

**OSSTEM<sup>®</sup>**  
IMPLANT

# Surgical Manual

**GBR** 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](http://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

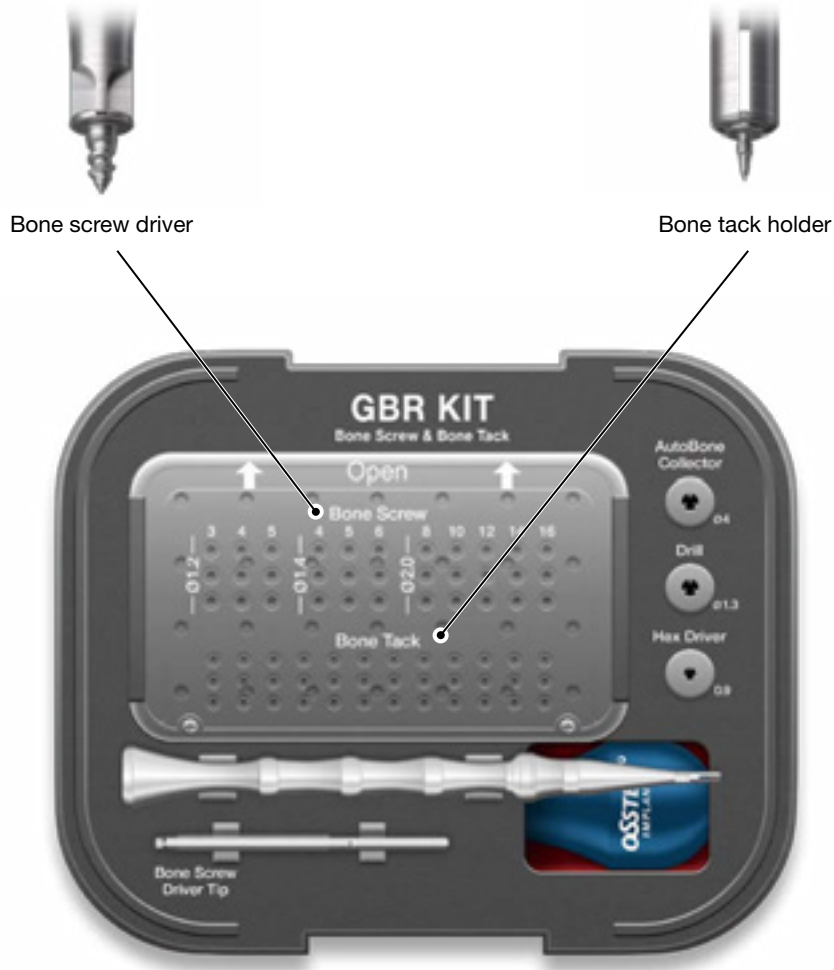
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**Publisher:** Osstem Europe s.r.o.  
Radlická 740/113c  
158 00 Prague, Czech Republic

**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.*

# GBR KIT

**KIT used to collect tools that can fix shielding membrane, fix block bone, and collect autogenous bone.**



**Bone tack method**



Anchor bone tack using a mallet

**Bone screw method**



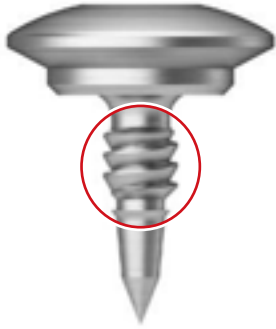
Anchor bone screw using driver

# 1 Indication

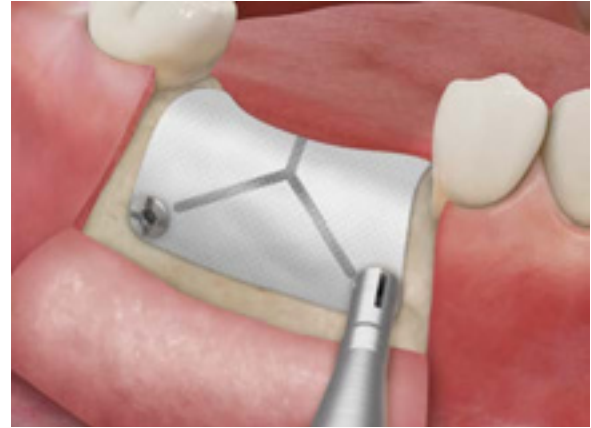
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## A When anchoring the membrane

- Mainly used for fixing non-absorbent/absorbent sheet type membrane.

