

*Otto Bock*<sup>®</sup>

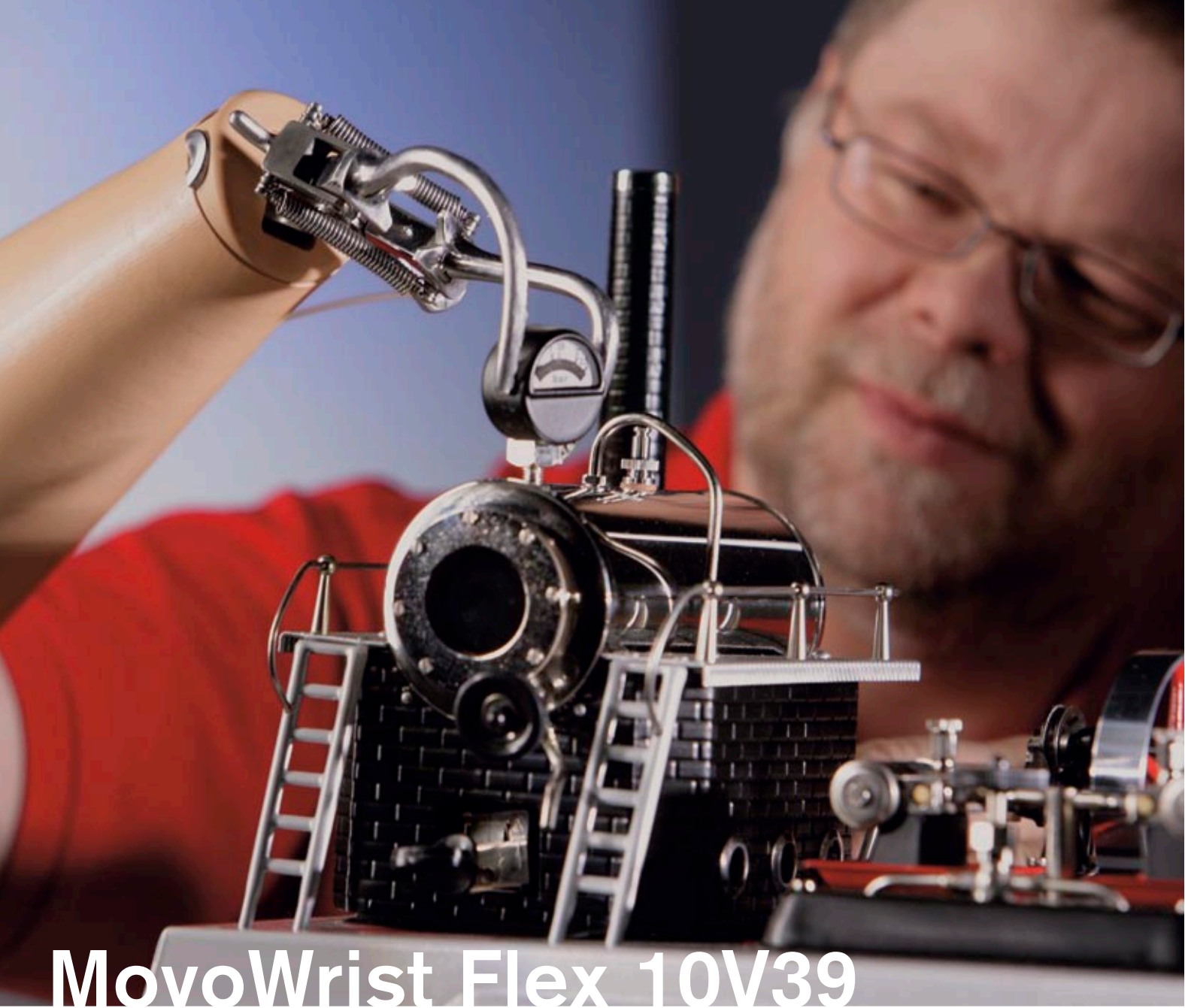
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# Flexion Wrist Joints

Information for Practitioners





# MovoWrist Flex 10V39



## Flexion and Action

This wrist joint was developed especially for Otto Bock System hands, hooks, and working tools. It permits flexion and extension with 5 locking positions from  $-15^{\circ}$  to  $+45^{\circ}$ . Twenty different rotation locking positions are available. The 10A30 adapter permits switching among various grippers quickly and easily.

