

SS SYSTEM CATALOG

Osstem Implant
2016-17 Comprehensive Catalog

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Supervision Implant Lab, Marketing PM
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Publisher Osstem Implant
8th FL, World Meridian II, 123, Gasan digital 2-ro,
Geumcheon-gu, Seoul, Korea
Phone +82.2.2016.7000
Fax +82.2.2016.7001
www.osstem.com

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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**.

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

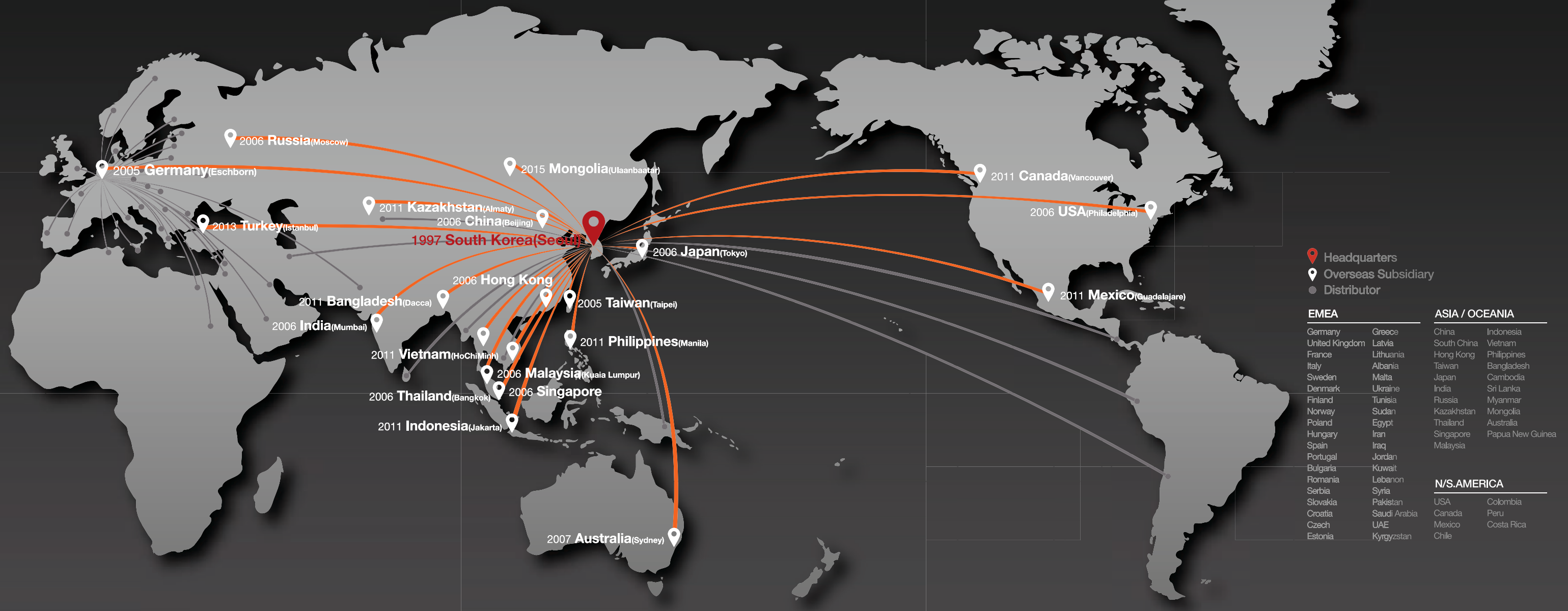
We would like to take this opportunity to express our special thanks to all of our customers. Osstem has been continuously engaged in research and development, and over the past year our efforts have led to the launch of multiple new products. We are excited to publish the 2016-17 Osstem Product Catalog, which showcases these new products and includes all the information you need to know about our fixtures, abutments, surgical tools and regenerative products. We spent countless hours editing, revising and rearranging this catalogue to make it the most comprehensive and user-friendly resource for Osstem products possible. Product codes, specifications and all the information you need about our products are at your fingertips. A number of noteworthy additions have been introduced to the 2016 - 17 Osstem Product Catalog; each product is labeled with the newest products This is unclear. Also sounds impossible.

How do you label a 'product with a product'?. All product images are at the highest resolution possible, and a comprehensive description is provided with each item to ensure customers order correctly. As well, the quality of the 2D and 3D graphical illustrations of our components has been significantly enhanced. The color-coding system has been expanded from just fixtures to include components as well as tools. In addition, complimentary products and equipment are listed "complimentary" means "free of charge". "complementary" means "compatible". Unless you plan to give your products away you may want to change this. Finally, the included QR codes link you to videos of the products being used in actual surgeries. It is our sincere hope that the 2016 - 17 Osstem Product Catalog will become an invaluable resource for you in your practice. 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

- 01** 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 TS III SA line
- 06** Launched TS III HA line
- 08** Selected as a business participating in the WPM Biomedical National Project
- 12** Users of Hanaro program exceeded 10,000

2011

- 10** Obtained 'Health Canada' certification
- 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'

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

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 'Beau TIS' whitening material

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
 - Easy path adjustments via the implant's excellent self-threading effect
 - Higher initial stability and consistent insertion torque, regardless of the drill's diameter
- Different body types to properly match the patient's bone quality and clinical condition
 - TSII (straight body type): Easy to adjust the insertion depth
 - TSIII (1.5° tapered body type): Excellent initial stability necessary for immediate loading, even in soft bone
 - TSIV (6° tapered body type): Specifically designed for the maxillary sinus and soft bone, excellent initial stability
- Available surface types - SA / CA / BA / HA

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

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

Submerged type implant with an external hex connection structure

- Internal connection type - Mini / Regular / Wide / Wide PS
- Corkscrew thread with cutting edges
 - Easy path adjustments via the implant's excellent self-threading effect
 - Higher initial stability and consistent insertion torque, regardless of the drill's diameter
- 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

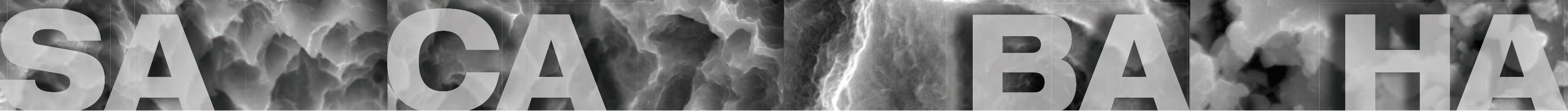


Each implant system has its own unique color code.

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

- Surface roughness value of about Ra 2.5 to 3.0 μ m
- Note: The upper 0.5mm section of the implant has a surface roughness of about Ra 0.5 to 0.6 μ m
- Consistent surface micro pits between 1 to 3 μ m
- Surface area is increased by 46 percent compared to RBM treated implants

In Bone Response

- Increased osteoblastic differentiation and ossification by 20 percent compared to RBM surface
- Initial bone response studied in animal models (mini pigs)
 - Initial stability increased initial stability by 48 percent compared to RBM surface (RT at 4 weeks)
 - Ossification rate increased ossification rate by 20 percent compared to RBM surface (BIC at 4 weeks)

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 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 low crystalline nano-HA coated SA surface

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

In Bone Response

- Advantages of both SA and HA surfaces
 - SA's ability to maintain an optimal surface morphology
 - HA's ability to form high quality initial bone, even in a poor bone quality
- Ossification rate increased by 40 percent compared to SA surfaces (BIC)
- Unlike conventional HA surfaces, it is applicable to all types of bone quality

Premium high-crystalline HA-coated surface

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

In-vitro & In-vivo Bone Response

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

SS SYSTEM Contents

016 SSII SA Fixture 	018 SSII CA Fixture 	020 SSIII SA Fixture 	022 SSIII CA Fixture 	024 SSIII HA Fixture 	048 ComOcta Angled Abutment 	049 ComOcta Retraction Cap 	049 Fixture Pick-up Impression Coping 	050 Fixture Transfer Impression Coping 	050 Fixture Lab Analog 
026 Simple Mount 	026 Cover Screw 	027 Closing Screw 	028 Healing Abutment 	031 Solid Abutment 	053 Octa Abutment 	054 Octa Protect Cap 	054 Octa Gold Cylinder 	054 Octa Combination Cylinder 	055 Octa Temporary Cylinder 
032 Solid Protect Cap 	032 Solid Retraction Cap 	033 Solid Impression Coping 	033 Solid Lab Analog 	033 Solid Burn-out Cylinder 	055 Octa Plastic Cylinder 	056 Octa Pick-up Impression Coping 	056 Octa Transfer Impression Coping 	056 Octa Lab Analog 	059 O-ring Abutment 
034 Solid Impression Cap 	034 Solid Shoulder Analog 	034 Solid Shoulder Analog Pin 	035 Excellent Solid Abutment 	036 Excellent Solid Protect Cap 	060 O-ring Retainer Cap Set 	060 O-ring Retainer Set 	060 O-ring Set 	060 O-ring Lab Analog 	061 Locator® Abutment 
036 Excellent Solid Retraction Cap 	037 Excellent Solid Impression Coping 	037 Excellent Solid Lab Analog 	037 Excellent Solid Burn-out Cylinder 	038 Excellent Solid Impression Cap 	062 Locator® Male Processing Kit 	062 Locator® Replacement Male 	062 Locator® Extended Replacement Male 	063 Locator® Black Processing Male 	063 Locator® Block Out Spacers 
038 Excellent Solid Shoulder Analog 	038 Excellent Solid Shoulder Analog Pin 	041 ComOcta Abutment 	042 ComOcta Plus Abutment 	043 ComOcta Milling Abutment 	063 Locator® Impression Coping 	063 Locator® Lab Analog 	064 Locator® Core Tool 	064 Locator® Torque Driver 	
044 ComOcta Gold Abutment 	045 ComOcta NP-Cast Abutment 	046 ComOcta Temporary Abutment 	047 SmartFit Abutment 	047 Scan Boby 					



