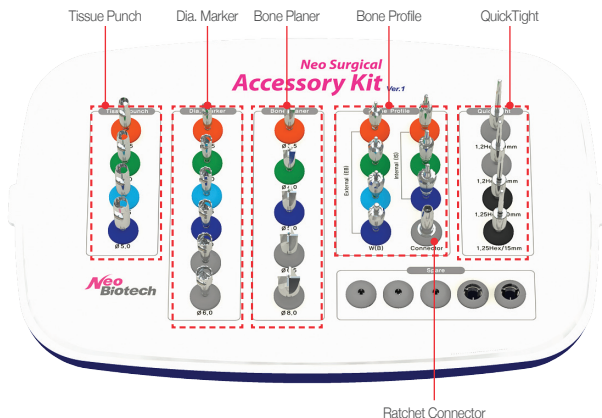


# Neo Surgical Accessory Kit User Guide



## Product description

This product is the Neo Surgical Accessory Kit, consisting of dental implant surgical tools (drill, surgical tools, and driver) made of medical-grade materials, including stainless steel.



## Intended use

This Neo Surgical Accessory Kit is a Surgical Kit that consists of accessory tools that help conduct, in an easy, rapid, and successful manner, side procedures or secondary procedures that need to be performed due to issues arising during an implantation procedure.

## Preservation

Store at room temperature in a dry location away from direct light.

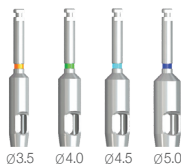
## How to Prepare Before Use

- 1 Prior to using this product, the clinician must completely understand the condition, performance, and function of the product.
- 2 Use only after raising any doubts and verifying any issues with the manufacturer.
- 3 For the procedure, a plan must be first established, based on checking the patient's oral condition and accurate judgments.
- 4 After taking into consideration the condition of the patient, tools appropriate for the procedure must be prepared.

## I Components

### 1 Tissue Punch

This tool is used to carve out tissue to enable implantation without opening the gum. (1,000 rpm)



Product Name	Diameter(ø)
TP35	Ø3.5
TP40	Ø4.0
TP45	Ø4.5
TP50	Ø5.0

\* 1,000rpm



01  
Locate the Tissue Punch on the implantation position and rotate around 100rpm.



02  
Tissue is removed as much as Tissue Punch diameter.



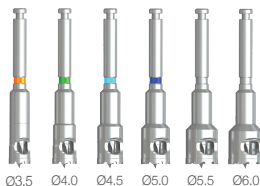
03  
Image of tissue removed at implantation position.



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### 2 Dia. Marker

This tool is to mark rapidly and accurately the diameter and spacing of the fixtures to be implanted, as well as the exact locations for implantation on the bone.



Product Name	Diameter(ø)
DM35	Ø3.5
DM40	Ø4.0
DM45	Ø4.5
DM50	Ø5.0
DM55	Ø5.5
DM60	Ø6.0

\* 1,200rpm



01  
Drilling bone around 1,200rpm.



02  
The diameter and distance of fixture will be marked on the bone as a circle formation.



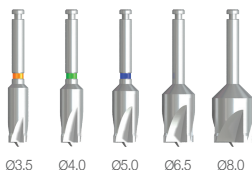
03  
Implant the fixture on the marked circle of the bone and this reduce the surgery time.



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### 3 Bone planer

This tool is to smooth out uneven surfaces of the bone when implanting.



Product Name	Diameter(ø)
BP35	Ø3.5
BP40	Ø4.0
BP50	Ø5.0
BP65	Ø6.5
BP80	Ø8.0

\* 1,200rpm



01 Drilling bone around 1,200rpm. simple drilling is available by guide part of Bone Planer.

02 Get flat surface of cortical bone for easy implantation after Bone Planer Drilling.

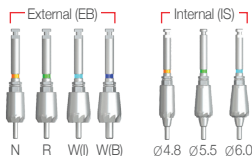
03 Simple and fast implantation is available use of Bone Planer.



