OSSTEM IMPLANT SYSTEM

SS System
Fixture and Restorative Components
OSSTEM HISTORY

2009
Oct
Approved by the Ministry of Health, Labour and Welfare in Japan

Aug
2009 OSSTEM MEETING Hong Kong held

2008
Oct
‘2008 OSSTEM MEETING Singapore’ held

Aug
2008 OSSTEM MEETING Hong Kong held

Jul
‘2008 OSSTEM MEETING Taiwan’ held in Taipei

Jun
Established and sales of SSI implant

Apr
‘2008 AIC World Meeting’ held in Seoul

Mar
Established AIC training center

2007
Nov
2007 OSSTEM MEETING Malaysia held in Kuala Lumpur

2007 OSSTEM MEETING USA held in Los Angeles

Oct
2007 OSSTEM MEETING India held in Mumbai

2007 OSSTEM MEETING Russia held in Moscow

Established the incorporate subsidiary in Australia(Sydney)

Sep
2007 OSSTEM MEETING Hong Kong held

2007 OSSTEM MEETING Singapore held

Jul
‘2007 OSSTEM MEETING Taiwan’ held in Taipei

Jun
Approved by the TGA in Australia

May
HTMA approved OSSTEM house bank foundation

Apr
Published “2006 OSSTEM IMPLANT SYSTEM” in English Version

‘OSSTEM MEETING 2007’ held in Seoul (12,000 attended)

Feb
Listed on KOSDAQ (KRX - Korea Exchange)

1999
Dec
Established the subsidiary offices in Thailand(Bangkok), and Malaysia(Kuala Lumpur)

Nov
Approved by the SFDA in China

Sep
Established the US Corporate Headquarter and started construction of manufacturing facility in the US

Aug
Established the subsidiary offices in China(Beijing), Hong Kong, and Singapore

Jul
Established the subsidiary office in Japan(Tokyo)

Apr
Certified GOST-R in Russia

‘OSSTEM MEETING 2006’ held in Seoul (4,500 attended)

Published the “2006 OSSTEM IMPLANT SYSTEM (introduction and particulars of implant system)”

Jan
Established the subsidiary offices in India(Mumbai) and Russia(Moscow)

1995
Jul
Developed the implant and acquired an industrial license

1992
Dec
Launched the development of dental implant system

OSSTEM IMPLANT

- Market Share & Brand Recognition NO.1 In Korean Market
- World Class Product Quality (FDA, CE, ISO9001)
- Enhanced Research & Development Through Implant R&D Center
- Independent Models Development and Production(SSII, GSII)
- A Wide Range of Products with Excellent Compatibility
- Most Advanced Facilities with the Largest Production Capacity in Asia
- Export to the worldwide
- Future Expansion Plan To Over 100 Countries For The Next Five Years
- Active Systematic Implant Clinical Training Through AIC Center

OSSTEM IMPLANT R&D Center

OSSTEM R&D Center consists of 25 professionals who have doctral/master’s degree in each field.

OSSTEM keeps investing in research and development area with high tech equipment.

OSSTEM also cooperates with government agencies, universities, and hospitals in many projects and in-depth studies.

University/Other Research Institutes

Educational-industrial projects

Government Research cooperation with governmental projects

Customer Clinics

Fed Backups opinions

Associated Clinical Hospital

Joint clinical research works

OSSTEM IMPLANT R&D Center
CHARACTERISTIC of OSSTEM IMPLANT SYSTEM

SS System- Clinic

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Reference</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Prospective Clinical Trial of Survival Rate for Two Different Implant Surfaces Using the Osstem SS Non-submerged Implant System in Partially Edentulous Patients</td>
<td>J Kor Dent Sci. 2009;11(3):45-51</td>
<td>Su-Kwan Kim et al.</td>
</tr>
<tr>
<td>4</td>
<td>A Randomized Clinical One-year Trial Comparing Two Types of Non-submerged Dental Implant</td>
<td>Accepted for Publication in Clin Oral Implant Res</td>
<td>Jong-Ho Lee et al.</td>
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<td>6</td>
<td>A Comparison of Implant Stability Quantiﬁed Measured Using Magnetic Resonance Frequency Analysis from Two Directions Prospective Clinical Study during the Initial Healing Period</td>
<td>Accepted for Publication in Clin Oral Implant Res</td>
<td>Jong-Ho Lee et al.</td>
</tr>
<tr>
<td>8</td>
<td>Clinical Application of Osstem SS II Implant System</td>
<td>J Kor Dent Sci 2008;105:258-65</td>
<td>Hee-Kyun Oh et al.</td>
</tr>
<tr>
<td>17</td>
<td>A Retrospective Study on the Clinical Success Rate of Osstem SS II Implant System</td>
<td>Key Engineering Materials 2008;281-286:1321-4</td>
<td>Su-Kwan Kim et al.</td>
</tr>
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</table>

