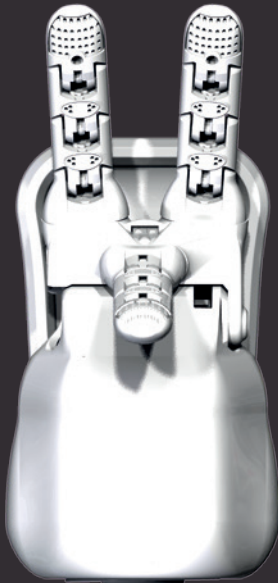




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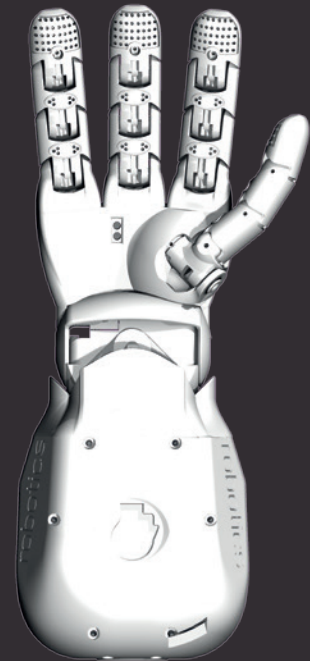


We love everything Robotic and
we work to make it happen.

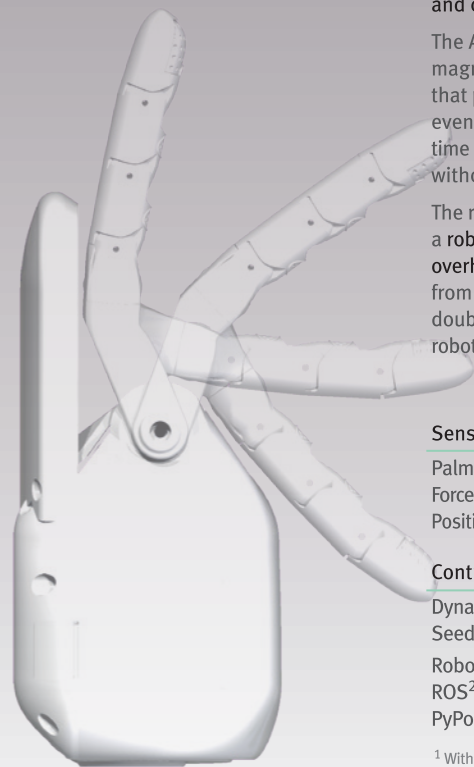
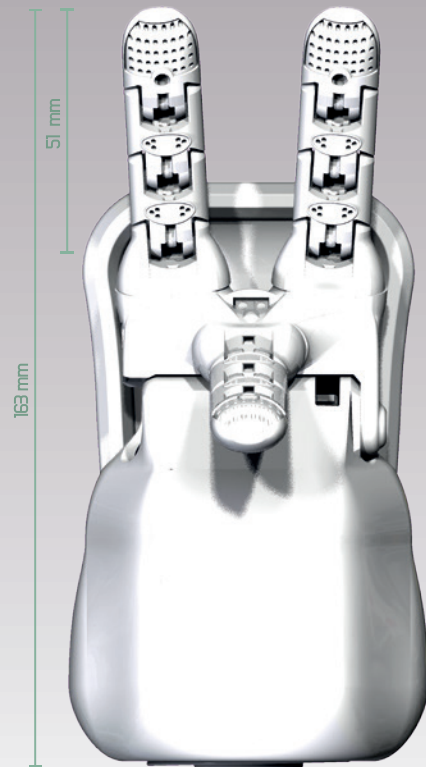
Seed Robotics is committed to
empowering Researchers and Robot
creators with tools to build the next
generation of Humanoid Robots.

Safe . Robust . Social

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SR-RH4D Ares Hand



Built for Robustness, Reliability and overall Heavy Duty¹ tasks

The Ares hand introduces a magnetic detachment system that **protects finger joints** in the event of impacts. On 80% of the time it is capable of self-recovery without user intervention.