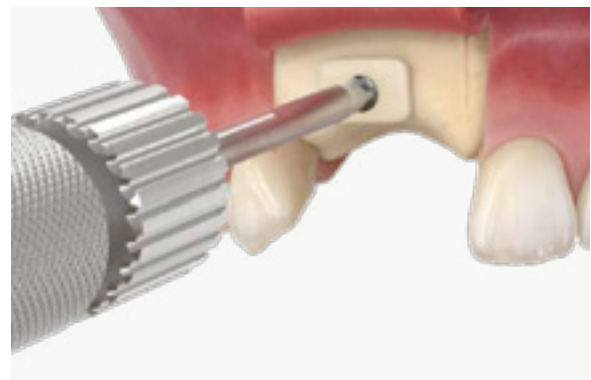
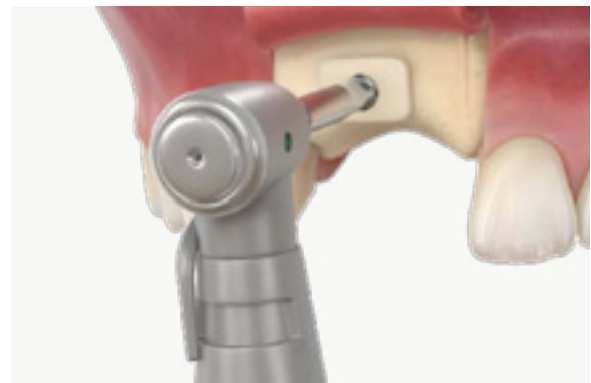


Reverse thread design improves access.



## B When anchoring block bone

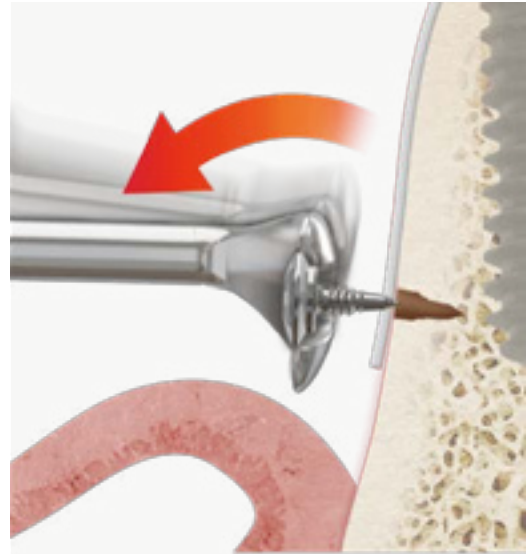
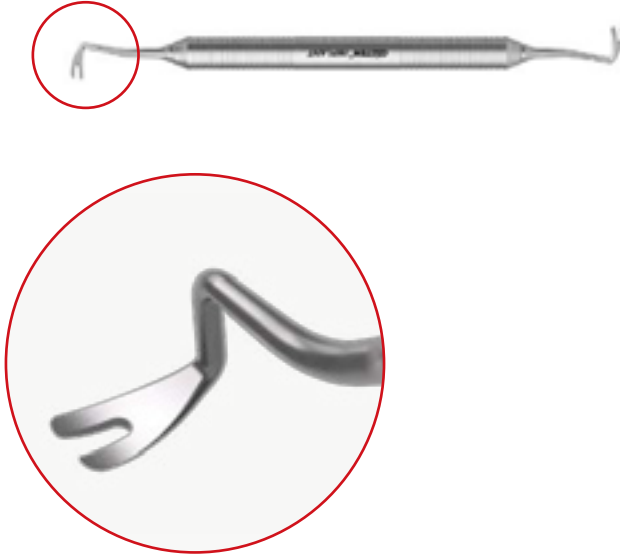
- Use to fix block bones.



