

OSSTEM[®]
IMPLANT

Surgical Manual

IM-Cure KIT

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

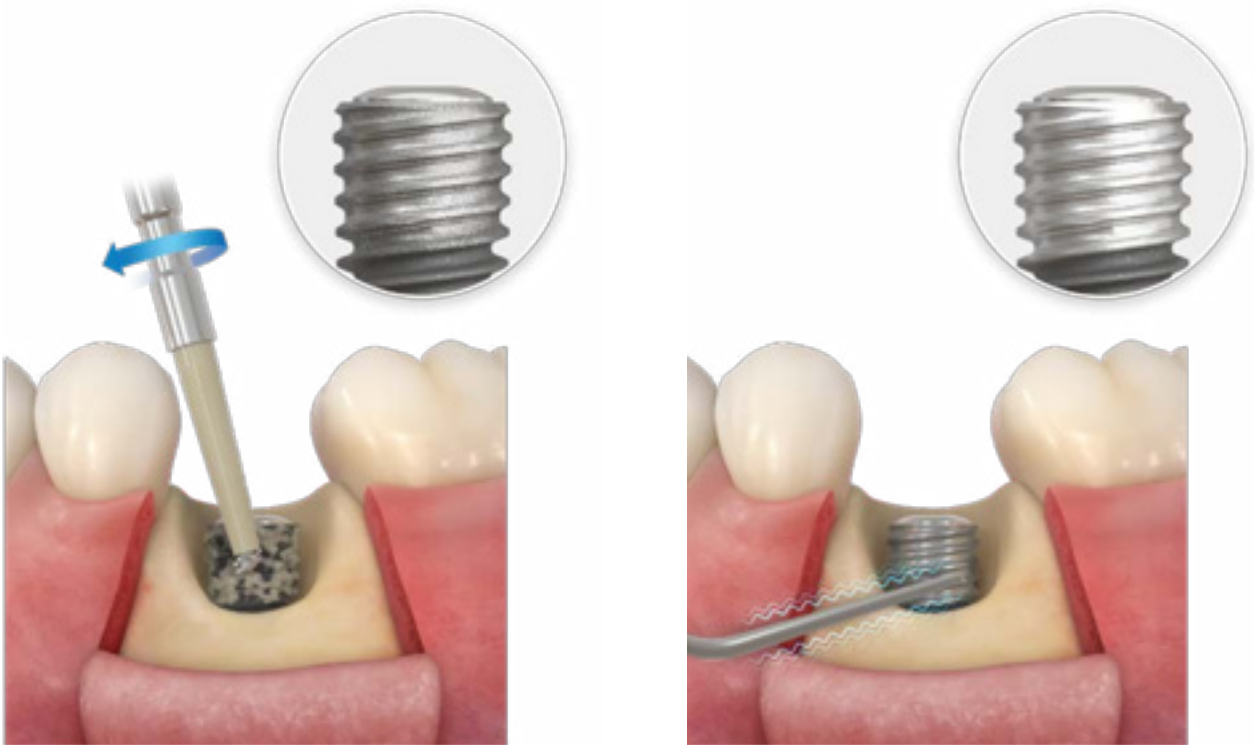
Publication date: April 2026

Publisher: Osstem Europe s.r.o.
Radlická 740/113c
158 00 Prague, Czech Republic

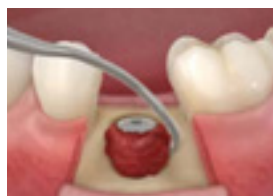
Note: *This brochure is based on the global 2021 Osstem Surgical Manual and has been visually revised and adapted for the European market. Product availability and specifications may vary by country and are subject to change without notice. Images are for illustrative purposes only. For professional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

IM-Cure KIT

The IM-Cure KIT minimizes damage to the implant surface and can be used in diagnosis and removal of peri-implantitis and mucositis.



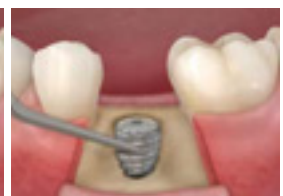
Diagnosis



Removal of granulation tissue



Surface polishing



1 Indication

A In the case of mucositis confined to soft tissue around the crown

- Remove mucositis with smart scaler comprising a plastic tip after diagnosis with a plastic probe.



B In the case of peri-implantitis caused by horizontal bone resorption

- Remove peri-implantitis with the smart brush 1 caused by horizontal bone resorption after diagnosis with a metal probe



C In the case of peri-implantitis caused by vertical bone resorption

- Remove peri-implantitis with smart brush 2 caused by vertical bone resorption after diagnosis with a metal probe.



