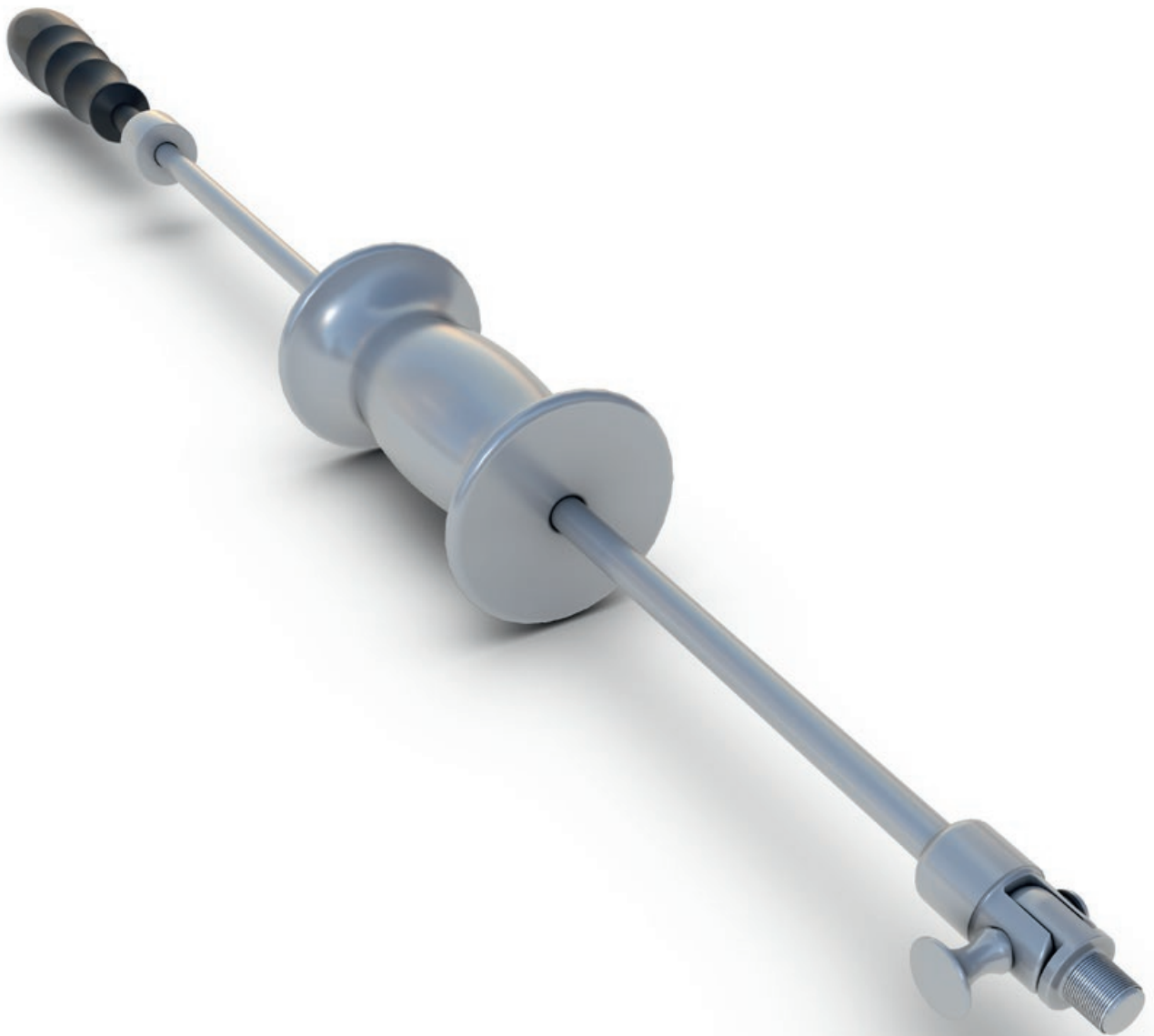


Slap Hammer

IMPLANT REMOVAL SET



SURGICAL TECHNIQUE



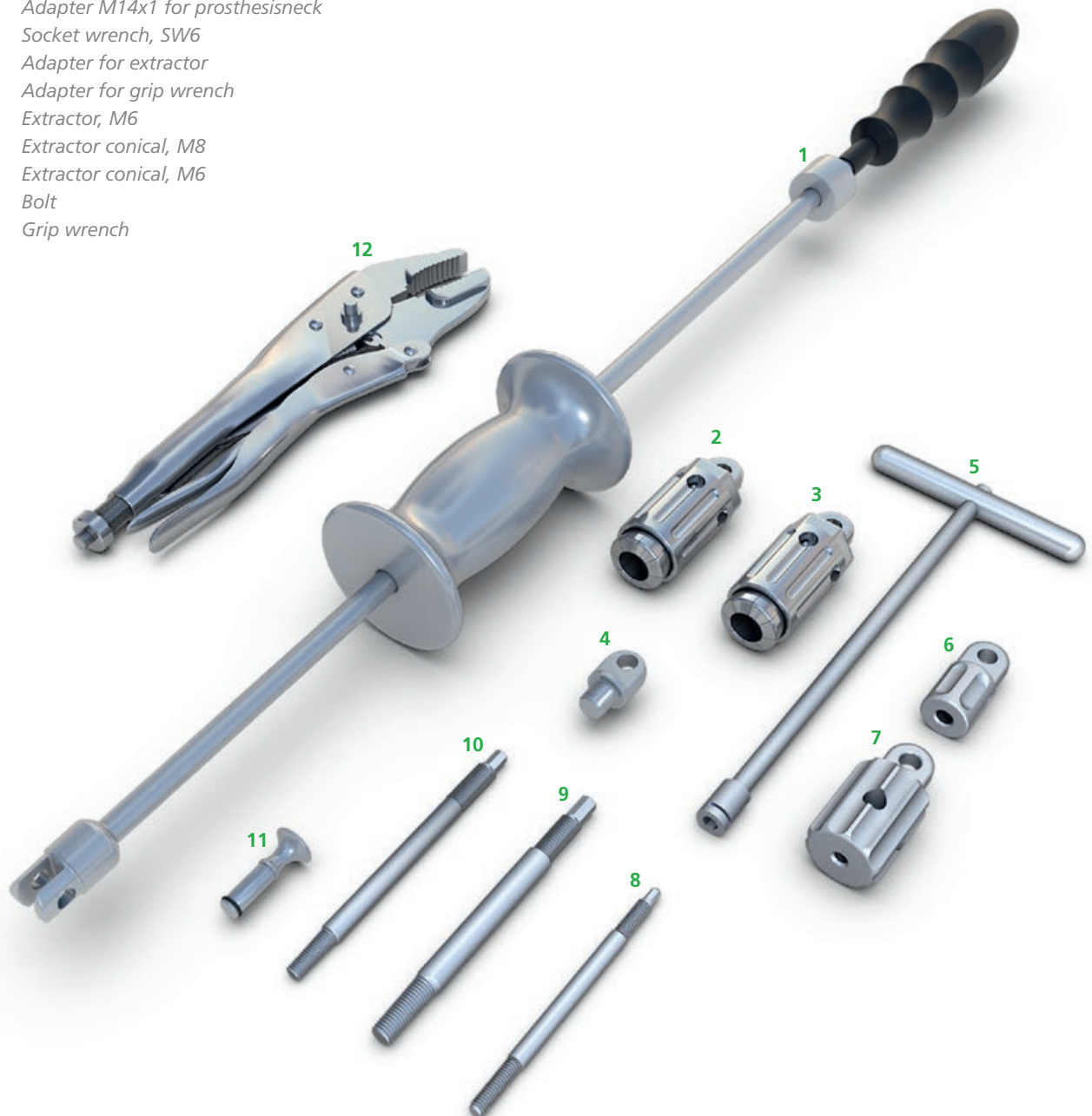
PETER BREHM
Die Präzision in Titan
für den Menschen

