TSIII SA Implant System

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**OSSTEM SA Surface**

*OSSTEM*-SA Surface

SA: Sand blasted with alumina and Acid etched surface

- Optimal morphology: Combination of crater and micro-pit
- Optimal surface roughness: Ra 2.5–3.0 μm
- Early cell response: 20% faster than RBM
- Early bone healing: 20% faster than RBM
- Early loading possible after 6 weeks of placement.

OSSTEM SA & ‘S’ surface morphology and roughness increased by 45% compared to RBM treatment.

**SEM** (Scanning Electron Microscope) image

**TSIII SA Implant overview**

TSIII SA implant, developed with extensive R&D experiences of Osstem Implant, features an SA surface treatment that fully exploits the excellent pluri-potential capacity of osteoblastic cells. It shortens the bone healing time, and improves the secondary attachment force. In addition, SA surface is adopted to have a convenient placement and initial stability due to its optimal body design.

- **Open Thread**
  - Prevents bone necrosis

- **Single Pitch Micro Thread**
  - 0.8pitch x 0.25depth x double lead
  - Synchronized thread
  - Optimized design for SA surface
  - Reinforce fixture strength

- **Corkscrew Thread**
  - 0.8pitch x 0.5depth x double lead
  - Powerful self threading
  - Keep implant path
  - Easy to change the path
  - High initial stability
  - Decrease sensitivity on drill size

- **Helix Cutting Edge**
  - Powerful self threading
  - Easy path change

- **Apical design**
  - Self drilling ability
  - Increased initial stability at fresh extraction socket
TSIII SA Implant overview

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TSIII SA Fixture can be specified by four different diameters (3.5, 4.0, 4.5 and 5.0mm), and by packaging for No-mount fixture and Pre-mounted fixture (Fixture + Mount + Cover screw). The surface treatment applied to TSIII Fixture is SA (Sand blasted with alumina and Acid etched).

NoMount Fixture
Fixture : Product Code (Ex:TS3S4011S)

Pre-mounted Fixture (Simple Mount)
Fixture + Mount + Cover Screw : B + Product Code (Ex: BTS3S4011S)

※ The following labeled dimension may differ from the actual dimension.
TSIII SA Implant overview

**TSIII SA Fixture Line Up**

TSIII SA Fixture has two types of abutment connection specifications: one is the Mini Connection for the ∅3.5 fixture, and the other is the Standard Connection for other diameters. The Mini Connection must be used with separate abutment; in contrast, the Standard Connection can be used with the same abutment for fixtures more than ∅4.0 regardless of the diameter.

### Cover Screw

<table>
<thead>
<tr>
<th>Color</th>
<th>Purple</th>
<th>Green</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixture</td>
<td>∅3.5</td>
<td>∅4.0, ∅4.5, ∅5.0, ∅6.0, ∅7.0</td>
</tr>
<tr>
<td>Code</td>
<td>GSCS35</td>
<td>GSCS35M</td>
</tr>
</tbody>
</table>

- Packing unit: Cover Screw
- Use a long cover screw when fixture implanted under the bone level
- 1.2 Hex Driver used
- Tightening torque: 5~8Ncm

**TSIII SA Packing System**

- New Ampoule User’s Guide
  - Applying: Grip type ampoule to protect TS III SA surface

1. Remove the back of blister (sterilized condition is not guaranteed once the blister is removed).
2. Remove the Capsule by rotating
3. Connect Driver; clicks when properly connected
4. Remove Fixture from grip holding