

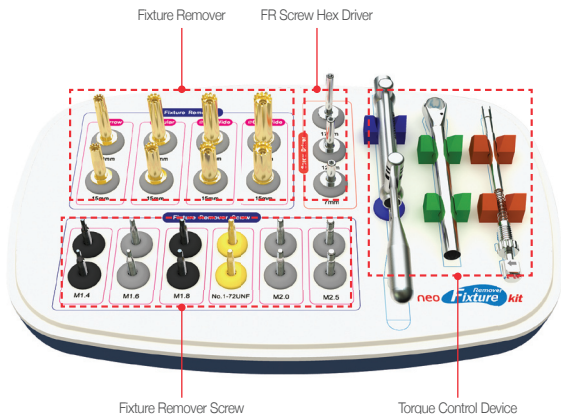
# Neo FR Kit

## User Guide



## Product description

This product is a fixture remover kit consisting of dental implant surgical tools (drills, surgical tools, drivers) manufactured from medical device materials such as stainless steel.



## Intended use

This product is a surgical tool designed to remove implants that were stopped during the implantation due to excessive torque or implants whose surrounding bones have been damaged. After removing the implant, a new implant with the same diameter can be immediately implanted.

## Preservation

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

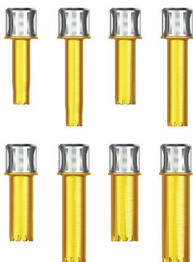
## How to Prepare Before Use

- 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.

## Components

### 1 Fixture Remover

This is used in combination with a fixture remover screw, and is used to remove the implant by directly applying removing torque



|             | Product Name | Length |
|-------------|--------------|--------|
| Narrow      | FR315        | 15mm   |
|             | FR320        | 20mm   |
| Regular     | FR415        | 15mm   |
|             | FR420        | 20mm   |
| Wide (Ø5)   | FR515        | 15mm   |
|             | FR520        | 20mm   |
| Wide (Ø6~8) | FR615        | 15mm   |
|             | FR620        | 20mm   |

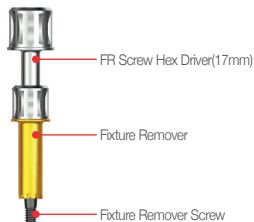
### 2 FR Screw Hex Driver

This is used when the fixture remover screw needs to be affixed to, or removed from, the implant.



| Product Name | Length |
|--------------|--------|
| HDF1607      | 7mm    |
| HDF1612      | 12mm   |
| HDF1617      | 17mm   |

<HDF1617 is used when removing the FR screw from the fixture remover>



### 3 Fixture Remover Screw

This is connected to the screw hole inside the implant to be removed. It is connected to the implant and the fixture remover to allow the implant to be removed.



| Product Name | Screw size |
|--------------|------------|
| FRS14        | M1.4       |
| FRS16        | M1.6       |
| FRS18        | M1.8       |
| FRS172       | 1-72UNF    |
| FRS20        | M2.0       |
| FRS25        | M2.5       |

\* "M" means a metric screw, and the number stands for the size of the external diameter of the screw

### 4 Torque Control Device

This can be used by connecting the fixture remover or the FR screw hex driver. It is used to apply to, or measure from, the connected surgical tool an exact amount of torque.



| Product Name | Screw size   |
|--------------|--------------|
| TW80400      | 80Ncm/400Ncm |

## I Instruction for use

- Before using the surgical tool, sterilize and disinfect the components based on our recommended steam sterilization conditions.
- Completely remove the prosthesis connected to the implant that needs to be removed.
- After selecting the fixture remover screw that is the appropriate size for the size of the screw hole inside the implant that needs to be removed, connect it to the FR screw hex driver and apply a torque of 40~80Ncm to the implant. (Figures 1, 2)

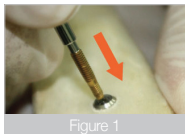


Figure 1

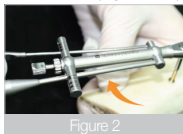


Figure 2

\* Recommended tightening torque according to the Fixture remover screw size is as follows

