

Kinco 步科
步科股份：688160

Motion Control Product Profile

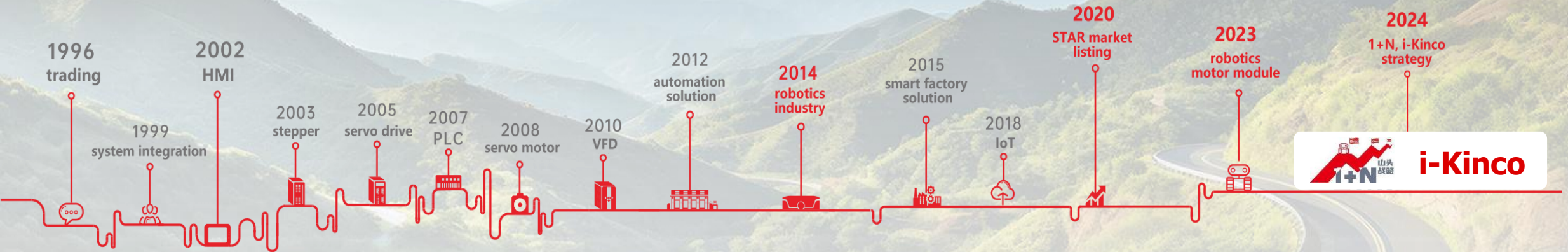


2026

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- 06** **Helping Overseas and Partners**

Kinco Company Profile

Kinco is a leading Chinese supplier of **motion control** and **human-machine interaction(HMI)** devices for **robots** and **intelligent equipment**



Vision:
Enabling Robots to Build a Better Life for Humankind



Values:
Customer First, Openness and Enterprise,
Perseverance and Hard Work, Integrity and Trustworthiness

Machine IoT Cloud Platform



Automation core components



i-Kinco Robot Motor Module

Four Major Bases, Global Service

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Changzhou



Shanghai



Chengdu



Shenzhen

10+ Global Marketing Centers
100+ Domestic Service Providers
70+ Global Partners

All-Year-Round Online Service
Hotline 400-700-5281



Kinco Typical Application Cases

Integrated motion control solutions for walking, rotating, and jacking
for mobile robots,
Mobile Robot Market Share No.1



iWMC Travelling servo wheels



iGMK Jacking Module



iGMK Rotary Module



Robot-specific HMI

Motion Control Solutions for Top Medical Imaging Device

Solution and Value:



- High-performance European servo system to meet the performance and control accuracy of high-end CT control
- High-end CT frameless direct-drive motor programme preferred supplier
- More than 15 years of experience in the medical industry, can meet the needs of various types of imaging equipment
- Long-term stable and reliable supply to meet the 10-year life cycle + 10-year maintenance cycle products with CE, UL, STO certification to meet customer certification requirements



Customer pain points: High equipment performance requirements, High price of imported brands, Slow service

- ✓ **Providing total solutions**, from stand-alone terminal equipment to high-end stranding processing centres
- ✓ 64-axis EtherCAT controller with 250us cycle time and **<1mm wire feed accuracy**
- ✓ Stable and reliable, **7*24h** continuous production
- ✓ Localised supply chain to meet customers' rapid service needs

Why choose Kinco

- **European standard design**, drive and motor seamlessly replace European brands
- **10+** years of experience in wiring harness industry, experienced in product development
- 10+ years of continuous supply with **<0.3% return rate**



High-performance servo motors for world-class industrial robots

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Highly reliable industrial arm joint motors for long-lasting stable and safe operation



Industrial Robotics



Innovative integrated servo-electric gripper



Robot Gripper

Frameless torque motors for world-class collaborative robots

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Excellent motor torque and
temperature rise performance



