

OSSTEM[®]
IMPLANT

Surgical Manual

LAS 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

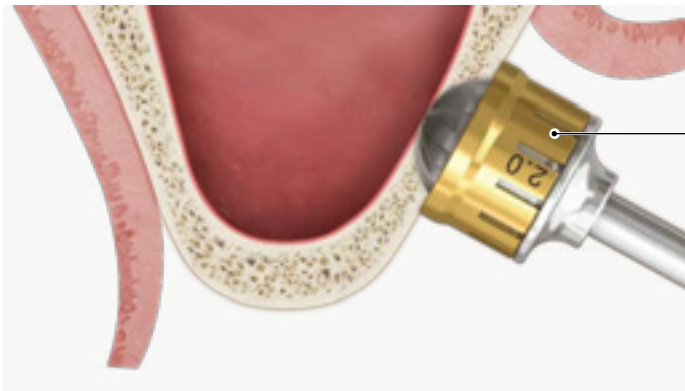
Publisher: Osstem Europe s.r.o.
Radlická 740/113c
158 00 Prague, Czech Republic

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.*

LAS KIT

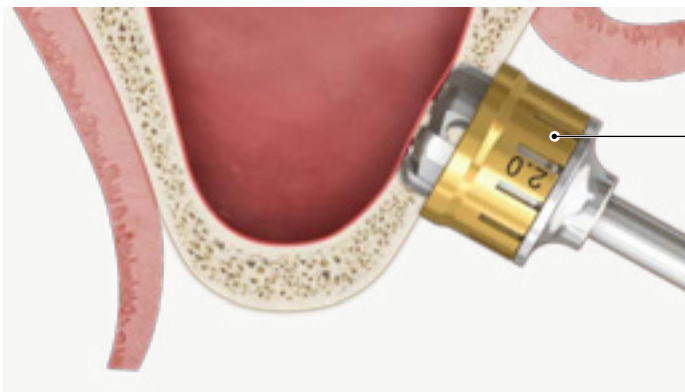
Lateral approach sinus KIT used to safely raise the sinus membrane without perforation

