

ottobock.

**Take control with
powerful performance.**

Information for user





Precision that adapts to you.

The **micbelangelo** prosthetic hand combines natural movement, strong grip force, and cutting-edge technology. It responds quickly, grips reliably and supports you in a wide range of everyday situations. With multiple glove options available, the look can be individually customized. When paired with **myosmart plus** control and the **connectgrip** app, the hand intelligently adapts to your individual needs and can be easily personalized. This allows you to grasp, hold, and move objects in a remarkably natural way. Experience flexibility, precision, and confidence – with a prosthesis that sets new standards in functionality and ease of use.



Watch on youtube

Benefits at a glance.



Versatile grip options for every situation

Whether you're holding paper or a pen, carrying bottles, or balancing a bowl on an open hand, the **miclangelo** prosthetic hand supports you in everyday and work tasks. Its different grip patterns are intuitive to use and designed for a wide range of daily situations.



IP67 waterproof

Dust, splashes, or a light rain shower? No problem. With an intact glove, your hand remains reliably functional up to the glove edge – in the kitchen or outdoors. Make sure that no liquid or dirt can enter the hand through the glove.



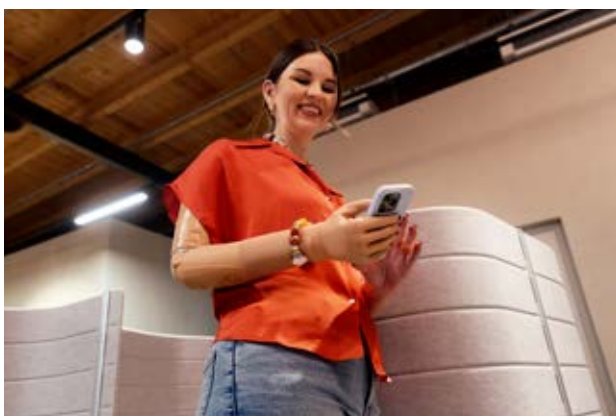
Direct and fast control

With **miclangelo** and **myosmart plus**, you can control your grips directly and move your hand smoothly. Lateral, opposition, or neutral, your hand responds quickly and intuitively. Switching signals can be added whenever you need them.



Fine-tune your hand for everyday tasks

The **connectgrip** app and the **myosmart plus** give you precise control of how your myoelectric hand moves, grasps, and responds to your muscle signals. Adjust the grips, change switching events, personalize your settings, and more, all right from your Apple or Android device.



Save time with flexible customisation

When your hand requires fine adjustments in everyday life, there's no need to visit your CPO. With **connectgrip**, you can independently adjust the prosthesis anytime, anywhere – at home, at work, or on the go.



Four modular wrists – tailored to your needs

Your prosthesis can be fitted with four **modular wrists**, which can be selected according to your individual needs. The **micelangelo** can also be combined with the **wrist flex**, a unique, dampened modular wrist. This combination supports a more natural posture and helps reduce compensatory movements.



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*The training helped me quickly integrate the hand into my daily life. With the **connectgrip** app, I can see exactly which muscle signals I’m using, giving me confidence and assurance, both during training and in everyday life.*

Nicky



Custom glove options personalized glove options – from subtle to expressive

The **micHELangelo** is available with PVC gloves in seven skin tones, featuring realistic veins and nail details for a natural look. For a modern, striking style, translucent and black gloves are also available. Size M is additionally offered with silicone gloves in seven skin tones.



Optimal for above-elbow fittings

The **micHELangelo**, together with **myosmart plus** and **connectgrip**, is compatible with the **DynamicArm**, offering an ideal solution for functional, active transhumeral fittings.



Paintable nails

The nails can be customized with standard nail polish, giving the hand a personal touch.



Natural design and appearance

Thanks to its highly natural design, the ***micelangelo*** integrates seamlessly into the user's overall body image. Soft and firm materials recreate anatomical details with impressive realism.



