

Surgical Manual

SS Implant System

Introduction

Welcome,

and thank you for choosing Osstem Implant products. This catalogue is designed to support dental professionals with product information, clinical workflows, and practical guidance for daily use. It is important to inform patients about the option of dental implant treatment and the potential benefits it may provide. For further information, please contact your local Osstem representative.

Important Notice

This document is provided for **informational and educational purposes only** and does not replace the applicable product label, the current product-specific Instructions for Use (IFU), formal clinical training, or independent professional judgment. All product information, specifications, and protocols are subject to change without notice. Not all products may be approved, cleared, released, licensed, or available in all markets. Product illustrations are not shown to scale. Despite careful preparation of this catalogue, typographical, editorial, translation, or printing errors may occur. **All critical information must be verified against the current product-specific IFU and product label before use.**

Electronic IFU (per (EU) 2021/2226)

- Surgical Drill & KIT System is eligible for provision of electronic instructions for use (e-IFU) under Regulation (EU) 2021/2226 for professional users.
- e-IFUs are available at [website URL: ifu.osstem.com] in the official languages required by the Member State(s) where the device is placed on the market.
- The e-IFU content is consistent with the paper version; all updates are promptly reflected in both versions.
- If requested, a paper copy of the IFU will be supplied free of charge, within 7 calendar days.
- The e-IFU website maintains historical versions for traceability of all previously applicable instructions.
- Labeling on the product/package indicates the provision of e-IFU and how to access it online.

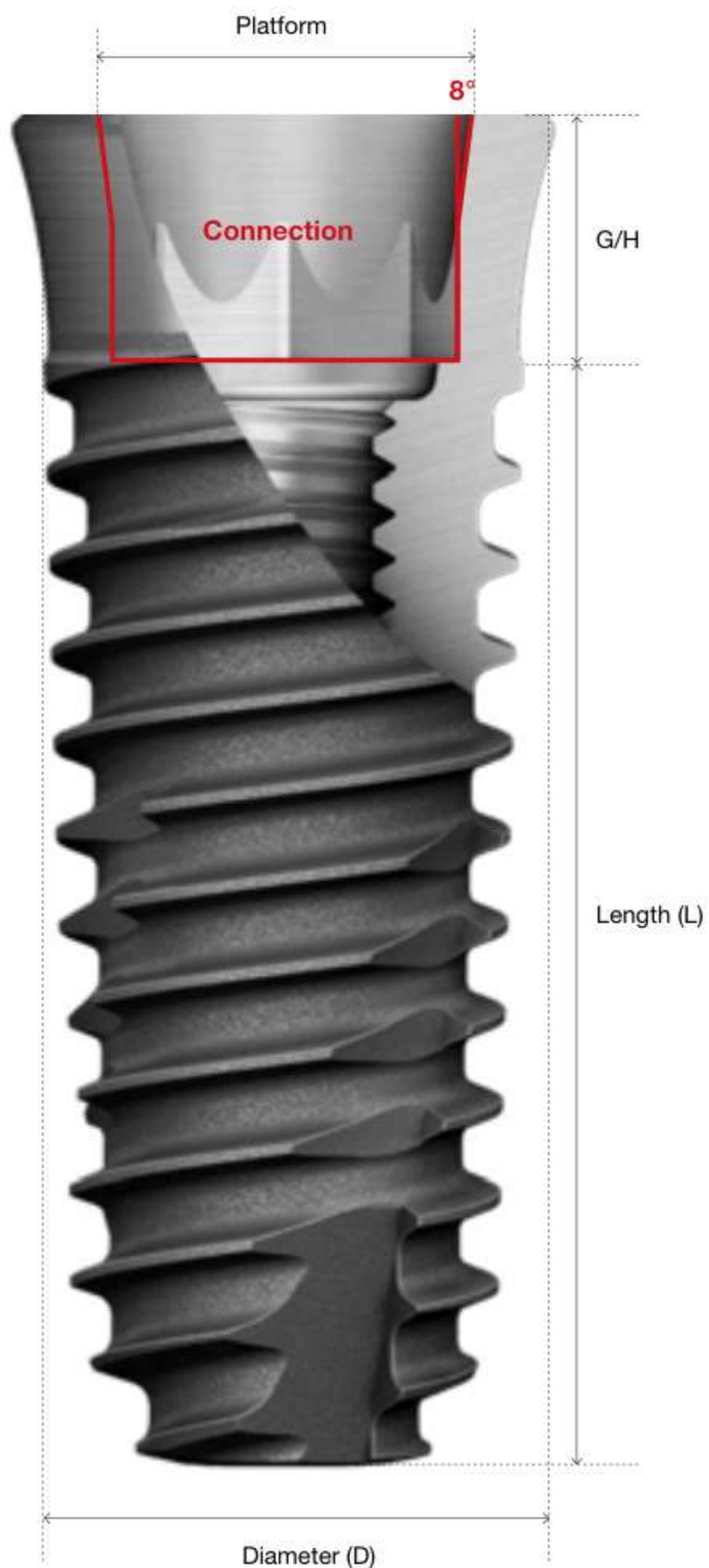
Surgical Manual | English Edition

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Note: *This brochure is based on the global 2021 Osstem Surgical Manual and has been visually revised and adapted for the European market. Product availability and specifications may vary by country and are subject to change without notice. Images are for illustrative purposes only. For professional use only.*