2 Feature

A Consists of tools for diagnosis and removal

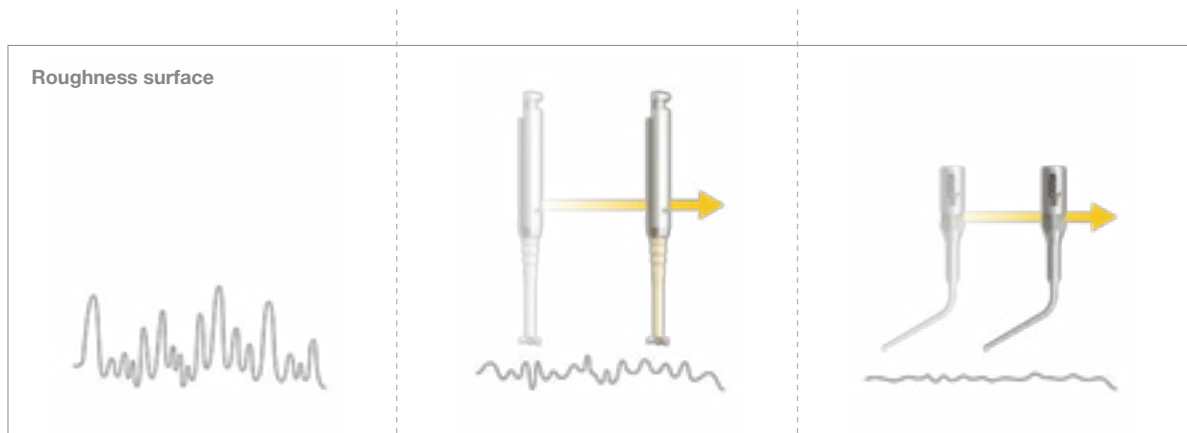


Tools for diagnosis

Tools for the treatment of soft tissue

Tools for polishing

B Consists of polishing tools that can minimize damage to the implant surface



SA surface implant



When using Smart brush1



When using Smart metal scaler

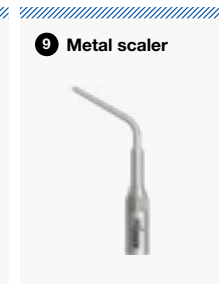
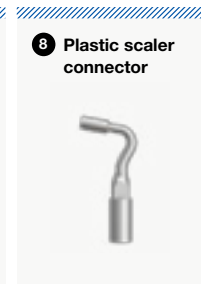
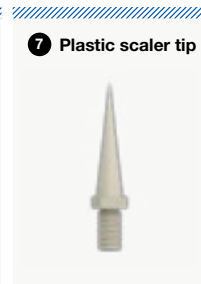
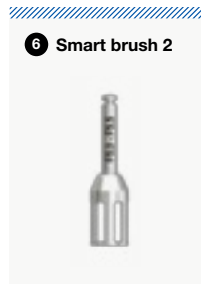
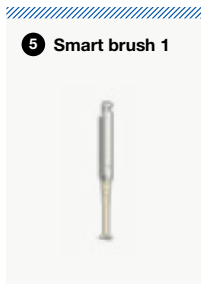
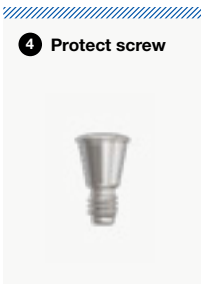
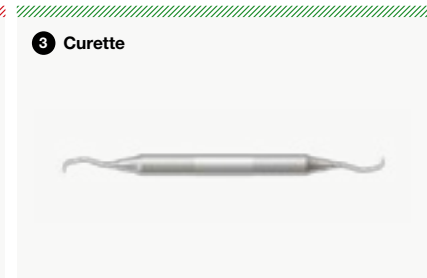
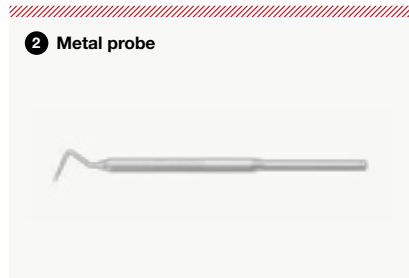
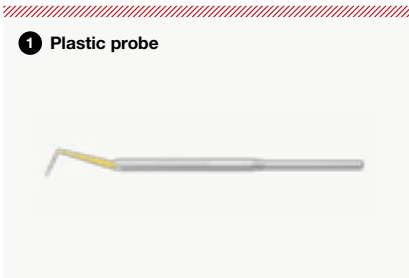
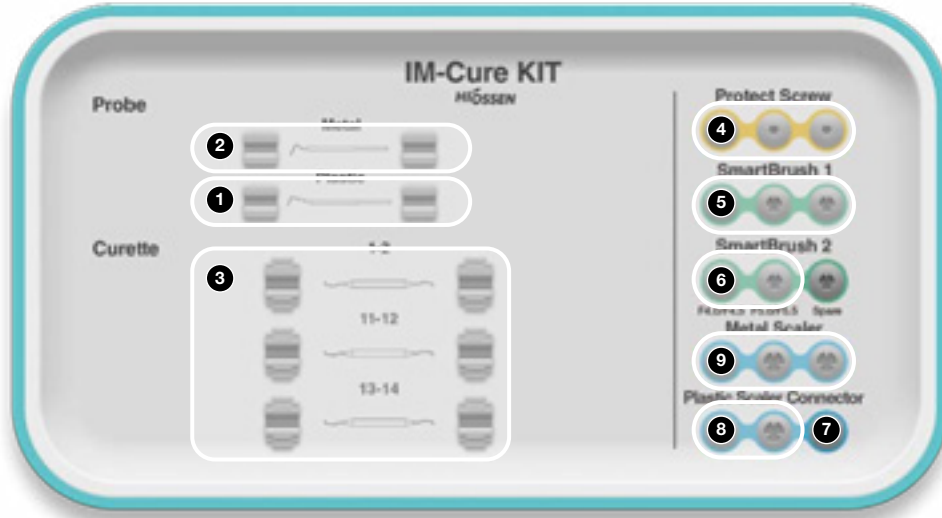
3 KIT Components

