Osstem Implant 2016-17 Comprehensive Catalog

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SS 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.

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)

Choilupion



1997

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

2000

- 06 Released 'Hanaro' (dentistry management software)
- 10 Acquired Sumin Comprehensive Dental Materials

2001

01 Obtained CE-0434 certification **03** Established AIC

Training Center

2002

01 Established Osstem Implant R&D Center 08 Obtained FDA certification. launched USII line 10 Launched SSII line

2006

- **01** Changed the
- company name to Osstem Implant Co., Ltd **04** Obtained GOST-R certification (Russia)

12 Established 12 overseas branches (first round)

2007

- **02** Listed on KOSDAQ and began trading publicly **06** Selected as No. 1 products for the next generation and obtained TGA certification (Australia)
- **01** Established Osstem Bone Science Research Center **12** Selected as a managing organization for the National Strategic Technology Development Project
- 2009

2008

10 Obtained approval for medical device manufacturing and sale from the Ministry of Health, Labor and Welfare, Japan

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

- **06** Osstem Implant R&D Center was selected as ATC (Advanced Technology Center) 07 Established Osstem 07 Selected as 'World Champ' business
 - 06 Launched TSIII CA line Dental Equipment **Research** Institute

10 Obtained 'Health Canada'

12 Launched 'K2 Unit Chair,

'World Class Product'

which was selected as a

2011

certification

2012



EMEA

Germany United Kingdom Latvia France Italy Sweden Denmark Finland Poland Hungary Spain Bulgaria Romania Serbia Slovakia Croatia Estonia

Greece Albania Malta **Ukrai**ne **Tunis**ia Sudar Egypt Kuwai Syria UAE

ASIA / OCEANIA

Singapore Malaysia

N/S.AMERICA

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'

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



Each implant system has its own unique color code.

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

OSSTEM[®] Implant Surface feature

The key factor in providing implant treatment safely and efficiently is surface technology. proud of its cutting-edge

surface technology.

Acid Treated Optimized Surface

- · Surface roughness value of
- about Ra 2.5 to 3.0µm
- Note: The upper 0.5mm section of the
- implant has a surface roughness of about Ra 0.5 to 0.6 µm
- · Consistent surface micro pits between 1 to 3µm
- 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

- \cdot 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**

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

In-vitro & In-vivo Bone Response

- \cdot 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























Locator ® Block Out Spacers



054

Cylinder

Combination

Octa













Locator ® Black Processing Male

064 Locator ® Torque Driver





FIXTURE

016	SSII SA Fixture
018	SSII CA Fixture
020	SSIII SA Fixture
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026	Cover Screw
027	Closing Screw
028	Healing Abutment

COMPONENTS

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035	Excellent Solid Abutment
040	PROSTHETIC FLOW DIAGRAM 2
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042	ComOcta Plus Abutment
043	ComOcta Milling Abutment
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045	ComOcta NP-Cast Abutment
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053	Octa Abutment
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059	O-ring Abutment
061	Locator [®] Abutment

SSII SA Fixture



D



DØ4.0	G/H L	7	8.5	10	11.5	13
P Ø4.8						
	1.8	SS2R4007S18	SS2R4008S18	SS2R4010S18	SS2R4011S18	SS2R4013S18
	2.8		SS2R 4008S28	SS2R4010S28	SS2R 4011S28	SS2R 4013S28
D Ø4.5	G/H L	7	8.5	10	11.5	13
P Ø4.8 R						
	1.8	SS2R4507S18	SS2R4508S18	SS2R4510S18	SS2R4511S18	SS2R 4513S18
	2.8		SS2R 4508S28	SS2R 4510S28	SS2R 4511S28	SS2R 4513S28
D Ø4.5	G/H L	7	8.5	10	11.5	13
P Ø6.0						
	2.0	SS2W4507S20	SS2W4508S20	SS2W4510S20	SS2W4511S20	SS2W4513S20

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.