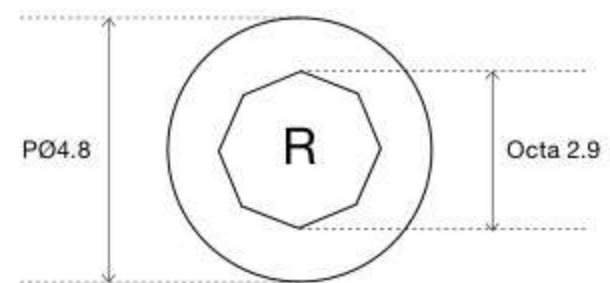
SS Implant



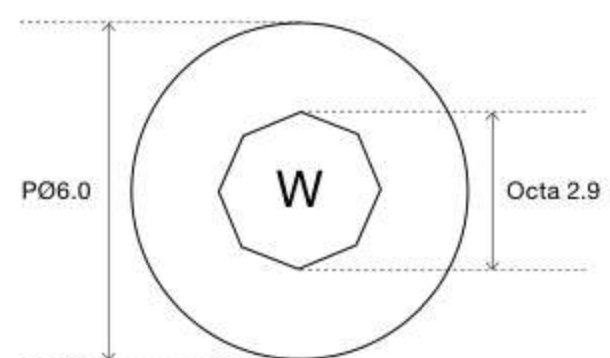
Concept

- Internal octa
- 8° morse taper
- Non-submerged type
- 1-stage surgery possible
- Advantageous for single case in the posterior
- Tissue level placement

Platform



Regular Ø4.8, Octa 2.9



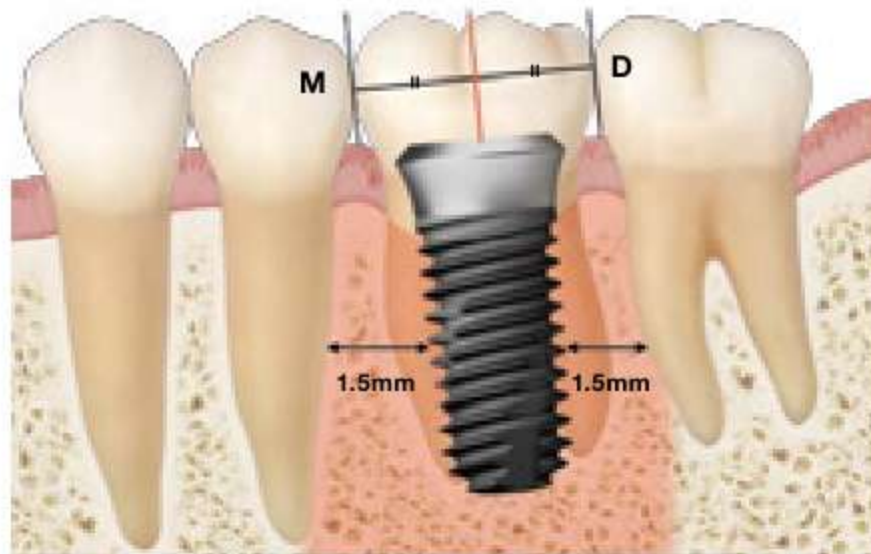
Wide Ø6.0, Octa 2.9

1 SS Implant placement protocol

A Placement position

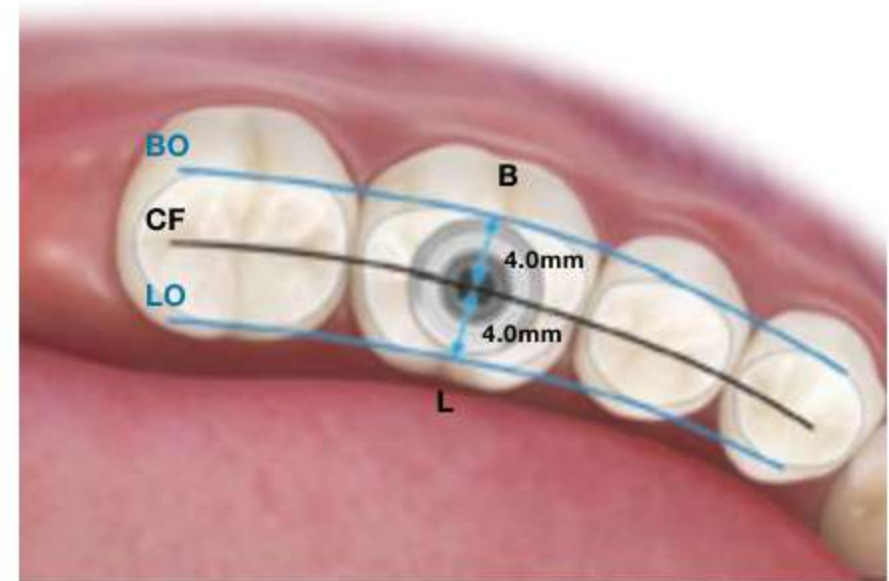
Mesio-distal position

- Place at the center of the mesiodistal width of the crown
- Distance between natural teeth and implant:
Min. 1.5mm [▶ Placement position p.8](#)



Bucco-lingual position

- Place implant at the center of the permanent prosthesis
- Here, since the screw hole is positioned at the center, a screw-type or ER-type prosthesis can be fabricated.