The reinforced shell design offers a **robust elbow coupling** and an **overhanging guard** to protect from severe impacts. The guard doubles as a support when the robot is getting up from the floor.

Sensing

Palm optical distance sensor
Force sensing on actuated joints
Position feedback on actuated joints

Control

Dynamixel Protocol 1.0 & 2.0
Seed Robotics SHSP Protocol
Robotis Darwin OP/2 Framework
ROS²
PyPot²

Easy to use with Advanced sensing capabilities

The **under actuated design** conforms to objects of different shapes and sizes, an efficient approach for motion that simplifies the design of control algorithms.

All actuated joints have **force sensing** and a **palm sensor** can detect the presence of objects. These enable advanced manipulation capabilities and safe interaction with the environment.

Actuation

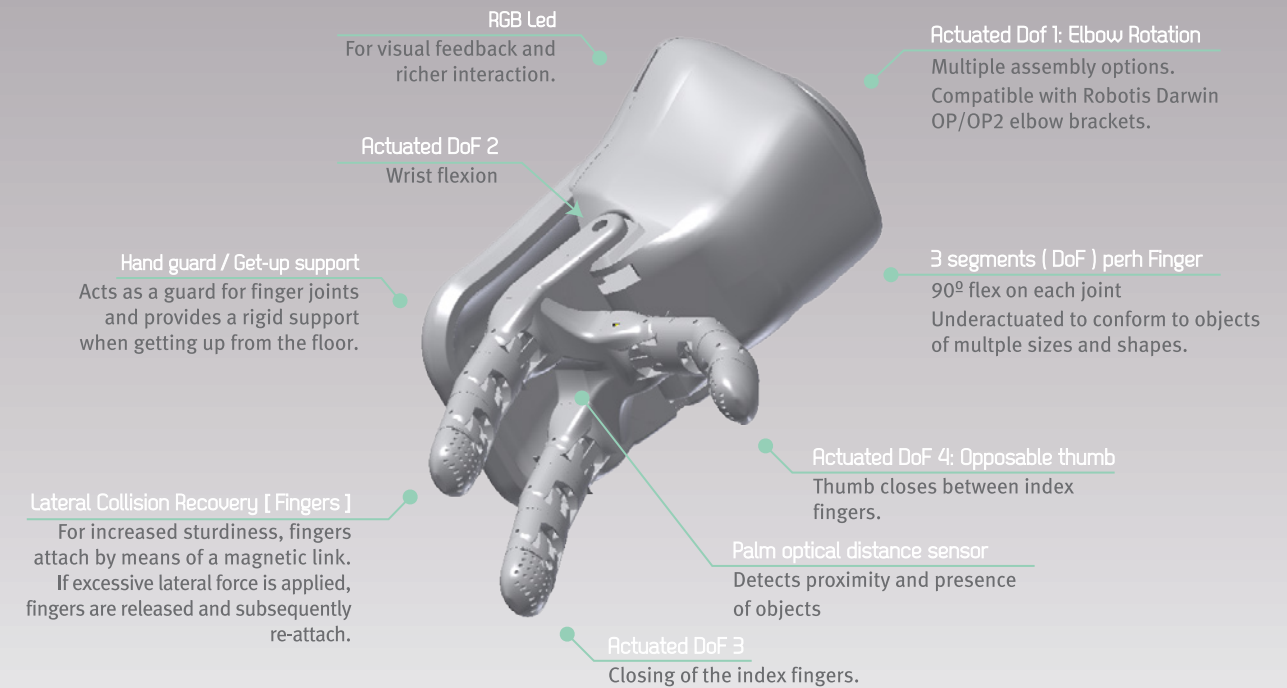
Total degrees of freedom: 11
Actuated degrees of freedom: 4
Powerful actuators: Stall torque 60Ncm

Technical Data

Cortex M4 @ 96Mhz
Power: 9V-24V. Weight: 220g
Half Duplex TTL/RS485 or Full Duplex TTL interface up to 4.5Mbps
USB Interface up to 10 Mbps

¹ Within mechanical and safety limits as per the specifications.

² ROS and PyPot are supported using third-party libraries



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