<Fixture remover screw Guide Torque>

| Screw | Spec. | Recommended Torque (Ncm) | Screw  | Spec.   | Recommended Torque (Ncm) |
|-------|-------|--------------------------|--------|---------|--------------------------|
| FRS14 | M1.4  | 60                       | FRS172 | 1-72UNF | 80                       |
| FRS16 | M1.6  | 80                       | FRS20  | M2.0    | 80                       |
| FRS18 | M1.8  | 80                       | FRS25  | M2.5    | 80                       |

- 4 Rotate the fixture remover connected to the fixture remover screw attached to the implant in a counterclockwise direction as far as possible then, using the torque control device, apply torque in the removal direction (counterclockwise) until the implant rotates. (Figures 3, 4)



Figure 3

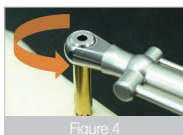


Figure 4

\* The maximum torque based on the fixture size is as follows

<Fixture removing torque>

| Fixture Size | Remover        | Screw          | Maximum Torque(Ncm) |
|--------------|----------------|----------------|---------------------|
| Narrow       | FR315 or FR320 | FRS14          | 200                 |
|              |                | FRS16          | 250                 |
|              |                | FRS18 / FRS172 | 300                 |
|              |                | FRS20          | 350                 |
| Regular      | FR315 or FR320 | FRS18 / FRS172 | 300                 |
|              |                | FRS20          | 350                 |
|              | FR415 or FR420 | FRS18 / FRS172 | 300                 |
|              |                | FRS20          | 350                 |
| Wide (Ø5)    | FR415 or FR420 | FRS20          | 350                 |
|              |                | FRS25          | 400                 |
|              | FR515 or FR520 | FRS20          | 350                 |
|              |                | FRS25          | 400                 |
| Wide (Ø6-8)  | FR515 or FR520 | FRS20          | 350                 |
|              |                | FRS25          | 400                 |
|              | FR615 or FR620 | FRS20          | 350                 |
|              |                | FRS25          | 400                 |

### 5 Optional procedure

If the implant cannot be removed even after the fixture removing torque has been applied, remove the fixture remover from the implant and, using the round bur, remove a minimum amount of the bone surrounding the upper part of the implant. Then retry the step "number 4." (Figures 5, 6)

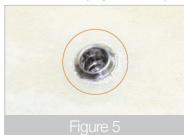


Figure 5

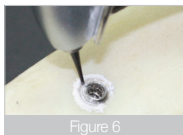


Figure 6

- 6 Attach a vise to the lower part of the removed implant (Figure 7). After connecting the torque control device to the fixture remover, rotate clockwise in order to separate from the implant. (Figures 8, 9)

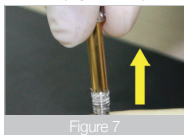


Figure 7

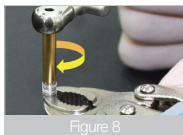


Figure 8

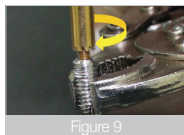


Figure 9

Separate all of the fixture remover screws connected to the removed implant by rotating them counterclockwise, using the FR screw hex driver. (Figures 10, 11)

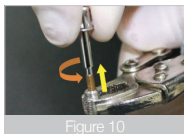
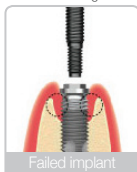


