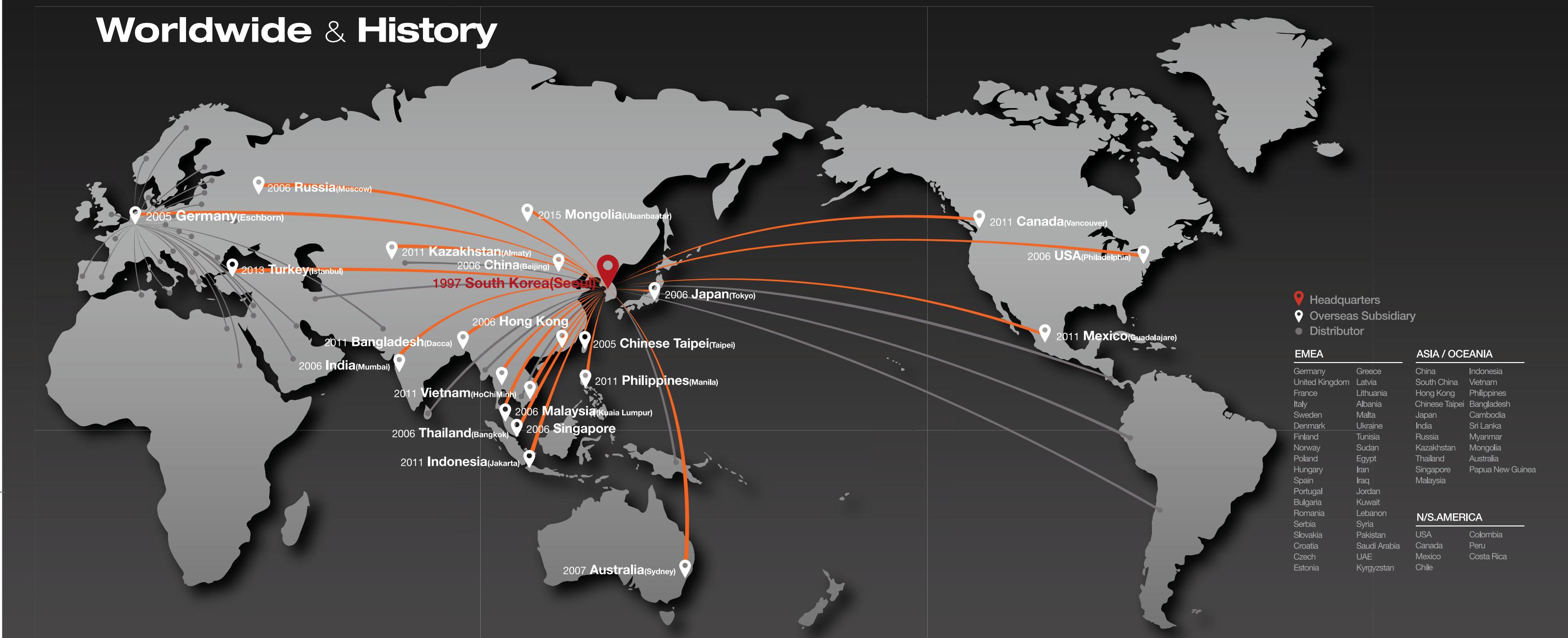
It has grown to become Asia-Pacific No.1 and World No.5 Implant Company. In addition to dental implants and treatment tools, we are leading the development of products that are essential for dentists, including dental equipment, dental materials, and dental IT, and contribute to the development of the dental industry. The comprehensive catalog of the 2018-19 product series published here shows Osstem's technology-rich products. We have focused on catalog structure so that it is convenient to browse and order products. In particular, in the case of fixtures, abutments, and surgical tools, we introduced the diameter, length, and functions in detail.

**We are forever grateful  
to all the dentists  
who have given  
unwavering support to  
OSSTEM IMPLANT**

GBR products are also easy to order by type, size and capacity. In addition, the product release date and time are displayed so that customers can understand when the existing product is released and what the newly released product is. We also introduced the CAD/CAM product in terms of preparing the digital dentistry, a major trend in the dentistry. In terms of design, we also implemented high-quality images of representative products by specification. By applying representative colors for each product system, it is easy to sort by category. We hope this will help you effectively find and purchase the products you need from the dental clinic of 2018-19. Osstem Implant will continue to develop products that the dentist can trust. We will work to create greater customer value. Thank you.

CEO of OSSTEM IMPLANT  
Choi Kyu-ok (DDS.Ph.D)

# Worldwide & History

**1997**

- 01 Established 'Osstem Co., Ltd.'
- 12 Released 'Doobunae' (health insurance claim application software program)

**2001**

- 01 Obtained CE-0434 certification
- 03 Established AIC training center

**2006**

- 03 Changed the company name to Osstem Implant Co., Ltd
- 04 Obtained GOST-R certification (russia)
- 12 Established 12 overseas branches (first round)

**2008**

- 01 Established osstem bone science research center
- 12 Selected as a managing organization for the national strategic technology development project

**2010**

- 03 Launched TSIII SA line
- 06 Launched TSIII HA line

**2012**

- 06 Launched TSIII CA line
- 07 Established osstem dental equipment research institute

**2014**

- 05 Selected as 'World Class 300'
- 05 Released 'HyFlex', an impression material
- 08 Released 'BeauTis' whitening material

**2016**

- 01 Established Vussen Co., Ltd.
- 03 Acquired Cardiotec Co., Ltd.
- 08 Acquired Hubit Co., Ltd.
- 11 Launched OneGuide system

**2000**

- 06 Released 'Hanaro' (dentistry management software)
- 10 Acquired sumin comprehensive dental materials

**2002**

- 01 Established Osstem Implant R&D center
- 08 Obtained FDA certification, launched USII line
- 10 Launched SSII line

**2007**

- 02 Listed on KOSDAQ and began trading publicly
- 06 Selected as No.1 products for the next generation and obtained TGA certification (australia)

**2009**

- 10 Obtained approval for medical device manufacturing and sale from the ministry of health, labor and welfare, japan

**2011**

- 06 Osstem Implant R&D center was selected as ATC (advanced technology center)
- 07 Selected as 'World Champ' business
- 12 Launched 'K2 unit chair', which was selected as a 'World Class Product'

**2013**

- 01 Launched osstem xenograft material 'A-Oss'
- 09 Launched 'K3 unit chair'
- 10 Selected as a 'Hidden Champion' company

**2015**

- 03 Established Osstem BioPharma Co., Ltd.
- 12 Awarded 'USD 50 Million Export Tower'

**2017**

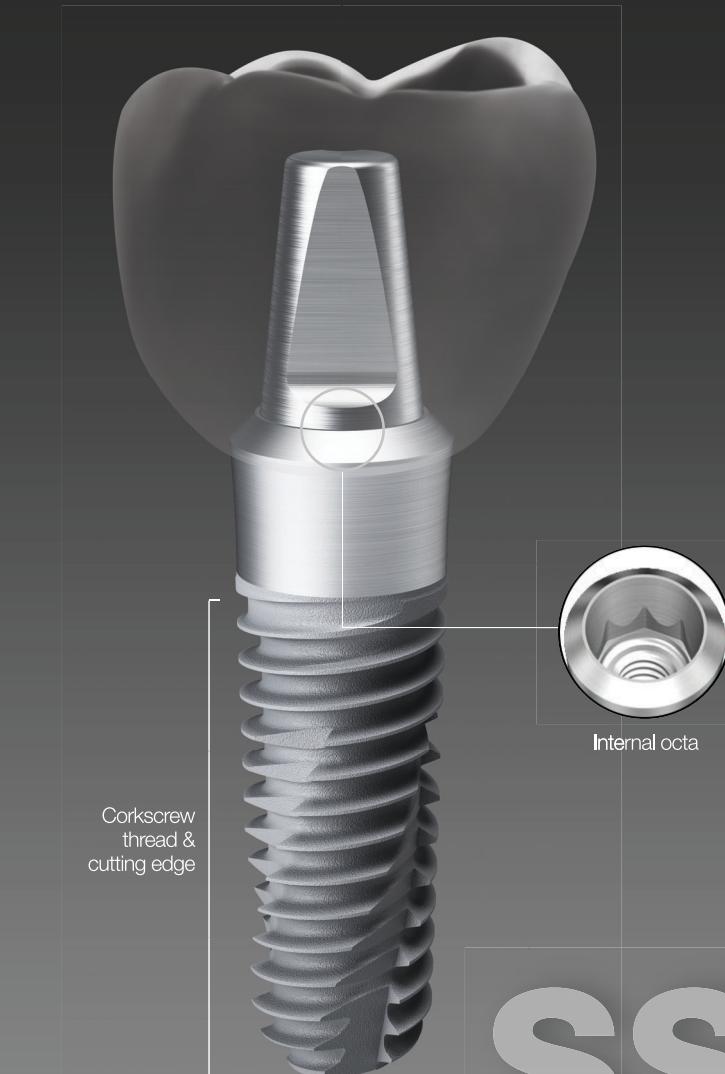
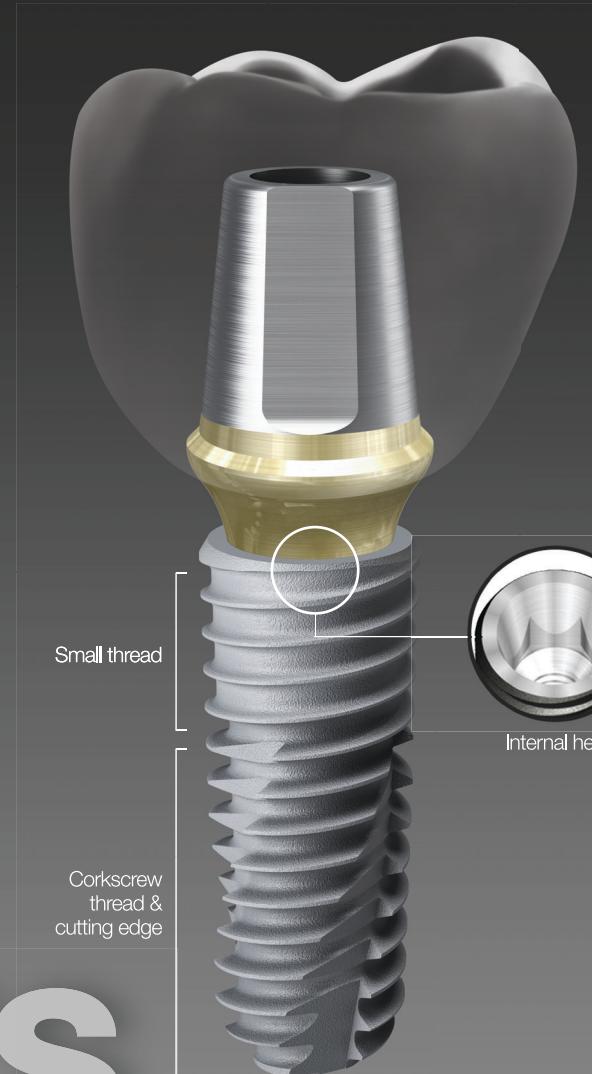
- 12 2017 presidential commendation for job creation

**2018**

- 01 TS exceeded 10 million production

# OSSTEM® Implant Design feature

**OSSTEM IMPLANT** has revolutionized implant dentistry in South Korea. With a focus on aggressive R&D, a commitment to education and a dedication to manufacturing the best products, Osstem Implant's ultimate goal is to become the global leader in implant dentistry.



## Submerged type implant with an internal hex and 11°tapered connection

- Internal connection type - Mini / Regular
- Excellent initial stability in soft bone due to smaller threads in the upper section
- Corkscrew thread with cutting edges
  - Strong self-threading effect for easy fixture path
  - Higher initial stability and consistent insertion torque
- Different body types to properly match the patient's bone quality and clinical condition
  - TSII (straight body) : easy to adjust depth
  - TSIII (1.5° tapered body) : excellent initial stability necessary for immediate loading, even in soft bone
  - TSIV (6° tapered body) : specifically designed for the maxillary sinus and soft bone, excellent initial stability
- Available surface types - SA / CA / HA / BA / SOI



Each implant system has its own unique color code

## Non-submerged type implant with an internal octa and 8°tapered connection

- Internal connection type - Regular / Wide
- Corkscrew thread with cutting edges
  - Strong self-threading effect for easy fixture path
  - Higher initial stability and consistent insertion torque
- Different body types to properly match the patient's bone quality and clinical condition
  - SSII (straight body) : easy to adjust the insertion depth
  - SSIII (1.5° tapered body) : excellent initial stability necessary for immediate loading, even in soft bone
- Available surface types - SA / CA / HA / BA

## Submerged type implant with an external hex connection structure

- Internal connection type - Mini / Regular / Wide / Wide PS
- Corkscrew thread with cutting edges
  - Strong self-threading effect for easy fixture path
  - Higher initial stability and consistent insertion torque
- Different body types to properly match the patient's bone quality and clinical condition
  - USII (straight body) : easy to adjust the insertion depth
  - USIII (1.5° tapered body) : excellent initial stability necessary for immediate loading, even in soft bone
  - USIV (6° tapered body) : specifically designed for the maxillary sinus and soft bone, excellent initial stability
- Available surface types - SA / CA

# OSSTEM® Implant Surface feature

The key factor in providing implant treatment safely and efficiently is surface technology.

**OSSTEM IMPLANT** is proud of its cutting-edge surface technology.

## Acid Treated Optimized Surface

- Ra 2.5~3.0 $\mu\text{m}$  surface roughness  
(note : the upper 0.5mm part of the implant has Ra 0.5~0.6 $\mu\text{m}$ )
- Consistent surface micro pits between 1 to 3 $\mu\text{m}$
- Surface area is increased by 46 percent compared to RBM treated implants

## In-vitro & In-vivo Bone Response

- 20% improvement in osteoblast separation and ossification compared to RBM
- Initial bone reaction performance in animal model (mini-pig)
- 48% improvement in initial stability (RT, 4 weeks) compared to RBM
- 20% improvement in ossification (BIC, 4 weeks) compared to RBM

## Super-hydrophilic SA surface suspended in a calcium solution

- Same SA surface morphology
- Optimizing surface reaction by suspension in a calcium (CaCl2) solution
- Increased new bone formation area due to the excellent blood wettability
- Bone response improved in early osseointegration stage compared to standard SA surface

## In-vitro & In-vivo Bone Response

- Protein and cellular adhesion tripled compared to SA surfaces
- Initial cellular differentiation by 19 percent compared to SA surfaces (7 days)
- Initial stability increased by 34 percent compared to SA surfaces (RT at 4 weeks)
- Ossification rate Increased by 26 percent compared to SA surfaces (BIC at 4 weeks)

## Premium high-crystalline HA-coated surface

- 30 to 60 $\mu\text{m}$  thick high-crystalline HA coating
- HA coated onto a RBM surface (Ra 3.0 to 3.5 $\mu\text{m}$ )
- High HA crystalline over 98 percent
- Solved the problem with low-crystalline HA resorption

## In-vitro & In-vivo Bone Response

- Excellent biocompatibility in HA that is similar to bone
- Initial ossification by osteoblasts doubled compared to SA surfaces (5 days)
- 40% improvement in initial stability (RT, 4 weeks) in animal models compared to SA
- Suitable for poor bone quality, tooth extraction sites or immediate implant insertion

## Premium low crystalline nano-HA coated SA surface

- SA surface (Ra 2.5 to 3.0 $\mu\text{m}$ ) coated with HA
- 10nm ultra-thin HA coating
- Dual function between titanium and HA
- HA is naturally resorbed during ossification

## In-vitro & 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 a poor bone quality
- 40% improvement in ossification (BIC) compared to SA
- It is applicable to all types of bone quality

## Next-generation surface coated with special material (K material)

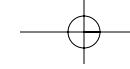
- Activation of blood clot formation
- Avoid carbon adsorption in air
- Coating of K material on SA surface (Ra 2.0~3.0 $\mu\text{m}$ )
- Superior blood wettability with super hydrophilic surface.

