

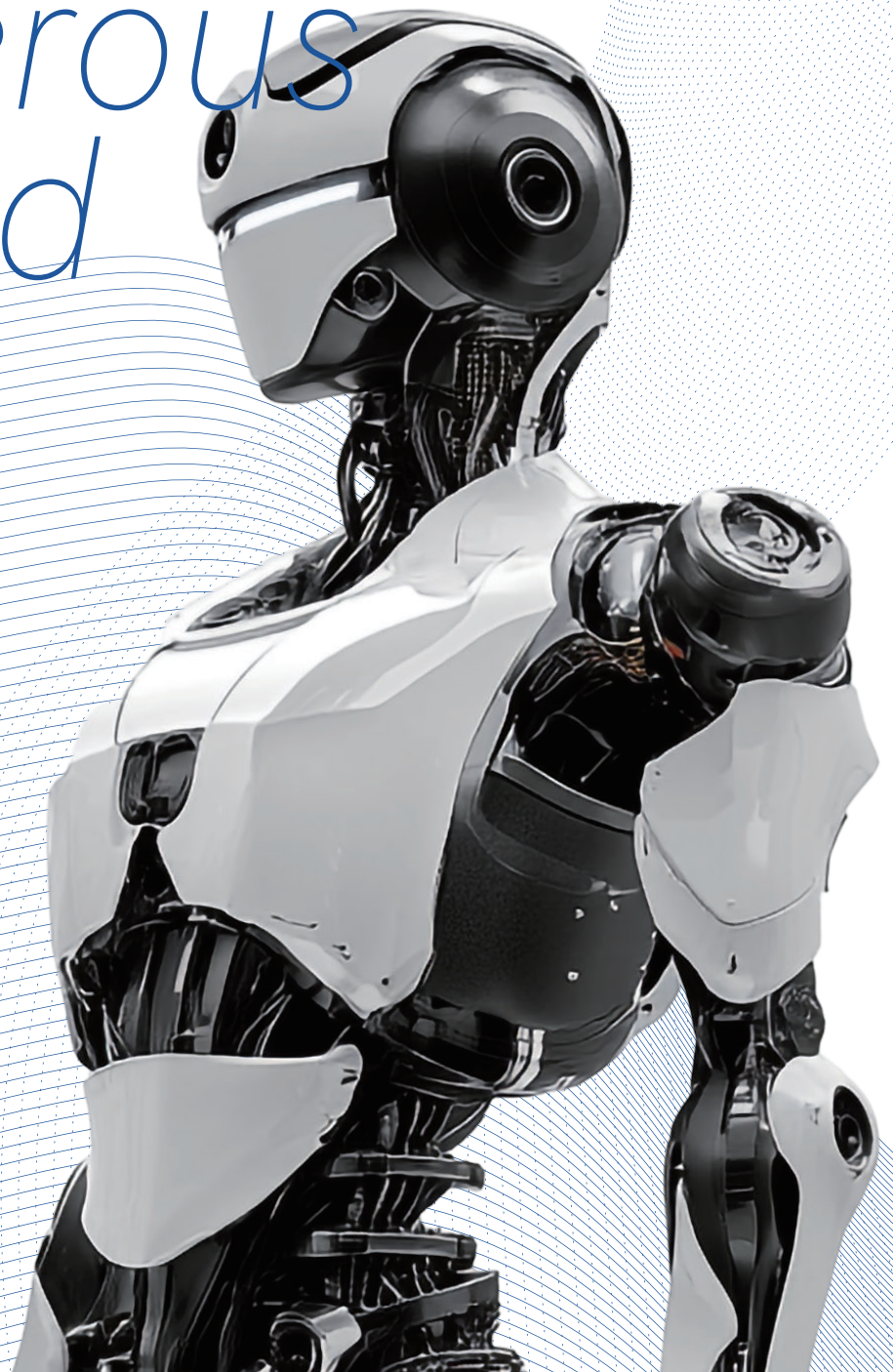


Leadshine

Stock Code: 002979

Robotic Core Components

Dexterous Hand



Reliable Motion Control Partner



● Headquarters in Shenzhen



● Shanghai Intelligent Industry Park



● Production base in Shenzhen



● R&D and production base in Dongguan

- Founded in 1997
- Public Listed Company in China (002979.SZ)
- Dedication in Motion Control
Stepper / Servo systems, Motion Controllers, PLC Control systems, I/O Modules, Robotic core components, Encoders,
- A leading supplier of motion control products and solutions in the world
- Customer Oriented, Technology Oriented, Forever Improving, Sharing of Success