Figure 10

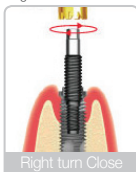


Figure 11

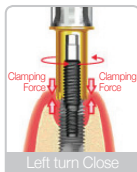
<Fixture removing mimetic diagram>



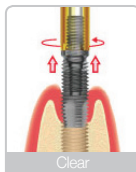
Failed implant



Right turn Close



Left turn Close



Clear

## | Precaution for use

- ① The product must be used only after the user becomes completely familiar with the proper methods of use.
- ② When selecting the size of the fixture remover screw, the precise size of the screw hole inside the implant that needs to be removed must be verified. If not, incomplete fixation of the fixture remover screw to the implant may cause the screw to become damaged or fractured before the implant can be removed  
(If a fixture remover screw is used that is too small for the size of the screw hole inside the implant, connection can be forced. Accordingly, when the proper size is unknown, start from the largest size fixture remover screw and go down until the proper size fixture remover screw to connect is selected.)
- ③ When selecting the size of the fixture remover, it is recommended that a size bigger than the diameter of the upper part of the implant be selected. If a smaller size is used, it may not be able to properly receive the removing torque, making it difficult to remove the implant.
- ④ When affixing the fixture remover screw, it must be affixed using the recommended amount of torque. If not, the fixture remover screw may fracture, bend, or it may simply rotate between the implant and the fixture remover.
- ⑤ A fixture remover screw and fixture remover must be used one time only as the fixture remover screw and fixture remover may bend or fracture if reused. Accordingly, reuse is prohibited.
- ⑥ When the maximum removing torque is exceeded in the course of using the fixture remover, there is a risk that the surgical tool will be damaged, or the implant will be shattered or bone fractured. Accordingly, caution should be taken not to exceed the maximum removing torque.
- ⑦ If 60 Ncm or a higher amount of torque is applied when removing the implant, the implant must be removed with adequate irrigation in order to prevent any overheating.
- ⑧ When using the torque control device together with surgical tools, if torque is applied before they are completely connected, the product performance may be reduced or the product may be damaged. Accordingly, use only after they are properly connected.  
(Such as a fixture remover, or FR Screw hex driver)

## | 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.

- 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,<br>Instrument | Pre-vacuum <sup>12</sup> | 132 °C      | 2 bars   | 3 minutes     | 30 minutes |
|                    |                          | 270 °F      | 28.5 psi |               |            |
| KIT,<br>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.

## How to Wash after Use

### Surgical Tools

- After the procedure ends, detach all surgical tools from the tray, soak them in alcohol, and rinse them using conventional means.
- 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.
- 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.
- Completely remove the moisture using a dry cloth or a warm-air circulator.

### KIT Tray

- 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.
- 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.
- After washing, rinse for three minutes using tap water to remove the remaining enzyme cleaner.
- Completely remove the moisture using a dry cloth or a warm-air circulator.
- 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.)