FIXTURE

- 016** SSII SA Fixture
- 018** SSII CA Fixture
- 020** SSIII SA Fixture
- 022** SSIII CA Fixture
- 024** SSIII HA Fixture
- 026** Simple Mount
- 026** Cover Screw
- 027** Closing Screw
- 028** Healing Abutment

COMPONENTS

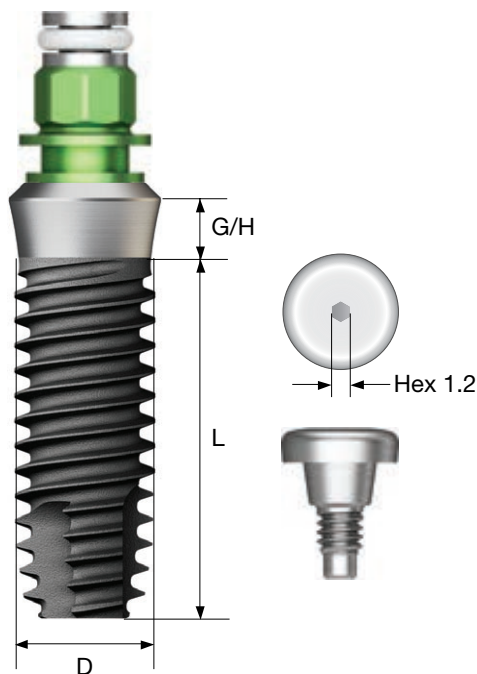
- 030** PROSTHETIC FLOW DIAGRAM 1
- 031** Solid Abutment
- 035** Excellent Solid Abutment
- 040** PROSTHETIC FLOW DIAGRAM 2
- 041** ComOcta Abutment
- 042** ComOcta Plus Abutment
- 043** ComOcta Milling Abutment
- 044** ComOcta Gold Abutment
- 045** ComOcta NP-Cast Abutment
- 046** ComOcta Temporary Abutment
- 047** SmartFit Abutment
- 048** ComOcta Angled Abutment
- 052** PROSTHETIC FLOW DIAGRAM 3
- 053** Octa Abutment
- 058** PROSTHETIC FLOW DIAGRAM 4
- 059** O-ring Abutment
- 061** Locator® Abutment

SSII SA Fixture

- Non-submerged type implant with an internal octa and 8° 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 : SS2R4011S18)

Pre-Mounted fixture (fixture + simple mount + cover screw) order code
: A + fixture product code (ex : ASS2R4011S18)



D Ø5.0
P Ø6.0
W

G/H \ L	6	7	8.5	10	11.5	13
	Short					

2.0 SS2W5006S20 SS2W5007S20 SS2W5008S20 SS2W5010S20 SS2W5011S20 SS2W5013S20

016

SS SYSTEM

D Ø4.0
P Ø4.8
R

G/H \ L	7	8.5	10	11.5	13

1.8 SS2R4007S18 SS2R4008S18 SS2R4010S18 SS2R4011S18 SS2R4013S18
2.8 SS2R4008S28 SS2R4010S28 SS2R4011S28 SS2R4013S28

D Ø4.5
P Ø4.8
R

G/H \ L	7	8.5	10	11.5	13

1.8 SS2R4507S18 SS2R4508S18 SS2R4510S18 SS2R4511S18 SS2R4513S18
2.8 SS2R4508S28 SS2R4510S28 SS2R4511S28 SS2R4513S28

D Ø4.5
P Ø6.0
W

G/H \ L	7	8.5	10	11.5	13

2.0 SS2W4507S20 SS2W4508S20 SS2W4510S20 SS2W4511S20 SS2W4513S20

017

SS SYSTEM

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.

SSII CA Fixture

- Non-submerged type implant with an internal octa and 8° tapered connection
- Super-hydrophilic SA surface suspended in a calcium solution
- 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

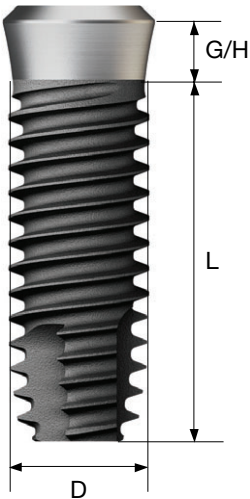
Ultra-wide

- Ideal for an extracted tooth site in the posterior area, for immediate placement, or for replacing a failed implant
- Apex is designed specially for excellent initial stability in an extracted tooth site
- 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 : SS2R4010C18)



D Ø5.0
P Ø6.0



G/H \ L	6	7	8.5	10	11.5	13
	Short					

2.0 SS2W5006C20 SS2W5007C20 SS2W5008C20 SS2W5010C20 SS2W5011C20 SS2W5013C20

Ultra-wide

D Ø6.0
P Ø6.0



G/H \ L	6	7	8.5	10	11.5	13
	Short					

2.0 SS2WB6006C20 SS2WB6007C20 SS2WB6008C20 SS2WB6010C20 SS2WB6011C20 SS2WB6013C20

D Ø7.0
P Ø6.0



G/H \ L	6	7	8.5	10	11.5	13
	Short					

2.0 SS2WB7006C20 SS2WB7007C20 SS2WB7008C20 SS2WB7010C20 SS2WB7011C20 SS2WB7013C20

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.

D Ø4.0
P Ø4.8



G/H \ L	7	8.5	10	11.5	13
1.8	SS2R4007C18	SS2R4008C18	SS2R4010C18	SS2R4011C18	SS2R4013C18
2.8		SS2R4008C28	SS2R4010C28	SS2R4011C28	SS2R4013C28

D Ø4.5
P Ø4.8



G/H \ L	7	8.5	10	11.5	13
1.8	SS2R4507C18	SS2R4508C18	SS2R4510C18	SS2R4511C18	SS2R4513C18
2.8		SS2R4508C28	SS2R4510C28	SS2R4511C28	SS2R4513C28

D Ø4.5
P Ø6.0



G/H \ L	7	8.5	10	11.5	13
2.0	SS2W4507C20	SS2W4508C20	SS2W4510C20	SS2W4511C20	SS2W4513C20

SSIII SA Fixture

- Non-submerged type implant with an internal octa and 8° tapered connection
- Optimized screw thread design with the ideal SA surface
- Tapered body design with high initial stability
- Excellent initial stability in soft bone due to the small thread on the upper part
- Corkscrew threading with excellent self-threading effect
- Excellent initial stability necessary for immediate loading, even in soft bone

Ultra-wide

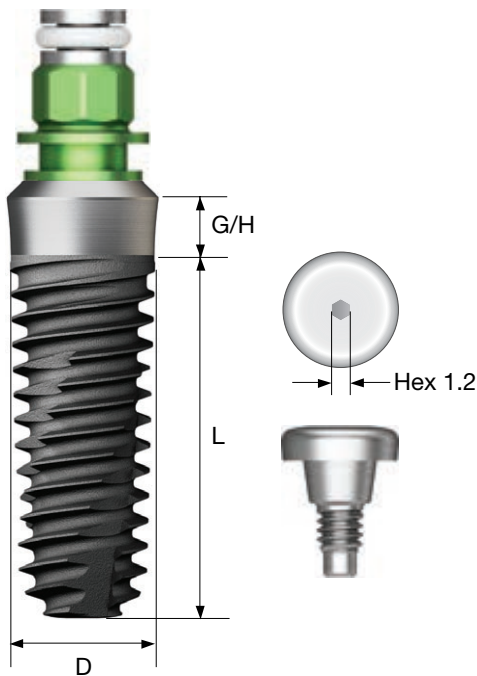
- Ideal for an extracted tooth site in the posterior area, for immediate placement, or for replacing a failed implant
- Apex is specifically design for excellent initial stability in an extracted tooth site
- Recommended insertion torque: ≤40 Ncm
- ※ Fixtures with a diameter of 4.5mm or more are recommended for the posterior area.

NoMount fixture order code

: fixture product code (ex : SS3R4011S18)

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

: A + fixture product code (ex : ASS3R4011S18)



D Ø4.5
P Ø6.0
W

G/H \ L	7	8.5	10	11.5	13
2.0	SS3W4507S20	SS3W4508S20	SS3W4510S20	SS3W4511S20	SS3W4513S20

D Ø5.0
P Ø6.0
W

G/H \ L	6	7	8.5	10	11.5	13
2.0	SS3W5006S20	SS3W5007S20	SS3W5008S20	SS3W5010S20	SS3W5011S20	SS3W5013S20

Ultra-wide

D Ø6.0
P Ø6.0
W

G/H \ L	6	7	8.5	10	11.5	13
2.0	SS3WB6006S20	SS3WB6007S20	SS3WB6008S20	SS3WB6010S20	SS3WB6011S20	SS3WB6013S20

D Ø7.0
P Ø6.0
W

G/H \ L	6	7	8.5	10	11.5	13
2.0	SS3WB7006S20	SS3WB7007S20	SS3WB7008S20	SS3WB7010S20	SS3WB7011S20	SS3WB7013S20

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.

