

Yifan Motor

Gear motors expert
Since 1993

HANNOVER MESSE #13A21

Company Profile

YIFAN YIFAN MOTOR
MOTOR DRIVE THE FUTURE

JIANGNAN YIFAN MOTOR CO., LTD

Company Overview

- Public company: Stock code 301023.SZ
- Based in Wuxi, China
- Founded in 1993
- Specialized in micro gear motors & drive control products, offering one-stop solution for of gearboxes, motors, and drive controllers.
- Strategic partner and leading integrated solution provider for top brands such as Siemens, Siemens Energy, Schneider, Eaton and ABB.

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Introduction of CEO



- 2003 Bachelor of Science (B.S.) Nuclear Physics in Lanzhou University, CHINA
- 2005 Master of Science (M.S.) Computer Science in Florida International University, USA
- 2017 Master of Business Administration (FMBA) Finance, in Cheung Kong Graduate School of Business (Graduated)
- 2027 Master of Business Administration (EMBA) Economy, in China Europe International Business School (Studying)

Diversified educational background Home and Abroad

Majoring in Nuclear Physics, computer science, FMBA and EMBA

Open investment mindset Rich investment experience

Two companies successfully went public after the investment/aquisition



6.1billion



3.7billion

Good relationship with original founder, shareholders and management team

Officially listed on the ChiNext of the Shenzhen Stock Exchange (Stock code: 301023)



Rich work experience in well-known domestic and foreign enterprises



Widely appreciated by customers



25 years of good cooperative relationship

Future development...



Development History

01 1993

Jiangnan Micro Motor was established

03 1997

Became a strategic supplier for Schneider

05 2011

Renamed to Jiangnan Yifan Motor, and became a strategic supplier for ABB

07 2021

Listed on Shenzhen Stock Exchange in 2021 (Stock code: 301023)

09 2024

Acquired shares in Honghu Motor which supplied solar motor to PVH & completion of Phase II factory

Established a strategic partnership with Siemens AG

02 1994

Became a strategic supplier for Eaton in the USA

04 2007

Developed slew motor for Arctech Solar

06 2020

Officially entered solar industry

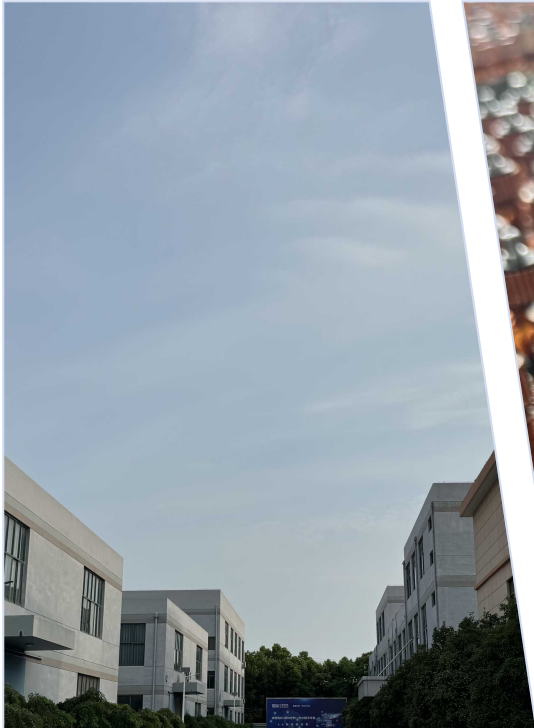
08 2022

Yifan Motor (301023.SZ) brand upgrade: officially launching new abbreviation

10 2025

Fixed Assets And Personnel

YIFAN MOTOR YIFAN MOTOR
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Total Company Area

