ottobock.

CE

connectgrip. 560X27-1=*

EN Instructions for use (qualified personnel) 3

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1 General

INFORMATION

Date of last update: 2025-04-11

- ► Please read this document carefully before using the product and observe the safety notices.
- ► Instruct the user in the safe use of the product.
- ► Please contact the manufacturer if you have questions about the product or in case of problems.
- ► Report any serious incident related to the product, in particular any deterioration of health, to the manufacturer and the competent authority in your country.

The “connectgrip” adjustment app is referred to as the app/adjustment app in the following document.

These instructions for use are available in additional languages online or can be ordered as a printed copy free of charge at “order-ifu@ottobock.com” e-mail address.

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Download: https://product-documents.ottobock.com/IFU/INT/13E524/647G1854/01/O/S/F

1.1 Target group

The user must be instructed about the use of the product by authorised, qualified personnel.

2 Safety-related information

CAUTION!

Risk of injury due to product malfunction

- ► Do not touch the demo prosthesis while it is being controlled.
- ► Observe the calibration instructions.

3 Product description

3.1 Function

The connectgrip app provides a user-friendly interface for users and qualified personnel to control and personalise myoelectric arm and hand prostheses. It facilitates simple adjustments, the visualisation of signals in real time and the recording of individual movements to compensate for unwanted behaviours. Users gain improved control, while qualified personnel benefit from optimised adjustment options, improving both functionality and comfort.
Agreeing to the terms of use is a prerequisite for using the app.
Qualified personnel require a MyOttobock account and certification.

3.2 Information on the adjustment app

INFORMATION

The menu items listed in these instructions for use may deviate from the actual menu items due to the products and the app version.

Download on the App Store

GET IT ON Google Play

- The app can be downloaded free of charge from the respective app store (Apple App Store, Google Play Store). Enter the following search terms: “connectgrip’”, “Ottobock” or scan the QR codes.
- Large font sizes in combination with small screens can cause text on the screen to be cut off or illegible. Information about the functions of the controls and adjustment parameters in the adjustment app is provided in these instructions for use.
- Keep the mobile app up to date at all times.
- Please contact the manufacturer if you suspect cybersecurity problems.

4 Intended use

4.1 Indications for use

The adjustment app is used to adjust mechatronic upper limb products.

4.2 Product combinations

Prerequisites:

	Programming	Program selection
8E70/71/72=* bebionic hand	bebalance+	Mode 4 – OPEN-OPEN standard
12K50 ErgoArm: 10S17 Electric wrist rotator and 13E205 MyoRotronic	MyoSelect	Program 1
12K100N DynamicArm	ElbowSoft	Use the 13E100 analogue adapter to fit analogue terminal devices and configure the settings in ElbowSoft. See the information in the adjustment app.

Fitting without elbow joint			
	speedhand 8E2=*	**MyoBock terminal device 8E33/34/38/39/41/44-=***	**8E70/71/72=* bebionic hand**
connectgrip	Relaxed hand position	-	Donning mode
	8E2=*-1: thumb sensor		
Terminal device	On/off switch	On/off switch	Primary/secondary grips
		8E*=8: thumb sensor	

Fitting with elbow joint			
	speedhand 8E2=*	**MyoBock terminal device 8E33/38/44=***	**8E70/72=* bebionic hand**
connectgrip	-	-	-
Terminal device	On/off switch	On/off switch	Donning mode
	8E2=*-1: thumb sensor	8E*=8: thumb sensor	Primary/secondary grips

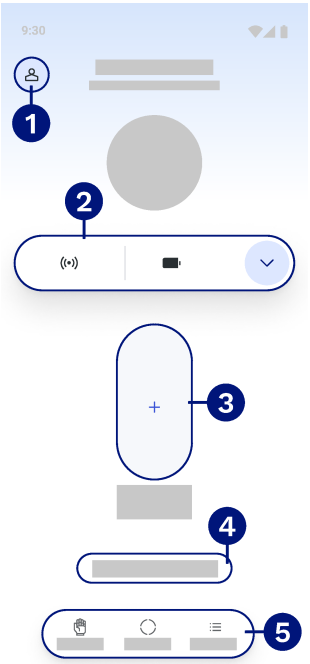
The combination of the “myosmart” product and the “connectgrip” adjustment app only supports Ottobock terminal devices and analogue signal processing. Please see the respective instructions for use for information on adjusting other products.

