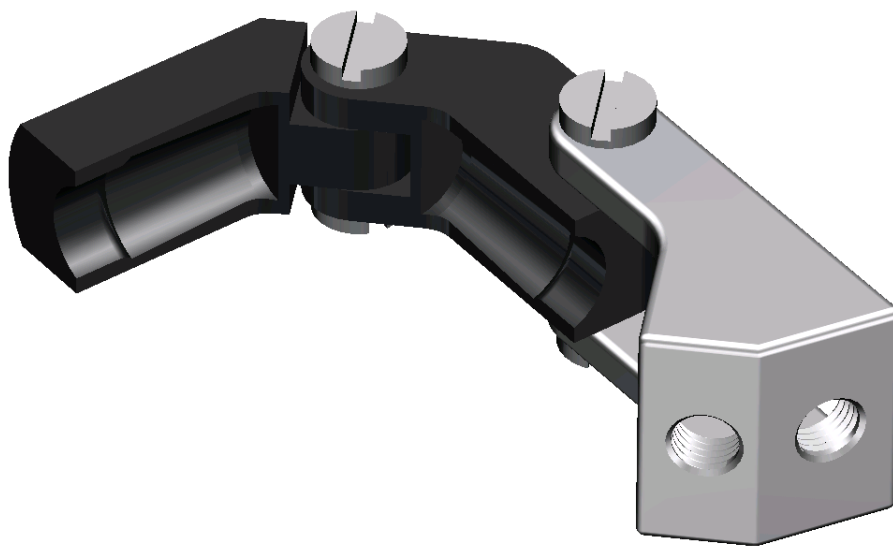


Stem-repositioner

Instructions for Use



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INTRODUCTION AND PRODUCT DESCRIPTION

The reduction instruments are a set of tools for the intraoperative removal of hip stems whenever a correction of the initial position is required. The instruments are supplied with the different instrument sets for hip stems or are optionally available. The *Stem-repositioner* is the core element (Figure 1). It provides for a connection between the hip stem and the various connecting elements. During removal operations, the stem cone is protected effectively against damage by means of plastic jaws.

The reduction is performed with the *Stem-repositioner* for the 12/14 cone. The *Stem-repositioner* is designed such that a variety of rasp handles or an extraction rod with a striking weight can be used. Two threaded holes in a U-shaped angle enable the surgeon to strike out the stem in the direction of the axis.

Caution:

The *Stem-repositioner* must not be used for explantations of hip stems, as this harbours the risk of breaking the plastic jaws!

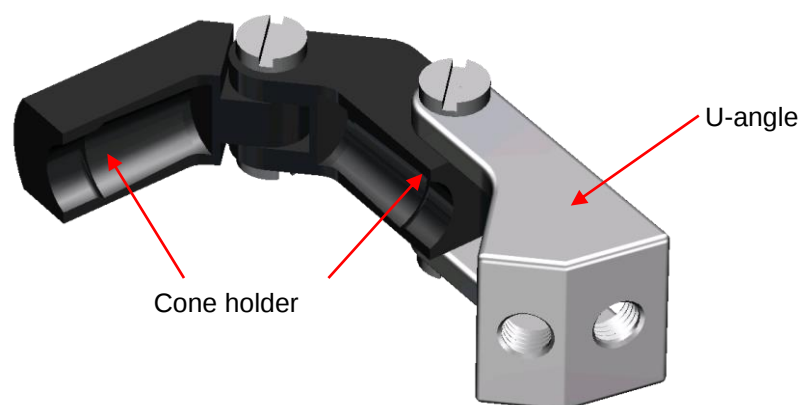


Figure 1: Stem-repositioner

The *Stem-repositioner* is suitable for all stem systems with a 12/14 cone and can be combined with different handles.

INSTRUCTIONS FOR USE

Stem-repositioner with hip stem

The *Stem-repositioner* is designed such that it can be used with a variety of stem systems and the different sizes of hip implants. Before using a handle/extraction rod, always attach the *Stem-repositioner* to the hip stem cone first:

- Fold the *Stem-repositioner* as shown in Figure 2.
- Position the *Stem-repositioner* above the cone of the hip stem and check whether the stem cone is grasped sufficiently when the plastic jaws are pushed together.



Figure 2: Stem-repositioner and hip stem

Stem-repositioner with Extractor Bar M8

Note:

Before use the tread has to be moistened using ultra pure water.

- Taking into account the axis of the stem, screw the *Extractor Bar M8* into one of the two drill-holes of the *Stem-repositioner* until the cone is firmly in position (Figure 3).

Note:

The axis of the Extractor Bar M8 and of the hip stem should be more or less aligned in the same direction.