56,000m²



Total Factory Area

44,000m²



Total Number of Employees

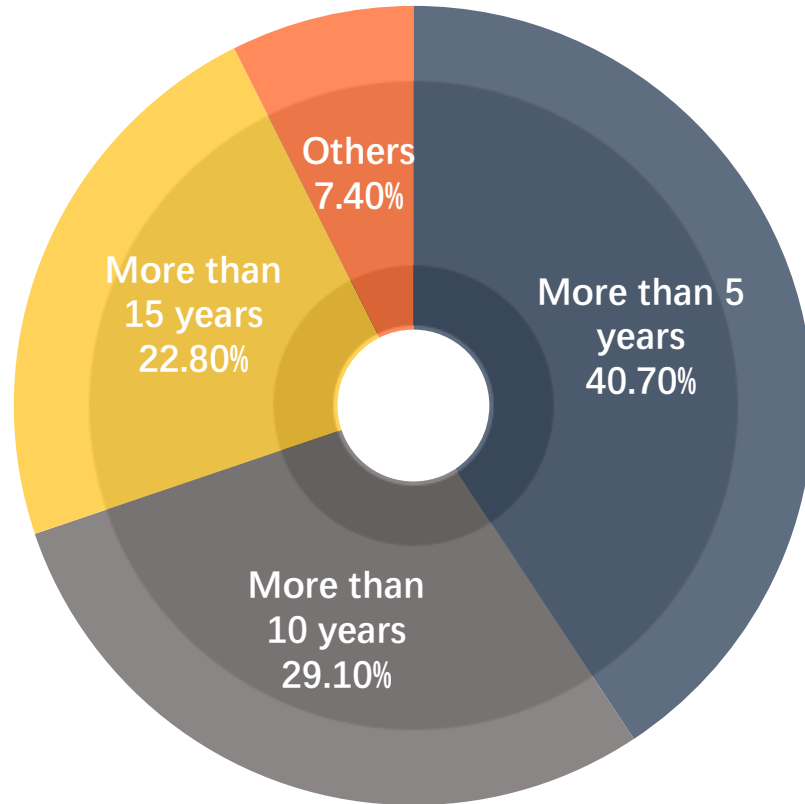
400+



Total Number of Equipment

500 sets+

Employee Composition



- More than 5 years
- More than 10 years
- More than 15 years
- Others

Competitive Edge

YIFAN MOTOR **YIFAN MOTOR**
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Full process automation

Strict quality control and effective cost reduction



Flexible customization capability

Non-standard customization & flexible capacity



One-stop solution

Gear motor & Drive controller



Top-tier enterprise certification

Strategic partners of well-known companies such as Siemens, Schneider, ABB, Eaton, etc.



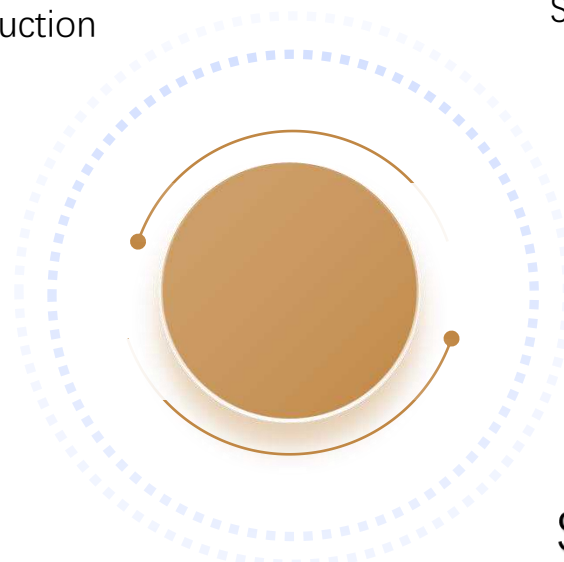
Strong financial strength

As a listed company, advanced equipment and excellent employees to support enterprise growth



Steady progress on multiple fields

Multiple fields & multiple growth curves



Award & Certificates

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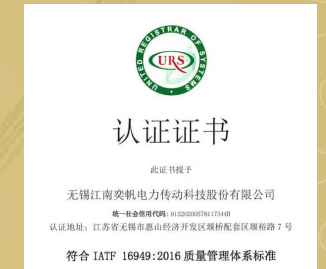
Smart Manufacturing Maturity



Jiangsu Province High-Tech Enterprises



National-level Specialized, Refined, Unique, and Innovative SME Giant Enterprises