5 System Requirements

For compatibility with mobile devices and versions, refer to the information in the Apple App Store or Google Play Store.

6 Operating elements for the adjustment app

This is an overview of the app's navigation points and setting options.



1. User account (see page 7)
2. Status bar (see page 8)
3. Control switch (see page 8)
4. Additional functions (see page 9)
5. Tab bar (see page 8)

6.1 User account

To set up the connected product and configure advanced settings, you need to log in with your MyOttobock account. This is only possible after certification for technicians/therapists (expert/therapy expert) has been completed.

The user account icon displays the login status of the user.

User is logged out

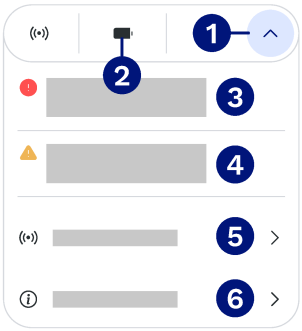
User is logged in

Depending on your login status, tapping the user account icon allows you to view a submenu containing the following options:

- **Logging in/Log out** (see page 10)
- **Account administration** (see page 10)
- **Certification** (see page 10)

6.2 Status bar

The status bar provides a quick overview of the most important system states of the connected product. After tapping the drop-down button ❶, the status bar expands and displays additional information and submenus depending on the product and status.



❷ The battery indicator shows the charge level in 25 % increments.
❸ If there are any error messages, they can be viewed here.
❹ If there are any warning messages, they can be viewed here.
❺ Tapping **Connections** (see page 10) takes you to the Connect product page.
❻ Tapping **Product status** (see page 12) takes you to the Product status page.

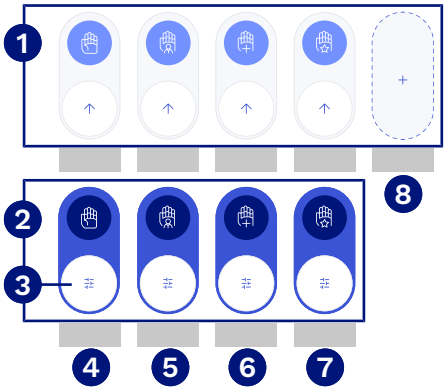
6.3 Tab bar

The tab bar is the main navigation area in the adjustment app.

❶ **Control** (see page 8)
The **Control** tab provides access to the control switches, the information bar and other functions.
❷ **Signals** (see page 17)
The current muscle signals and the detected movements are displayed on the **Signals** tab.
❸ **Menu** (see page 20)
The **Menu** tab opens the menu of the adjustment app.

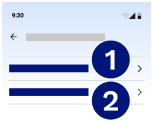
6.4 Control switches

- The control switches are located on the **Control** tab (see page 12).
- They enable users to quickly switch between different prosthesis controls.
- The illustration shows inactive ❶ and active ❷ variants of the switches.
- To activate a prosthesis control, swipe the arrow button upwards and hold briefly (see page 13).
- Once a prosthesis control is active, the control settings can be adjusted using the round button ❸.



- **Test control** ❹
  A kind of test environment where new movements can be tested.
- **Basic control** ❺
  This control mode is configured together with the qualified personnel.
- **Extended control** ❻
  This control mode complements and refines the basic control with additional movement recordings.
- **Individual control** ❼
  A control mode that completely replaces the basic control and can be individually adjusted without qualified personnel. The qualified personnel have to grant permission for this function. It is recommended for experienced users only.
- **Control switch placeholder** ❽
  This button can be used to add one of the control switches mentioned above, provided they have not already been added.