## In-vitro & In-vivo Bone Response

- Protein and cellular adhesion 130 times increase compared to SA surface
- Initial stability increased by 57 percent compared to SA surfaces (RT at 4 weeks)
- Surface with the shortest duration of surgery

# TS SYSTEM Contents

016 TSII SA Fixture		018 TSIII SA Fixture		020 TSIV SA Fixture		022 Simple Mount		022 Cover Screw				062 Multi Abutment Outer Driver		062 Multi Abutment Machine Driver		062 Multi Abutment NP-Cast Cylinder		063 Multi Combination Cylinder		064 Multi Angled Abutment	
023 Healing Abutment		024 Custom Healing Abutment		027 Rigid Abutment		030 Rigid Protect Cap		030 Rigid Retraction Cap				067 Convertible Abutment		069 Convertible Combination Cylinder		069 Convertible Angled Cylinder		069 Convertible GoldCast Cylinder		070 Convertible Temporary Cylinder	
030 Rigid Impression Coping		031 Rigid Burn-out Cylinder		031 Rigid Lab Analog		032 Transfer Abutment		036 Bite Index				070 Convertible Plastic Cylinder		071 Convertible Pick-up Impression Coping		071 Convertible Transfer Impression Coping		072 Convertible Protect Cap		072 Convertible Lab Analog	
037 Fixture Pick-up Impression Coping		038 Fixture Transfer Impression Coping		039 Laboratory Screw		039 Fixture Lab Analog		041 Angled Abutment				072 Convertible Polishing Protector		075 Stud Abutment		076 O-ring Retainer Cap Set		076 O-ring Retainer Set		076 O-ring	
043 FreeForm ST Abutment		045 GoldCast Abutment		046 NP-Cast Abutment		049 OneFit Abutment		049 Scan Boby				076 O-ring Lab Analogs		077 Locator® Abutment		078 Locator® Male Processing Kit		078 Locator® Replacement Male		078 Locator® Extended Replacement Male	
050 Pre-Milled Abutment		051 Link Abutment for Public		052 Link Abutment for Cerec		053 Scan Post		053 Scan Body				079 Locator® Black Processing Male		079 Locator® Block Out Spacers		079 Locator® Impression Coping		079 Locator® Lab Analog		080 Locator® Core Tool	
054 ZioCera Abutment		056 ZioCera Angled Abutment		057 Quick Temporary Abutment		059 Temporary Abutment		061 Multi Abutment				080 Locator® Torque Driver		081 Port Angled Abutment		083 Port Angled Abutment Head					



# TS SYSTEM

OSSTEM<sup>®</sup>  
IMPLANT

## FIXTURE

- O16 TSII SA Fixture
- O18 TSIII SA Fixture
- O20 TSIV SA Fixture
- O22 Simple Mount
- O22 Cover Screw
- O23 Healing Abutment
- O24 Custom Healing Abutment

## COMPONENTS

- O26 PROSTHETIC FLOW DIAGRAM 1
- O27 Rigid Abutment
- O32 Transfer Abutment
- O40 PROSTHETIC FLOW DIAGRAM 2
- O41 Angled / FreeForm ST Abutment
- O45 GoldCast / NP-Cast Abutment
- O48 PROSTHETIC FLOW DIAGRAM 3
- O49 OneFit Abutment
- O50 Pre-Milled Abutment
- O51 Link Abutment (for Public / Cerec)
- O54 Ziocera (Angled) Abutment
- O57 Temporary Abutment (Quick)
- O60 PROSTHETIC FLOW DIAGRAM 4
- O61 Multi (Angled) Abutment
- O66 PROSTHETIC FLOW DIAGRAM 5
- O67 Convertible Abutment
- O74 PROSTHETIC FLOW DIAGRAM 6
- O75 Stud / Locator<sup>®</sup> Abutment
- O81 Port Angled Abutment



## TSII SA Fixture

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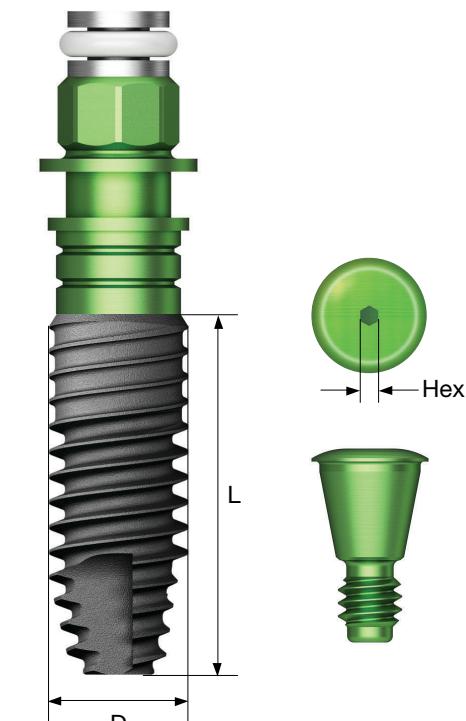
- Submerged type implant with an internal hex and 11° tapered connection
- Optimized screw thread design with the ideal SA surface
- Straight body design allows easy insertion depth adjustments
- Excellent initial stability in soft bone due to small threads in the upper section
- Corkscrew threading with excellent self-threading effect
- Recommended insertion torque : ≤40 Ncm
- ※ Fixtures with a diameter of 4.5mm or more are recommended for the posterior area

**NoMount fixture order code**

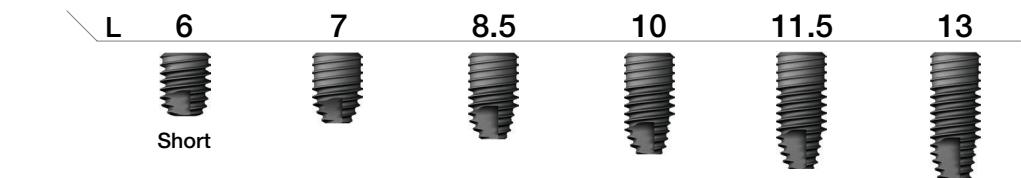
: fixture product code (ex : TS2S4010S)

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

: B + fixture product code (ex : BTS2S4010S)



**D Ø5.0  
Hex 2.5**

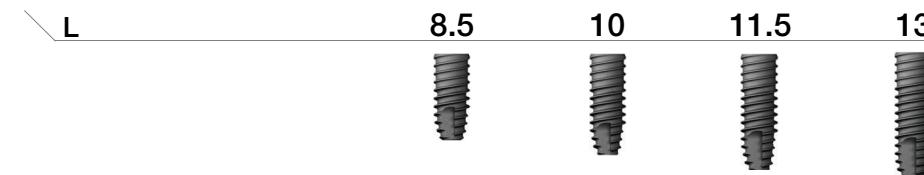


TS2S5006S TS2S5007S TS2S5008S TS2S5010S TS2S5011S TS2S5013S

TS SYSTEM

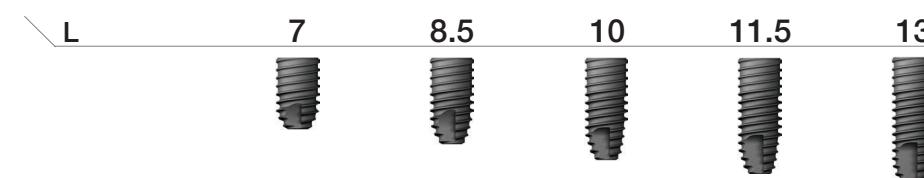
017

**D Ø3.5  
Hex 2.1**



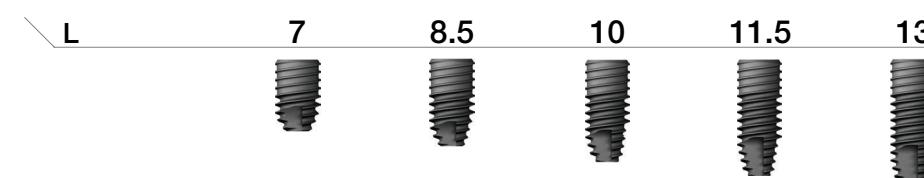
TS2M3508S TS2M3510S TS2M3511S TS2M3513S

**D Ø4.0  
Hex 2.5**



TS2S4007S TS2S4008S TS2S4010S TS2S4011S TS2S4013S

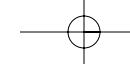
**D Ø4.5  
Hex 2.5**



TS2S4507S TS2S4508S TS2S4510S TS2S4511S TS2S4513S

Nominal and actual diameters may slightly differ

Caution For a short implant, a sufficient healing period is strongly recommended. A short implant should be splinted with another implant when considering prosthetic options.



# TSIII SA Fixture

- A submerged type implant with internal hex and taper connection of 11°
- Optimal screw thread design for optimal SA surface implementation
- Taper body design with excellent initial fixation
- Highest initial stability in soft bone by using upper-part small thread
- Powerful self-threading effect with corkscrew thread
- Acquired initial fixation force for immediate loading in soft bone

## Narrow

- Used in narrow ridge
- Compatible with mini abutment (except cover screw, mount, lab analog)

## Ultra-wide

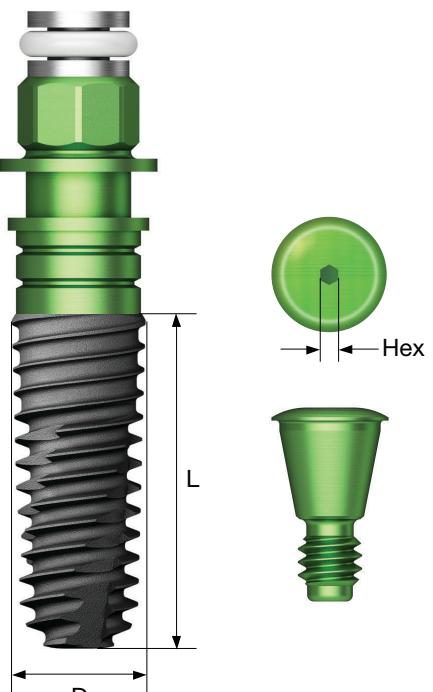
- Useful for posterior extraction and immediate implant placement case, and for replacement of failed implant case
- Optimized apex design ensures stable initial fixation force even at the extraction and bottom 3mm
- Recommended implant placement torque : below 40Ncm
- In posterior single case, recommended at least ø 4.5mm fixture

### NoMount fixture order code

: fixture product code (ex : TS3S4010S)

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

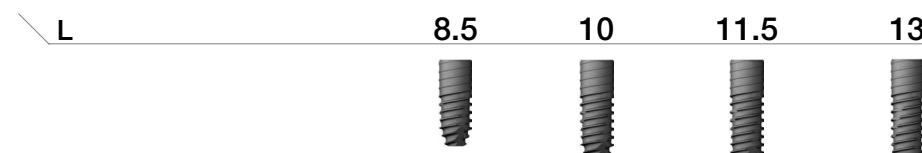
: B + fixture product code (ex : BTS3S4010S)



TS SYSTEM

018

### D ø 3.0 Hex 2.1 Narrow



TS3M3008S TS3M3010S TS3M3011S TS3M3013S

### D ø 3.5 Hex 2.1



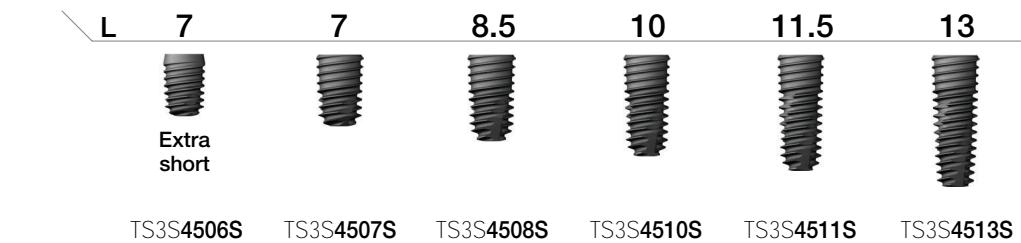
TS3M3508S TS3M3510S TS3M3511S TS3M3513S

### D ø 4.0 Hex 2.5



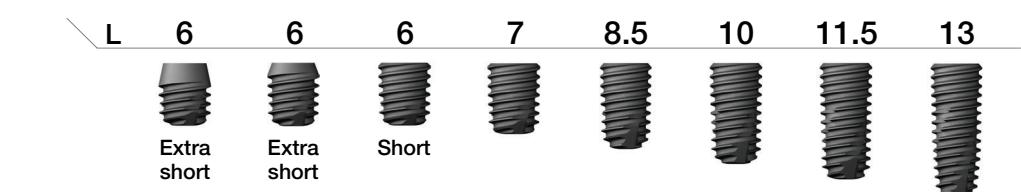
TS3S4006S TS3S4007S TS3S4008S TS3S4010S TS3S4011S TS3S4013S

### D ø 4.5 Hex 2.5



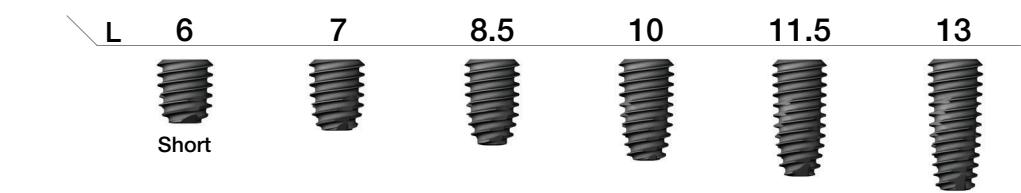
TS3S4506S TS3S4507S TS3S4508S TS3S4510S TS3S4511S TS3S4513S

### D ø 5.0 Hex 2.5



TS3S5004S TS3S5005S TS3S5006S TS3S5007S TS3S5008S TS3S5010S TS3S5011S TS3S5013S

### D ø 5.5 Hex 2.5



TS3S5506S TS3S5507S TS3S5508S TS3S5510S TS3S5511S TS3S5513S

## Ultra-Wide

### D ø 6.0 Hex 2.5



TS3S6006S TS3S6007S TS3S6008S TS3S6010S TS3S6011S TS3S6013S

### D ø 7.0 Hex 2.5



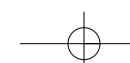
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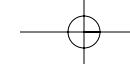
Nominal and actual diameters may slightly differ

Caution For a short implant, a sufficient healing period is strongly recommended. A short implant should be splinted with another implant when considering prosthetic options.

TS SYSTEM

019





# TSIV SA Fixture

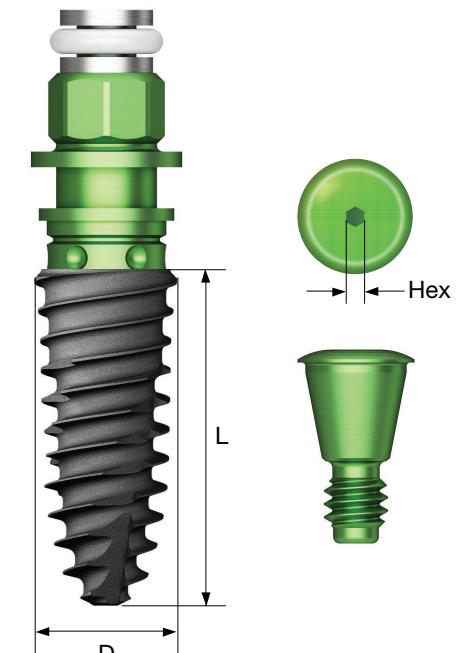
TS SYSTEM

020

- A submerged type implant with internal hex and taper connection of 11°
- Optimal screw thread design for optimal SA surface implementation
- Fixture for maxillary sinus and soft bone
- The effect of improving the initial fixation force in soft bone by applying the upper part small thread
- Powerful self-threading effect with corkscrew thread
- With a sharp apex design, it can be placed after D4 bone 2.0/3.0mm drilling

**Ultra-wide**

- Useful for posterior extraction and immediate implant placement case, and for replacement of failed Implant case
- Optimized apex design ensures stable initial fixation force even at the extraction and bottom 3mm
- Recommended implant placement torque : below 40Ncm
- In posterior single case, fixture with diameter of 4.5mm or more is recommended
- TSIV fixture is recommended to be lowered to 15rpm or less because the pitch of the thread is large and the implant placement speed is fast

**NoMount fixture order code**

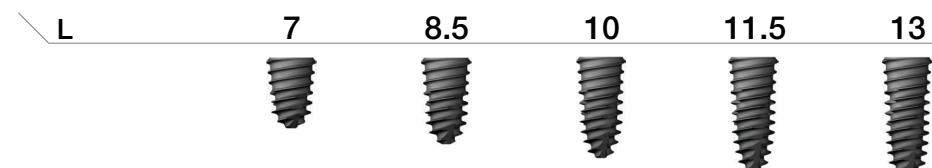
: fixture product code (ex : TS4S4010S)

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

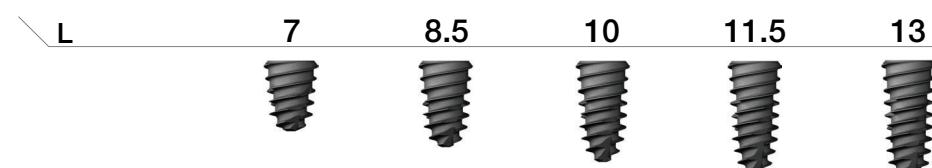
: B + fixture product code (ex : BTS4S4010S)

**D Ø4.0 Pitch 0.8****Hex 2.5**

TS4S4007S TS4S4008S TS4S4010S TS4S4011S TS4S4013S

**D Ø4.5 Pitch 1.0****Hex 2.5**

TS4S4507S TS4S4508S TS4S4510S TS4S4511S TS4S4513S

**D Ø5.0 Pitch 1.2****Hex 2.5**

TS4S5007S TS4S5008S TS4S5010S TS4S5011S TS4S5013S

**Ultra-wide****D Ø6.0****Hex 2.5**

TS4S6007S TS4S6008S TS4S6010S TS4S6011S TS4S6013S

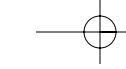
**D Ø7.0****Hex 2.5**

TS4S7007S TS4S7008S TS4S7010S TS4S7011S TS4S7013S

TS SYSTEM

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Nominal and actual diameters may slightly differ



## Mount & Screw

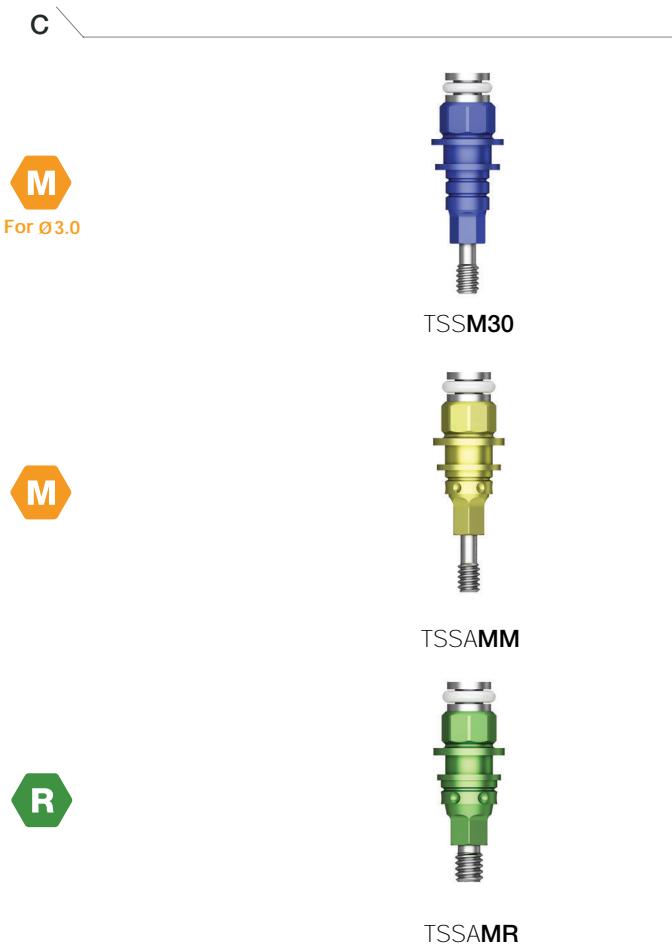
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### Simple Mount

- Use a 1.2 hex driver
- Recommended tightening torque : 8~10Ncm
- Packing unit : mount + mount screw
- Disposable; re-use is not allowed
- C = Connection