Training at home

myosmart cuff is a valuable tool for both clinicians and users. It can be used in your clinic to evaluate prosthetic options as well as at home by the user for targeted training.



Small & Medium – the right size for everyone

The ***micelangelo*** is available in small and medium and provides an ideal fit for teens, women, and men.



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With michelangelo and myosmart plus, we can tailor the fitting to the individual needs of each user. The structured process gives us confidence in achieving a precise result every time.

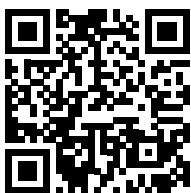
Mark, CPO

Streamlined fitting.

From assessment to everyday training.

With **myosmart plus** control and the **connectgrip** app, fitting your prosthetic hand has never been easier. Get to know your prosthetic control starting already with the evaluation, deep dive during fitting and adapt on the go through everyday training.

The **micheelangelo** arm prosthesis can be intelligently adjusted to your individual needs and tested directly in everyday life. Practical exercises and trial configurations help you quickly master the functions – for maximum mobility, confidence, and independence.



Watch on youtube

Powerful, reliable and fast performance

The robust technology of the **micelangelo** prosthetic hand delivers dependable everyday function, enabling secure gripping of various objects as well as quick and precise movements – for maximum flexibility and confidence in any situation.

Natural movements through precise pattern recognition

Muscle signals control the hand and thumb to create a natural gripping experience. With the **myosmart** and **myosmart plus** controls, different grip patterns and motion sequences are reliably detected. Using the **connectgrip** app, these patterns can be easily customized and expanded. This allows a wide variety of grips, rotation functions, and finely tuned movements to be accessed efficiently – perfectly tailored to the user's functional needs.

Personalizable prosthetic control with pattern recognition

myosmart plus is an advanced prosthetic control system featuring sophisticated pattern recognition and up to eight electrodes that capture the user's muscular activity. Based on these signals, the system automatically assigns the appropriate hand movements and grip types. These can be individually adjusted to the user's preferences – enabling precise, personalized control.





Advanced training and evaluation tool

The **myosmart cuff** supports the evaluation process and helps identify the ideal prosthetic solution. Combined with the **connectgrip** app, it provides clear visual feedback that assists with optimal electrode placement, simplifies early signal training, and strengthens understanding, confidence, and excitement among potential new users.

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Together, myosmart plus and connectgrip make prosthetic control transparent for users, enabling movements to be visualized and trained directly.

Birgit, therapist



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*micelangelo
makes me feel like I
belong. With the intuitive
myosmart plus control,
even more so.*

Marie

The interface to your prosthesis.

The **connectgrip** app is a universal tool for prosthetic fitting and everyday use. It guides the user, the therapist and the CPO through the structured fitting process, supports training with visual feedback and helps promote independence in daily life. Additional movement patterns can be recorded and individual settings adjusted via the app to optimize prosthesis control and functionality according to the user's personal needs. Helpful resources such as user manuals, training guides, and videos are readily available. The remote update feature keeps **myosmart** and **myosmart plus** up to date over the long term and reduces service times.

Prevent unintended prosthetic movements

To prevent unintended prosthetic movement, **myosmart plus** and the **connectgrip** app can record accidental muscle signals to help avoid miscontrol.

Quick and easy prosthesis deactivation

Individual or all prosthetic components can be temporarily deactivated or reactivated with a brief muscle signal or the **connectgrip** app, providing maximum safety and flexibility.



Take control.

Every muscle movement generates characteristic signals that **myosmart plus** detects and interprets as movement patterns. During a structured training, it learns to map these signals to the corresponding prosthetic movements. Up to eight electrodes record these signals, delivering more than 1,800 measurements per second. This allows multiple prosthetic movements to be controlled directly without switching signals. The result is a fast, precise control that responds to what you intend.