D Ø3.5
P Ø4.8
R

G/H \ L	8.5	10	11.5	13
1.8	SS3R3508S18	SS3R3510S18	SS3R3511S18	SS3R3513S18
2.8	SS3R3508S28	SS3R3510S28	SS3R3511S28	SS3R3513S28

D Ø4.0
P Ø4.8
R

G/H \ L	7	8.5	10	11.5	13
1.8	SS3R4007S18	SS3R4008S18	SS3R4010S18	SS3R4011S18	SS3R4013S18
2.8	SS3R4008S28	SS3R4010S28	SS3R4011S28	SS3R4013S28	

D Ø4.5
P Ø4.8
R

G/H \ L	7	8.5	10	11.5	13
1.8	SS3R4507S18	SS3R4508S18	SS3R4510S18	SS3R4511S18	SS3R4513S18
2.8		SS3R4508S28	SS3R4510S28	SS3R4511S28	SS3R4513S28

SSIII CA Fixture

- Non-submerged type implant with an internal octa and 8° tapered connection
- Tapered body design with high initial stability
- Corkscrew threading with excellent self-threading effect
- Excellent initial stability necessary for immediate loading, even in soft bone

Ultra-wide

- Ideal for an extracted tooth site in the posterior area, for immediate placement, or for replacing a failed implant
- Apex is designed specially for excellent initial stability in an extracted tooth site
- 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 : SS3R4011C18)



D Ø4.5
P Ø6.0



G/H \ L	7	8.5	10	11.5	13
2.0	SS3W4507C20	SS3W4508C20	SS3W4510C20	SS3W4511C20	SS3W4513C20

D Ø5.0
P Ø6.0



G/H \ L	6	7	8.5	10	11.5	13
2.0	SS3W5006C20	SS3W5007C20	SS3W5008C20	SS3W5010C20	SS3W5011C20	SS3W5013C20

Ultra-wide

D Ø6.0
P Ø6.0



G/H \ L	6	7	8.5	10	11.5	13
2.0	SS3WB6006C20	SS3WB6007C20	SS3WB6008C20	SS3WB6010C20	SS3WB6011C20	SS3WB6013C20

D Ø7.0
P Ø6.0



G/H \ L	6	7	8.5	10	11.5	13
2.0	SS3WB7006C20	SS3WB7007C20	SS3WB7008C20	SS3WB7010C20	SS3WB7011C20	SS3WB7013C20

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.

022

SS SYSTEM

D Ø3.5
P Ø4.8



G/H \ L	8.5	10	11.5	13
1.8	SS3R3508C18	SS3R3510C18	SS3R3511C18	SS3R3513C18
2.8	SS3R3508C28	SS3R3510C28	SS3R3511C28	SS3R3513C28

D Ø4.0
P Ø4.8



G/H \ L	7	8.5	10	11.5	13
1.8	SS3R4007C18	SS3R4008C18	SS3R4010C18	SS3R4011C18	SS3R4013C18
2.8	SS3R4008C28	SS3R4010C28	SS3R4011C28	SS3R4013C28	

D Ø4.5
P Ø4.8



G/H \ L	7	8.5	10	11.5	13
1.8	SS3R4507C18	SS3R4508C18	SS3R4510C18	SS3R4511C18	SS3R4513C18
2.8	SS3R4508C28	SS3R4510C28	SS3R4511C28	SS3R4513C28	

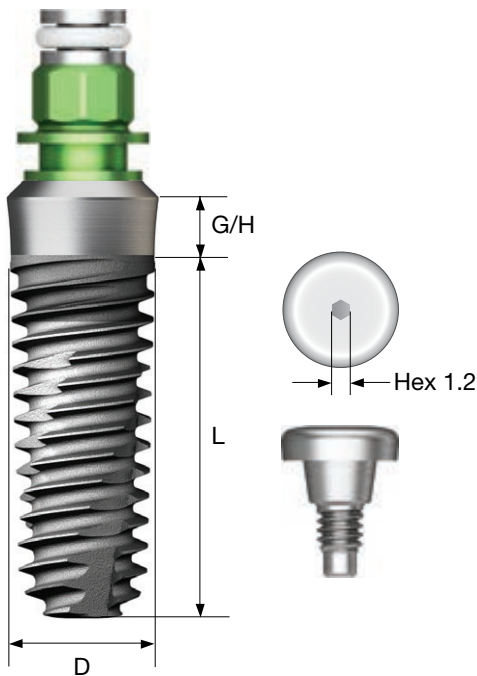
023

SS SYSTEM

SSIII HA Fixture

- Non-submerged type implant with an internal octa and 8° tapered connection
- Premium high-crystalline HA-coated surface
- Tapered body design with high initial stability
- Corkscrew threading with excellent self-threading effect
- Excellent initial stability necessary for immediate loading, even in soft bone
- Recommended insertion torque: ≤40 Ncm
- ※ Fixtures with a diameter of 4.5mm or more are recommended for the posterior area
- ※ Recommended to use carefully, as the high-crystalline HA coating has a risk of fracturing or flaking off

Pre-Mounted fixture (fixture + simple mount + cover screw) order code
: A + fixture product code (ex : ASS3R4011H18)



D Ø5.0
P Ø6.0
W

G/H \ L	6	7	8.5	10	11.5	13
	Short					
2.0	SS3W5006H20	SS3W5007H20	SS3W5008H20	SS3W5010H20	SS3W5011H20	SS2W5013H20

024

D Ø4.0
P Ø4.8
R

G/H \ L	7	8.5	10	11.5	13
1.8	SS3R4007H18	SS3R4008H18	SS3R4010H18	SS3R4011H18	SS3R4013H18
2.8		SS3R4008H28	SS3R4010H28	SS3R4011H28	SS3R4013H28

D Ø4.5
P Ø4.8
R

G/H \ L	7	8.5	10	11.5	13
1.8	SS3R4507H18	SS3R4508H18	SS3R4510H18	SS3R4511H18	SS3R4513H18
2.8		SS3R4508H28	SS3R4510H28	SS3R4511H28	SS3R4513H28

D Ø4.5
P Ø6.0
W

G/H \ L	7	8.5	10	11.5	13
2.0	SS3W4507H20	SS3W4508H20	SS3W4510H20	SS3W4511H20	SS3W4513H20

025

SS SYSTEM

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.

Mount & Screw

Simple Mount

- Select appropriate mount according to the fixture platform
- Use a 1.2 hex driver (fasten manually)
- ※ Disposable; re-use is not allowed
- P = Platform

R Regular

W Wide

P

R



SSH**RG**

W



SSH**WB**

Closing Screw

- Use when there is insufficient soft tissue
- Use a 1.2 hex driver (fasten manually)
- P = Platform

R Regular

W Wide

P

R



SSCS**480N**

W



SSCS**600N**

Cover Screw

- Select appropriate mount according to the fixture platform
- Use a 1.2 hex driver (fasten manually)
- P = Platform

R Regular

W Wide

P

R



SSCS**480**

W



SSCS**600**

Healing Abutment

- Select appropriate mount according to the fixture platform
- Use a 1.2 hex driver (fasten manually)