SS System- Bioelectrics

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
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<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Comparison of Corticocancellous Block and Particulate Bone Grafts in Maxillary Sinus Floor Augmentation for Bone Healing around Dental Implants</td>
<td>J Korean Assoc Maxillofac Plast Reconstr Surg 2008;107:422-4</td>
<td>Hee-Kyun Oh et al.</td>
</tr>
<tr>
<td>2</td>
<td>Multicenter Retrospective Clinical Trial of Survival Rate for Two Different Implant Surfaces Using the Osstem SS II Implant System</td>
<td>J Kor Dent Sci. 2009;3(1):35-41</td>
<td>Su-Kwan Kim et al.</td>
</tr>
<tr>
<td>3</td>
<td>Multicentre Prospective Clinical Study of Nonsubmerged Implant System: Early Stability Measured by Periotest</td>
<td>J Kor Dent Assoc 2004;42(12):873-81</td>
<td>Young-Rae Kim et al.</td>
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SS System- Biomechanics

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<tr>
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<td>A Randomized Clinical One-year Trial Comparing Two Types of Non-submerged Dental Implant</td>
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</tr>
</tbody>
</table>

CHARACTERISTIC of OSSTEM IMPLANT SYSTEM

Reliable implant that has acquired various international quality certifications (FDA, CE, ISO9001, etc.) Various product lines that can be optimized according to the oral cavity and surgical situation

SS System

- Non-submerged type implant based on a one-stage surgery procedure
- Stable connection structure of internal octa and morse taper method
- Can facilitate placement applicable to various bone quality and obtain superior bonding stability
- Product line: SSII, SSIII, SS Ultra-Wide®

RBM

Octa Type

SS II

- The initial stability for immediate & early loading
- The good feeling of fixture implantation
- The convenience of implant surgery

SS III

- Immediate placement at the extract socket
- Immediate replacement of the failed implant

SS Ultra-Wide®

- Composed of triangular threads with internal octagon connection straight body of gingival level, based on single stage surgery. Easy to secure early stabilization and control implanted bone depth.
- Especially good for loading immediately.
### SS Prosthesis Library

#### SS System

<table>
<thead>
<tr>
<th>Type</th>
<th>Abutment</th>
<th>Protect Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid - Excellent Solid</td>
<td>Solid</td>
<td>Excellent Solid</td>
</tr>
<tr>
<td>ComOcta - ComOcta Gold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Octa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-ring</td>
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<td>LOCATOR®</td>
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#### Impression

<table>
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<tr>
<td>Impression Cap</td>
<td>Shoulder Analog</td>
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<tr>
<td>(Octa) Non-Octa</td>
<td>Shoulder Analog Pin</td>
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#### Burn-out cylinder

<table>
<thead>
<tr>
<th>Gold Cylinder</th>
<th>Plastic Cylinder</th>
<th>Combination Cylinder</th>
<th>Impression Burn-out cylinder</th>
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</thead>
<tbody>
<tr>
<td>Octa</td>
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<td>(Octa) Non-Octa</td>
<td>(Octa) Non-Octa</td>
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#### Lab Analog

<table>
<thead>
<tr>
<th>Gold Cylinder</th>
<th>Plastic Cylinder</th>
<th>Combination Cylinder</th>
<th>Impression Coping</th>
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</thead>
<tbody>
<tr>
<td>Single Burn-out cylinder</td>
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<td></td>
<td>(Octa) Non-Octa</td>
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<tr>
<td>(Octa) Non-Octa</td>
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<td>(Octa) Non-Octa</td>
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#### O-rings System

<table>
<thead>
<tr>
<th>Octa</th>
<th>Non-Octa</th>
<th>Octa</th>
<th>Non-Octa</th>
<th>Octa</th>
<th>Non-Octa</th>
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#### Replacement Male

<table>
<thead>
<tr>
<th>Extented Replacement Male</th>
<th>Extented Replacement Male</th>
<th>Torque Driver</th>
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Hanaro KIT System Guide

KIT for each system

<table>
<thead>
<tr>
<th></th>
<th>Surgical</th>
<th>Prosthetic</th>
<th>Etc</th>
<th></th>
<th>Surgical</th>
<th>Prosthetic</th>
<th>Etc</th>
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<tr>
<td>Ultra</td>
<td>Hanaro KIT(HKA2), Simple KIT(OSPK)</td>
<td>Taper KIT[OTSK], Taper Mini KIT[OGS3MK]</td>
<td>Osteo KIT(AOST)</td>
<td>GS KIT[OSSK], GS Mini KIT[OIKGM], Hanaro KIT(HKA2)</td>
<td>Taper KIT[OTSK], Taper Mini KIT[OGS3MK]</td>
<td>Osteo KIT(AOST)</td>
<td>GS KIT[OSSK]</td>
</tr>
<tr>
<td>III</td>
<td>Hanaro KIT(HKA2), Simple KIT(OSPK)</td>
<td>GS KIT[OSSK2], GS Mini KIT[OIKGM]</td>
<td>Osteo KIT(AOST)</td>
<td>GS Prosthetic KIT [DPK]</td>
<td>GS KIT[OSSK2], GS Mini KIT[OIKGM]</td>
<td>Osteo KIT(AOST)</td>
<td>GS KIT[OSSK]</td>
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<tr>
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<td>Ultra KIT[OUK]</td>
<td>Osteo KIT(AOST)</td>
<td>GS KIT[OSSK2], GS Mini KIT[OIKGM], Hanaro KIT(HKA2)</td>
<td>Bone Spreader KIT [OBSOK]</td>
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Ultra KIT[OUK]
OSSTEM IMPLANT SYSTEM