### 10V39 Technical Data

|                                 |  |               |
|---------------------------------|--|---------------|
| <b>Setting positions:</b>       | 5 locking positions in $15^{\circ}$ increments                             |               |
| <b>Neutral or zero setting:</b> | $0^{\circ}$  |               |
| <b>Extension setting:</b>       | $-15^{\circ}$  |               |
| <b>Flexion setting:</b>         | $15^{\circ}/30^{\circ}/45^{\circ}$   |               |
| <b>Rotation:</b>                | 20 locking positions every $18^{\circ}$                                    |               |
| <b>Weight:</b>                  | 10V39=50   | approx. 130 g |
|                                 | 10V39=45   | approx. 110 g |
|                                 | 10A30=1/2"-20  | approx. 20 g  |
|                                 | 10A30=M12x1.5  | approx. 20 g  |
|                                 | 10A30=1  | approx. 58 g  |
| <b>Overall length:</b>          | 33 mm, of which 12 mm are visible on the distal end of the forearm socket. |               |



# MyoWrist Transcarpal 10V38



## Flex and Relax

The 10V38 MyoWrist Transcarpal allows flexion and extension of the wrist unit up to 40°. The 10V38 was developed for use with the Otto Bock 8E44 Transcarpal Hands. When combined with the 9S266 Quick Disk Wrist the installation height corresponds to an 8E38 System Electric Hand.

### 10V38 Technical Data

|                                 |                                       |              |
|---------------------------------|---------------------------------------|--------------|
| <b>Setting positions:</b>       | 5 locking positions in 20° increments |              |
| <b>Neutral or zero setting:</b> | 0°                                    |              |
| <b>Extension setting:</b>       | -20°/-40°                             |              |
| <b>Flexion setting:</b>         | 20°/40°                               |              |
| <b>Exterior diameter:</b>       | 36 mm                                 |              |
| <b>Weight:</b>                  | 10V38=7 ¼                             | approx. 85 g |
|                                 | 10V38=7 ¾                             | approx. 87 g |
|                                 | 10V38=8 ¼                             | approx. 89 g |
| <b>Maximum load capacity:</b>   | approx. 27 kg                         |              |
| <b>Overall length:</b>          | 24.7 mm                               |              |



# MyoWrist 2Act 10V40



## Flexion for Recreation

The 10V40 MyoWrist 2Act was developed especially for all variations of the Otto Bock System Electric Hands with 8E41 threaded studs in order to obtain a low structural height of the overall system. Flexion and extension are possible with 5 locking positions from  $-40^{\circ}$  to  $+40^{\circ}$  in  $20^{\circ}$  increments. Hand rotation is performed passively with the quick disconnect unit. Active rotation is also possible in combination with the 13E205 MyoRotronic.

### 10V40 Technical Data

|                                 |  |
|---------------------------------|--|
| <b>Setting positions:</b>       | 5 locking positions in $20^{\circ}$ increments |
| <b>Neutral or zero setting:</b> | $0^{\circ}$                                    |
| <b>Extension setting:</b>       | $-20^{\circ} / -40^{\circ}$                    |
| <b>Flexion setting:</b>         | $20^{\circ} / 40^{\circ}$                      |
| <b>Exterior diameter:</b>       | 36 mm  |
| <b>Weight:</b>                  | approx. 55 g                                   |
| <b>Maximum load capacity:</b>   | approx. 27 kg                                  |
| <b>Overall length:</b>          | 26 mm  |

# Otto Bock Flexion Wrist Joints

Additional degrees of freedom increase the range of action and benefit of the prosthesis. They simplify handling during tasks close to the body, allow the user to be more relaxed while working and provide a clear view of the work area. The user experiences improved freedom of action.

Unnatural compensating movements of the arm and shoulder can be avoided when gripping, enabling a physiologically correct body posture when using the prosthesis. This creates a more natural and inconspicuous appearance of the prosthesis wearer, which is supported by precise gripping with little fatigue and almost no need for secondary gripping. With improved positioning, the need for other implements may be eliminated.

## Tasks of artificial wrist joints:

- Connecting element between forearm and terminal device
- Switching among various terminal devices
- Positioning and fixation of terminal devices