- Create window using a dome drill

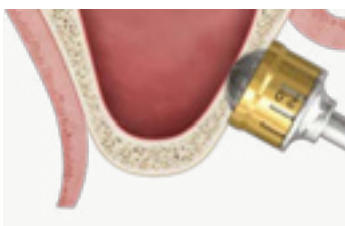


Dome drill

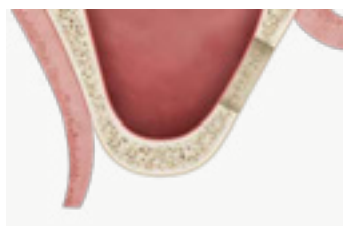
- Create window using a core drill



Core drill



Create lateral window



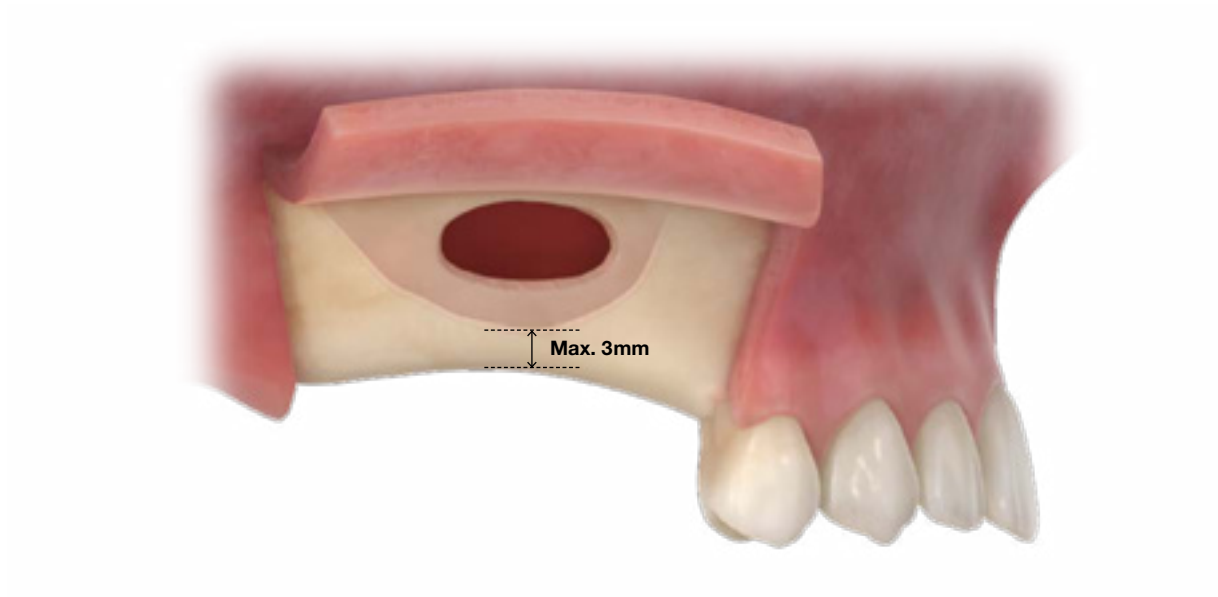
Expand window



Fill bone

1 Indication

A When the height of residual bone mass is max. 3mm



B When membrane perforation occurs due to the presence of septum during osteotomy procedure and treatment is required



2 Feature

