DexRobot 灵巧智能

DexHand021 S

Thousand-Yuan Level High-Function Three-Fingered Dexterous Hand

Achieves **80%** of Core Hand Manipulations



Core Transmission

Special braided flexible rope
Rigid-flexible coupling patented transmission

Bionic Design

Elastic soft body + micro-textured surface
Touch sensation close to real human skin

Super Durability

Over 200,000 cycles without attenuation
Continuous operation with 500g load per finger

Precision Control

0-1A stepless speed regulation torque
Dynamic torque self-adaptation

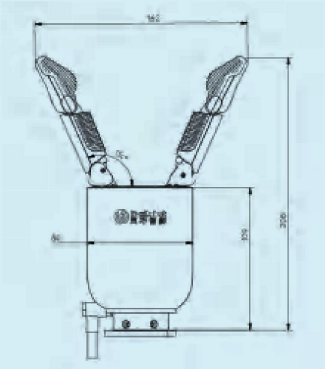
Full Ecosystem Compatibility

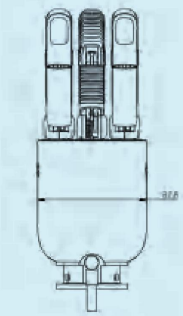
Open-source SDK + multi-protocol support Rapid secondary development

V25.6.24

DexHand021 S Parameters

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Degree of Freedom	8 DOF (4 active, 4 passive)	Drive Method	Motor
Weight (kg)	0.62kg	Operating Voltage	DC 24V
Maximum Current	2A	Static Curren	0.1A
Grip Force	Peak 22N	Control Mode	Position Control
Communication Method	CANFD/RS485	Repeat Positioning Accuracy (mm)	+0.5mm (No Load)
Operating Temperature (Indoor)	0~40°C	Operating Humidity	≤80%RH
Transmission Method	Gear+Tendon +Linkage	Sensors	Angle and Vision (Standard) Tactile (Optional)
Movement speed	Max speed 150°/s (no load, finger open and closed)	Service Life	200,000 cycles (500g load)
Movement speed	Max speed 130°/s (no load, finger rotation)	Load	Rated 2.5kg/Max 5kg (at normal temperature, with the palm facing down and three fingers cooperating to grasp and lift the kettlebell)



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