Common mistakes

- Mesial bias (from the center of the tooth) during placement



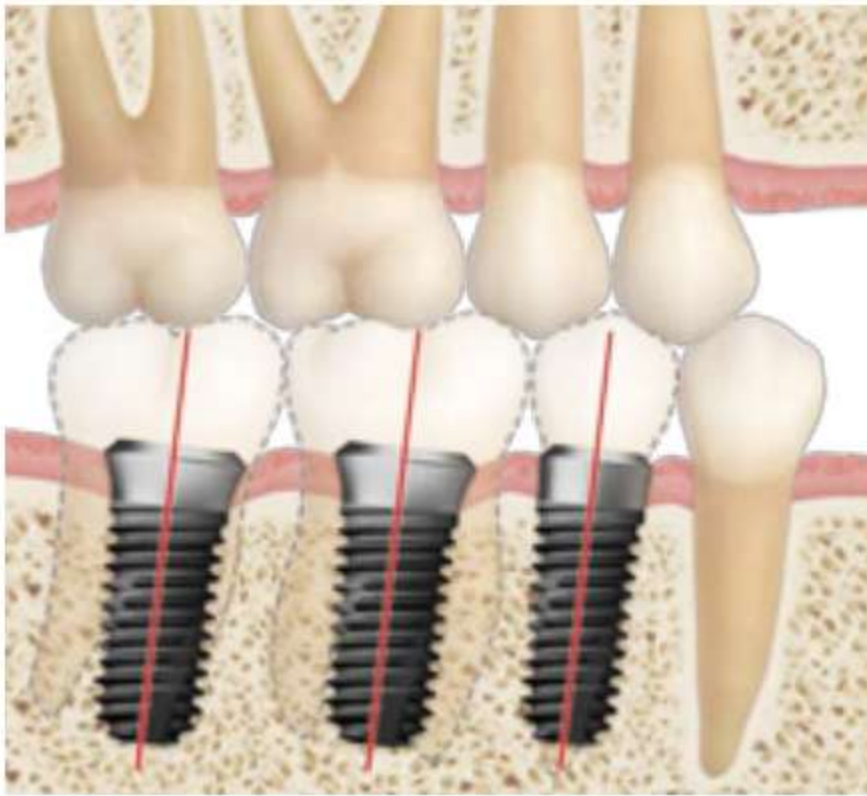
Mesial bias during placement

B Placement direction

Mesio-distal angle

- Place implant so that its central axis is pointing towards the interdental area of the antagonist teeth.

▶ Placement direction : p.16



Buccolingual direction

- Place implant so that its central axis is pointing towards the cusp of the antagonist teeth.

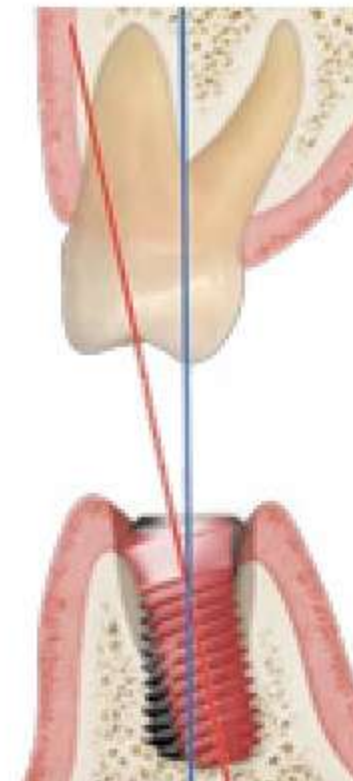


Common mistakes

- In the Panorama, the implant appears to have been placed correctly, but the apex has a lingual bias.