Removing implants with the slap hammer

The implant removal set must be ordered separately as it is not included in the standard instrumentation set.

Components for removing the implant

- 1 Slap hammer
- 2 Chucking forceps 12/14 for prosthesis extractor, knurled nut for prosthesis extractor
- 3 Chucking forceps 14 / 16 for prosthesis extractor, knurled nut for prosthesis extractor
- 4 Adapter M14x1 for prosthesisneck
- 5 Socket wrench, SW6
- 6 Adapter for extractor
- 7 Adapter for grip wrench
- 8 Extractor, M6
- 9 Extractor conical, M8
- 10 Extractor conical, M6
- 11 Bolt
- 12 Grip wrench



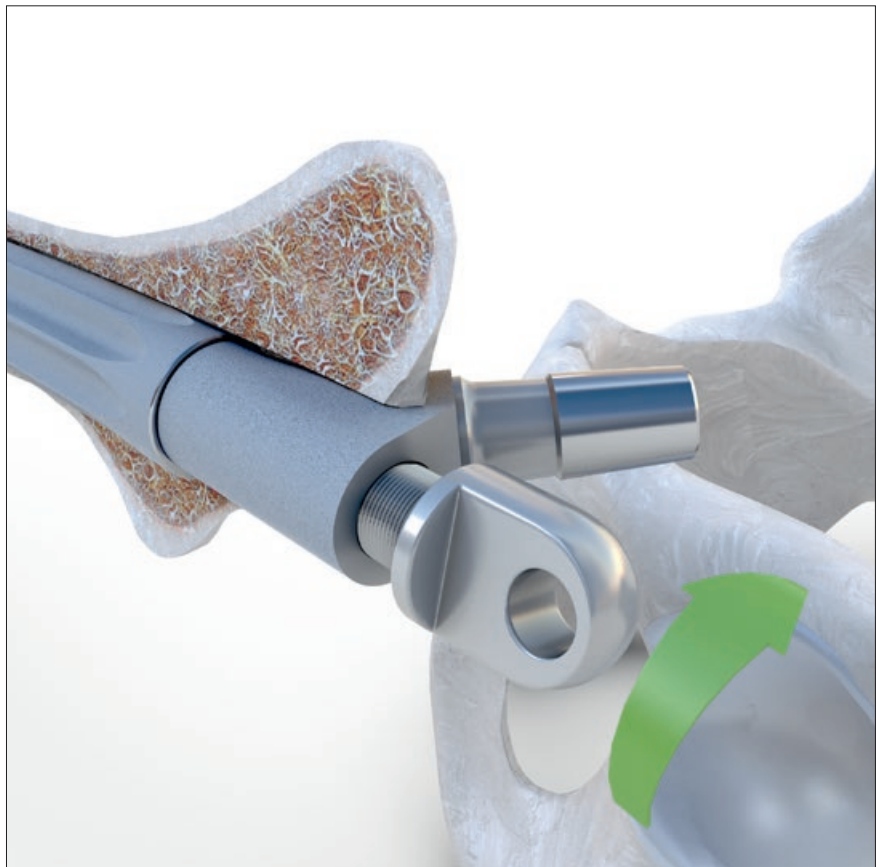
Removal of the MRP-TITAN

Removal with adapter M14x1 for prosthesisneck

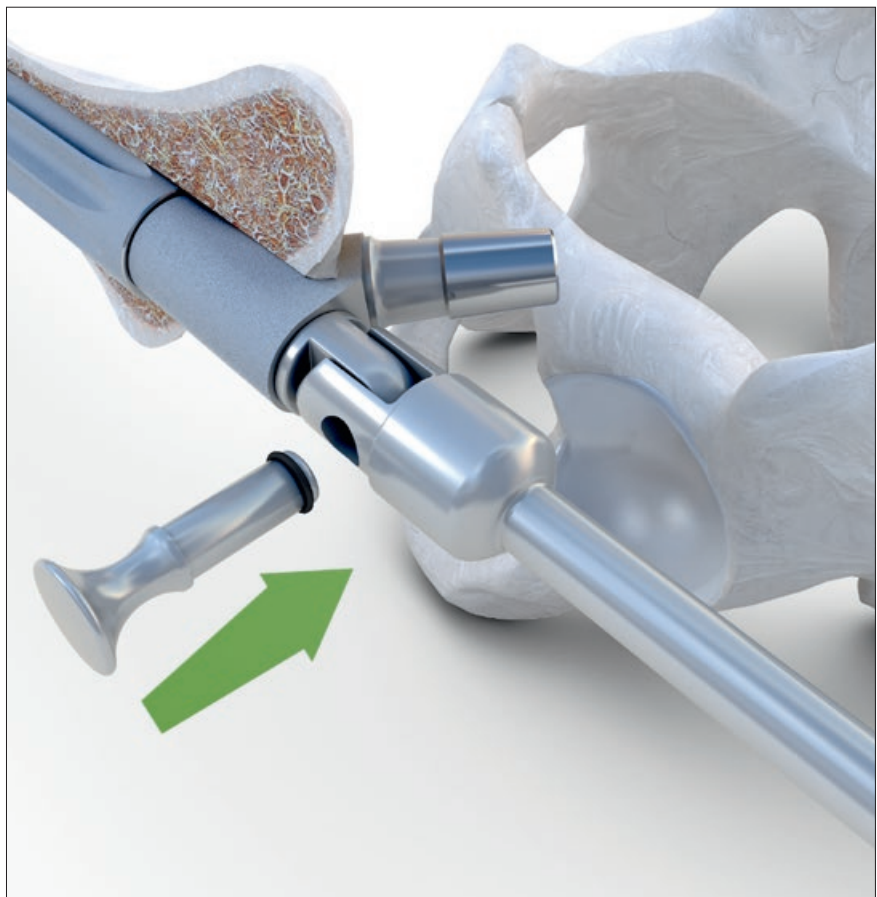
Before the *slap hammer* can be connected, the *adapter M14x1 for prosthesisneck* must be screwed into the neck section.

