

CERAMO® RICHTER X Rongeurs

WARNING: All components of the RICHTER X rongeur are very delicate. The components may get bent or break off if they are assembled or disassembled incorrectly. All assembly steps must be executed with special care and without applying any force.

1 Disassembly

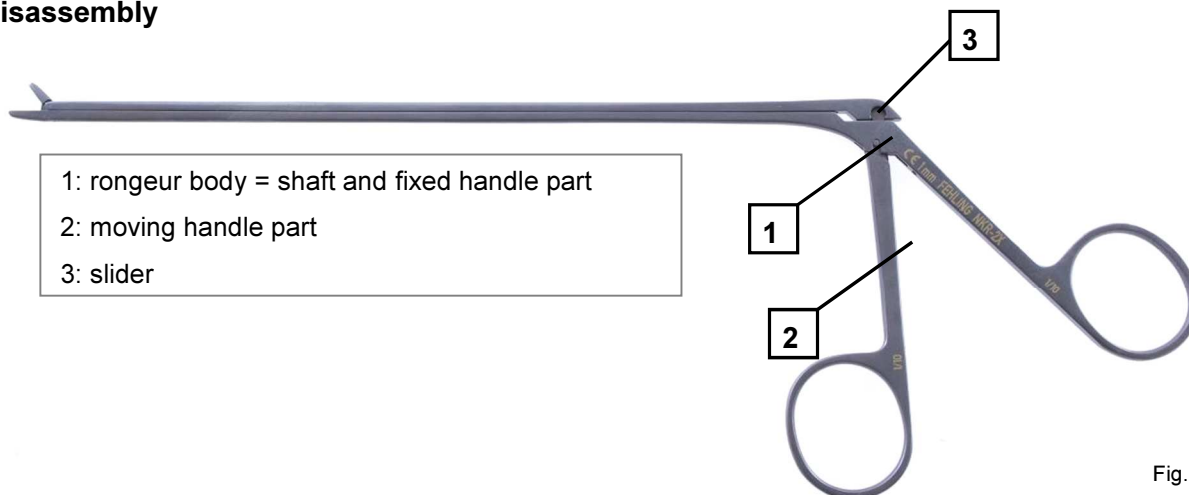


Fig. 1

Take the closed rongeur (mouth is closed) in both hands, as shown in figure 2, and cautiously push the slider out of the guiding axle using the thumb of the left hand.

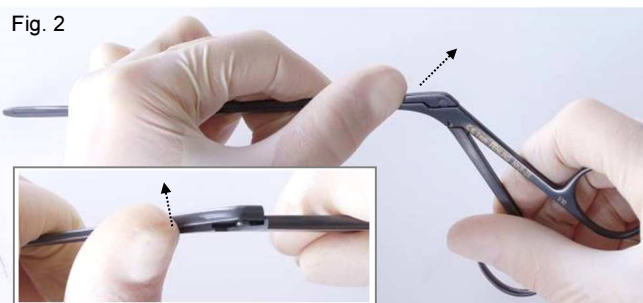


Fig. 2

Figure 3: Push the slider back so far that the guiding pin of the moving handle part (see white arrow) is released from its retainer in the slider.



Fig. 3

Figure 4: Let the slider slide upward and let it rest loose on the guiding pin of the moving handle part.



Fig. 4

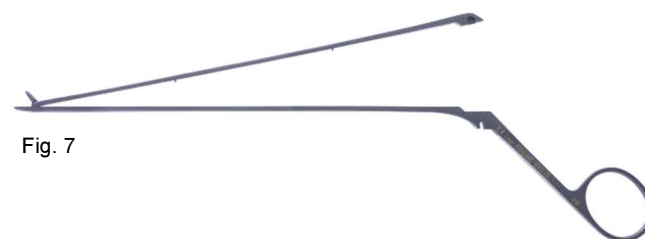
Figure 5: Pull the moving handle part downward out of the rongeur body.



Figure 6: Pull the slider towards the fixed handle part to the stop until the mouth is fully open. Then the connecting pins of the slider are pulled out of their retainers in the shaft, and thus the slider is freely movable within its axle.



