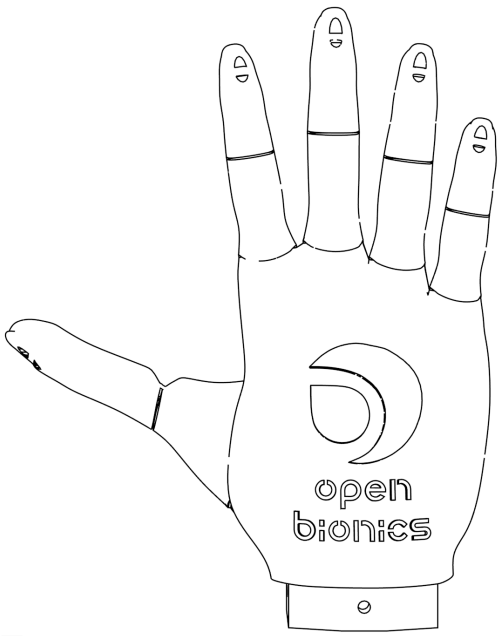
Robotic Hand Development Kit

Description

The Ada Hand is a robotic hand from Open Bionics. It comes as a kit and can be assembled in around 1 hour using standard tools. The Ada hand houses all of the actuators required to move the fingers as well as its own custom control printed circuit board (PCB), the Almond V1.2. The PCB is based around the ATMEGA2560 microcontroller.



Features

5 degrees of freedom
Open source
Arduino IDE compatible
USB Programmable

Key specifications

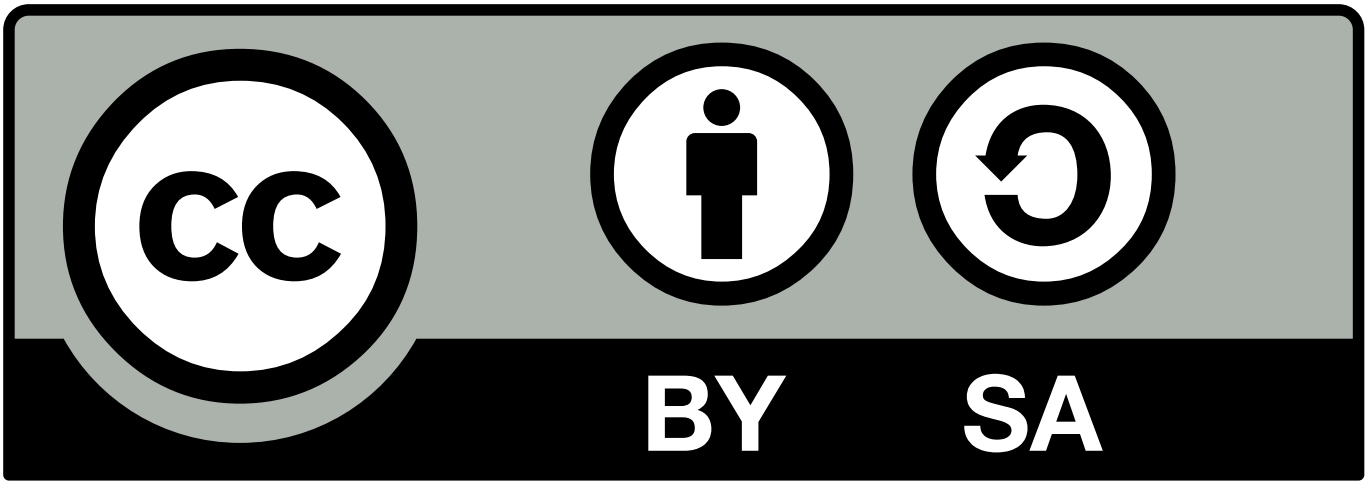
Mass: 380 g
Major dimensions: 215 x 178 x 58 mm
Operating voltage: 12V

Applications

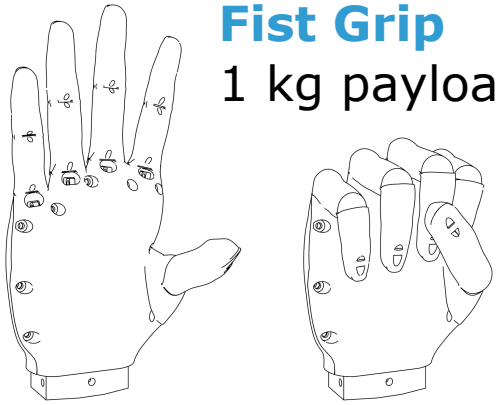
Perfect for the scientist, researcher, roboticist, educator or hobbyist. For example uses, please see the User Project section of our forum at www.openbionics.lefora.com

This is not a medical device.