SS System
Fixture and Restorative Components

Early & Esthetic
OSSTEM IMPLANT

SS System
Fixture and Restorative Components
Prosthetic Flow Diagrams for SS System

Cement Retained Restoration: Solid Abutment • Regular, Wide

Cement Retained Restoration: Excellent Solid Abutment • Regular, Wide

1.2 Hex Driver

Cover Screw

Closing Screw

Healing Abutment

SS II

SS III

SS Ultra-Wide*
Prosthetic Flow Diagrams for SS System

Cement Retained Restoration: ComOcta, ComOcta Plus, ComOcta Angled, ComOcta Gold Abutment
Screw Retained Restoration: ComOcta Gold Abutment, ComOcta Temporary Abutment • Regular, Wide

Prosthetic Flow Diagrams for SS System

Screw & Cement Retained Restoration: Octa Abutment • Regular, Wide

Ti Screw

Fixture Lab Analog

Cover Screw

Closing Screw

Healing Abutment

1.2 Hex Driver

SS II, SS III, SS Ultra-Wide®
**SS II Fixture**

- **Simple Mount System**
- **Hanaro Abutment System**

### SS II Fixture Order Code

- **Fixture Only**
  - Fixture : Product Code (ex : SS2R1808)
- **Pre-Mounted Fixture (Simple Mount)**
  - Fixture + Simple Mount + Cover Screw : A + Fixture Product Code (ex : A SS2R1808)
- **Pre-Mounted Fixture (Hanaro Abutment)**
  - Fixture + Hanaro Abutment + Cover Screw : H + Fixture Product Code (ex : H SS2R1808)

### Features of SS II Fixture

- Internal octa non-submerged fixture
- 0.8 [mm] pitched triangular screw offers excellent primary bonding and well-distributed masticatory force
- Connection with the superstructure exists inside the fixtures, causing absolutely zero shaking and preventing bone absorption
- Machined surface G/H [1.8/2.0/2.8] part offers bio-affinity with gingival tissue and facilitates plaque control
- Inclined tip shape enhances early penetration
- 4-bladed cutting edge with excellent self-tapping force
- RBM surface with excellent bio-affinity
- Limited insertion torque: 40 Ncm

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

### OSSTEM IMPLANT SYSTEM

#### Fixture Platform

- **Mini**
  - Platform ≈ 3.3
  - Diameter ≈ 3.3
- **Regular**
  - Platform ≈ 4.1
  - Diameter ≈ 4.1
- **Wide**
  - Platform ≈ 6.0
  - Diameter ≈ 4.8

#### Fixture Platform Dimensions

<table>
<thead>
<tr>
<th>P</th>
<th>D</th>
<th>L</th>
<th>G/H</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5</td>
<td>3.5</td>
<td>1.8</td>
<td>2.8</td>
</tr>
<tr>
<td>10</td>
<td>3.3</td>
<td>1.8</td>
<td>2.8</td>
</tr>
<tr>
<td>11.5</td>
<td>4.8</td>
<td>1.8</td>
<td>2.8</td>
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<tr>
<td>13</td>
<td>4.1</td>
<td>1.8</td>
<td>2.8</td>
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<tr>
<td>15</td>
<td>4.8</td>
<td>1.8</td>
<td>2.8</td>
</tr>
</tbody>
</table>

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

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*OSSTEM System*
SS III Fixture

Feature of SS III Fixture

- Internal octa non-submerged fixture
- Taper body offers excellent primary bonding
- Corkscrew Thread & Cutting Edge
  - Powerful self threading
  - Change path easily
  - Increased insertion torque in soft bone
  - Increased initial stability in soft bone
- RBM surface with excellent bio-affinity
- Limited insertion torque: 40 Ncm
- Able to have primary bonding for immediate loading in soft bone
- In variable oral environment

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

SS III Fixture Order Code

- **Fixture Only**
  - Fixture: Product Code (ex: SS3R4001R18)
- **Pre-Mounted Fixture (Simple Mount)**
  - Fixture + Simple Mount + Cover Screw: A Fixture Product Code (ex: ASS3R4001R18)
SS Ultra-Wide® Fixture

Features of SS Ultra-Wide Fixture

- Internal octa non-submerged wide diameter fixture
- Compatible with SS wide abutment components
- A fixture that is convenient to use in case of immediate insertion following posterior tooth extract socket and replacement of failed implants
- Connection with the superstructure exists inside the fixtures, causing absolutely zero shaking and preventing bone absorption
- Machined surface G/H(2.0) part offers bio-affinity with gingival tissue and facilitates plaque control
- Optimized apex design that enables gaining stable initial fixation even at 3 mm below the extract socket
- All RBM surfaces with excellent bio-affinity
- Limited insertion torque: 40 Ncm
**Simple Mount**