! NOTE

Remove the sealing screw M14x1 and screw M6 first. Use the *counter holder* and the *allen key SW5* for this.



Then the *adapter M14x1 for prosthesisneck* and the *slap hammer* are connected with the *bolt*.



Removal of the MRP-TITAN

The implant is extracted by sliding the head of the *slap hammer*.

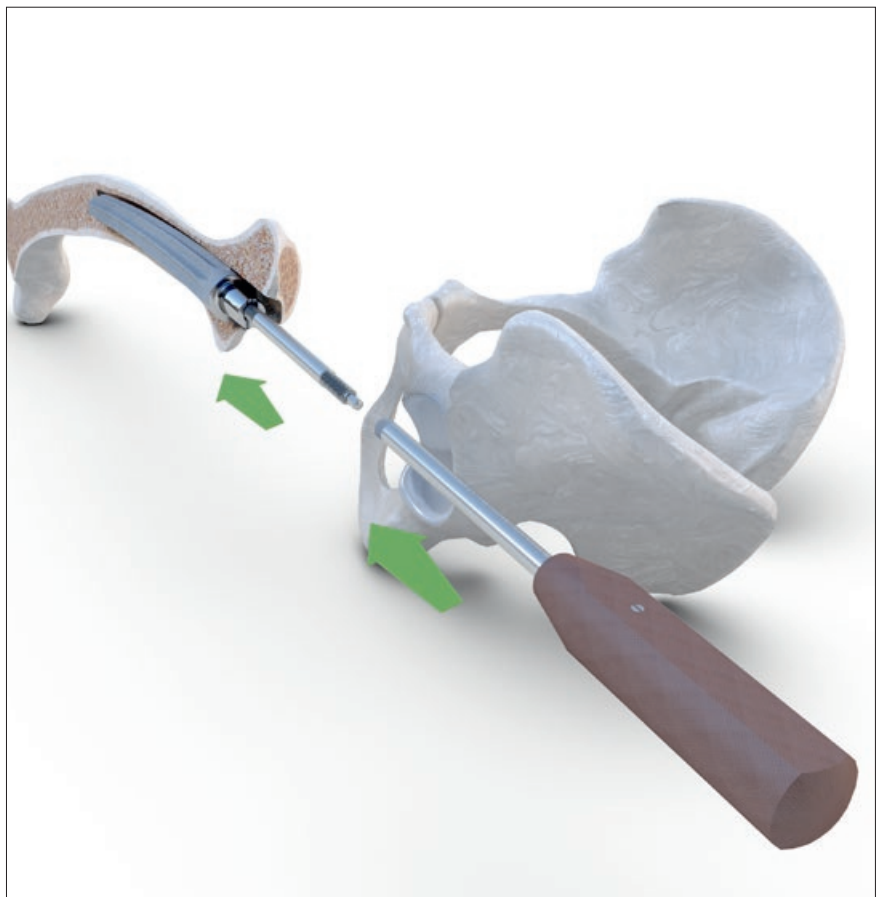
! NOTE

Always hold the *slap hammer* along the axis of force.

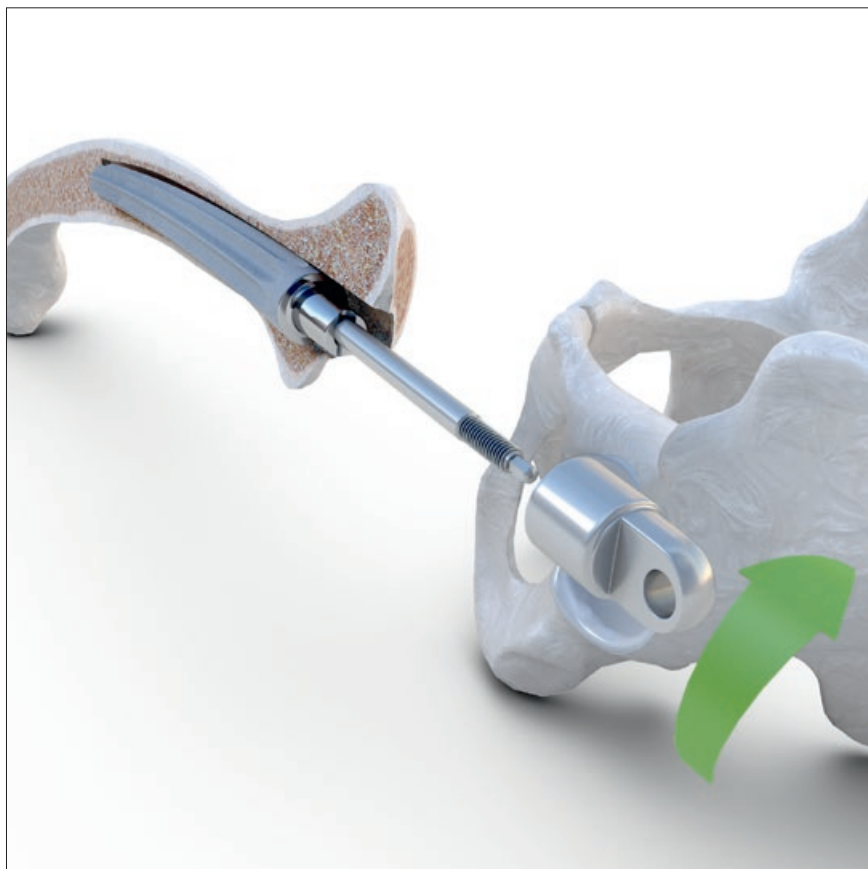


Removal with the extractor M6

To remove the stem, the *extractor M6* is screwed into the stem.