Who is myosmart plus suitable for?

myosmart plus is ideal for individuals with congenital limb differences or upper limb amputations who want to move as freely and directly as possible. It is particularly suited to individuals with good muscle coordination or those who are willing to actively train and develop their control skills further.

myosmart plus shows its strengths with myoelectric prosthetic hands, active wrist rotation, and active elbows: fewer switching signals lead to smoother, more fluid movement sequences. By combining direct pattern recognition with optional switching signals, **myosmart plus** enables a quick start and supports you in gradually achieving control that becomes more natural with every use.

What is the difference between myosmart and myosmart plus?

myosmart and **myosmart plus** are both myoelectric controls based on advanced pattern recognition. Both deliver personalized, precise prosthetic control, naturally shaped by your own muscle signals.

myosmart uses two simple, robust signals and sequential joint switching, making it ideal for fast, reliable fittings with less required training.

myosmart plus takes control one step further. With multiple directly controllable prosthetic movements that can be combined with switching signals, it lets you control directly and fluidly through everyday tasks.



myosmart plus
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13E523=TH-1



myosmart
13E522=1



Master your performance.

Ottobock introduces a new standard in prosthetic arm solutions. Built around your individual needs and requirements, myoelectric terminal devices, intelligent controls and precisely matched wrist and elbow components can be purposefully combined. The result is a highly personalized solution that adapts to everyday life and delivers intuitive, natural control of the prosthesis.

Switch hands, keep control

Different tasks sometimes require different prosthetic hands. With **myosmart plus**, you can effortlessly switch between them without changing any settings. The control remains the same, allowing you to use your prosthesis intuitively at all times.



bebionic



micchelangelo



speedhand



Greifer



wrist flex



wrist eqd



wrist short



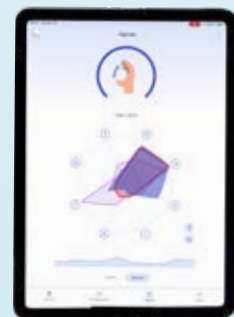
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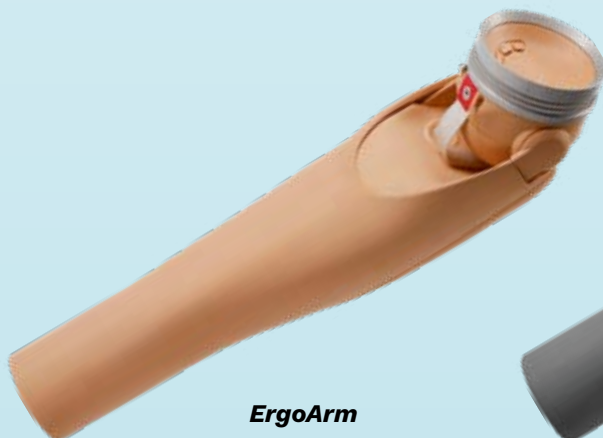
myosmart plus



myosmart



connectgrip



ErgoArm



DynamicArm



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The myosmart plus control is so intuitive that operating my hand feels effortless. Now I can fully focus on what truly matters.

Nicky

Compatible with below-elbow, above-elbow and shoulder prostheses.

With **micelangelo**, the **myosmart plus** control, the **connectgrip** app and the **DynamicArm**, CPOs and therapists have multiple options to provide a successful, reliable myo fitting that's fully customized for each user, to fit their specific needs, and unique myo signals.

micelangelo combines powerful performance with a natural appearance. It responds quickly, grips reliably and supports you in a wide range of everyday situations. With multiple glove options available, the look can be individually customized – from bold and expressive to subtle and natural.

The **micelangelo**, together with **myosmart plus** and **connectgrip**, is compatible with the **DynamicArm**, offering an ideal solution for functional, active transhumeral fittings.



Below elbow fitting



Above elbow fitting

Frequently asked questions.

I am an above elbow amputee. Can I also be fitted with a *micHELangelo* and *myosmart plus*?