## 2 Feature

### A Easy-to-remove lever design

- Design bent at various angles for excellent accessibility



### B Holder that helps stable placement

- Easy-to-grip design allows precise entry into the planned location during malleting.
- One-piece body for stable force transmission during malleting





Before bone tack assembly


After bone tack assembly

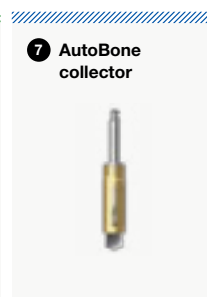
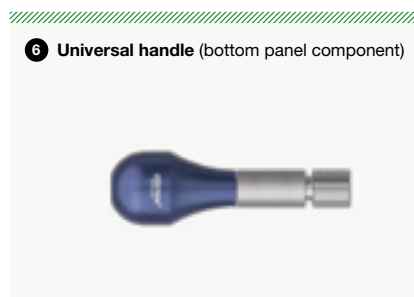
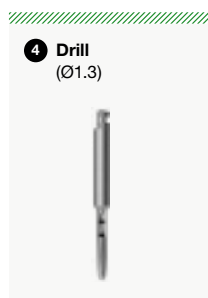
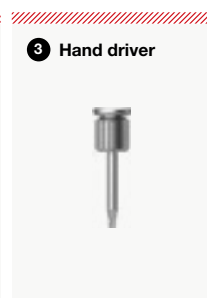
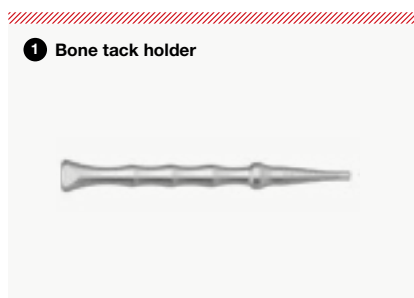
### 3 KIT (included components)

#### GBR KIT

 Bone tack tool  
(1~3)

 Bone screw tool  
(4~6)

 Autogenous bone collection tool  
(7)



## 4 KIT user instructions

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Includes a tool for fixing and removing bone tack, a screw for fixing non-absorbent and absorbent sheet type membrane.



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1 Bone tack holder



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2 Bone tack ejector



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3 Hand driver

## 1 Bone tack holder

Tool used to anchor the bone tack.

### User instructions

- Vertically fasten the bone tack to the bone tack holder.
- Anchor the bone tack fastened to the bone tack holder by malleting at the anchoring position of the shielding membrane.

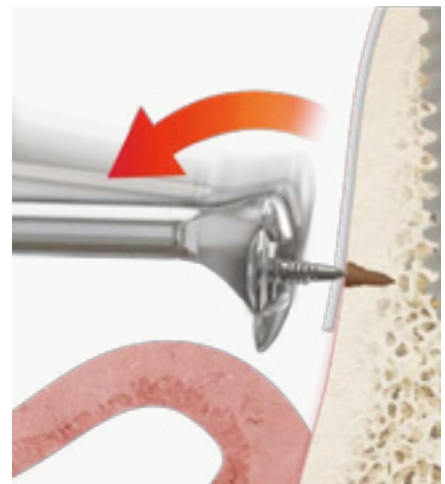
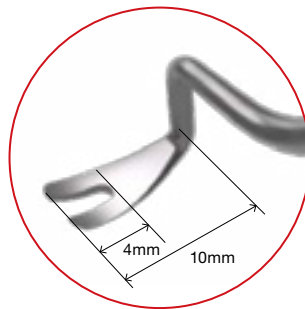
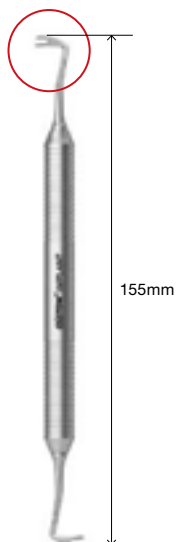


## 2 Bone tack ejector

Tool used to remove bone tack.

### User instructions

- Remove the bone tack ejector by hooking it to the bone tack.
- If it is difficult to enter the ejector because it is covered with bone tack, it is recommended to use the ejector after lifting the bone tack by reverse rotation with a 0.9 hex driver.

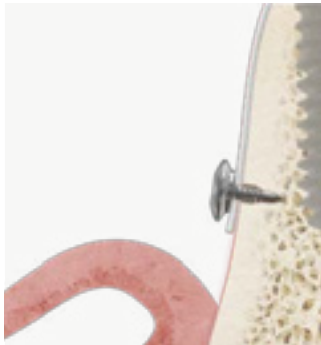


### 3 Hand driver

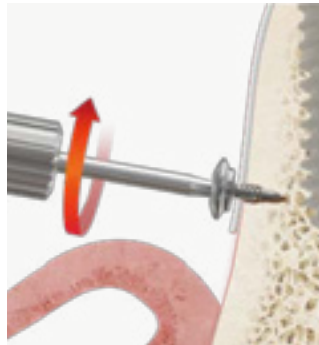
Tool used to remove bone tack.