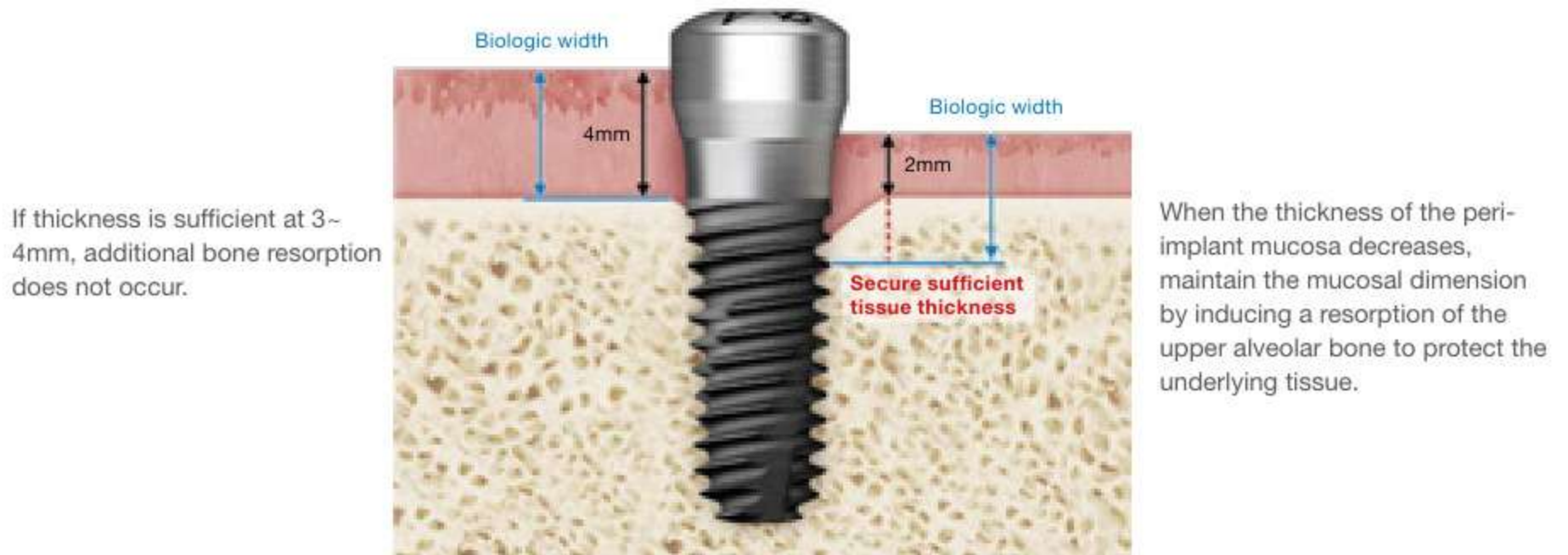
Appears correct in the Panorama



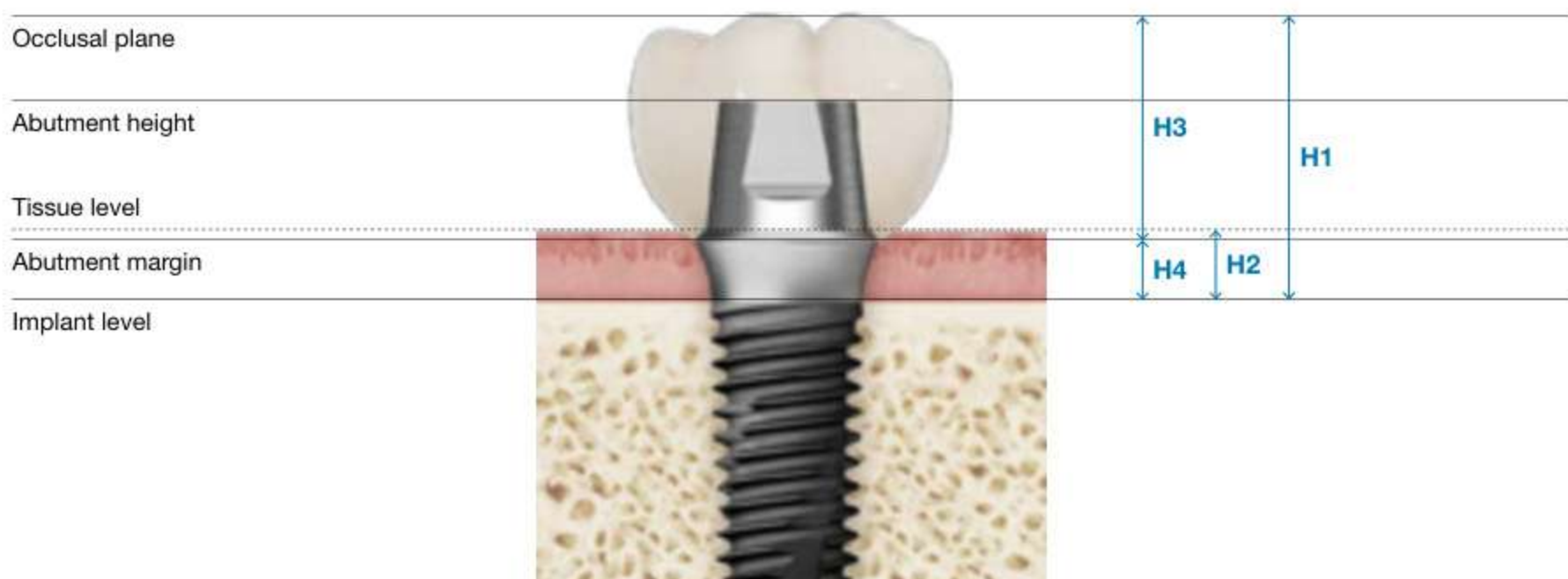
Viewing from a buccolingual direction, the apex has a lingual bias

C Placement depth

- Placement depth considering the biological width: Secure primary stability and adjust placement depth considering the biological width [▶ Biological width p.26](#)



- Implant placement depth taking prosthesis into consideration: The prosthetic plan after implant placement should be implemented in case of loading prosthesis in the wrong location, angle and depth of the implant. Therefore, there might be restriction in selecting type, material, shape of prosthesis.



Implant Crown length [▶ Placement depth considering the prosthesis p.27](#)

- H1** Appropriate distance from implant level to occlusal plane: Posterior 8mm
- H2** Distance from implant level to tissue level
- H3** Distance from the abutment margin to occlusal plane: Min. 6mm
- H4** Distance from implant level to abutment margin: Min. 2mm

Common mistakes

- Using an implant that has tall G/H(2.8mm) specification without considering the height of the gingiva.