The *adapter for extractor* is mounted on the *extractor M6*.



Then the *slap hammer* is connected to the *adapter for extractor* and the stem is extracted.



Removal of the KAM-TITAN

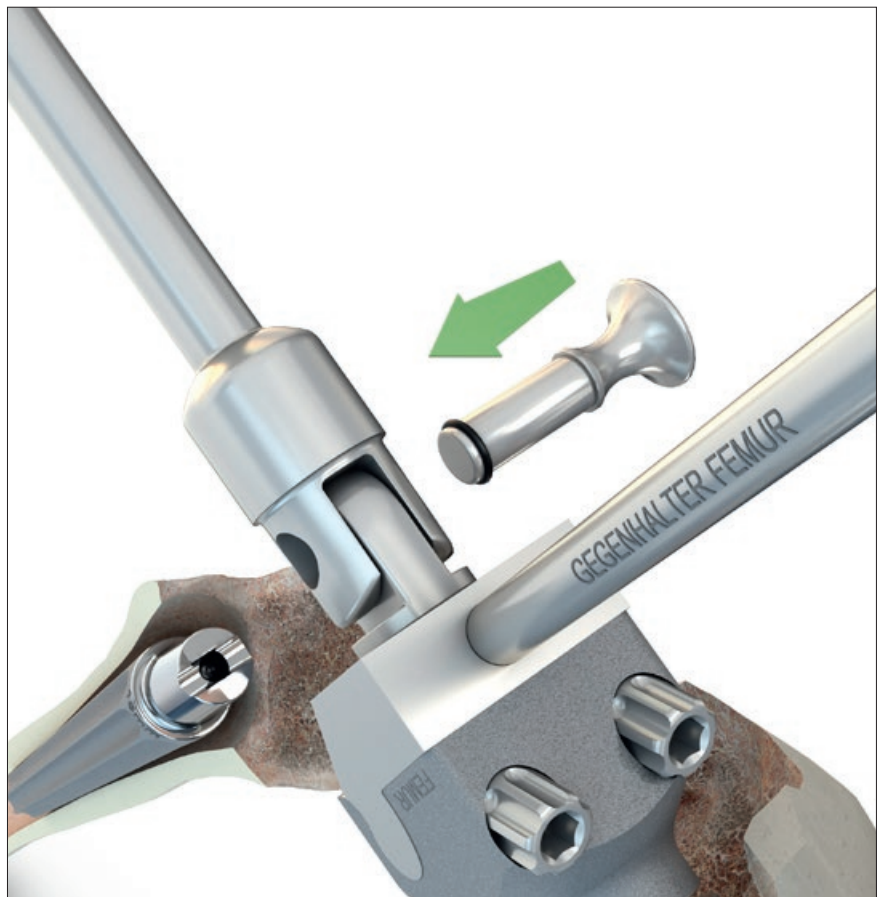
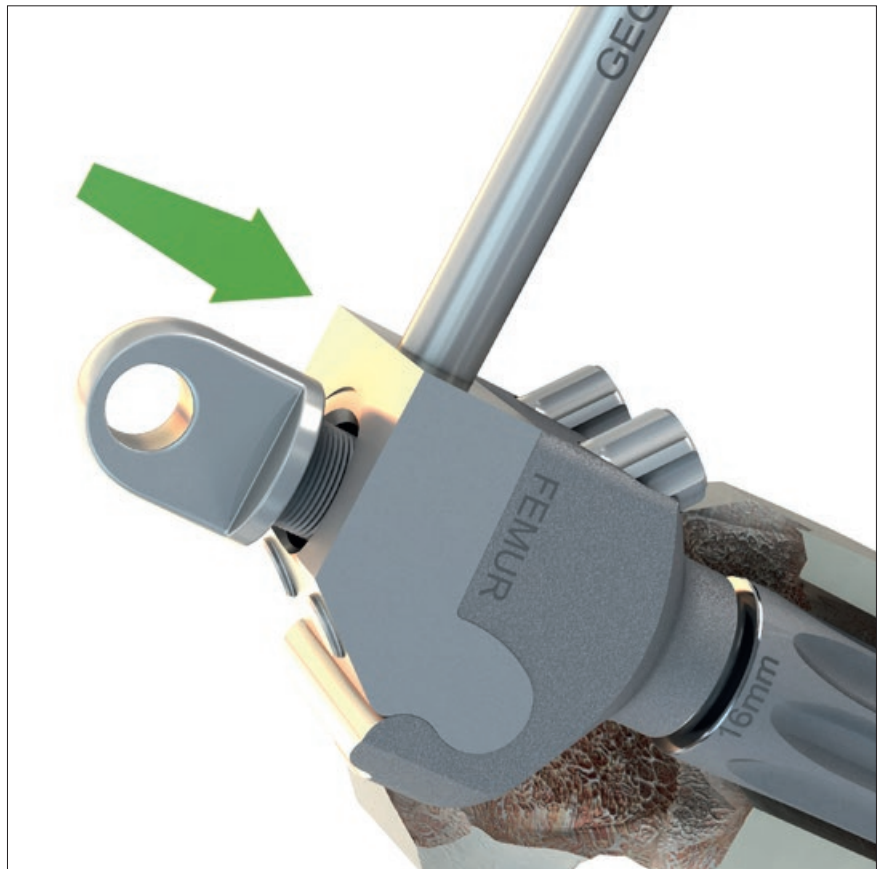
Removal with adapter M14x1 for prosthesisneck

The femoral and tibial components of the KAM-TITAN system can also be extracted as assemblies without first separating the arthrodesis components. The *slap hammer* can be used for this purpose. Before the *slap hammer* can be connected, the appropriate *femoral or tibial counter holder* must be attached and the *adapter M14x1 for prosthesisneck* must be screwed into it.

! NOTE

Always remove the screws M6 first. The appropriate *counter holder* is attached to the arthrodesis component with the bolts. Next the screws are removed with the *allen key SW5* and the *tommy bar for socket head wrench SW6*.

