

# POWERGRIP

ASSISTED GRASP ORTHOSIS

# BROADENED HORIZONS

*innovative solutions for the mobility impaired*

This externally power-actuated wrist-hand orthosis, commonly referred to as a wrist splint can be utilized by those who lack hand grasp and sufficient tenodesis-enabling wrist extension strength. The PowerGrip is indispensable for providing the ability to pickup, grasp, hold, and manipulate objects.



## WHO WOULD THE POWERGRIP BENEFIT?

Anyone unable to pickup or grasp objects and more specifically with wrist extension strength of 0-3 (on 0-5 muscle grading scale) and little or no finger flexion. Typical pathologies include:

C-4, C-5, and some C-6 level Quadriplegics (spinal cord injury) and many others such as

Polio, stroke, ALS, brachial plexus injuries, muscle disease, cerebral palsy, multiple sclerosis and amyotrophic lateral sclerosis

For those also lacking sufficient shoulder or bicep strength to aretouch their hand to their chin, the new JAECO Wilmington Robotic Exoskeleton is a perfect complement to the PowerGrip Assisted Grasp Orthosis

## WHAT CAN THE POWER GRIP HELP YOU DO?

- Eating with normal utensils and drinking from a can, bottle, or glass
- Enjoying a sandwich or apple without having to cut it up, other finger foods, even chips with dip!
- Shaving, brushing teeth, combing hair, or even putting on makeup
- Opening doors, drawers, window blinds, etc.
- Shredding secure, private documents
- Writing, drawing, painting, engraving, soldering, wood burning, etc.
- Picking up anything from a book to a business card
- Putting on and adjusting a baseball cap, eyeglasses, or sunglasses - even makes scratching an inch more effective
- Pressing buttons on anything such as a telephone, remote control, security keypad for door opener, or even hand controls.



## FEATURES

**Full Insurance Coverage:** Existing Medicare/Medicaid insurance code (L3904) simplifies acquisition and reimbursement process

**Functional Independence:** The correct pressure and speed to provide good function without damaging fingers lacking sensation.

**Ease of Use:** To grip an object, intuitively hold button to close fingers until actuator stops running.

**Versatile Control:** Accepts any two standard adaptive switches

**Convenient to Wear:** Lightweight power actuator mounts directly to splint for an ease to don/doff. Only one wire easily routed through users shirt sleeve.

**Durable:** Resulting from detailed improvements over 3 years of real-world use by the developer!

**Easily Maintained:** Primary components subject to wear or damage (wire & plugs) can be quickly and inexpensively replaced

**Cognitive Muscle Control:** New Myoelectric Switch Control now available! Myoelectric sensors placed on one or two functional muscles replace switch control.

**Retrofit Possible:** Kit can be mounted to most available ratchet or tenodesis based wrist-hand orthosis

## HOW TO OBTAIN

1. Physician or Occupational Therapist identifies appropriate clients whom PowerGrip will benefit, writing prescription and/or letter of medical necessity if necessary. Therapist helps client choose most appropriate adaptive switches for open/close control (see options).
2. Orthotist orders kit from Broadened Horizons, Becker Oregon (800-866-7522), or JAECO Orthopedics (501-623-5944). Splint is fabricated to client measurements or mold supplied. Orthotist performs final fitting of splint to client, and bills insurance using L-Code L3904. Find a local orthotist at [www.ohandp.com/facilities/](http://www.ohandp.com/facilities/) or in some cases, such as when a local orthotist is unavailable, a skilled local therapist has filled this role.
3. Occupational Therapist often sees client for training, mounting/positioning switches on wheelchair if not performed by orthotist, adapting eating utensils if necessary, other ADL goals, etc.

**GIMPGEAR**



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[www.BroadenedHorizons.com](http://www.BroadenedHorizons.com)