R Regular
W Wide



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028

SS SYSTEM

D \ H	2.0	3.0	4.0	5.0
Ø 4.8	 SSH482	 SSH483	 SSH484	 SSH485

D \ H	2.0	3.0	4.0	5.0
Ø 6.0	-	 SSH603	 SSH604	 SSH605

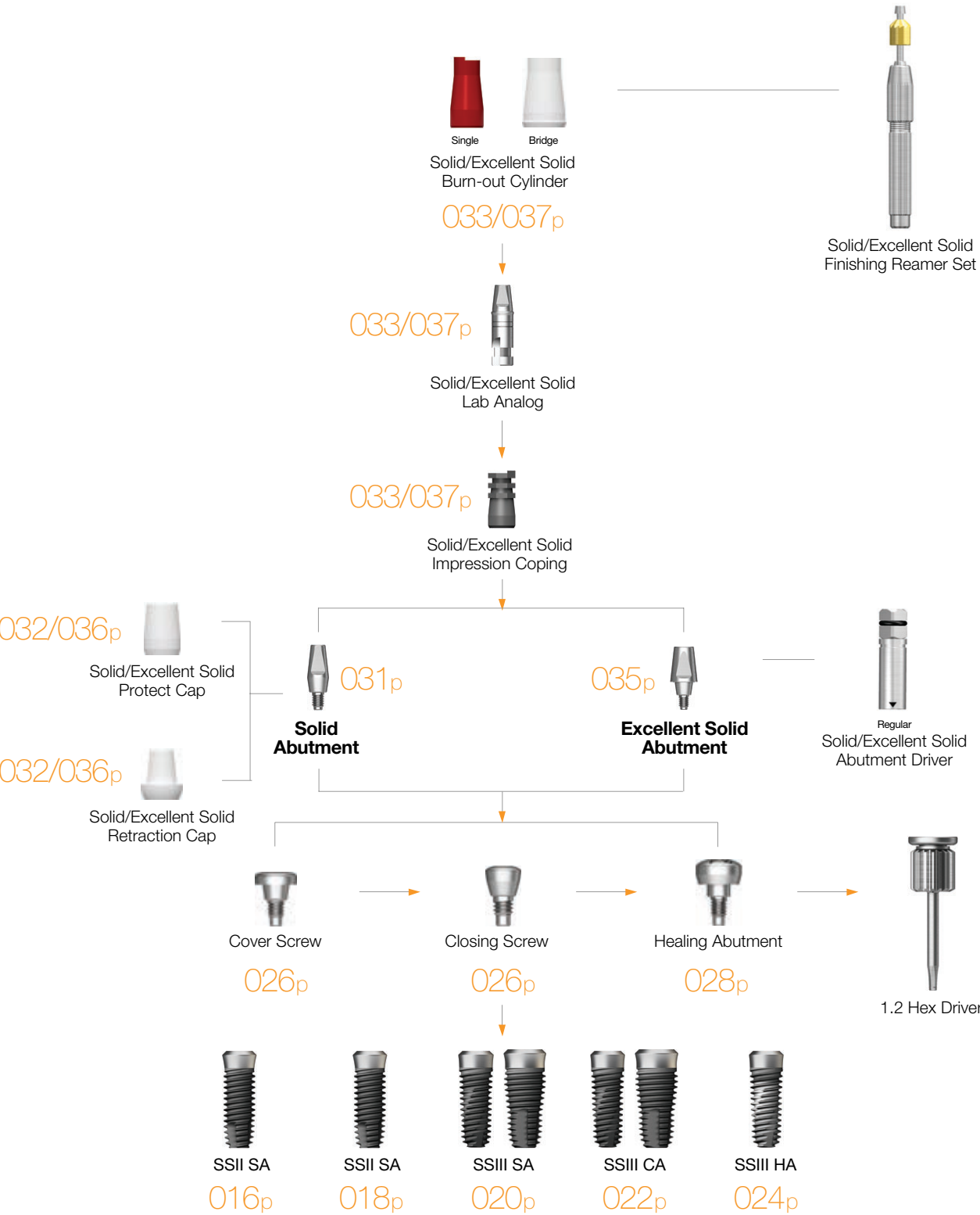
029

SS SYSTEM

PROSTHETIC FLOW DIAGRAM 1

Solid / Excellent Solid

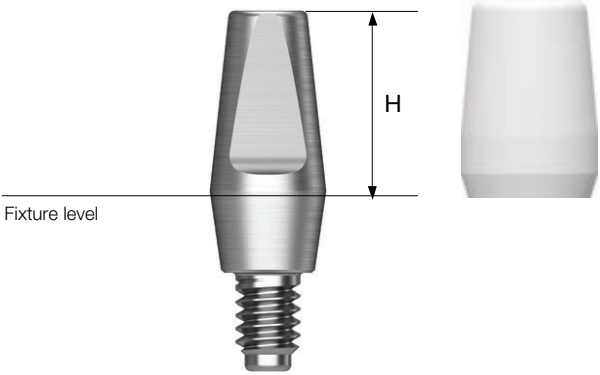
Abutment Level Impression



Solid Abutment

- Cement-retained prosthesis
- Abutment level impression
- $\varnothing 4.8$: Connect using a solid abutment driver (code: SDSL/SDSS)
- $\varnothing 6.0$: Connect using a 1.2 hex driver or solid abutment driver
- Recommended tightening torque: 30Ncm
- Packing unit : abutment + protect cap

Abutment + protect cap order code
: product code + **P** (ex : SSS485**P**)



D $\varnothing 4.8$

R

H	4.0	5.5	7.0
			
	SSS484	SSS485	SSS487

D $\varnothing 6.0$

W

H	4.0	5.5	7.0
			
	SSS604	SSS605	SSS607

Solid Abutment Components

Solid Protect Cap

- Protects the solid abutment and minimizes patient irritation
- Can be used as the base for a provisional crown

R Regular
W Wide

D \ H	4.0	5.5	7.0
Ø 4.8	 SSC484	 SSC485	 SSC487
Ø 6.0	 SSC604	 SSC605	 SSC607

Solid Impression Coping

- Color coded by abutment height

R Regular
W Wide

D \ H	4.0	5.5	7.0
Ø 4.8	 SSIC484	 SSIC485	 SSIC487
Ø 6.0	 SSIC604	 SSIC605	 SSIC607

Solid Retraction Cap

- Used for accurate margin reproduction when taking a direct impression
- Can be used as the base for a provisional crown

R Regular
W Wide

D \ H	4.0	5.5	7.0
Ø 4.8	 SSSRC484	 SSSRC485	 SSSRC487
Ø 6.0	 SSSRC604	 SSSRC605	 SSSRC607

Solid Lab Analog

- Connect to the appropriate color coded rigid impression coping

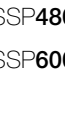
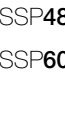
R Regular
W Wide

D \ H	4.0	5.5	7.0
Ø 4.8	 SSSA484	 SSSA485	 SSSA487
Ø 6.0	 SSSA604	 SSSA605	 SSSA607

Solid Burn-out Cylinder

- Used after casting, clean the margin for proper fitting

R Regular
W Wide

D \ H	Single	Bridge
Ø 4.8	 SSSP480S	 SSSP480B
Ø 6.0	 SSSP600S	 SSSP600B

Solid Abutment Components

Solid Impression Cap

- An impression cap used when the solid abutment is trimmed
- Used with a solid shoulder analog and analog pin

R Regular
W Wide

D

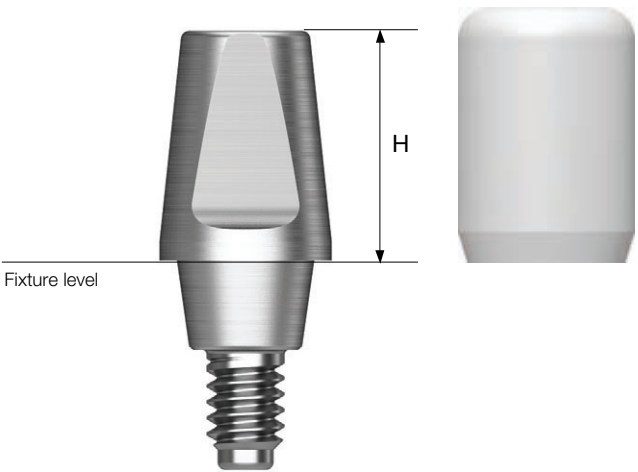
ø 4.8
ø 6.0


SSIP480
SSIP600

Excellent Solid Abutment

- Cement-retained prosthesis
- Ideal for molar cases due to its larger volume (compared to the solid abutment), trim as needed
- Abutment level impression
- ø 4.8: Connect using a 1.2 hex driver or an excellent solid abutment driver (code: ESDSS/ESDSL)
- ø 6.0: Connect using a 1.2 hex driver or an 60S excellent solid abutment driver (code: ESD60S)
- Recommended tightening torque: 30Ncm
- Packing unit : abutment + protect cap

Abutment + protect cap order code
: product code + **P** (ex : SSE485**P**)



Solid Shoulder Analog

- Lab analog for solid impression cap impressions
- Used with solid impression cap and shoulder analog pin

R Regular
W Wide

D

ø 4.8
ø 6.0


SSSLA480
SSSLA600

D ø 4.8
R

H

4.0

5.5

7.0


SSE484


SSE485


SSE487

Solid Shoulder Analog Pin

- An impression coping component used when the solid abutment is trimmed
- Reinforces the narrow part of the abutment
- Used with a solid shoulder analog and impression cap

R Regular
W Wide

D

ø 4.8
ø 6.0


SSSAP480

D ø 6.0
W

H

4.0

5.5

7.0


SSE604


SSE605


SSE607

Excellent Solid Abutment Components

Excellent Solid Protect Cap

- Protects the solid abutment and minimizes patient irritation
- Can be used as the base for a provisional crown

R Regular

W Wide

D \ H	4.0	5.5	7.0
			
	SSEC484	SSEC485	SSEC487
	SSEC604	SSEC605	SSEC607

Ø 4.8

Ø 6.0

Excellent Solid Impression Coping

- Color coded by abutment height

R Regular

W Wide

D \ H	4.0	5.5	7.0
			
	SSEIC484	SSEIC485	SSEIC487
	SSEIC604	SSEIC605	SSEIC607

Ø 4.8

Ø 6.0

Excellent Solid Retraction Cap

- Used for accurate margin reproduction when taking a direct impression
- Can be used as the base for a provisional crown

R Regular

W Wide

D \ H	4.0	5.5	7.0
			
	SSERC484	SSERC485	SSERC487
	SSERC604	SSERC605	SSERC607

Ø 4.8

Ø 6.0

Excellent Solid Lab Analog

- Connect to the appropriate color coded rigid impression coping

R Regular

W Wide

D \ H	4.0	5.5	7.0
			
	SSEA484	SSEA485	SSEA487
	SSEA604	SSEA605	SSEA607

Ø 4.8

Ø 6.0

Excellent Solid Burn-out Cylinder

- Used after casting, clean the margin for proper fitting

R Regular

W Wide

D \ H	Single	Bridge
		
	SSEP480S	SSEP480B
	SSEP600S	SSEP600B

Ø 4.8

Ø 6.0

036

SS SYSTEM

037

SS SYSTEM

Excellent Solid Abutment Components

Excellent Solid Impression Cap

- An impression cap used when the solid abutment is trimmed
- Used with an excellent solid shoulder analog and an analog pin

