



Esper Hand 2

Technical information

Esper Hand 2

A self-learning, multi-articulating bionic prosthetic hand with five individually powered digits and a proprietary control app.

CUSTOMIZABLE

Swappable palm covers for individual personalization

NATURALISTIC

Flexible, human-like fingers to better conform to objects

PRACTICAL

All fingers touchscreen compatible, precision grip manipulation and tenacious grip surfaces

POWERFUL

Battery indicator light and dorsal control switch

LIMITLESS

Add, edit, and remove unlimited custom grips

BLUETOOTH COMPATIBLE

Mobile app allows prosthetists and patients to control the hand, train muscles and adjust grips and sensors

PROTECTED

All fingers are easily replaceable in minutes. Hand is protected by a 24 month warranty²

WATERPROOFED

IPX5 standard for safe, everyday contact with water

MULTI-ARTICULATED

Powered flexion, extension, and thumb opposition. Passive flexion and thumb reposition

CROSS-COMPATIBLE

Works with most third-party sensors, batteries and control schemes³

VERSATILE

Esper QDW, Low Profile Short Wrist Connector (SWC), Steeper QDW wrist attachment options

Ordering information

E	H	S	L	O	W	B
PRODUCT CODE		HAND SIZE	SIDE	WRIST OPTION	ROTATOR OPTION	HAND COLOR

HAND SIZE

S Small

L Large

SIDE

L Left

R Right

WRIST OPTION

O Esper QDW

S Standard QDW

L Low profile SWC

F Flexion wrist with Esper QDW²

ROTATOR OPTION

O No waterproofing

R Water

HAND COLOR

B Black¹

¹ Additional wrist attachment options and features coming soon!

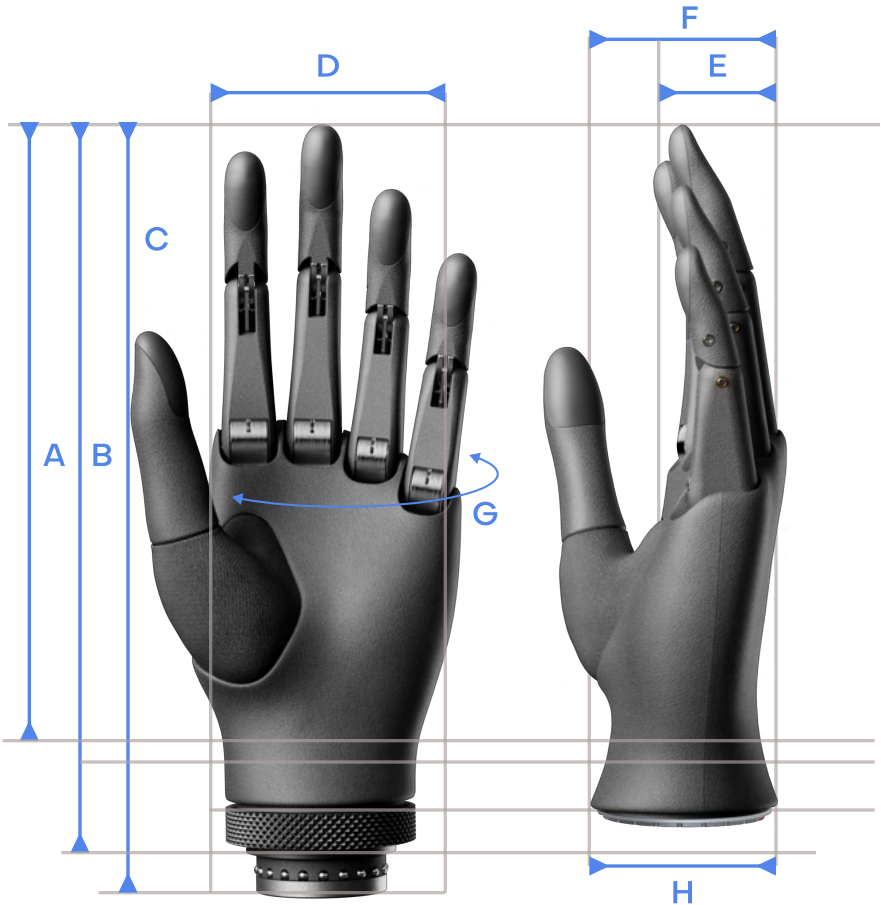
² Extended warranty options available

³ The Esper Hand is compatible with a wide variety of myoelectric components. See the Esper website for full details.

Technical specifications

LOAD LIMITS ⁵		S	L
Maximum carry load	Static	30 kg (66 lb)	35 kg (77 lb)
Maximum <i>functional</i> carry load	Dynamic	20 kg (44 lb)	25 kg (55 lb)
Vertical push down load	Through knuckles	30 kg (66 lb)	30 kg (66 lb)
Individual finger carry load	Dynamic	10 kg (22 lb)	10 kg (22 lb)
Fingertip extension load		2 kg (4.4 lb)	2 kg (4.4 lb)

DIMENSIONS & WEIGHTS		S	L
A	Length from thumb base to tip of middle finger	160 mm (6.30")	185 mm (7.28")
B	Overall hand length	183 mm (7.20")	195 mm (7.68")
C	Hand + wrist length	QDW 208 mm (8.19")	220 mm (8.66")
		SWC 190 mm (7.48")	202 mm (7.95")
D	Palm width	70 mm (2.76")	83 mm (3.27")
E	Palm depth	27 mm (1.06")	29 mm (1.14")
F	Wrist diameter	48 mm (1.89")	55 mm (2.17")
G	Knuckle circumference	180 mm (7.09")	210 mm (8.27")
Weight	Hand + QDW	460 g (16.23 oz)	611 g (21.55 oz)
	Hand + SWC	425 g (14.99 oz)	576 g (20.32 oz)



GRIP FORCES	S	L
Precision pinch	6 N (1.35 lbf)	12 N (2.70 lbf)
Tripod	10 N (2.25 lbf)	16 N (3.60 lbf)
Power / fist	15 N (3.37 lbf)	30 N (6.74 lbf)
Key / Lateral	4 N (0.90 lbf)	9 N (2.02 lbf)

Maximum opening	78 mm (3.08")	100 mm (3.94")
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WRIST ROTATION RANGE	
QDW	Unlimited
SWC	350°

Time from open to full power grip	0.99 secs
Water- and dust-proof rating	IPX5
Operating temperature range	-20°C to 40°C (-4°F to 104°F)
Operating voltage	6 – 8.4 V (7.4 V nominal)
Maximum current	8A (S) / 8A (L)
Time to full charge	Up to 5 hours



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Esper Hand 2 Demo

⁴ Use of the Esper Hand in conditions other than those foreseen by the Manufacturer invalidates all liability of the Manufacturer and the validity of the warranty conditions.