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### 4 Bone Profile

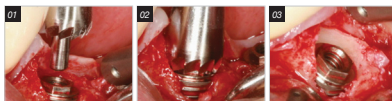
After removing the cover screw or the Healing Abutment, this tool is used to trim bone which has grown up around the upper part of the fixture and the surrounding area.



Type	Product Name	compatibility Fixture size
External (EB)	BPN40	Narrow
	BPR50	Regular
	BPI60	Wide(I)
	BPB60	Wide(B)

Type	Product Name	Diameter(ø)
Submerged (IS)	ISBP48	Ø4.8
	ISBP55	Ø5.5
	ISBP60	Ø6.0

\* 50rpm



01 Image of bone recovered over Fixture Hex Top.

02 Remove the surrounded bone of hex top use of Bone Profile.

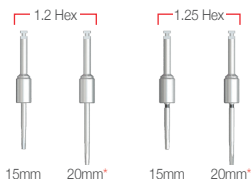
03 Image of bone is clearly removed on the hex top by Bone Profile.



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## 5 QuickTight

This tool allows for the quick, easy attaching of the Cover Screws, Healing Abutments, Abutment screws, and other components.



Product Name	Hex size	Diameter(ø)
QTH1215	1.2 Hex	15mm
QTH1220		20mm
* QTH12515	1.25 Hex	15mm
* QTH12520		20mm

\* 500~1,000rpm / 1~2Ncm

\* Optional

After the QuickTight is used, attachment must be completed by applying an appropriate amount of torque, manually or by using a Torque Wrench.



01 Combine Screw(Cover Screw, Abutment Screw, Healing) with QuickTight.

02 Combine screw as 500~1,000rpm. Bottom part of Quick Tight will stop around 1~2Ncm.



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### <Characteristics>

1. No need to go through the inconvenience of attaching by hand.
2. Convenient when used for molars.
3. Reduces length of surgery (attachment possible within one minute)
4. Allows for fast and safe attachment (Designed to spin without torquing at 1 to 2 Ncm)

## I How to Sterilize

- 1 Because the product is a non-sterilized medical device, select either a pre-vacuum or a gravity autoclave. (Plastic products must not be sterilized at or above 170°C (338°F))
- 2 Before sterilization, the inner wrapper must be removed from the tray. Assembled components must be separated in order to improve the efficiency of sterilization.
- 3 Using surgical wrap, wrap the tray, seal with autoclave tape, and sterilize.

<Recommended Steam Sterilization Conditions >

	Cycle Type	Temperature	Pressure	Exposure Time	Dry Time
KIT, Instrument	Pre-vacuum <sup>②</sup>	132 °C	2 bars	3 minutes	30 minutes
		270 °F	28.5 psi		
KIT, Instrument	Gravity <sup>①</sup>	121 °C	1 bars	40 minutes	30 minutes
		250 °F	14.5 psi		

In order to effectively carry out high-pressure steam sterilization, the use of biological indicators at a regular interval must be considered. (Dry heat sterilization or chemical sterilization is not recommended.)

① Minimum time and temperature conditions for steam sterilization to reach the sterilization guarantee level of 10<sup>-6</sup>

② If regional or national sterilization requirements are stricter than the conditions provided above, they must be followed.

If the above sterilization conditions are exceeded, it is possible that the plastic and components may be damaged. The sterilization device must be adjusted to ensure that the recommended temperatures are not exceeded.

## I How to Wash after Use

### Surgical Tools

- 1 After the procedure ends, detach all surgical tools from the tray, soak them in alcohol, and rinse them using conventional means.
- 2 After washing by using distilled water or flowing water and rinsing, remove any traces of blood or foreign objects remaining. Use a syringe or pipe cleaner for areas that are difficult to wash.
- 3 Following the instructions of the cleaner manufacturer, dilute the enzyme cleaner using tap water and, after ten minutes of ultrasound washing, rinse using tap water for three minutes.
- 4 Completely remove the moisture using a dry cloth or a warm-air circulator.