A Prevents damage to the membrane and safely creates a window (dome drill)



If the treatment space is not secured, use it at an angle.

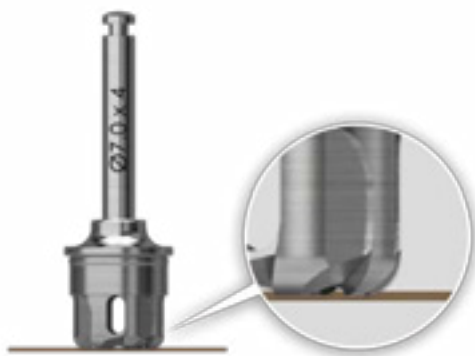


Create bone chip

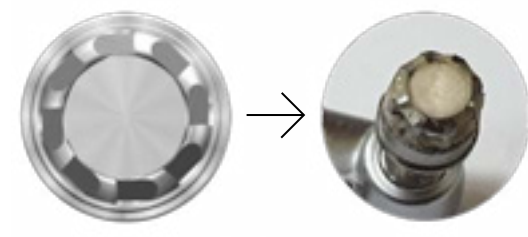
Smooth cutting and minimal unseating

Bone chips can be created between the cutting blades

B Prevents membrane damage by creating a bone lid (core drill)



Round shape



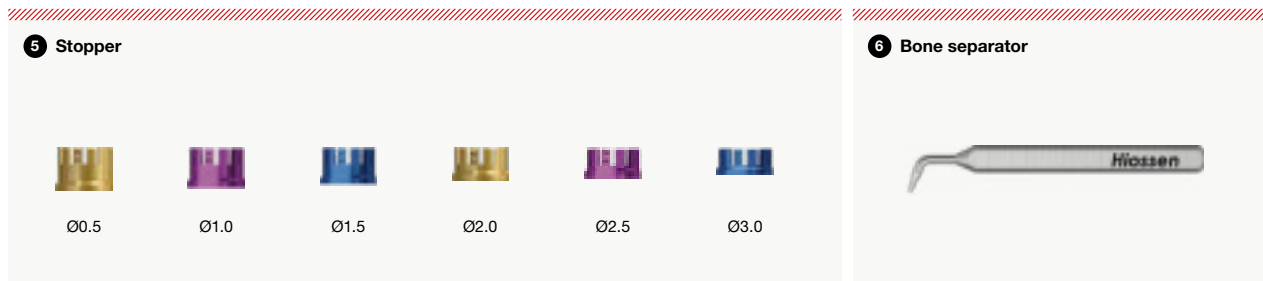
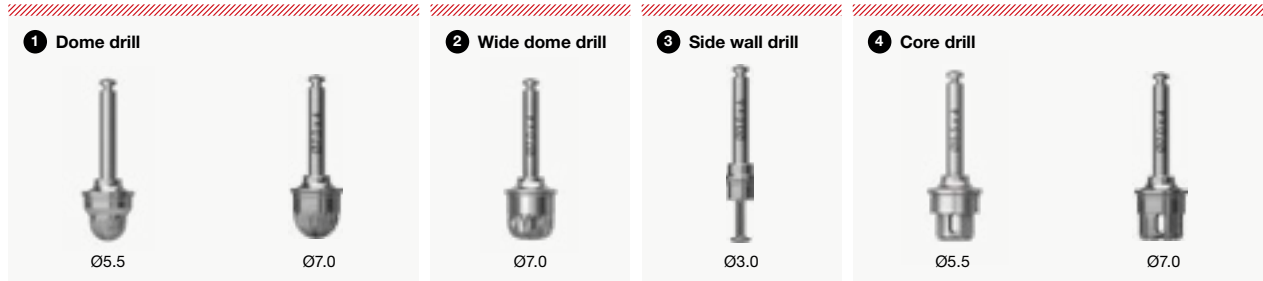
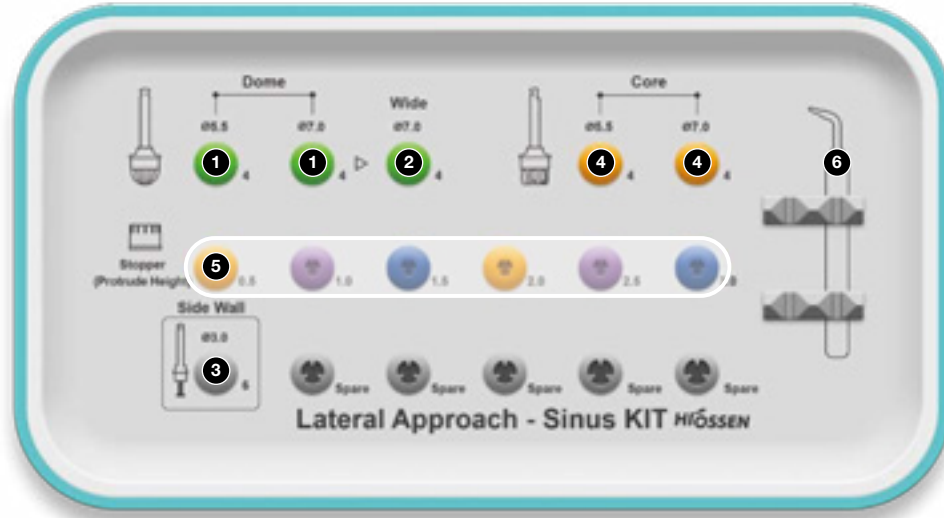
Create bone lid