Figure 7: Fold the slider upward to obtain enough space between the slider and the shaft. Clean the rongeur in this position. **ATTENTION:** The slider is firmly connected to the shaft through the hinge of the mouth. Sliding the slider laterally in open position will result in deformation or breaking of the hinge.



2 Assembly

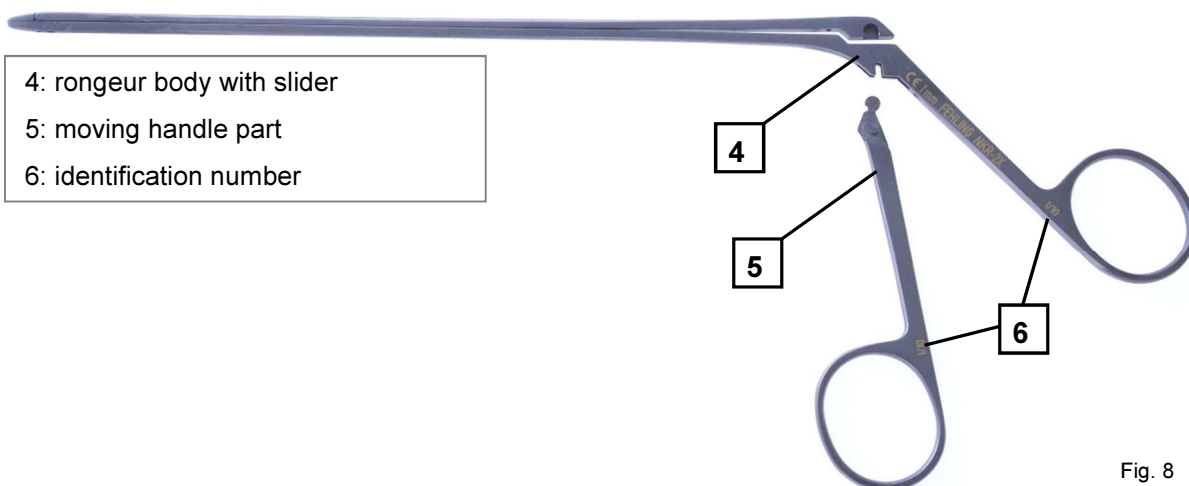


Figure 8 shows the two components of a RICHTER X rongeur: rongeur body and moving handle element. Each of the two components has the same identification number, e.g. 1/10. Only instrument components with the same identification number can be assembled. Assembly is done as follows:

Take the rongeur in both hands as shown in figure 9, and fold the slider down towards the shaft. At the same time, pull the slider towards the fixed handle part so that the mouth of the rongeur opens completely.

Fig. 9



Figure 10: Push the slider on the shaft. Attention: The guiding pins of the slider must enter into the corresponding retainer in the shaft (see figures 10 a and b). Then slide the slider towards the mouth to the stop – the mouth closes.

Fig. 10



Fig. 10 a



Fig. 10 b



Figure 11: Let the slider rest loose on the shaft and insert the moving handle element into the rongeur body from below until the limit pin of the moving handle part (see white arrow) hits in its retainer in the rongeur body.

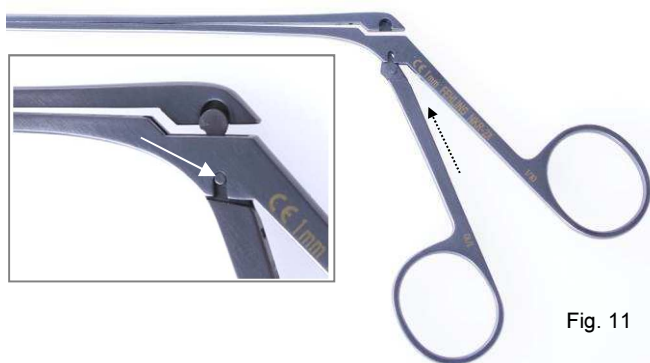


Fig. 11

Figure 12: Push the slider cautiously out of the guiding axle and move it down towards the shaft at the same time, until the guiding pin of the moving handle part is locked in its retainer in the slider.

Fig. 12



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 hinge parts and the slide faces with an approved and appropriate instrument oil to ensure easy movement of the rongeur.