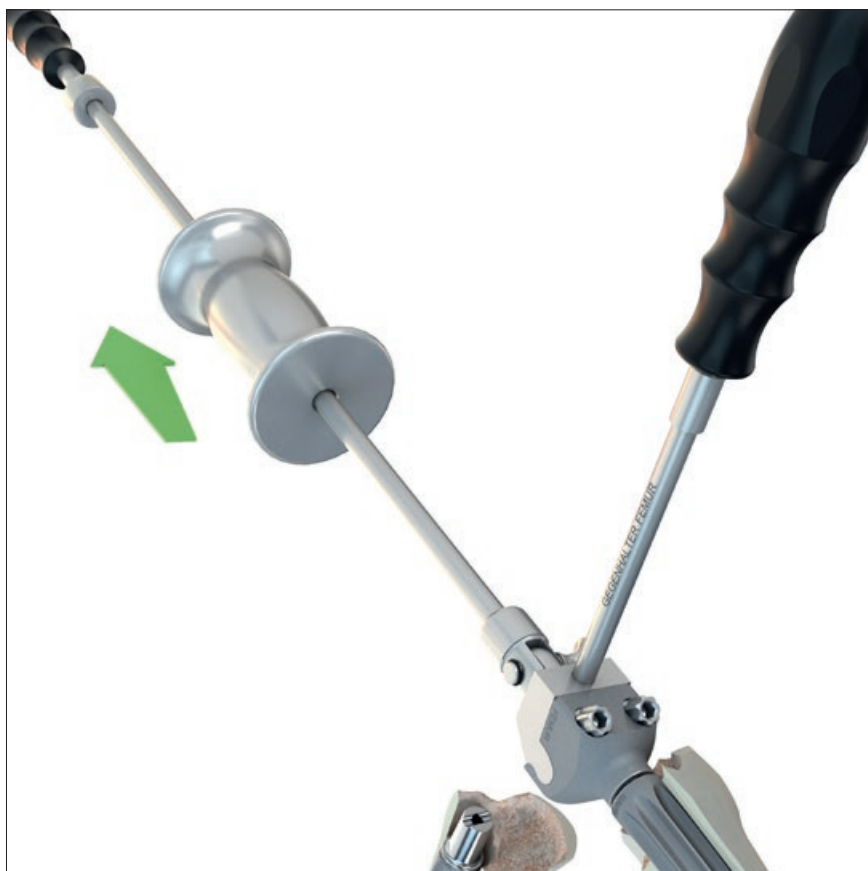
Then the *adapter M14x1 for prosthesisneck* and the *slap hammer* are connected with the *bolt*.



The module is extracted by sliding the head of the *slap hammer*.

! NOTE

Always hold the *slap hammer* along the axis of force.



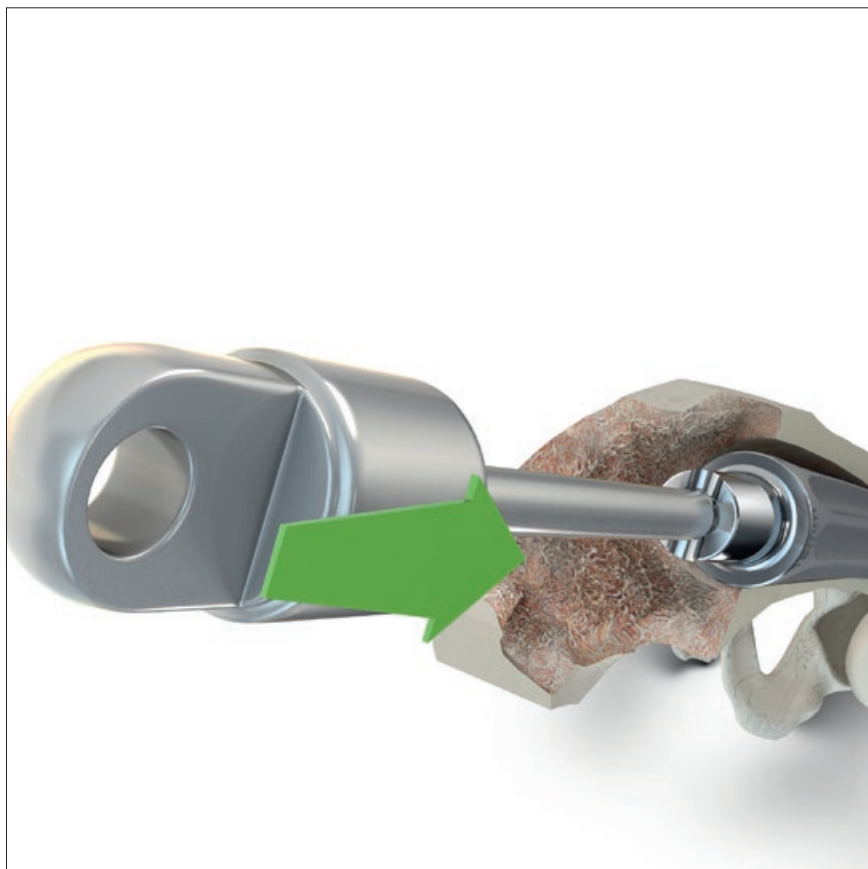
Removal with the extractor M6

To remove the implant stem, the *extractor M6* is screwed into the taper.



Removal of the KAM-TITAN

The *adapter for extractor* is mounted on the *extractor M6*.



After the *slap hammer* has been connected to the *adapter for extractor* the stem is extracted.