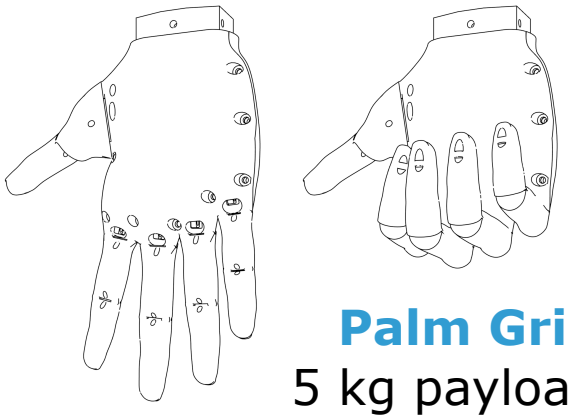
License



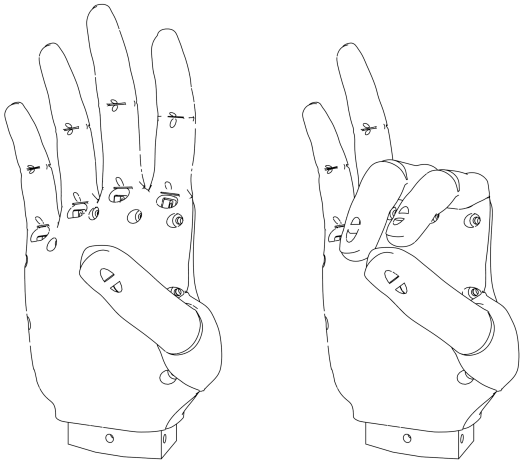
Fist Grip
1 kg payload



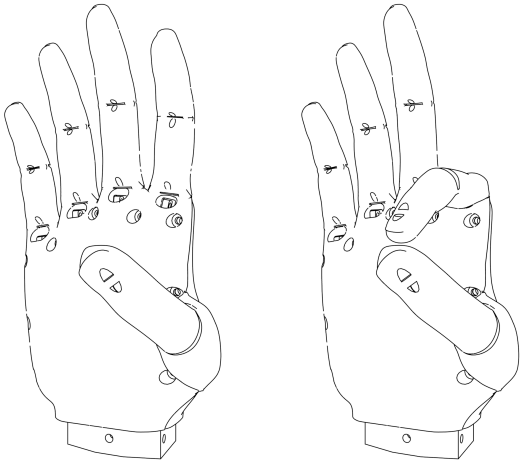
Palm Grip
5 kg payload



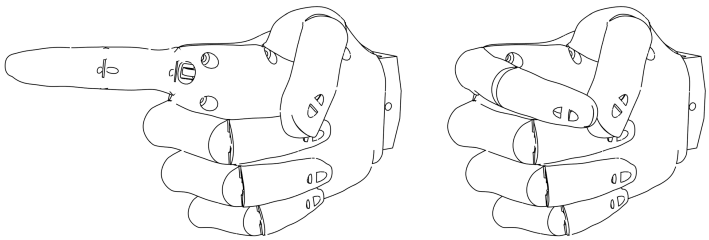
Tripod Grip
0.7 kg payload



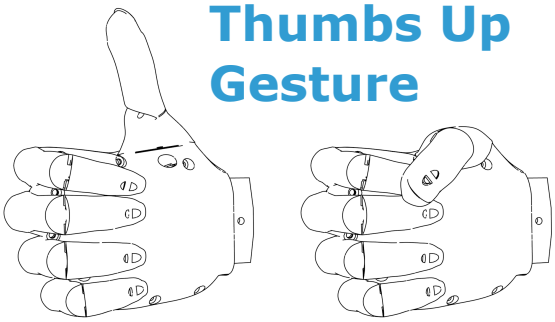
Pinch Grip
0.4 kg payload



Point Gesture