R Regular

W Wide

D



SSEIP**480**

SSEIP**600**

Ø **4.8**

Ø **6.0**

Excellent Solid Shoulder Analog

- Lab analog for Solid Impression Cap impressions
- Used with an excellent solid impression cap and a shoulder analog pin

R Regular

W Wide

D



SSSLA**480**

SSSLA**600**

Ø **4.8**

Ø **6.0**

Excellent Solid Shoulder Analog Pin

- An impression coping component used when the solid abutment is trimmed
- Reinforces the narrow part of the abutment
- Used with an excellent solid shoulder analog and an impression cap

R Regular

W Wide

D



SSSAP**480**

Ø **4.8**

Ø **6.0**

OSSTEM[®]
IMPLANT

038

SS SYSTEM

039

SS SYSTEM



-

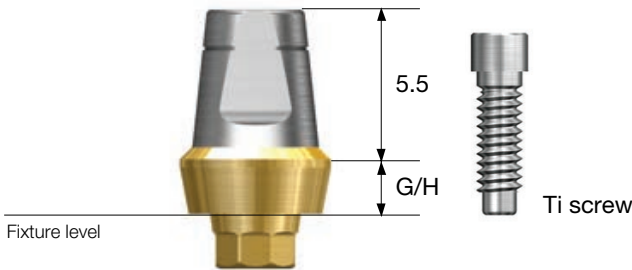
H	4.0	5.5	7.0	4.0	5.5	7.0
Type	Octa			Non-Octa		
						
	SSCA604	SSCA605	SSCA607	SSCA604N	SSCA605N	SSCA607N

ComOcta Plus Abutment

ComOcta Milling Abutment

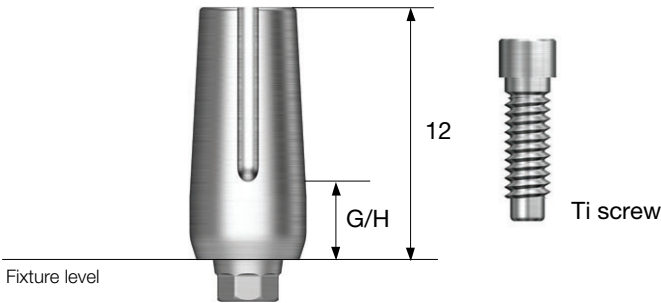
- Cement/combination-retained prosthesis
- Use when the gingiva is thick or the fixture is inserted deeply
- Abutment fastens to the platform at a 45° angle
- Fixture level impression
- Use a 1.2 hex driver
- Recommended tightening torque: 30Ncm
- Packing unit : abutment + Ti screw

Abutment + Ti screw order code
: product code + TH (ex : SSCAP4826CTH)



- Cement/combination-retained prosthesis
- Used when the abutment's margin shape needs corrections
- Abutment fastens to the platform at a 45° angle
- Fixture level impression
- Use a 1.2 hex driver
- Recommended tightening torque: 30Ncm
- Packing unit : abutment + Ti screw

Abutment + Ti screw order code
: product code + TH (ex : SSCMA4830TH)



042

D Ø4.8



Ti screw
: ASR200

	G/H	1.0	2.0	3.0	4.0
Octa					
Non-Octa		SSCAP4816C	SSCAP4826C	SSCAP4836C	SSCAP4846C
		SSCAP4816CN	SSCAP4826CN	SSCAP4836CN	SSCAP4846CN

D Ø6.0



Ti screw
: ASR200

	G/H	1.0	2.0	3.0	4.0
Octa					
Non-Octa		SSCAP6016C	SSCAP6026C	SSCAP6036C	SSCAP6046C
		SSCAP6016CN	SSCAP6026CN	SSCAP6036CN	SSCAP6046CN

D Ø4.8



Ti screw
: ASR200

G/H	3.0
	SSCMA4830

D Ø6.0



Ti screw
: ASR200

G/H	3.0
	SSCMA6030

043

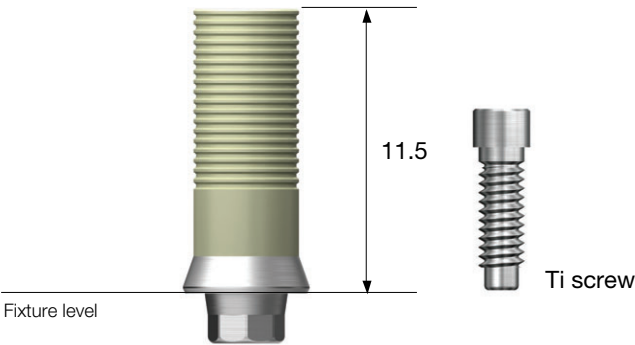
SS SYSTEM

ComOcta Gold Abutment

ComOcta NP-Cast Abutment

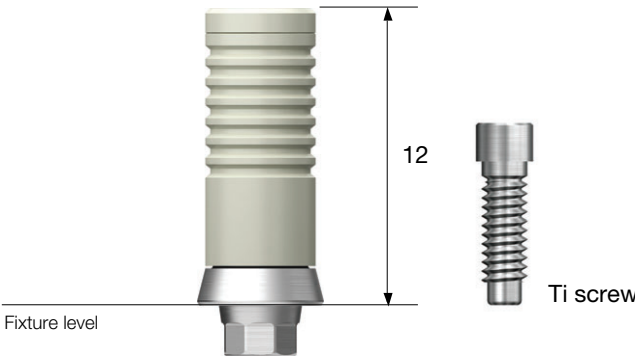
- Cement/combination/screw-retained prosthesis
- Customized prosthesis cast with gold alloy
- Abutment fastens to the platform at a 45° angle
- Abutment melting point: 1400~1450°C
- Fixture level impression
- Use a 1.2 hex driver
- Recommended tightening torque: 30Ncm
- Packing unit : abutment + Ti screw

Abutment + Ti screw order code
: product code + TH (ex : COG480STH)



- Cement/combination/screw-retained prosthesis
- Customized prosthesis cast with non-precious alloys
- Abutment fastens to the platform at a 45° angle
- Abutment melting point: 1400~1450°C
- Fixture level impression
- Use a 1.2 hex driver
- Recommended tightening torque: 30Ncm
- Packing unit : abutment + Ti screw

Abutment + Ti screw order code
: product code + TH (ex : CON480STH)



044

SS SYSTEM

D Ø4.8	Type	Octa	Non-Octa
			
Ti screw : ASR200		COG480S	COG480B

D Ø6.0	Type	Octa	Non-Octa
			
Ti screw : ASR200		COG600S	COG600B

045

SS SYSTEM

D Ø4.8	Type	Octa	Non-Octa
			
Ti screw : ASR200		CON480S	CON480B

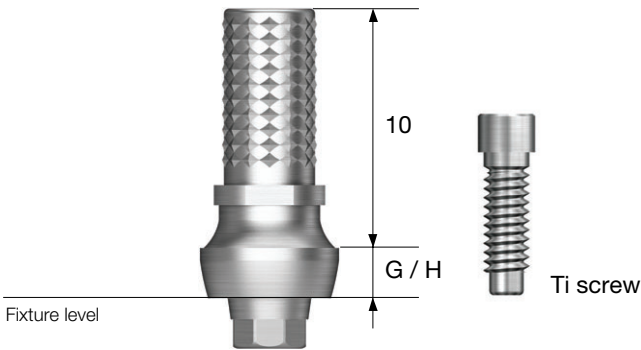
D Ø6.0	Type	Octa	Non-Octa
			
Ti screw : ASR200		CON600S	CON600B

ComOcta Temporary Abutment

SmartFit Abutment

- Cement/screw-retained prosthesis
- A trim able provisional prosthesis (made of Ti Gr-3)
- Fixture level impression
- Use a 1.2 hex driver
- Recommended tightening torque: 20Ncm
- Packing unit : abutment + Ti screw

Abutment + Ti screw order code
: product code + TH (ex : SSTAO480TH)



- Cement/combination-retained prosthesis
- CAD/CAM designed and milled customized abutments
- Fixture level impression
- Lead time (by working days)
 - Titanium: 5 days
 - Titanium + gold color: 7 days
- Use a 1.2 hex driver
- Recommended tightening torque: 30Ncm
- Packing unit : abutment + Ti screw



046

D Ø4.8



Ti screw
: ASR200

G/H	0	2.0	0	2.0
Type	Octa	Non-Octa	Octa	Non-Octa
	SSTAO480	SSTAO482	SSTAN480	SSTAN482

D Ø6.0



Ti screw
: ASR200

G/H	0	2.0	0	2.0
Type	Octa	Non-Octa	Octa	Non-Octa
	SSTAO600	SSTAO602	SSTAN600	SSTAN602

Scan Baby

- Scan body for manufacturing a titanium SmartFit abutment
- Use a 1.2 hex driver (fastened manually)
- Packing unit : scan body + Ti screw

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

R Regular

W Wide

- Titanium SmartFit abutment 제작용 scan body
- 1.2 hex driver로 손 힘으로 체결
- Packing unit : scan body + Ti screw