016 SS SYSTEM





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

018

SS SYSTEM

- · 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: \leq 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)



10

11.5

13



DØ4.0 G/H L PØ4.8 R SS2R4007C18 SS2R4008C18 SS2R4010C18 SS2R4011C18 SS2R4013C18 1.8 SS2R4008C28 SS2R4010C28 SS2R4011C28 SS2R4013C28 2.8 7 8.5 10 11.5 13 DØ4.5 G/H L -5 PØ4.8 R SS2R4507C18 SS2R4508C18 SS2R4510C18 SS2R4511C18 SS2R4513C18 1.8 SS2R4508C28 SS2R4510C28 SS2R4511C28 SS2R4513C28 2.8 8.5 10 11.5 13 G/H L 7 D Ø4.5 PØ6.0 W 2.0 SS2W4507C20 SS2W4508C20 SS2W4510C20 SS2W4511C20 SS2W4513C20

8.5

7

Ultra-wide



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.



SSIII SA Fixture

- Non-submerged type implant with an internal octa and 8° tapered connection
- $\boldsymbol{\cdot}$ Optimized screw thread design with the ideal SA surface
- Tapered body design with high initial stability
- $\ensuremath{\cdot}$ 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: ${\leq}40~\text{Ncm}$
- % 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 Ø3.5	G/H L		8.5	10	11.5	13
P Ø4.8 R						
	1.8		SS3R 3508S18	SS3R 3510S18	SS3R 3511S18	SS3R 3513S18
	2.8		SS3R 3508S28	SS3R 3510S28	SS3R 3511S28	SS3R 3513S28
D Ø4.0	G/H L	7	8.5	10	11.5	13
P Ø4.8 R						
	1.8	SS3R4007S18	SS3R4008S18	SS3R4010S18	SS3R4011S18	SS3R4013S18
	2.8		SS3R 4008S28	SS3R4010S28	SS3R4011S28	SS3R4013S28
D Ø4.5	G/H L	7	8.5	10	11.5	13
P Ø4.8 R						
	1.8	SS3R4507S18	SS3R 4508S18	SS3R4510S18	SS3R4511S18	SS3R4513S18
	2.8		SS3R 4508S28	SS3R 4510S28	SS3R4511S28	SS3R 4513S28





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.





\$\$3\\\$5006\$20 \$\$3\\\$5007\$20 \$\$3\\\$5008\$20 \$\$3\\\$5010\$20 \$\$3\\\$5011\$20 \$\$3\\\$5013\$20



021

SS SYSTEN

SS3WB6006S20 SS3WB6007S20 SS3WB6008S20 SS3WB6010S20 SS3WB6011S20 SS3WB6013S20



SS3WB7006S20 SS3WB7007S20 SS3WB7008S20 SS3WB7010S20 SS3WB7011S20 SS3WB7013S20

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

D Ø 3.5

PØ4.8

022

SS SYSTEM

- 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: \leq 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)

G/H L



10

11.5

13



7

D Ø4.5

PØ6.0

W

G/H L

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.

R						
	1.8		SS3R3508C18	SS3R3510C18	SS3R3511C18	SS3R 3513C18
	2.8		SS3R 3508C28	SS3R 3510C28	SS3R 3511C28	SS3R 3513C28
DØ4.0	G/H L	7	8.5	10	11.5	13
P Ø 4.8 R						
	1.8	SS3R4007C18	SS3R4008C18	SS3R4010C18	SS3R4011C18	SS3R4013C18
	2.8		SS3R4008C28	SS3R4010C28	SS3R4011C28	SS3R4013C28
DØ4.5	G/H L	7	8.5	10	11.5	13
P Ø 4.8 R						
	1.8	SS3R4507C18	SS3R4508C18	SS3R4510C18	SS3R4511C18	SS3R4513C18
	2.8		SS3R 4508C28	SS3R4510C28	SS3R4511C28	SS3R4513C28

