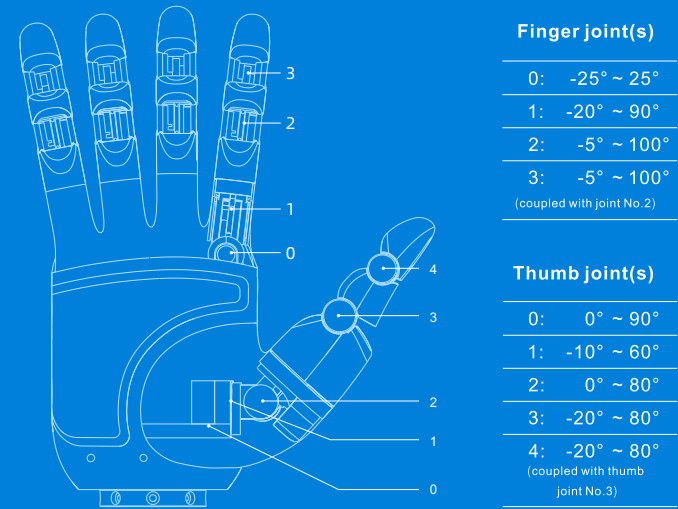


APEX HAND

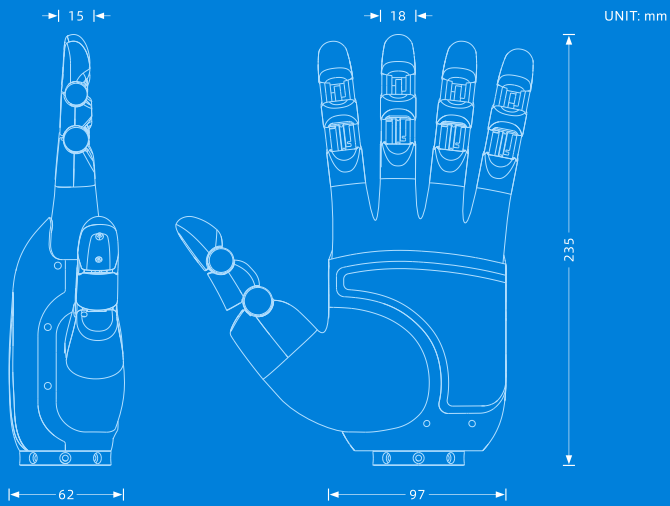
The Apex hand is engineered to be a high performance, all-around platform that combines dexterity and impact-resilience with exceptional speed, strength, precision, and perception. This robust design ensures seamless and reliable operation with everyday tools, contributing to the core challenges of embodied intelligence: learning through physical interaction.



Degree of Freedom Configuration



Product Dimensions



Product Specification

Degrees of Freedom	21 (16 Active)
Weight	1.2kg
Maximum Fingertip Force	>20N
Four-Finger Lateral Swing Angle	±25°
Joint Angular Velocity	>400°/s
Minimum Grasp Diameter	5mm
Fingertip position repeatability	<0.5mm
Working Voltage	24V
Backdrivability	All joints supported
Communication Interface	RS 485, Ethernet
Control Frequency	1000Hz

Tactile Sensing (Option)

Mode	Pressure distribution, Fingertip tangential force
Coverage	Fingertips/Inner Phalanges /Palm
Sampling Frequency	1000Hz
Force Range	0.1N~20N
Latency	<5ms



Rysen Robotics

Founded in 2024 and headquartered in Shenzhen, Rysen Robotics is committed to pioneering core technologies that redefine what is possible in robotics and AI. Our mission is to make dexterous manipulation technology accessible, reliable, and practical across diverse applications.

Built on deep engineering expertise and a strong culture of innovation, our core team draws from the best of both industrial and academic worlds — members from leading technology companies including Tencent, DJI, and Huawei, as well as top global universities such as Tsinghua, NUS, and HKU.

At Rysen Robotics, we turn lab research into real-world impact, delivering dependable embodied robots that unlock the full potential of human-robot collaboration.



Rysen Robotics (Shenzhen) Co., Ltd.

contact@rysenbot.com

[Shenzhen, China](#)



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APEX HAND

Powering physical intelligence