

OSSTEM[®]
IMPLANT

Surgical Manual

ORP 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

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158 00 Prague, Czech Republic

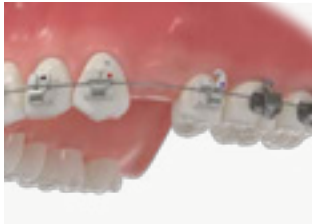
Note: *This brochure is based on the global 2021 Osstem Surgical Manual and has been visually revised and adapted for the European market. Product availability and specifications may vary by country and are subject to change without notice. Images are for illustrative purposes only. For professional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

ORP KIT

Total KIT used for rapid correction MOP/correction screw installation

A Rapid correction MOP technology

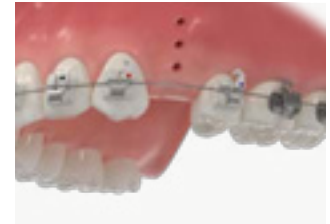
Maxillary jaw



Extract tooth



Sterilize and locally anesthetize



Create hole

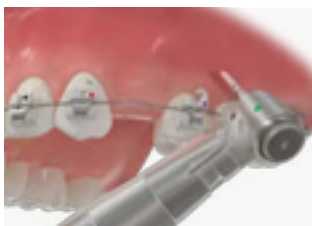
Mandibular jaw



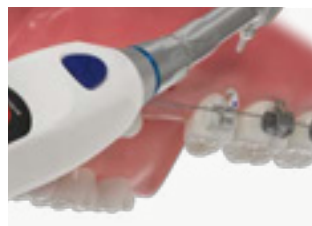
Creating a hole

B Place corrective screw

Maxillary jaw



Drilling



Place corrective screw



Assemble power chain

Mandibular jaw



Corrective screw placement complete

1 Indication

A For rapid corrective MOP treatment



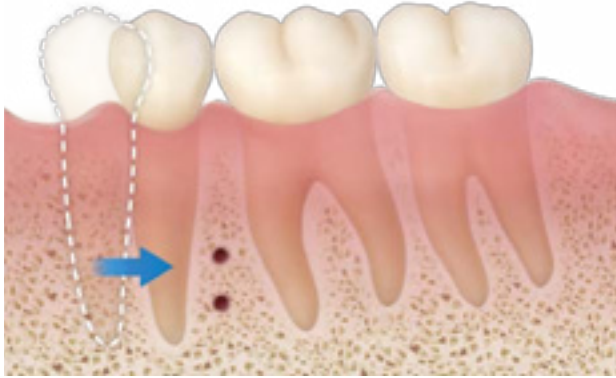
B For corrective screw placement



2 Feature

A Can perform rapid orthodontic corrective treatment

- 10-30% reduction in orthodontic treatment period compared to conventional orthodontic treatment



B Various drills available

- Depending on the surgeon's preference, manual drill, engine drill, and e-driver drill can be selected



Convenient manual drill

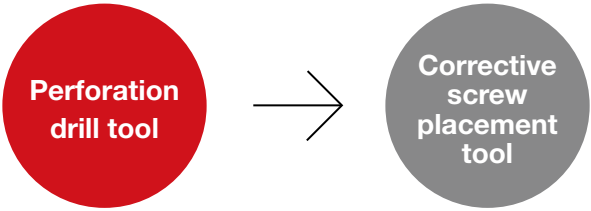


Fast engine drill



Convenient e-Driver drill

4 KIT user instructions



Includes a tool for micro-osteoperforation (MOP) procedure.



1 Perforation drill (handle)



2 Perforation drill (e-Driver)



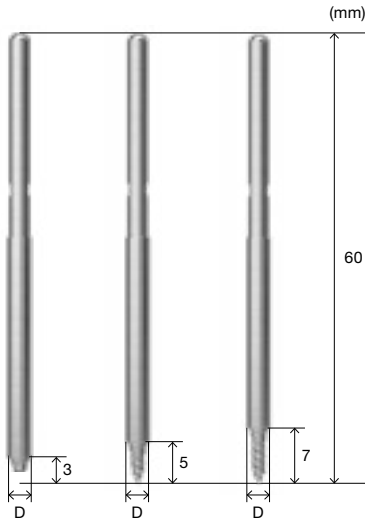
3 Perforation drill (engine)

1 Perforation drill (handle)

Use for MOP(micro-osteoperforation) surgery

User instructions

- Use on the Buccal area for access to the procedure.
- Use $\varnothing 1.5$ in the anterior region, and use $\varnothing 2.0$ in the posterior and interdental areas.
- Assemble to the universal handle.
- Drill to create a hole.