8.5



SS SYSTEN

SSIII HA Fixture

Premium high-crystalline HA-coated surface

Tapered body design with high initial stability

• Recommended insertion torque: \leq 40 Ncm

: A + fixture product code (ex : ASS3R4011H18)

posterior area

024

SS SYSTEM

of fracturing or flaking off

Corkscrew threading with excellent self-threading effect

• Excellent initial stability necessary for immediate loading, even in soft bone

* Fixtures with a diameter of 4.5mm or more are recommended for the





DØ4.0	G/H L	7	8.5	10	11.5	13
P Ø 4.8						
	1.8	SS3R4007H18	SS3R4008H18	SS3R4010H18	SS3R4011H18	SS3R4013H18
	2.8		SS3R 4008H28	SS3R4010H28	SS3R4011H28	SS3R4013H28
D Ø4.5	G/H L	7	8.5	10	11.5	13
P Ø4.8						
	1.8	SS3R4507H18	SS3R4508H18	SS3R4510H18	SS3R4511H18	SS3R4513H18
	2.8		SS3R 4508H28	SS3R4510H28	SS3R4511H28	SS3R 4513H28
D Ø4.5	G/H L	7	8.5	10	11.5	13
P Ø6.0						
	2.0	SS3W4507H20	SS3W4508H20	SS3W4510H20	SS3W4511H20	SS3W4513H20

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.



SS3W5006H20 SS3W5007H20 SS3W5008H20 SS3W5010H20 SS3W5011H20 SS2W5013H20



Mount & Screw





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



P

R

W

Cover Screw Ρ\ Select appropriate mount according to the 1.48 ^L 1 fixture platform R • Use a 1.2 hex driver (fasten manually) • P = Platform SSCS480 R Regular W Wide 1.48 W SSCS600







Healing Abutment

Select appropriate mount according to the fixture platformUse a 1.2 hex driver (fasten manually)













Solid / Excellent Solid

Abutment Level Impression

Solid Abutment



Solid Abutment Components

Solid Protect Cap	D\H	4.0	5.5	7.0
 Protects the solid abutment and minimizes patient irritation Can be used as the base for a provisional crown 				
Regular	Ø 4. 8	SSC 484	SSC 485	SSC 487
Wide	Ø 6.0	SSC 604	SSC 605	SSC 607

Solid Impression Coping	D <u>H</u>
Color coded by abutment height	
R Regular	
Wide	ø 4. 8
	Ø6.0

	Solid Retraction Cap	D H	4.0	5.5	7.0	
032	Used for accurate margin reproduction when taking a direct impression					• Connect to the appropriate color coded
(0)	Can be used as the base for a provisional crown					rigid impression coping
S S	Regular	Ø 4. 8	SSSRC484	SSSRC 485	SSSRC 487	B Begular
YSTEM	WWide	Ø6.0	SSSRC604	SSSRC605	SSSRC 607	Wide

Solid Burn-out Cylinder	D <u>H</u>
 Used after casting, clean the margin for proper fitting 	
R Regular	~ 1 0
Wide	Ø4.8
	Ø6.0



SSIC484 SSIC604





SSIC485 SSIC605

7.0



4.0

D<u>H</u>

Ø4.8

Ø6.0



SSSA**484** SSSA604





SSSA485 SSSA605



SSSA487 SSSA607





Solid Abutment Components

Excellent Solid Abutment



Solid Shoulder Analog Pin

034

SS SYSTEN

- 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



DØ6.0 W





Excellent Solid Abutment Components

Excellent Solid Protect Cap	D	4.0	5.5	7.0
 Protects the solid abutment and minimizes patient irritation Can be used as the base for a provisional crown 				
Regular	Ø 4. 8	SSEC484	SSEC 485	SSEC 487
Wide	Ø6.0	SSEC604	SSEC 605	SSEC607

Excellent Solid Impression Coping	D <u>H</u>
Color coded by abutment height	
R Regular	
Wide	Ø4.8
	Ø6.0