High-quality, low-cost
process design



让机器人 为人类 智造美好生活



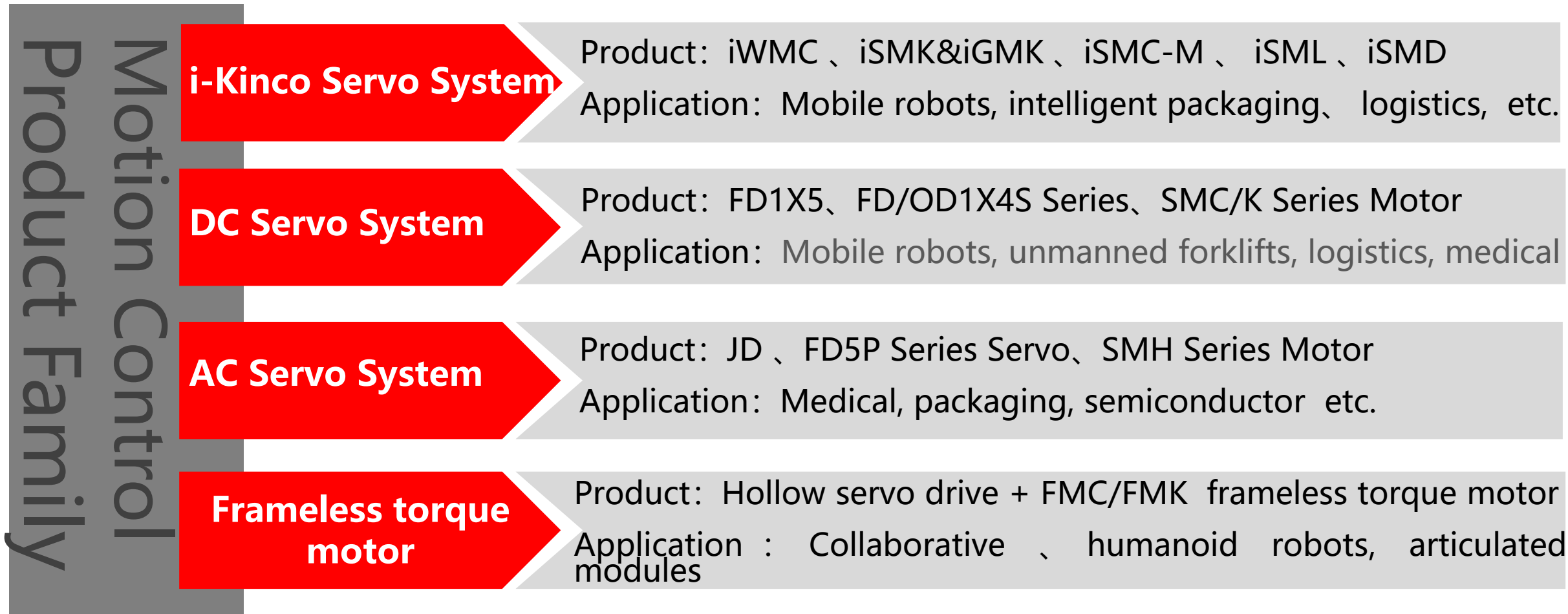
ODM: Why Kinco?

- Core R&D and innovation capability
- Powerful supply chain resource integration capability
- Digital lean production quality assurance system
- Global service and rapid response mechanism



Kinco Motion Control Product Profile

Motion Control Product Family



i-Kinco Products Profile



iWMC Series Servo Wheel



- **Wide-voltage input:** 24V~60V, friendly to AMR battery power supply
- **Payload:** Provide 50Kg~2T different load requirements
- **Installation volume reduced by 35%**, easy to install, easy maintenance
- The whole system is equipped with temperature detection, anti-flying
- Noise is **5~10dB lower** than similar products
- Drive motor reducer encoder and other core components of independent research and development, to reduce the different manufacturers of parts adapted to cause defects and problems, improve the delivery capacity to shorten the delivery period.
- Conforms to CE, **STO** certificates to meet overseas requirements

iGMK Series Integrated Servo



Extremely short body for better utilisation of equipment space

iGMK Reduction Servo Integration:

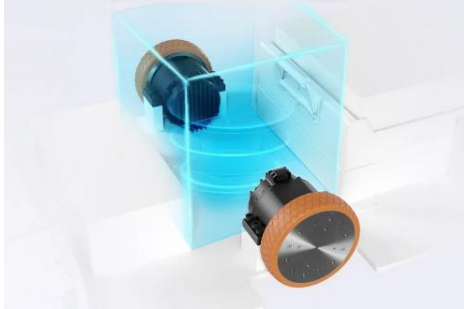
- Input voltage: DC24V~60V **wide-voltage** input, friendly adapted to AMR battery power supply
- Motor power covers 200W-750W, speed ratio covers 5, 7, 10, 20, 35, 50, 70.
- The whole machine meets **3 times overload** capacity, low temperature rise, low noise.
- Driver motor built-in alignment, reducer parts and motor close matching, **efficient and smooth transmission, higher positioning accuracy.**



◎ 节省35%以上
行走驱动组件的安装空间



◎ 高度集成化设计
节省AGV内部空间



Submerged AGV market share No.1

Solution Configuration

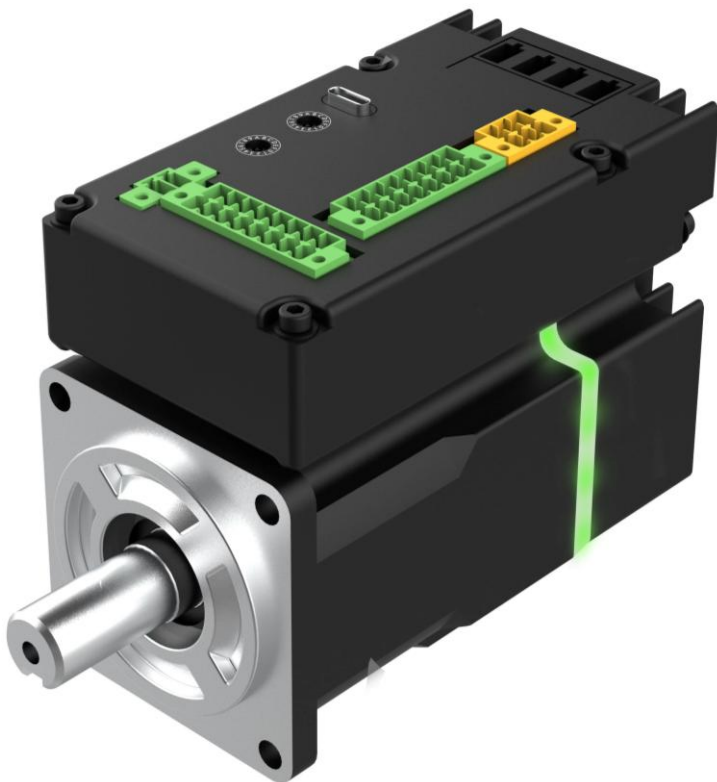
- Travelling: iWMC servo wheel 9~20 reduction ratio, export optional **double encoder** + **STO** + holding brake
- Rotation: iGMK servo gearbox integrated 400W 35 reduction ratio
- Jacking: iGMK servo gearbox integrated 400W 245 reduction ratio with holding brake

✓ customer value

- Adapted to 48V battery power supply, to meet the needs of equipment mobility
- Improve space **utilisation by 50%**, reduce cabling, easy to install and maintain
- Reduce TCO by more than **30%**

✓ Advantages of Kinco

- Low-voltage servo leading brand, the world's largest market share
- Robot as the core of the strategy, and constantly lead the industry innovation
- Complete self-research and self-manufacturing capabilities of core components such as drive motors and gearboxes.



iSMD high performance low voltage servo integrated machine:

- Wide voltage input: DC24V~60V
- IP20 / IP65 series products available
- Support Modbus, CanOpen, EtherCAT, Profinet.
- Comply with CE + UL, meet SIL3/Cat.3/PLe level **STO** safety function.
- Position Loop 8K / speed Loop 16K / current Loop 16K, faster response and more accurate control
- **Integrated design**, field level installation, efficient use of space
- Supports multi-turn absolute encoder, no need to return to home position after power failure.

iSMK Integrated DC Servo



- Support 24~60VDC wide voltage;
- Power range covers 100~750W;
- 3 times overload capacity, and with a variety of safety protection measures;
- IP67, can be applied to -40~40°C;

Drive + Motor + Encoder + Brake
Integrated design

iSMD&iSMK Application Scenarios



Lamp detector machine



Screw capping machine

Multi-axis applications such as Packaging/Slitting

✓ Customer value

- Cabinet elimination, reduced cabling, miniaturisation of customer's station
- 20% reduction in overall solution cost
- High protection level, suitable for on-site vapour and liquid dust environment

✓ Advantages of Kinco

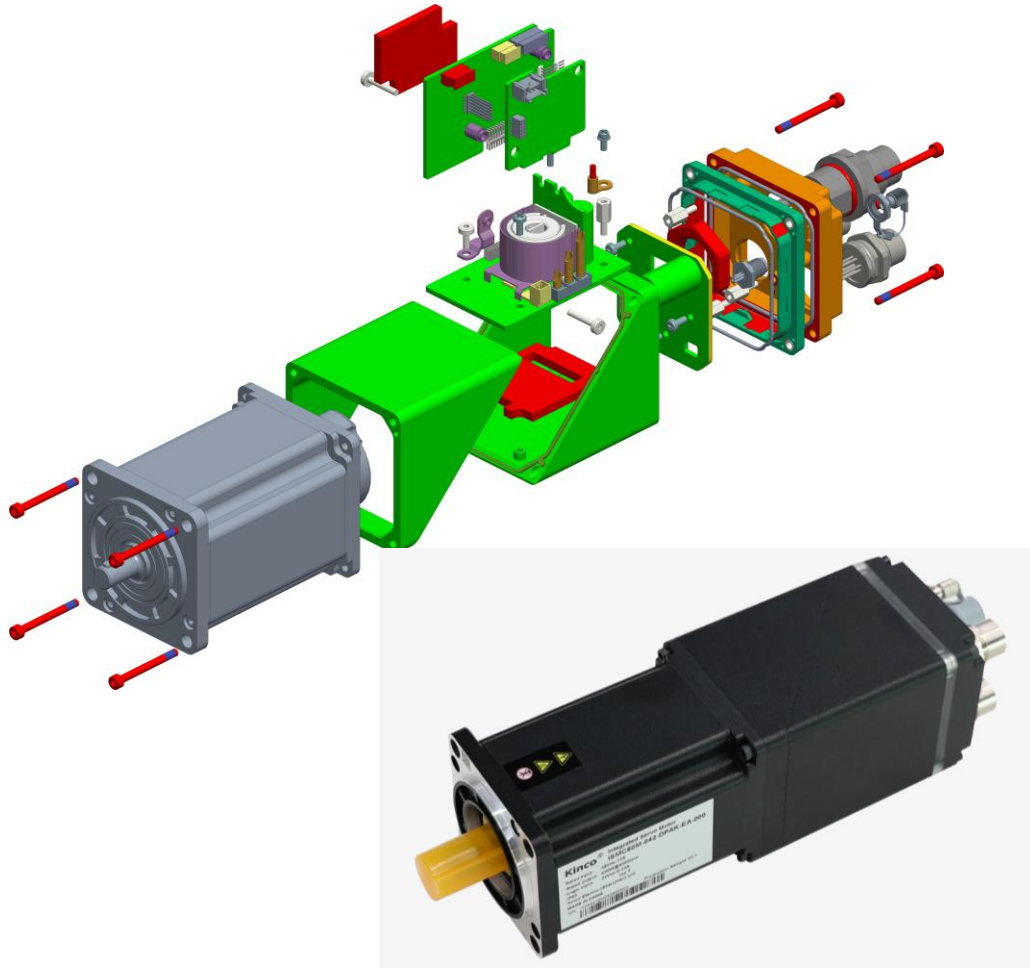
- i-Kinco's leading brand of integrated servos.
- High power density miniaturised body for improved space utilisation
- Meets field grade design and certification requirements