$\varnothing 1.5/2.0 - 3/5/7$ mm available (*7mm Option specification)

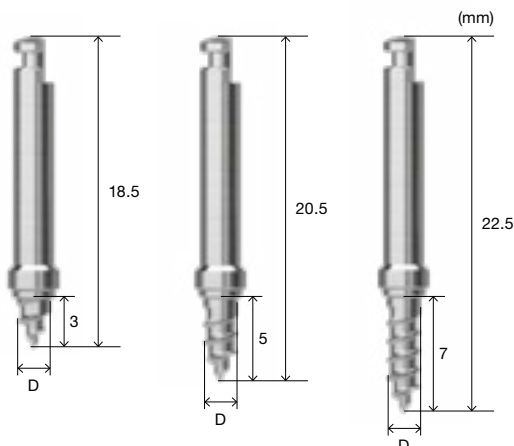


2 Perforation drill (e-Driver)

Use for MOP(micro-osteoperforation) surgery

User instructions

- Use in areas where the handle drill is difficult to access, such as the Palatal area.
- Assemble to e-Driver and use.
- Recommended tightening torque: 25Ncm
- Recommended RPM: 30~1,500rpm
- Drill to create a hole.



$\varnothing 1.5/2.0 - 3/5/7$ mm available (*7mm Option specification)

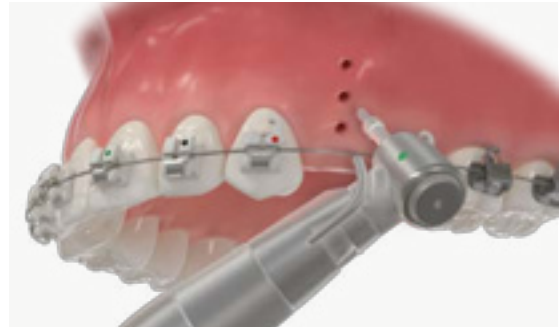
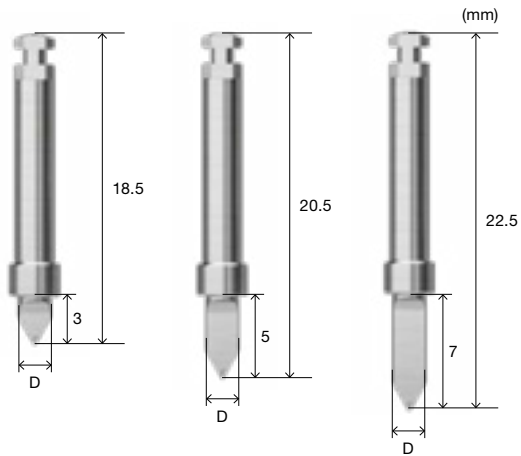


3 Perforation drill (engine)

Use for MOP(micro-osteoperforation) surgery

User instructions

- Use for major surgery.
- Rapid treatment option available for hard bone or hard-to-access areas of the handle drill.
- Use by connecting to the handpiece (engine) (e-Driver cannot be used).
- Recommended RPM is 800~1,200rpm.
- Drill to create a hole.



* Ø1.5-7mm & Ø2.0-3/5/7mm Option specification

Perforation
drill tool



Corrective
screw
placement
tool

Include a tool for orthodontic screw placement procedure.



4 Drill



5 Universal handle



6 Driver tip



7 Machine driver



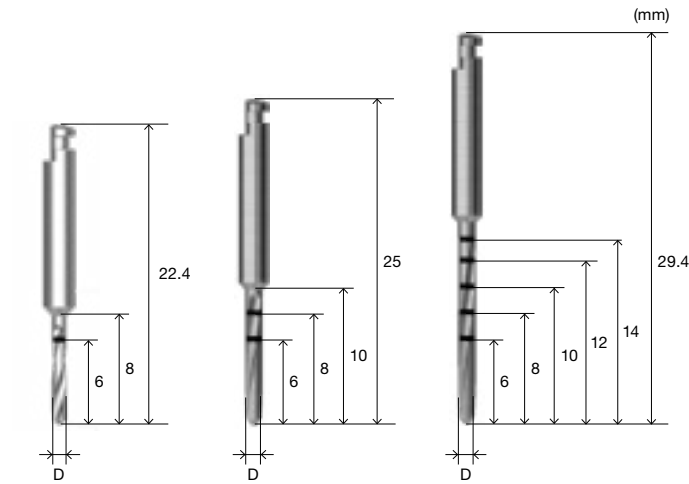
8 Driver handle / hand driver

4 Drill

Drill used to delete cortical bone

User instructions

- The $\varnothing 1.0$ drill is used for $\varnothing 1.2/\varnothing 1.4$ screw operations.
- The $\varnothing 1.3$ drill is used for $\varnothing 1.6$ screw operations.
- The $\varnothing 1.5$ drill is used for $\varnothing 1.8$ screw operations.
- Use by connecting to the Handpiece (engine).
- Recommended RPM: Max. 800rpm
- It is recommended that only the cortical bone be removed and then placed.
(If the cortical bone is very thick, drill the same way as the screw)



Ø1.0 short

Ø1.3/Ø1.5 short

Ø1.3/Ø1.5 long

Ø1.0 /1.3/ 1.5 Short specification (* Option: Long specification Ø1.3/1.5)



5 Universal handle

Use for MOP treatment and orthodontic screw placement.