- Connect the *Modular Weight* to the *Extractor Bar M8* (Figure 4).

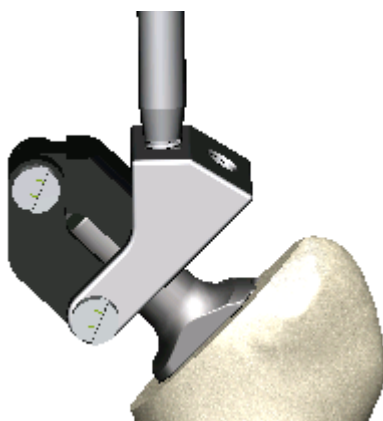


Figure 3: Stem-repositioner with screwed-in Extractor Bar M8 (detailed view)

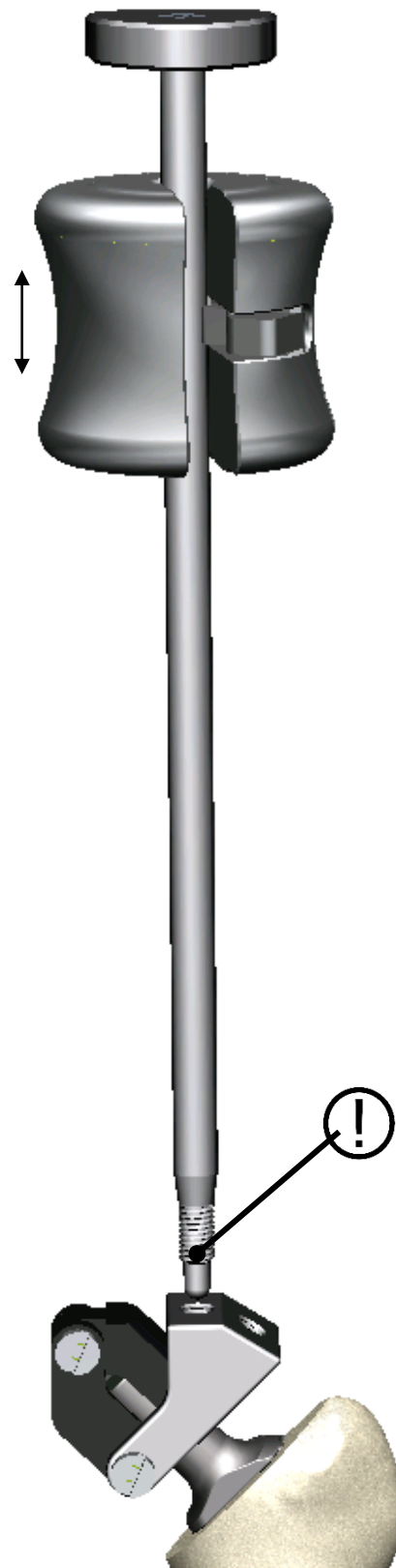


Figure 4: Stem-repositioner with Extractor Bar M8 and Modular Weight in necessary alignment to the implant

Stem-repositioner with Rasp Handle Standard Hook Coupling and Handle Adapter Hook Coupling

- Taking into account the axis of the stem, screw the *Handle Adapter Hook Coupling* into one of the two drill-holes of the *Stem-repositioner* until the cone is firmly in position (Figure 5).
- Connect the *Rasp Handle Standard Hook Coupling* to the *Handle Adapter Hook Coupling* (Figure 5 and Figure 6).

Note:

Before use the tread has to be moistened using ultra pure water.

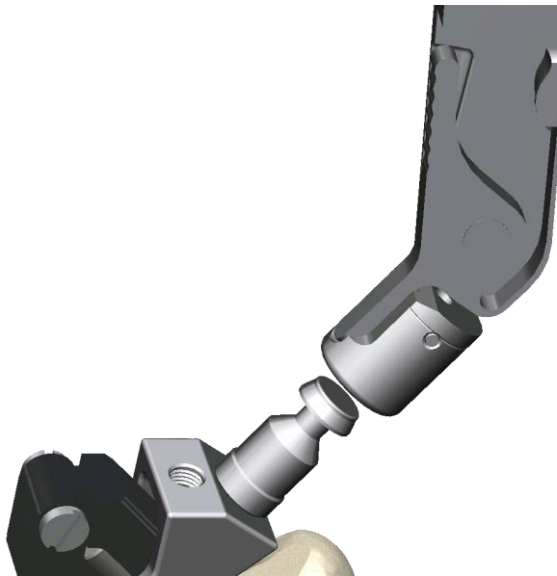


Figure 5: Stem-repositioner with screwed-in Handle Adapter Hook Coupling and Rasp Handle Standard Hook Coupling (detailed view)

