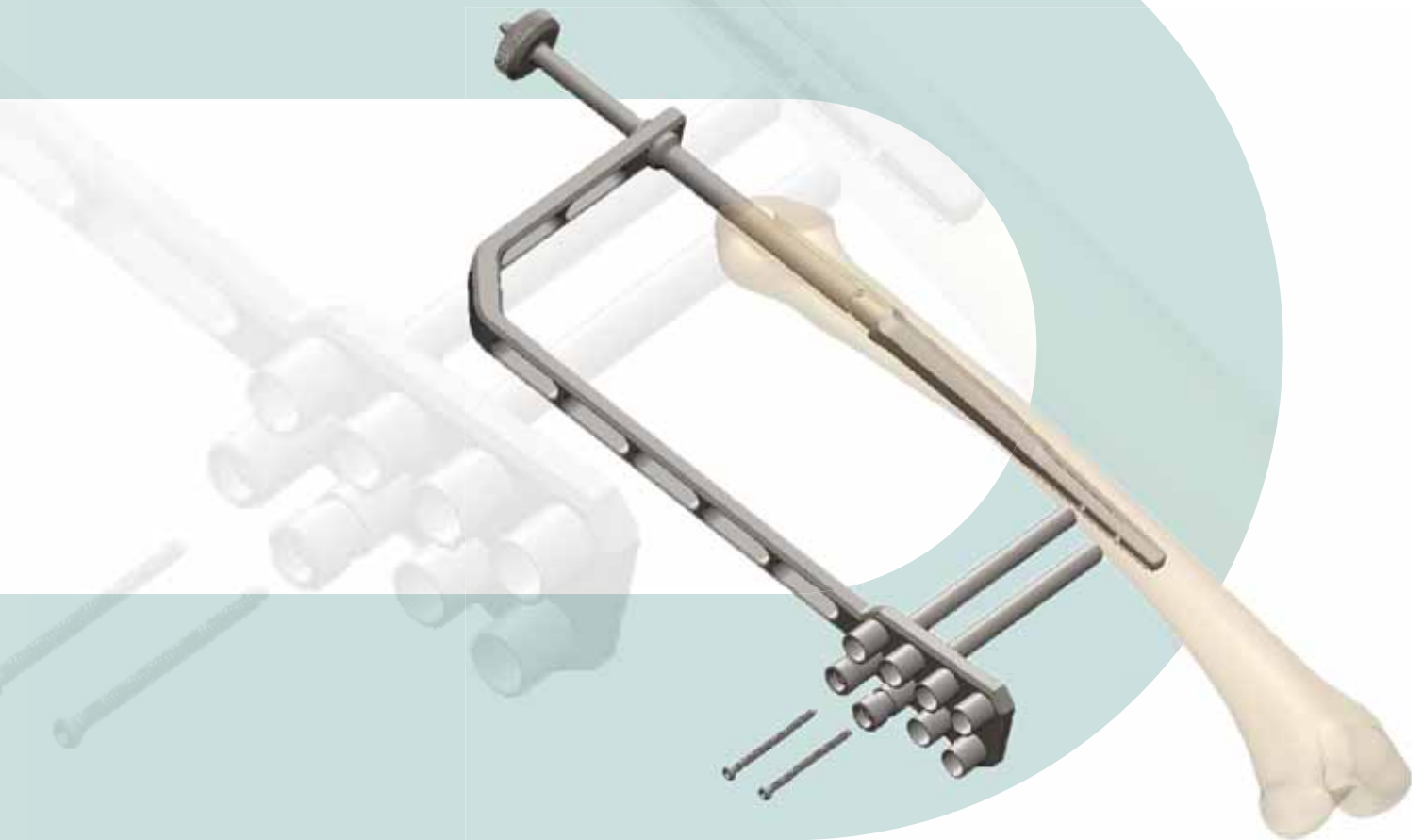


# MUTARS<sup>®</sup> RS

## Positioning instrument

Additional surgical technique





# MUTARS® RS


## Positioning instrument

### Additional surgical technique

MUTARS® was developed in collaboration with Prof. Dr. W. Winkelmann (former director) and Prof. Dr. G. Gosheger (Director) of the Poliklinik für Allgemeine Orthopädie und Tumororthopädie (Polyclinic for General Orthopedics and Tumor Orthopedics) at the Münster University Hospital, Germany. MUTARS® has successfully been in clinical use since 1992.