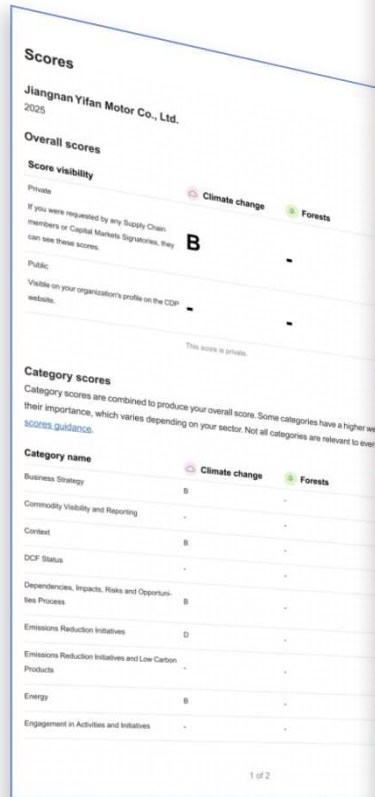


16949 System Certificate



Award & Certificates

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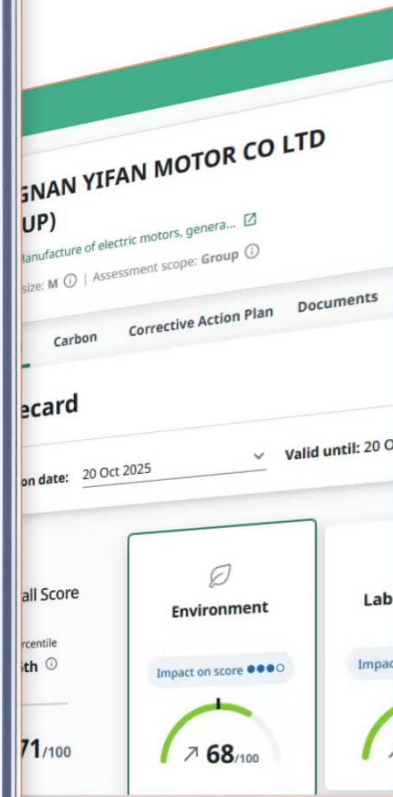
CDP



ISO28000



ISO37001



ISO26000

Certificates

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ISO9001, ISO45001 & ISO14001

Partners (Overseas)

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SIEMENS

SIEMENS
energy

ABB

ARCTECH
中信博

الفنار
alfanar

EATON
Powering Business Worldwide

BATEL

INAEL

KONČAR
Končar - Switchgear Ltd.

MEVOCO
MEDIUM VOLTAGE COMPONENTS

JM-ATRONIK

ormazabal

Hitachi Energy



ELEKTROMONTAŽ

TGB

SFA ELECTRIC

Schneider
Electric
施耐德电气



Power Grid Industry



Product Model	Rated Voltage (V)	Rated Current (A)	Rated Power (W)	Rated Speed (rpm)	Rated Torque (N·m)
40ZY-CJ212-4	220VDC	2.2	120	30	38
40ZY-CJ112-4	110VDC	4.4			
40ZY-CJ0412-4	48VDC	10.1			
40ZY-CJ0212-4	24VDC	20.2			

01 One-piece design

- » Higher integration of motor and gearbox structure.
- » Reduces the traditional chassis car motor needs to match the chain deceleration structure of the secondary production, assembly process, customer production efficiency has been greatly improved.

02 More reasonable structural design

- » More reasonable structural design, effectively reduce the end-customer use of the failure rate, reduce customer after-sales costs

03 7-stage gear reduction

- » The 7-stage gear reduction, as opposed to the traditional 3-stage gear, provides high transmission efficiency, delivers smooth RPM output, reduces vibration, and improves the stability and reliability of the chassis truck.

04 High protection level

- » Compared with the exposed characteristics of traditional chassis vehicle motors, the higher protection level can effectively extend the service life of the motor and reduce after-sales costs.