#### User instructions

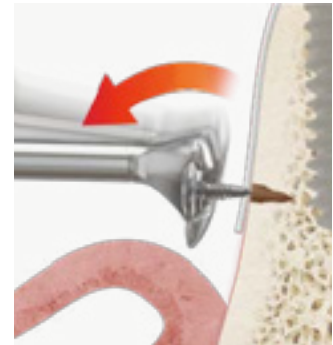
- 0.9 hex / long (18mm) available.
- When removing the bone tack, rotate the bone tack counterclockwise with a hand driver and use the bone tack ejector.



Cannot use bone tack ejector



Rotate counterclockwise using a 0.9 hex hand driver to secure space



Use bone tack ejector



Includes a non-absorbable membrane, OssBuilder, and a tool for installing the bone screw, which is a screw to fix block bone.



4 Drill

5 Bone screw driver tip

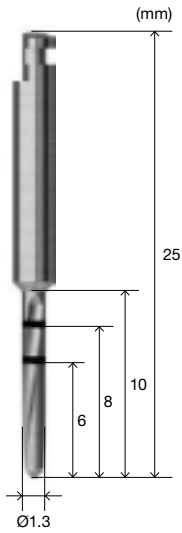
6 Universal handle

## 4 Drill

Tool for drilling when using a  $\text{Ø}2.0$  diameter bone screw.

### User instructions

- Use with a  $\text{Ø}2.0$  bone screw.
- Set RPM to 800 rpm.

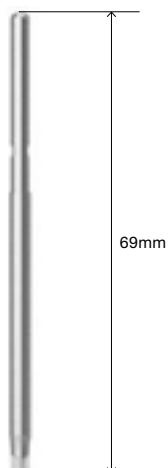


## 5 Bone screw driver tip

Assemble to the universal handle and use when inserting the correction screw by hand.

### User instructions

- Use in combination with a universal handle.
- Use after fully tightening the bone screw vertically.

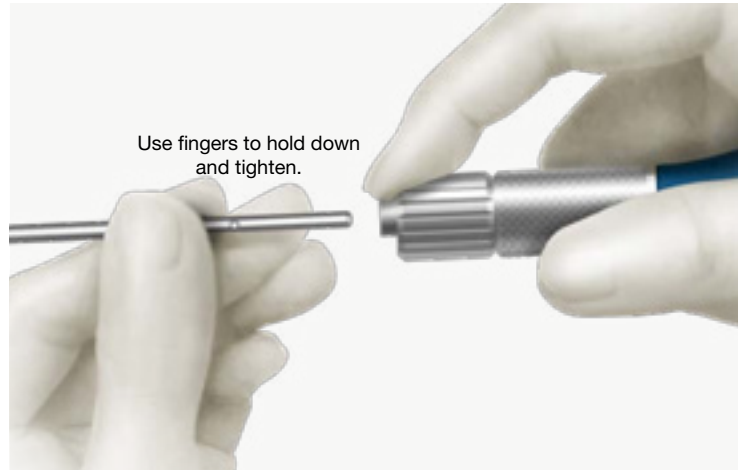


## 6 Universal handle

Assemble to the bone screw driver tip and use when inserting the correction screw by hand.

### User instructions

- Use in combination with the bone screw driver tip (handle).
- Use fingers to hold down and tighten.





Includes a tool for collecting cortical bone.



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7 Autobone collector

## 7 Autobone collector

Tool used for autogenous bone collection

### User instructions

- Harvest up to a maximum vertical length of 4mm.
- $\varnothing 4.0$  / long specification available as standard ( $\varnothing 3.0$ , 5.0, 6.0 sold separately).
- Set RPM to 300-600rpm.