6.5 Additional functions



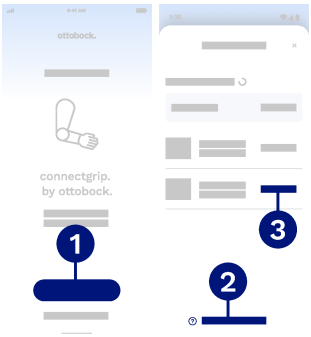
❶ **Deactivating movements** (see page 18)
This option can be used to define which prosthesis movement is to be deactivated individually.
❷ **Manual control** (see page 19)
This option makes it possible to control every available prosthesis movement manually.

7 Use

7.1 Starting the adjustment app

1) Tap the icon for the “connectgrip” app.
   → The terms of use and privacy policy are displayed.
2) Accept the terms of use by ticking the checkbox.
   → If the terms of use are not accepted, the app cannot be used.
   → This step is only necessary when you start the app for the first time.

7.2 Establishing the Bluetooth connection to the product



1) Tapping the **Connect product** ❶ button starts the search for available products.
   → Bluetooth needs to be activated on the product to establish a connection between the app and the product. Please refer to the respective instructions for use for your product for detailed information on how to activate this. Please use the **Product not found** ❷ option for further assistance.
   → In addition to the available products, **Demo mode** is also shown here.
   In **Demo mode**, the app can be used with limited functions, even if no product is connected. However, the full functionality of the app is only available after connecting to a product.
2) From the products that are shown, select the desired product and tap the **Connect** ❸ button.
3) Follow the subsequent instructions on the screen.
   → The animated icon is displayed while the connection is being established.

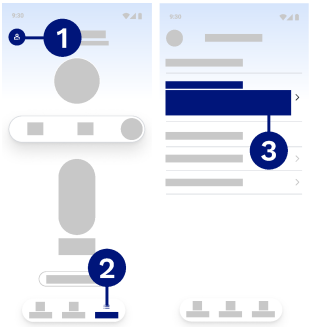
→ After the connection has been successfully established, you will be redirected within the adjustment app.

7.3 MyOttobock account

INFORMATION

To enable MyOttobock users to access their MyLearning certificates, both accounts must use the same e-mail address!

To configure a product in the adjustment app, create a MyOttobock account and log in.



Not yet logged in with a MyOttobock account

1) Tap the user account icon ❶ or **Menu** ❷ on the tab bar to go to the next page.
2) Log into your MyOttobock account or register using the **MyOttobock account** ❸ menu item.

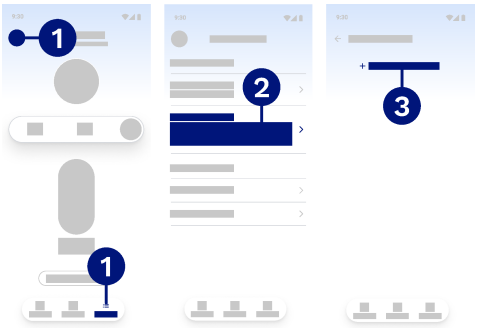
Logged in with a MyOttobock account

> Tapping the user account icon provides the following options:

1) **Logging in** Log out of the MyOttobock account.
2) **Account administration** Manage MyOttobock account settings, change password or delete account.
3) **Certification** Add or manage product certification.

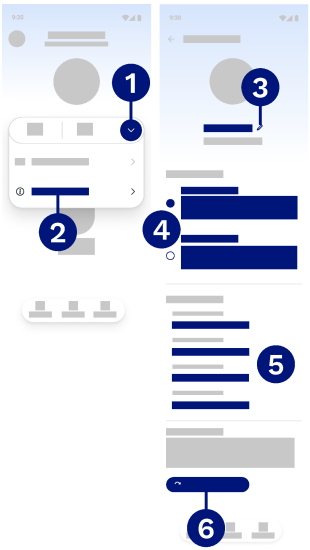
7.4 Certification

A product can only be adjusted after certification (expert/therapy expert) for the corresponding product has been completed. The certificate request can be initiated via the menu or the user account.



1) Tap the **Menu** ❶ tab on the tab bar or tap the user account icon.
2) Tap **Certification** ❷.
   → The certifications for the respective components are displayed.
3) Certificates and roles can be added by tapping **+ Add certification** ❸.