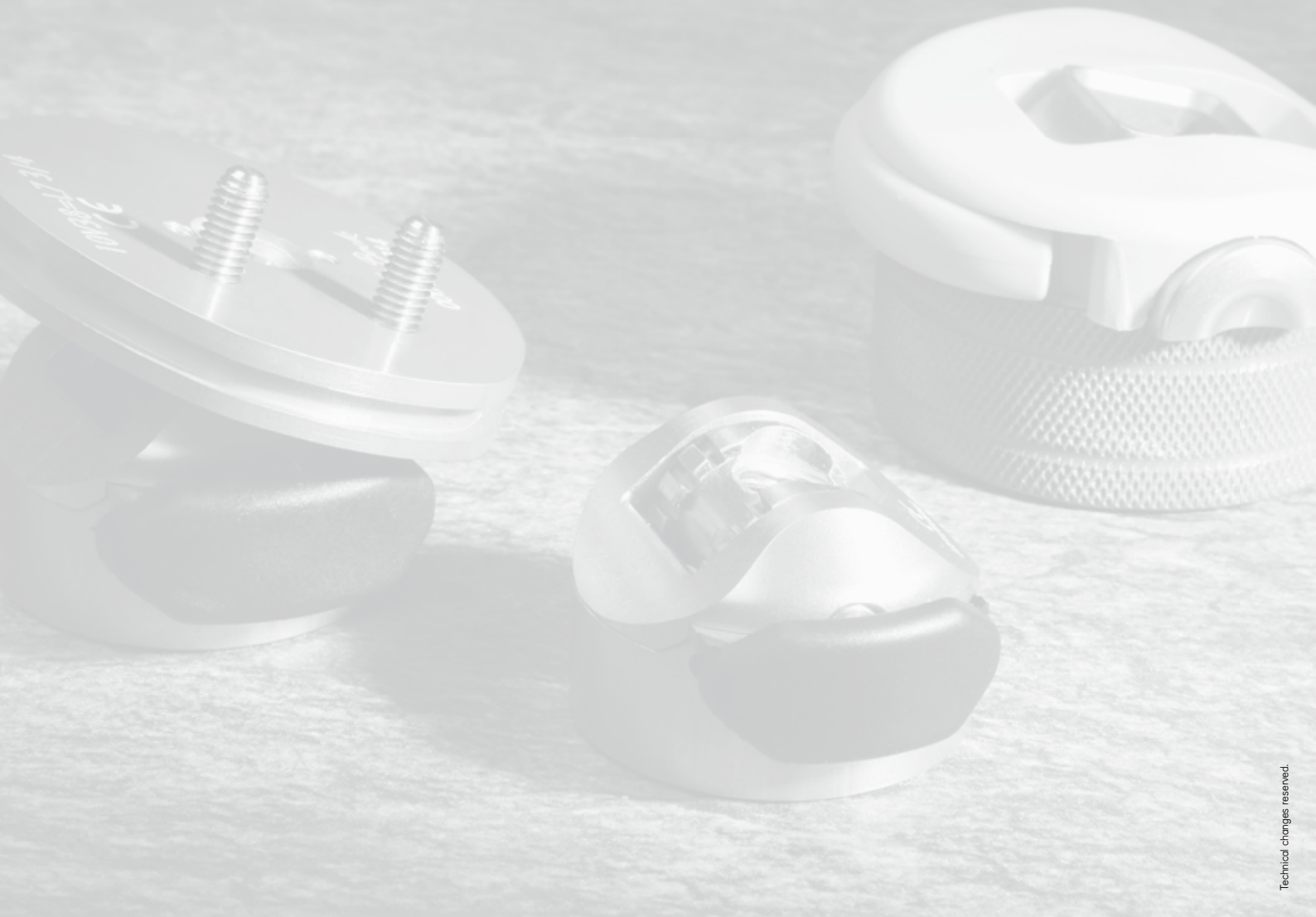
## Prerequisites for successful fittings:

- Targeted prosthesis training
- Acceptance of the user

**Target:** Increased patient benefit

## Compatibility of Flexion Wrist Joints

|  | 10V39 MovoWrist Flex   | 10V38 MyoWrist Transcarpal   | 10V40 MyoWrist 2Act  |
|--|--|--|--|
| <b>Wrist joints</b>                    | 10V39=45<br>10V39=50   | 10V38=L/R 7 ¼<br>10V38=L/R 7 ¾<br>10V38=L/R 8 ¼  | 10V40  |
| <b>Compatible terminal devices</b>     | Passive system hands<br>8K18/19=*<br>System Hands voluntary opening<br>8K20/21/22/23=*<br>System Hands voluntary closing<br>8K24/26/27=*<br>All Otto Bock hooks<br>All Otto Bock working tools | Otto Bock Transcarpal Hands<br>8E44=*  | Otto Bock System Electric Hands 8E41=*   |
| <b>Accessories</b>                     | 10A30=* Adapter for connecting terminal devices  | Also required:<br>9S266 Quick disconnect wrist adapter<br>9E397=* Coaxial Bushing<br>=7 DMC plus®<br>=8 Digital Twin®<br>=9 SensorHand Speed®<br>=10 VariPlus Speed® | Also required:<br>9S266 Quick disconnect wrist adapter<br>9E397=* Coaxial Bushing<br>=7 DMC plus®<br>=8 Digital Twin®<br>=9 SensorHand Speed®<br>=10 VariPlus Speed® |
| <b>Short residual limb version</b>     |  | Also required:<br>8R1=* Endoskeletal adapter   |  |
| <b>Assembly by service fabrication</b> |  | Also order item number<br>SMP-10V38  | Also order item number<br>SMP-10V40  |



Technical changes reserved.

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