IM-Cure KIT

Tools for diagnosis (1~2)

Tools for soft tissue treatment (3)

Tools for polishing (4~9)



4 A guide to using the KIT components



Consists of tools for the diagnosis of the periodontal state



① Plastic probe



② Metal probe

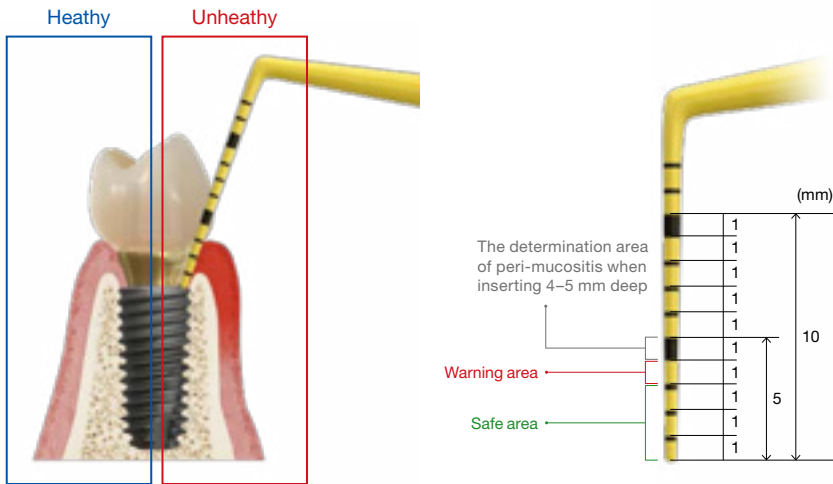
1 Plastic probe

Used for the diagnosis of peri-mucositis



Guideline on how to use

- Use it for accurate diagnosis of an area with visible inflammation but no bone resorption on X-ray.
- Insert the probe into the oral fissure relieving force (approximately 0.25 N) to prevent tissue from being damaged.
- The depth of insertion can be taken into consideration to determine the degree of peri-mucositis because the markings in 1mm increments are visible.
- It can prevent scratches on the implant surface because it is made of plastic.