 **29+**
History

 **500+**
R&D Engineers

 **1400+**
Global Partners

 **200/40**
Agent Channel

 **20+**
Global Sales Offices

 **30million+**
Installed Axes

Extreme Cost-Effectiveness
Universal Dexterous Hand



DH116 Series

- EtherCAT / CAN-FD / RS485 Support
- 30 kg maximum hand load
- Optional multi-modal tactile sensors
- Torque / Position Hybrid Control
- 11 DOF High Dexterity

Ultra-Compact Size
The Perfect Match for Small and Medium-Sized Robots



DH116S Series

- EtherCAT / CAN-FD / RS485 Support
- Ultra-Lightweight Design(<380 g)
- Maximum Load (Hook Grip) ≥5 kg
- Customized for 1.1-1.4 m robots
- 11 DOF High Dexterity

Extended Gripping Endurance
High-DOF Dexterous Hand



DH2116 Series

- CAN / CAN-FD / RS485 Support
- 94N active grip force and 2kg fingertip thrust
- Full ecosystem SDK and open-source demo
- 21 degrees of freedom (16 active DOFs)
- Leadscrew solution provides more effective model data

Part Numbers

DH-11 6 S EC - L W 1 - S

DH	Dexterous Hand
11	11 DOF
21	21 DOF
6	6 DOA
16	16 DOA
Default	Universal
S	Ultra-light
P	Force Enhanced
Default	CANFD
EC	EtherCAT
RS	RS485

Default	Standard
S	Standard Piezoresistive
M	Multi-modal Tactile

0	Prototype
1	Gen-1 Mass Production
2	Gen-2 Mass Production

Default or G	Gray
W	White

L	Left
R	Right



Industrial Assembly



Home Service



Humanoid Robot



Dexterous Hand



Prosthesis



Human-Machine Interaction



Aerospace



Universal Dexterous Hand



Highlights

High-speed Communication

100 M EtherCAT
RS485, CAN, CAN-FD optional;

Strong Load Capacity

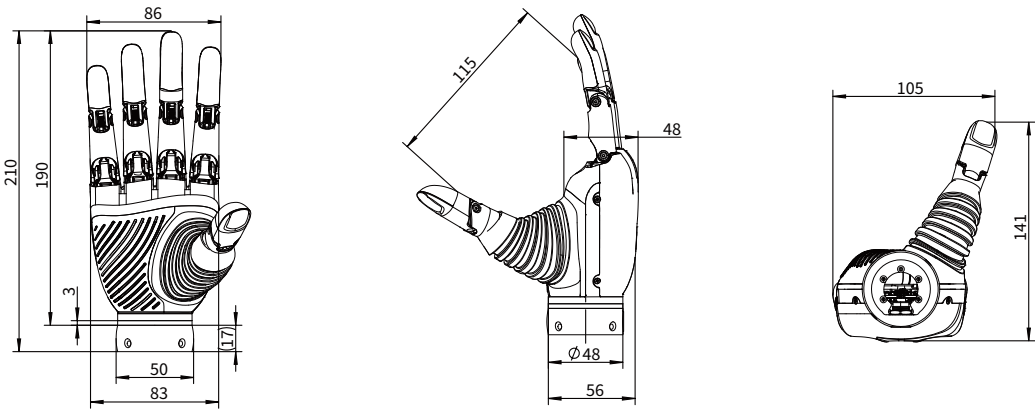
30 KG maximum hand load;
5 KG single finger maximum load;

Powerful Collaborative Capabilities

Specifically multi-finger coordination with force and position fine-tuning.