## | 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)

## | 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.

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

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

## Compatibility List for FR Kit

| Corporation   | Implant System                             | Implant Diameter | Internal Thread Size | Solution Kit Compatibility | Note   |
|---------------|--------------------------------------------|------------------|----------------------|----------------------------|--------|
| Nobel Biocare | Branemark System MK III Groovy NP Ø3.3mm   |                  | M1.6x0.35P           | YES                        |        |
|               | Branemark System MK III Groovy RP Ø3.75mm  |                  | M2.0x0.4P            | YES                        |        |
|               | Branemark System MK III Groovy RP Ø4.0mm   |                  | M2.0x0.4P            | YES                        |        |
|               | Branemark System MK III Groovy WP Ø5.0mm   |                  | M2.5x0.45P           | YES                        |        |
|               | NobelSpeedy System MK III Groovy NP Ø3.3mm |                  | M1.6x0.35P           | YES                        |        |
|               | NobelSpeedy System MK III Groovy RP Ø4.0mm |                  | M2.0x0.4P            | YES                        |        |
|               | NobelSpeedy System MK III Groovy WP Ø5.0mm |                  | M2.0x0.4P            | YES                        |        |
|               | NobelSpeedy System MK III Groovy WP Ø6.0mm |                  | M2.5x0.45P           | YES                        |        |
|               | NobelReplace Straight Groovy NP Ø3.5mm     |                  | M1.8x0.35P           | YES                        |        |
|               | NobelReplace Straight Groovy RP Ø4.0mm     |                  | M2.0x0.4P            | YES                        |        |
|               | NobelReplace Straight Groovy WP Ø5.0mm     |                  | M2.0x0.4P            | YES                        |        |
|               | NobelSpeedy Replace NP Ø3.5mm              |                  | M1.8x0.35P           | YES                        |        |
|               | NobelSpeedy Replace RP Ø4.0mm              |                  | M2.0x0.4P            | YES                        |        |
|               | NobelSpeedy Replace WP Ø5.0mm              |                  | M2.0x0.4P            | YES                        |        |
|               | NobelSpeedy Replace 6.0 Ø6.0mm             |                  | M2.0x0.4P            | YES                        |        |
|               | NobelReplace Tapered NP Ø3.5mm             |                  | M1.8x0.35P           | YES                        |        |
|               | NobelReplace Tapered RP Ø4.3mm             |                  | M2.0x0.4P            | YES                        |        |
|               | NobelReplace Tapered WP Ø5.0mm             |                  | M2.0x0.4P            | YES                        |        |
|               | NobelReplace Tapered 6.0 Ø6.0mm            |                  | M2.0x0.4P            | YES                        |        |
|               | NobelActive 3.5 Ø3.5mm                     |                  | M1.54                | SPECIAL ORDER              |        |
| Straumann     | Standard Ø3.3 RN                           |                  | M2.0x0.4P            | YES                        |        |
|               | Standard Ø4.1 RN                           |                  | M2.0x0.4P            | YES                        |        |
|               | Standard Ø4.8 RN                           |                  | M2.0x0.4P            | YES                        |        |
|               | Standard Ø4.8 WN                           |                  | M2.0x0.4P            | YES                        |        |
|               | Standard Plus Ø3.3 NN                      |                  | No Inspection        | M1.6 or M1.8               | verify |
|               | Standard Plus Ø3.3 RN                      |                  | M2.0x0.4P            | YES                        |        |
|               | Standard Plus Ø4.1 RN                      |                  | M2.0x0.4P            | YES                        |        |
|               | Standard Plus Ø4.8 RN                      |                  | M2.0x0.4P            | YES                        |        |
|               | Standard Plus Ø4.8 WN                      |                  | M2.0x0.4P            | YES                        |        |
|               | Tapered Effect Ø3.3 RN                     |                  | M2.0x0.4P            | YES                        |        |
|               | Tapered Effect Ø4.1 RN                     |                  | M2.0x0.4P            | YES                        |        |
|               | Tapered Effect Ø4.8 RN                     |                  | M2.0x0.4P            | YES                        |        |
|               | Bone Level Implant Ø3.3 NC                 |                  | No Inspection        | M1.6 or M1.8               | verify |
|               | Bone Level Implant Ø4.1 NC                 |                  | No Inspection        | M1.6 or M1.8               | verify |
|               | Bone Level Implant Ø4.8 NC                 |                  | No Inspection        | M1.6 or M1.8               | verify |
| 3i Biomet     | Certain® Internal Ø3.4                     |                  | No Inspection        | M1.6 or M1.8               | verify |
|               | Certain® Internal Ø4.1                     |                  | No Inspection        | M1.6 or M1.8               | verify |
|               | Certain® Internal Ø5.0                     |                  | No Inspection        | M1.6 or M1.8               | verify |
|               | Certain® Internal Ø6.0                     |                  | No Inspection        | M1.6 or M1.8               | verify |
|               | External Ø3.4                              |                  | M2.0x0.4P            | YES                        |        |
|               | External Ø4.1                              |                  | M2.0x0.4P            | YES                        |        |
|               | External Ø5.0                              |                  | M2.0x0.4P            | YES                        |        |