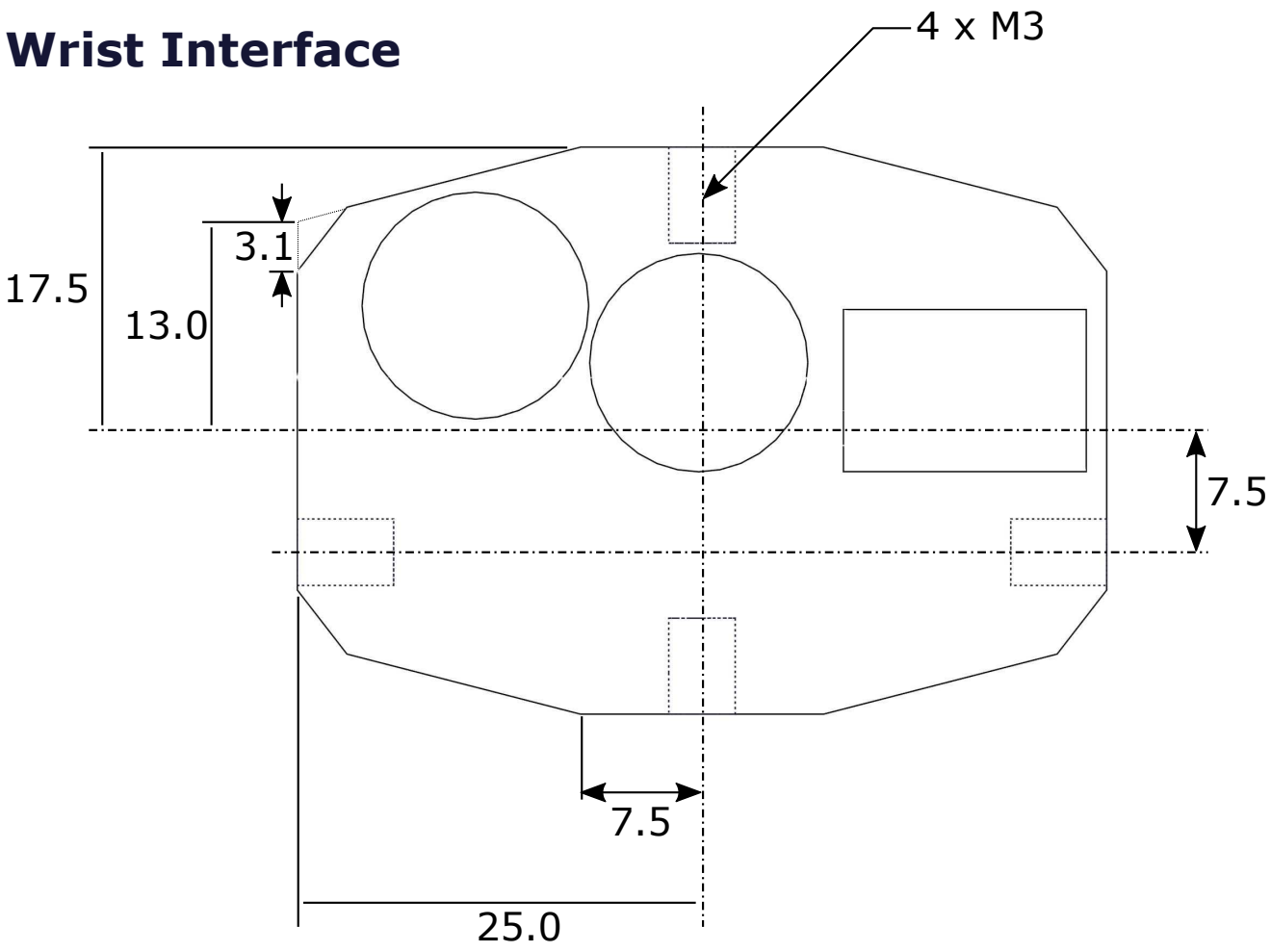


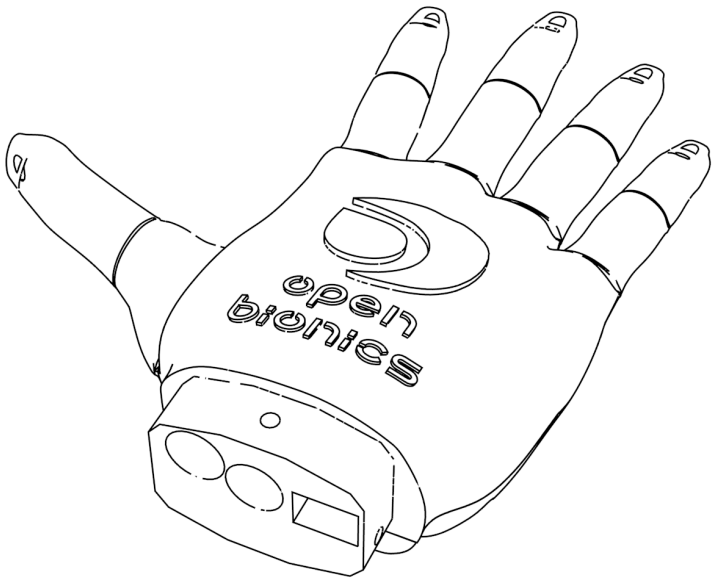
Thumbs Up Gesture



Payloads are approximate and assume use of silicone fingertips

Wrist Interface

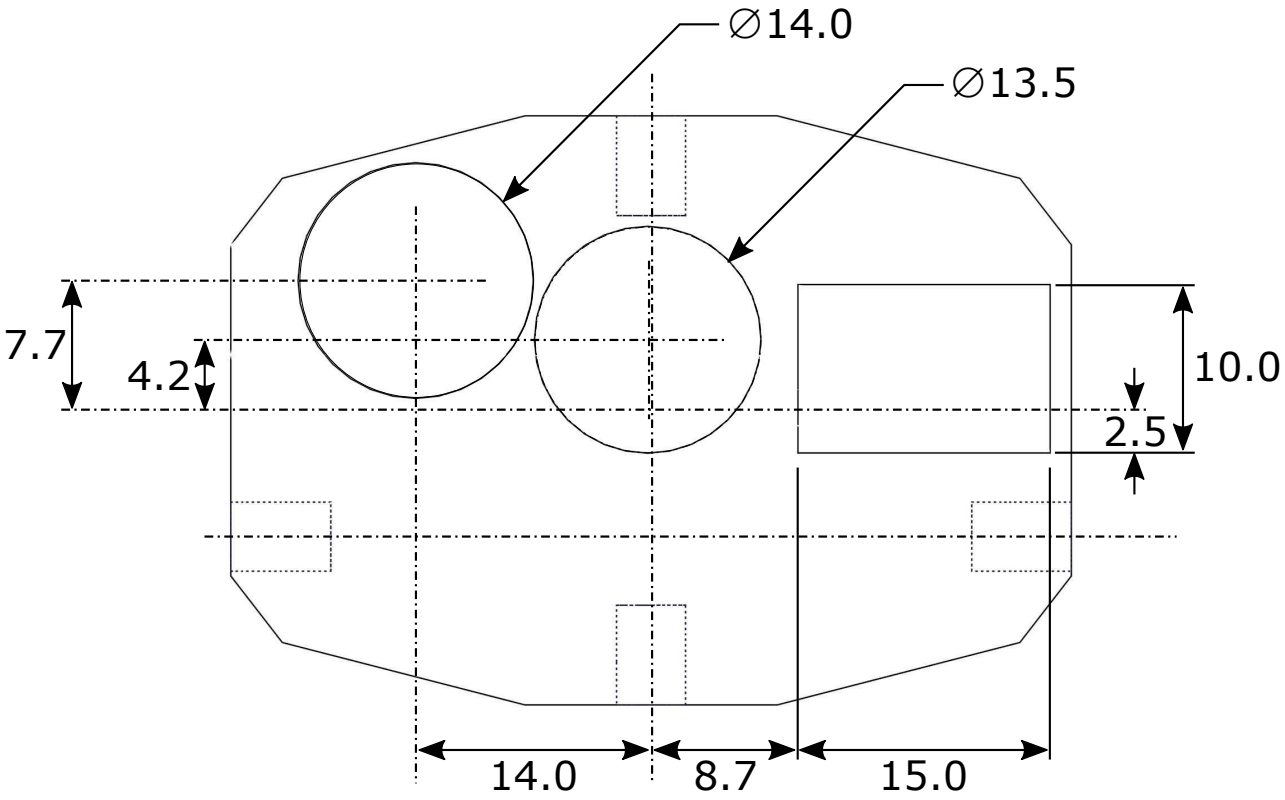




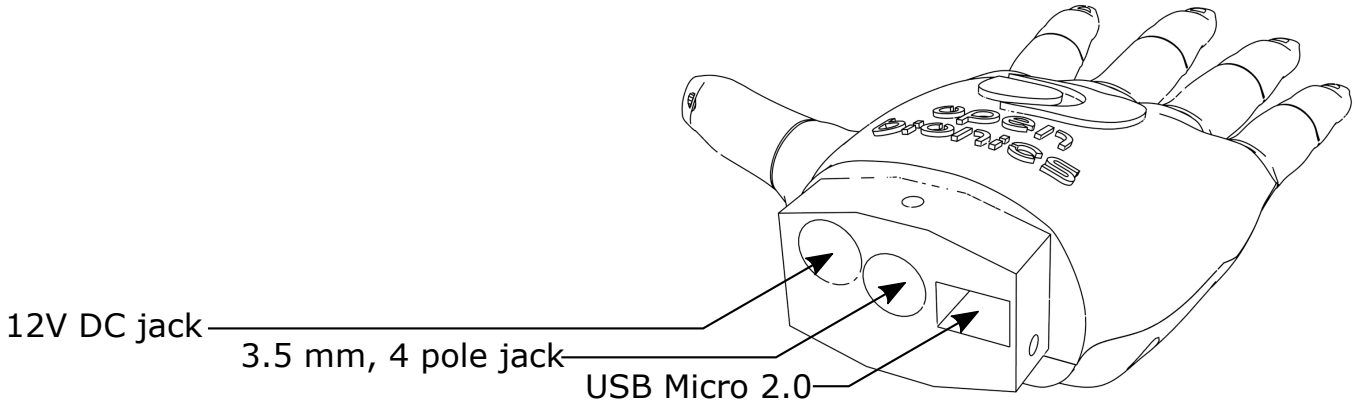
Wrist connector depth: 15 mm

All units in mm