<table>
<thead>
<tr>
<th>Code</th>
<th>Platform</th>
<th>Ø 3.5</th>
<th>Ø 4.8</th>
<th>Ø 6.0</th>
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</thead>
<tbody>
<tr>
<td>ESFM100</td>
<td>ISFM480</td>
<td>ISFM600</td>
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</tr>
</tbody>
</table>

- Color indication facilitates the identification in the oral cavity
- Use a 1.2 hex driver to remove screws
- Packing unit: Mount + Mount Screw
- Tightening torque: 5-8 Ncm

**Cover Screw**

<table>
<thead>
<tr>
<th>Code</th>
<th>Platform</th>
<th>Ø 3.5</th>
<th>Ø 4.8</th>
<th>Ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSCS480</td>
<td>SSC600</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Use 0.9 (mini) and 1.2 (regular and wide) hex drivers
- Packing unit: Cover Screw
- Tightening torque: 5-8 Ncm

**Headless Cover Screw**

<table>
<thead>
<tr>
<th>Code</th>
<th>Platform</th>
<th>Ø 3.5</th>
<th>Ø 4.8</th>
<th>Ø 6.0</th>
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<tbody>
<tr>
<td>HCM100</td>
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</table>

- Use for limited proximal space or suturing with deficient gingiva
- Use a 0.9 hex driver
- Packing unit: Headless Cover Screw
- Tightening torque: 5-8 Ncm

**Closing Screw**

<table>
<thead>
<tr>
<th>Code</th>
<th>Platform</th>
<th>Ø 4.8</th>
<th>Ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSCS480N</td>
<td>SSCS600N</td>
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</tbody>
</table>

- Use for limited proximal space or suturing with deficient gingiva
- Use a 1.2 hex driver
- Packing unit: Closing Screw
- Tightening torque: 5-8 Ncm

**Healing Abutment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Platform</th>
<th>Ø 4.8</th>
<th>Ø 6.0</th>
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</thead>
<tbody>
<tr>
<td>SSH482</td>
<td>SSH483</td>
<td>SSH603</td>
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</table>

- Use a 1.2 hex driver
- Packing unit: Healing Abutment
- Tightening torque: 5-8 Ncm
### Solid Abutment Components

#### Solid Abutment

**Cement Retained Restoration**

<table>
<thead>
<tr>
<th>Size</th>
<th>Platform</th>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0</td>
<td>SSS484</td>
<td>SSS604</td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>SSS485</td>
<td>SSS605</td>
<td></td>
</tr>
<tr>
<td>7.0</td>
<td>SSS487</td>
<td>SSS607</td>
<td></td>
</tr>
</tbody>
</table>

- Use for making general cement-type prosthesis.
- Abutment and screw in one
- R° Morse taper design with stable connection
- Cross-section design for the prevention of prosthesis rotation
- ø 4.8: Use a solid abutment driver.
- ø 6.0: Use a 1.2 hex driver.
- Packing unit: Abutment + Healing cap
- Tightening torque: 30 Ncm

Order code = Abutment + Healing cap / Product code + P (ex: SSSA60P)

#### Solid Impression Coping

<table>
<thead>
<tr>
<th>Size</th>
<th>Platform</th>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0</td>
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<td>SSIC604</td>
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</tr>
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<td>5.5</td>
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</tr>
<tr>
<td>7.0</td>
<td>SSIC487</td>
<td>SSIC607</td>
<td></td>
</tr>
</tbody>
</table>

- Solid abutment component for taking an impression
- Color indication enables the easy identification of abutments of varying lengths
- ø 4.0mm(Yellow), 5.5mm(Grey), 7.0mm(Blue)
- Packing unit: Impression Coping
- Solid Positioning Cylinder + Solid Impression Cap
- Solid Impression Coping

#### Solid Lab Analog

<table>
<thead>
<tr>
<th>Size</th>
<th>Platform</th>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
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<td>SSSA604</td>
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<tr>
<td>5.5</td>
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<tr>
<td>7.0</td>
<td>SSSA487</td>
<td>SSSA607</td>
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</table>

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

#### Solid Plastic Coping

<table>
<thead>
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<th>Size</th>
<th>Platform</th>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
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<td>SSSP480S</td>
<td>SSSP480B</td>
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</tr>
<tr>
<td>Bridge</td>
<td>SSSP480B</td>
<td>SSSP480B</td>
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</table>

- Use as a framework of prosthesis by connecting to solid lab analogs
- Color indication facilitates the identification of different cases
- Single (Red color), Bridge (White color)
- After prosthetic casting, the margin may be adjusted by a special-purpose reamer
- Packing unit: Plastic Coping
SS System