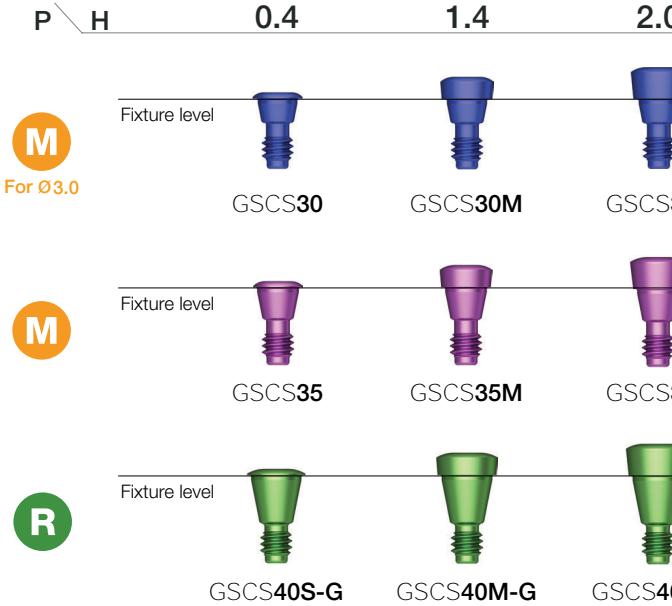
**M** Mini  
**R** Regular



### Cover Screw

- Depending on the depth of the fixture, height(H) is selected
- Ø 3.0 fixture uses exclusive cover screw
- By hand force with 1.2 hex driver
- P = Platform

**M** Mini  
**R** Regular



## Healing Abutment

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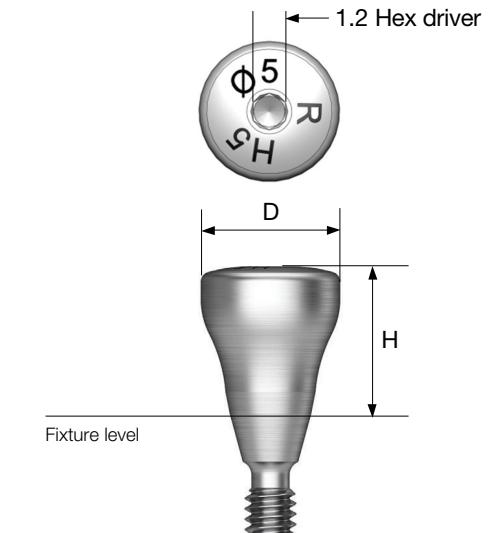
023

- Yellow(mini) color coded prosthetic parts are for Ø 3.5/3.0 fixtures
- Use a 1.2 hex driver (torque manually)

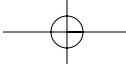
**M** Mini  
**R** Regular

### 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	7.0	9.0
Ø 4.0	TSHA403M	TSHA404M	TSHA405M	TSHA407M	TSHA409M
Ø 4.5	TSHA453M	TSHA454M	TSHA455M	TSHA457M	TSHA459M
D \ H	3.0	4.0	5.0	7.0	9.0
Ø 4.0	TSHA403R	TSHA404R	TSHA405R	TSHA407R	TSHA409R
Ø 4.5	TSHA453R	TSHA454R	TSHA455R	TSHA457R	TSHA459R
Ø 5.0	TSHA503R	TSHA504R	TSHA505R	TSHA507R	TSHA509R
Ø 6.0	TSHA603R	TSHA604R	TSHA605R	TSHA607R	TSHA609R
Ø 7.0	TSHA703R	TSHA704R	TSHA705R	TSHA707R	TSHA709R
Ø 8.0	-	-	TSHA805R	-	-

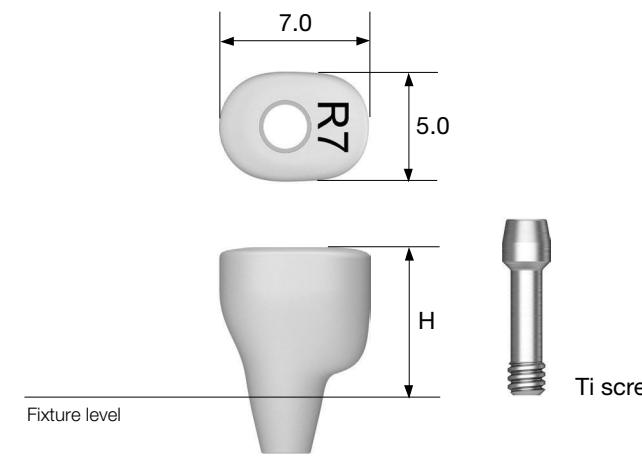


## Custom Healing Abutment

- Healing abutment shaped like a tooth
- Prep able and resin friendly
- Material : medical grade PEEK
- Titanium screw included
- Use a 1.2 hex driver (torque manually)
- Packing unit : abutment + Ti screw
- P = Platform

**Abutment + Ti screw order code**  
: product code + TH (ex : TSCHAPR7TH)

**M** Mini  
**R** Regular



TS SYSTEM

024

P \ H                    5.0                    7.0                    9.0

**M**  
Ti screw  
: GSCHABSMT



TSCHAPM7

TSCHAPM9

**R**  
Ti screw  
: GSCHABSST



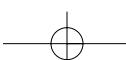
TSCHAPR7

TSCHAPR9

**OSSTEM®**  
IMPLANT

TS SYSTEM

025

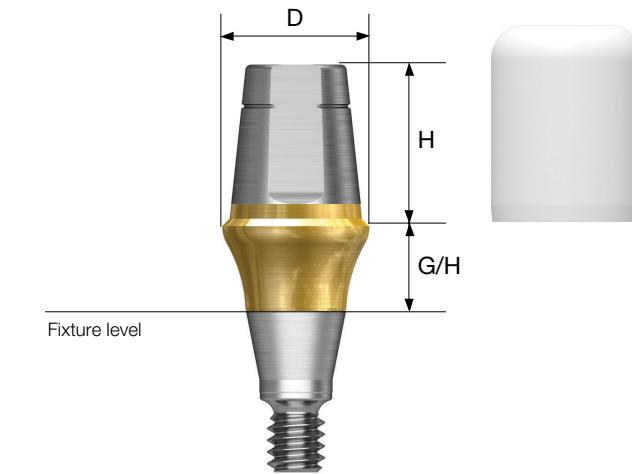




PROSTHETIC FLOW DIAGRAM 1  
**Rigid / Transfer**  
 Abutment Level Impression

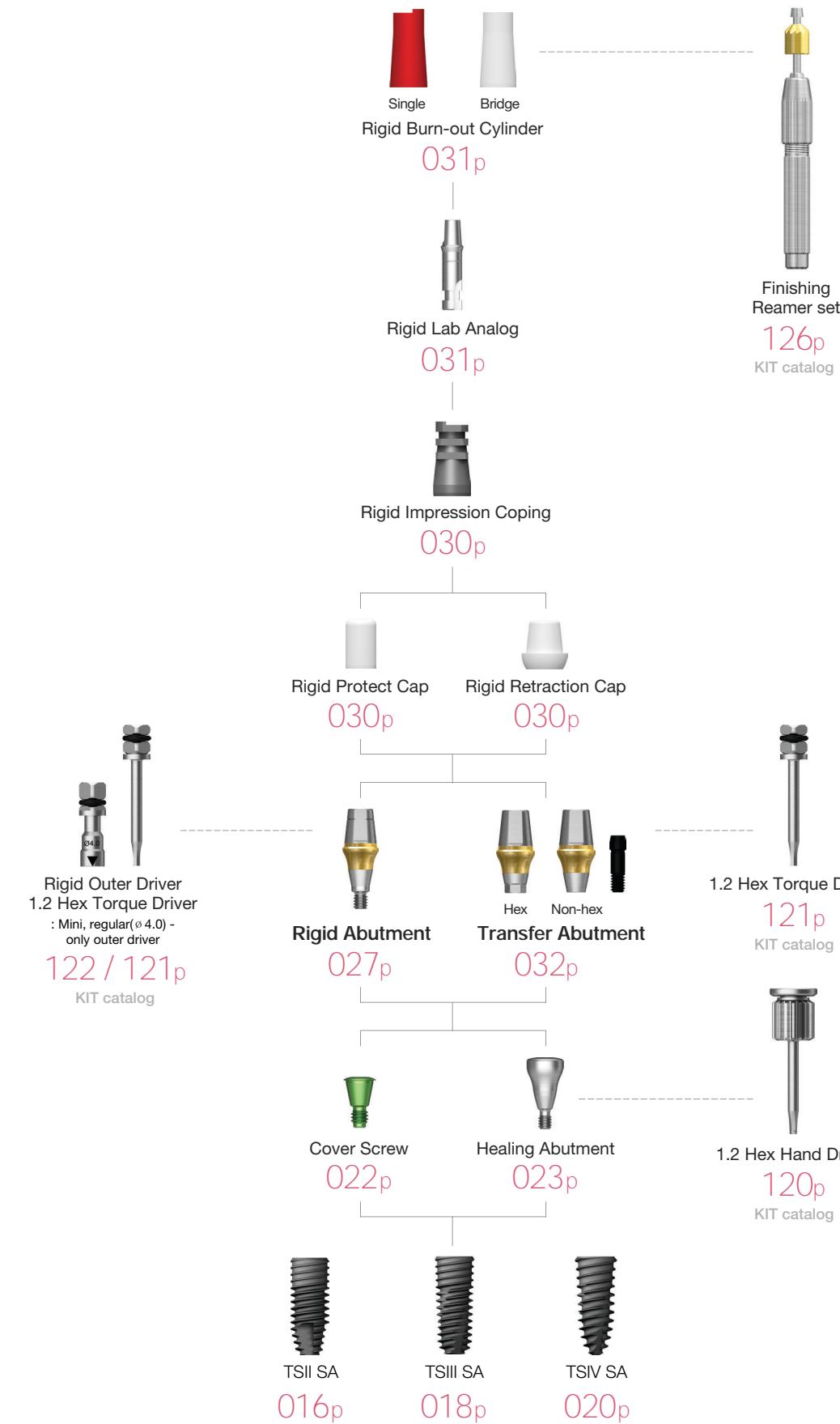


## Rigid Abutment



- Cement-retained prosthesis
- Abutment level impression
- Ø 4.0 : torque with the outer driver (code : ORDML/ORDMS)
- Ø 4.5/5.0/6.0 : torque with the outer driver or 1.2 hex driver
- Ø 7.0 : torque with a 1.2 hex driver
- Recommended tightening torque : 30Ncm
- Packing unit : abutment + protect cap

**Abutment + protect cap order code**  
 : product code + P (ex : GSRA5620P)



TS SYSTEM

026

TS SYSTEM

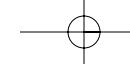
027

**D Ø 4.0****M**

	H \ G/H	1.0	2.0	3.0	4.0	5.0
4.0	GSRA4410	GSRA4420	GSRA4430	GSRA4440	GSRA4450	
5.5	GSRA4610	GSRA4620	GSRA4630	GSRA4640	GSRA4650	
7.0	GSRA4710	GSRA4720	GSRA4730	GSRA4740	GSRA4750	

**D Ø 4.5****M**

	H \ G/H	1.0	2.0	3.0	4.0	5.0
4.0	GSRA4411	GSRA4421	GSRA4431	GSRA4441	GSRA4451	
5.5	GSRA4611	GSRA4621	GSRA4631	GSRA4641	GSRA4651	
7.0	GSRA4711	GSRA4721	GSRA4731	GSRA4741	GSRA4751	



## Rigid Abutment

**D Ø 4.0**

H \ G/H	1.0	2.0	3.0	4.0	5.0
<b>R</b>					
4.0	GSRAS4410	GSRAS4420	GSRAS4430	GSRAS4440	GSRAS4450
5.5	GSRAS4610	GSRAS4620	GSRAS4630	GSRAS4640	GSRAS4650
7.0	GSRAS4710	GSRAS4720	GSRAS4730	GSRAS4740	GSRAS4750

**D Ø 7.0**

H \ G/H	1.0	2.0	3.0	4.0	5.0
<b>R</b>					
5.5	GSRA7610	GSRA7620	GSRA7630	GSRA7640	GSRA7650

**D Ø 4.5**

H \ G/H	1.0	2.0	3.0	4.0	5.0
<b>R</b>					
4.0	GSRAS4411	GSRAS4421	GSRAS4431	GSRAS4441	GSRAS4451
5.5	GSRAS4611	GSRAS4621	GSRAS4631	GSRAS4641	GSRAS4651
7.0	GSRAS4711	GSRAS4721	GSRAS4731	GSRAS4741	GSRAS4751

TS SYSTEM

028

**D Ø 5.0**

H \ G/H	1.0	2.0	3.0	4.0	5.0
<b>R</b>					
4.0	GSRA5410	GSRA5420	GSRA5430	GSRA5440	GSRA5450
5.5	GSRA5610	GSRA5620	GSRA5630	GSRA5640	GSRA5650
7.0	GSRA5710	GSRA5720	GSRA5730	GSRA5740	GSRA5750

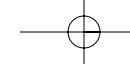
**D Ø 6.0**

H \ G/H	1.0	2.0	3.0	4.0	5.0
<b>R</b>					
4.0	GSRA6410	GSRA6420	GSRA6430	GSRA6440	GSRA6450
5.5	GSRA6610	GSRA6620	GSRA6630	GSRA6640	GSRA6650
7.0	GSRA6710	GSRA6720	GSRA6730	GSRA6740	GSRA6750

TS SYSTEM

029





# Rigid Abutment Components

## Rigid Protect Cap

	D \ H	4.0	5.5	7.0
• Protects the rigid abutment and minimizes patient irritation				
• Can be used as the base for a provisional crown				
• Available for transfer abutment (except for the Ø 4.0)	Ø 4.0 / Ø 4.0	GSRPC440	GSRPC460	GSRPC470
	Ø 4.5 / Ø 4.5	GSRPC441	GSRPC461	GSRPC471
	Ø 5.0	GSRPC540	GSRPC560	GSRPC570
	Ø 6.0	GSRPC640	GSRPC660	GSRPC670
	Ø 7.0	-	GSRPC760	-

**M** Mini

**R** Regular

## Rigid Burn-out Cylinder

	D \ Type	Single	Bridge
• Replacement of resin cap before wax up using rigid abutment	Ø 4.0 / Ø 4.0	GSRP400S	GSRP400B
• Used after casting, clean the margin for proper fitting	Ø 4.5 / Ø 4.5	GSRP450S	GSRP450B
	Ø 5.0	GSRP500S	GSRP500B
	Ø 6.0	GSRP600S	GSRP600B
	Ø 7.0	GSRP700S	GSRP700B

- M** Mini
- R** Regular

## Rigid Retraction Cap

	D \ H	4.0	5.5	7.0
• Used for accurate margin reproduction when taking a direct impression				
• Can be used as the base for a provisional crown				
• Available for transfer abutment (except for the Ø 4.0)	Ø 4.0 / Ø 4.0	GSRRC440	GSRRC460	GSRRC470
	Ø 4.5 / Ø 4.5	GSRRC441	GSRRC461	GSRRC471
	Ø 5.0	GSRRC540	GSRRC560	GSRRC570
	Ø 6.0	GSRRC640	GSRRC660	GSRRC670
	Ø 7.0	-	GSRRC760	-

**M** Mini

**R** Regular

## Rigid Lab Analog

	D \ H	4.0	5.5	7.0
• Rigid abutment reproduction on model after impression	Ø 4.0 / Ø 4.0	GSRLA440	GSRLA460	GSRLA470
• Connect to the appropriate color coded rigid impression coping	Ø 4.5 / Ø 4.5	GSRLA441	GSRLA461	GSRLA471
	Ø 5.0	GSRLA540	GSRLA560	GSRLA570
	Ø 6.0	GSRLA640	GSRLA660	GSRLA670
	Ø 7.0	-	GSRLA760	-

- M** Mini
- R** Regular

## Rigid Impression Coping

	D \ H	4.0	5.5	7.0
• Impression components for rigid abutment				
• Color coded by abutment height				
• Available for transfer abutment (except for the Ø 4.0)	Ø 4.0 / Ø 4.0	GSRIC440S	GSRIC460S	GSRIC470S
	Ø 4.5 / Ø 4.5	GSRIC441S	GSRIC461S	GSRIC471S
	Ø 5.0	GSRIC540S	GSRIC560S	GSRIC570S
	Ø 6.0	GSRIC640S	GSRIC660S	GSRIC670S
	Ø 7.0	-	GSRIC760S	-

**M** Mini

**R** Regular





# Transfer Abutment

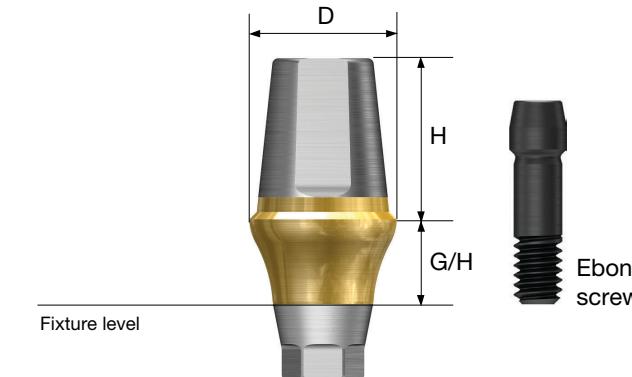
TS SYSTEM

032

- Cement/combination-retained prosthesis
- Fixture level impression
- Abutment level impression is available using the rigid impression coping (except the Ø 4.0)
- Use 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 : GSTA4621WH)



## D Ø 4.0

	H \ G/H	1.0	2.0	3.0	4.0
--	---------	-----	-----	-----	-----



EbonyGold screw  
: GSABSM

Abutment level  
impression not  
possible

Hex	5.5	GSTA4612	GSTA4622	GSTA4632	GSTA4642
	7.0	GSTA4712	GSTA4722	GSTA4732	GSTA4742
Non-Hex	5.5	GSTA4612N	GSTA4622N	GSTA4632N	GSTA4642N
	7.0	GSTA4712N	GSTA4722N	GSTA4732N	GSTA4742N