Safely create bone lid with CAS drill design concept.

3 KIT (included components)

LAS KIT

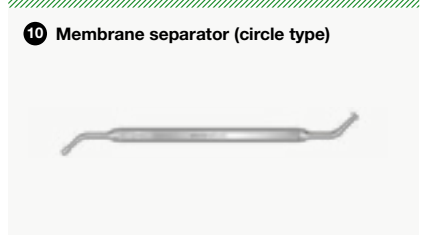
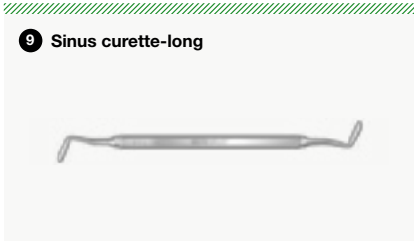
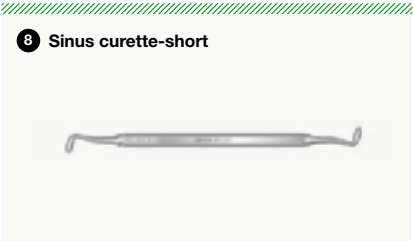
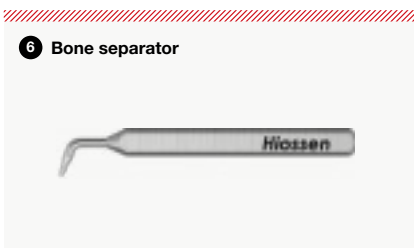
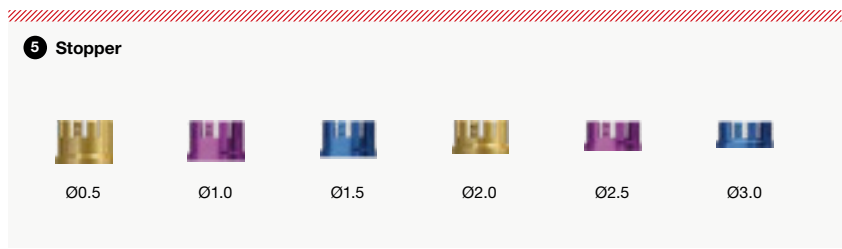
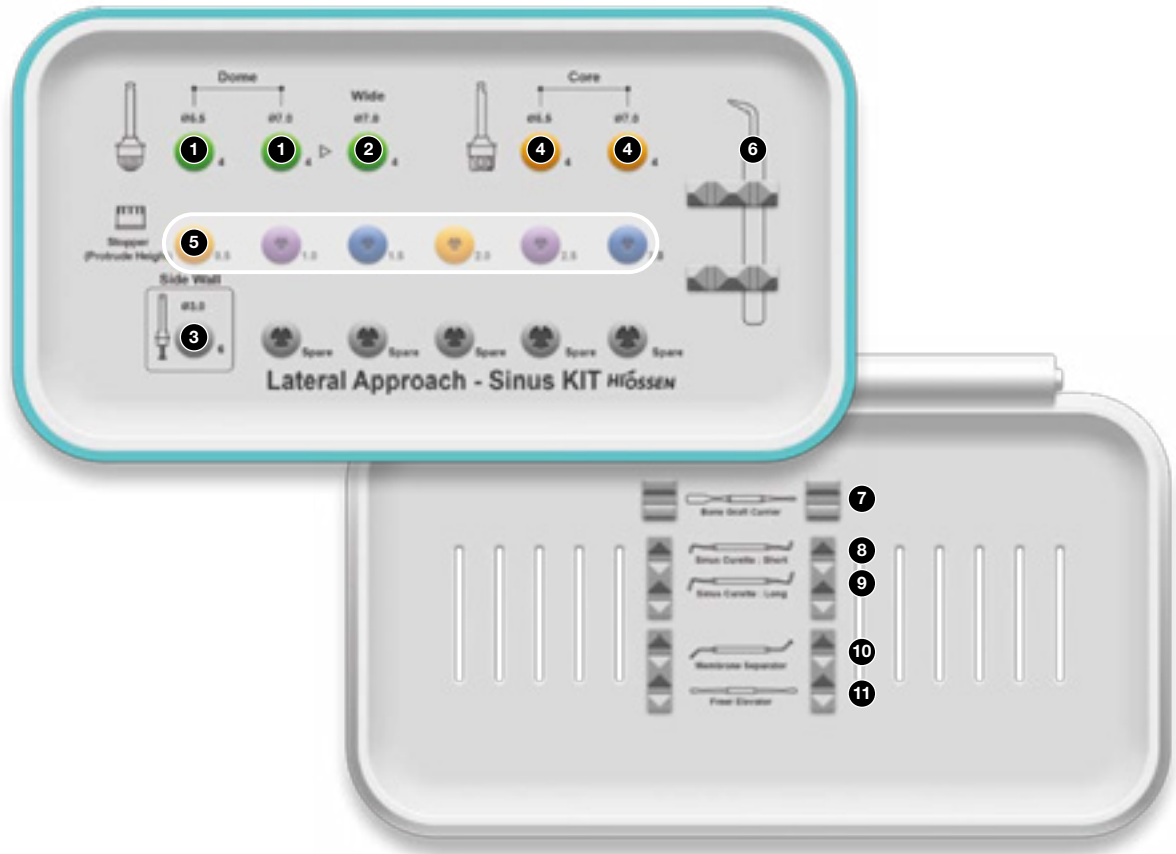
▨ Lateral window creating tool (1-6)



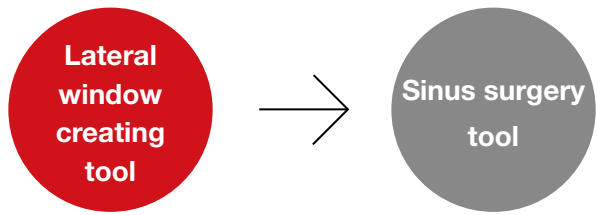
LAS full KIT

▨ Lateral window creating tool (1-6)