User instructions

- (When performing MOP surgery) Press the perforation drill (handle) with your finger and tighten it. Drill to create a hole.
- (When installing the orthodontic screw) Press and tighten the Driver Tip by hand (use fingers) Insert the corrective screw.



• MOP(Micro-Osteoperforation)



Perforation Drill for handle

Use fingers to hold down and tighten.



• Place corrective screw



Driver Tip (Hex)

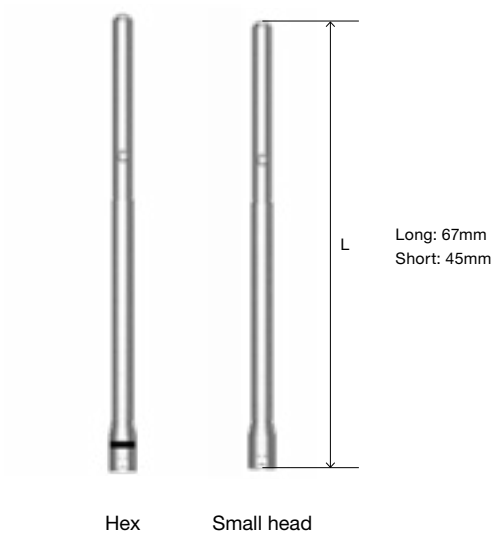


6 Driver tip

Use for OrthAnchor surgery

User instructions

- Use in combination with a universal handle.
- Includes a regular hex driver and a small head driver.
- Compatible with other company's universal handle (company J).

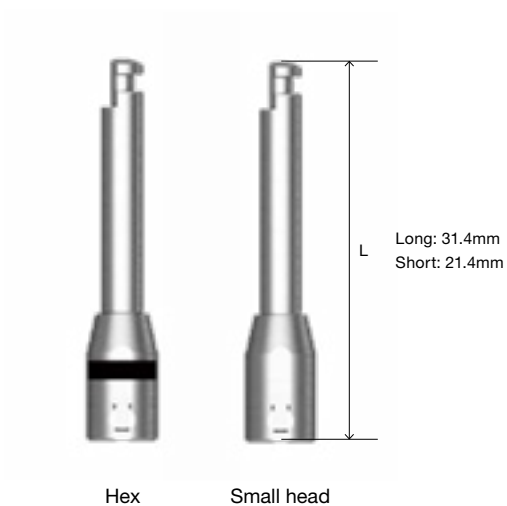


7 Machine driver

Use for OrthAnchor surgery

User instructions

- Use by connecting to the engine or e-Driver.
- Includes a regular hex driver and a small head dedicated machine driver.
- The recommended rotation speed is approx. 20rpm for placement.



8 Driver handle / hand driver

Use when tightening the corrective screw by hand

User instructions

- Assemble the driver handle to the hand driver.
- The hand driver is connected to the driver handle and ratchet wrench and used during OrthAnchor operation.
- Hand driver includes a regular hex driver and a small head dedicated machine driver.
- The hand driver for small head is an optional purchase (not included in the kit).



Driver Handle



Hex



Small head

Hand driver

5 KIT sequence

[MOP surgery sequence] #24

N: Tool number



1 Extract #24 tooth,
then prepare for MOP surgery

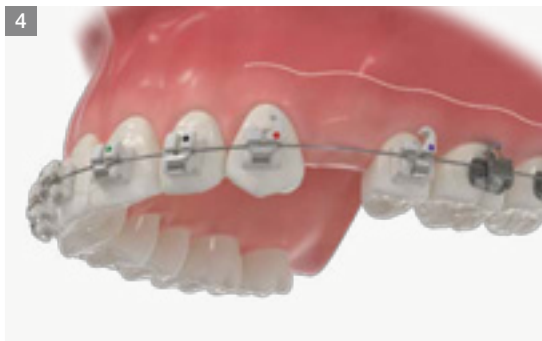


2 Disinfect and locally anesthetize

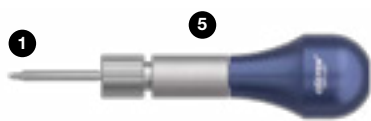
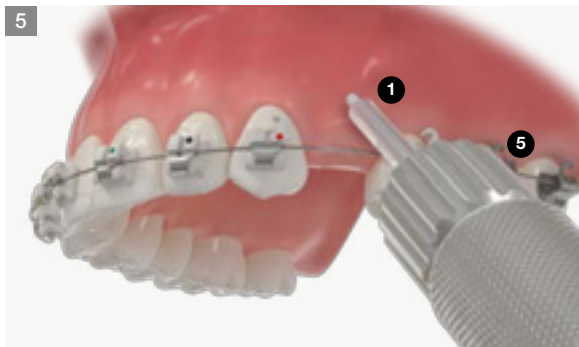