	H \ G/H	5.0	6.0	7.0
--	---------	-----	-----	-----

Hex	5.5	GSTA4652	GSTA4662	GSTA4672
	7.0	GSTA4752	GSTA4762	GSTA4772
Non-Hex	5.5	GSTA4652N	GSTA4662N	GSTA4672N
	7.0	GSTA4752N	GSTA4762N	GSTA4772N

## D Ø 4.5



EbonyGold screw  
: GSABSM

	H \ G/H	1.0	2.0	3.0	4.0
Hex	5.5	GSTA4611	GSTA4621	GSTA4631	GSTA4641
	7.0	GSTA4711	GSTA4721	GSTA4731	GSTA4741
Non-Hex	5.5	GSTA4611N	GSTA4621N	GSTA4631N	GSTA4641N
	7.0	GSTA4711N	GSTA4721N	GSTA4731N	GSTA4741N

	H \ G/H	5.0	6.0	7.0
--	---------	-----	-----	-----

Hex	5.5	GSTA4651	GSTA4661	GSTA4671
	7.0	GSTA4751	GSTA4761	GSTA4771
Non-Hex	5.5	GSTA4651N	GSTA4661N	GSTA4671N
	7.0	GSTA4751N	GSTA4761N	GSTA4771N

## D Ø 4.5



EbonyGold screw  
: GSABSS

	H \ G/H	1.0	2.0	3.0	4.0
Hex	5.5	GSTAS4611	GSTAS4621	GSTAS4631	GSTAS4641
	7.0	GSTAS4711	GSTAS4721	GSTAS4731	GSTAS4741
Non-Hex	5.5	GSTAS4611N	GSTAS4621N	GSTAS4631N	GSTAS4641N
	7.0	GSTAS4711N	GSTAS4721N	GSTAS4731N	GSTAS4741N

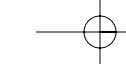
	H \ G/H	5.0	6.0	7.0
--	---------	-----	-----	-----

Hex	5.5	GSTAS4651	GSTAS4661	GSTAS4671
	7.0	GSTAS4751	GSTAS4761	GSTAS4771
Non-Hex	5.5	GSTAS4651N	GSTAS4661N	GSTAS4671N
	7.0	GSTAS4751N	GSTAS4761N	GSTAS4771N

TS SYSTEM

033





## Transfer Abutment

D Ø5.0	H \ G/H	1.0	2.0	3.0	4.0
<b>EbonyGold screw : GSABSS</b>	4.0	GSTA5410	GSTA5420	GSTA5430	GSTA5440
	Hex 5.5	GSTA5610	GSTA5620	GSTA5630	GSTA5640
	7.0	GSTA5710	GSTA5720	GSTA5730	GSTA5740
	4.0	GSTA5410N	GSTA5420N	GSTA5430N	GSTA5440N
	Non-Hex 5.5	GSTA5610N	GSTA5620N	GSTA5630N	GSTA5640N
	7.0	GSTA5710N	GSTA5720N	GSTA5730N	GSTA5740N

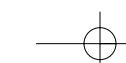
D Ø6.0	H \ G/H	5.0	6.0	7.0
<b>EbonyGold screw : GSABSS</b>	4.0	GSTA6450	GSTA6460	GSTA6470
	Hex 5.5	GSTA6650	GSTA6660	GSTA6670
	7.0	GSTA6750	GSTA6760	GSTA6770
	4.0	GSTA6450N	GSTA6460N	GSTA6470N
	Non-Hex 5.5	GSTA6650N	GSTA6660N	GSTA6670N
	7.0	GSTA6750N	GSTA6760N	GSTA6770N

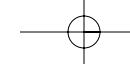
TS SYSTEM	H \ G/H	5.0	6.0	7.0
034				
<b>EbonyGold screw : GSABSS</b>	4.0	GSTA5450	GSTA5460	GSTA5470
	Hex 5.5	GSTA5650	GSTA5660	GSTA5670
	7.0	GSTA5750	GSTA5760	GSTA5770
	4.0	GSTA5450N	GSTA5460N	GSTA5470N
	Non-Hex 5.5	GSTA5650N	GSTA5660N	GSTA5670N
	7.0	GSTA5750N	GSTA5760N	GSTA5770N

TS SYSTEM	H \ G/H	1.0	2.0	3.0	4.0
035					
<b>EbonyGold screw : GSABSS</b>	4.0	GSTA7410	GSTA7420	GSTA7430	GSTA7440
	Hex 5.5	GSTA7610	GSTA7620	GSTA7630	GSTA7640
	4.0	GSTA7410N	GSTA7420N	GSTA7430N	GSTA7440N
	Non-Hex 5.5	GSTA7610N	GSTA7620N	GSTA7630N	GSTA7640N
	4.0	GSTA7450	GSTA7460	GSTA7470	GSTA7480
	Non-Hex 5.5	GSTA7650	GSTA7660	GSTA7670	GSTA7680

D Ø6.0	H \ G/H	1.0	2.0	3.0	4.0
<b>EbonyGold screw : GSABSS</b>	4.0	GSTA6410	GSTA6420	GSTA6430	GSTA6440
	Hex 5.5	GSTA6610	GSTA6620	GSTA6630	GSTA6640
	7.0	GSTA6710	GSTA6720	GSTA6730	GSTA6740
	4.0	GSTA6410N	GSTA6420N	GSTA6430N	GSTA6440N
	Non-Hex 5.5	GSTA6610N	GSTA6620N	GSTA6630N	GSTA6640N
	7.0	GSTA6710N	GSTA6720N	GSTA6730N	GSTA6740N

H \ G/H	5.0	6.0	7.0
Hex 4.0	GSTA7450	GSTA7460	GSTA7470
5.5	GSTA7650	GSTA7660	GSTA7670
4.0	GSTA7450N	GSTA7460N	GSTA7470N
5.5	GSTA7650N	GSTA7660N	GSTA7670N





# Transfer Abutment Components

## Bite Index

- Used for 'check bite impression' with fixture
- Use a 1.2 hex driver (torque manually)
- Packing unit : 2ea

M Mini

R Regular

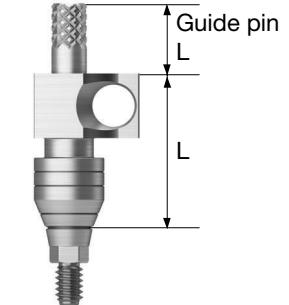
D \ L	4.0	6.0	8.0	10.0	12.0	
TS SYSTEM						
036	Ø 4.5 Ø 5.5	GSBIM4504S GSBIS5504S	GSBIM4506S GSBIS5506S	GSBIM4508S GSBIS5508S	GSBIM4510S GSBIS5510S	GSBIM4512S GSBIS5512S

## Fixture Pick-up Impression Coping

- Fixture level components for impression
- For open tray impressions
- Unique design that is fixed position in the impression material
- Use a 1.2 hex driver (torque manually)
- Packing unit : impression coping body + guide pin(\*)

M Mini (Yellow)

R Regular (Green)



D \ L	Type	Hex	11	Non-Hex	Guide Pin	5.0	9.0
Ø 4.0	GSPIM4011		GSPIM4011N				
Ø 4.5	GSPIM4511		GSPIM4511N				
Ø 4.0	GSPIS4011		GSPIS4011N				
Ø 4.5	GSPIS4511		GSPIS4511N				
Ø 5.0	GSPIS5011		GSPIS5011N				
Ø 6.0	GSPIS6011		GSPIS6011N				
Ø 7.0	GSPIS7011		GSPIS7011N				
					GSPGPM100	GSPGPM150*	GSPGPM150L
					GSPGPR100	GSPGPR150*	GSPGPR150L

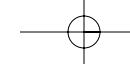
TS SYSTEM

037

D \ L	Type	Hex	15	Non-Hex	Guide Pin	5.0	9.0
Ø 4.0	GSPIM4015		GSPIM4015N				
Ø 4.5	GSPIM4515		GSPIM4515N				
Ø 4.0	GSPIS4015		GSPIS4015N				
Ø 4.5	GSPIS4515		GSPIS4515N				
Ø 5.0	GSPIS5015		GSPIS5015N				
Ø 6.0	GSPIS6015		GSPIS6015N				
Ø 7.0	GSPIS7015		GSPIS7015N				
					GSPGPM100L	GSPGPM150L*	GSPGPM200L
					GSPGPR100L	GSPGPR150L*	GSPGPR200L

TS SYSTEM

037



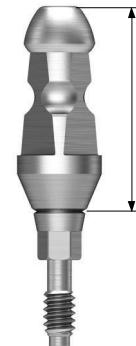
# Transfer Abutment Components

## Fixture Transfer Impression Coping

- Fixture level components for impression
- For closed tray impressions
- Triangular arc ensures accurate placement
- Use a 1.2 hex driver (torque manually)
- Packing unit
  - Hex : impression coping body + guide pin
  - Non-hex : impression coping

**M** Mini (Yellow)

**R** Regular (Green)



	D	L	Type	11	14
038			Hex		
<b>Ø 4.0</b>	GSTM4011		GSTM4011N	GSTM4014	GSTM4014N
<b>Ø 4.5</b>	GSTM4511		GSTM4511N	GSTM4514	GSTM4514N
<b>Ø 4.0</b>	GSTIS4011		GSTIS4011N	GSTIS4014	GSTIS4014N
<b>Ø 4.5</b>	GSTIS4511		GSTIS4511N	GSTIS4514	GSTIS4514N
<b>Ø 5.0</b>	GSTIS5011		GSTIS5011N	GSTIS5014	GSTIS5014N
<b>Ø 6.0</b>	GSTIS6011		GSTIS6011N	GSTIS6014	GSTIS6014N
<b>Ø 7.0</b>	GSTIS7011		GSTIS7011N	GSTIS7014	GSTIS7014N

## Laboratory Screw

- Lab screw : abutment screw for lab work
- Waxing screw : longer screw for making screw-type prostheses and transfer jigs
- Packing unit : lab screw, waxing screw

**M** Mini

**R** Regular

## Lab Screw Waxing Screw



TS SYSTEM

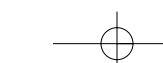
039

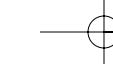
## Fixture Lab Analog

- Lab analog for fixture level impressions
- Select appropriate size according to the diameter of a fixture;
  - ø 3.0 / ø 3.5 / ≥ ø 4.0

**M** Mini

**R** Regular

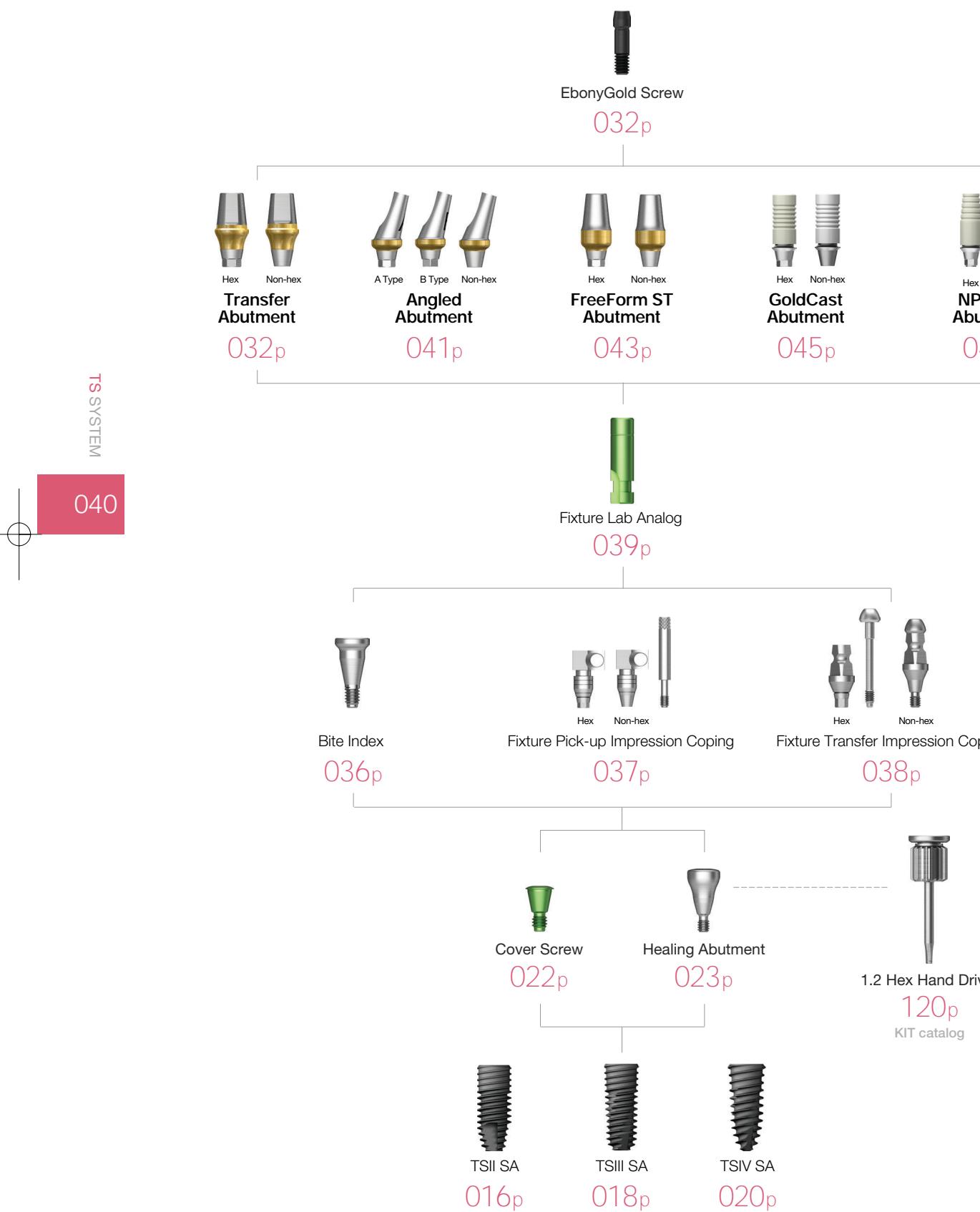




# PROSTHETIC FLOW DIAGRAM 2

## Transfer / Angled / FreeForm ST GoldCast / NP-Cast

## Fixture Level Impression

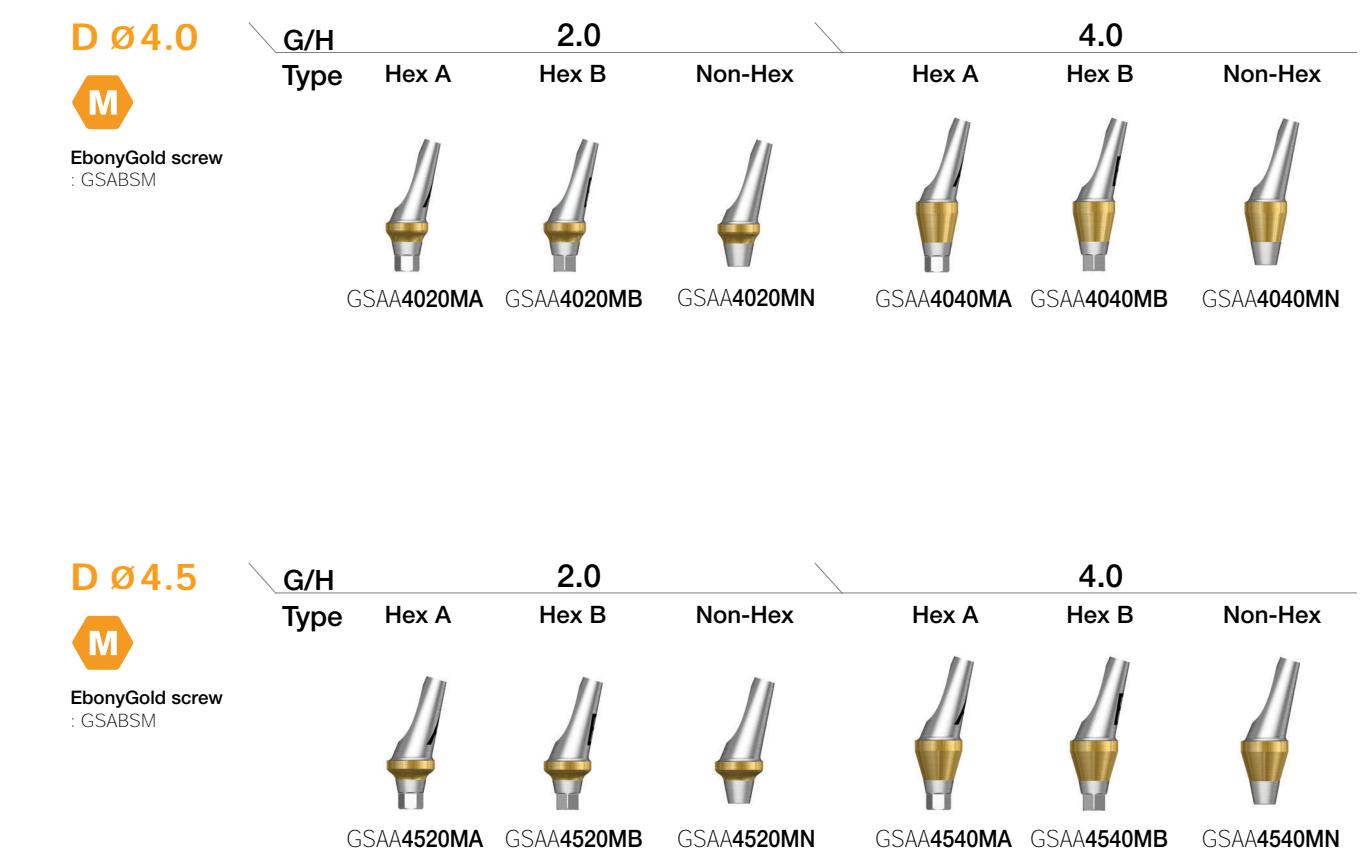
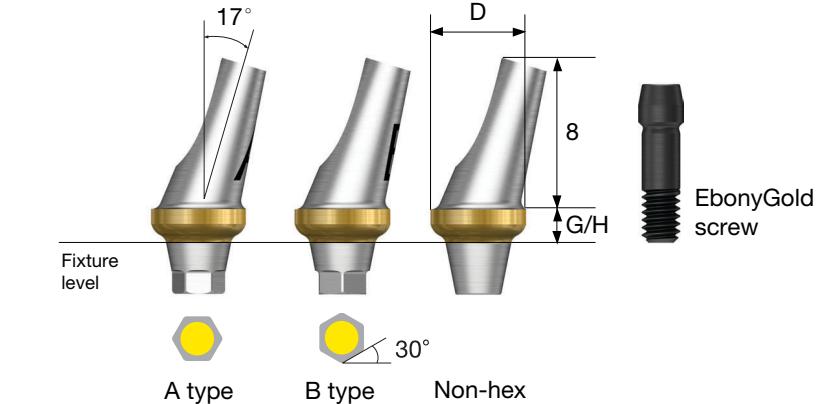


