## **FEHLING** INSTRUMENTS

M 23 EN 3-09/18

### CERAMO® FERRIS-SMITH X and large jaw X rongeurs

### 1 Disassembly

Figure 1 shows an assembled FERRIS-SMITH X rongeur. The large jaw rongeurs are identical and differ only in the jaw. For assembly/disassembly relevant parts are:

- 1: rongeur body = shaft with fixed handle part
- 2: moving handle part
- 3. slider (connected with rongeur body through jaw hinge)
- 4. hexagon socket screw

Disassembly is done as follows:

For disassembly place the rongeur on a solid worktop. Unscrew the hexagon socket screw by turning it clockwise (see fig. 3) using the supplied screwdriver TXX-0X (see fig. 2; alternatively sterilizable screw driver TXW-9X) and remove it from the screw hole.

Figure 4: Pull the moving handle part downward and separate it from the rongeur body.

Figure 5: Pull slider towards the handle and thus release the guiding pins of the slider from the guide rail of the shaft.

Figure 6: Fold the slider upward. For reprocessing open the jaw completely and fold up the slider as far as there is no contact between slider and shaft.

**ATTENTION**: The slider is firmly connected to the shaft through the hinge of the jaw. Sliding the slider laterally in open position will result in deformation or breaking of the hinge.

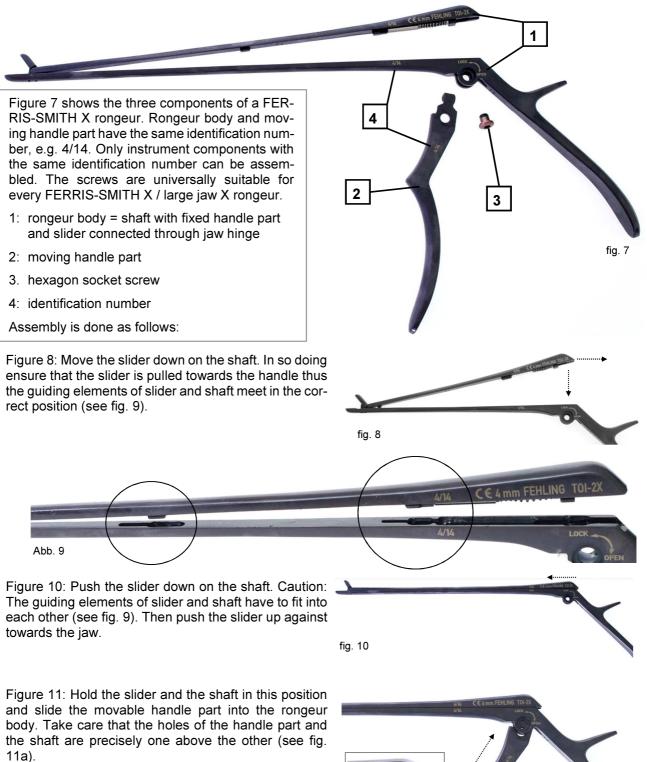


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ASSEMBLY INSTRUCTIONS

### 2 Assembly







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## **ASSEMBLY INSTRUCTIONS**

Figure 12: Then place the screw in the hole and use the screwdriver to turn it counterclockwise without using any force.



Finally check that the rongeur can be moved as intended. If this is the case, the assembly is terminated. Before sterilizing the rongeur, please moisten the proximal and distal hinge parts with an approved and appropriate instrument oil to ensure easy movement of the rongeur.

#### 3 Warning

Please observe the following to avoid damage to the hexagon socket screws:

The screws have a left-handed thread. So please absolutely observe the direction of rotation when screwing the screws in and out.

Do not use force when screwing the screws in and out. This is absolutely not necessary. Turning the screws by force damages the hexagon socket profile.

Please replace the screw or the screwdriver or have it replaced by the manufacturer immediately, when damage to the hexagon socket profile or the screwdriver profile are visible.

The screwdrivers TXX-0X can be cleaned using cold water and a mild cleaner. They are not suitable for cleaning in hot water and vapor sterilization at 134°C. Sterilizable screwdrivers for use in the operation theatre are available upon request.

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