Slitting machine



Rotary labelling machine



iSMC High Protection DC Integrated Machine:

- Power: 200W ~ 420W
- Input voltage: DC24V ~ 60V wide voltage input
- **Integrated motor+encoder+driver**, easy to install and maintain.
- Three-colour LED lights, multi-directional visual working status, support user-defined blinking mode.
- Support RS232, EtherCAT, suitable for multi-axis bus control.
- **Position loop 8K/velocity loop 16K/current loop 16K**, meet the high precision and high response application.
- **IP65 high protection**, to meet the harsh environment applications
- Comply with CE (C1) + **UL + STO**, to meet the high EMC requirements, to **meet the European and American safety access**.



Clamping Jaw for automobiles from leading global car manufacturers

- ✓ Integrated servo drive control reduces wiring complexity
- ✓ EtherCAT bus interface, support STO and multi-turn absolute encoder
- ✓ IP67 high protection, suitable for harsh field environment
- ✓ Electric instead of pneumatic devices, reducing system complexity

Why choose Kinco

- Integrated leading brand, domestic DC servo market share >60%
- German experts led the development, in line with the European market habits of use
- Rich experience of cooperation with overseas customers, preferred ODM for international brands.
- Complete product certification: CE / UL, STO

DC Servo System

Market Share
NO.1



FD1X4/FD1X5 Series DC Servo System

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EtherCAT[®] **CANopen[®]** Modbus

✓ Fully configured

- Power band: 50W ~ 5KW, the most complete low-voltage servo power range.
- Input voltage: DC24V~60V & 72V~96V, wide voltage input.
- Support 485/CAN/ECAT mainstream control bus and incremental/absolute encoder.

✓ Excellent performance

- Position ring 8K/velocity ring 16K/current ring 16K, industry-leading response and precision.
- Maximum output 85A high current, meet the demand of low voltage high power **300% overload**.

✓ Safe and easy to use

- Anti-flying function/motor over-temperature protection, etc., safety and security functions are complete.
- Compact terminal design, compact size, reducing installation space by 30%.
- Compliance with CE + UL + **STO** certificates to help overseas customers.

OD1X4 Series DC Servo System



- Power: 200W, 400W, 750W
- Wide voltage input: DC24V~60V
- Support Modbus, CanOpen, EtherCAT
- Comply with CE + UL certification higher efficiency (>98.5%), industry-leading
- **Modular design**, the whole machine is only the size of a palm, suitable for compact space
- Can be directly embedded into equipment control boards for integrated use



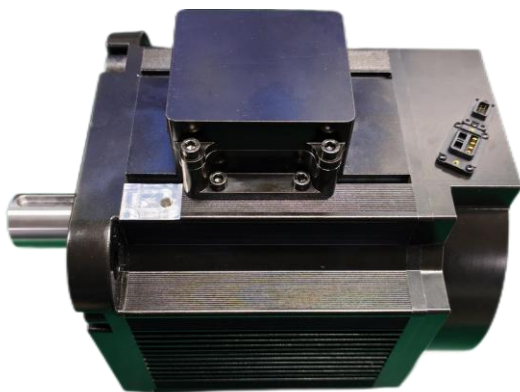
SMC Series



Extreme Short Series



SMK Series



SMC/SMK DC Motor:

- **Low torque fluctuation:** 1%~2%, 0.5%~1% lower than similar products, and very little jitter at constant speed and zero speed.
- SMK whole machine IP65 protection level, adapt to the harsh working conditions.
- **SMK common body socket**, plug and play, easy to install and maintain.
- SMC Extreme Short Model: **30% shorter body**, adapt to the ultimate compact space.
- F-class motor 150 degrees temperature **resistance without demagnetisation**, long life and low failure rate.
- Meet the CE UL certification, help customer equipment to go overseas.