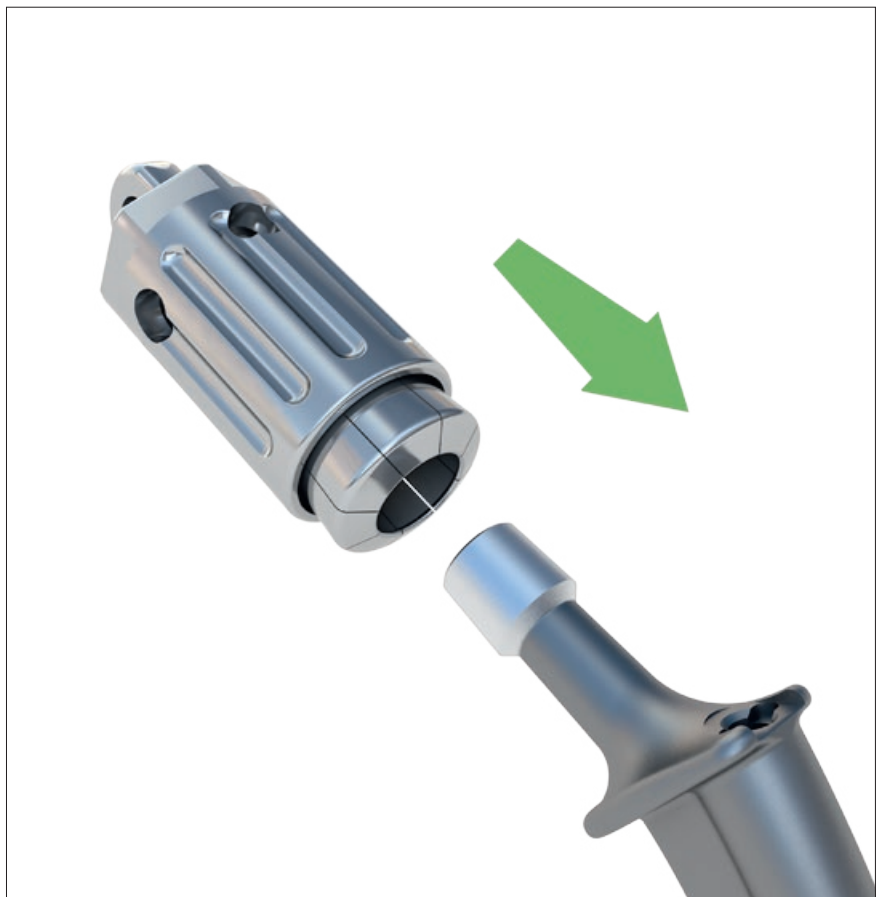


Removal of a Monoblock Implant with 12/14 and 14/16 Taper

Before the *slap hammer* can be connected, the *chucking forceps* 12/14 or 14/16 for prosthesis extractor with the *knurled nut for prosthesis extractor* must first be assembled.



Then the *instrument* (12/14 or 14/16) is slid over the taper of the implant.



Removal of a Monoblock Implant with 12/14 and 14/16 Taper

The *socket head wrench SW3,5* length 300 mm and the *socket wrench SW3,5* are used to create a stable load-bearing connection between the implant and the *chucking forceps 12/14* or *14/16* for prosthesis extractor.

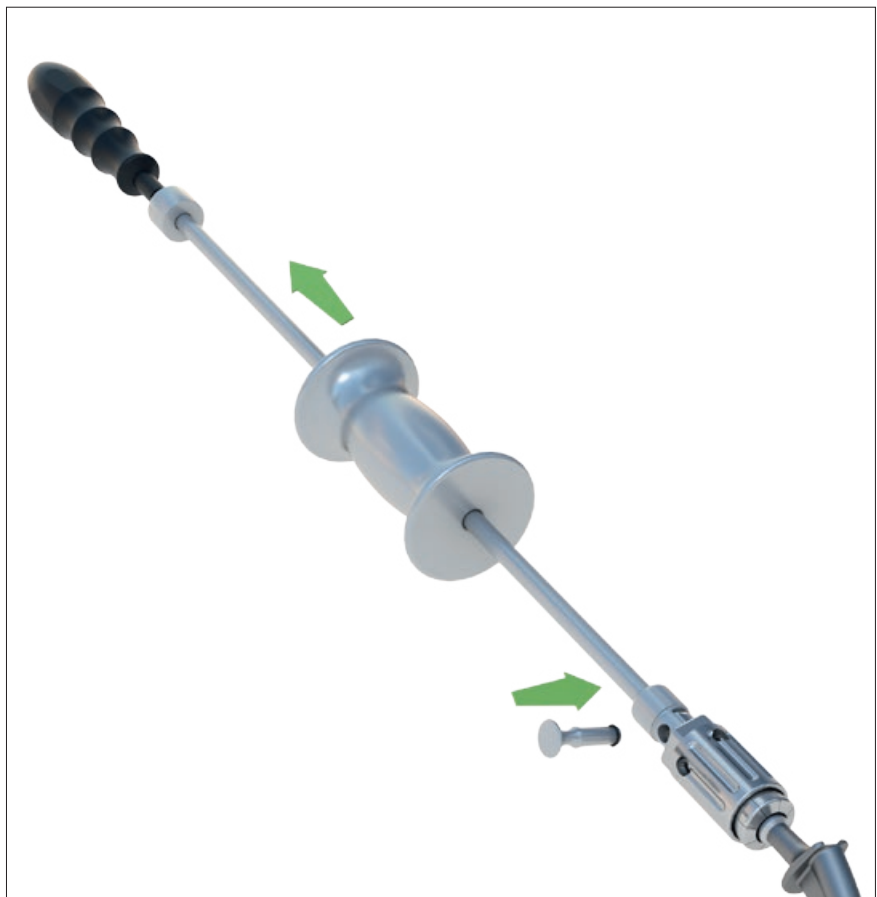


Then the *chucking forceps 12/14* or *14/16* for prosthesis extractor and the *slap hammer* are connected with the bolt.

The module is extracted by sliding the head of the *slap hammer*.

! NOTE

Always hold the *slap hammer* along the axis of force.