The G/H specification of the implant is taller than the gingiva.



The collar part of the implant is exposed outside the gingiva

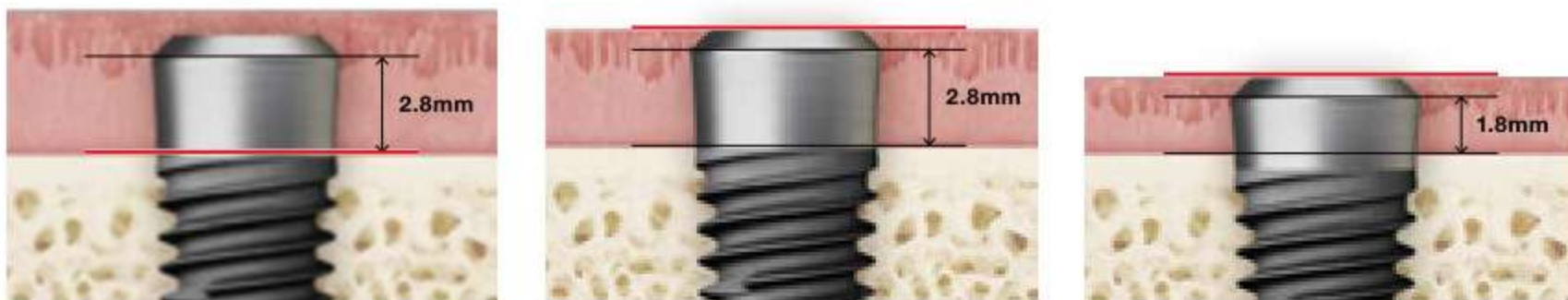


Unesthetic due to implant exposure



SS implant G/H specification selection according to soft tissue thickness

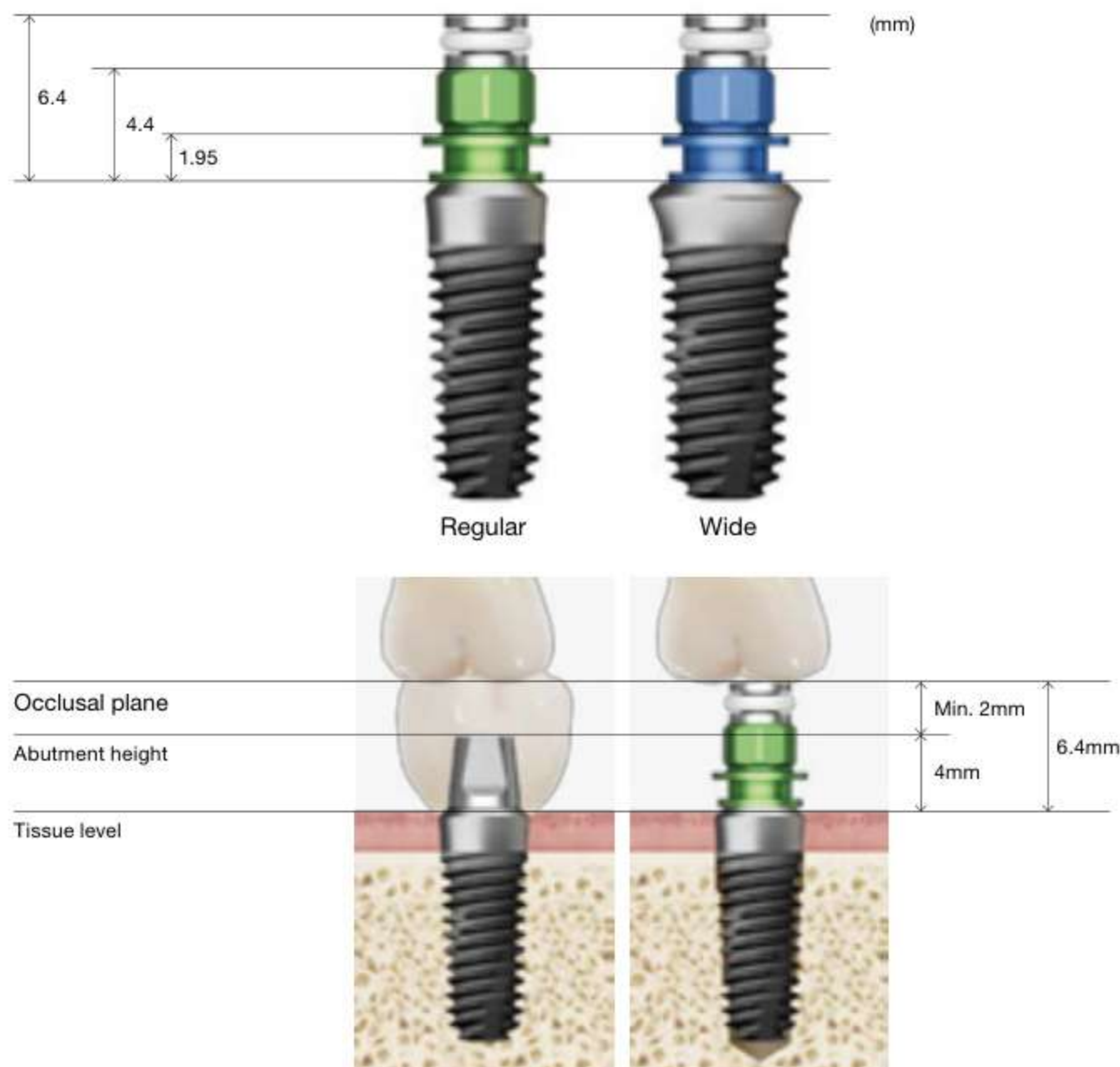
- SS implant G/H specifications are 1.8 and 2.8
- G/H specifications must be selected according to the thickness of the gingiva, and the implantation depth must be adjusted
- 3.5mm~: Select the 2.8mm specification and place it according to the bone level
- 3.0mm: Select the 2.8mm specification and place it according to the tissue level
- 2.0mm: Select the 1.8mm specification and place it according to the tissue level