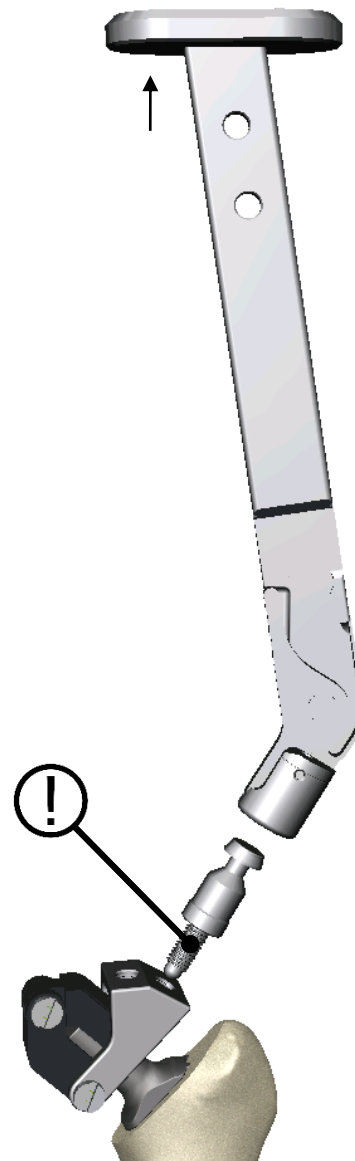


Figure 6: Stem-repositioner with Rasp Handle Standard Hook Coupling and Handle Adapter Hook Coupling in necessary alignment to the implant

Stem-repositioner with Rasp Handle bended dismantable and Handle Adapter Cylinder Coupling

Cylinder Coupling

- Taking into account the axis of the stem, screw the *Handle Adapter Cylinder Coupling* into one of the two drill-holes of the *Stem-repositioner* until the cone is firmly in position (Figure 7).
- Connect the *Rasp Handle bended dismantable* to the *Handle Adapter Cylinder Coupling* (Figure 7 and Figure 8).

Note:

Before use the tread has to be moistened using ultra pure water.

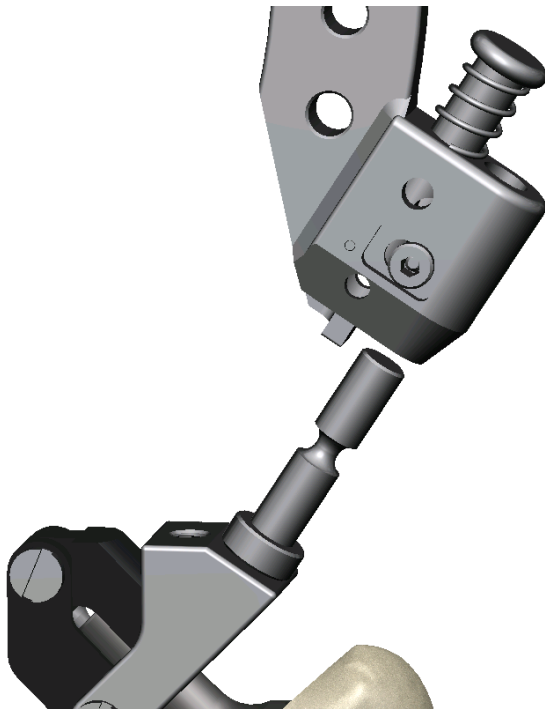


Figure 7: Stem-repositioner with screwed-in Handle Adapter Cylinder Coupling and Rasp Handle bended dismantable (detailed view)