Solar Tracking System



Product Model	Rated Voltage (V)	Rated Current (A)	Rated Power (W)	Rated Speed (rpm)	Rated Torque (N·m)	IP Rating
68ZY-CJ02065-162	24VDC	6±10%	65	2.5	240	65
88ZY-CJ02070-150A	24VDC	6.6±10%	70	2.1	320	65
88ZY-CJ02070-150B	24VDC	7.3±10%	72	2	345	65

01 Reduce costs

»low-current design not only reduces energy consumption, reduce operating costs. Customers can enjoy a more economical solution, more in line with the green energy concept.

02 Solar panel "guardian"

»high torque motor ensures that even in extreme weather conditions, the motor can ensure that the solar panel is quickly adjusted to a safe angle, to achieve 0 degrees of leveling, effectively resisting strong winds, to protect the solar panel.

03 Safety and convenience

»Ensure stable operation of the equipment in various environments, reducing the safety hazards caused by equipment failure.

04 Reduced after-sales maintenance costs

»Reduced downtime due to maintenance work, ensuring the customer's return on investment and continuity of energy supply.

RV product



Model	Rated Voltage	Rated Current	Rated Torque	Rated Speed	Rated Power	Duty Cycle
40ZY-CJ01040-29	12(VDC)	16(A)	20(Nm)	20 (r/min)	40 (W)	S2(min)

Self-locking Feature

01 Self-locking Feature

»Prevents Sliding: The self-locking feature prevents reverse movement of the load when parked or traveling on inclined terrain, ensuring that the RV mechanisms do not slide due to changes in the vehicle's angle. This enhances the safety of onboard equipment, allowing users to travel or park without worrying about unexpected movement.

Compact Embedded Design

02 Compact Embedded Design

»Concealed Design: The motor is seamlessly embedded and hidden within the door frame, simplifying assembly and minimizing interference with decor and panels.

»Increased Storage Space: The space saved can be used for additional storage cabinets, entertainment facilities, or other essentials, improving space utilization efficiency.

Lightweight

03 Lightweight

»Reduces Fuel Consumption: By reducing the overall weight of the RV, fuel efficiency is improved, lowering fuel costs during travel.

»Increases Load Capacity: With reduced weight, the RV can carry more cargo or equipment, meeting the needs of long-distance travel or camping.

Stability & Durability

04 Reduce manual labor

»Extends Service Life: High wear-resistant materials and redundant design significantly extend the lifespan of the motor and the entire system, reducing the need for frequent replacements and repairs.

»Reduces Maintenance Costs: The motor's durability and low maintenance requirements save users considerable time and expenses on upkeep, allowing them to focus on enjoying their journey.

Security Industry

Product Model	Rated Voltage(V)	Rated Current(A)	Rated Power(W)	Rated Speed (rpm)	Rated Torque(N·m)
G2BLD40-24-18S	24VDC	2.8	3.8	4.8	5.8
3251	24VDC	5.7	98	1800±10%	0.52

| High Efficiency | Low noise and more stable | High Accuracy & Resolution | long lifespan |



01 High Efficiency

»The electronic commutation technology of brushless motors reduces energy losses, improves energy efficiency and helps reduce operating costs.

02 Low noise and more stable

»Brushless motors are virtually noiseless in operation, providing a quieter environment for residents and vehicle owners

03 High Accuracy & Resolution

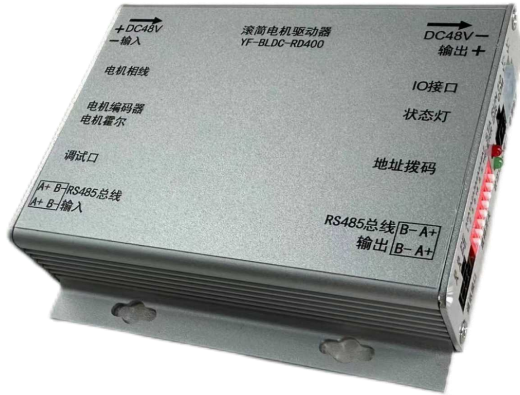
»Since brushless motors do not have carbon brushes, maintenance work due to wear and tear of carbon brushes is reduced, extending the life of the motor.

04 Easy maintenance

»Every operation of the door is under control, ensuring safe and quick passage for pedestrians.