Yes, the Ottobock portfolio has two elbow options, **ErgoArm** and **DynamicArm**, for amputations above the elbow. The prosthetist will provide detailed advice on all aspects of a potential fitting and benefits of the **connectgrip** app.

Can I shower or wash my hands with the *micHELangelo*?

You are not allowed to shower or bathe with the **micHELangelo**. We offer the **Skeo up daily assist** 14Y4 product designed for bathing activities. There are no standard prosthetic components for swimming; adjustments are made individually by your prosthetist. However, it is possible to wash your hands if the prosthetic glove is intact and the sleeve is long enough to prevent water from entering the prosthesis from behind.

What does a fitting with a *micHELangelo* and *myosmart plus* involve?

A **micHELangelo** and **myosmart plus** fitting involves several visits with your CPO to create a custom, well-fitting inner socket, align the socket and components, learn how to control your muscle signals and individualize the control, make adjustments, and provide training on how to best integrate the prosthesis into your daily life. Regular service visits are also recommended throughout the life of the prosthesis.

Can I operate a touchscreen with the *micHELangelo*?

No, the **micHELangelo** cannot operate a touchscreen in general. The inner and outer gloves of the **micHELangelo** are usually not recognized as "touch fingers" by most touchscreens.

How long does it take until I can use the *micHELangelo* correctly?

Success depends on individual factors such as training intensity and personal motivation. Under optimal conditions, the prosthesis can be well

integrated into the body within 3 months. The **connectgrip** app allows you to make various adjustments yourself and experiment with them without losing the settings previously made by the orthopedic technician.

How long does the battery, that is included in the socket, last?

We offer several battery options with different capacities and sizes to match the user's needs. The goal is a full day of operation, but this may vary depending on the daily use of the hand.

How do I control the *micHELangelo*?

The **micHELangelo** is a powerful and versatile myoelectric controlled prosthesis. In combination with **myosmart plus** it operates using 4 to 8 noninvasive surface sensors that contact the skin. These sensors detect residual muscle activity in the limb, allowing users to voluntarily open or close the hand, switch between grips or controlling an active rotation or elbow. In combination with the **connectgrip** app, the control is customized to the user's muscle signals. This not only enables reliable and personalized opening and closing of the hand but also bending and extending of the elbow, as well as optional additional functions.

Which movements are possible with the *micHELangelo*?

The **micHELangelo** features an opposition grip mode, where the index and ring fingers move in opposition to the thumb. This allows for an opening width of up to 100 – 110 mm for grasping objects.

In a lateral grip mode, the thumb moves laterally to the index finger. This allows you to laterally grip flat objects such as paper or credit cards. Using the finger abduction / adduction allows you to hold flat and thin (<3 mm objects) by spreading and closing the fingers. With an open palm, a flat hand position is achieved which allows you to carry, for example, a bowl quite naturally. In the natural mode the **micHELangelo** looks very natural in the resting position.



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*I imagine the movement
with my phantom hand and
michelangelo responds.
The control feels
completely intuitive.*

Lars

Where can I test the *michelangelo* and *myosmart plus*?

An initial quick test can be performed easily and without a test socket using the **myosmart cuff** – a flexible arm cuff – in combination with a demonstrator. If you already have a prosthesis, both the **michelangelo** and **myosmart plus** can be seamlessly integrated and thoroughly tested. Contact your orthopedic technician or send us a request – we will be happy to provide you with further information.

How does the *connectgrip* app support me?

The **connectgrip** app offers individually tailored control, customized to your physical capabilities. It visualizes muscle signals through biofeedback and allows you to independently adjust parameters such as speed and muscle tension. Additionally, you can create your own motion recordings to

compensate for unwanted prosthetic behavior. The neutral position of the **michelangelo** can also be individually adjusted to achieve a more natural appearance.

Does the *connectgrip* app work on smartphones and tablets?

Yes, the app works on both device types and screen sizes with Android 12 or iOS 15 and later. It is available for free in the respective app stores.



Please contact us if you have any further questions or
would like more information.