

BROKEN SCREW EXTRACTION SET INSTRUCTIONS FOR USE

ENG - broken screw extraction set

Broken screw extraction set is compatible with platforms Inhex MINI, (InMn), Inhex Standard (InSt), Inhex Maxi, (InMx), Osseous Mini (OsMn), Osseous Standard (OsSt), Osseous Maxi, (OsMx) and Osseous Maxi PS(OsSt).

1. APPLICATION:

Broken screw extraction set is used to extract a broken screw from inside the implant. As general rule the screw extraction will be possible as long as any kind of cement or fixing agent have been used on the screw or the implant thread is very damaged due to previous attempts to extract it.

2. INSTRUCTIONS FOR USE:

Step 1: Choose the centering appropriate for the implant platform (See the centering marker code according platform in the components kit breakdown)

Step 2: Choose the reamer appropriate for the implant platform according code marked on it

Step 3: Fit the reamer to the multiconversor (multiconversor not included in the set) or to the C/A as you wish.

Step 4: Place the reamer on the implant, and place the reamer-multiconversor set (or reamer in C/A) through it until it rests onto the broken screw.

Step 5: Press the implant and simultaneously turn the reamer-multiconversor (or reamer in C/A) counterclockwise trying to extract the screw. It is possible to need several tries to succeed in extracting the screw. In case of succeeding in loosening the screw go to Step 7 **Step 6a:** If the extraction with reamer fails use the appropriate left-hand direction drill to provide roughness to the screw area and improve the reamer grip. To do this choose the appropriate drill according to the colour code detailed below (*1).

Step 6b: Place the drill inside the contra angle and select left-hand direction with 700-800rpm.

Step 6c: Drill on the screw through the reamer just enough to improve roughness in the screw area, and go back to step 4. It is advisable to get the drill in and out periodically to flush the remains which could block implant thread. It is also advisable, when possible, suck or blow the implant to remove remains.

Step 7: When the screw is almost out, extract it using clamps when possible (Osseous platforms). When it is difficult to access to the screw with clamps (Inhex platforms) it is recommendable to use the centering element and/or the drill left-hand direction at low revolutions rate (200-300 rpm) with lateral and circular movements until the screw is completely loosen.

Step 8: Once the screw is removed it is advisable to clean the implant thread sucking or blowing. (*2)

(*1) It is recommendable to minimize the use of drills to avoid generate remains capable to stall the screw.

(*2) Once the screw is removed if there are still some remains which prevent a new screw from entering freely, use the bone tap with the appropriate metric to remove these remains, introducing it manually or to a maximum of 15rpm.

3. KIT COMPOSITION:



-Inhex MINI Centering (InMn)
-Inhex STD Centering (InSt)
-Inhex Maxi Centering (InMx)



-Osseous MINI Centering (OsMn)
-Osseous STD Centering (OsSt)
-Osseous Maxi Centering (OsMx)

-Osseous Mini/Osseous STD/Osseous MAXI reamer
-Inhex Mini/Inhex STD/Inhex MAXI reamer



-Escariador Osseous Maxi (Os Mx)
-Escariador InHex Mini (In Mn)
-Escariador InHex Estándar (In St)

-Inhex Mini Drill (Two yellow rings)
-Inhex Standard Drill (Two blue rings)

-Osseous Maxi Drill (One aquamarine ring)
-Osseous Mini/Std, Inhex Maxi (no color rings)



4. WARNINGS AND CAUTIONS

For the safety and effectiveness of the instrumental we strongly advice to be used by qualified personal only. THESE INSTRUCTIONS DO NOT INTEND TO SUBSTITUTE AN APPROPRIATE EDUCATION AND TRAINING. The product is provided Non-Sterile, and it must be used under aseptic conditions.

5. PRODUCT COMPOSITION

All the pieces contained in the set are stainless steel manufactured.

6. CLEANING AND STERILIZATION

Products must be cleaned, disinfected and sterilized before each use; this specially should be done prior first use as the products are provided non-sterile. A correct cleaning and disinfection are essential conditions for a proper sterilization. Please note that the disinfectant used in the previous treatment is just for personal protection and it does not substitute the sterilization process which has to be done after the cleaning.

Sterilization method

- Place the product into sterilization bags
- Place the product into the autoclave. Do not sterilize different kind of material in contact.
- The exposure temperature of products and sterilization trays does not exceed the 137°C
- When the autoclave has finished, remove the product from the autoclave.

7. CONTRAINDICATIONS

Do not use products that have varied their properties due to use, so that they are not safe for their intended use.

8. PACKAGING AND STORAGE

Special storage conditions are not necessary as raw materials used are stable under normal pressure and temperature conditions. It is advisable storage between 18°C and 50°C with a limit humid under 70%.

9. LABELLING SYMBOLS

Indications shown on the label.



Attention to usage rules



Lot



Reference



CE Certificate



Manufacturer

MANUFACTURER: **MOZOGRAU, S.A.**

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