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

047

SS SYSTEM



Green color screw
: USSBRS



Green color screw
: USSBW



ComOcta Abutment Components

Fixture Transfer Impression Coping

- For closed tray impressions
- Triangular arc enabling precise placement
- Use a 1.2 hex driver (torque manually)
- Packing unit
 - Octa : impression coping body + guide pin
 - Non-octa : impression coping

R Regular (Silver)

W Wide (Blue)

D \ L	9.5		12.5		9.5		12.5	
	Type		Octa		Non-Octa			
								
	SSCTIS480 SSCTIS600		SSCTIL480 SSCTIL600		SSCTIS480N SSCTIS600N		SSCTIL480N SSCTIL600N	

OSSTEM[®]
IMPLANT

Fixture Lab Analog

- A lab analog for fixture level impression
- Select an appropriate fixture platform; Ø 4.8 or Ø 6.0

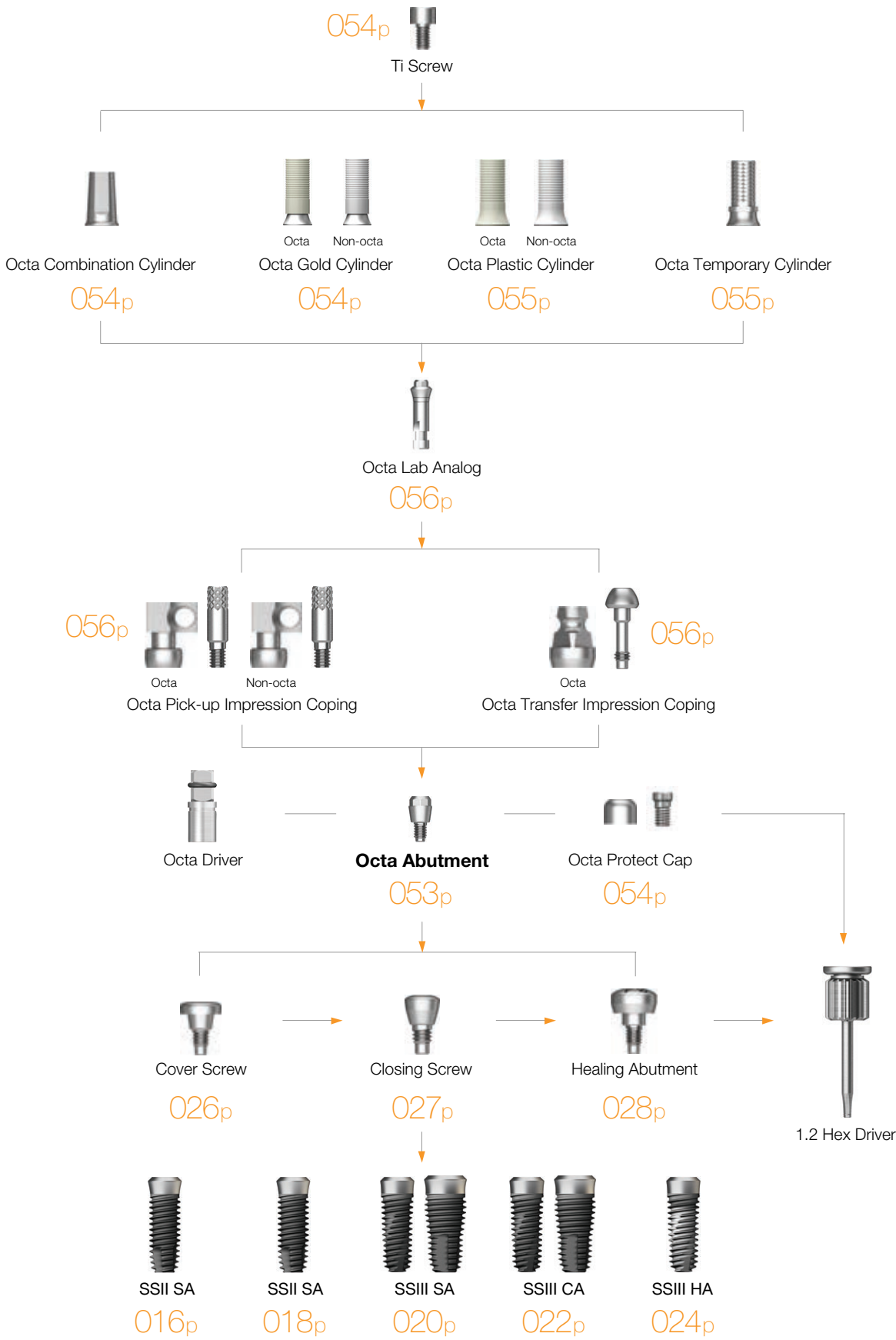
R Regular (Silver)

W Wide (Blue)

D \ L	
	
	SSFA480 SSFA600

Octa

Abutment Level Impression



Octa Abutment

- Screw-retained prosthesis for multiple prosthetic options
- Angle compensation of up to 60°
- Use a dedicated outer driver (code: ODSL/ODSS)
- Recommended tightening torque: 30Ncm



D Ø4.8



D Ø6.0



SSOA480

SSOA600

053

SS SYSTEM

052

SS SYSTEM

Octa Abutment Components

Octa Protect Cap

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

Protect cap + Ti screw order code
: product code + TH (ex : SSHC480TH)

- R

Regular
- W

Wide

D	
	
Ø 4.8	SSHHC480
Ø 6.0	SSHHC600
Ti screw	
: SSFS (Ø 4.8 / Ø 6.0)	

Octa Gold Cylinder

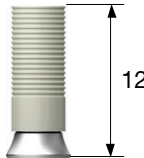
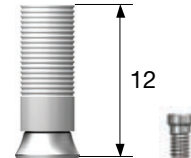
- Screw-retained prosthesis
- Customized prosthesis cast with gold alloy
- Cylinder melting point: 1400~1450°C
- Fastened using a 1.2 hex driver
- Recommended tightening torque: 20Ncm
- Packing unit : cylinder + Ti cylinder screw

Cylinder + Ti screw order code
: product code + TH (ex : SSGCO480TH)

- R

Regular
- W

Wide

D	Type	Octa	Non-Octa
			
Ø 4.8		SSGCO480	SSGCN480
Ø 6.0		SSGCO600	SSGCN600
Ti screw			
: SSFS (Ø 4.8 / Ø 6.0)			

Octa Combination Cylinder

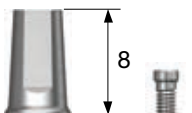
- Combination-retained prosthesis
- Compatible both with Octa/non-octa specs
- Use a 1.2 hex driver
- Recommended tightening torque: 20Ncm
- Packing unit : cylinder + Ti cylinder screw

Cylinder + Ti screw order code
: product code + TH (ex : SSOCC480TH)

- R

Regular
- W

Wide

D	
	
Ø 4.8	SSOCC480
Ø 6.0	SSOCC600
Ti screw	
: SSFS (Ø 4.8 / Ø 6.0)	

Octa Temporary Cylinder

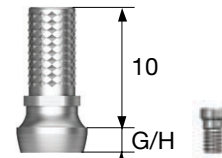
- Provisional prosthesis (Ti Gr-3)
- Fastened using a 1.2 hex driver
- Recommended tightening torque: 20Ncm
- Packing unit : cylinder + Ti cylinder screw

Cylinder + Ti screw order code
: product code + TH (ex : SSTCO480TH)

- R

Regular
- W

Wide

D	G/H	0	2
			
Ø 4.8		SSTCO480	SSTCO482
Ø 6.0		SSTCO600	SSTCO602
Ti screw			
: SSFS (Ø 4.8 / Ø 6.0)			

Octa Plastic Cylinder

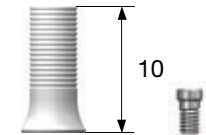
- Screw-retained prosthesis
- Customized prosthesis cast with non-precious alloys
- Use a 1.2 hex driver
- Recommended tightening torque: 20Ncm
- Packing unit : cylinder + Ti cylinder screw

Cylinder + Ti screw order code
: product code + TH (ex : SSPSO480TH)

- R

Regular
- W

Wide

D	Type	Octa	Non-Octa
			
Ø 4.8		SSPSO480	SSPSN480
Ø 6.0		SSPSO600	SSPSN600
Ti screw			
: SSFS (Ø 4.8 / Ø 6.0)			

Octa Abutment Components

Octa Pick-up Impression Coping

- A pick up impression coping for octa abutment
- Use a 1.2 hex driver (fastened manually)
- Packing unit : impression coping body + guide pin(*)

R Regular (Silver)

W Wide (Blue)

D \ L	Octa		Non-Octa		Guide Pin	
					10	15
						
	SSICO480	SSICN480N			SSGS100	SSGS150*
	SSICO600	SSICN600N				
	Ø 4.8					
	Ø 6.0					

OSSTEM[®]
IMPLANT

Octa Transfer Impression Coping

- A pick-up impression coping
- Use a 1.2 hex driver (fastened manually)
- Packing unit : Impression coping body + guide pin

R Regular (Silver)

W Wide (Blue)

