

Myoelectric System by Steeper

Featuring the Myo Kinisi Myoelectric Hand





Myo Kinisi

The Myo Kinisi is a myoelectric prosthetic hand, externally controlled by the electric signals naturally generated by a user's muscles. Optimally powered using high-capacity battery systems, it is recommended for use with the S-Charge System fabricated within the socket.

Designed for the everyday, the Myo Kinisi offers a secure grip, high speed open and close, and a natural appearance. Whether out and about with friends, or relaxing at home, this myoelectric solution promotes bi-manual manipulation of objects for performing daily activities.

It is suitable for patients at levels equivalent to transradial and more proximally, in both unilateral and bilateral applications. The hand is available in three sizes and four wrist and thread variations, to suit a broad range of clinical presentations.

Dependant on how the user varies their muscle activity when using the device, this will control the high-speed grasp and strong maximum grip force with ease. The Steeper Configuration Device provides a simple set up process to customize the standard hand settings to suit each individual user's ability and requirements.

A durable hand shell encloses and protects the hand's internal mechanism, followed by the Elegance Plus reinforced silicone glove, specifically designed for the Myo Kinisi, which provides an enhanced aesthetic finish in 19 TrueFinish™ color shades.

Powered by the high-performance Steeper S-Charge System with the 3500S battery pack, this upper limb build system provides the user with a complete solution offering all-day, simplified functionality.

The Myo Kinisi Hand

Durable | Reliable | Easy to Use

Grip strength increase pattern allows the user to confidently increase their grip force when required

Auto-grip feature enables the user to have a secure grip on unstable objects

Compatible with a range of industry standard inputs including **myoelectrodes**, switches, force sensitive resistors and **linear transducers**

Optimally powered using the **Steeper S-Charge System**, featuring industry leading battery capacity

Features an **internal manual safety mechanism** to release the hand's grip for patient reassurance

Five programmable control modes

Durable **PVC hand shell**

Integrated **function button** to turn the hand on/off and enable **auto-grip**

Supercapacitor technology provides efficient control and power conservation

Strong **titanium chassis** for durability

Electronic 'gear change' allows power to be stored and released on demand

Reinforced Elegance Plus silicone cosmesis, designed specifically for use with the Myo Kinisi with enhanced detailing

Technical Information

Myo Kinisi with Quick Disconnect Wrist
 (Performance figures have been measured with a fitted hand shell)

Size	Compatible Wrist Sizes	Maximum speed when closing from fully open	Grip Strength	Maximum Opening Width	Length (Base Hand Shell to Finger Tip)	Operating Voltage
7 ¼	1 ¾" (45mm)	220mm/s	c.90N	4" (100mm)	6.7" (170mm)	7.2V DC
7 ¾	2" (50mm)	220mm/s	c.90N	4" (100mm)	6.7" (170mm)	7.2V DC
8 ¼	2 ⅛" (54mm)	220mm/s	c.90N	4" (100mm)	(6.89") 175mm	7.2V DC

Wrist & Thread Options

Quick Disconnect Wrist

The EQD wrist allows the patient to quickly rotate and remove or attach the hand as required.

Friction Wrist

The Friction Wrist allows user-adjustable friction control and rotation in a lightweight design.

North American Thread

Short wrist with a ½" x 20TPI thread.

European Thread

Short wrist with an M12 x 1.5mm thread.

For further information on how to order the Myo Kinisi and wrist options, please refer to the Steeper Upper Limb Catalogue or contact Customer Services.

Steeper Myoelectrodes

The Myo Kinisi is designed to work in collaboration with Steeper's state-of-the-art electrodes, which have undergone development to improve their performance, and offer outstanding capture and amplification from signals as low as 10µV.

Proportional output and in-built Electrode Gain Control (EGC) permits fine control of the Kinisi and other terminal devices, alongside biocompatible titanium skin contacts for superior conductivity. Interference protection shields from common power sources and high frequency emitting devices.

The Steeper myoelectrodes are suitable for both child and adult upper limb builds, and are available in 50 or 60Hz. For more information on our electrodes please refer to our Upper Limb Catalogue or visit www.steeperusa.com.





Steeper Configuration Device

The Myo Kinisi can be set up in combination with the Steeper Configuration Device - a programming hub designed to allow one of five modes to be easily selected and adjusted.

The Steeper Configuration Device allows the clinician to customize the standard hand settings to suit each individual patient's ability and requirements. A variety of parameters can be adjusted, including enabling/disabling auto-grip, adjusting input thresholds and altering opening/closing speed.

For more information on the Steeper Configuration Device visit www.steeperusa.com.

Myo Kinisi Programs

The Myo Kinisi has five mode options. Each mode provides a different variety of characteristics allowing mode selection based on the need and ability of the user. The modes vary according to number and type of signal required to operate the hand. A brief overview of the modes available are as follows:

Auto-Close Mode

A simple mode where a signal rising above a pre-determined threshold will open the hand, and removal of the signal will close the hand.

Quick Open Mode

In this mode a fast-rising signal input will open the hand, and a slow-rising signal will close the hand.

Dual Elec Mode

The only mode to use two inputs to provide proportional or threshold control over opening and

closing the terminal device. It is the default mode on the Myo Kinisi, and also offers an auto-grip function to tighten the grip on slipping objects.

Alternate Mode

In this mode a signal above a pre-set threshold will open the hand, a subsequent signal occurring after a pre-determined period of time will close the hand.

Pulse Mode

In this mode, a short burst input signal will open the terminal device; to close the device the user must provide a long burst signal.

Information on how to program the hand can be found in the Configuration Device Programming Guide, available to download from www.steeperusa.com, or can be requested via our Customer Services team.



Steeper S-Charge System

The S-Charge System is a user friendly internal battery system with an OLED display and a magnetic charger, that is fitted into a prosthetic forearm. This allows the user to easily activate, deactivate and charge their prosthesis, while confidently monitoring the power status during use on the display via real-time battery life icons.

The S-Charge System can be easily installed into a variety of limb builds, including the Steeper Espire™ Classic Plus elbow. The system enables the use of powered devices such as electronic elbows, powered wrist rotators, multi-articulating hands, and terminal devices such as the Myo Kinisi myoelectric hand.

Fully charged within 5 hours the batteries provide 3500mAh to the terminal device; this capacity can provide the user with over four days of use depending on their activity level and devices used. It also features Automatic Sleep Mode activation to save power.

For more information on the Steeper S-Charge System please visit www.steeperusa.com



Elegance Plus - Reinforced Silicone Cosmesis

We have adapted and developed our Elegance silicone gloves, and are pleased to introduce the new Elegance Plus cosmesis to our cosmetic glove range.

The Elegance Plus gloves have been specifically designed for use with the Myo Kinisi, and can be used with Steeper cable operated hands as well as functional hands from other manufacturers.

One of the new features is the integrated, reinforced inner mesh layer within the glove; providing a highly robust cosmesis with improved tear resistance - particularly suitable for higher activity patients.

Crafted using multiple layers of advanced silicone material, we have also enhanced the cosmetic finish of the glove, with additional detailing on the palms, knuckles, nails and joints.

Easier to don and handle in comparison to the first generation Elegance glove, the Elegance Plus range is available in 19 shades of our advanced micropigmentation TrueFinish™ for added realism and depth.

Please refer to our Upper Limb Catalogue for ordering information.

For ordering information on all of the devices listed in this brochure, please see their individual quick information sheets, refer to the Steeper Upper Limb Catalogue, or contact our Customer Services team for more details: **sales@steeperusa.com** or via phone on **(+1) 210 481 4126**.