Intelligent Logistics Industry - Controller

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Voltage Power Supply	Operating Ambient Temperature	Function
DC48V	-25°C ~ 60°C	Logistics Drum Controller is a key component used in logistics transfer system, which is responsible for controlling the speed of the motor to drive the drum to rotate and then push the goods to move on the logistics transfer system.

Hall, encoder can be compatible, suitable for a variety of applications

Adopting advanced energy-saving technology, the power output is automatically adjusted according to the actual demand, effectively reducing energy consumption and operating costs.

Products have been tested by EMC, high and low temperature, etc.

Self-developed MOS, cost-controlled, more cost-effective.

01 High market flexibility

»Jiangnan Yifan can provide customized services to meet the needs of different customers.

02 Reduce operating costs

»the use of advanced energy-saving technology, according to the actual demand for automatic adjustment of power output, can be achieved to reduce energy consumption, reduce the failure rate and maintenance costs, so as to reduce the overall operating costs of enterprises.

03 High safety performance

»intelligent temperature control protection function can effectively avoid equipment overheating damage, to protect production safety.

04 Reduce costs

»self-research MOS, cost-controllable, more cost-effective. Let customers in the use of our products at the same time in the market more competitive.

Power Industry -2-in-1 Controller

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Product Model	Rated Voltage	Rated Current	Rated Power	Working Environment Temperature
YF-BDC2A-05B-01	AC/DC110V AC/DC220V	1A	< 300W	-25°C ~ 55°C
YF-BDC2A-05A-01				

01

Reduce after-sales costs

»anti-jamming reversing function can protect the continuity of work, reduce maintenance costs, enhance the use of experience, extend the life of the equipment, and effectively reduce after-sales costs

02

A wide range of applicability

»wide voltage can be compatible with 110V and 220V two common voltage standards, so that it can be used in different regions and different voltage environments, increasing the versatility and flexibility of the equipment. The temperature range of the product can run stably in both the cold northern winter and the hot southern summer

03

Ease the pressure of inventory

»We are committed to easing the pressure of inventory for our customers, PWM 100% adjustable products for users to bring precise control, energy saving and efficiency, enhanced reliability and flexibility to adapt to different motors and mechanisms. This means that customers do not need to stock a large number of products with different specifications to meet different needs.

04

Stable product quality

»our products stand out for their stable quality. The integrated solution of motor plus drive skillfully solves the obstacle of matching motor and controller, so that the failure rate of end-users' products is greatly reduced. At the same time, after heavy testing and certification plus big brand components, quality is guaranteed. Stable quality means a significant reduction in after-sales costs.