2 Mount

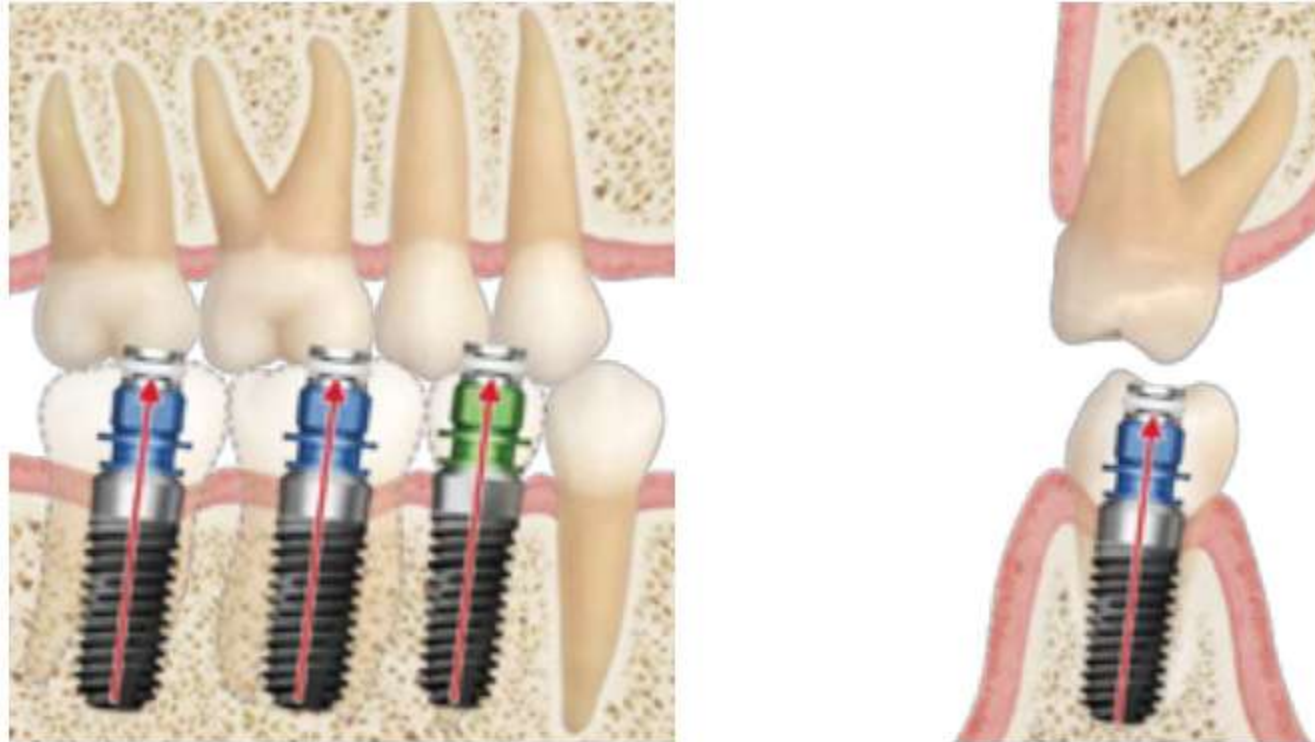
A Check available space for the prosthesis

- When placing a pre-mount implant, you can use the mount to check the space available for the prosthesis.
- Be able to check the expected prosthesis space taking the 6.4mm protruding part into consideration for the SS mount.