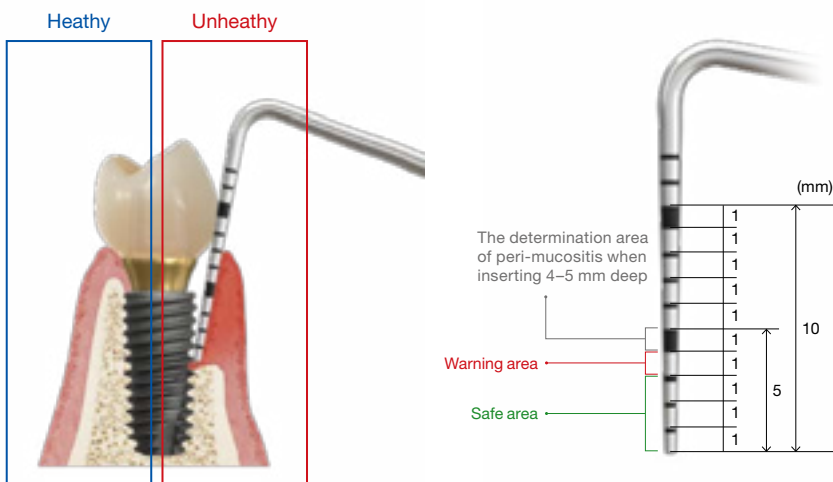
2 Metal probe

Used for the diagnosis of peri-implantitis



Guideline on how to use

- Use it for accurate diagnosis of an area with visible inflammation and bone resorption on X-ray.
- Insert the probe into the oral fissure relieving force (approximately 0.25 N) to prevent tissue from being damaged.
- The degree of peri-implantitis and defect can be determined based on the depth of insertion because the markings in 1mm increments are visible.





Consists of tools for removing granulation tissue and subgingival deposits



3 Curette







3 Curette

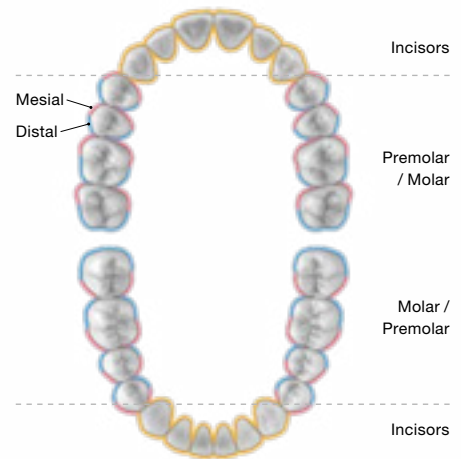
Used for removing granulation tissue and subgingival deposits

Guideline on how to use

- Use it for root planning as well as granulation tissue and tartar removal.
- It is divided into three types that can reach all areas of the oral cavity.
- Gracey 1/2, for all anterior surfaces; Gracey 11/12, for posterior mesial surfaces; and Gracey 13/14, for posterior distal surfaces.



Incisors	Premolars/Molars	
All surfaces	Mesial	Distal
1/2	11/12	13/14
		
		





It consists of tools for polishing as well as for removing debris or foreign substances on the surface of implants, abutments, and crowns



4 Protect screw



5 Smart brush 1



6 Smart brush 2



7 Plastic scaler tip



8 Plastic scaler Connector



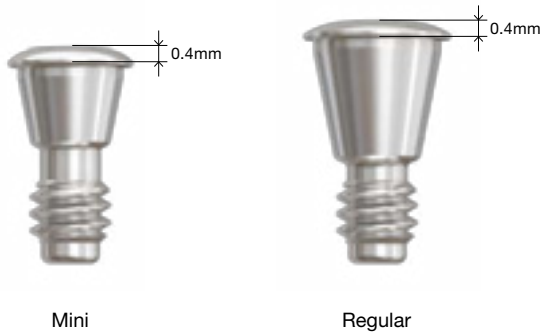
9 Metal scaler

4 Protect screw

Used for internal protection of the implant after removal of the abutment

Guideline on how to use

- Select the protect screw to be used among the mini and regular specifications.
- After connecting it to the protect screw with a 1.2 hex hand driver, connect it to the implant.
- The recommended torque is approximately 5 Ncm.

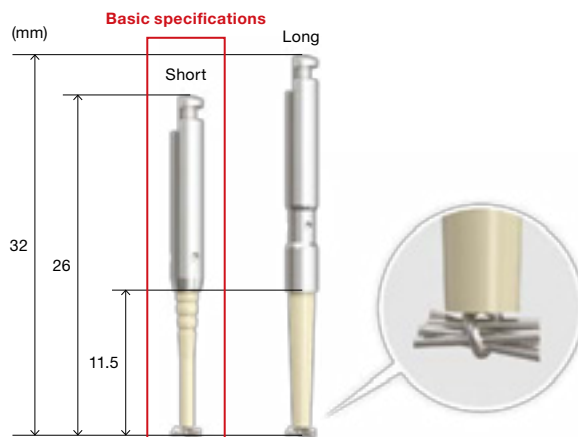


5 Smart brush 1

Smart brush 1 is used to remove the peri-implantitis on the surface of implant and to polish the surface of implant.

Guideline on how to use

- Use at 5-2 wall defects (dehiscence and horizontal bone resorption).
- Connect to a handpiece.
- The recommended speed is 1,200~1,500 rpm.
- 1 minute is required for each thread (do not exceed 4 minutes).
- Be careful of water and suction during the polishing process.
- Reuse is prohibited because it is intended for single use.
- Autoclave is available.



