

# PSYONIC

The world's fastest,  
incredibly durable,  
and first ever touch-  
sensing bionic hand.



## World's first touch-sensing bionic hand with

Losing a hand or limb is a life-changing event, and finding a prosthetic that can truly feel has long been a challenge. For many, traditional prosthetics offer limited movement and no sense of touch, making everyday tasks difficult and frustrating.

But what if a prosthetic hand could do more than just move? What if it could actually feel the objects you touch, giving you real-time feedback and control? Enter the Ability Hand by PSYONIC, the world's first touch-sensing bionic hand. This innovative device is designed to restore not only movement but also sensation, helping people regain a more natural connection with their environment.

## You've got the touch.

The Ability Hand has integrated sensors that detect pressure when you grip an object and sends a vibration to your arm to communicate the sensation. It lets you feel what you're doing, so you can work with even the most delicate objects.



When it comes to prosthetic hands, there are a lot of options out there, but the [Ability Hand](#) brings some truly unique features to the table. Here's a look at what makes it stand out from the rest:

One of the most impressive features of the Ability Hand is its integrated pressure sensors in the fingertips. When you grip something, these sensors detect how much force you're applying and send a gentle vibration to your arm, giving you sensory feedback. This means users can handle delicate objects with greater confidence and precision, something that was previously impossible with traditional prosthetics.

The Ability Hand offers an impressive variety of grip patterns, 32 in total, with 19 ready to use right now. Whether you need a strong power grip for lifting or a delicate pinch for picking up small items, this hand adapts easily. Customized grips are also available for those who want something tailored.

Weighing just 1.08 pounds lighter than the average human hand, the Ability Hand is comfortable for all-day use. All five fingers flex and extend naturally, and the thumb can rotate both electrically and manually, allowing for a wide range of motions that feel intuitive and lifelike.

Charging is simple with a USB-C port, taking about an hour to fully charge. The battery lasts 6 to 8 hours, depending on use. A neat bonus: you can even charge your phone directly from the Ability Hand. The hand is also compatible with most third-party control systems, including EMG pattern recognition and force-sensitive resistors, making it a flexible option for many users.

Durability is key for any prosthetic, and the Ability Hand doesn't disappoint. Each finger is designed to withstand blunt force impacts without breaking. Plus, it's water-resistant with an IP64 rating, so it can handle everyday spills and splashes without worry.

Want to see how the Ability Hand stacks up? Here's a quick rundown of the bionic hand's standout specs, from weight to water resistance, all in everyday terms.

- **Weight:** Just 1.08 pounds.
- **Grip force:** Up to 14.8 pounds of force (66 Newtons) for power grasp.
- **Speed:** Finger close time 0.2 seconds.
- **Battery:** 2200mAh lithium polymer battery, charges fully in about 1 hour.
- **Water resistance:** IP64 rated (protected against splashes and dust).
- **Grip patterns:** 32 total (19 pre-defined and ready to use, with more customization available).
- **Compatibility:** Works with various control systems, including EMG pattern recognition and force-sensitive resistors.



### SOFT ROBOTIC PROSTHETIC HAND USES NERVE SIGNALS FOR MORE NATURAL CONTROL

Powering on the Ability Hand is as easy as pressing a button on the PSYONIC Power Switch, which also shows battery status through colored LED lights. Switching between grips is primarily done with your muscles or with quick taps on the same button. If needed, the hand can be "frozen" to prevent accidental movements. Charging involves simply plugging in the USB-C cable to the power switch. The LED indicates charging progress, turning solid green when fully charged.

## SOFT ROBOTIC ARMBAND GIVES PROSTHETIC HAND USERS NATURAL CONTROL

The Ability Hand is priced at around \$15,000 to \$20,000, plus clinical services, which is considered affordable compared to many advanced bionic hands on the market. This price point helps make cutting-edge bionic technology accessible to more people than ever before. The company tells us that many insurance policies cover the device and clinical services.

For those whose insurance cannot cover the hand, PSYONIC has partnered with the Range of Motion Project to launch the Ability Fund. This initiative is designed to make the Ability Hand accessible to even more individuals who can benefit from advanced prosthetic technology. Through the Ability Fund, your tax-deductible donation helps provide a hand or leg at no cost to the recipient, along with all associated clinical services for the life of the device. To learn more or contribute, visit [www.ability.fund](http://www.ability.fund).

If you're exploring prosthetic options, the Ability Hand offers a compelling combination of innovation, comfort and affordability. It's a great example of how technology can empower people and redefine what's possible. For more information or to get started, visit [PSYONIC's website](#) or call 1-888-PSYONIC (779-6642).





Looking ahead, PSYONIC's technology is focused on creating an even more seamless connection between the human body and robotics by directly linking the hand to the brain, enabling users to experience localized touch and individual finger control through advanced brain-computer interfaces.

As Dr. Aadeel Akhtar, founder and CEO of PSYONIC, puts it, "Building bionic limbs is a dream I've had since I was 7 years old. Seeing our users push the limits of what is possible with the Ability Hand is why we do what we do."

The Ability Hand combines real touch feedback, durability and easy-to-use design to create a hand that moves and feels more natural than ever before. Whether it's handling something delicate or just going about everyday tasks, it acts like a true extension of the body. And with a price that makes this kind of advanced tech more accessible, it's opening up exciting possibilities for many people. Even if you haven't experienced limb loss, the Ability Hand offers a fascinating glimpse into how technology is bringing us closer to blending human ability with machine precision.

As bionic limbs like the Ability Hand advance, some argue they could shift society's benchmarks for "ability."