B Check placement direction

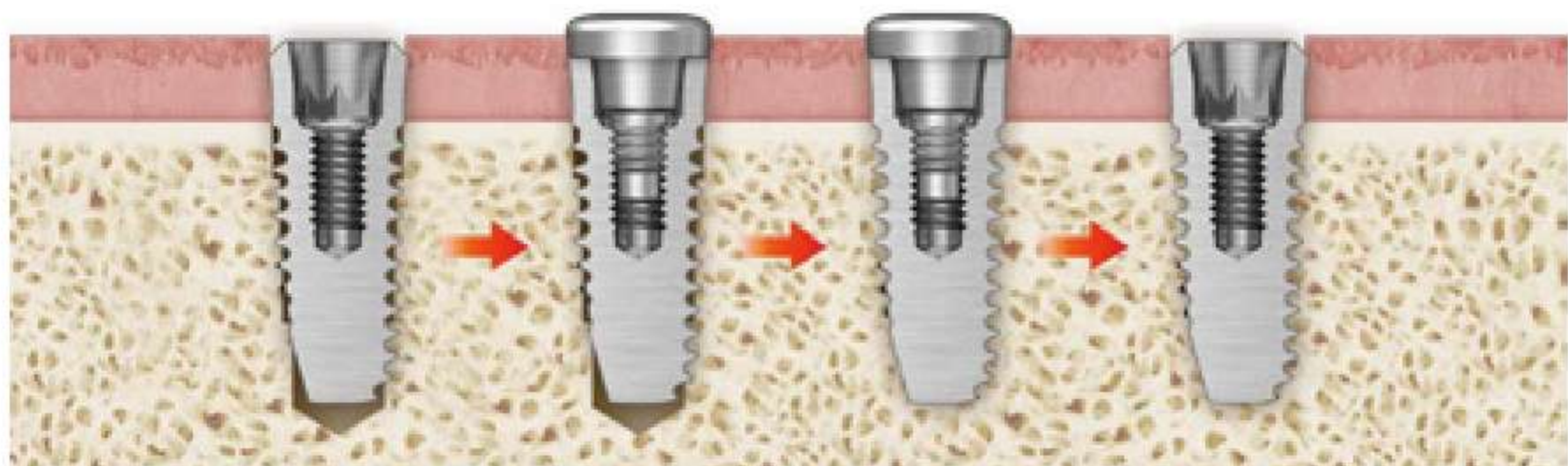
- Easy to check the implant angle after placement.
- Check whether the mount angle is headed towards the cental axis and interdental space of the natural antagonist teeth.



3 Cover screw

A Cover screw & closing screw applications

- In case of placing the SS implant, the cover screw protects the internal structure of the implant in osseointegration period after implant placement.
- Cover screw: Covers the upper bevel of the gingival implant (regular case)
- Closing screw: Use when the upper bevel of the gingival implant is not covered >> Minimize discomfort