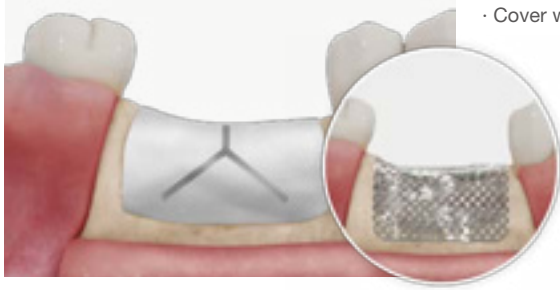


## 5 KIT sequence

### Anchor shielding film when using the bone tack method

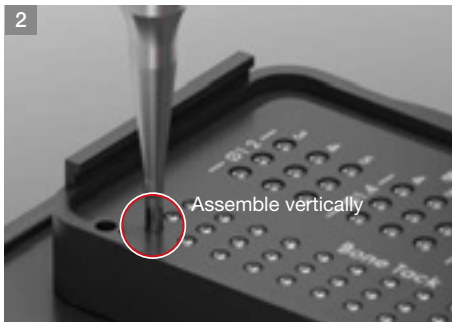
**N**: Tool number

1



#### Perform GBR inside the mouth

- Cover with a shielding film after installing the Implant



#### Assemble bone tack

- Vertically fasten the bone tack to the bone tack holder.



Before bone tack assembly



After bone tack assembly



Bone tack holder



#### Anchor the shield

- Anchor bone tack by malleting in the location where the shielding membrane is anchored.



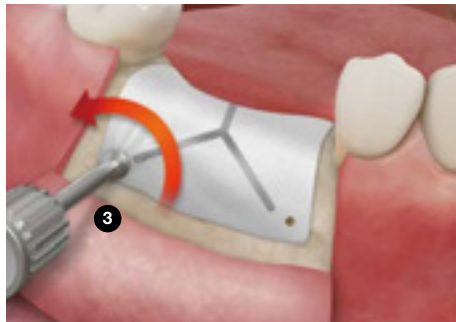
#### Suture

- Suture so that soft tissue is not exposed to strong tension.
- \* In some cases, suture after releasing incision.



#### Remove bone tack

- Remove bone tack with bone tack ejector after healing.



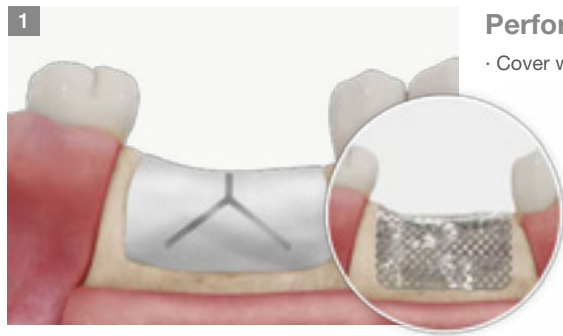
· If the bone tack ejector cannot be inserted, remove the bone tack with a 0.9 hex hand driver.



**Removal complete**

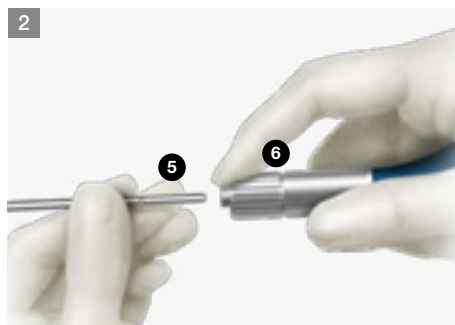
## Anchor shielding film when using the bone screw method

**N**: Tool number



### 1 Perform GBR inside the mouth

· Cover with a shielding film after installing the Implant



### 2 Assemble bone screw driver tip

· Vertically fasten the bone screw driver tip to the universal handle.



Universal Handle



### 3 Assemble bone screw

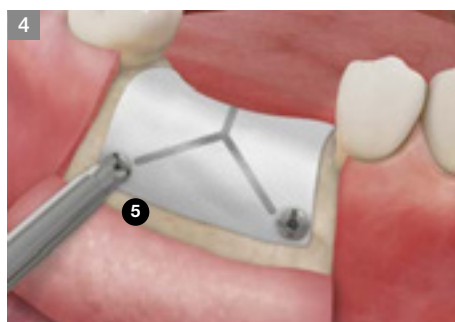
· Use after fully tightening the bone screw vertically.