6 Smart brush 2

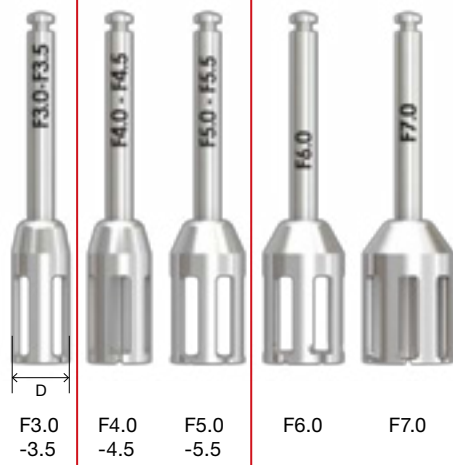
Used for the removal of peri-implantitis on the implant surface and for the polishing of the implant surface

Guideline on how to use

- Use for one wall defect (bone height defect).
- Connect to a handpiece.
- Use at the recommended speed of 1,200–1,500 rpm.
- 1 minute is required for each thread (do not exceed 3 minutes. Excessive use may cause fractures or bending).
- Be careful of water and suction during the polishing process.
- Reuse is prohibited because it is intended for single use.
- Autoclave is available.



Basic specifications

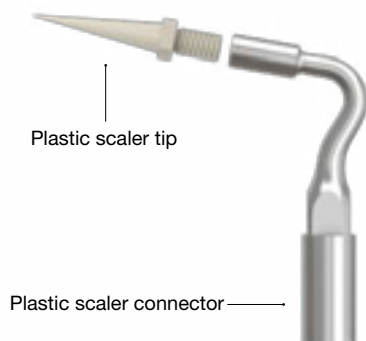


7 Plastic scaler tip

Used for irrigating foreign substances on the abutment and crown surface

Guideline on how to use

- To use, connect to the plastic scaler connector.
- Do not use it on the implant surface.
- Reuse is prohibited because it is intended for single use.
- Autoclave is available.
- 30 ea per set.

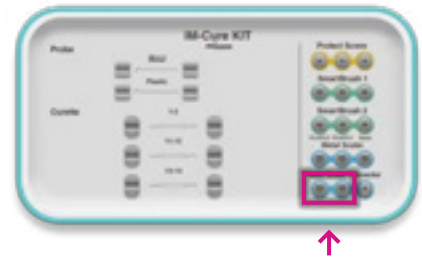


8 Plastic scaler Connector

Plastic scaler connector is used with the plastic scaler tipto remove foreign substance or debris on the abutment and crown surface.

Guideline on how to use

- Compatible with EMS/KaVo/SATELEC.
- Attach it to the plastic scaler tip and use.
- Use with low scaler output.
- Autoclave is available.

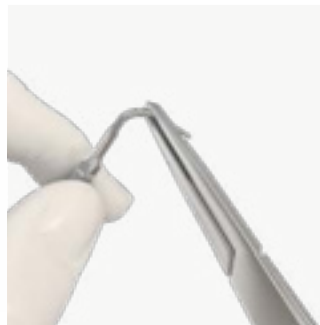
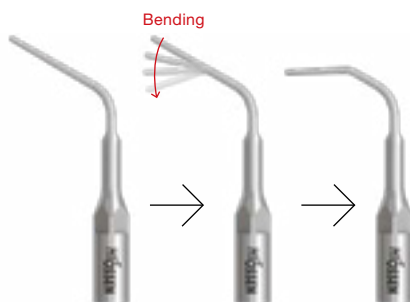


9 Metal scaler

Used for additional fine polishing after removal of foreign substances and polishing of the implant surface with the smart brush

Guideline on how to use

- Compatible with EMS/KaVo/SATELEC.
- For easy access, bend the head of the tip using Kelly.
- Use it with a low scaler output.
- 30 seconds is required per thread.
- Reuse is prohibited because it is intended for single use.
- Autoclave is available.



5 KIT sequence

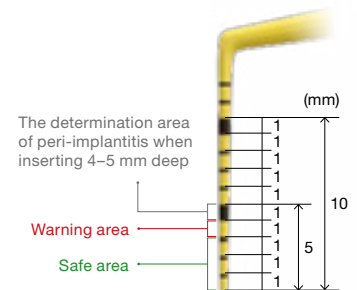
[Removal of mucositis confined to soft tissues around the crown] Use a plastic scaler connector and a plastic scaler tip

N: Tool number



Diagnosis using a probe

- Use the plastic probe.



Prosthetic surface polishing

- Polish the surface of the crown and abutment after connecting the plastic scaler tip to the plastic scaler connector.
- It shall not be used on the surface of implant.

