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.
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**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

12V DC jack
3.5 mm, 4 pole jack
USB Micro 2.0
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