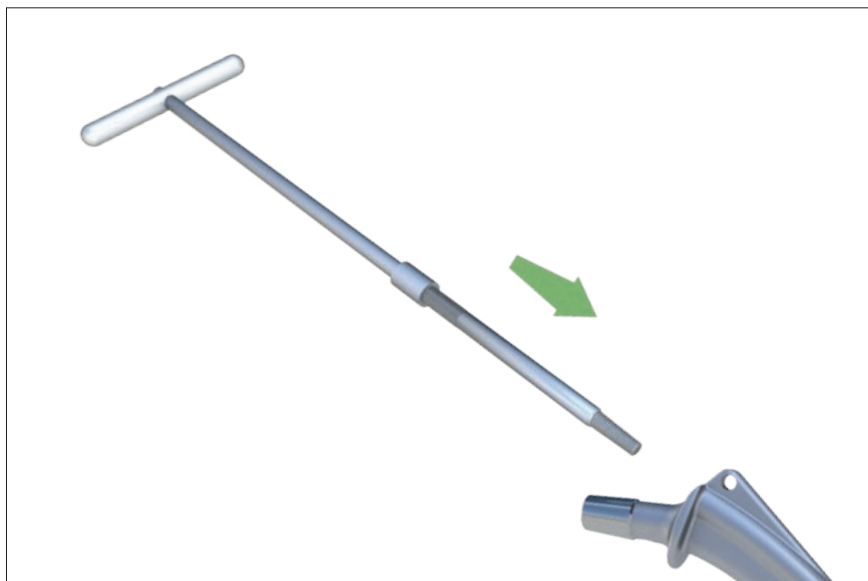


Removal of a Drilled Implant

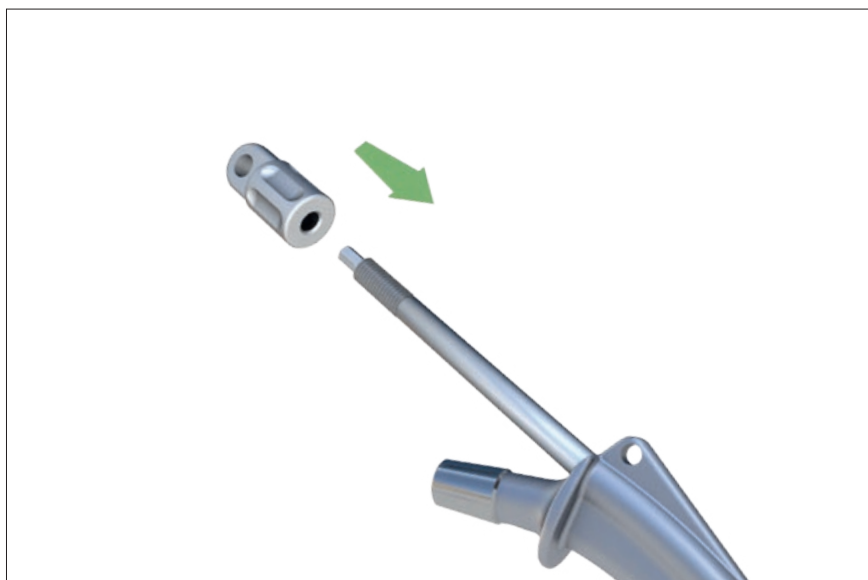
To remove the stem, the *tapered threaded rod M6 or M8* is screwed into the hole drilled in the stem using the *socket wrench SW6*.

For the *tapered threaded rod M6* the optimum drill hole diameter is 5 mm.

For the *tapered threaded rod M8* the optimum pipe diameter is 6,8 mm.



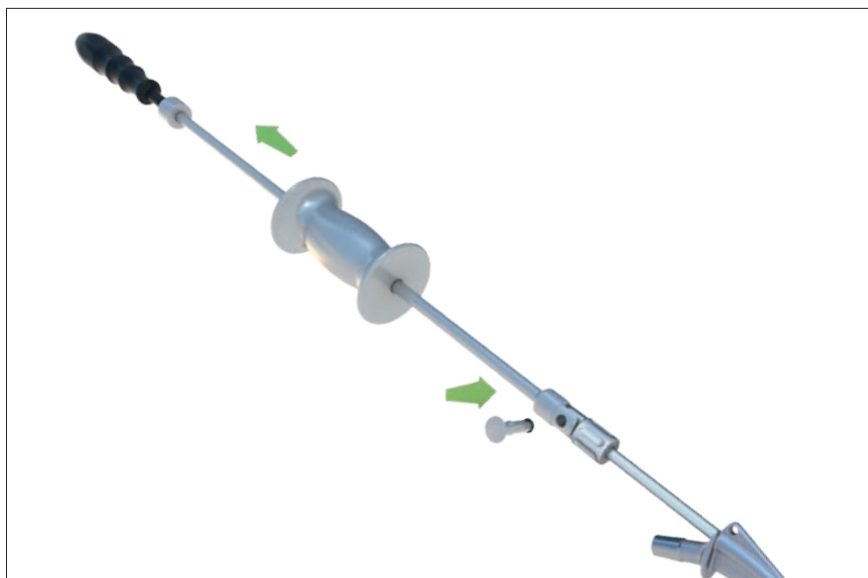
The *adapter for extractor* is mounted on the *tapered threaded rod M6 or M8*.



After the *slap hammer* has been connected to the *adapter for extractor* the stem is extracted.

! NOTE

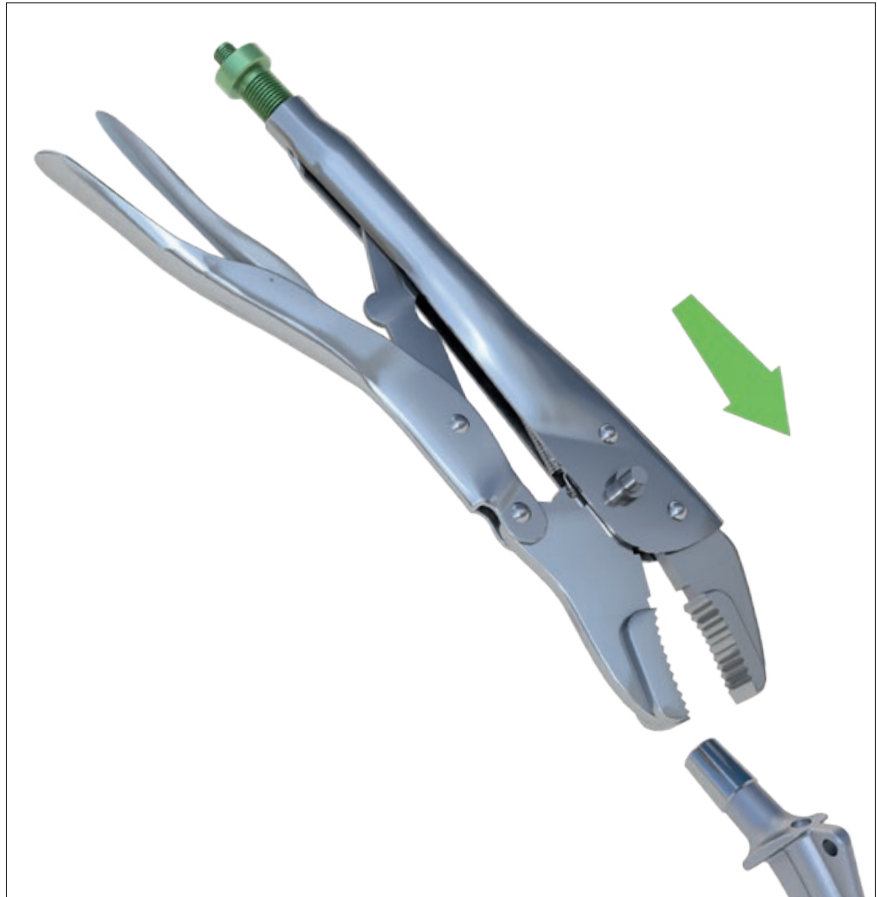
Always hold the *slap hammer* along the axis of force.