Powerful perception capability

508 dot matrix tactile sensor;
Optional multi-modal sensors or electronic skin;



DH116 Series

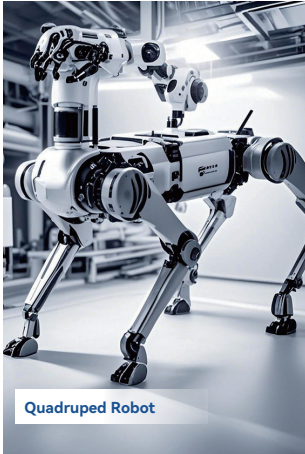
Extreme Cost-Effectiveness Dexterous Hand



Humanoid Robot



Mobile Robots



Quadruped Robot



Collaborative Robot

Item	DH116
Weight	545 ±10 g
Number of Joints	11
Active DOF	6
Passive DOF	5
Drive Mode	Coreless Motors
Operating Voltage	12-48 VDC
Peak Current (Arms)	2.5 A
Rated Current (Arms)	0.05 A
Positioning Accuracy	±0.2 mm
Command Source	EtherCAT / CAN-FD / RS485
Whole-Hand Load Capacity (Hook)	30 kg
Single finger side swing speed	360°/s
Single finger flexion speed	360°/s
Operating temperature	-10~40℃
Operating humidity	≤ 80% RH

Dexterous Hand Selection List

○ DH116 Series

Product Model	Communication Method	Left / Right	Color	Sensor
DH116-L1-M	CAN-FD	Left	Gray	Multi-Modal Sensor
DH116-R1-M	CAN-FD	Right	Gray	Multi-Modal Sensor
DH116-L1	CAN-FD	Left	Gray	None
DH116-R1	CAN-FD	Right	Gray	None
DH116RS-L1	RS485	Left	Gray	None
DH116RS-R1	RS485	Right	Gray	None
DH116EC-L1-M	EtherCAT	Left	Gray	Multi-Modal Sensor
DH116EC-R1-M	EtherCAT	Right	Gray	Multi-Modal Sensor
DH116EC-L1	EtherCAT	Left	Gray	None
DH116EC-R1	EtherCAT	Right	Gray	None

○ DH116S Series

Product Model	Communication Method	Left / Right	Color	Sensor
DH116S-LW1-S <i>ongoing</i>	CAN-FD	Left	White	Standard Piezoresistive
DH116S-RW1-S <i>ongoing</i>		Right	White	Standard Piezoresistive
DH116S-LG1-S <i>ongoing</i>		Left	Gray	Standard Piezoresistive
DH116S-RG1-S <i>ongoing</i>		Right	Gray	Standard Piezoresistive
DH116S-LW1		Left	White	None
DH116S-RW1		Right	White	None
DH116S-LG1		Left	Gray	None
DH116S-RG1		Right	Gray	None
DH116SEC-LW1-S <i>ongoing</i>	RS485	Left	White	Standard Piezoresistive
DH116SEC-RW1-S <i>ongoing</i>		Right	White	Standard Piezoresistive
DH116SEC-LG1-S <i>ongoing</i>		Left	Gray	Standard Piezoresistive
DH116SEC-RG1-S <i>ongoing</i>		Right	Gray	Standard Piezoresistive
DH116SRS-LW1-S <i>ongoing</i>		Left	White	Standard Piezoresistive
DH116SRS-RW1-S <i>ongoing</i>		Right	White	Standard Piezoresistive
DH116SRS-LG1-S <i>ongoing</i>		Left	Gray	Standard Piezoresistive
DH116SRS-RG1-S <i>ongoing</i>		Right	Gray	Standard Piezoresistive
DH116SRS-LW1	EtherCAT	Left	White	None
DH116SRS-RW1		Right	White	None
DH116SRS-LG1		Left	Gray	None
DH116SRS-RG1		Right	Gray	None
DH116SEC-LW1		Left	White	None
DH116SEC-RW1	EtherCAT	Right	White	None
DH116SEC-LG1		Left	Gray	None
DH116SEC-RG1		Right	Gray	None

○ DH2116 Series

Product Model	Communication Method	Left / Right	Color	Sensor
DH2116-L1	CAN-FD	Left	Gray	None
DH2116-R1	CAN-FD	Right	Gray	None

Accessory Selection

Accessory Model	Accessory Name	Description	Pattern
KJS-1509	3~24V@2.5A Variable Power Supply	Universal Optional Accessories	
CABLE-TX0M5-BUS(V2.0)RoHS	0.5m Network Cable	Optional Accessories for EtherCAT Debugging	
MINI USB-CANFD-I	USB-CANFD Debugger	CANFD Debugging Optional Accessories	
6248XL	Super Sensing Data Gloves	Optional Accessories for Data Acquisition	



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