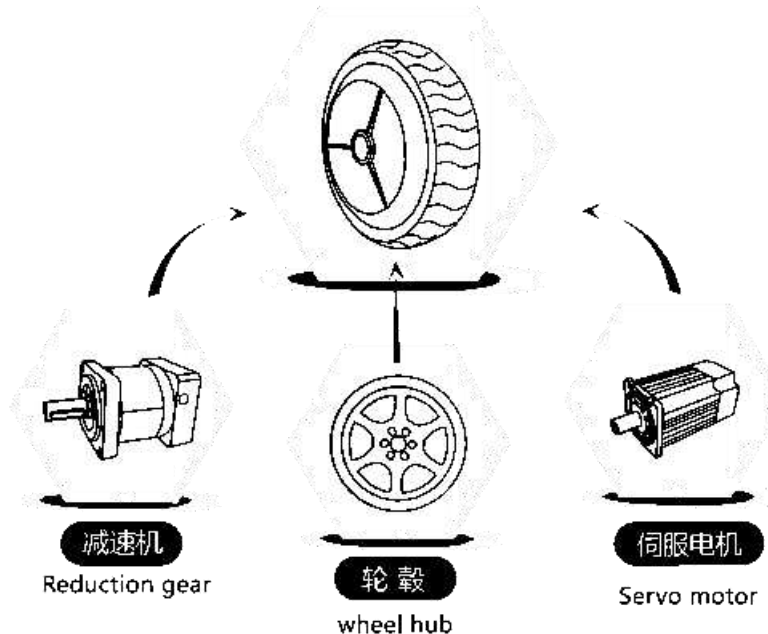
WHEEL-HUB INTEGRATED SERVO

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伺服电动轮

Wheel-hub integrated servo unit



Product advantages

- ✓ Support to speed as low as 1rpm
- ✓ Direct drive(2~80NM)
- ✓ Load capacity of 400KG
- ✓ Obstacle surmounting ability 30MM
- ✓ Maximum climbing degree had reached 22 degrees
- ✓ Very quiet performance, with almost no audible sound at 20 rpm
- ✓ Built-in high-precision coded disk with up to 17 bit accuracy
- ✓ escort for safety
- ✓ 200% overload capacity, provide ultra short braking distance
- ✓ Built-in temperature sensor for real-time monitoring of operation and a variety of protection mechanisms

LOW-VOLTAGE SERVO DRIVER

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Product advantages

- ✓ Support to CANopen bus and MODBUS bus
- ✓ Advanced DSP+FPGA dual kernel architecture
- ✓ Multiple power parts parallel connection technology
- ✓ Brother partner driver fault monitoring
- ✓ Optimized CAN bus receiving and sending mechanism
- ✓ Pulse input port whose highest input frequency is 1MHz
- ✓ Built-in protective measures against overcurrent, overvoltage and overheating

2-IN-1 LOW-VOLTAGE SERVO UNIT

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Product advantages

- ✓ Small size to require only a small space for installation
- ✓ Simplified wiring bringing high reliability and lowering potential risks
- ✓ Effective reduction of system cost
- ✓ Strong adaptability to network building
- ✓ Flexible design change
- ✓ Capability of custom design for multiple functions as required by the market



LOW-VOLTAGE SERVO MOTOR

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Product advantages

- ✓ Super-short body design to reduce equipment size and require less installation space
- ✓ Latest magnetic encoder featuring good vibration resistance and a high cost-performance ratio
- ✓ Complete motor specifications to suit different fieldworking conditions
- ✓ Design that supports dual-encoder, allowing applicability to conditions with higher safety requirements



SERVO MOTOR GEAR MODULE

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Product advantages

- ✓ Super-short body design (only 52.5mm)
- ✓ A small turning radius of the two motor modules' wheel mechanism
- ✓ Motor's rated power: 300W, motor's rated speed: 3,000 rpm
- ✓ Reduction gear: two-stage bevel gear design with a reduction ratio of 1:8
- ✓ Integrated design of motor and reduction gear
- ✓ A big output torque and low noise level



DIGITAL AC SERVO SYSTEM

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Product advantages

- ✓ Built-in grid voltage compensation control to automatically adapt to grid voltage fluctuations
- ✓ Built-in patented intelligent regenerative braking control technology
- ✓ Built-in dynamic braking control to provide additional safety protection to the driver
- ✓ Algorithm to automatically shed load in case of overload
- ✓ Support to CAN bus, RS232 and RS485 communication interface
- ✓ The function of reliability management such as record of fault history



Humanoid Robot Joint Motor



Technical Parameters

Rated Voltage	48V
Rated Torque	40N.M
Maximum Torque	120N.M
Rated Speed	167rpm \pm 10 %
No-load Speed	200rpm \pm 10 %
Reduction Ratio	9:1