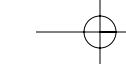
# Angled Abutment



- Cement/combination-retained prosthesis
  - Angle compensation up to 23° without the need for trimming
  - Fixture level impression
  - Use 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**)





## Angled Abutment

**D Ø 4.5**



EbonyGold screw  
: GSABSS

G/H      2.0      4.0

Type Hex A Hex B Non-Hex Hex A Hex B Non-Hex



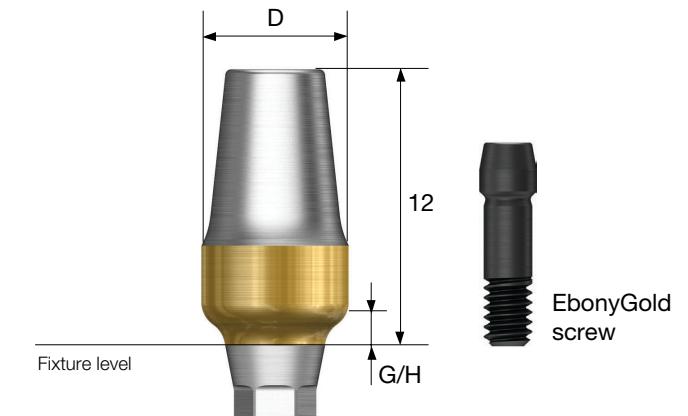
GSAA4520A GSAA4520B GSAA4520N GSAA4540A GSAA4540B GSAA4540N

## FreeForm ST Abutment



- Cement/combination-retained prosthesis
- Prep-able margins can be contoured as needed
- Fixture level impression
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm(min), 30Ncm(regular)
- Packing unit : abutment + EbonyGold screw

Abutment + EbonyGold screw order code  
: pcode + WH (ex : GSFA5015WH)



**D Ø 5.0**



EbonyGold screw  
: GSABSS

G/H      2.0      4.0

Type Hex A Hex B Non-Hex Hex A Hex B Non-Hex



GSAA5020A GSAA5020B GSAA5020N GSAA5040A GSAA5040B GSAA5040N

**D Ø 6.0**



EbonyGold screw  
: GSABSS

G/H      2.0      4.0

Type Hex A Hex B Non-Hex Hex A Hex B Non-Hex



GSAA6020A GSAA6020B GSAA6020N GSAA6040A GSAA6040B GSAA6040N

**D Ø 4.0**



EbonyGold screw  
: GSABSM

G/H      1.5      3.0

Type Hex Non-Hex Hex Non-Hex



GSFAM4015 GSFAM4015N GSFAM4030 GSFAM4030N

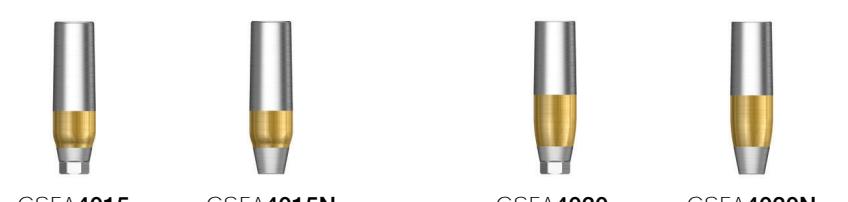
**D Ø 4.0**



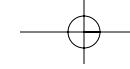
EbonyGold screw  
: GSABSS

G/H      1.5      3.0

Type Hex Non-Hex Hex Non-Hex



GSFA4015 GSFA4015N GSFA4030 GSFA4030N



## FreeForm ST Abutment

**D Ø5.0**



EbonyGold screw  
: GSABSS



**D Ø5.0**



EbonyGold screw  
: GSABSS



TS SYSTEM

044

**D Ø6.0**



EbonyGold screw  
: GSABSS



**D Ø7.0**



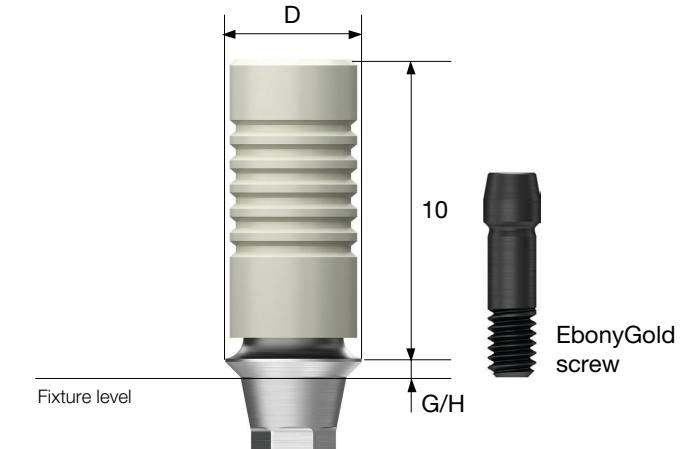
EbonyGold screw  
: GSABSS



## GoldCast Abutment



- Cement/combination/screw-retained prosthesis
  - Customized prosthesis cast with gold alloy
  - Abutment melting point : 1400~1450°C
  - Fixture level impression
  - Use a 1.2 hex driver
  - Recommended tightening torque : 20Ncm(min), 30Ncm(regular)
  - Packing unit : abutment + EbonyGold screw
- Abutment + EbonyGold screw order code**  
: product code + WH (ex : GSGA4510SWH)



TS SYSTEM

045

**D Ø4.0**



EbonyGold screw  
: GSABSM

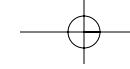


**D Ø4.5**



EbonyGold screw  
: GSABSS



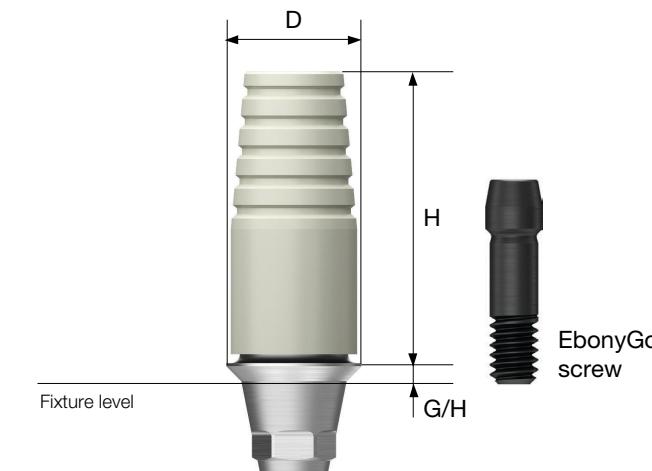


# NP-Cast Abutment



- Cement/combination/screw-retained prosthesis
- Customized prosthesis cast with non-precious alloys
- Abutment melting point : 1400~1550°C
- Fixture level impression
- Use 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 : GSNA4510SWH)



TS SYSTEM

046

**D Ø4.0**EbonyGold screw  
: GSABSM
**OSSTEM®**  
IMPLANT

TS SYSTEM

047

**D Ø4.5**EbonyGold screw  
: GSABSS



## PROSTHETIC FLOW DIAGRAM 3

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

Fixture Level Impression



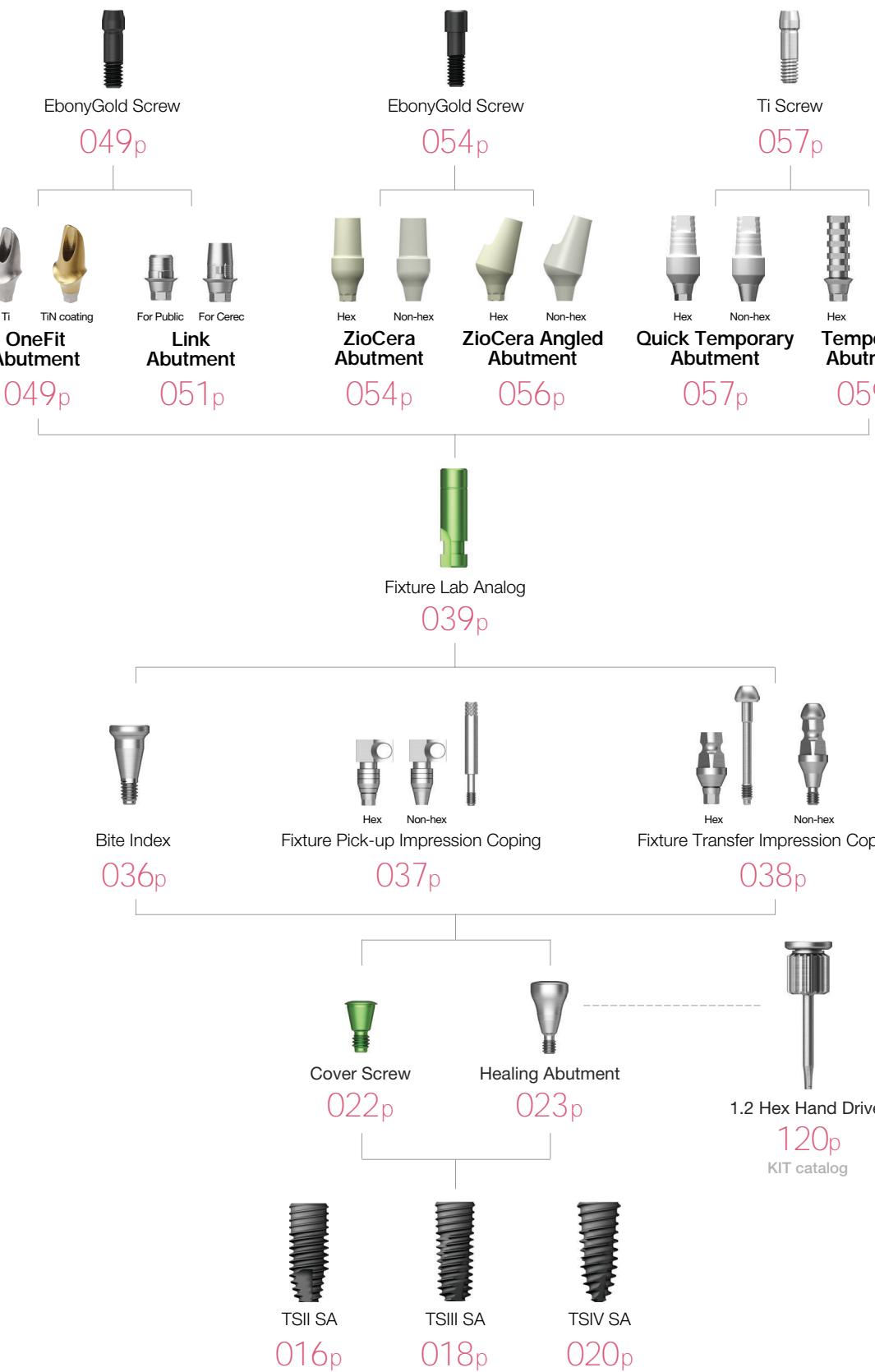
## OneFit Abutment

- Cement/combination-retained prosthesis
- CAD/CAM designed and milled customized abutments
- Fixture level impression
- Abutment level impression is possible when using scan healing abutment
- Lead time (in working days)
  - Titanium : 5 days
  - Titanium + gold color : 7 days
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm(mini), 30Ncm(regular)
- Packing unit : abutment + EbonyGold screw



TS SYSTEM

048



TS SYSTEM

049

## Scan Body

- Scan body for titanium custom abutment production
- For model scan : long (15mm)
- For intra oral scan : short (10mm)
- Use a 1.2 hex driver (torque manually)
- Packing unit : scan body + Ti screw

Scan body + screw order code  
: product code + TH (ex : TSSBMTH)

**M** Mini

**R** Regular

**L**  
**M** Yellow color screw  
: TSSBSM

**10mm**  
TSSBOM

**15mm**  
TSSBM

**R** Green color screw  
: TSSBSS

TSSBOS

TSSBS

Scan body for other company's implant,  
OneFit abutment production

D Type DESBSTH

Di Type CUSBSTH

Dt Type  
M Type

Purple  
anodizing  
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
- Lineup for various milling equipment  
(milling manufacturers : Doowon, Vatech, Neo, Manix, Zirkonzahn, and Yenadent)
- Packing unit: abutment + Ti screw

**Scan body + screw order code**

: product code + WH or TH (ex : TSPM10ARMWH)

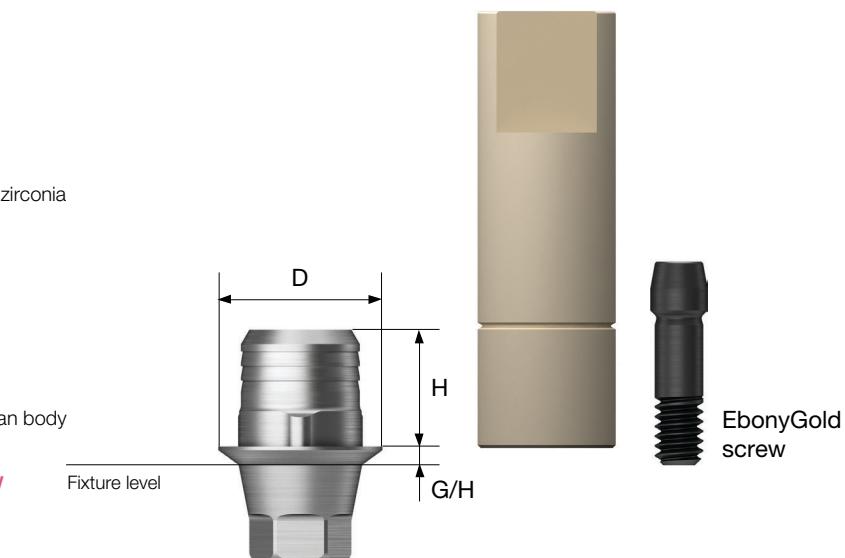


## Link Abutment for Public

- Cement/combination/screw-retained prosthesis
- Titanium base for CAD/CAM designed and milled zirconia custom abutment
- Use osstem's official implant library
- Fixture level impression
- Use 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 : TSPTB431RWH)



Equipment	Implant	D	Specifications	Code
Doowon ARUM Vatech imes-icore	Osstem TS	Ø10	Mini	Hex TSPM10ARMWH
			Mini	Non-hex TSPM10ARMNWH
			Regular	Hex TSPM10ARRWH
			Regular	Non-hex TSPM10ARRNWH
	D type	Ø10	Regular	Hex DEPM10ARRTH
			Regular	Non-hex DEPM10ARRNTH
	N type	Ø10	Regular	Hex NEPM10ARRTH
			Regular	Non-hex NEPM10ARRNTH
Neo Cameleon	Osstem TS	Ø10	Mini	Hex TSPM10CAMWH
			Mini	Non-hex TSPM10CAMNWH
			Regular	Hex TSPM10CARWH
			Regular	Non-hex TSPM10CARNWH
	D type	Ø10	Regular	Hex DEPM10CARTH
			Regular	Non-hex DEPM10CARNTH
	N type	Ø10	Regular	Hex NEPM10CARTH
			Regular	Non-hex NEPM10CARNTH
Zikozhan	Osstem TS	Ø10	Mini	Hex TSPM10ZKMW
			Mini	Non-hex TSPM10ZKMNW
			Regular	Hex TSPM10ZKRW
			Regular	Non-hex TSPM10ZKRNW
Manix	Osstem TS	Ø10	Mini	Hex TSPM10MXW
			Mini	Non-hex TSPM10MXNW
			Regular	Hex TSPM10MXR
			Regular	Non-hex TSPM10MXRN

### D Ø 4.0



EbonyGold screw  
: GSABSM

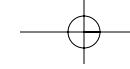
G/H	1.0		2.0
	Type		
Hex	3.0	TSPTB431M	TSPTB432M
	5.0	TSPTB451M	TSPTB452M
Non-Hex	3.0	TSPTB431MN	TSPTB432MN
	5.0	TSPTB451MN	TSPTB452MN

### D Ø 4.5



EbonyGold screw  
: GSABSS

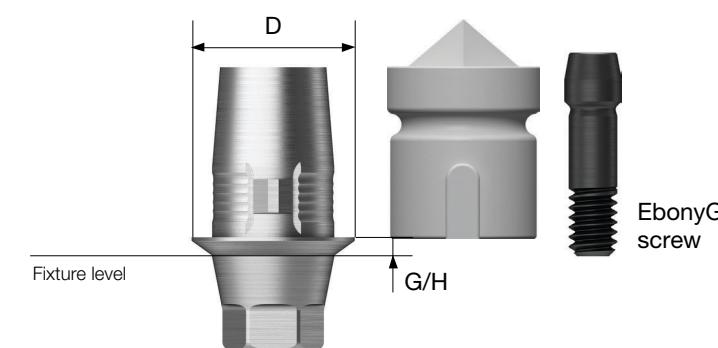
G/H	1.0		2.0
	Type		
Hex	3.0	TSPTB431R	TSPTB432R
	5.0	TSPTB451R	TSPTB452R
Non-Hex	3.0	TSPTB431RN	TSPTB432RN
	5.0	TSPTB451RN	TSPTB452RN



## Link Abutment for Cerec

- Cement/combination/screw-retained prosthesis
- Titanium base for CEREC™ CAD/CAM designed and milled zirconia custom abutment
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm(mini), 30Ncm(regular)