7.5 Product status



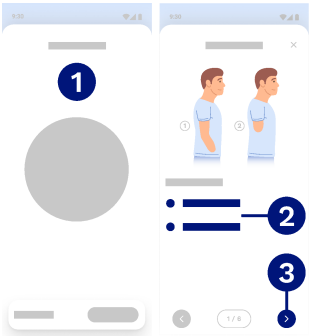
> The following steps are required to view the **Product status**.

1) On the status bar, open the submenu by tapping the ❶ drop-down button.
2) Tap the **Product status** ❷ menu item.

Menu items and information on the product status page:

- Customising the product name ❸
- Switching the product's Bluetooth from **Permanently active** to **Active for only two minutes** ❹
- **Product name**, **Bluetooth ID myosmart**, **Firmware version myosmart** and **Firmware version terminal device** ❺
- Resetting the connected product to factory settings by tapping the **Resetting to factory settings** ❻ button
  INFORMATION: This is only possible when logged into qualified personnel mode.

7.6 Configuration of prosthetic components



> A Bluetooth connection to the product must first be established in order to access the prosthesis configuration (see page 10).

1) Following successful connection to the product ❶, you will be automatically redirected to the prosthesis configuration.
2) You are guided step by step through the individual adjustment points in the prosthesis configuration ❷.
3) Follow the subsequent adjustment steps within the prosthesis configuration ❸ to complete the process.

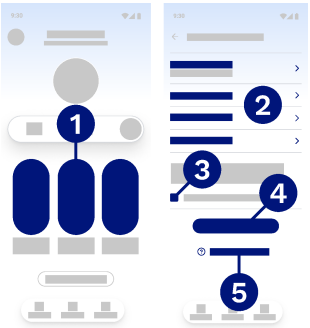
→ Following successful completion of the configuration, you will be automatically redirected to the start screen.

7.7 Prosthesis control

INFORMATION

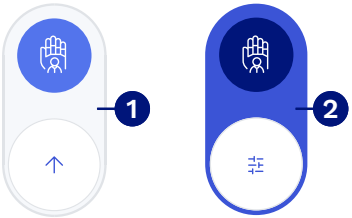
Activate prosthesis control for use

The prosthesis control can only be used once it has been activated (see page 13 section: Activating/Switching on prosthesis control).



1) The prosthesis control can be activated and adjusted via a control switch ❶ (see page 13). The settings page opens once the prosthesis control has been activated.
2) Different submenus ❷ are displayed depending on the prosthesis control:
   → **Basic recordings** (see page 13)
   → **Additional recordings** (see page 15)
   → **Joint switching** (see page 15)
   → **Control optimisation** (see page 17)
3) Tapping **Enable individual control** ❸ opens a dialogue window. In the window, you have to confirm that activating individual control will delete the extended control.
   INFORMATION: This is only possible when logged into qualified personnel mode.
4) The **Reset control** ❹ button deletes all added movements and joint changes.
5) **More info** ❺ provides detailed information on the control mode that has been selected.

7.7.1 Activating/Switching on prosthesis control



Before a control can be used and adjusted, it must be switched from inactive ❶ to active ❷.
Complete the following steps to do this.

1) Press the arrow button ❶ and slide it upwards.
2) Press and hold the button ❷ briefly after sliding it.
3) Release the button.
→ After releasing the button, it may take a few seconds before the control can be activated and used.

7.7.2 Basic recordings

INFORMATION

Activate prosthesis control for use
The prosthesis control can only be used once it has been activated (see page 13 section: Activating/Switching on prosthesis control).

The basic recordings are essential to everyday use of the prosthesis. All basic recordings are made by a guided wizard.

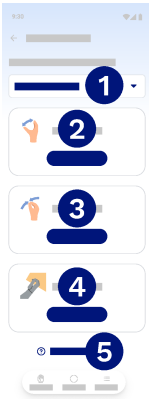
- The individual pause time between the recordings can be set under option ❶.
- The **Open hand** ❷ section is used to make the 3 recordings for opening the hand.
- The **Close hand** ❸ section is used to make the 3 recordings for closing the hand.
- The **More info** ❹ button opens a window containing detailed descriptions of the basic recordings.

Recording movements

A wizard assists you when recording movements. You can select 2 different views before starting recording. The functions and views during the recording process are explained here.