## Compatibility List for FR Kit

| Corporation                  | Implant System                                         | Implant Diameter | Internal Thread Size   | Solution Kit Compatibility | Note |
|------------------------------|--------------------------------------------------------|------------------|------------------------|----------------------------|------|
|                              | External Ø6.0                                          |                  | M2.0x0.4P              | YES                        |      |
| Zimmer<br>(Screw-Vent)       | Screw Advent Implant Ø3.3                              |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Screw Advent Implant Ø3.7                              |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Screw Advent Implant Ø4.7                              |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Tapered Screw Advent Implant Ø3.7                      |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Tapered Screw Advent Implant Ø4.7                      |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Tapered Screw Advent Implant Ø6.0                      |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Advent Implant Ø3.7 (Ø4.5 Platform)                    |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Advent Implant Ø4.7 (Ø4.5 Platform)                    |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Advent Implant Ø4.7 (Ø5.7 Platform)                    |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
| Zimmer<br>(Swissplus)        | Straight Swissplus Implant Ø4.1                        |                  | M2.0x0.4P              | YES                        |      |
|                              | Straight Swissplus Implant Ø4.8                        |                  | M2.0x0.4P              | YES                        |      |
|                              | Tapered Swissplus Implant Ø3.7 (Ø3.8 Platform)         |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Tapered Swissplus Implant Ø3.7                         |                  | M2.0x0.4P              | YES                        |      |
|                              | Tapered Swissplus Implant Ø4.8                         |                  | M2.0x0.4P              | YES                        |      |
| Zimmer(Spline)               | Spline Twist Implants 3.75mmD                          |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Spline Twist Implants 5.0mmD                           |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Spline Reliance Cylinder Implants 3.25mmD              |                  | No Inspection          |                            |      |
|                              | Spline Reliance Cylinder Implants 4.0mmD               |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | Spline Reliance Cylinder Implants 5.0mmD               |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
| Astra                        | OsseoSpeed 3.0S                                        |                  | M1.4x0.3P              | NO                         |      |
|                              | OsseoSpeed 3.5S                                        |                  | M1.6x0.35P             | YES                        |      |
|                              | OsseoSpeed 4.0S                                        |                  | M1.6x0.35P             | YES                        |      |
|                              | OsseoSpeed 4.5                                         |                  | M2.0x0.4P              | YES                        |      |
|                              | OsseoSpeed 5.0                                         |                  | M2.0x0.4P              | YES                        |      |
|                              | OsseoSpeed 5.0S                                        |                  | M2.0x0.4P              | YES                        |      |
| Keyston Dental<br>(Lifecore) | PrimaConnex Internal Connection Tapered Implants Ø3.5  |                  | M1.8x0.35P             | YES                        |      |
|                              | PrimaConnex Internal Connection Tapered Implants Ø4.1  |                  | M1.8x0.35P             | YES                        |      |
|                              | PrimaConnex Internal Connection Tapered Implants Ø5.0  |                  | M1.8x0.35P             | YES                        |      |
|                              | PrimaConnex Internal Connection Straight Implants Ø3.3 |                  | M1.8x0.35P             | YES                        |      |
|                              | PrimaConnex Internal Connection Straight Implants Ø4.0 |                  | M1.8x0.35P             | YES                        |      |
|                              | PrimaConnex Internal Connection Straight Implants Ø5.0 |                  | M1.8x0.35P             | YES                        |      |
|                              | RENOVA RBM Tapered Implants Ø3.75                      |                  | M1.8x0.35P             | YES                        |      |
|                              | RENOVA RBM Tapered Implants Ø4.5/4.75                  |                  | M1.8x0.35P             | YES                        |      |
|                              | RENOVA RBM Straight Implants Ø3.75                     |                  | M1.8x0.35P             | YES                        |      |
|                              | RENOVA RBM Straight Implants Ø4.5/4.75                 |                  | M1.8x0.35P             | YES                        |      |
|                              | RESTORE Small Diameter Ø3.3                            |                  | 1-72UNF(M1.854x0.353P) | YES                        |      |
|                              | RESTORE Regular Diameter Ø3.75 & Ø4.0                  |                  | M2.0x0.4P              | YES                        |      |
|                              | RESTORE Small Diameter Wide Diameter Ø5.0 & Ø6.0       |                  | M2.5x0.45P             | YES                        |      |
|                              | STAGE-1 system Ø3.3 (RDS)                              |                  | M2.0x0.4P              | YES                        |      |
|                              | STAGE-1 system Ø4.1 (RDS)                              |                  | M2.0x0.4P              | YES                        |      |

