



A Low-cost & Highly Adaptive Robotic Hand

with four fingers and sixteen independent torque-controlled joints, it's the perfect platform for grasp and manipulation research and education.



FEATURES

- # Light weight and portable anthropomorphic design
- # Low-cost dexterous manipulation with applications in research and industry
- # Multiple ready-to-use grasping algorithms capable of handling a variety of object geometries
- # Capable of holding up to 5 kg
- # 16 independent torque-controlled joints (4 figers x 4)
- # Allegro Hand Console Application for simulation-based algorithm prototyping and hardware testing
- # Support for real-time control and online simulation



Specifications

Number of Fingers Degrees of Freedom Actuation Four (4) fingers including a thumb

4 fingers x 4 = 16

Type DC Motor Gear Ratio 1:369 Max, Torque 0,70 Nm

Max. Torque 0.70 Nm
Max. Joint Speed 0.11sec/60degree

Mass

Finger 0.17 kg Thumb 0.19 kg

Total

1.08 kg Potentiometer

Joint Resolution Measurement

Resolution(Nominal) 0.002 deg

Communication

Type CAN Frequency 333 Hz

Payload

5kg

Power Requirement

12~24V, 120W

Purchase Options

Included

- · Allegro Hand (left or right)
- · Allegro Hand Console Application(linux/Windows)
 Download Instructions
- · Allegro Hand Console Application(linux/Windows) Single-user license
- · AllegroHand stand
- · CAN/Power cable *terminated athand-end only
- · 2mm hex wrench
- · Spare screws and wire terminals
- · Hard plastic case
- · Power supply
 - * A CAN Interface is not included with the Allegro Hand.



System Requirement

CPU RAM

OS

Intel Core™2 Duo or higher

2GB or more 2GB or more

HDD 2GB or more
Graphics OpenGL 3.0 HW Acceleration enabled

64Mb of videos RAM or higher

MS Windows XP, 7 & 8, Linux (ROS)

CAN Interface NI / Peak

* Any CAN interface can be user-configured

for use with the AllegroHand.

Other Software Windows: Visual Studio *optional





wiki.wonikrobotics.com /AllegroHandWiki

- # Technical Support
- # Applications
- # Downloads
- # User Forum







Facebook

Facebook's robotic institute AI with robot machines



| EPFL

Ultra-fast robotic hand catching the object on the fly



UPC

Grasping bulky objects with two anthropomorphic hands

Cooperation with CLIENTS WORLD WIDE

Allegro Hand have worked with various research institutes and corporations.





















Queen Marv









