BROKEN SCREW EXTRACTOR KIT FOR IMPLANTS

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С

Claw reamer bur (C) inserted in the positioner

FOR REMOVAL OF BROKEN IMPLANT SCREWS



READILY AVAILABLE FOR CORE VENT AND BRANEMARK COMPATIBLE IMPLANTS EXTRACTOR KITS CAN BE MADE TO ORDER FOR MOST common IMPLANT BRANDS WITH AN INTERNAL OR EXTERNAL HEX CONNECTION



PARTS AND ACCESSORIES:

- A MANUAL CENTERING DEVICE
- **B** POSITIONER
- C CLAW REAMER BUR
- D REVERSE CUTTING BUR

CLINIC



BROKEN SCREW

REMOVED

BROKEN SCREW VISIBLE IN X-RAY OF IMPLANT





With the Rhein83 Broken Screw Extractor Kit, it is possible to remove a broken screw from an implant if it has not been bonded or damaged during previous attempts to remove it.

The extractor kit includes two types of burs; a claw reamer bur and reverse cutting bur. In addition, the kit includes manual centering devices to hold the burs in place during the procedure. In 90% of cases, the broken screw can be removed easily with the claw reamer bur. However if the broken screw is firmly stucked inside the implant, the reverse cutting bur must be used.

Broken Screw Extractor Kits are readily available for Core Vent and Branemark compatible implant systems. Other kits, both with internal and external key can be ordered upon request.

To order a custom kit or for technical support, please contact your local Rhein83 distributor.



BROKEN SCREW EXTRACTOR KIT FOR IMPLANTS FOR REMOVAL OF BROKEN IMPLANT SCREWS

USING THE REVERSE CUTTING BUR TO EXTRACT A BROKEN SCREW

Place the reverse cutting bur into the angled handpiece and then insert it into the respective extractor. Before activating the handpiece it is essential that the bur is in contact with the broken screw. Activate the handpiece in a counter clockwise direction and be sure that firm downward pressure is maintained throughout the procedure. It is mandatory to set the rotating ratio between 400 and 600 rpm in order to avoid the implant and the bone overheating. To prevent the implant fixture from overheating, it is necessary to move the reverse cutting bur in an up and down motion intermittently. Upon removing the broken screw, be sure to clean the implant fixture thoroughly to remove any residual metal leftover that remain from the extraction procedure.



Operate between and 2000 rpm

NOTE: Before using, fill the bottom hole (side with the hex) of the centering device with petroleum jelly. In addition to lubricating the device, in some cases, it will hold the broken screw in the extractor upon removal.

USING THE CLAW REAMER BUR WITH THE MANUAL CENTERING DEVICE



Fig.1

While holding the manual centering device firmly, insert the device (A) into the fixture and make sure that the hexagon is fully engaged into the implant fixture.



Insert the claw reamer bur (C) into positioner (B). Insert the bur into the centering device until it comes into contact with the broken screw. Rotate in a counter clockwise direction while maintaining constant downward pressure. After a few turns the notch in the bur should reappear. Manually remove the centering device which will contain the screw, if not it will remain inside the implant and can easily be removed with tweezers.



While applying pressure to the broken screw, start the motor in a COUNTER CLOCKWISE direction at a low RPM. After a few turns the notch in the bur should reappear. Manually remove the centering device which will contain the screw, if not it will remain inside the implant and can easily be removed with tweezers.

IMPORTANT: Please follow the instructions closely when using the Broken Screw Extractor Kit. Although the Reverse Cutting Bur has been hardened by a tempering process, it should always remain vertical (parallel with the screw hole) during the procedure to prevent breakage. The Reverse Cutting Bur and Claw Reamer Bur are subject to wear. These burs should be inspected for wear prior to each procedure and replaced if necessary. Finally, it is very important that the motor direction is set to COUNTER CLOCKWISE when using this kit.



In certain cases, it may be easier to use the claw reamer bur (C) with a contrangle handpiece. With the motor stopped, insert the claw reamer bur into the centering device (A) until the tip touches the broken screw.