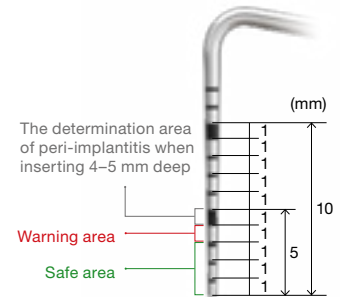
[Removal of peri-implantitis that is caused by horizontal bone resorption] Use the Smart brush 1 and metal scaler

N: Tool number



1 Diagnosis using a probe

· Use the metal probe.

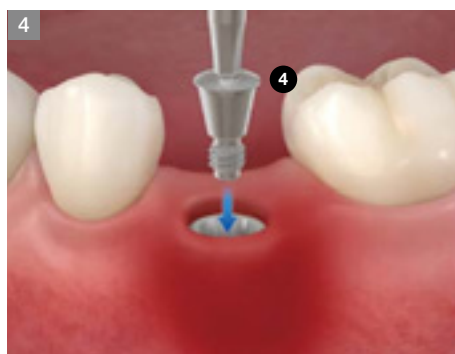


2 Remove prosthesis



3 Remove the abutment

· Remove the abutment using the 1.2 hex hand driver.



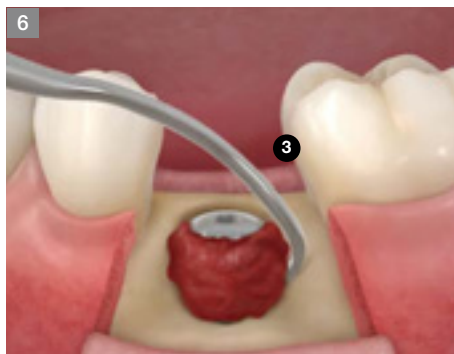
4 Connect the protect screw

· To protect the implant's interior, use the 1.2 hex hand driver to connect the protect screw



Incision and flap lift

- After performing incision with small size, open flap to reveal the protruding implant caused by bone loss.



Removal of inflammation and granulation tissue

- Three types of curettes are used to remove granulation tissue and subgingival inflammation.



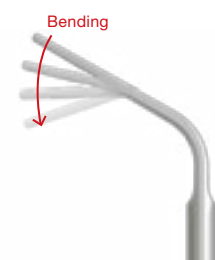
Macro polishing of the implant surface (smart brush 1)

- Be cautious of water and suction during the polishing process.
- The recommended speed is 1,200–1,500 rpm.
- The recommended time of being used is 1 minute per thread.
- * Be noticed not to perform the polishing exceeding 4 minutes and reuse is prohibited as it is for single use.



Fine polishing of the implant surface (metal scaler)

- Improve accessibility by freely bending the tip.
- Use it with a low scaler output.
- The recommended time of being used is 30 seconds per thread.
- Reuse is prohibited because it is intended for single use.





Separate the protect screw

- Separate the protect screw with the 1.2 hex hand driver.



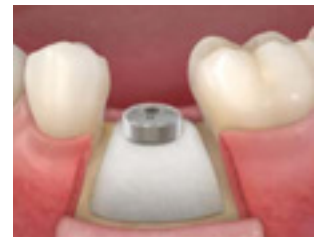
Connect the healing abutment

- Connect the healing abutment with the 1.2 hex hand driver.



Bone graft

- Perform bone grafting at the site of bone loss.
- Apply a membrane if necessary.



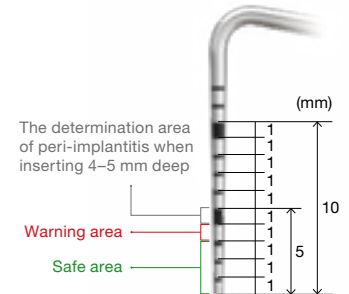
Suture

[Removal of peri-implantitis caused by vertical bone resorption] Use the Smart brush 2 and metal scaler

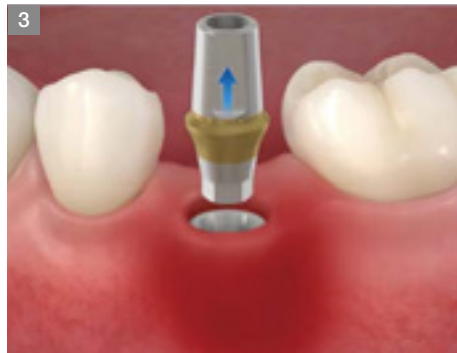


Diagnosis using a probe

- Use the plastic probe.