**Abutment + EbonyGold screw + scan body order code**  
: product code + WH (ex : TSCTBRWH)



TS SYSTEM

052

**M**  
EbonyGold screw  
: GSABSM

Type	Hex	Non-Hex
TSCTBM	TSCTBMN	

**R**  
EbonyGold screw  
: GSABSS

Type	Hex	Non-Hex
TSCTBR	TSCTBRN	

### Scan Post

- Special post used to scan the position of the implant where space is limited (i.e. thick soft tissue, deeply inserted fixture)
- Connect scan body before scanning
- Use a 1.2 hex driver (torque manually)
- Packing unit : scan post + Ti screw

**Scan body + Screw order code**  
: product code + TH (ex : TSCSPRTH)

**M** Mini  
**R** Regular

**M**

Yellow anodizing screw  
: GSABSM



TSCSPM

**R**

Green anodizing screw  
: GSABSS



TSCSPR

TS SYSTEM

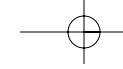
053

### Scan Body

- Scan after connecting to a link abutment for CEREC™, or a scan post
- Packing unit : scan body x 10ea



TSCSBS



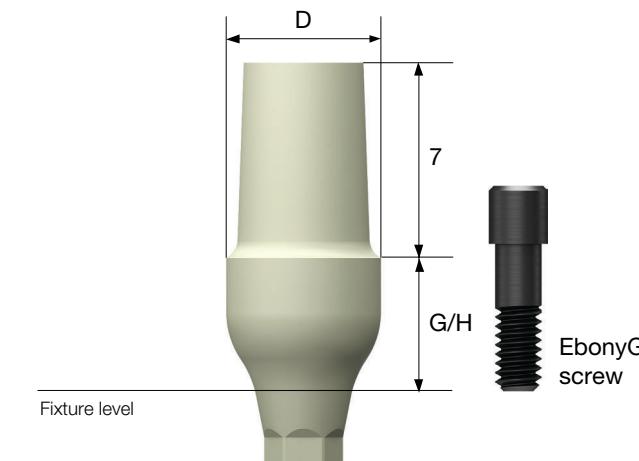
# ZioCera Abutment



- Cement/combination/screw-retained prosthesis
- Zirconium abutment for all ceramic prostheses ideal for anterior - esthetic zone
- Fixture level impression
- Use a 1.2 hex driver
- Abutment screw included
- Recommended tightening torque : 20Ncm(mini), 30Ncm(regular)
- Packing unit : abutment + EbonyGold screw

## Abutment + EbonyGold screw order code

: product code + WH (ex : GSZAS5535NWH)



**D Ø5.5**



EbonyGold screw  
: GSASR



TS SYSTEM

054

**D Ø4.5**



EbonyGold screw  
: GSASM



TS SYSTEM

055

**D Ø6.5**



EbonyGold screw  
: GSASR

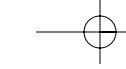


**D Ø4.5**



EbonyGold screw  
: GSASR



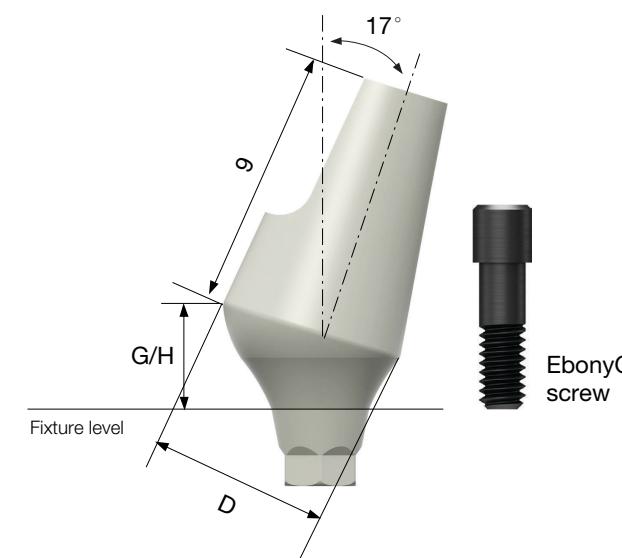


## ZioCera Angled Abutment

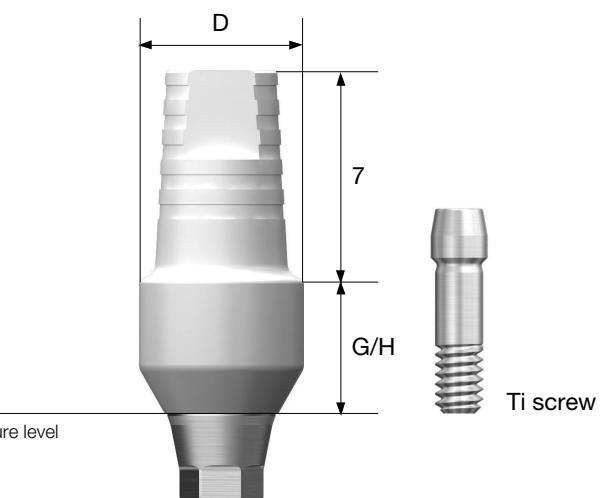


- Cement/combination/screw-retained prosthesis
- Zirconium abutment for all ceramic prostheses ideal for anterior - esthetic zone
- Angle compensation up to 23° without the need for additional adjustment
- Fixture level impression
- Use a 1.2 hex driver
- Abutment screw included
- Recommended tightening torque : 20Ncm(mini), 30Ncm(regular)
- Packing unit : abutment + EbonyGold screw

**Abutment + EbonyGold screw order code**  
: product code + WH (ex : GS17ZAS5530NWH)



## Quick Temporary Abutment

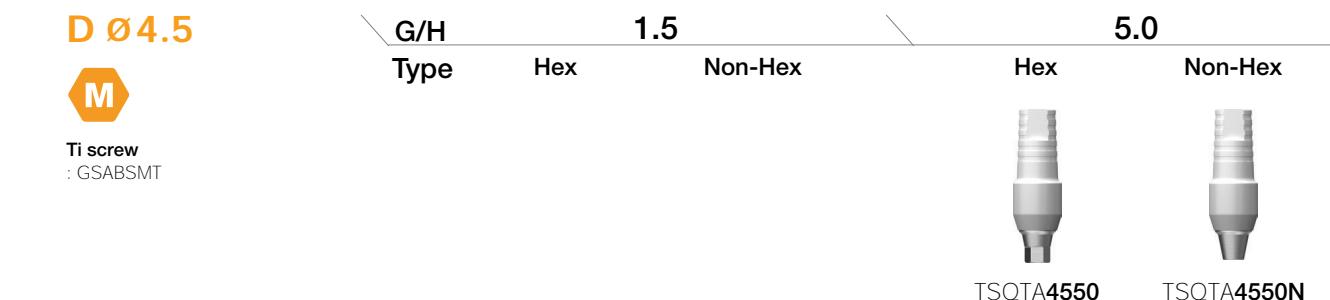
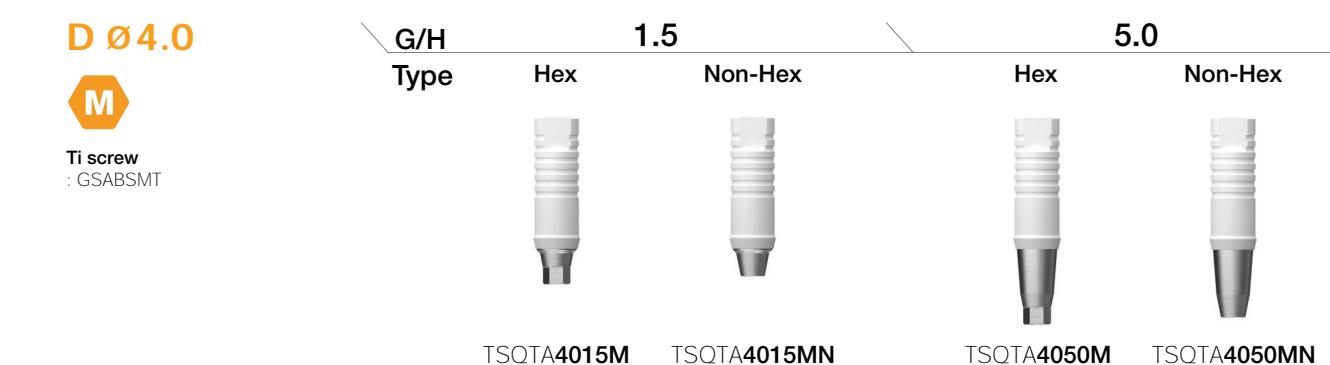


- Cement/screw-retained prosthesis
- A provisional prostheses for immediate loading
- Prep able and resin friendly
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm(mini/regular)
- Packing unit : abutment + Ti screw

**Abutment + Ti screw order code**  
: product code + TH (ex : TSQTA5550TH)

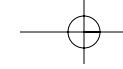
TS SYSTEM

056

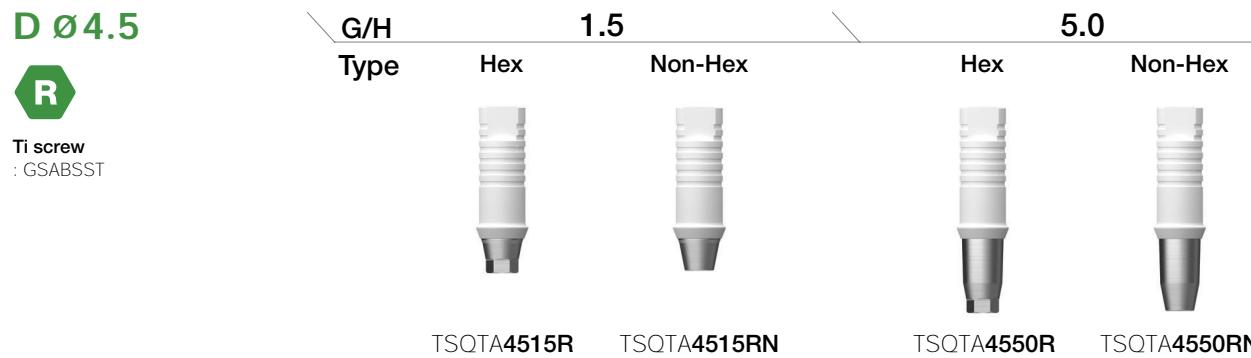


TS SYSTEM

057



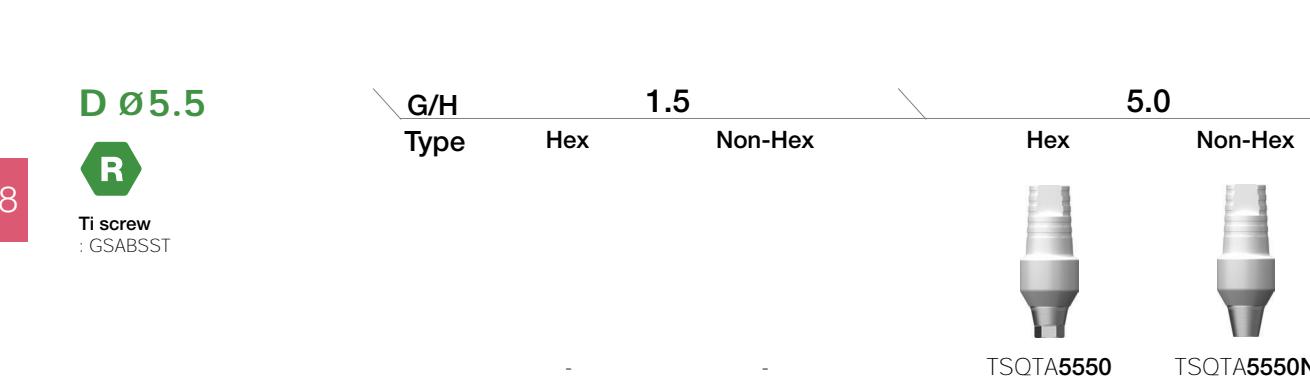
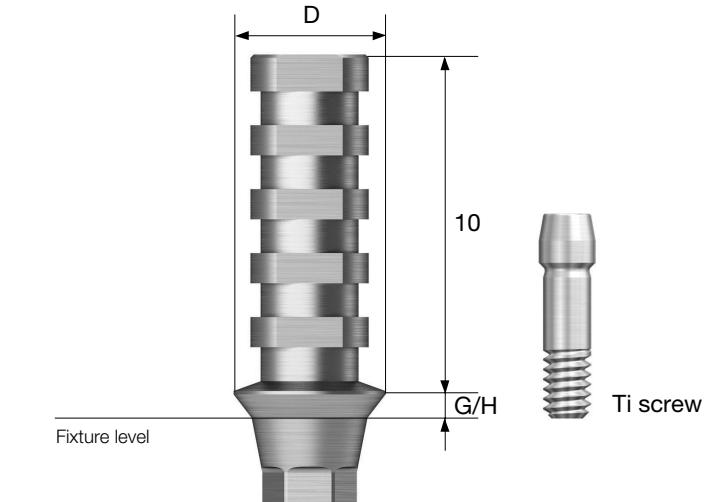
## Quick Temporary Abutment



## Temporary Abutment

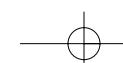
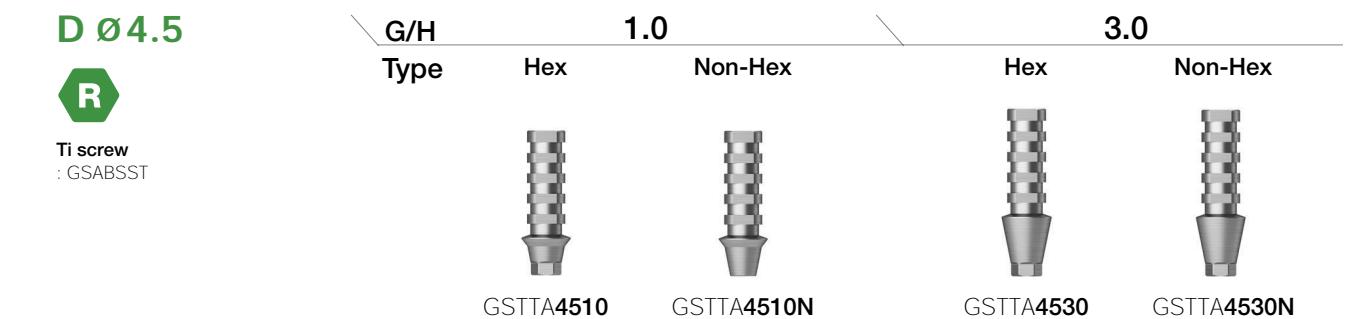
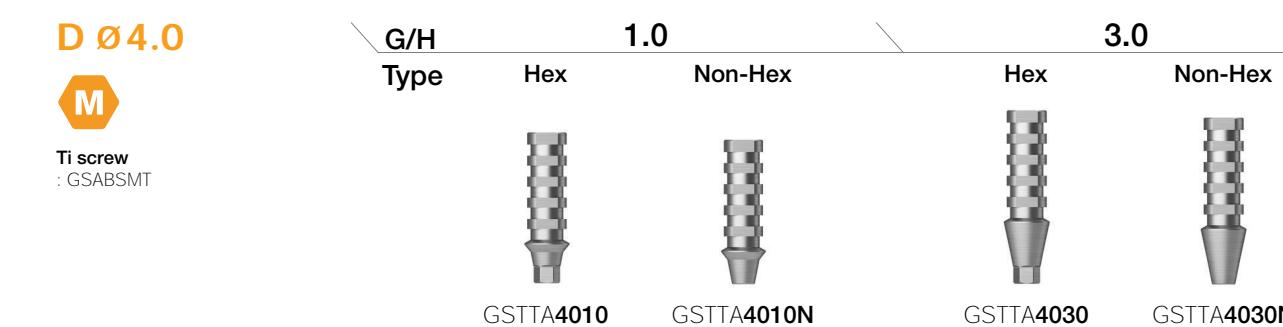
- Cement/screw abutment for temporary prosthesis manufacture
- After prep, used to make temporary prosthesis
- Fixture level impression
- Using 1.2 hex driver
- Recommended tightening torque : 20Ncm(mini/regular)
- Packing unit : abutment + Ti screw

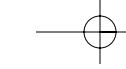
**Abutment + Ti screw order code**  
: product code + TH (ex : GSTTA4510TH)