DC Servo Application Scenarios



Industry AGV/AMR



Composite Mobile Robot



Tank Robot



Latent Forklift



Unmanned forklift



lithium/photovoltaic/automotive industry
of Special machine

AC Servo System



JD Series European Standard Drive

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✓ Fully Functional

- Support 485/CAN/ECAT mainstream control bus.
- Support **Biss/HiperFace/Tamagawa** and other mainstream encoder protocols and the second encoder input.
- Can drive **linear motors and DDR**
- Support **master-slave following, multi-axis synchronisation, full closed loop** and other rich control functions.
- Support **electronic cam, fly cutter, gantry synchronisation** and other advanced application functions.
- Plug-in and debugging software are European design, high-end servo domestic alternative to the first choice
- Full open servo parameters, to meet the needs of different working conditions debugging

✓ Stable and reliable

- Key materials are all mature materials of international first-tier brands
- Failure rate is less than 0.1%, much lower than the peer group.
- Comply with CE + UL + STO certificates.

FD5P Series AC Drive

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✓ Excellent performance

- Power Range: 50W ~ 7500W
- Input voltage: AC200V ~ 240V & 380V ~ 415V, effectively adapt to the voltage fluctuations
- Support 485/CAN/ECAT/Profinet mainstream control bus and incremental/absolute encoder.
- Position Loop 8K/speed Loop 16K/current Loop 16K, response and accuracy reach the industry's first-class level.

✓ Easy to use

- Single-board design, compact body, high cost-effectiveness
- Support online self-tuning, adaptive trap filter, without complex debugging to meet the majority of applications
- Support S-curve control, end vibration suppression, high-speed probe and other functions.

PROFI
NET

Ether**CAT**

CANopen

Modbus

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Specification	FD415P	FD425P	FD425P-F (fan)	FD435P	FD445P	FD615P	FD525P
Power Supply	1PH,200-240VAC			1PH/3PH,200-240VAC		3PH,380-415VAC	
Logic power supply	×			1PH,200-240VAC		1PH,380-415VAC	
Maximum Continuous Current	3.2	4	5	7.6	12.5	5.4	12
Peak Current	15	18	18	32.5	54	23	45.5
Feedback Signal	Communication type Encoder						

SMK Series AC Motor



- Power range 50W-7.5KW
- Ultra-low temperature rise: 10~15K lower than similar products, better adapted to high-temperature and high-speed application scenarios, prolonging the life of the motor and reducing the failure rate.
- 3.5 times overload can last 20S, overload time is about 2~3 times of similar products.
- IP65 protection level of the whole machine, adapting to the harsh working conditions.
- 2-in-1 metal socket, plug and play, stronger anti-interference ability.
- 2~5mm shorter than similar products, improve space utilisation, easy to install and maintain.
- F-class motor 150 degrees temperature resistance without demagnetisation, long life and low failure rate.
- The whole series of products of first-class energy efficiency, meet the CE UL certification, help enterprises to go overseas.

