

10V41 Robo-Wrist

Continuous locking positions provide precise, secure functions to support a wide range of ADLs.

Due to its continuous locking function, the Robo-Wrist 3D flexion wrist unit supports a broad range of applications for the user.

The wrist joint can rotate the terminal device by 360° and simultaneously flex/extend it at any angle up to 43°. Rotation and flexion are locked simultaneously by pressing the push-button. This allows the user to quickly and precisely adjust the wrist joint for the desired purpose.

By combining titanium, steel, and high-strength aluminum, Robo-Wrist offers a robust design without adding significant weight to a prostheses. Suitable for highly functional body-powered fittings, the ball-joint wrist can be paired with all body-powered terminal devices equipped with a corresponding standard threaded connector. Pairing the device with the Ottobock MovoHook 2 Grip Hook (10A71), also made from lightweight aluminum, will keep total prostheses weight moderately low while providing the user with powerful grip force and exceptional opening width.

The 10V41 comes with two 10A31=1/2-20 standard adapters for quick change of terminal devices.

Specifications

Robo-Wrist reference number	10v41
Weight	5.8 oz / 165 g
Wrist joint diameter	2 in / 50 mm
Lamination ring diameter	43.5 mm
Wrist joint height	1.6 in / 41 mm
Lamination ring height	3/4 in / 20 mm
Threaded connector	1/2 in - 20

Quick-change adapter

10A31=1/2-20	Standard adapter with imperial thread
10A32=1/2-20	Two-part titanium adapter with imperial thread for demanding tasks



Features and benefits

Features	Benefits
Manual locking of the movement axis with a pushbutton	Precise and secure locking of the joint in the desired position; easy to release
Continuous lock: 43° flexion / extension and 360°circumduction	The position of the terminal device is easy to adjust
The friction of the unlocked ball can be customized by turning the ring	Passive support for movement sequences in the unlocked state (in contrast to locked wrist joints), for example during activities such as cycling and rowing. High level of safety since this customized friction cannot change on its own.
Titanium housing	Lightweight and robust design for intense demands
Quick-change function and adapter to quickly change the terminal devices	Simple for patient to switch between terminal devices (2x 10A31=1/2-20 standard adapters included in the scope of delivery)