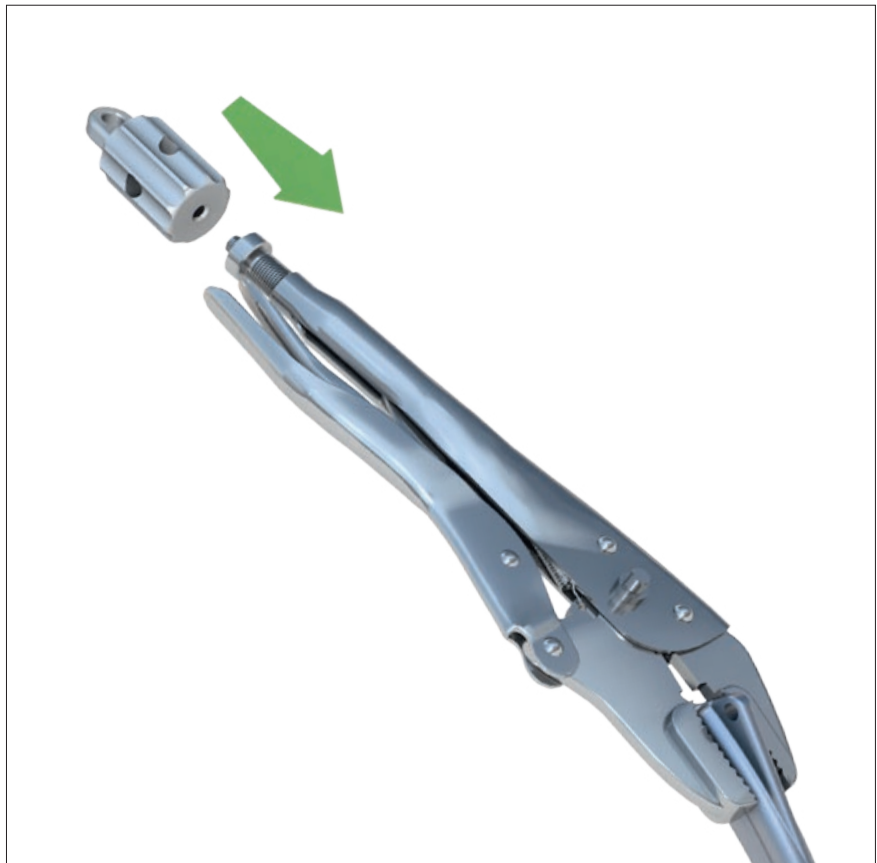
Grip wrench

The jaw spacing of the *grip wrench* is adjusted to fit the implant and locked using a *set screw*. The lever mechanism achieves a very high clamping force.

Lock the *grip wrench* in the desired position.



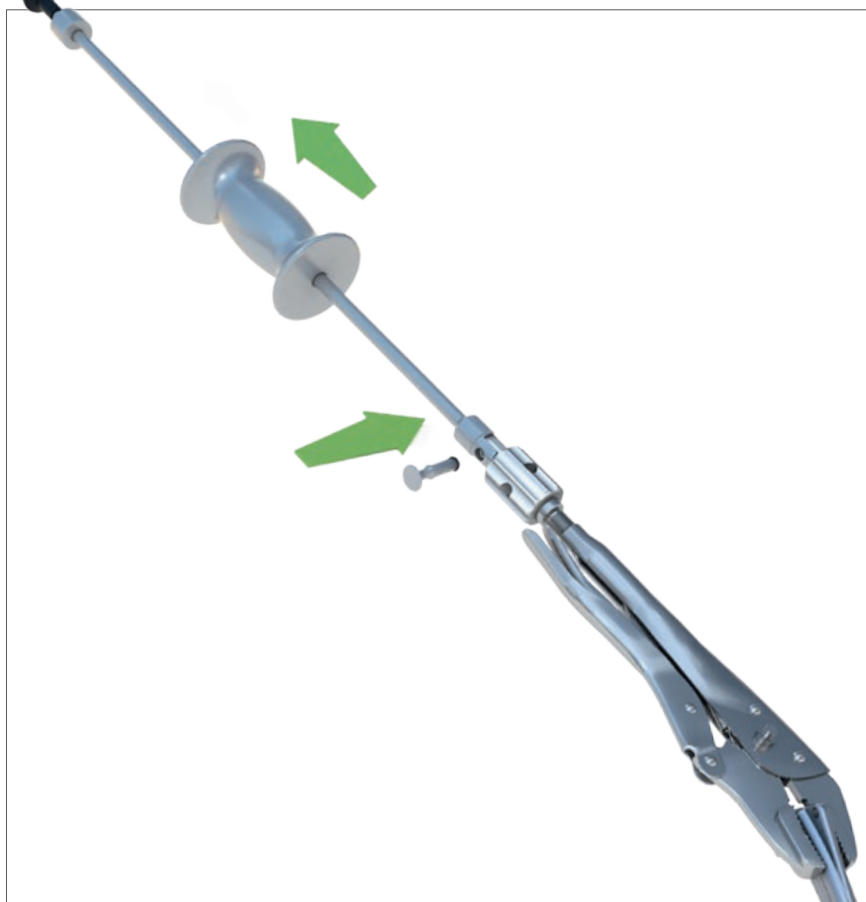
The *adapter for grip wrench* is mounted on the set screw of the *grip wrench*.



After the *slap hammer* has been connected to the *adapter for grip wrench* the stem is extracted. The *grip wrench* is released by pressing the lever.

! NOTE

Always hold the *slap hammer* along the axis of force.



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing. There are no margins, text, or other markings on the page.

! NOTE

This brochure is intended for physicians only and is not suitable as a source of information for lay persons. The information about the products and/or procedures described in this brochure is of a general nature and does not represent the advice or recommendation of a physician. The information provided here does not in any way represent an opinion on the diagnosis or treatment of any specific medical case. The respective patient must be examined individually and advised accordingly. This brochure can neither completely nor partially substitute these measures.

The information contained in this brochure has been produced and compiled by medical experts and qualified PETER BREHM employees to the best of their knowledge. The greatest possible care has been taken to ensure that the information provided is correct and comprehensible.



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Die Präzision in Titan
für den Menschen

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