



## GSB III™ Elbow Ulna Extension

Surgical Technique



The second possibility



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## GSB III Elbow Ulna Extension

The disarticulation of the GSB-III elbow prosthesis was one of the most common complications associated with this prosthesis system, particularly during the early years of its use. Increasing experience, combined with the study of the possible causes of this disarticulation, showed us that it is particularly important that the rotary centre of the prosthesis is positioned to correspond exactly with the centre of the elbow joint.

The new instrument set for implanting the GSB-III prosthesis takes this particularly into account. Furthermore, we only detach the soft tissues (especially collateral ligaments, capsule and muscular attachments) as far as is necessary to achieve a good view of the site of the operation and to achieve the best possible range of movement when the prosthesis is in place.

If, despite all these measures, the prosthesis nevertheless becomes disarticulated, the following measures can be taken to prevent this reoccurring. Only in exceptional circumstances (when there are extensive bone defects) may the ulna extension also be used for the first implantation when the conditions are unstable.

## Fitting the Ulna Extension

### Disarticulating the Prosthesis

If necessary, disarticulate the ulna and humeral prosthesis.

#### Important

- Carefully clean the ulna stud and the proximal bearing surface of the ulna stem.
- Check that the humerus hinge (“the protruding gliding surface”) has unrestricted mobility throughout the entire area of movement of the prosthesis.



### Removing the PE Component

The polyethylene insert is removed from the moving component of the humeral prosthesis.



### Fitting the Sleeve

The sliding sleeve is pushed distally into the moving component in the place of the polyethylene insert. The snap mechanism locates the sleeve proximally.



#### Important

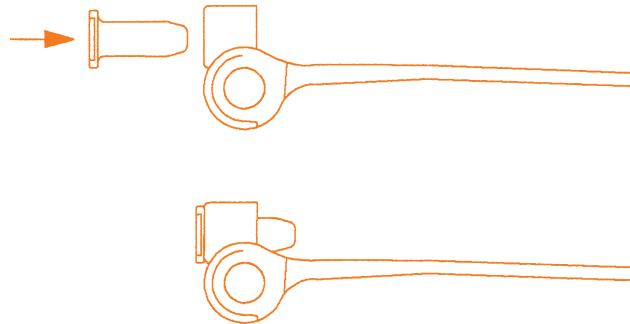
Different lengths of sleeve are required for the humeral prosthesis components 76/86 and 86 L.

### Positioning the Ulna Extension

The ulna extension is pushed distally into the sliding sleeve until its lower edge touches the moving component (or the sliding sleeve).

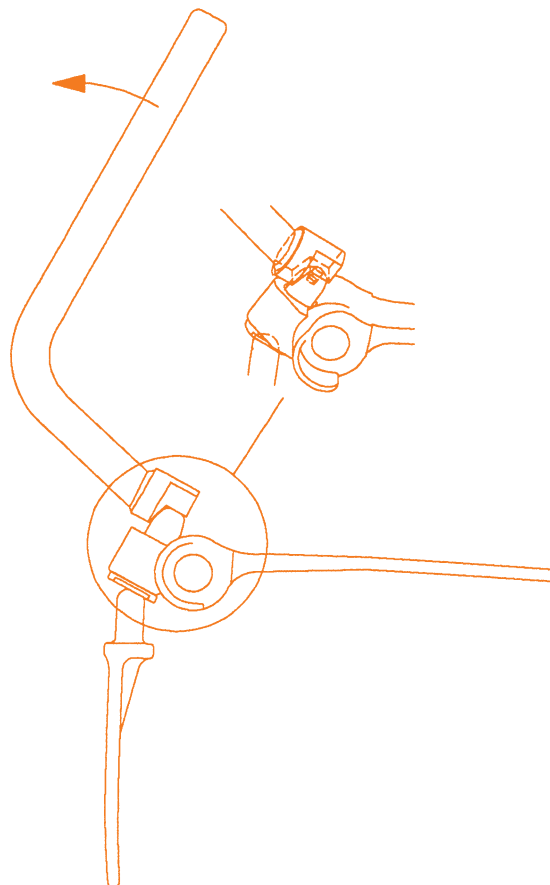
#### Important

The ulna extension must not jam in the sleeve, but must slide easily.



### Articulating the Prosthesis

The two prosthetic components must be carefully articulated together. The ulna extension is levered over the ulna stud using the repositioner and is pressed downwards until the ulna extension is sitting securely.



### Removing the Repositor

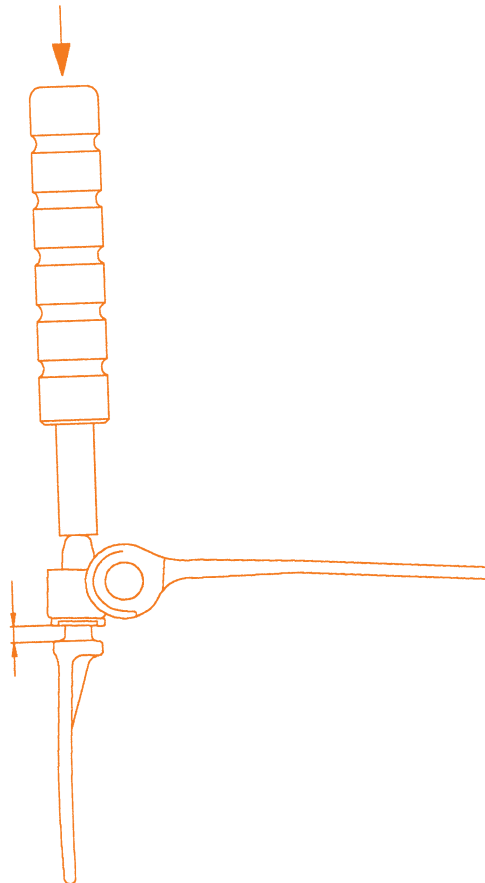
The repositioning lever can now be removed.

### Final Locking of the Extension

The ulna extension is driven further over the ulna stud by tapping it with the help of the setting instrument until the edge of the extension is correctly positioned.

#### Important

- Check that the ulna extension is sitting securely on the ulna stud.
- The ulna extension must be able to slide freely in the metal sleeve.





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