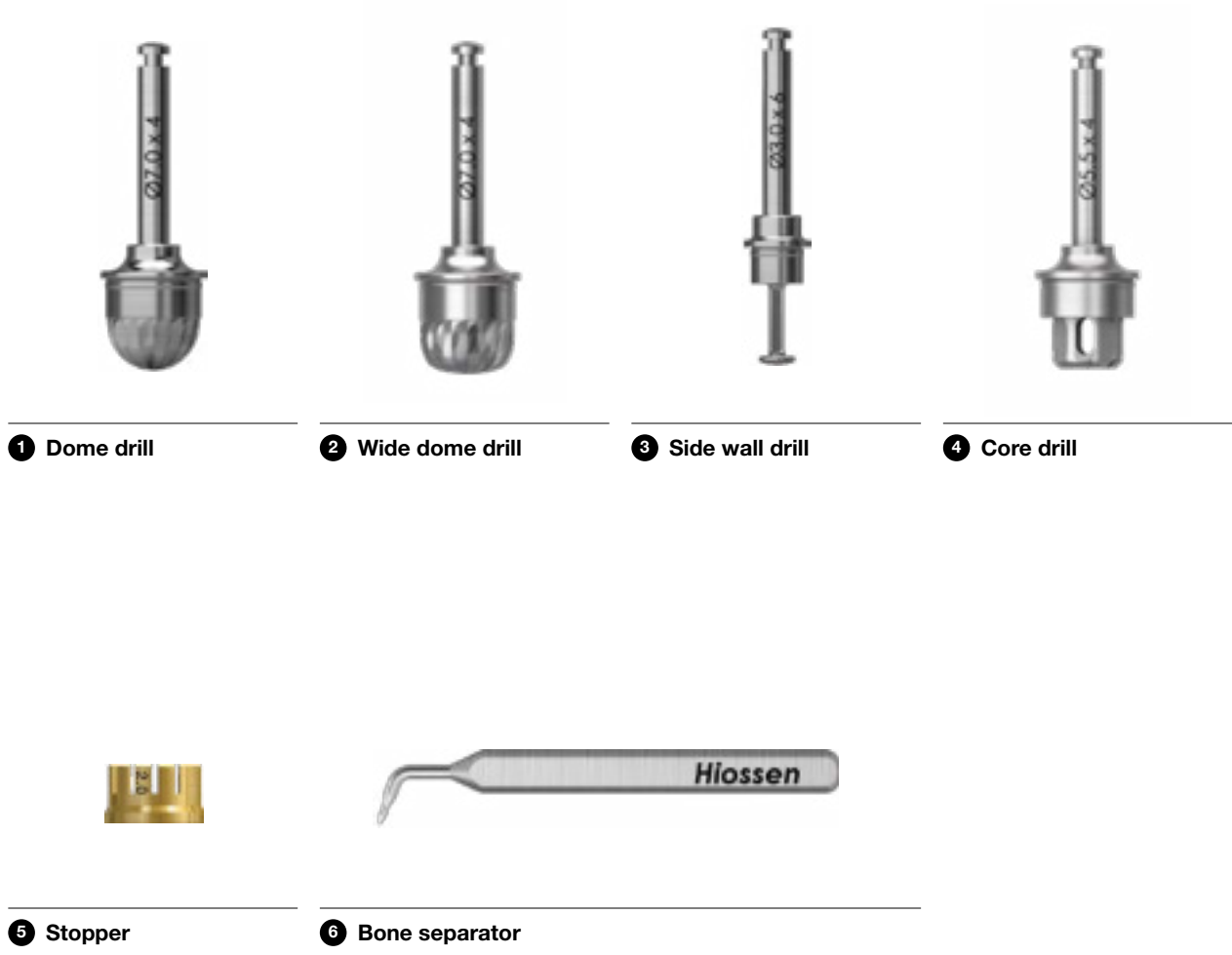
▨ Sinus surgery tool (7-11)



4 KIT user instructions



Includes a drill that forms a window easily and quickly without damaging the membrane.

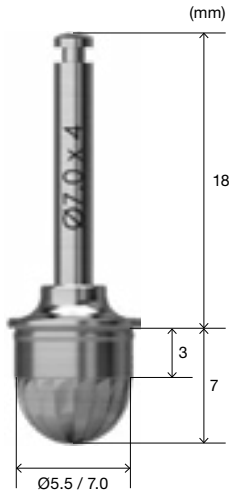
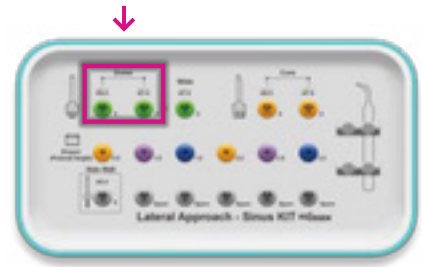


1 Dome drill

Drill that creates a window while collecting a part of own bone

User instructions

- Set drilling RPM at 1,200~1,500rpm.
- Adjust the depth by fastening the stopper.
- Drill the site (excessive over-drilling causes damage to the membrane).