D	
	
	SSOTI480
	SSOTI600
	Ø 4.8
	Ø 6.0

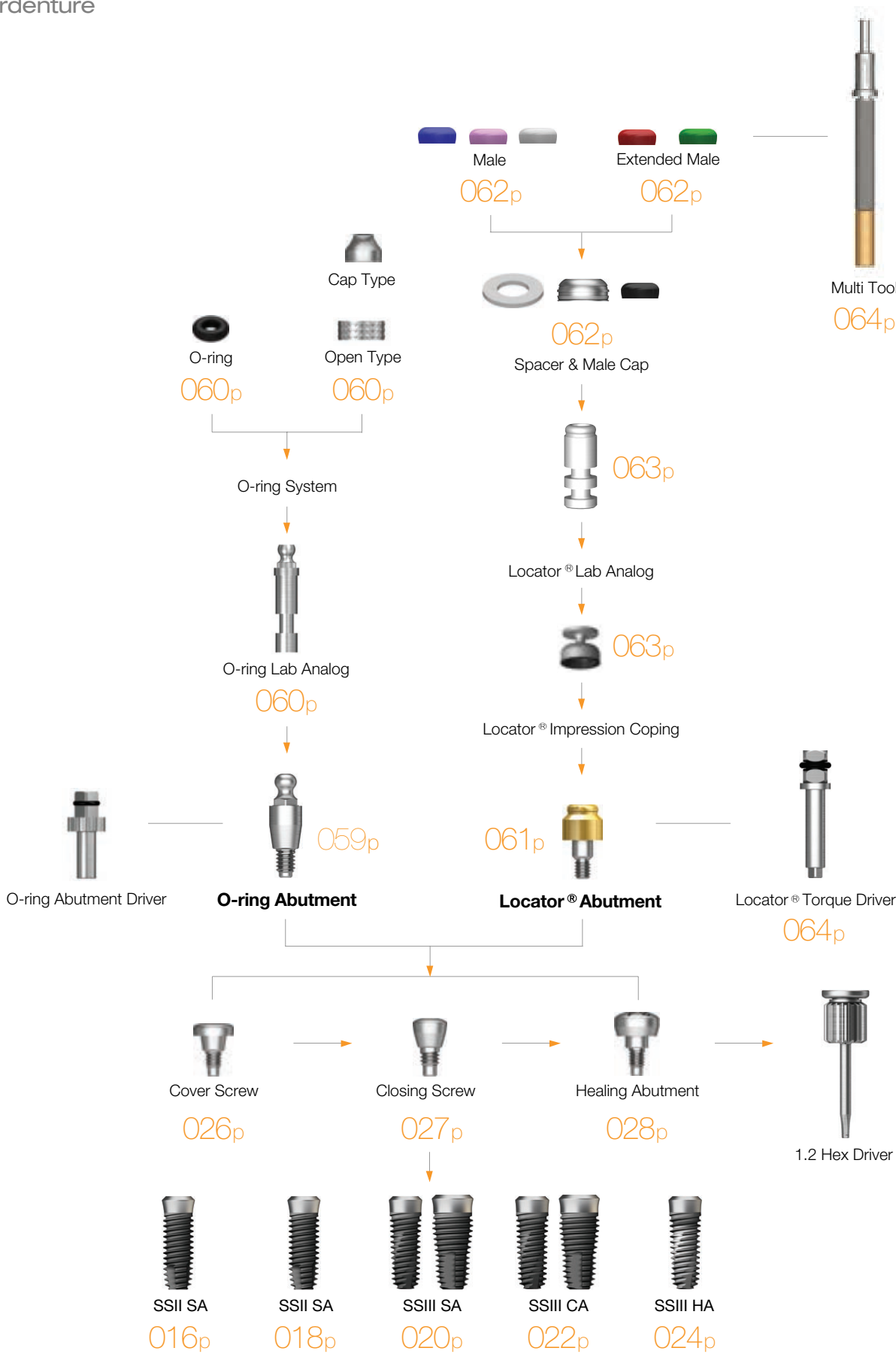
Octa Lab Analog

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

R Regular (Silver)

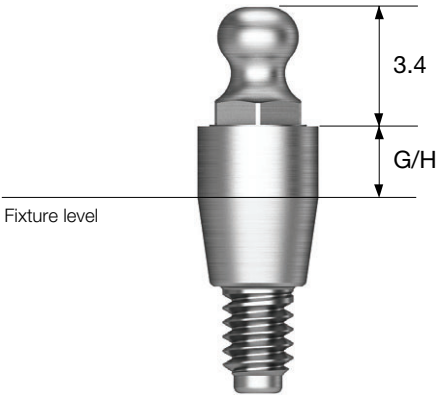
W Wide (Blue)

D	
	
	SSLA480
	SSLA600
	Ø 4.8
	Ø 6.0



O-ring Abutment

- Retains overdenture with o-ring system
- Angle compensation of up to 20°
- Torque using an outer driver (code: AORD)
- Recommended tightening torque: 30Ncm



D Ø4.8

R

G/H	0	2	4
	SSRA000	SSRA200	SSRA400

059

SS SYSTEM

O-ring Abutment Components

O-ring Retainer Cap Set

- O-ring housing
- Place an appropriate o-ring in the metal housing before connecting to the abutment
- 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 x 5ea



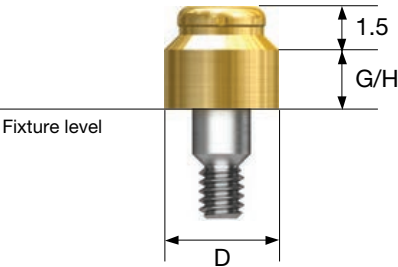
O-ring Lab Analog

- A lab analog



Locator® Abutment

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



D Ø4.8

R

G/H

0.7

2.0

3.0

4.0



HSLCA4810R



HSLCA4820R



HSLCA4830R



HSLCA4840R

061

SS SYSTEM

060

SS SYSTEM

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 : 2set



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



Locator® Extended Replacement Male

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



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



Locator® Black Processing Male

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



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



Locator® Impression Coping

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



Locator® Lab Analog

- A lab analog
- Packing unit : 4ea



Locator® Abutment Components

Locator® Core Tool

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



LCCT

Locator® Torque Driver

- A torque driver for locator abutment

Type	Short	Long
------	-------	------



TWLD**SK**



TWLD**LK**



Osstem Implant Key References

Clinic

No.	Title	Reference / Author
1	Retrospective clinical study of new tapered design implants in maxillary posterior areas	Oral Biology Research. 2013; 37(2):105-111 / Young-Kyun Kim et al.
2	A randomized controlled clinical trial of two types of tapered implants on immediate loading in the posterior maxilla and mandible	Int J Oral Maxillofac Implants. 2013 Nov-Dec;28(6):1602-11 (IF 1.908) / Young-Kyun Kim et al.
3	Bony window repositioning without using a barrier membrane in the lateral approach for maxillary sinus bone grafts: clinical and radiologic results at 6 months.	Int J Oral Maxillofac Implants. 2012 27:211-217 / Chang-Joo Park et al.
4	A relaxed implant bed: implants placed after two weeks of osteotomy with immediate loading: a one year clinical trial.	J Oral Implantol. 2012 Apr;38(2):155-64 / Bansal J et al.
5	A multicenter prospective study in type IV bone of a single type of implant	Implant Dent. 2012 Aug;21(4):330-34 / Su-Gwan Kim et al.
6	Comparison of clinical outcomes of sinus bone graft with simultaneous implant placement: 4-month and 6-month final prosthetic loading	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011 Feb;111(2):164-9 / Young-Kyun Kim et al.
7	Prospective study of tapered resorbable blasting media surface implant stability in the maxillary posterior area	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2012 Feb 28. [Epub ahead of print] / Young-Kyun Kim et al.
8	A 1-year prospective clinical study of soft tissue conditions and marginal bone changes around dental implants after flapless implant surgery	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011 Jan;111(1):41-6 / Byung-Ho Choi et al.
9	Evaluation of peri-implant tissue in nonsubmerged dentalImplants: a multicenter retrospective study	Clin Implant Dent Relat Res. 2011 Dec;13(4):324-9 / Young-Kyun Kim et al.
10	A relaxed implant bed: implants placed after two weeks of osteotomy with immediate loading: a one year clinical trial	J Oral Implantol. 2012 Apr;38(2):155-64 / Bansal J et al.
11	A comparison of implant stability quotients measured using magnetic resonance frequency analysis from two directions: prospective clinical study during the initial healing period	Clin. Oral Impl. Res. 2010;21(6):591-7 / Jong-Ho Lee et al.
12	A short-term clinical study of marginal bone level change around microthreaded and platform-switched implants	J Periodontal Implant Sci. 2011;41:211-217 / Kyoo-Sung Cho et al.
13	A randomized clinical one-year trial comparing two types of nonsubmerged dental implant	Clin. Oral Impl. Res. 2010;21(2):228-36 / Jong-Ho Lee et al.
14	Short-term, multi-center prospective clinical study of short implants measuring less than 7mm	J Kor Dent Sci. 2010;3(1):11-6 / Young-Kyun Kim et al.
15	Evaluation of peri-implant tissue in nonsubmerged dentalImplants: a multicenter retrospective study	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2009;108(2):189-95 / Young-Kyun Kim et al.