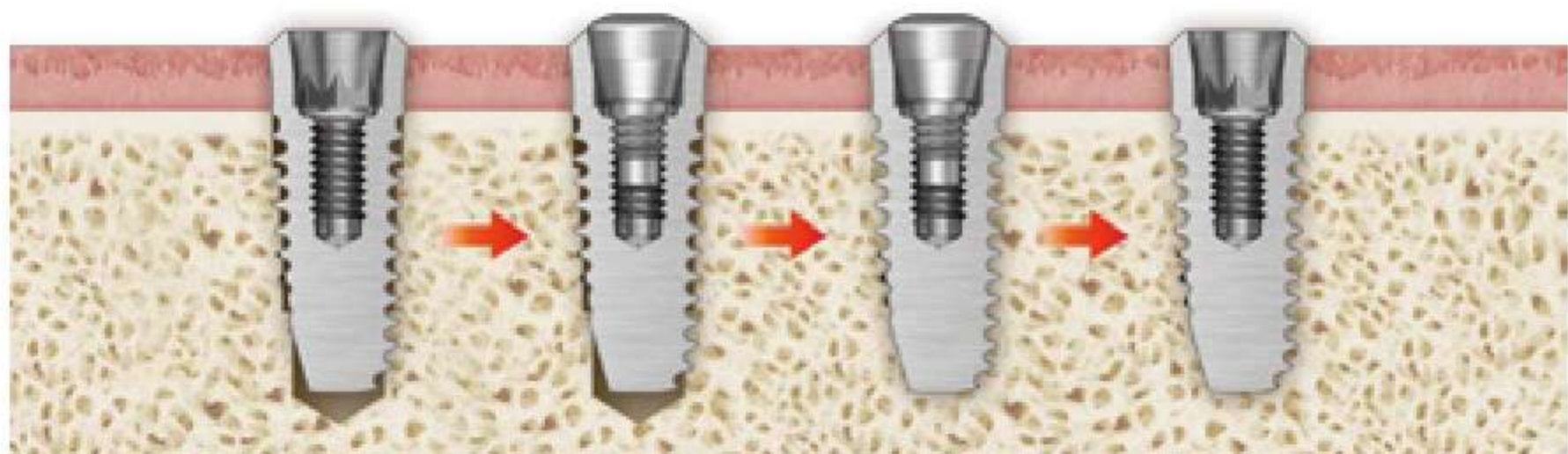


Place implant

Assemble cover screw

Healing

Remove cover screw



Place implant

Assemble closing screw

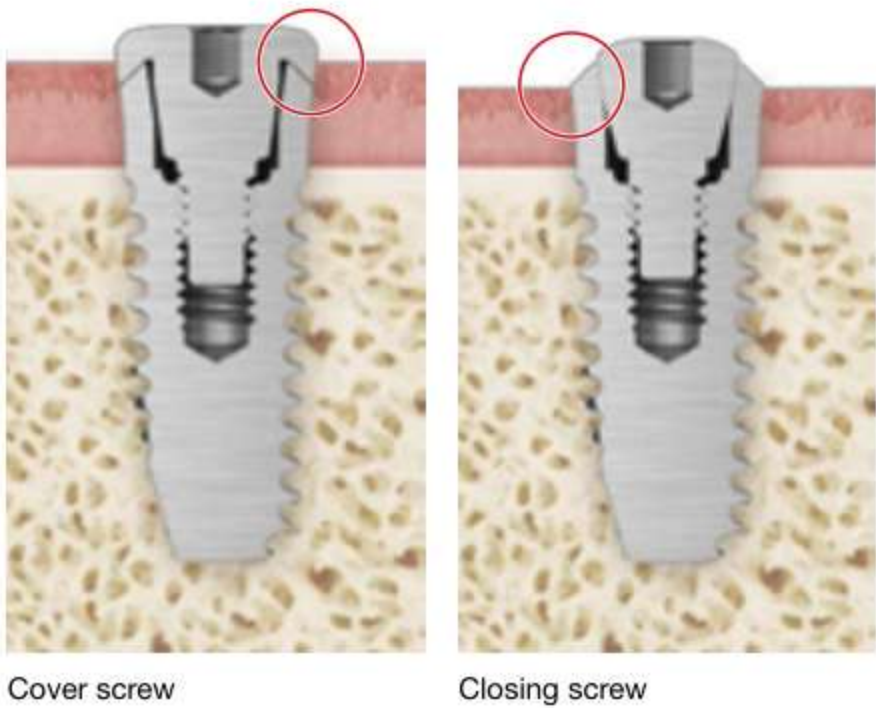
Healing

Remove closing screw

B How to select the correct specification

Step 1. Select cover screw, closing screw

- Select cover screw if the top bevel of the implant is covered by the gingiva, otherwise select the closing screw.



Step 2. Select platform

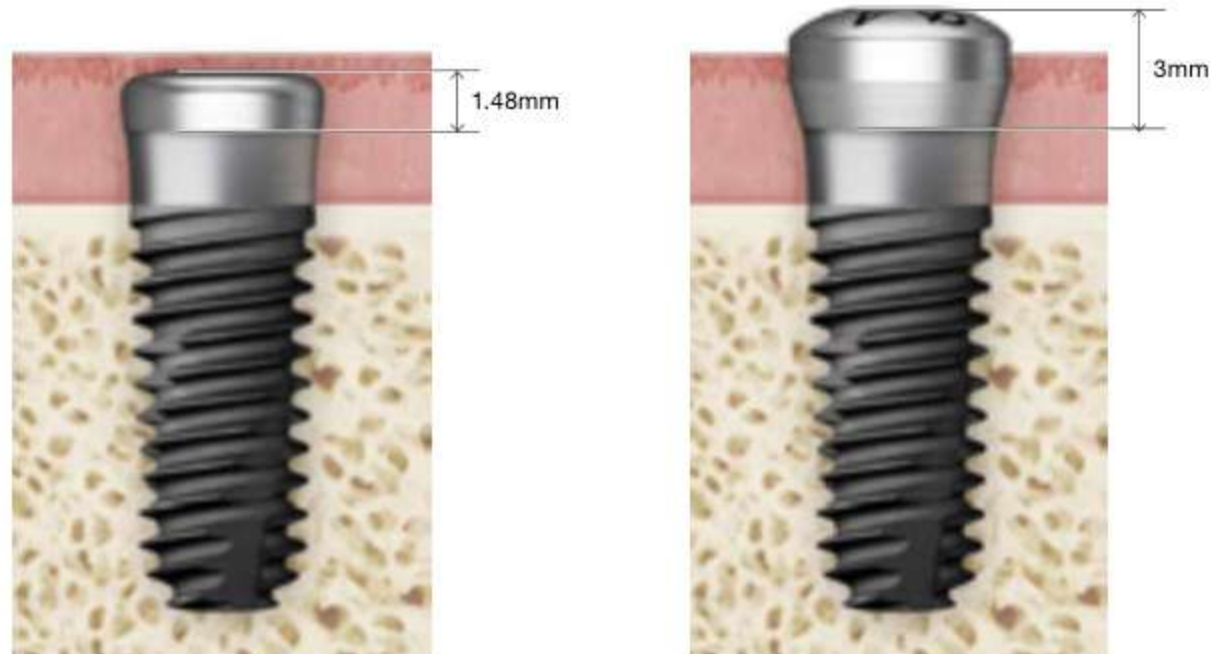
- Check whether the placed implant is mini or regular.
- Select the cover screw or closing screw of the same platform as the implant installed.

	Regular	Wide
 Cover screw		
 Closing screw		

4 Healing abutment

A Healing abutment applications

- Use when the implant is deeply placed and the cover screw cannot solve the problem.
- The healing abutment is to promote the healing of soft tissues and generate a transition zone to form the place where the prosthesis will be loaded.
- Transition zone: Space between the implant top and gingival line



B How to select the healing abutment specification

Step 1. Select platform

- Check whether the installed implant is platform regular or wide.
- Select the healing abutment of the same platform as the installed implant.
- For SS implants, the emergence profile of the permanent prosthesis is determined by the diameter of the collar. Therefore, only the **Regular** (Ø4.8) and **Wide** (Ø6.0) diameters are available for the healing abutment.

Regular healing abutment

Wide healing abutment



Regular platform Implant

Wide platform Implant

Step 2. Select height

- If the healing abutment is covered with the gingiva, a transition zone cannot be formed, so select it 1~2mm higher than the thickness of the gingiva.