	Excellent Solid Retraction Cap	D	4.0	5.5	7.0	Excellent Solid Lab Analog	D <u>H</u>
6	 Used for accurate margin reproduction when taking a direct impression Can be used as the base for a provisional crown 					Connect to the appropriate color coded rigid impression coping	
	R Regular	Ø 4. 8	SSERC 484	SSERC 485	SSERC487	Wide	
	W Wide	Ø6.0	SSERC604	SSERC605	SSERC607	W Wide	Ø 4. 8
							Ø6.0

Excellent Solid Burn-out Cylinder	D <u>H</u>
Used after casting, clean the margin for proper fitting	
R Regular	Ø4.8
Wide	Ø6.0



SSEIC**484** SSEIC**604**





SSEIC485 SSEIC605

7.0



SSEIC**487** SSEIC**607**

4.0



SSEA**484** SSEA**604**





SSEA**485** SSEA**605**



SSEA487 SSEA607





Excellent Solid Abutment Components











PROSTHETIC FLOW DIAGRAM 2

ComOcta / SmartFit

Fixture Level Impression

ComOcta Abutment



ComOcta Plus Abutment

ComOcta Milling Abutment

 Cement/combination-retained prosthesis Cement/combination-retained prosthesis • Use when the gingiva is thick or the fixture is inserted deeply • Used when the abutment's margin shape needs corrections - Abutment fastens to the platform at a 45 $^\circ$ angle • Abutment fastens to the platform at a 45° angle 5.5 Fixture level impression Fixture level impression Use a 1.2 hex driver Use a 1.2 hex driver Recommended tightening torque: 30Ncm Recommended tightening torque: 30Ncm G/H • Packing unit : abutment + Ti screw • Packing unit : abutment + Ti screw Ti screw Fixture level Abutment + Ti screw order code Abutment + Ti screw order code : product code + TH (ex : SSCAP4826CTH) : product code + TH (ex : SSCMA4830TH)



R	
Ti screw ASR200	

Octa	SSCAP4816C
Non-Octa	SSCAP4816CN

G/H

1.0



2.0



3.0





SSCMA4830







3.0



SSCMA6030

043

ComOcta Gold Abutment

ComOcta NP-Cast Abutment

 Cement/combination/screw-retained prosthesis Cement/combination/screw-retained prosthesis Customized prosthesis cast with non-precious alloys Customized prosthesis cast with gold alloy • Abutment fastens to the platform at a 45° angle • Abutment fastens to the platform at a 45° angle • Abutment melting point: 1400~1450°C • Abutment melting point: 1400~1450°C Fixture level impression Fixture level impression 11.5 Use a 1.2 hex driver Use a 1.2 hex driver Recommended tightening torque: 30Ncm Recommended tightening torque: 30Ncm Packing unit : abutment + Ti screw • Packing unit : abutment + Ti screw Abutment + Ti screw order code Ti screw Abutment + Ti screw order code : product code + TH (ex : CON480STH) Fixture level : product code + TH (ex : COG480STH)

4	D Ø4.8 Type	Octa	Non-Octa	D Ø6.0 Type	Octa	Non-Octa
	R Ti screw : ASR200			Ti screw : ASR200		
		COG 480S	COG 480B		COG 600S	COG 600B



SS SYSTEM







Octa





Non-Octa

2
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l



C C	2
U	ò
0	ò
Ξ	1

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



Scan Boby

- 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)



• 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)











Green color screw : USSBRS





Green color screw · USSBRS



ComOcta Angled Abutment

15°

SSA4815

ComOcta Abutment Components





- Fastened using a 1.2 hex driver
- Recommended tightening torque: 30Ncm

Cement/combination-retained prosthesis

Angle compensation between 15° and 20°

• Packing unit : abutment + Ti screw(only angled)

Angle

Туре

Abutment + Ti screw order code : product code + TH (ex : SSA4815TH)



Fixture Pick-up Impression Coping

- 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(*)

Regular (Silver) Wide (Blue)



DØ6.0	Angle	15°	20 °	15°	20 °
	Туре		Octa		Non-Octa
Ti screw : ASS200		SSA6015	SSA6020	SSA6015N	SSA6020N