16	Evaluation of sinus bone resorption and marginal bone loss after sinus bone grafting and implant placement	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2009;107:e21-8 / Young-Kyun Kim et al.
17	Evaluation of peri-implant tissue response according to the presence of keratinized mucosa	Oral Surg Oral Med Oral Pathol OralRadiol Endod. 2009;107:e24-8 / Young-Kyun Kim et al.
18	Study on radiographic evaluation of marginal bone loss around osseonintegrated implant after functional loading	J Kor Oral Maxillofac Surg. 2009;35:240-7 / Young - Deok, Chee
19	Four-year survival rate of RBM surface internal connection non-submerged implants and the change of the peri-implant crestal bone	J Korean Assoc Maxillofac Plast Reconstr Surg. 2009;31(3):237-42 / Sok-Min Ko et al.

Biology

No.	Title	Reference / Author
1	Experiment study of bone response to hydroxyapatite coating implants : bone-implant contact and removal torque test	Oral Surg Oral Med Oral Pathol Oral Radiol. 2012 Jun 29. [Epub ahead of print] / Young-Kyun Kim et al.
2	Experimental study about the bony healing of hydroxyapatite coating implants	J Kor Oral Maxillofac Surg. 2011;27(4):295-300 / Young-Kyun Kim et al.
3	The use of autologous venous blood for maxillary sinus floor augmentation in conjunction with sinus membrane elevation: an experimental study	Clin. Oral Impl. Res. 2010;21:346-9 / Byung-Ho Choi et al.
4	Effects of soft tissue punch size on the healing of peri-Implant tissue in flapless implant surgery	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2010;109:525-30 / Byung-Ho Choi et al.
5	Morphogenesis of the peri-implant mucosa: a comparison between flap and flapless procedures in the canine mandible	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2009;107:66-70 / Byung-Ho Choi et al.
6	A comparative study of two noninvasive techniques to evaluate implant stability: periotest and osstell mentor	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2009;107:513-8 / Su-Gwan Kim et al.
7	Influence of abutment connections and plaque control on the initial healing of prematurely exposed implants: an experimental study in dogs	J Periodontol. 2008;79(6):1070-4 / Byung-Ho Choi et al.
8	Er:YAG laser irradiated implant surface observation with scanning electron microscopy	J Korean Assoc Maxillofac Plast Reconstr Surg. 2008;30(6):540-5 / Seung-Ki Min et al.
9	The effect of surface treatment of the cervical area of implant on bone regeneration in mini-pig	J Kor Oral Maxillofac Surg. 2008;34:285-92 / Hong-Ju Park et al.

10	Histologic and histomorphometric evaluation of early and immediately loaded implants in the dog mandible	J Biomed Mater Res A. 2008;86:1122-7 / Su-Gwan Kim et al.
11	Effects of different depths of gap on healing of surgically created coronal defects around implants in dogs: a pilot study	J Periodontol. 2008;79(2):355-61 / June-Sung Shim et al.
12	Comparative study of removal effect on artificial plaque from RBM treated implant	J Korean Assoc Maxillofac Plast Reconstr Surg. 2007;29(4):309-20 / Hee-Jyun Oh et al.

Biomechanics

No.	Title	Reference / Author
1	Evaluation of the correlation between insertion torque and primary stabilityof dental implants using a block bone test	J Periodontal Implant Sci. 2013;43:41-46 / Ki-Tae Koo et al.
2	Self-cutting blades and their influence on primary stability of tapered dental implants in a simulated low-density bone model: a laboratory study	Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011;112:573-580 / Young-Jun Lim et al.
3	Variation in the total lengths of abutment/implant assemblies generated with a function of applied tightening torque in external and internal implant-abutment connection	Clin. Oral Impl. Res. 2011;22:834-9 / Ki-Seong Kim et al.
4	Effect of impression coping and implant angulation on the accuracy of implant impressions: an in vitro study	J Adv Prosthodont. 2010;2(4):128-33 / Seung-Geun Ahn et al.
5	Influence of implant diameter and length changes on initial stability	J Kor Acad Prosthodont. 2009;47:335-41 / Chang-Mo Jeong et al.
6	Mechanical strength of zirconia abutment in implant restoration	J KASFO. 2009;25(4):349-60 / Young-Chan Jeon et al.
7	Heat transfer to the implant-bone interface during preparation of zirconia/alumina complex abutment	Int J Oral Maxillofac Implants. 2009;24(4):679-83 / Yong-Geun Choi et al.
8	Fatigue fracture of different dental Implant system under cyclic loading	J Kor Acad Prosthodont. 2009;47(4):424-34 / In-Ho Cho et al.
9	Effect of tightening torque on abutment-fixture joint stability using 3-dimensional finite element analysis	J Kor Acad Prosthodont. 2009;47(2):125-35 / Chang-Mo Jeong et al.
10	The effect of various thread designs on the initial stability of taper implants	J Adv. Prosthodont. 2009;1:19-25 / Young-Jun Lim et al.
11	Influence of tungsten carbide/carbon coating of implant-abutment screw on screw loosening	J Kor Acad Prosthodont. 2008;46(2):137-47 / Chang-Mo Jeong et al.

User Manual 2013.02 ver.4.0 “Disposable, re-use prohibited, medical appliance”

Osstem Implant product information

Osstem Implant's dental fixtures and products are manufactured using medical grade Titanium. Osstem Implant's abutments, denture material and surgical tools are only compatible with Osstem fixtures. For more details about any individual product, please refer to the user manual or catalog, or visit our company website (www.osstem.com). Please check all product labels for product codes, specifications, date of manufacture and expiration date.

Sterility

Fixtures, cover screws and healing abutments are cleansed and gamma-sterilized. These products are disposable sterile medical appliances, and must be used in a sterile field. If the package is damaged or has expired, it must not be used. If the product package has been opened but not used, there is a risk of contamination and it is not recommended that the product resterilized and therefore should be discarded.

Storage conditions

Store all products in a dry place at room temperature (30oC). Avoid direct sunlight.

General precautions

Dental implant surgery requires proper and formal training and education.

Cautions before dental surgery

Before dental implant surgery, a thorough patient health history review, and oral radiographic examinations must be completed to determine bone quality and proper treatment planning.

Cautions during dental implant surgery

Osstem Implant Systems are for single or two stage dental implant procedures. In order to minimize damage to the patient's tissue, special attention to temperature, surgical lesions and eliminating all sources of contamination and infection are needed. Any deviation from the standard surgical protocol increases the risk of failure. When inserting the dental implant, sufficient cooling must be introduced (water or saline) and excessive torque (greater than 55Ncm) can result in dental implant fracture or possibly bone necrosis. Placing dental implants greater than 300 has a very high risk of implant fracture. Direct pressure to the fixture should be avoided right after surgery. Immediate or delayed loading of the fixture must be determined after proper examination of the patient's bone condition and initial stability after placement.

"Mini" implants or implants with a diameter less than 4.0mm are not recommended for the posterior region.

Ultra-wide dental implants are recommended for the posterior region but should not be used with angled abutments. If considering an Ultra-wide dental implant, proper radiographic evaluation must be made to determine the bone mass and potential anatomical restrictions. Short dental implants (diameter greater than 5mm and shorter than 7mm) are only used for the posterior region. The clinician must

thoroughly evaluate the patient's condition and recognized the following issues: 1) bone loss due to peri-implantitis, 2) changes to the dental implant condition, 3) proper osseointegration determined by a x-ray examination. If there is movement or if there is bone loss more than 50%, removing the dental implant should be a course of action. Wide diameter implants should be performed as a two stage surgery. Sufficient healing time must be given before splinting with other implants or when loading. Immediate loading is not recommended.

Take care when placing dental implants with HA coating. The coating is prone to cracking or fracturing under high torque, therefore hard bone should be avoided and be inserted under 35Ncm of force.

CA and SOSI treated dental implants are encased in a solution to prevent the chemically treated surface from reacting with air. After removing the CA or SOSI dental implant, place the implant within 15 minutes to avoid degradation of the surface.

Warning

Improper patient selection and treatment planning may result in dental implant failure or loss of bone. Osstem Implants must not be used for purpose other than prescribed and must not be altered in any shape or form. Implant movement, bone loss, and chronic infections can result in implant failure.

Indications

Osstem Implant Systems are designed to replace a patient's tooth or teeth. They can be placed in both the maxillary and submaxillary alveolar bones and after full osseointegration can be restored prosthetically. Osstem Implant Systems offer both temporary and final prosthesis and can be retained by cement, screw, overdenture or fixed bridge.

Side effects

There are possible side effects after implant surgery (lost of implant stability, damage to dentures). These issues can be caused by the lack of bone or poor bone quality, an infection, patient's poor oral hygiene, non compliance with post op procedures, movement of the implant, degradation of surrounding tissue, or improper placement of the dental implant.

Contraindications

- Patients with the following contraindications are not eligible for dental implants:
- Patients with blood clotting issues or issues with wound healing.
 - Diabetic patients
 - Patients that smoke or drink excessively
 - Patient's with compromised immune systems due disease or chemo and radiation therapy.
 - Patients with an oral infection or inflammation (improper oral hygiene or teeth grinding)
 - Patients with an incurable malocclusion/arthropathia and insufficient arch space.

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



DEUTSCHE OSSTEM GmbH.
Mergenthalerallee 25
65760 Eschborn, Germany
+49-(0)6196-777-550

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



0434



Sterilized using irradiation



Use by



Manufacture



Do not reuse



Date of manufacture



Keep away from sunlight



Catalogue number



Non-Sterile



Keep dry



Batch code



Do not resterilize



Caution, Consult accompanying documents

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