1) In **Easy** mode ❶ , only the type of movement to be performed is displayed visually.
2) In **Easy** mode ❷ , the controlled signals are also displayed visually.
3) Select **Start** ❸ to start the recording process.
4) **Pause time**: When the hourglass is shown, relax the muscles until the time in the bar ❹ is up.
5) **Recording relaxation**: When the coffee cup is shown, muscle signals are recorded during relaxation ❺. In this case, a basic value for the ON threshold is determined. This can be easily adjusted under control optimisation. **TIP:** Make very slight circular movements or hold a light object in your hand.
6) **Record movements**: Tense the muscles of the specified movement slowly, increasing the tension. After reaching the third bar ❻, this should be about 70 % of your muscle tension. Do not increase this tension and hold it until the end.
7) Steps 4–6 are repeated 3 times.

7.7.3 Additional recordings

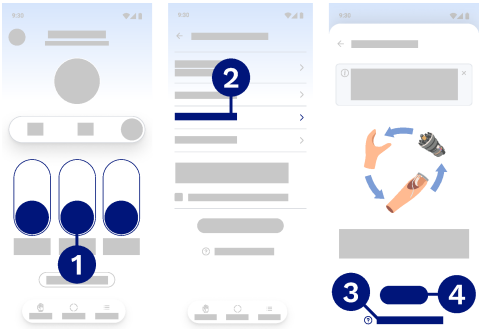


To make the control more stable in day-to-day life or for certain activities and to rule out incorrect movements as far as possible, muscle signals for the respective movement can also be added or deleted independently.
All additional recordings are made by a guided wizard.

- The individual pause time between the recordings can be set under option ❶.
- The **Open hand** ❷ section is used to make additional recordings for opening the hand.
- The **Close hand** ❸ section is used to make additional recordings for closing the hand.
- The **Unintentional movement** ❹ section is used to make additional recordings for unwanted movements.
- The **More info** ❺ button opens a window containing detailed descriptions of the additional recordings.

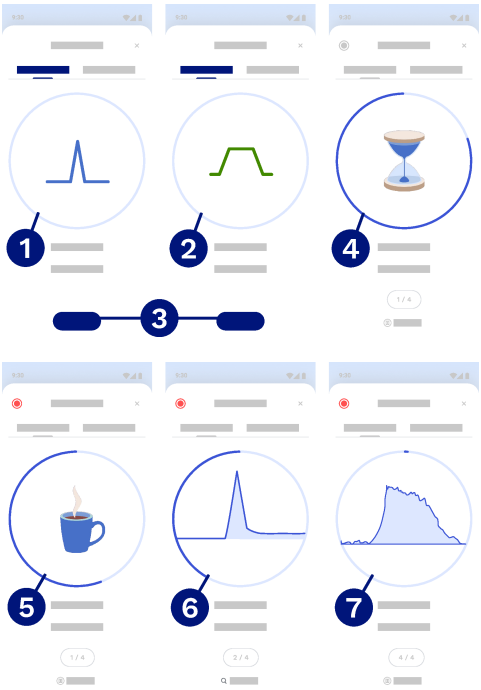
7.7.4 Joint change

The myosmart control enables switching between the prosthetic joints using muscle signals. However, a few settings must first be made and muscle signals recorded in order to carry out this **Joint switching**.



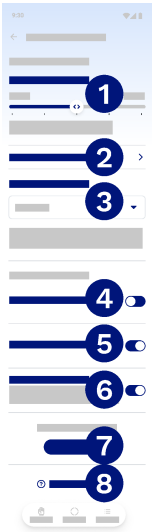
- Joints can only be changed with the following prosthesis controls: ❶
  - **Test control**
  - **Basic control**
  - **Individual control**
- It is **not** possible to change joints with the **Extended control** control variant.
- Select the **Joint switching** ❷ menu item to access the wizard-controlled submenu.
- The **More info** ❸ menu item provides detailed information on the two types of joint changes.
- The **Start** ❹ button initiates the wizard-controlled joint change function.