### Excellent Solid Abutment

**Cement Retained Restoration**

- Advantageous for the modification of abutments into larger volume than solid abutments
- Abutment and screw in one
- Morse taper design with stable connection
- Cross-section design for the prevention of prosthesis rotation
- \( \phi 4.8 \): Use an Excellent Solid abutment driver.
- \( \phi 6.0 \): Use a 1.2 hex driver.
- Packing unit: Abutment + Protect Cap
- Tightening torque: 30 Ncm

<table>
<thead>
<tr>
<th>Order code</th>
<th>Abutment + Healing cap</th>
<th>Product code + P (ex: SSE485P)</th>
</tr>
</thead>
</table>

**Impression components used for cutting solid abutment**

**Solid Shoulder Analog**

- Make a fixture platform on the working model
- Packing unit: Shoulder Analog

**Solid Shoulder Analog Pin**

- Impression components used for cutting solid abutment
- Use by connecting to solid shoulder analogs
- Supplementary component for preventing fracture on a working model
- Packing unit: Shoulder Analog Pin

**Impression components used for cutting solid abutments**

**Solid Impression Cap**

<table>
<thead>
<tr>
<th>Platform</th>
<th>( \phi 4.8 )</th>
<th>( \phi 6.0 )</th>
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</thead>
<tbody>
<tr>
<td>Code</td>
<td>SSSIP#80</td>
<td>SSSIP#60</td>
</tr>
</tbody>
</table>

- Solid abutment components for taking an impression
- Use by connecting to solid positioning cylinders.
- Convenient locking
- Packing unit: Impression Cap

**Solid Impression Cap**

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

**Solid Impression Cap**

<table>
<thead>
<tr>
<th>Platform</th>
<th>( \phi 4.8 )</th>
<th>( \phi 6.0 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>SSSIP#80</td>
<td>SSSIP#60</td>
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</tbody>
</table>

**Excellent Solid Protect Cap**

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

**Excellent Solid Protect Cap**

<table>
<thead>
<tr>
<th>Platform</th>
<th>( \phi 4.8 )</th>
<th>( \phi 6.0 )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>SSSIP#80</td>
<td>SSSIP#60</td>
</tr>
</tbody>
</table>
### Excellent Solid Impression Coping

- **Diameter:** Ø 4.8 and Ø 6.0
- **Features:**
  - Excellent Solid abutment component for taking an impression
  - Color indication enables the easy identification of abutments of varying lengths: 4.0mm(Yellow), 5.5mm(Grey), 7.0mm(Blue)
  - Packing unit: Impression Coping
  - Excellent Solid Positioning Cylinder + Excellent Solid Impression Cap
  - Solid Impression Coping

### Excellent Solid Lab Analog

- **Diameter:** Ø 4.8 and Ø 6.0
- **Features:**
  - Make aesthetic oral abutments on the working model
  - Small groove for indication of O/H
  - Color-coding enables the easy identification of abutments of varying lengths: 4.0mm(Yellow), 5.5mm(Grey), 7.0mm(Blue)
  - Packing unit: Lab Analog

### Excellent Solid Plastic Coping

- **Diameter:** Ø 4.8 and Ø 6.0
- **Types:** Single, Bridge
- **Features:**
  - Use as a framework of prosthesis by connecting with Excellent Solid lab analogs
  - Color indication facilitates the identification of different cases
  - Single (Red color), Bridge (White color)
  - After prosthetic casting, the margin is adjusted by a special-purpose reamer
  - Packing unit: Plastic Coping

### Excellent Solid Impression Cap

- **Diameter:** Ø 4.8 and Ø 6.0
- **Code:** SSEIP480, SSEIP600
- **Features:**
  - Excellent Solid abutment component for taking an impression
  - Use by connecting to Excellent Solid positioning cylinders
  - Convenient locking
  - Packing unit: Impression Cap

### Excellent Solid Shoulder Analog

- **Diameter:** Ø 4.8 and Ø 6.0
- **Code:** SSEA480, SSEA600
- **Features:**
  - Impression components used for cutting Excellent Solid abutments
  - Make a fixture platform on a working model
  - Packing unit: Shoulder Analog

### Excellent Solid Shoulder Analog Pin

- **Diameter:** Ø 4.8 and Ø 6.0
- **Code:** SSEAP480, SSEAP600
- **Features:**
  - Impression components used for cutting Excellent Solid abutments
  - Use by connecting to Excellent Solid shoulder analogs
  - Supplementary components for preventing fracture on a working model
  - Packing unit: Shoulder Analog Pin
### ComOcta Abutment
Cement Retained Restoration

<table>
<thead>
<tr>
<th>Platform</th>
<th>φ 4.8</th>
<th>φ 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octa</td>
<td>SSAC484</td>
<td>SSAC604</td>
</tr>
<tr>
<td>Non-Octa</td>
<td>SSAC485</td>
<td>SSAC605</td>
</tr>
<tr>
<td>Screw</td>
<td>Ti</td>
<td>EbonyGold</td>
</tr>
<tr>
<td></td>
<td>ASR200*</td>
<td>ASR200W</td>
</tr>
</tbody>
</table>