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 **Note:** The surgical technique described herein reflects the author's suggested treatment in straightforward interventions. Ultimately, however, the surgeon must decide which procedure is most appropriate and effective for the patient in question. The treatment described must be performed in accordance with the current state of the art. The instruments shown and described with the catalog number in the surgical technique refer to an example size. Further sizes and instrument variants can be found in the appendix to the surgical technique.

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# Surgical technique

Note: The surgical steps shown here are meant to supplement the MUTARS® RS surgical technique.

Locking an RS stem is possible from a stem diameter of 16 mm (200 mm long) and 18 mm (250 mm long). It is not possible to lock stems that are 150 mm long. There are two available distal holes with a diameter of 5 mm.

To minimize the risk of the screws breaking, special cortical screws (Ø 4.5 mm) with larger core diameters are available in the lengths 25 mm to 60 mm.

The RS positioning instrument is mounted after inserting the cementless stem and successfully completing the trial reduction. Ensure that the ES guide rod is screwed into the stem (**Fig. 1**).

Note: Using a positioning instrument to achieve a lock is no longer possible at a later stage.

Slide part 3 of the positioning instrument over the guide rod and onto the implanted RS stem (**Fig. 2**). Pay attention to the position of the three pegs. They have to snap into the taper of the stem.

Now attach the alignment bracket (**Fig. 3**).

Use part 2 to screw the alignment bracket to the guide rod. The positioning instrument is now securely connected to the stem (**Fig. 4**).

Before making the puncture incisions, ensure that the correct holes for use in the alignment bracket are selected. These are labeled depending on the side and length of the stem used (**Fig. 5**). Always use the dorsal holes of the respective side.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

Prepare the soft tissue so that it is possible to screw in the guide sleeves through the holes in the alignment bracket until the femur bone has been reached.

After assembling the guide sleeves, screw in the drill sleeves (Fig. 6).

Drill the locking drill holes for the screws through the sleeves (Fig. 7).

Now remove the drill sleeves (Fig. 8) and use the depth gauge to measure the required screw length (Fig. 9).

Use the 3.5 mm hexagonal screw driver to help insert the corresponding screw (Fig. 10).



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

# Implants

**Key:**

⊙ with two locking drill holes at the shaft end

**MUTARS® RS stem cementless HA**

Material: implatan®; TiAl<sub>6</sub>V<sub>4</sub> acc. to ISO 5832-3

Coating: implaFix® HA; HA coating acc. to ISO 13779-2

article number	size	length	
67622015	15	200 mm	⊙
67622016	16	200 mm	⊙
67622017	17	200 mm	⊙
67622018	18	200 mm	⊙
67622019	19	200 mm	⊙
67622020	20	200 mm	⊙
67622021	21	200 mm	⊙
67622022	22	200 mm	⊙
67622517	17	250 mm	⊙
67622518	18	250 mm	⊙
67622519	19	250 mm	⊙
67622520	20	250 mm	⊙
67622521	21	250 mm	⊙
67622522	22	250 mm	⊙



**Cortical screw**

Material: implatan®; TiAl<sub>6</sub>V<sub>4</sub> acc. to ISO 5832-3

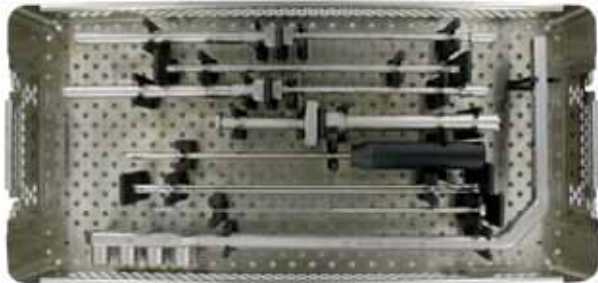
article number	diameter	length
58924525	4,5 mm	25 mm
58924530	4,5 mm	30 mm
58924535	4,5 mm	35 mm
58924540	4,5 mm	40 mm
58924542	4,5 mm	42 mm
58924545	4,5 mm	45 mm
58924550	4,5 mm	50 mm
58924555	4,5 mm	55 mm
58924560	4,5 mm	60 mm



# Containers

## MUTARS® RS – container 5

79996705



# Instruments

## MUTARS® RS – container 5

79996705

### Spiral drill bit

article number	length	diameter	quantity
012-1870-010	305	4	2

### Screwdriver

article number	size	wrench size
02801006	long	3,5



### MUTARS® RS positioning instrument

65000035



### MUTARS® RS depth gauge for positioning instrument

65000036



### MUTARS® RS guide rod ES

65003003



Attention: Instruments are delivered non-sterile. The relevant information on processing must be observed.





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Document number:  
MRZISTEN 2024-09-18