## Compatibility List for FR Kit

| Corporation | Implant System                        | Implant Diameter | Internal Thread Size   | Solution Kit Compatibility | Note   |
|-------------|---------------------------------------|------------------|------------------------|----------------------------|--------|
|             | STAGE-1 system Ø4.8 (RDS)             |                  | M2.0x0.4P              | YES                        |        |
|             | STAGE-1 system Ø4.8 (WDS)             |                  | M2.0x0.4P              | YES                        |        |
|             | STAGE-1 system Ø5.5 (WDS)             |                  | M2.0x0.4P              | YES                        |        |
|             | STAGE-1 system Ø6.3 (WDS)             |                  | M2.0x0.4P              | YES                        |        |
| MIS         | MISTRAL Internal Octagon System Ø3.75 |                  | M2.0x0.4P              | YES                        |        |
|             | MISTRAL Internal Octagon System Ø4.1  |                  | M2.0x0.4P              | YES                        |        |
|             | MISTRAL Internal Octagon System Ø4.8  |                  | M2.0x0.4P              | YES                        |        |
|             | Mis Biocom Internal Ø3.3              |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Biocom Internal Ø3.75             |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Biocom Internal Ø4.2              |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Biocom Internal Ø5.0              |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Biocom Internal Ø6.0              |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Seven Internal Ø3.75              |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Seven Internal Ø4.2               |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Seven Internal Ø5.0               |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Seven Internal Ø6.0               |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Lance Internal Ø3.75              |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Lance Internal Ø4.2               |                  | 1-72UNF(M1.854x0.353P) |                            |        |
|             | Mis Lance Internal Ø5.0               |                  | 1-72UNF(M1.854x0.353P) |                            |        |
| Dentsply    | Ankylos internal Ø3.5                 |                  | M1.8x0.35P             | YES                        |        |
|             | Ankylos internal Ø4.5                 |                  | M1.8x0.35P             | YES                        |        |
|             | Ankylos internal Ø5.5                 |                  | M1.8x0.35P             | YES                        |        |
|             | Ankylos internal Ø7.0                 |                  | M1.8x0.35P             | YES                        |        |
|             | Xive S internal Implant Ø3.0          |                  | M1.6x0.35P             | YES                        |        |
|             | Xive S internal Implant Ø3.4          |                  | M1.6x0.35P             | YES                        |        |
|             | Xive S internal Implant Ø3.8          |                  | M1.6x0.35P             | YES                        |        |
|             | Xive S internal Implant Ø4.5          |                  | M1.6x0.35P             | YES                        |        |
|             | Xive S internal Implant Ø5.5          |                  | M1.6x0.35P             | YES                        |        |
|             | Xive TG External Implant Ø3.4         |                  | No Inspection          | NO (M1.4x0.3P)             | verify |
|             | Xive TG External Implant Ø3.8         |                  | No Inspection          | NO (M1.4x0.3P)             | verify |
|             | Xive TG External Implant Ø4.5         |                  | No Inspection          | NO (M1.4x0.3P)             | verify |
|             | Frialit Internal Implant Ø3.4         |                  | M1.6x0.35P             | YES                        |        |
|             | Frialit Internal Implant Ø3.8         |                  | M1.6x0.35P             | YES                        |        |
|             | Frialit Internal Implant Ø4.5         |                  | M1.6x0.35P             | YES                        |        |
|             | Frialit Internal Implant Ø5.5         |                  | M1.6x0.35P             | YES                        |        |
|             | Frialit Internal Implant Ø6.5         |                  | M1.6x0.35P             | YES                        |        |
| CAMLOG      | CAMLOG Root Line Ø3.8                 |                  | M1.6x0.35P             | YES                        |        |
|             | CAMLOG Root Line Ø4.3                 |                  | M1.6x0.35P             | YES                        |        |
|             | CAMLOG Root Line Ø5.0                 |                  | M2.0x0.4P              | YES                        |        |
|             | CAMLOG Root Line Ø6.0                 |                  | M2.0x0.4P              | YES                        |        |
|             | Maestro External implants Ø3.5        |                  | No Inspection          |                            |        |

## *Compatibility List for FR Kit*

| Corporation | Implant System                 | Implant Diameter | Internal Thread Size | Solution Kit Compatibility | Note   |
|-------------|--------------------------------|------------------|----------------------|----------------------------|--------|
| Biohorizons | Maestro External implants Ø4.0 |                  | M2.0x0.4P            |                            |        |
|             | Maestro External implants Ø5.0 |                  | M2.0x0.4P            |                            |        |
|             | Maestro External implants Ø6.0 |                  | M2.0x0.4P            |                            |        |
|             | Biohorizons Internal Ø3.5      |                  | No Inspection        | 1-72UNF(M1.854x0.353P)     | verify |
|             | Biohorizons Internal Ø4.0      |                  | No Inspection        | 1-72UNF(M1.854x0.353P)     | verify |
|             | Biohorizons Internal Ø5.7      |                  | No Inspection        | 1-72UNF(M1.854x0.353P)     | verify |
| SPI Implant | SPI Internal Implant Ø3.5      |                  | M1.4x0.3P            | No                         |        |
|             | SPI Internal Implant Ø4.5      |                  | M1.6x0.35P           | YES                        |        |
|             | SPI Internal Implant Ø5.0      |                  | M1.6x0.35P           | YES                        |        |
|             | SPI Internal Implant Ø6.0      |                  | M1.6x0.35P           | YES                        |        |

\* Korean Implant

- Osstem, Dentium, Dentis, DIO : M2.0

- Megagen Anyridge : M1.8