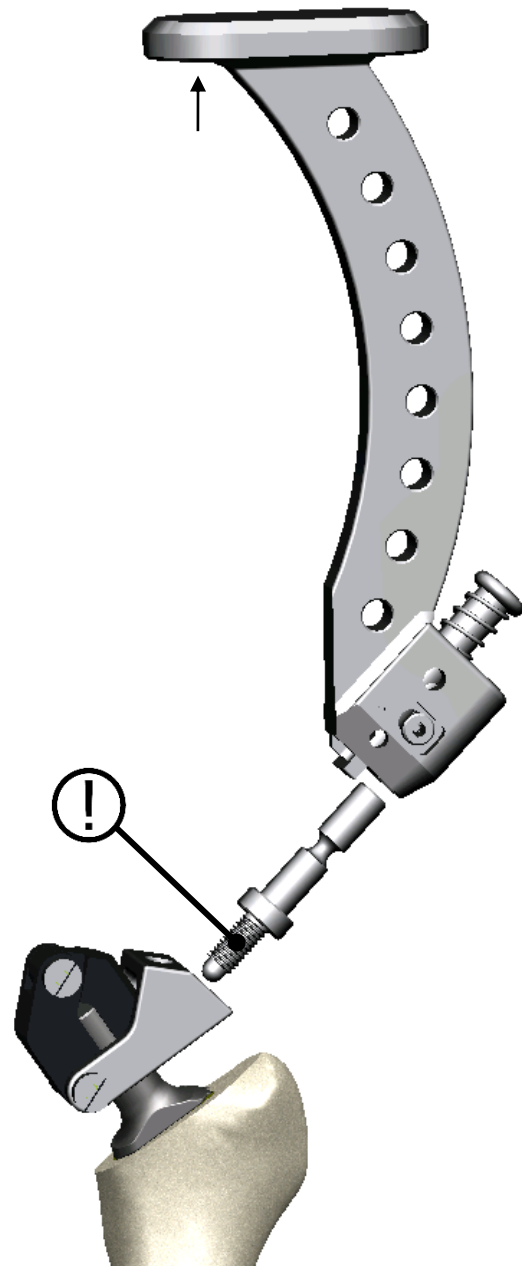


Figure 8: Stem-repositioner with Rasp Handle bended dismantable and Handle Adapter Cylinder Coupling in necessary alignment to the implant

Stem-repositioner to the Rasp handle straight and Adapter modular

- Taking into account the axis of the stem, screw the *Screw for Adapter modular* into one of the two drill-holes of the *Stem-repositioner* until the cone is firmly in position (Figure 9). Connect the *Extraction Piece for Adapter modular* with the *Screw for Adapter modular* (Figure 11).
- Connect the *Rasp handle straight* with the *Adapter modular* (Figure 9 and Figure 10).

Note:

Before use the tread has to be moistened using ultra pure water.

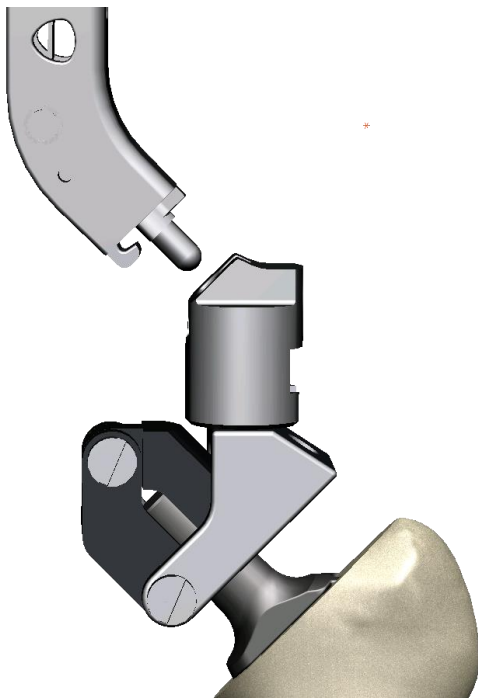


Figure 9: Stem-repositioner with mounted Adapter modular and Rasp handle straight (detailed view)



Figure 10: Stem-repositioner with Rasp handle straight and Adapter modular in necessary alignment to the implant

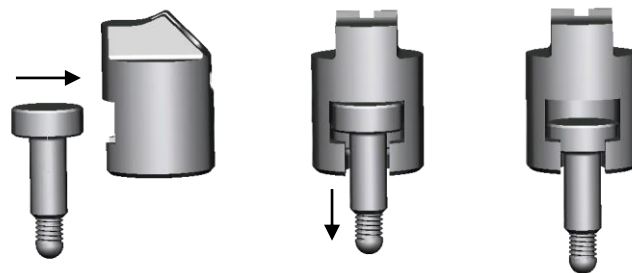


Figure 11: Connection of the Screw for Adapter modular with the Extraction Piece for Adapter modular

Using the Stem-repositioner

Loosen the implant with moderate hammer blows against the impact plate of the rasp handles or with moderate blows with the aid of the *Modular Weight* against the impact plate of the *Extractor Bar M8* along the femoral axis in the direction of the body centre and remove it from the implantat bed in the same direction. After that, continue the usual surgical routine.

STEM REDUCTION INSTRUMENTS



Figure 12: Stem reduction instruments

No.	Instrument	Art. no.
1	Stem-repositioner	506-073
2	Extractor Bar M8, L=430mm	367-1250
3	Modular Weight	506-2107
4	Rasp Handle Standard Hook Coupling Length 260 mm	367-154
5	Handle Adapter Hook Coupling for Stem Extractor	506-075
6	Rasp Handle bended dismantable Length 200 mm	506-013
7	Handle Adapter Cylinder Coupling for Stem Extractor	506-074
8	Rasp handle straight L=253mm	271-321
9	Extraction Piece for Adapter modular	367-1300 II/II
10	Screw for Adapter modular	367-1300 I/II

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