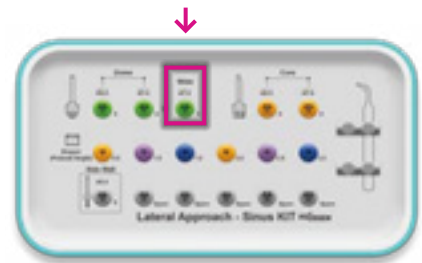


2 Wide dome drill

Drill used to expand the side of the window after creating the window.

User instructions

- Set drilling RPM at 1,200~1,500rpm.
- Assemble the stopper before drilling.
- Expand the side while deleting the bone.

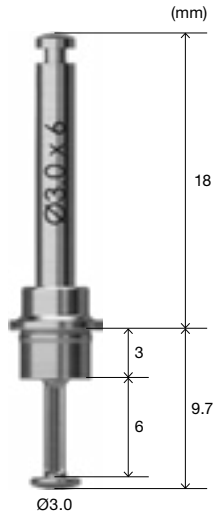
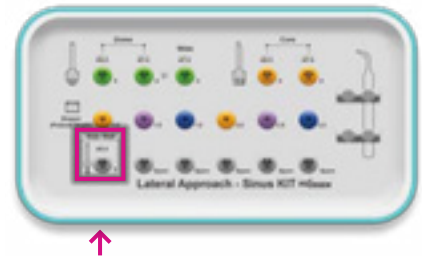


3 Side wall drill

Tool that expands the window after dome drilling.

User instructions

- Set drilling RPM at 1,500rpm.
- Adjust the depth by fastening the stopper (the depth can be adjusted by using the CAS KIT stopper in common).
- Drilling (requires cutting at the position 1mm above the bottom of the drill blade).

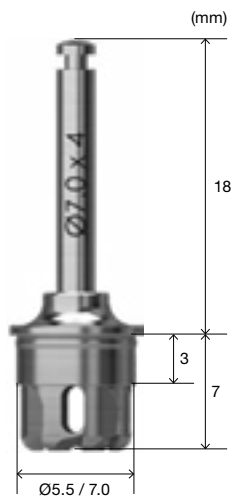
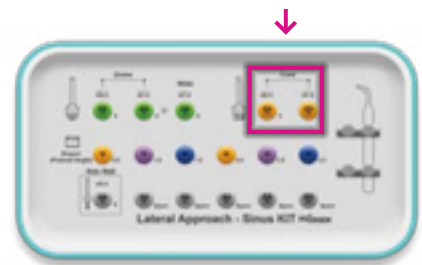


4 Core drill

Drill that creates a window while creating a bone lid

User instructions

- Set drilling RPM at 1,200~1,500rpm.
- Adjust the depth by fastening the stopper.
- Drill the site (excessive over-drilling causes damage to the membrane).

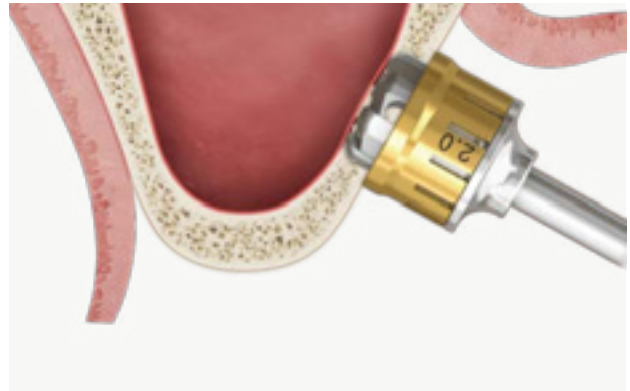
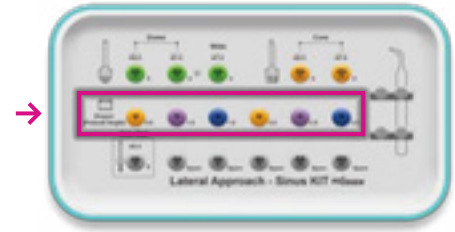


5 Stopper

Tool to control drilling depth for safe membrane lifting.

User instructions

- The number on the stopper refers to the length of the tip protruding when fastened to the drill or tool.
- Assemble the desired stopper to the drill (color-coded for each road).
- Drills and stoppers can be used 50 times.

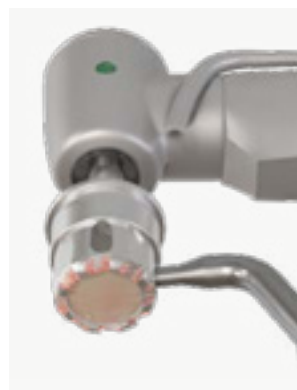


6 Bone separator

Tool to remove the bone lid attached to the core drill.