- Use for making general cement-type prosthesis
- Cross-section design for the prevention of prosthesis rotation
- 8° Morse taper design with stable connection
- Use a 1.2 hex driver
- Packing unit: Abutment + Ti Screw
- Tightening torque: 30 Ncm

**Order code** - Abutment + Ti Screw: Product code + TH (ex: SSAC485TH)

- EbonyGold Screw: Can be purchased separately

### ComOcta Plus Abutment
Cement Retained Restoration

<table>
<thead>
<tr>
<th>Platform</th>
<th>φ 4.8</th>
<th>φ 6.0</th>
</tr>
</thead>
<tbody>
<tr>
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<td>SSAC604C</td>
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<tr>
<td>Non-Octa</td>
<td>SSAC485C</td>
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<tr>
<td>Screw</td>
<td>Ti</td>
<td>EbonyGold</td>
</tr>
<tr>
<td></td>
<td>ASR200*</td>
<td>ASR200W</td>
</tr>
</tbody>
</table>

- Use for thick gingiva and in case of deeply grafted fixtures
- Original gold color for aesthetic effect
- Shoulder contact with the fixture platform
- Use a 1.2 hex driver
- Packing unit: Abutment + Ti Screw
- Tightening torque: 30 Ncm

**Order code** - Abutment + Ti screw / Product code + TH (ex: SSAC4824CTH)

- EbonyGold Screw: Can be purchased separately

### ComOcta Angled Abutment
Cement Retained Restoration

<table>
<thead>
<tr>
<th>Angle</th>
<th>Platform</th>
<th>φ 4.8</th>
<th>φ 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>15°</td>
<td>SSAC4815</td>
<td>SSAC6015</td>
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</tr>
<tr>
<td>20°</td>
<td>SSAC4820</td>
<td>SSAC6020</td>
<td></td>
</tr>
<tr>
<td>Screw</td>
<td>Ti</td>
<td>EbonyGold</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ASR200*</td>
<td>ASR200W</td>
<td></td>
</tr>
</tbody>
</table>

- Use for the path adjustment of prosthesis.
- 8° Morse taper design with stable connection
- Since screw loosening occurs somewhat frequently, EbonyGold Screw is recommended
- Use a 1.2 hex driver
- Packing unit: Abutment + Ti Screw
- Tightening torque: 30 Ncm

**Order code** - Abutment + Ti screw / Product code + TH (ex: SSAC4815TH)

- EbonyGold Screw: Can be purchased separately
### ComOcta Gold Abutment
**Screw & Cement Retained Restoration**

<table>
<thead>
<tr>
<th>Type</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octa</td>
<td>CDG480B</td>
</tr>
<tr>
<td>Non-Octa</td>
<td>CDG480B</td>
</tr>
</tbody>
</table>

- **Screw**
  - EbonyGold
  - ASR200W

- **Use** for cases with path and aesthetic and spatial constraints
- **Shoulder contact** with the fixture platform
- **After customization**, be sure to use only dental gold alloy for casting to make the prosthesis
- **Melting point range of abutments (Au, Pt, Pd Alloy) : 1600 - 1450°C**
- **Use** non-Octa type for an excessively dislocated path
- **Melting point range of abutments (Au, Pt, Pd Alloy) : 1400 - 1450°C**

- **Use** a 1.2 hex driver
- **Packaging unit** : Impression Coping Body + Guide Pin
- **Tightening torque** : 30 Ncm

**Order code**
- Abutment + Ti Screw : Product code + TH [ex : COG480STH]

- **EbonyGold Screw** : Can be purchased separately

### ComOcta Temporary Abutment
**Screw Retained Restoration**

<table>
<thead>
<tr>
<th>Type</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octa</td>
<td>SSTAO480</td>
</tr>
<tr>
<td>Non-Octa</td>
<td>SSTAO480N</td>
</tr>
</tbody>
</table>

- **Use** to make a temporary prosthesis
- **Easy to customize & Minimize limitation for indiactant**
- **Use** a 1.2 hex driver
- **Packaging unit** : Abutment + Ti Screw
- **Tightening torque** : 20 Ncm

**Order code**
- Abutment + Ti Screw : Product code + TH [ex : SSTAO480TH]

### Fixture Transfer Impression Coping

<table>
<thead>
<tr>
<th>Platform</th>
<th>Ø 4.8</th>
<th>Ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octa</td>
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<td>SSTCI640N</td>
</tr>
<tr>
<td>Non-Octa</td>
<td>SSTCI640N</td>
<td></td>
</tr>
</tbody>
</table>

- **Transfer type for taking an impression using a ready-made tray**
- **Triangular arc** design improves markability following impression
- **Long and short types** enhance convenience
- **Use** a 1.2 hex driver
- **Packaging unit** : Impression Coping Body + Guide Pin [Octa] Impression Coping (Non-Octa)

**Order code**
- Abutment + Ti Screw : Product code + TH [ex : SSTCI640TH]

### Fixture Lab Analog

<table>
<thead>
<tr>
<th>Platform</th>
<th>Ø 4.8</th>
<th>Ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>SSTFA600</td>
<td></td>
</tr>
</tbody>
</table>