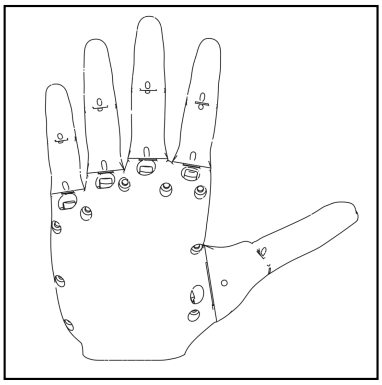
Wrist Cabling



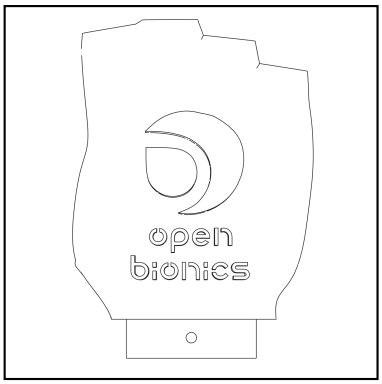
All units in mm



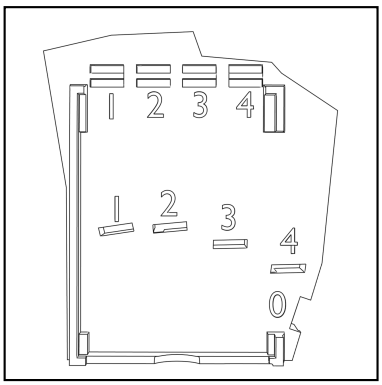
Components



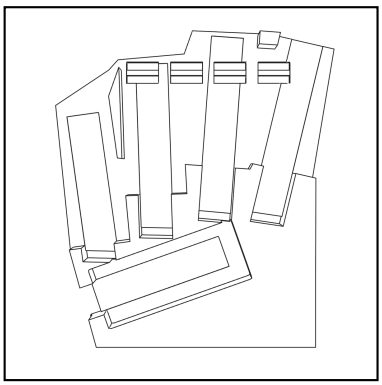
Palm
Material: Ninjaflex
Mass: 160 g
Mass with support: 200 g
Print time: 26 hours
Bounding box: 180 x 200 x 45 mm



Back Cover
Material: PLA or ABS
Mass: 57 g
Mass with support: 70 g
Print time: 6 hours
Bounding box: 130 x 95 x 40 mm



PCB Tray - Upper
Material: PLA or ABS
Mass: 6 g
No support required
Print time: 40 minutes
Bounding box: 80 x 70 x 10 mm



PCB Tray - Lower
Material: PLA or ABS
Mass: 10 g
No support required
Print time: 40 minutes
Bounding box: 80 x 70 x 10 mm