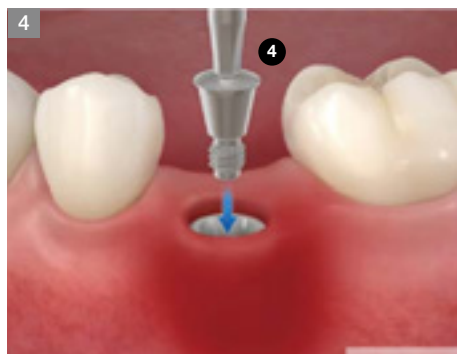


Remove the prosthesis



Remove the abutment

- Remove the abutment with the 1.2 hex hand driver.



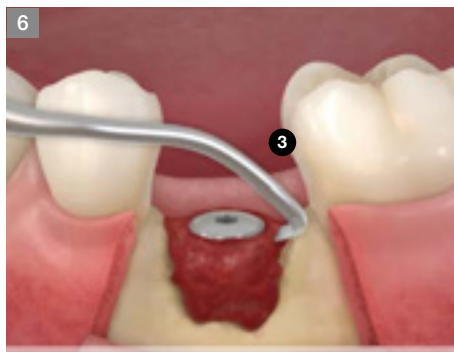
Connect the protect screw

- To protect the implant' inner side, connect the protect screw with the 1.2 hex hand driver.



Incision and flap lift

- After performing incision with small size, open flap to reveal the protruding implant caused by bone loss.



Removal of inflammation and granulation tissue

- Three types of curettes are used to remove granulation tissue and subgingival deposits



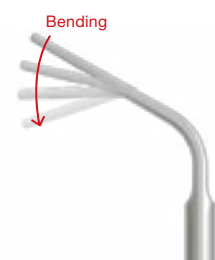
Macro polishing of the implant surface (smart brush 2)

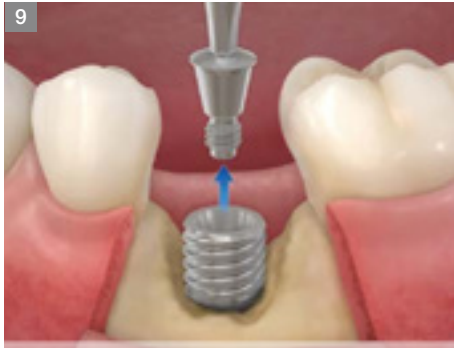
- Be cautious of water and suction during the polishing process.
- The recommended speed is 1,200–1,500 rpm.
- The recommended use time is 1 minute per thread.
- Fractures and bending may occur in case of being used for more than 3 minutes. It is allowed to be used up to 5 times.



Fine polishing of the implant surface (metal scaler)

- Improve accessibility by freely bending the tip.
- Use it with a low scaler output.
- The recommended time of being used is 30 seconds per thread.
- Reuse is prohibited because it is intended for single use.





Separate the protect screw

- Separate the protect screw using the 1.2 hex hand driver.



Attach the cover screw

- Connect the cover screw with the 1.2 hex hand driver.



Bone graft

- Perform bone grafting at the site of bone loss.



Apply the membrane



Suture

How to take care of the KITS

1



Soak (saline/distilled water)

- Soak the surgical instruments in saline or distilled water

2



Drying (remove moisture)

- Completely dry all drills, drivers, tools, etc by using a towel or fan.

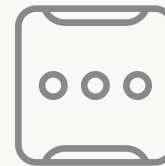
3



First wash

- After surgery, immediately separate and wash all the used instruments.

4



Organize instruments in the KIT

- Place the completely dried instruments in the KIT
- Make sure they are properly placed in the correct location
- Refer to the color coding for reference

5



Second wash

- Thoroughly wash with distilled water or running water to avoid remnants of blood or foreign debris.

6



Sterilization and storage at room temperature

- Wrap clean kit in a sterilization wrap or pouch and place into sterilizer.
- Sterilize temperature - 121°C to 132°C, time duration 15 - 30 minutes, dried and stored at room temperature.
- KIT re-sterilization is recommended immediately before surgery.
- Before and after sterilization, thoroughly dry (the drills will corrode if not fully dried after sterilization)

Important Information and Legal Notices 2026.03 ver.1.1

1. IMPORTANT NOTICE

This catalogue is intended solely as an informational and educational guide for trained dental professionals. It does not replace the applicable Instructions for Use (IFU), product labelling, formal clinical training, treatment planning, or independent professional judgment.

All clinical protocols, drilling sequences, cleaning instructions, sterilization requirements, torque recommendations, indications, contraindications, warnings, and procedural steps must be verified against the current product-specific IFU and the applicable product label for the relevant REF/product code prior to use.

In the event of any discrepancy between this catalogue and the applicable IFU, product labelling, or other official Osstem documentation, the IFU, labelling, and official product documentation shall prevail.