- **Oral fixtures are built on the working model**
- **Small Groove** for indication of Ø/H
- **Color-coding enables the easy identification of platform size of varying lengths**

**Order code**
- Abutment + Ti Screw : Product code + TH [ex : SSTFA600TH]
Octa Abutment Components

Octa Abutment
Screw Retained Restoration

- Use for a path-dislocated bridge to make screw-retained prosthesis
- Designed to make the prosthesis onto a cylinder following abutment connection in the oral cavity
- Use an Octa abutment driver
- Packing unit: Abutment
- Tightening torque: 30 Ncm

<table>
<thead>
<tr>
<th>Platform</th>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>S5OA480</td>
<td>S5OA600</td>
</tr>
</tbody>
</table>

Octa Protect Cap

- Use for the protection of Octa abutments in the oral cavity and to minimize the patient’s discomfort
- Use a 1.2 hex driver
- Packing unit: Protect Cap + Ti Screw
- Tightening torque: 20 Ncm

<table>
<thead>
<tr>
<th>Platform</th>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>S5HC480</td>
<td>S5HC600</td>
</tr>
<tr>
<td>Ti Screw</td>
<td>SSFS</td>
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</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Platform</th>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octa</td>
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<td>S5OCO600</td>
<td></td>
</tr>
<tr>
<td>Non-Octa</td>
<td>S5OCN480</td>
<td>S5OCN600</td>
<td></td>
</tr>
<tr>
<td>Screw</td>
<td>SSFS*</td>
<td>SSFSW</td>
<td></td>
</tr>
<tr>
<td>EbonyGold</td>
<td>SSFSW</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- After customization, be sure to use only dental gold alloy for casting to make the prosthesis
- Melting point range of cylinder (Au, Pt, Pd Alloy): 1400 - 1450°C
- Use a 1.2 hex driver
- Packing unit: Cylinder + Ti Screw
- Tightening torque: 20 Ncm

Order code - Protective Cap + Ti Screw: Product code + TH [ex: S5HC480TH]

Octa Gold Cylinder

<table>
<thead>
<tr>
<th>ø 4.8</th>
<th>ø 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Octa]</td>
<td>[Non-Octa]</td>
</tr>
</tbody>
</table>

Octa Combination Cylinder

- Make a combination retained prosthetics to use octa abutment
- The connection to have two advantage octa and Non-octa (Max. path compensation 60°)
- Use a 1.2 hex driver
- Packing unit: Abutment + Ti screw
- Tightening torque: 20 Ncm

<table>
<thead>
<tr>
<th>ø 6.0</th>
<th>ø 4.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Cylinder</td>
<td>Combination &amp; Temporary Cylinder</td>
</tr>
</tbody>
</table>

Order code - Cylinder + Ti Screw: Product Code + TH [ex: S5OCO480TH]

Octa Temporary Cylinder

- Use to make a temporary prosthetics.
- Easy to customize & Minimize limitation for indicant
- The connection to have two advantage octa and Non-octa (Max. path compensation 60°)
- Use a 1.2 hex driver
- Packing unit: Abutment + Ti screw
- Tightening torque: 20 Ncm

<table>
<thead>
<tr>
<th>ø 6.0</th>
<th>ø 4.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Octa]</td>
<td>[Non-Octa]</td>
</tr>
</tbody>
</table>

Production code

- Cylinder + Ti Screw: Product Code + TH [ex: S5OCO480TH]

Order code - Cylinder + Ti Screw: Product Code + TH [ex: S5OCO480TH]

EbonyGold Screw: Can be purchased separately
Octa Plastic Cylinder

- **φ 4.8**
  - [Octa] [Non-Octa]

- **φ 6.0**
  - [Octa] [Non-Octa]

Octa Pick-up Impression Coping

- **φ 4.8**
  - [Octa] [Non-Octa]

- **φ 6.0**
  - [Octa] [Non-Octa]

Octa Transfer Impression Coping

<table>
<thead>
<tr>
<th>Platform</th>
<th>φ 4.8</th>
<th>φ 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octa</td>
<td>SSICO480</td>
<td>SSICO600</td>
</tr>
<tr>
<td>Non-Octa</td>
<td>SSICN480</td>
<td>SSICN600</td>
</tr>
</tbody>
</table>

- **Ti Screw** | SSFS

- **Order code** - Cylinder + Ti Screw : Product code + TH (ex : SSPSO480 TH)

Octa Lab Analog

<table>
<thead>
<tr>
<th>Platform</th>
<th>φ 4.8</th>
<th>φ 6.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octa</td>
<td>SSLA480</td>
<td>SSLA600</td>
</tr>
<tr>
<td>Non-Octa</td>
<td>SSLN480</td>
<td>SSLN600</td>
</tr>
</tbody>
</table>

- **Guide Pin**
  - 10 : SSGL100
  - 15 : SSGL150

- **Make aesthetic oral abutments on the working model**
- **Small groove for indication of G/H**
- **Color-coding enables easy identification of abutments of varying lengths**
- **φ 4.8** for G/H
- **φ 6.0** for G/H