TS SYSTEM

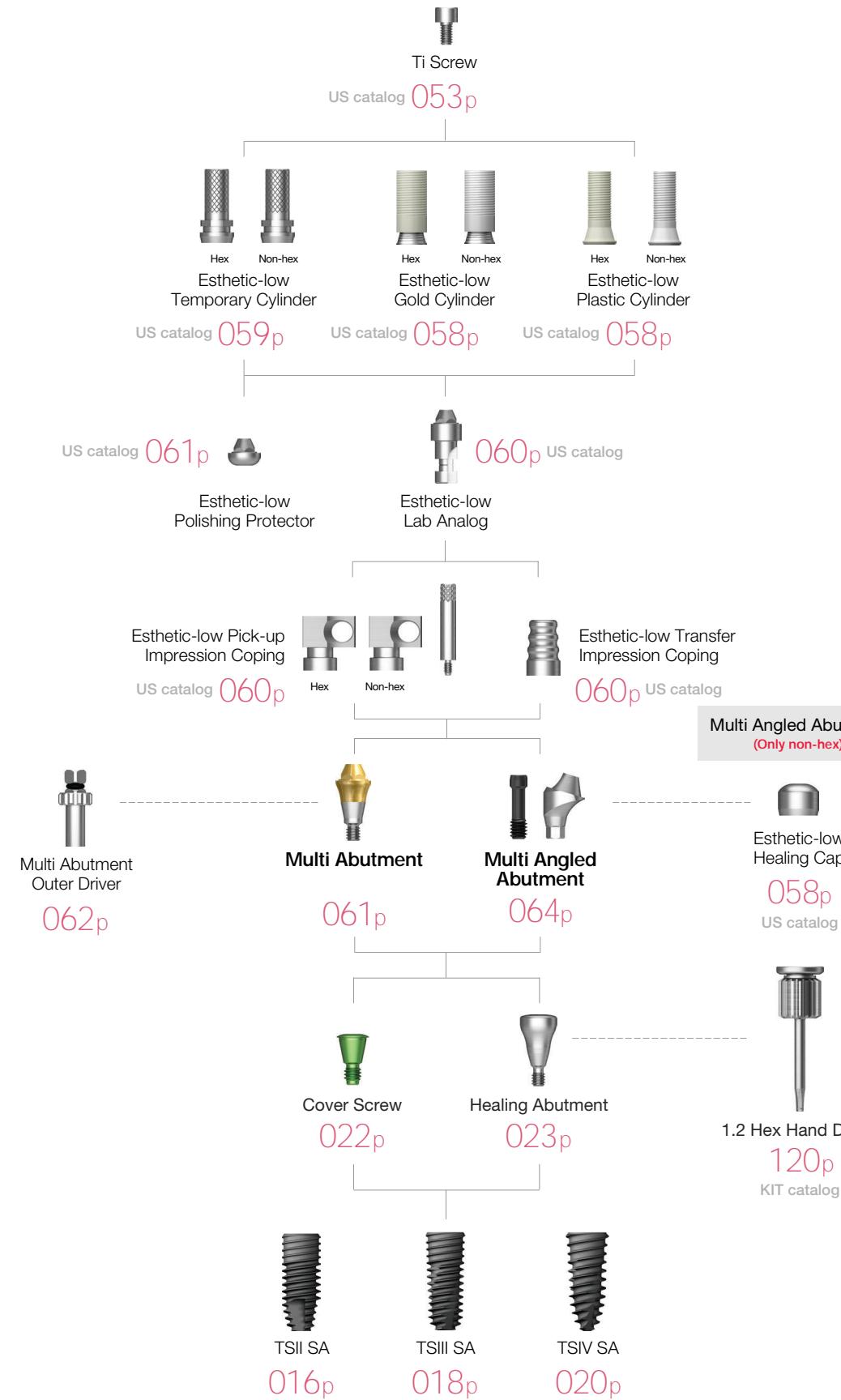
059





## PROSTHETIC FLOW DIAGRAM 4 Multi / Multi Angled

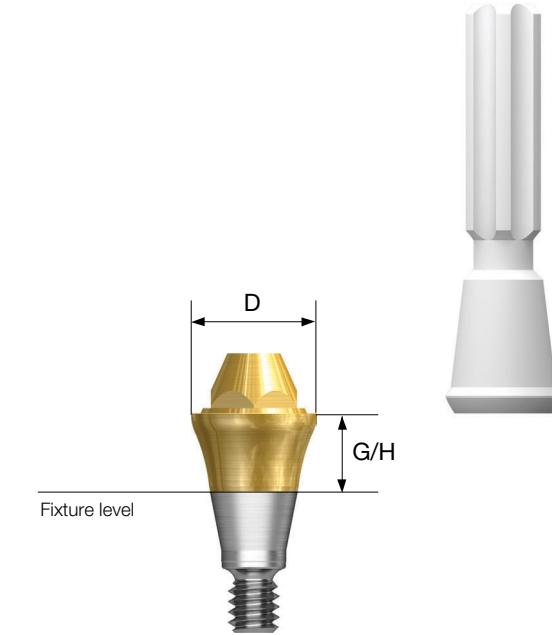
Abutment Level Impression



## Multi Abutment

- Screw-retained prosthesis for multiple prosthetic options
- Same platform as the multi angled abutment
- Restorative components : US esthetic low cylinder (regular/non-hex)
- Torque using multi abutment outer driver (code : MAOD)
- Recommended tightening torque : 30Ncm(mini/regular)
- Packing unit : abutment + carrier

**Abutment + carrier order code**  
: product code + P (ex : TSMA5030P)

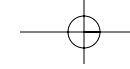


**D Ø 4.8**



**D Ø 4.8**





# Multi Abutment Components

## Multi Abutment Outer Driver

- Multi abutment torque driver



MAOD

## Multi Abutment Machine Driver

- Multi abutment machine driver



MAMD

## Multi Abutment NP-Cast Cylinder

- Used in the manufacture of screw abutment prosthesis in multi abutments
- Used for customized prosthesis by casting with non-precious alloy
- Cylinder's melting temperature : 1400~1550°C
- Using 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : cylinder + Ti cylinder screw

**Abutment + Ti Screw order Code**  
: product code + TH (ex : TSMN500TH)

Regular

### D \ Type Hex Non-Hex



TSMN500



TSMN500N

## Multi Combination Cylinder

- Used in the manufacture of combination abutment prosthesis in multi abutment
- Using 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : cylinder + Ti cylinder screw

**Abutment + Ti screw order Code**  
: product code + TH (ex : TSMC500TH)

Regular

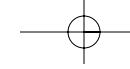
### D \ Type Hex Non-Hex



TSMC500



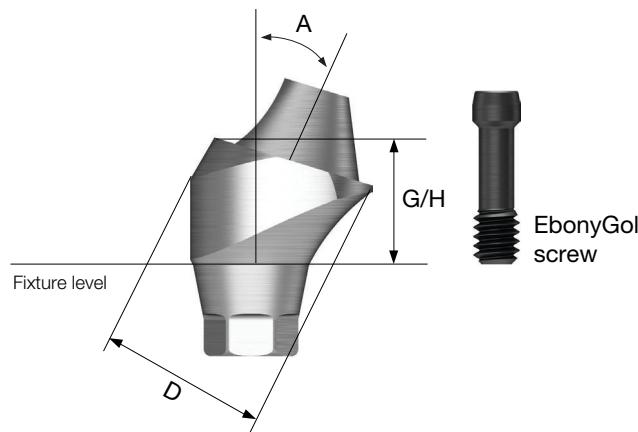
TSMC500N



# Multi Angled Abutment

- Screw-retained prosthesis for multiple prosthetic options
- Same platform as the multi angled abutment
- Angle compensation up to 108°
- Restorative components : US esthetic low cylinder (regular/non-hex)
- Abutment screw included
- Use 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 : GS17MAS4840WH)



TS SYSTEM

064

**D Ø4.8**EbonyGold screw  
: GSMABSM

Angle \ G/H      2.5      3.0      4.0

17°      GS17MAM4820      GS17MAM4830      GS17MAM4840

Angle \ G/H      3.5      4.0      5.0

30°      GS30MAM4830      GS30MAM4840      GS30MAM4850

**D Ø4.8**EbonyGold screw  
: GSMABSS

Angle \ G/H      2.5      3.0      4.0

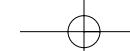
17°      GS17MAS4820      GS17MAS4830      GS17MAS4840

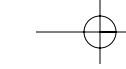
Angle \ G/H      3.5      4.0      5.0

30°      GS30MAS4830      GS30MAS4840      GS30MAS4850

TS SYSTEM

065

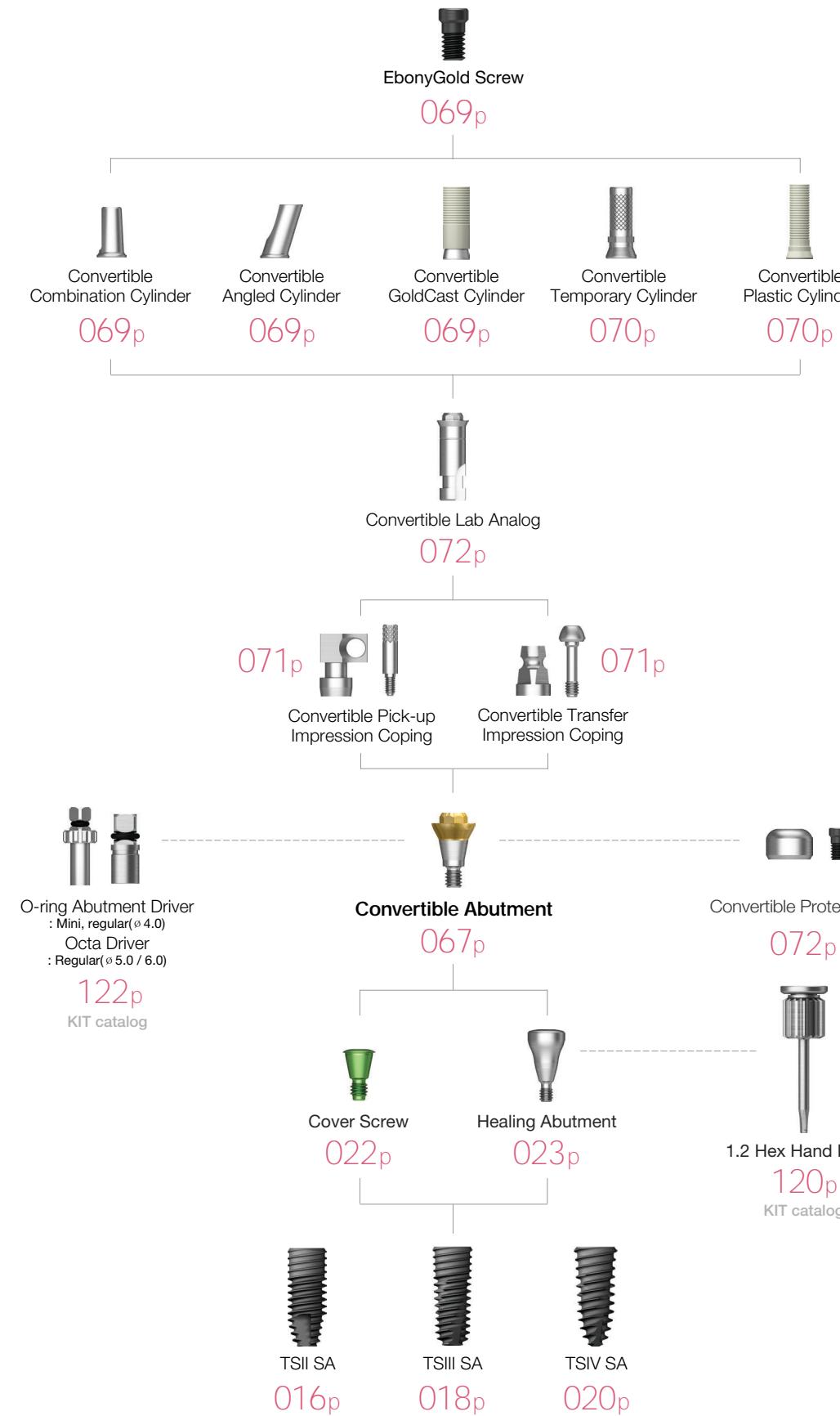
**OSSTEM®**  
IMPLANT




## PROSTHETIC FLOW DIAGRAM 5

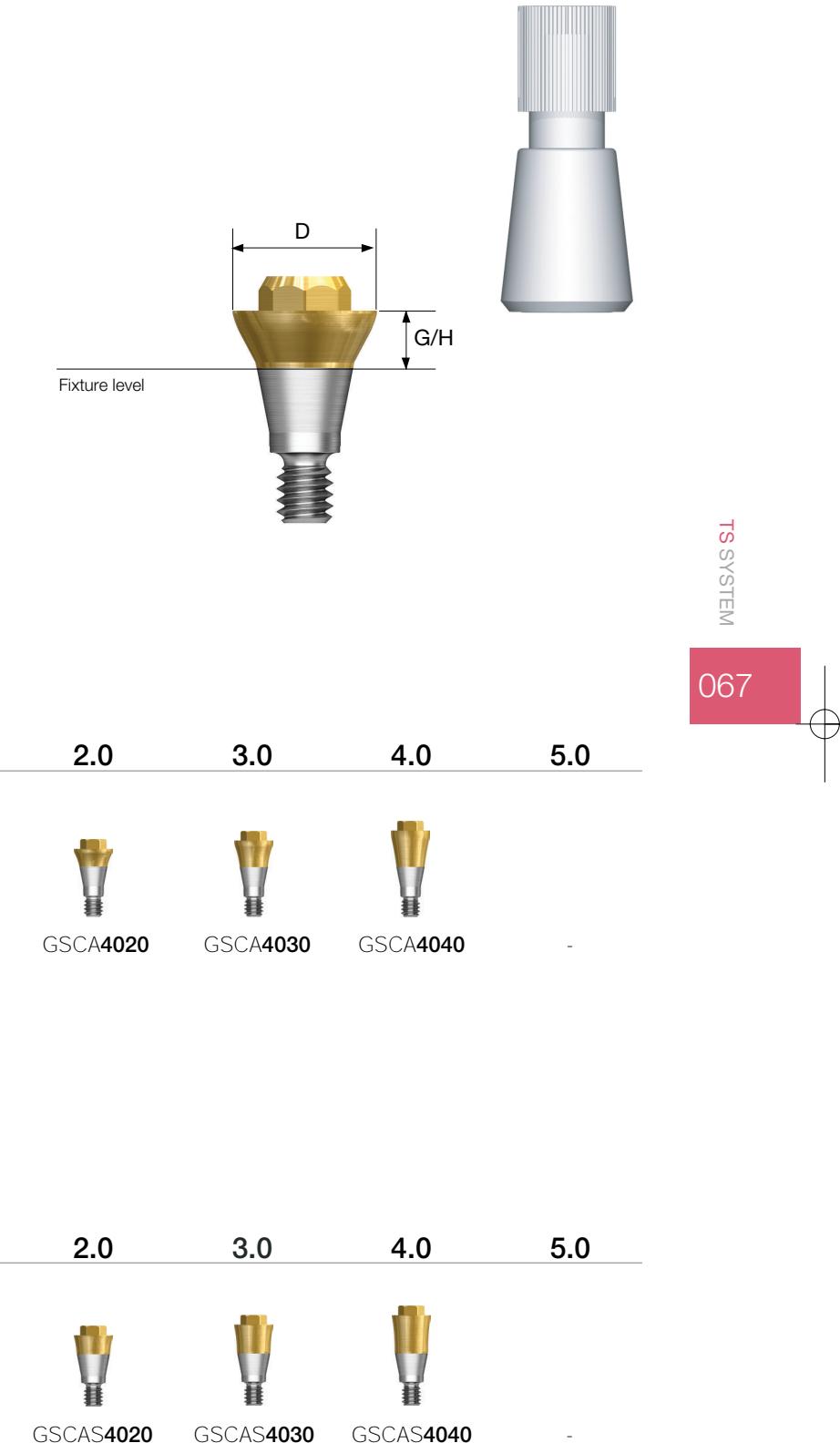
**Convertible**

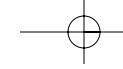
Abutment Level Impression

**Convertible Abutment**

- Screw-retained prosthesis in multiple scenarios
- Angle compensation up to 60°
- Torque using convertible abutment outer driver
  - $\varnothing 4.0$  : torque using o-ring abutment driver (code : AORD)
  - $\varnothing 5.0/6.0$  : torque using octa abutment driver (code : ODSL/ODSS)
- Recommended tightening torque : 30Ncm(mini/regular)
- Packing unit : abutment + carrier

**Abutment + carrier order code**  
: product code + P (ex : GSCA5030P)





## Convertible Abutment

D Ø5.0



G/H	1.0	2.0	3.0	4.0	5.0

GSCA5010 GSCA5020 GSCA5030 GSCA5040 GSCA5050

D Ø6.0



G/H	1.0	2.0	3.0	4.0	5.0

GSCA6010 GSCA6020 GSCA6030 GSCA6040 GSCA6050

TS SYSTEM

068

TS SYSTEM

069

## Convertible Abutment Components

### Convertible Combination Cylinder

- Combination-retained prostheses possible
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : cylinder + EbonyGold cylinder screw

**Abutment + EbonyGold screw order code**  
: product code + WH (ex : GSAC5080TWH)



D \ H	Type	Hex	7.0	Non-Hex	Octa
Ø 4.0 / Ø 4.0	GSCC4070T	GSCC4070TN	-	-	-

Ø 5.0

Ø 6.0

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

### Convertible Angled Cylinder

- Combination-retained prosthesis possible
- Angle compensation up to 17°
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : cylinder + EbonyGold cylinder screw

**Abutment + EbonyGold screw order code**  
: product code + WH (ex : GSAC5080TWH)



D \ H	Type	Hex	8.0	Non-Hex	Octa
Ø 4.0 / Ø 4.0	GSAC4080T	GSAC4080TN	-	-	-

Ø 5.0

Ø 6.0

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

### Convertible GoldCast Cylinder

- Screw-retained prosthesis
- Customized prosthesis cast with gold alloy
- Cylinder melting point: 1400~1450°C
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : cylinder + EbonyGold cylinder screw

**Abutment + EbonyGold screw order code**  
: product code + WH (ex : GSGC500WH)

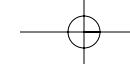


D \ H	Type	Hex	12	Non-Hex	Octa
Ø 4.0 / Ø 4.0	GSGC400	GSGC400N	-	-	-

Ø 5.0

Ø 6.0

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



## Convertible Abutment Components

### Convertible Temporary Cylinder

- Provisional prosthesis (Ti Gr-3)
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : cylinder + Ti cylinder screw

**Abutment + Ti screw order code**  
: product code + TH (ex : GSCTC500TTH)



D \ H	Type	12	
	Hex		
Ø 4.0 / Ø 4.0	GSCTC400T	GSCTC400TN	
Ø 5.0	-	-	GSCTC500T
Ø 6.0	-	-	GSCTC600T
<b>EbonyGold screw</b> : GSFSMT (Ø 4.0 / Ø 4.0) : GSFSRT (Ø 5.0 / Ø 6.0)			

### Convertible Pick-up Impression Coping

- Components for fixture level impression
- A pick-up impression coping
- Use a 1.2 hex driver (torque manually)
- Packing unit : impression coping body + guide pin(\*)



**R Regular**



D \ L      0      Guide Pin      5.0

### Convertible Plastic Cylinder

- Screw-retained prosthesis
- Customized prosthesis cast with non-precious alloys
- Use a 1.2 hex driver
- Recommended tightening torque : 20Ncm
- Packing unit : cylinder + EbonyGold cylinder screw

**Abutment + EbonyGold screw order code**  
: product code + WH (ex : GSCPL500WH)



D \ H	Type	12	
	Hex		
Ø 4.0 / Ø 4.0	GSCPL400	GSCPL400N	
Ø 5.0	-	-	GSCPL500
Ø 6.0	-	-	GSCPL600
<b>EbonyGold screw</b> : GSFSM (Ø 4.0 / Ø 4.0) : GSFSR (Ø 5.0 / Ø 6.0)			