Before bone screw assembly



After bone screw assembly



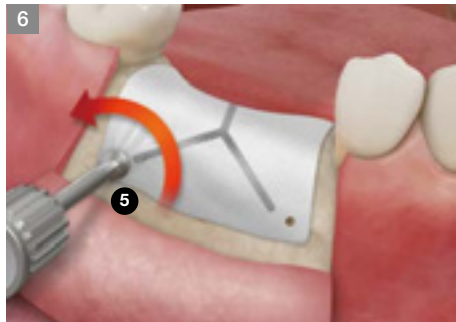
### 4 Anchor the shield

· Anchor the shield by rotating the bone screw driver tip forward.



### 5 Suture

· Suture so that soft tissue is not exposed to strong tension  
\* In some cases, suture after releasing incision.



### Remove bone screw

- Once the wound heals, reverse the bone screw driver tip to remove the bone screw.



### Removal complete

- Remove the shield.

## Anchor the block bone

**N**: Tool number



### Prepare treatment site

- Check and measure bony defect.



### Collect block bone from the donor site

- Block bone is collected as needed from the donor in the oral cavity and the shape is refined.



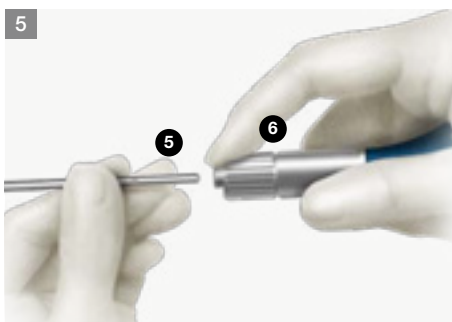
### Bone perforation

- Perforate bone to provide sufficient blood supply by making a perforation in the cortical bone of the recipient site.



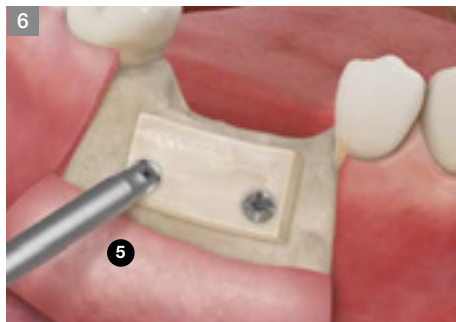
### Create drill hole for anchoring

- Create a hole for anchoring the bone screw in the block bone.



### Assemble bone screw driver tip

- Vertically fasten the bone screw driver tip to the universal handle.



### Anchor the block bone

- Anchor the block bone to the recipient site using a bone screw.
- Anchor bone screw using universal handle.



### Bone graft

- In some cases, additional bone grafts or shields may be required.



### Suture

- Suture so that soft tissue is not exposed to strong tension.
- \* In some cases, suture after releasing incision.

# 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.

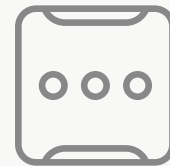
3



## 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.

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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.

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## 10. ILLUSTRATIONS AND EXAMPLES

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

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# Important Contact Information



## International HQ

Osstem Implant Co., Ltd.  
3, Magokjungang 12-ro, Gangseo-gu  
Seoul 07801, Republic of Korea

☎ +82-2-2016-7000

☎ +82-2-2016-7001

🌐 [www.osstem.com](http://www.osstem.com)



## European HQ

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

☎ +420-296-238-800

✉ [info@osstem.eu](mailto:info@osstem.eu)

🌐 [www.osstem.eu](http://www.osstem.eu)



## Hiossen HQ

Hiossen Implant Inc.  
85 Ben Fairless Drive, Fairless Hills  
PA 19030, USA

☎ +1-888-678-0001

✉ [master@hiossen.com](mailto:master@hiossen.com)

🌐 [www.hiossen.com](http://www.hiossen.com)



## Osstem Pharma HQ

Osstem Pharma Co., Ltd.  
123, Gasan digital 2-ro, Geumcheon-gu  
Seoul 08505, Republic of Korea

☎ +82-70-5118-0330

☎ +82-70-4369-1930

🌐 [www.osstempharma.com](http://www.osstempharma.com)



## Osstem Orthodontic HQ

OSSTEM Orthodontics Inc.  
13, Ojeongongeop-gil, Uiwang-si  
Gyeonggi-do 16072, Republic of Korea

☎ +82-31-477-9902

☎ +82-31-477-9904

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