Recording impulses/fast access
Impulse:
An impulse is a brief, rapid tensing and immediate relaxation of the muscles (e.g.: co-contraction, opening or closing signal).
Fast access:
With slow muscle tension, the hand function is accessed rapidly. With rapid tension, the rotation or the elbow joint is accessed rapidly. The strength of the tension determines the speed of movement. Movements remain active until the muscles are relaxed.
There are two ways to switch the joint. By impulse-controlled change or by fast access. The joint change recordings are made by a guided wizard. The recording pages are explained in detail below.



1) The joint can be switched using either an **Impulse** ❶ or **Fast access** ❷, depending on the selection.
2) Select **Start** ❸ to start the recording process.
3) **Pause time**: When the hourglass is shown, relax the muscles until the time in the bar ❹ is up.
4) **Recording relaxation**: When the coffee cup is shown, muscle signals are recorded during relaxation ❺. In this case, a basic value for the ON threshold is determined. This can be easily adjusted under control optimisation. **TIP:** Make very slight circular movements or hold a light object in your hand.
5) **Impulse**: Generate your personal impulse by rapidly tensing and immediately relaxing the muscles. The recorded signal can be identified in the graphic by a “sharp spike” ❻.
6) **Fast access**: Use the same muscle tension as when opening or closing your hand. This tension must be generated quickly and then maintained or slightly relaxed. The recorded signal can be identified in the graphic by a “sharp rise and a level that is maintained then gradually falls” ❼.
7) Steps 3–5/6 are repeated 3 times.

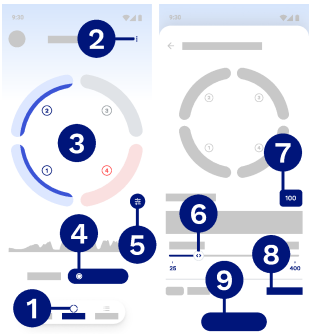
7.7.5 Control optimisation



- The **Switch-on threshold (ON threshold)** ❶ option specifies the threshold level above which prosthesis movements are executed.
- The relationship between muscle tension and speed of movement can be adjusted using the **Speed adjustment** ❷ menu. As the level increases, the movements lose proportionality, which makes precise or slow control more difficult.
- Under the **User experience** ❸ drop-down menu, you will find 3 types of control behaviour for the prosthesis:
  - **Beginner**
    The control of the prosthesis is more reliable and robust in this setting but it will be slower when performing movements.
  - **Advanced**
    This setting offers a good compromise between reliability and dynamic control and is intended for users who have already been using the prosthesis for some time in their day-to-day life.
  - **Expert**
    The control reacts sensitively and quickly to muscle signals, allowing the user to use the full dynamic response. In this setting, the user's muscle signals have to be very precise and reliable in order to avoid incorrect movements.
- With the **Relaxed hand position** ❹ option, the prosthesis automatically assumes an individually adjusted position after fully opening the hand and relaxing the muscle signal.
- When the **Thumb sensor** ❺ option is activated, the user is supported by an automatic grip stabilisation system.
- With the **Glove mode** ❻ option, the bebionic hand enters glove mode after the prosthesis is switched on.
- Tapping the **Reset** ❼ option resets all control optimisations to the default value.
- **More info** ❽ provides a summary of the most important information for all control optimisations.

7.8 Signals

The **Signals** ❶ tab takes you to the display of the current muscle signals. It provides you with various options and information; brief explanations are given here.



- The three dots in the upper right corner ❷ take you to the **More info** view. All important functions of the signal view are explained in detail there.
- The signal representation ❸ is displayed with a different number of signal elements depending on the product that is connected. The status of a signal is displayed in colour:
  - 1–2: Provides real-time feedback and is displayed in dark blue.
  - 3: Is currently inactive and is shown in grey.
  - 4: The signal is shown in red because the slot or component is defective or is not connected correctly.

- You can use the **Record** ❹ button to record signals and then analyse them.
- Use the button ❺ (Configuration) to access the overview of the signal representations.

  Page overview – signal representation:
  - The slider ❻ ensures that the representation of the signals is displayed according to the setting.
  - The value set using the slider is displayed at this point ❼.
  - The **Reset** ❽ button restores the default value of the representation size.
  - The **Apply** ❾ button closes the signal representation window and displays the signals with the newly configured values.