- **Packing unit** : Lab Analog

- **Osstem Implant System**
  - Fixure Platform
  - Octa Lab Analog
  - Octa Plastic Cylinder
  - Octa Pick-up Impression Coping
  - Octa Transfer Impression Coping

- **After customization, casting should be performed with dental alloys (gold, non-precious metal) to make the prosthesis**
- **The precision of the connection part is lower compared to gold cylinders**
- **Use a 1.2 hex driver**
- **Packing unit** : Cylinder + Ti Screw
- **Tightening torque** : 20 Ncm

- **Order code** - Cylinder + Ti screw : Product code + TH (ex : SSPSO480 TH)
O-ring System

O-ring Abutment Set (O-ring Set)

O-ring Abutment Set (Dalbo Set)

O-ring Abutment

Retainer Cap Set

Retainer Set

O-ring Set (for Laboratory)

<table>
<thead>
<tr>
<th>G / H</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SSRA000S2</td>
</tr>
<tr>
<td>2</td>
<td>SSRA200S</td>
</tr>
<tr>
<td>4</td>
<td>SSRA400S</td>
</tr>
</tbody>
</table>

- Use for making stud-type overdenture
- O-ring components
  - For lab use: Black color
  - For denture: Yellow color (4N), orange color (6N)
- Compensate the retention force through O-ring replacement
- Maximum path compensation of 20°
- Use an O-ring abutment driver
- Packing unit: Abutment + Retainer Cap + O-rings
- Tightening torque: 30Ncm

<table>
<thead>
<tr>
<th>G / H</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
<td>2</td>
<td>SSRA200D</td>
</tr>
<tr>
<td>4</td>
<td>SSRA400D</td>
</tr>
</tbody>
</table>

- Use for making stud-type overdenture
- Superior stability of retention force vs. O-ring
- Dalbo plus attachment components
- Compensate the retention force through internal lamella rotation (clockwise) using a special-purpose driver
- Maximum path compensation of 20°
- Use an O-ring abutment driver
- Packing unit: Abutment + Dalbo plus attachments
- Tightening torque: 30Ncm

<table>
<thead>
<tr>
<th>G / H</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SSRA000</td>
</tr>
<tr>
<td>2</td>
<td>SSRA200</td>
</tr>
<tr>
<td>4</td>
<td>SSRA400</td>
</tr>
</tbody>
</table>

- Packing unit: Only Abutment

O-ring for making the overdenture used in laboratories
- Packing unit: O-rings 5 piece

- Selective application through 2 types of O-ring retention force
- Excellent retention force and good sense of denture placement
- Packing unit: Retainer cap + O-rings

- More advantageous for smaller occlusal gap compared to a retainer cap
- Packing unit: Retainer + O-rings

- O-ring for making the overdenture used in laboratories
- Packing unit: O-rings 5 piece
LOCATOR® Components

O-ring Set [Low Retention]

- Oral O-ring with low retention force (approximately 4N)
- Packing unit: O-rings 5 piece

Code: OAO400S

O-ring Set [High Retention]

- Oral O-ring with high retention force (approximately 6N)
- Packing unit: O-rings 5 piece

Code: OAO600S

O-ring Lab Analog

- Making oral O-ring abutments on the working model
- Packing unit: Lab Analog

Code: OAL

HS LOCATOR® Abutment

Overdenture Restoration

Regular

\[ P' = 4.8 \]

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

Platform

<table>
<thead>
<tr>
<th>Code</th>
<th>P</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
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<td>H</td>
<td>HSLCA4820R</td>
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<td>3</td>
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<td>HSLCA4830R</td>
</tr>
<tr>
<td>4</td>
<td>H</td>
<td>HSLCA4840R</td>
</tr>
</tbody>
</table>

LOCATOR® Male Processing Kit

Packing Unit: Locator Male Processing Kit (2 Set)

- Consist of
  - Black out Spacer/Denture Cap connected Black Processing Male
  - Replacement Male (Blue/Pink/Clear)
  - Male Change by Locator Core Tool

Code: LMPS

LOCATOR® Replacement Male

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

Code: LRM06S

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

Code: LRM12S

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

Code: LRM22S
### LOCATOR® Extended Replacement Male

- **Code**: LEM06S
- **Packing Unit**: Red Extended Replacement Male (4ea)
- **Retention Force**: about 6N
- **20°~40° divergence (between two implants)**

- **Code**: LEM12S
- **Packing Unit**: Green Extended Replacement Male (4ea)
- **Retention Force**: about 12N
- **20°~40° divergence (between two implants)**

### LOCATOR® Black Processing Male

- **Code**: LBPS
- **Packing Unit**: Black Processing Male (4ea)
- **For lab. process**

### LOCATOR® Block out spacers

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

### LOCATOR® Impression Coping

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

### LOCATOR® lab Analog

- **Code**: LAL40S
- **Packing Unit**: Locator lab Analog (4ea)