

MYOPRO 2 GENERAL FAQs

PRODUCT INFORMATION

What MyoPro 2 models are available?

- There are three distinct MyoPro 2 models with powered joint(s). The joint(s) are myoelectrically controlled by the wearer's own muscle signal.
 - **MyoPro 2 Motion E:** An elbow-wrist orthosis with a powered elbow, and static, rigid wrist support.
 - **MyoPro 2 Motion W:** An elbow-wrist orthosis with a powered elbow and a multi-articulating wrist (MAW) with flexion/extension and supination/pronation. The passive MAW may be pre-positioned by the user to increase task-specific function.
 - **MyoPro 2 Motion G:** An elbow-wrist-hand orthosis with a powered elbow, passively adjustable multi-articulating wrist (MAW), and a powered, 3-jaw-chuck grasp.

What is new about the MyoPro 2?

- **Battery:** Interchangeable battery; Users can replace a drained battery for a charge one while wearing the device. 4+ hours of continuous use on one battery.
- **User Interface:** Graphical labeling of control buttons. Repositioned to the anterior of the arm for clearer visibility to the User while wearing the device.
- **Sensors:** Electrical and mechanical redesign for improved performance.
- **Electronics:** Streamlined electronics circuitry for improved reliability.
- **Harness:** Increased structure to the shoulder saddle for product longevity. Lower profile design for aesthetic and comfort.
- **Finger Orthosis for the Motion G:** Easier to put on. More secure latching mechanism. Improved robustness of materials.

What is the MyoPro 2 warranty?

- All MyoPro 2 hardware & electronics, battery charger, and carrying bag are covered by a 3-Year Warranty. Orthosis soft goods (pads, straps, and harness), and the battery are covered by a 1-Year Warranty. After the warranty period has passed on a particular item, a User & Provider can resubmit to insurance for replacement. The warranty period on the item would then restart at the date of shipment to the Provider.

What is needed to program a MyoPro 2?

- The MyoPro 2 is programmed with a software program called *MyConfig*. The software is compatible with Windows operating systems from Windows 7 and above. It connects to the MyoPro 2 via a Bluetooth wireless connection. All MyoPro 2s come with a laptop computer equipped with MyConfig. The software can also be installed on other clinical computers. Myomo is happy to work with your facilities' IT department to organize the software installation if necessary.

How much can a MyoPro 2's elbow lift?

- The MyoPro 2's elbow motor offers approximately 7 Newton-meters of torque. A torque value divided by a distance value calculates a force value. Since each MyoPro User's forearm and hand will be a different length, the amount of lift force should be calculated individually for each User. The amount of assist also depends on how much strength (if any) the User has in his/her biceps, and the weight of the User's arm.
- *For example:* an adult female in the 50th percentile would have a forearm and hand length that would sum to approximately 17 inches (0.43 meters). 7 Newton-meters divided by 0.43 meters equals 16 Newtons (3.6 pounds) of lifting force.

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How much can the MyoPro 2 Motion G's hand hold (pinch force)?

- The grasp motor offers approximately 1.1 Newton-meters of torque. Torque divided by a distance calculates a force. Since each MyoPro User's hand will be a different size, the amount of pinch force at the finger tip of the User should be calculated individually for each User. The assist also depends on how much strength (if any) the User has in his/her wrist flexors.
- *For example:* an adult male in the 50th percentile would have an index finger length of approximately 4 inches (0.1 meters); 1.1 Newton-meters divided by 0.1 meters equals 11 Newtons (2.5 pounds) of pinching force.

I see that the MyoPro 2 Motion G's finger orthosis only connects the first and second finger to the hand motor – why aren't all 4 fingers connect?

- The common, 3-Jaw Chuck grasp pattern, we believe, provides Users with a combination of smaller pinch and larger grasp functional capability for Myomo's first assistive grasp development.
- For users with wrist tone, we have seen them face greater challenge to control muscle activation and relaxation within their forearm when all 4 fingers are part of the grasp pattern.
- We very much look forward to future product development for the hand, and aim to incorporate all fingers in time.

Is Myomo's technology similar to electrical stimulation?

- The MyoPro does NOT stimulate a User's muscles with an external electrical impulse. This orthosis uses passive sensors on the surface of the skin to detect electrical signal *within* a muscle (electromyography).

Does a MyoPro use dry electrodes or wet electrodes?

- The sensors for a MyoPro are dry; there is no adhesive or gel needed for use.

Who do I contact for product support?

- Call Myomo Customer Support at +1-617-651-0226, or email: support@myomo.com

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CLINICAL INFORMATION

What is the MyoPro 2's Intended Use?

- The MyoPro 2, an upper limb orthosis, is a compensatory device to increase ability to perform functional tasks with the affected limb. The user voluntarily activates movement of the orthotic device with their remaining electromyography (EMG) muscle signal.

What is the MyoPro 2's Indication for Use?

- The MyoPro 2 is indicated for use by adults diagnosed with long term muscle weakness OR partial paralysis.

What are the MyoPro 2's Contraindications?

- The MyoPro 2 is contraindicated for use as follows:
 - Insufficient myoelectric signal output from at least one muscle group needed to activate the desired powered joint (for example, biceps or triceps signal to extend the affected elbow).
 - Severe shoulder subluxation.
 - Excessive pain in shoulder, arm or hand during facilitated range of motion.
 - Contraindicated during recovery from acute injury such as trauma, infection, or skin condition.
 - Upper extremity contracture(s) that prevent functional movement to benefit from the orthosis.
 - Rigid spasticity in the affected muscle groups.
 - Arm circumferences and lengths that are outside build specifications required to be fit with the orthosis.
 - Cognitive or behavioral impairment that would inhibit safe use of the orthosis.
 - Other medical issue which interferes with safe use of the device for functional improvement.

How does a clinician begin working with a potential MyoPro 2 user?

- A potential MyoPro 2 user may be referred by a physician or therapist, or the O&P practitioner may already have a patient he/she is working with. The first step is to speak with a Myomo representative for guidance. A thorough evaluation is essential for a successful outcome and Myomo provides the necessary training and resources throughout the process.

What training is available to O&P practitioners and Therapists?

- Training is required for clinicians to provide a MyoPro 2. The Myomo clinical support team provides remote and in-person training sessions to O&P clinicians and Occupational Therapists as appropriate for evaluation, casting, fitting, therapy, and user follow-up.

How much therapy is required, or what therapy is recommended?

- As therapy is essential for an optimal outcome, Myomo recommends new MyoPro 2 users work with a trained therapist to ensure a progressive therapy, specific to the user's needs and goals. Therapy varies as each individual will progress differently and users often may need two months or more of therapy.

Is the MyoPro 2 covered by medical insurance?

- Claims have been paid by most major commercial payers, as well as Worker's Compensation and the Veteran's Affairs (VA).

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What is the research behind the MyoPro technology?

- Myomo is committed to research, and continues to grow the body of medical evidence which supports the use of this technology. At present, we have ongoing research with The Ohio State University, Northwestern University, and others. Please visit our Scientific Evidence page at www.myomo.com for more information. Additional documentation on MyoPro & electromyography (EMG) related research is available upon request.

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