Application Scenarios



**Applied to
Robot Joints**

Coreless Motor



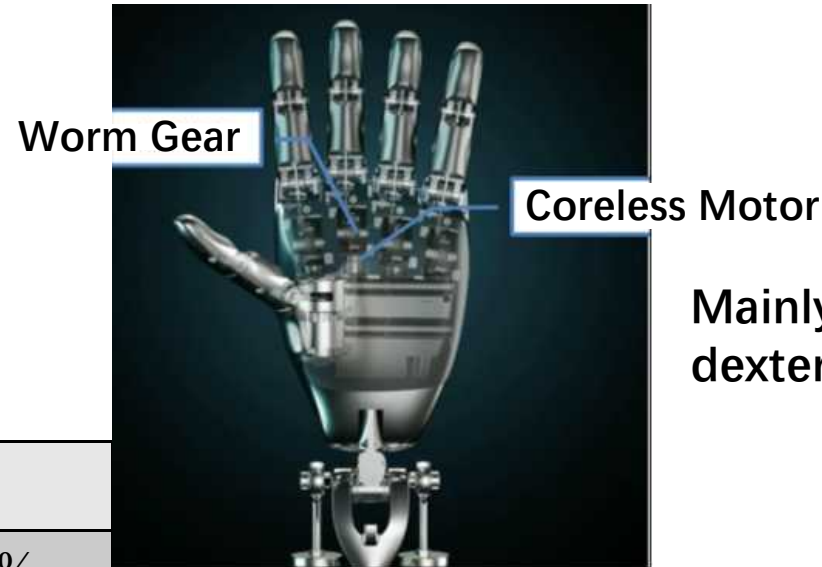
16mm Technical Parameters

22mm Technical Parameters

Rated Voltage	12V
Rated Torque	1.4mN.M
Rated Current	0.7A ± 30%
Rated Speed	45360rpm ± 10%
No-load Speed	47000rpm ± 10%
No-load Current	0.3A ± 50%

Rated Voltage	24V
Rated Torque	11mN.M ± 20%
Rated Current	2.4A ± 20%
Rated Speed	37000rpm ± 10%
No-load Speed	40000rpm ± 10%
No-load Current	0.4A ± 50%

Application Scenarios



Mainly used in dexterous hands



Medical



1. Surgical Robot
2. Orthopedics (drilling or cutting)
3. Artificial Heart
4. Ventilator
5. Dental
6. Pharmaceutical Pump
7. Artificial Limb

Sample Project - Power Industry Project

01 XD 中国西电 CHINA XD

📍 Karachi Project, Pakistan

- The first complete export of a 1.1 million kW commercial pressurized water reactor nuclear power plant project to foreign countries



02 XD 中国西电 CHINA XD

📍 Xingtai 1000 kV UHV Substation Main Transformer Expansion Project

- Further ensures the safe and reliable supply of electricity during the peak summer period in the Beijing-Tianjin-Hebei region for this project
- Covered by CCTV1 news reports



03 ARCTECH 中信博

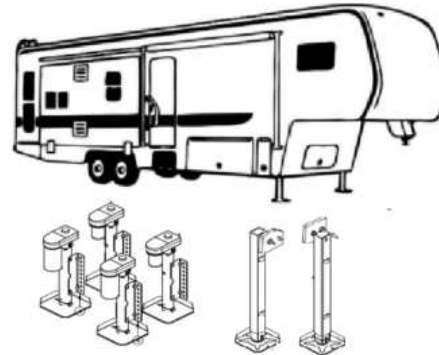
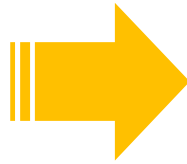
📍 Australia Project

- Project Type: Ground Power Plant
- Project Capacity: 132 MW
- Solution: Sky Tracking System



Sample Project - RV Industry

Application background: Equipped with a fully interactive touchscreen, two independently driven front landing gear legs, and two or four additional leveling jacks. This system provides camping enthusiasts with the opportunity to automatically level their recreational vehicles without the need for leveling blocks and/or manually deploying jacks one by one. Keeping the recreational vehicle level is crucial for ensuring the proper operation of electrical appliances, slide-out doors, compartment doors, and interior/exterior doors. The easy-to-read interactive touchscreen can manually operate all leveling jacks, or you can simply press 'OK' and walk away!



- Sliding Door
- Front Landing Gear Leg
- Leveling Jack

Logistics And Warehousing Industry

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WAREHOUSING AND
LOGISTICS INDUSTRY

仓储物流行业



Product advantage

- Modular design with a compact structure
- Multiple built-in protective measures to ensure reliable safety
- Multiple models to offer an ideal cost-performance ratio
- Patented design to bring excellent performance



Robot Industry

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Application

- As the mobile robots' "flexible feet", wheelhub integrated servo units can be used for the robots in the fields of power line inspection, generator room inspection, cleaning, disinfection, medical service, interaction, parcel delivery, meal delivery sales, security, intelligent handling, library book handling; this product's application also covers the universal chassis of robots.

