

VINCENTevolution4

Innovation and perfection



The fourth generation of the VINCENTevolution offers more functionality for everyday life at home, at work and during leisure activities to the user. The prosthesis sets new standards in ease of use and offers maximum **stability**, **gripping force** and **precision** at the lowest weight in its prosthesis class. The hand's unique construction consists of an inner skeleton, made of a light and high-strength **aluminium** alloy, or optionally of **titanium for extreme loads**. The prosthesis is enclosed by an anatomically shaped soft cover, made of a robust, elastic material for a **natural haptic**, maximum grip and robust protection of the hand. The elastic and completely covered finger base joints as well as **water protection to IP68** are further outstanding features of this prosthetic innovation. Furthermore, for the first time it is possible to directly control the grip types of the hand with up to **four EMG channels**. It goes without saying that the new hand also has an ergonomic and sophisticated design. The **VINCENTevolution4** is not just an artificial hand, it is also a complex cybernetic robot system and an exceptional **design object** at the same time. In an effort to recreate the **functionality and aesthetics** of the human hand to a large extent, a new standard in prosthetics has now been set.



made in Germany

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Natural
Multifunctional
Powerful
Waterproof



Waterproof

The VINCENTevolution4 is completely waterproof and meets the highest standard for hand prostheses. Washing hands under running water is no longer a problem, as the wrist is also sealed against the prosthesis shaft.

Strong and flexible

The flexible positioning of the finger base joints allows them to be squeezed together naturally with the hand slightly spread. This makes the hand even more aesthetic, significantly more robust and provides a pleasant haptic. In addition, this design allows further clamp grips between the finger phalanges.

Precise grips

The optimized finger and thumb tips have been given fingernails to enable even more precise gripping of small objects. The index finger is touchscreen compatible in the proven manner. In the pinch grip, the thumb and the index finger meet at any time with high precision and high gripping force. Even the smallest objects can be picked up without any problems.

25 color combinations

The colors: black, white, pearl white, transparent and natural are available in combination with titan and four different metallic colors: black, gold, blue and copper.

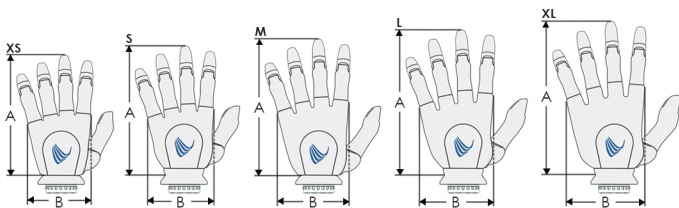
Soft and resilient

For the first time, the thumb metacarpus cover and the finger base joints are almost completely made of an elastic material. The haptics but also the grip are thus further improved. The flexible knuckles relieve pressure from the hand when supporting it and extend the life of textile cosmetic gloves.

All technical drive units are elastically encased, so there are no large gaps or openings and no visible screws. Both user and prosthesis are better protected and even more natural and aesthetically pleasing design can be reached.

Sensitive grasp

The hand can be controlled very precisely, whereby the user is additionally supported by the vibration feedback. The VINCENTevolution4, like all predecessor models, is equipped with a force feedback systems. Information about the forces acting on the finger is transmitted to the prosthesis user via vibration of the hand. In this way a simplified "sense of touch" is realized. The user can actually feel the force with which an object is gripped.



Size	XS	S	M	L	XL
Length A [mm] [inches]	140 5.51	150 5.90	160 6.29	170 6.69	180 7.08
Width B [mm] [inches]	72 2.83	75 2.95	80 3.14	85 3.34	90 3.54

Simple and variable control

For the first time, a hand prosthesis has an integrated fourchannel control, which allows up to four EMG sensors to be connected directly to the hand. The user can choose between two control variants: the single-channel control, in which all grips can be reached easily without error with only one switching signal, or the multi-channel control, in which allows to select different grips directly with additional switching signals. Controlling a bionic hand prosthesis has never been so simple and reliable in everyday situation.

The VINCENTevolution4 lightest version weighs approx. **399 g**.