7.9 Demo prosthesis

To connect a **Demo prosthesis**, there must be an active connection to a myosmart cuff and you have to register as certified qualified personnel in the app.

1) Tap the menu tab ❶ to access the menu.
2) The **Demo prosthesis** ❷ menu item takes you to the subpage.
3) Tap **Connect** ❸ to connect the **Demo prosthesis**. You will receive in-app instructions on how to connect the **Demo prosthesis**.
4) For detailed help and support, tap **Assembly instructions** ❹. A wizard will guide you through the individual steps.

7.10 Activating/deactivating movements

A wide range of movements can be deactivated and also reactivated, depending on the product being used.

Here is a list of all possible options:
1. **Open hand**
2. **Close hand**
3. **External rotation**
4. **Internal rotation**
5. **Extending the elbow**
6. **Flexing the elbow**
7. **Elbow lock**
8. **More info**

provides a brief summary of how the prosthesis behaves when deactivated.

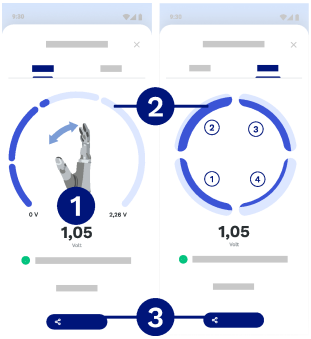
7.11 Manual control

A wide range of movements can be controlled manually, depending on the product being used.

The speed of movement of the movements being used can be individually adjusted using the slider **Speed (%)** 1.
When using the options below, the set speed can be tested by pressing and holding the play button:
2. **Open hand**
3. **Close hand**
4. **Internal rotation**
5. **External rotation**
6. **Extending the elbow**
7. **Flexing the elbow**
8. **Elbow lock**

7.12 Documentation

Screenshots can be taken for your own documentation or to provide documentation to the paying party.



1) The detected movement is displayed with images and text ❶.
2) The strength of each movement is displayed:
   → by a blue bar (ON, LOW and HIGH threshold) ❷
   → with an increasing number of volts.
3) Ask the user to perform various movements (e.g. Open hand, Close hand, Internal rotation, External rotation) with low, medium or high intensity.
4) While performing the movements, press the button ❸ to export a screenshot.
   → This allows a range of screenshots to be taken to show that the user is able to control all movements of the prosthesis proportionately.

7.13 Menu

Depending on the login status and product connection, different subitems can be found in the menu. Here is a list of all possible subitems.

❶ **MyOttobock account** (see page 10)
This redirects the user to the MyOttobock account.
❷ **Certification** (see page 11)
Here the certified qualified personnel can activate themselves for a product and all products that may be fitted are displayed.
❸ **Prosthesis configuration** (see page 12)
Here you will find an overview of the configuration for the product that is currently connected and a way to reset the configuration.
❹ **Demo prosthesis** (see page 18)
A demo prosthesis can be connected and tested here.
❺ **Documentation** (see page 19)
Here you can take screenshots of the prosthesis movements and export them so that they can be used as documentation for the paying party.
❻ **Display instructions for use**
This redirects the user to the instructions for use for the adjustment app.
❼ **Video tutorials**
This redirects the user to the training and practice videos.
❽ **Legal notice**
The legal notice for the adjustment app is available here.

8 Legal information

8.1 Trademarks

All product names mentioned in this document are subject without restriction to the respective applicable trademark laws and are the property of the respective owners.
All brands, trade names or company names may be registered trademarks and are the property of the respective owners.
Should trademarks used in this document fail to be explicitly identified as such, this does not justify the conclusion that the denotation in question is free of third-party rights.

8.2 CE conformity

This product complies with the relevant European requirements for medical devices.
The full text of the EU Declaration of Conformity is available at the following Internet address: http://www.ottobock.com/conformity

9 Symbols Used

Manufacturer

Declaration of conformity according to the applicable European directives

Medical device

UDI number (Unique Device Identifier)

Article number

Please note the instructions for use

Date of manufacture

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