High Voltage Servo Application Scenarios



Packaging equipment



Printing equipment



Food and Drinks



logistics sorting



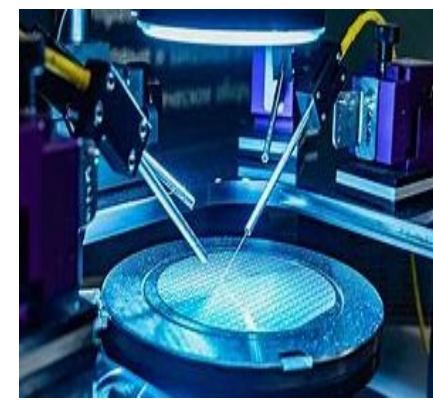
**Woodworking
Machines**



Laser cutting



**Medical
treatment**



**semi-conductor
industry**

Frameless torque motors



FMC/FMK Series Frameless Torque Motor



- The earliest in China to invest in and lead the localisation R&D and manufacturing of frameless torque motors.
- Harmonic specifications: 11~40; outer diameter size: 52~140mm
- Performance against international first-class brands, the first choice for domestic substitution
- Multi-slot pole design, effectively increase the maximum torque of the motor.
- Stator vacuum potting, better insulation and thermal conductivity than similar products.
- FMC split-valve series has high slot fullness, higher power density and lower torque fluctuation.
- FMK round series has higher dimensional consistency, easy manufacturing and can reduce 70% of the production cost.



Hollow drives and encoders:

- Greatly saves space and optimises system layout
- Ideal for compact applications such as robot joints and wheel steering.
- Hollow-channel cabling avoids exposed cables that can cause tangled wear and tear
- High power density for superior performance to support loaded robot manoeuvres
- Straight-through transmission axes for high drive efficiency and precise motion control

EtherCAT  CANopen[®] Modbus

Frameless torque motor application scenarios



Kinco

Supporting Global Expansion and Partnerships

i-Kinco contributes to robots' overseas strategy



CE, UL, RoSH, Dual Encoder, STO

Full Coverage of Overseas Markets in
Asia, Europe, America, Africa, and other
Regions

Standards		Drives	Motors
European Standards	EMC	EN61800-3	EN6100-3-2、EN6100-3-3
	LVD	EN61800-5-1	EN60034-1、EN60034-5
American Standards		UL61800-5-1	UL 1004-1、UL 1004-6

Where there is robot, there is Kinco

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Where there is robot,
there is Kinco

HAIROBOTICS
海柔创新

Geek+

HANGCHA

Linde

NOBLELIFT 诺力

SINUSUN 新松

HELI 合力

KUKA

ABB

FANUC



UNIVERSAL ROBOTS



One-stop service for logistics
solutions

BlueSword
兰剑智能

DAIFUKU
Automation that Inspires

ENFON
上海音峰机器人

今天国际

KENGIC 科捷智能

Gen-song

inform 音飞
智能储存解决方案



Trusted partner of international
brands

FESTO

OMRON

Honeywell

B&R
A member of the ABB Group

LS

KEBA
Automation by innovation.

EMERSON

SIEMENS
Ingenuity for life



Preferred brand in
manufacturing industry

SAIC 上汽集团
SAIC MOTOR



上海地铁
SHANGHAI METRO

中国中车
CRRC

CSR
中国南车

CETC
中国电科



Motion control specialist for
medical imaging equipment

UNITED 联影
IMAGING

SIEMENS
Healthineers



Empower new quality productive
forces for advanced manufacturing

BYD

CATL
宁德时代

ATW
奥特维

S.C 捷佳伟创
SHENZHEN S.C

Lyric 利元亨
play with lyric

HACHT
海昌智能

LEAD 先导



Large terminal applications

通威
通威股份
TONGWEI CO., LTD.

LONGi 隆基

一汽-大众
FAW-VOLKSWAGEN

小鹏



东风汽车

红旗

SHEIN

让机器人 为人类智造美好生活

Advantages of Kinco Servo

German technology, excellent performance, the first choice to replace the European products.

i-Kinco highly integrated product platform, servo integrated leading brand

Experienced in overseas co-operation, global layout, in line with the habits of overseas customers

Full range of certification capabilities and experience to meet high-end industry requirements

20 years of servo R&D experience, product technology maturity and high reliability

Thank You

Kinco
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