### KIT Tray

- 1 Remove all visible foreign objects using distilled water or flowing water and a soft brush. For areas that are difficult to clean, use a syringe or pipe cleaner.
- 2 Following the instructions of the cleaner manufacturer, dilute the enzyme cleaner using tap water and soak for one minute. Afterwards, using a soft brush, remove any foreign objects remaining on any part.
- 3 After washing, rinse for three minutes using tap water to remove the remaining enzyme cleaner.

- 4 Completely remove the moisture using a dry cloth or a warm-air circulator.
- 5 Organize the dry surgical tools in the kit case and sterilize, following the sterilization procedure. (At this time, refer to the colors to make the setup easy.)

## I How to Store and Maintain after Use

- 1 All surgical tools that were used must be immediately detached, washed, and dried, after the procedure, then stored at room temperature.
- 2 Do not store in a soiled area or where there is a risk of infection.
- 3 This product is a non-sterilized medical device. Accordingly, it may be used only after sterilizing in an autoclave before and after any procedure. (See How to Sterilize)

## I Precaution

- 1 Only dentists who have completed implant procedure education and training courses can use this product.
- 2 For each patient, a procedure plan must be established, based on a treatment plan after testing and analyzing for whole-body ailments, infectious disease, whether they are receiving treatment for other ailments, and whether there is any oral lesion.
- 3 The surgeon must use the product only after becoming completely familiar with how to use the product and the relevant warnings, and must select products that fit the treatment plan.
- 4 Before each procedure, the tools must be examined for wear and tear.
- 5 Any external contact with the surfaces is prohibited.
- 6 Improper selection of the patient or procedure may cause failure of the implant or post-surgical bone loss around the implant.
- 7 Hydrogen peroxide is prohibited for disinfection and washing, as it could damage or discolor the TiN Coating, Laser Markings, or Colors.

## I Contraindication












- 1 Patients with serious internal ailments: endocrinal ailments such as diabetes or hypertension, circulatory ailments, and ailments related to the blood, organ, or immune systems.
- 2 Patients receiving high-level radiation treatment for malignant tumors or other reasons.
- 3 Patients who have unsuitable jaw relations or problematic occlusions.
- 4 Patients with dry mouths.
- 5 Patients with unrestored teeth who maintain bad oral health conditions.
- 6 Patients with acute inflammatory ailments and patients who are at risk of infection.
- 7 Pregnant patients.
- 8 Smokers.
- 9 Patients with blood clotting conditions or with severe cardiac ailments.
- 10 Children aged 16 years or younger.

- 11 Patients who are allergic to titanium or stainless steel.
- 12 Patients without ordinary wound-healing function.
- 13 Patients who are taking other drugs.
- 14 Patients who are vulnerable to physical and mental stress due to temporary use of a specific medication.
- 15 Patients who are emotionally unstable, such as due to alcohol addition, drug abuse, neurological ailments, or mental ailments.
- 16 Patients who have unrealistic expectations regarding the treatment.

## Side effect

- 1 Using surgical techniques in a skillful manner minimizes the occurrence of complications.
- 2 Paresthesia due to nerve damage or malocclusion, infection, edema, hypodermic bleeding, pain, or opening of the sutures, ulcer in the soft tissues, and other localized adverse reactions may occur.
- 3 Localized and general allergic reactions.

## Label Symbols

Symbol	Definition	Symbol	Definition
	Catalog Number	 CONSULT INSTRUCTIONS FOR USE	Consult instruction for use
	Batch Code	 STERILIZED USING IRRADIATION	Sterilized Using irradiation
	Date of manufacture	 Prescription only	Prescription Only
	Manufacturer	 DO NOT REUSE	Do not re-use
 CAUTION, CONSULT ACCOMPANYING DOCUMENTS	Caution, consult accompanying documents	 DO NOT USE IF PACKAGE IS DAMAGED	Do not use if package is damaged
 NON-STERILE	Non-Sterile		

\* This product is a non-sterilized medical device.