2. PRODUCT INFORMATION, CHANGES, AND AVAILABILITY

All products, specifications, protocols, recommendations, illustrations, and other information contained in this catalogue are subject to change without prior notice.

Not all products may be approved, cleared, released, licensed, or otherwise available in all markets. Product availability, indications, and regulatory status may vary by country. For information on the current product portfolio, approved indications, and local availability, please contact your local Osstem representative or Customer Service and consult the current official Osstem documentation.

3. PROFESSIONAL USE ONLY

Osstem Implant products are intended for use by appropriately trained dental professionals only. Dental implant treatment involves complex professional procedures and requires appropriate education, clinical training, patient selection, treatment planning, and radiographic as well as clinical evaluation.

The suitability of any procedure must be assessed individually for each patient, taking into account anatomy, bone quality and quantity, occlusion, systemic conditions, oral hygiene, compliance, and any other relevant clinical factors.

4. PRODUCT DESCRIPTION AND COMPATIBILITY

Osstem Implant offers implant fixtures, prosthetic components, surgical instruments, and related materials for dental implant treatment. Product codes, specifications, lot numbers, dates of manufacture, and expiration dates, where applicable, must be checked on the product label before use.

Unless expressly stated otherwise in the applicable product documentation, Osstem Implant abutments, prosthetic components, instruments, and related accessories are intended to be used only with compatible Osstem Implant fixtures and components. Use in combination with components or instruments from other manufacturers may result in improper fit, incomplete locking, loosening, fracture, reduced performance, or other clinical complications.

5. STERILITY, CLEANING, REPROCESSING, AND STORAGE

Sterile products supplied in sterile packaging must be used only if the packaging is intact and the expiration date has not passed. If sterile packaging has been opened, damaged, or has expired, the product must not be used.

Single-use products must not be reused, reprocessed, or resterilized.

Reusable instruments must be cleaned, disinfected, inspected, maintained, and sterilized strictly in accordance with the applicable Osstem IFU before reuse.

Products must be stored in accordance with the applicable labelled

storage conditions and protected from moisture, contamination, direct sunlight, and other adverse environmental conditions.

6. CLINICAL PROTOCOLS AND PROCEDURAL GUIDANCE

Any surgical, prosthetic, drilling, insertion, loading, cleaning, maintenance, or other procedural guidance shown in this catalogue is provided for general informational purposes only and must be adapted to the individual patient, the specific product, and the current approved IFU.

Clinicians remain solely responsible for selecting the appropriate treatment protocol and for determining whether the intended procedure, component selection, loading protocol, and clinical application are appropriate for the individual case and within the approved indications for the relevant product.

7. WARNINGS, CONTRAINDICATIONS, AND POSSIBLE COMPLICATIONS

Improper patient selection, inadequate treatment planning, non-compliance with the applicable IFU, improper use, off-label use, product modification, poor oral hygiene, infection, insufficient bone quality or quantity, excessive occlusal loading, or other unfavorable clinical conditions may result in complications or treatment failure.

Possible complications and adverse events may include, without limitation, implant instability or failure, loosening, fracture, bone loss, infection, soft- or hard-tissue complications, prosthetic complications, delayed healing, or the need for revision or removal.

Contraindications and precautions must always be assessed in accordance with the applicable Osstem product documentation and accepted professional standards of care.

8. INTENDED PURPOSE

The products are tools and instruments for surgical placement of Osstem implant fixtures. The drill is used to make implant sites. The cortical drill and tap removes cortical bones or forms threads on bone for the purpose of preventing excessive torque generated when implanting a fixture on hard bone. The drivers are for the placement of the fixture, and the prosthesis is used for setting. In addition, other instruments and tools will be used as aids in the implant procedure.

The applicable product-specific IFU must always be consulted to confirm the intended purpose, indications, limitations, and approved clinical applications of the relevant product.

9. ACCURACY OF INFORMATION

Although reasonable care has been taken in preparing this catalogue, typographical, editorial, translation, printing, and formatting errors may occur. Information may also become outdated as a result of product updates, regulatory changes, technical revisions, or clinical developments.

No representation is made that this catalogue is complete, current, or error-free in every respect. Users must verify all critical information against the current IFU, product labels, and other official Osstem documentation before clinical use.

10. ILLUSTRATIONS AND EXAMPLES

Product illustrations, diagrams, radiographic examples, case images, and step-by-step demonstrations are for illustrative purposes only. Unless expressly stated otherwise, they are not shown to scale and do not guarantee any clinical outcome.

Example cases do not constitute a promise or representation of treatment success in any individual case.

11. TRADEMARKS AND COMPANY NAMES

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