User instructions

- If the bone lid enters the core drill, use a bone separator to separate it.



Lateral window creating tool



Sinus surgery tool

- For the description of the Sinus treatment tool, refer to the sinus kit [▶ Sinus KIT p.572](#)
- The LAS full kit is a kit consisting of 5 types of sinus treatment instruments added to the LAS kit.



7 Bone graft carrier



8 Sinus curette-short



9 Sinus curette-long



10 Membrane separator (circle type)



11 Freer elevator

5 KIT sequence

[Drilling sequence] Using a Dome drill | Alveolar bone width 2mm



Check alveolar bone width (X-ray)

- CBCT analysis revealed a bone width of approximately 2 mm.



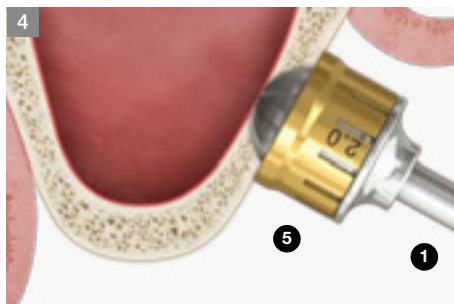
Drilling: dome drill / 1mm stopper

- Assemble a 1mm stopper to the dome drill, then drill.
- Recommended RPM: 1,200~1,500rpm
- * The number on the stopper means the height of the drill exposed after fastening.



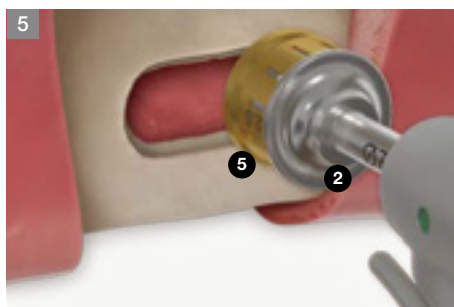
Drilling: dome drill / 1.5mm stopper

- Assemble a 1.5mm stopper to the dome drill, then drill.
- Recommended RPM: 1,200~1,500rpm
- * The number on the stopper means the height of the drill exposed after fastening.



Drilling: dome drill / 2mm stopper

- Assemble a 2mm stopper to the dome drill, then drill.
- Recommended RPM: 1,200~1,500rpm
- * The number on the stopper means the height of the drill exposed after fastening.
- * Leaves no bone lid

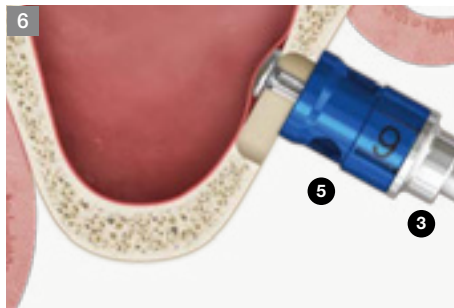


Drilling: wide dome drill / 2mm stopper

- After fastening the 2mm stopper to the wide dome drill, expand the window.
- Recommended RPM: 1,200~1,500rpm
- * The number on the stopper means the height of the drill exposed after fastening.



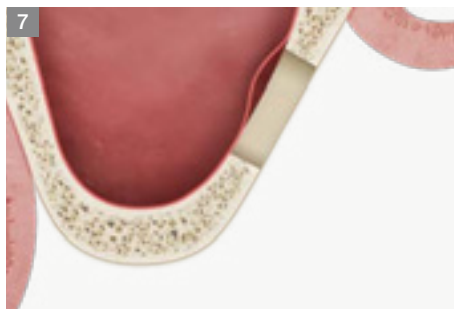
N: Tool number



Drilling: side wall drill / CAS 9mm stopper

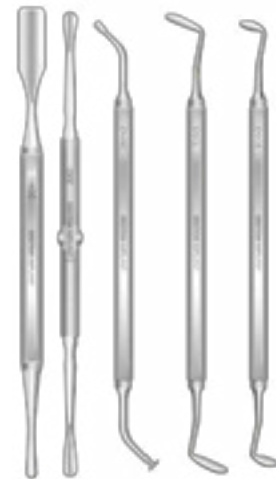
- After fastening the CAS 9mm stopper to the side wall drill, arrange the bone at the edge.
- Recommended RPM: 1,200~1,500rpm
- * Use with CAS KIT stopper