20°

SSA**4820**

Octa

SSA4815N

15°		20 °	
	Non-Octa		

SSA4820N

DØ4.8

R

Ti screw : ASS200

048







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











PROSTHETIC FLOW DIAGRAM 3

Octa

Abutment Level Impression



<mark>SS</mark> SYSTEM





Octa Abutment





Octa Abutment Components





Octa Temporary Cylinder D • Provisional prosthesis (Ti Gr-3) • Fastened using a 1.2 hex driver • Recommended tightening torque: 20Ncm • Packing unit : cylinder + Ti cylinder screw • Packing unit : cylinder + Ti cylinder screw Ø 4.8 • product code + TH (ex : SSTCO480TH) Ø 6.0 • Regular Ti screw • Wide Vide

Octa Plastic Cylinder	D
 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 	Ø4
Cylinder + Ti screw order code : product code + TH (ex : SSPSO480TH) Regular	Ø C Ti so : SSF

W Wide

R Regular W Wide

054

SS SYSTEM

R Regular

Octa Gold Cylinder

Screw-retained prosthesis

Customized prosthesis cast with gold alloy

Recommended tightening torque: 20Ncm

Packing unit : cylinder + Ti cylinder screw

: product code + TH (ex : SSGCO480TH)

• Cylinder melting point: 1400~1450°C

• Fastened using a 1.2 hex driver

Cylinder + Ti screw order code

W Wide

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)







: SSFS (Ø 4.8/Ø 6.0)



Octa Abutment Components



OSSTE IMPLANT





PROSTHETIC FLOW DIAGRAM 4

O-ring / Locator®

O-ring Abutment



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O-ring Abutment Components

Locator[®] Abutment



O-ring Lab Analog

• A lab analog

SS SYSTEM



4.0







Locator[®] Abutment Components

Locator [®] Male Processing Kit		Locator® Black Processing Male
 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 	LMPS	 A nylon male used in prosthesis fabrication process Packing unit : 4ea
		Locator [®] Block Out Spacers
Angle compensation up to 20° Packing unit : 4ea	LRM06S	 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
 Retention force: approx. 12N Angle compensation up to 20° Packing unit : 4ea 	LRM12S	Locator [®] Impression Coping
 Retention force: approx. 22N Angle compensation up to 20° Packing unit : 4ea 	LRM22S	A pick up impression copingClosed trayPacking unit : 4ea

Locator[®] Extended Replacement Male

 Retention force: approx. 6N Angle compensation up to 20° to 40° Packing unit : 4ea 	LEMO6S
 Retention force: approx. 12N Angle compensation up to 20° to 40° Packing unit : 4ea 	LEM12S

Locator[®] Lab Analog

A lab analog Packing unit : 4ea





LAL50S

Locator[®] Abutment Components



Locator [®] Torque Driver	Туре	Short	Long
A torque driver for locator abutment		Ū	Ī
		TWLD SK	TWLD LK





Osstem Implant Key References

Clinic

No.	Title	Reference / Author
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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.
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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 dentallmplants: a multicenter retrospective study	Clin Implant Dent Relat Res. 2011 Dec;13(4):324-9 / Young-Kyun Kim et al.
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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.
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19	Four-year survival rate of RBM surface internal con submerged implants and the change of the peri-im

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Biology		
No.	Title	Reference / Author
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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.
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ig to the	Oral Surg Oral Med Oral Pathol OralRadiol Endod. 2009;107:e24-8 / Young-Kyun Kim et al.
loss around	J Kor Oral Maxillofac Surg. 2009;35:240-7 / Young - Deok, Chee
nection non- plant crestal bone	J Korean Assoc Maxillofac Plast Reconstr Surg. 2009;31(3):237-42 / Sok-Min Ko et al.

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

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Biomechanics

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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 threefore 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

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



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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 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. Osstern 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.



CE

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Catalogue number











Do not resterilize





Keep away from sunlight





Caution, Consult accompanying documents