**Ø 4.0 / Ø 4.0**  
**Ø 5.0**  
**Ø 6.0**



GSPIC400 (Hex / Yellow)  
GSPIC500 (Octa / Silver)  
GSPIC600 (Octa / Blue)

GSCGP400S      GSCGP400L\*

GSCGP500S      GSCGP500L\*

TS SYSTEM

070

071

### Convertible Transfer Impression Coping

- Transfer impression coping
- Use a 1.2 hex driver (torque manually)
- Packing unit : impression coping body + guide pin

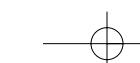


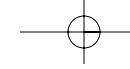
**R Regular**



**Ø 4.0 / Ø 4.0**  
**Ø 5.0**  
**Ø 6.0**

GSTIC400 (Hex / Yellow)  
GSTIC500 (Octa / Silver)  
GSTIC600 (Octa / Blue)





## Convertible Abutment Components

### Convertible Protect Cap

- Protective cap
- Use a 1.2 hex driver (fastened manually)
- Packing unit : protect cap + EbonyGold screw

**Abutment + EbonyGold screw order code**  
: product code + WH (ex : GSCHC500WH)

**M** Mini

**R** Regular

D



**Ø 4.0 / Ø 4.0**

GSCHC400 (Hex)

-

-

**Ø 5.0**

GSCHC500 (Non-Octa)

-

-

**Ø 6.0**

GSCHC600 (Non-Octa)

**EbonyGold screw**

: GSFMSM (Ø 4.0 / Ø 4.0)  
: GSFSR (Ø 5.0 / Ø 6.0)

### Convertible Lab Analog

- A lab analog
- Use a 1.2 hex driver (fastened manually)

**M** Mini

**R** Regular

D



**Ø 4.0 / Ø 4.0**

GSCLA400 (Hex)

-

-

**Ø 5.0**

GSCLA500 (Octa)

-

**Ø 6.0**

GSCLA600 (Octa)

**OSSTEM<sup>®</sup>**  
IMPLANT

### Convertible Polishing Protector

- Protects GoldCast/plastic cylinder joints during polishing process
- Use a 1.2 hex driver (torque manually)

**M** Mini

**R** Regular

D



**Ø 4.0 / Ø 4.0**

GSCPC400 (Hex)

-

-

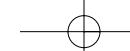
**Ø 5.0**

GSCPC500 (Octa)

-

**Ø 6.0**

GSCPC600 (Octa)

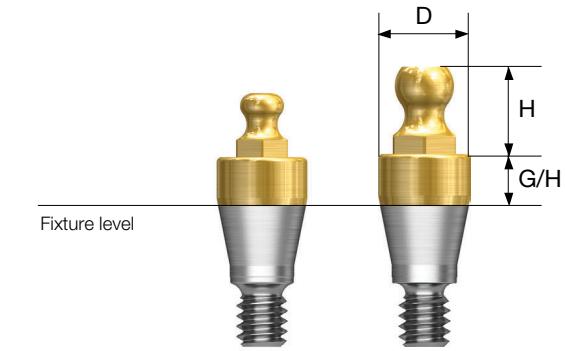




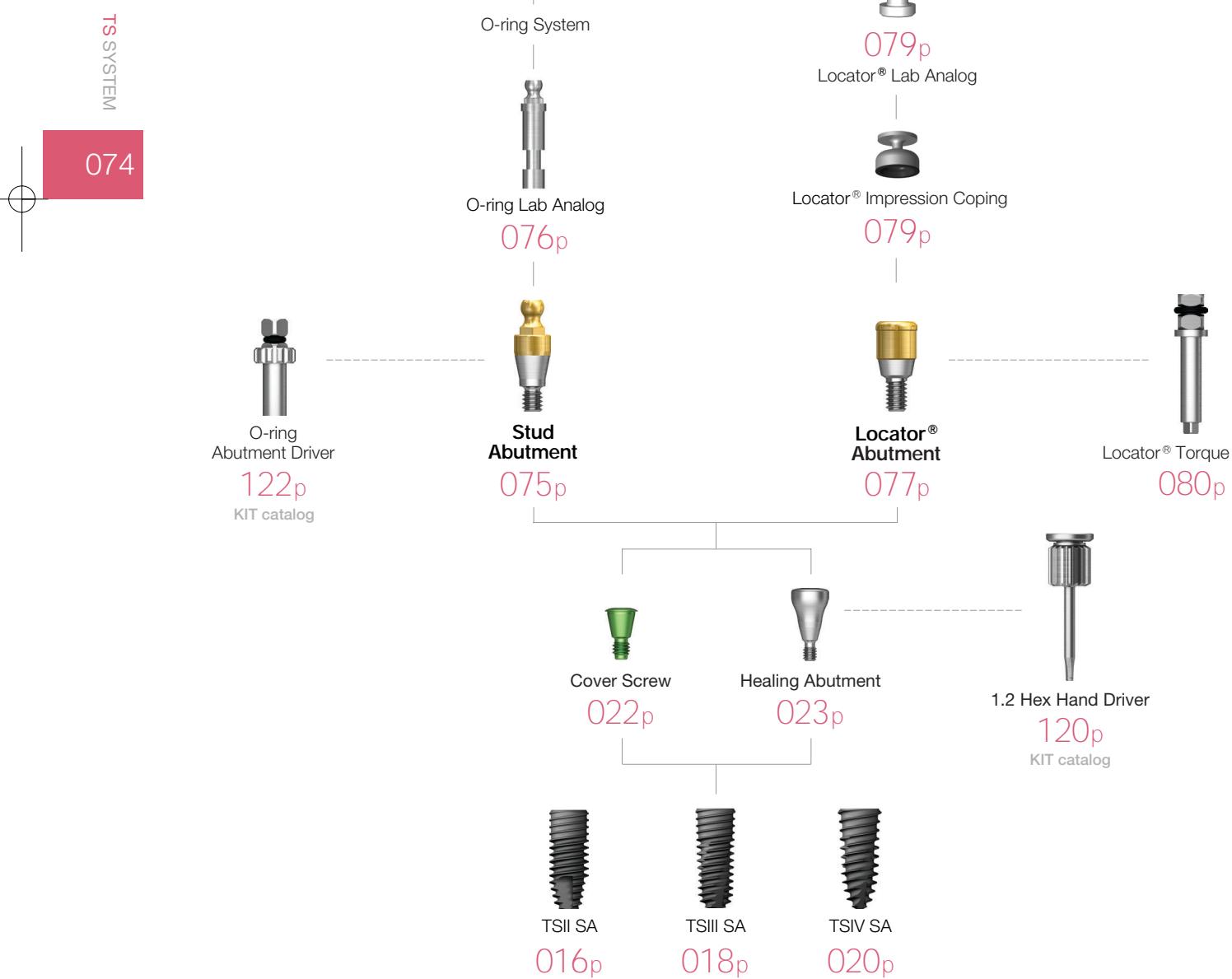
## PROSTHETIC FLOW DIAGRAM 6

**Stud / Locator®**

Overdenture

**Stud Abutment**

- Retains overdenture with o-ring system
- Angle compensation up to 20°
- Torque using outer driver (code : AORD)
- Recommended tightening torque : 30Ncm(mini/regular)
- Ball head diameter
  - Small size : ø 1.7 (H 2.5mm)
  - Normal size : ø 2.25 (H 3.4mm)

**D ø3.5****M****D ø3.5****R**



## Stud Abutment Components

### O-ring Retainer Cap Set

- O-ring housing
- Place appropriate o-ring in the metal housing before connecting to the abutment
- Packing unit : retainer cap + o-ring



RCS01

### O-ring Retainer Set

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



RS01

### O-ring Set

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



OAON01S

### O-ring Lab Analog

- A lab analog for o-ring abutment
- Packing unit : o-ring x 5ea

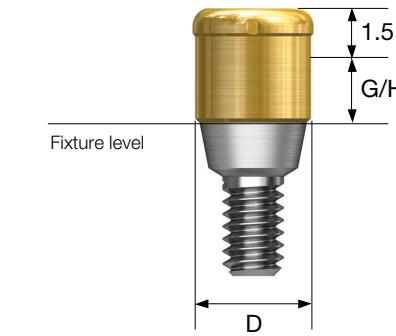


OAL

## Locator® Abutment



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

**D Ø3.7****M**

G/H 1.0 2.0 3.0 4.0 5.0



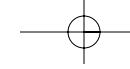
HGLCA3510M HGLCA3520M HGLCA3530M HGLCA3540M HGLCA3550M

**D Ø3.7****R**

G/H 1.0 2.0 3.0 4.0 5.0



HGLCA4010S HGLCA4020S HGLCA4030S HGLCA4040S HGLCA4050S



# Locator® Abutment Components

## Locator® Male Processing Kit

- Components
  - Block out spacer / denture cap connected black processing male
  - Replacement male blue/pink/clear
- A full range of retentive males are included with each denture cap to allow personalized retention for each specific patient
- Locator core tool places and removes nylon retentive males
- Packing unit : 2 sets



LMPS

## Locator® Replacement Male

- Retention force : approx. 6N
- Angle compensation up to 20°
- Packing unit : 4ea
  
- Retention force : approx. 12N
- Angle compensation up to 20°
- Packing unit : 4ea
  
- Retention force : approx. 22N
- Angle compensation up to 20°
- Packing unit : 4ea



LRM06S



LRM12S



LRM22S

## Locator® Extended Replacement Male

- Retention force : approx. 6N
- Angle compensation up to 20~40°
- Packing unit : 4ea
  
- Retention force : approx. 12N
- Angle compensation up to 20~40°
- Packing unit : 4ea



LEM06S



LEM12S

## Locator® Black Processing Male

- A nylon male used in prosthesis fabrication process
- Packing unit : 4ea



LBPS

## Locator® Block Out Spacers

- Place block-out spacers on the heads of the locator abutments. Position denture cap with integrated black processing onto the locator abutments. If necessary add additional block-out spacers until no gap is visible between female, block-out spacer and gum.
- Packing unit : 20ea



LBSS

## Locator® Impression Coping

- A pick up impression coping
- Closed tray
- Packing unit : 4ea



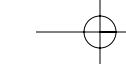
LICS

## Locator® Lab Analog

- A lab analog for locator abutment
- Packing unit : 4ea



LAL40S



## Locator® Abutment Components

### Locator® Core Tool

- Places and removes nylon retentive males in the denture cap
- Separates into three different tools, includes a hand driver for locator abutment

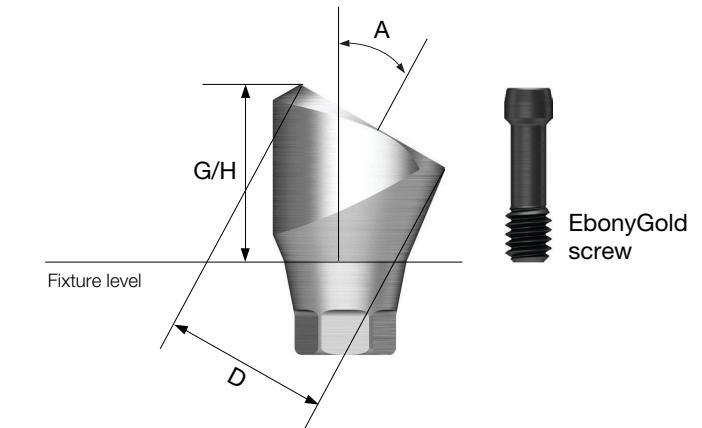


LCCT

## Port Angled Abutment

- Abutment level impression
- Angle compensation up to 60°
- Use 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 : TS30PA455RWH)



TS SYSTEM

080

### Locator® Torque Driver

- A torque driver

Type	Short	Long
	TWLD SK	TWLD LK

TS SYSTEM

081

**D Ø 4.6**

EbonyGold screw  
: GSMABSM

Angle \ G/H

4.0

5.0



TS10PA454M

TS10PA455M

10°

Angle \ G/H

4.0

5.0



TS17PA454M

17°

Angle \ G/H

4.0

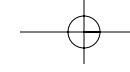
5.0



TS30PA454M

30°

TS SYSTEM



## Port Angled Abutment

**D Ø4.6**

Angle \ G/H

4.0

5.0



EbonyGold screw  
: GSMABSS

10°



TS10PA454R

TS10PA455R

Angle \ G/H

4.0

5.0

17°



TS17PA454R

TS17PA455R

Angle \ G/H

4.0

5.0

30°



TS30PA454R

TS30PA455R

## Port Angled Abutment Components

### Port Angled Abutment Head

- Torque using a locator torque driver
- Recommended tightening torque : 20Ncm
- Packing unit : abutment head + carrier



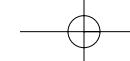
PTAAH450P

TS SYSTEM

TS SYSTEM

082

083





# Instructions for Use (AUG. 2017, Ver. 5.5)

## Description of Osstem implant system

Osstem Implant is a brand for implant materials for dental practices, and the fixture is made mainly of titanium. The abutment, prosthetic components and tools for the Osstem Implant system are compatible with the Osstem Implant fixture only. Using this product in combination with products from other manufacturers may cause various problems including loosening and fracture due to incomplete locking and compatibility issues. Refer to the manual or the catalogue or our website ([www.osstem.com](http://www.osstem.com)) for details. See the product label for the product code, specifications, manufacturing date, and expiration date.

## Sterility

The fixture, cover screw, and healing abutment are cleansed and sterilized with gamma radiation. This product is a disposable sterilized medical device intended for one-time use. In order to prevent contamination or infection of the product or operated site, the product must be used using a sterilized instrument in a sterilized environment. Damaged products, products with open packaging, or expired products must be discarded due to potential risks of contamination, infection, or osseointegration failure. Re-sterilization or re-use of the product may result in infection, osseointegration failure, or implant damage due to reduced accuracy.

## Storage condition

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

## General precautions

The surgical technology of dental implant involves an expert, complex procedure. Formal training is required to perform implant surgery. Careful considerations must be made before the operation in case of bone disorders (osteoporosis, osteomalacia) or metabolic disorders of the bone.

## Precautions

Determine the local anatomy and suitability of the available bone for implant placement. Prepare the implant considering the expected situations and cautions. 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 panoramic and periapical radiographs are essential to determine anatomical landmarks, occlusal conditions, periodontal status, and the adequacy of the bone. Adequate radiographs, direct palpation, and visual inspection of the implant site are necessary prior to implant surgery.

## Procedural precautions

Osstem Implant System is for single and two stage surgical procedures. As much as possible, try to minimize damage to the cell tissue and surgical trauma, pay special attention to maintaining the temperature at the implant site and removal of the source of contamination and infection. All drills and taps must be sufficiently and continuously irrigated for cooling during use. Implant placement should be accomplished at very low speed (25~30 rpm) or manually. Excessive torque (greater than 55Nm) in the fixture placement 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 of 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 and which integrates with angled abutment may be fractured due to limitations of structural rigidity. They are not recommended for use in a posterior area. The Ultra-Wide fixtures are intended to be used only to replace molar teeth and

that angled abutments are not to be used with the Ultra-Wide fixtures. Evaluate the quantity of bone and radiographs to assess any potential anatomical contraindications to use of the Ultra-Wide fixture. For the placement of the Short Implant (diameter is 5mm or more and length is shorter than 7mm) which is used on the molar region only, clinicians should closely examine the patients for any of the following conditions: 1) periplant bone loss, 2) changes to implant's response to percussion, 3) radiographic changes in bone to implant contact along the implant's length. If a short implant shows mobility or greater than 50% bone loss, the implant should be considered for possible removal. And clinicians should consider a two-stage surgical approach, splinting a short implant to an additional implant, and placement of the widest possible fixture. Allow longer healing periods for osseointegration before fabrication of the 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. It is recommended that you should avoid applying HA coated fixture to hard bone, and the insertion torque of the implant should be less than 35Nm, because cracks or damages might occur in the coated layer during implant placement. The surfaces of CA and SOI have the same physical shape as the SA surface made through blasting and etching treatments. After the SA surface treatment, to prevent the products' exposure to the atmosphere, CA is stored in solution, whereas SOI is stored in water-film coating form; it is designed to maintain the chemically activated state of the SA surface. Thus, CA or SOI products should be implanted in the target region at least within 15 minutes of taking them out of the container.

## Warning

The selection of inappropriate patients and surgical methods can cause implant failure or loss of bone supporting the implant. Osstem implants must not be used for purposes other than the recommended use and must not be remodeled. Implant mobility, bone loss, and chronic infection can result in failure of the implant surgery.

## Indications for use

The Osstem Implant System is an artificial dental root that has been designed for use in dental implant treatment in order to recover lost teeth. The system is implanted via a surgical method in maxillary or mandibular bone to replace natural dental root. The Osstem Implant System is indicated for use in partially or fully edentulous mandibles and maxillae, in support of single or multiple-units restorations including; cemented retained, screw retained, or overdenture restorations, and final or temporary abutment support for fixed bridgework. It is intended for delayed 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.

## Side effects

A few problems may occur after the operation (loss of implant stability, damage of prosthesis, etc.). Deficient quality and quantity of the remaining bone, infection, allergic reaction, inferior oral hygiene or uncooperativeness of patient, implant mobility, partial deterioration of tissue, and improper position or arrangement of implants may cause the above mentioned problems.

## Contraindications

Contraindications include the following, but are not limited to:

- Patients with hemophilia or difficulties related to bone or wound treatment
- Patients with uncontrollable diabetes, heavy smoker or alcoholic
- Patients whose immunity system is inactive due to chemical therapy or radiation therapy
- Patients with oral infection or inflammation (improper oral hygiene, bruxism)
- Patients with untreatable occlusion/joint disorder, insufficient dental arch space
- Any patient who is not suitable for an surgery



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



EC REP  
DEUTSCHE OSSTEM GmbH.  
Mergenthalerallee 35-37  
65760 Eschborn, Germany  
+49-(0)6196-777-5500

## Storage condition

Dry place at room temperature

## Rx only

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



**OSSTEM®**  
IMPLANT