CAS KIT stopper	Side wall drill Height (H)
8	1mm
9	2mm
10	3mm
11	4mm
12	5mm



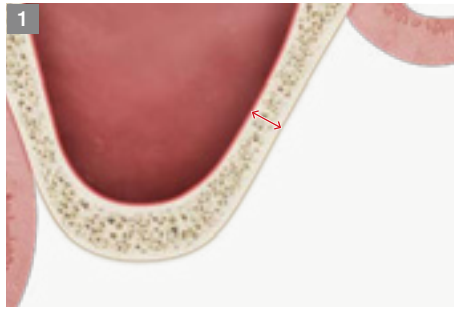
Window creating complete

- After the sinus membrane is lifted using Sinus KIT, the Implant is placed according to the sequence, or the Implant is placed later after bone grafting.
- * Sinus KIT: LAS KIT bottom panel components



Sinus KIT

[Drilling sequence] Using a Core drill| Alveolar bone width 2mm



Check alveolar bone width (X-ray)

- CBCT analysis revealed a bone width of approximately 2 mm.



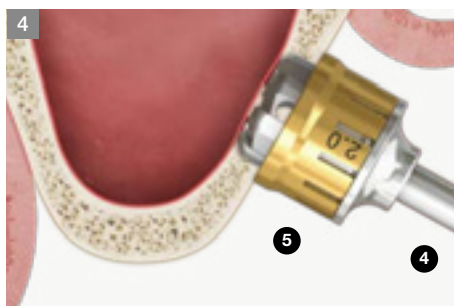
Drilling: Core drill / 1mm stopper

- Assemble a 1mm stopper to the core drill, then drill.
- Recommended RPM: 1,200~1,500rpm
- * The number on the stopper means the height of the drill exposed after fastening.



Drilling: Core drill / 1.5mm stopper

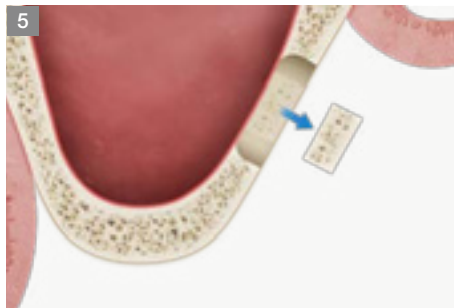
- Assemble a 1.5mm stopper to the core drill, then drill.
- Recommended RPM: 1,200~1,500rpm
- * The number on the stopper means the height of the drill exposed after fastening.



Drilling: Core drill / 2mm stopper

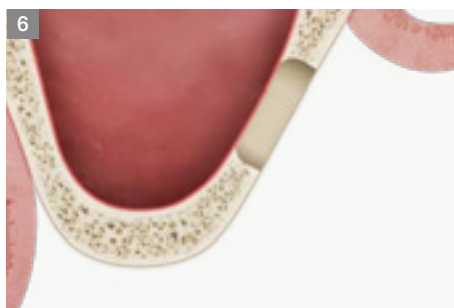
- Assemble a 2mm stopper to the core drill, then drill.
- Recommended RPM: 1,200~1,500rpm
- * The number on the stopper means the height of the drill exposed after fastening.





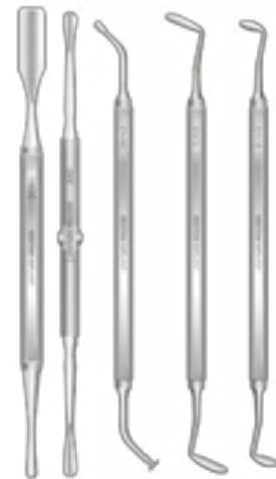
Remove bone lid

- Carefully separate the bone lid from the lateral bone using the freer elevator, which is a lower component.
- * If the bone lid enters the core drill, use a bone separator to separate it.



Window creating complete

- After the sinus membrane is lifted using Sinus KIT, the Implant is placed according to the sequence, or the Implant is placed later after bone grafting.
- * Sinus KIT: LAS KIT bottom panel components



Sinus KIT

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.

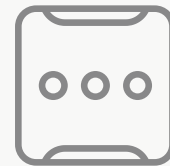
3



First wash

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

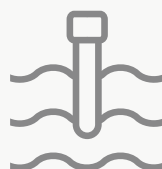
4



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

All trademarks, trade names, product names, brand names, and company names are the property of their respective owners.

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