3 Selection of perforation drill according to
gingival and cortical bone thickness

- Anterior
 - : It is recommended to use a Ø1.5 drill between narrow teeth such as anterior teeth.
 - : Drill selected according to the deep gingival and cortical bone thickness.
- Posterior
 - : Ø2.0 drill can be used between wide teeth such as posterior teeth (Ø1.5 also possible)
 - : Drill selected according to the deep gingival and cortical bone thickness.



4 Select treatment site above the interdental
mucogingival junction

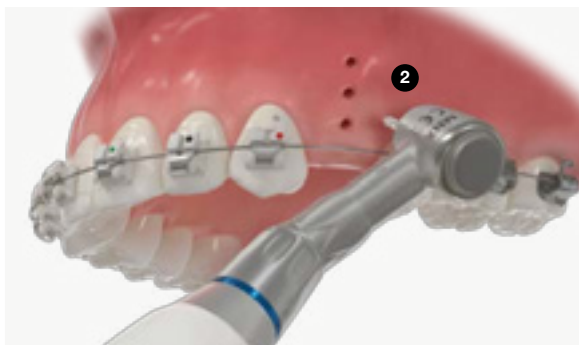
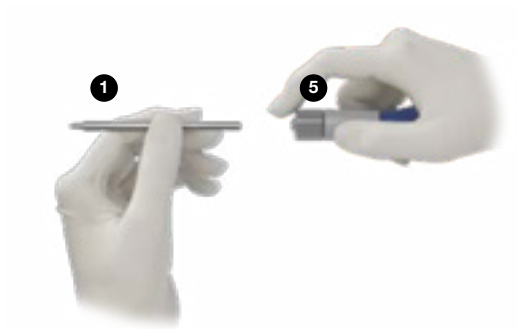


<Use a universal handle>

MOP surgery (use universal handle)

- Create 2~3 holes using the universal handle that is fastened with a perforation drill (handle) above the interdental mucogingival junction.

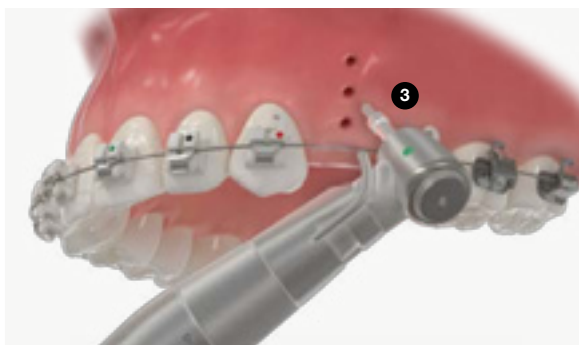
* Exercise caution to maintain the path when drilling for placement



<Use e-Driver>

MOP surgery (use e-Driver)

- Create 2~3 holes using the e-Driver with the perforation drill (e-Driver) connected above the interdental mucogingival junction.
- Recommended RPM: 30~60rpm



<Use engine>

MOP surgery (use engine)

- Create 2~3 holes using the engine with the perforation drill (engine) connected above the interdental mucogingival junction.
- Recommended RPM: 1,200rpm

[Corrective screw placement sequence] Between #25 and #26



Assemble to handpiece

- Assemble Ø1.3 drill to the handpiece.



Drilling

- Drill only the cortical area with a handpiece with a Ø1.3 drill attached.
- Recommended RPM: 800rpm



Assemble to e-Driver

- Assemble the machine driver to the e-Driver.



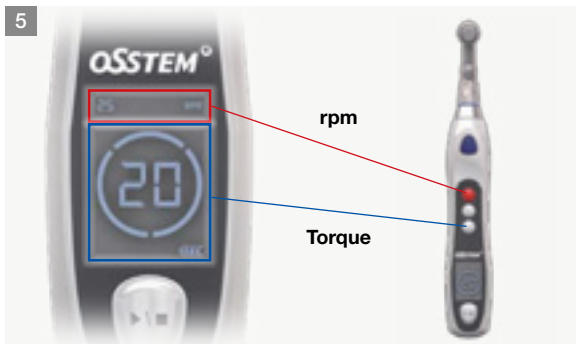
Assemble corrective screw

- Assemble the calibration screw with the e-Driver connected with the machine driver.
- Corrective screw [Simple head]: Ø1.6x8mm



Corrective screw

N: Tool number



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.

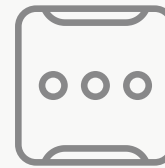
3



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.

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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

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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.

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