

# OLI Motion Control

## Industry Solution



CNC



Semiconductor



System Integration



Textile machinery



Woodmaching



Automated production line

## Controller



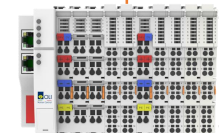
CNC system



PLC&PAC



HMI



I/O module



Handheld Terminal

## Driver



Inverter



Servo Driver



DD dedicated driver



Electric spindle driver



Linear motor driver



Multi-axis driver

## Execution



Metal Spindle



Shoulder



Mechanical spindle



Revolving stage



Servo Cylinder



Servo Motor



Linear Motor



Linear Module



Smart Motor



Linear slider & Module

● DEVELOPING ● FINISHED





a **WOLONG** company



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# HMI

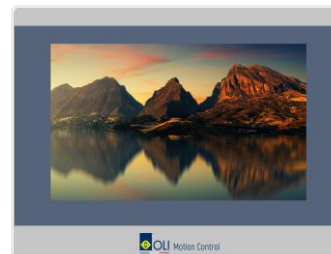
## Human Machine Interface

As a bridge between OT and IT, it combines traditional industrial automation products with new technologies such as the Internet of Things, edge computing, and digitalization to provide equipment manufacturers and equipment users with a new generation of HMI, improve efficiency, reduce costs, optimize management, and promote the intelligent development of equipment.



WT-C0

- Multi-point capacitive touch screen, anti-scratch, no drift
- Main board three anti-paint treatment, adapt to a variety of harsh environment
- Farewell fastener, convenient installation
- 4-way serial port with Ethernet port, more powerful expansion capability
- New configuration software, rich library, powerful functions



WT-R6

- Hd, high brightness, full viewing Angle
- Support for iot expansion modules
- Flexible configuration, cost-effective
- Support cloud platform, real-time interaction

ADVANTAGE





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# PLC & PAC

Meet the application requirements of various industrial control scenarios such as logic control, sequence control, process control, motion control, and edge intelligence.

It has been widely used in transportation, logistics, chemical industry, new energy, machinery, high-end equipment manufacturing and other fields to provide personalized solutions for the field of automation.

## ADVANTAGE



### Standardized structure, complete functions

Microsecond level 0.02~0.004 bit operation, 0.010~0.020 word operation and 0.12~0.15 floating point operation speed



### Powerful iot integration capability

Cover the EtherCAT, EtherNET, Profinet/IO, Modbus and other common bus communication



### Wide range of industry applicability





WLC300



WAC500



WAC600

PLC local expansion  
dedicated IO module



Support six languages that based on the IEC61131-3 programming standard(LD、FBD、IL、ST、SFC、CFC)

Up to 64 remote racks can be  
extended via fieldbus

The host supports up to 16 IO extensions and supports up to 127 remote rack extensions

Without the need to install  
programming software, PLC can be  
operated through Web tools to  
reduce the threshold of use

8 pulse shafts, 16 EtherCAT shafts, 16  
combined shafts (up to 8 pulse shafts) are  
available in a variety of configurations

4 pulse shafts, 32EtherCAT shafts, 4 pulse shafts +32  
ETHERCAT shafts, 64EtherCAT shafts, 4 pulse  
shafts +64 ETHERCAT shafts are available in a  
variety of configurations, supporting up to 500us cycle  
8-axis synchronization

Through standard communication  
protocols, data interaction with the  
cloud platform is realized

The highest frequency of high-speed counting channel is up to 800Kpps (two-phase 4x frequency)  
/200kHz (single input), and the highest frequency of high-speed pulse output channel is up to  
200kHz

Integrated WebVisu functions, with  
rich visual elements

DC distributed clock synchronization is adopted to realize synchronous control of shaft, supporting  
synchronous position mode, synchronous speed mode, synchronous torque mode and zero return  
mode

Support PTP control, electronic CAM, electronic gear, linear/arc / 3-axis spiral interpolation, CNC  
(support G code), robots, etc





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# I/O Module

IO module is an important component in the smart factory, which can realize the functions of signal acquisition, data transmission and control. It has the characteristics of high reliability, strong expansibility, easy maintenance and high flexibility. It is widely used in automatic production line, energy management, logistics warehousing, security monitoring and other aspects, and can improve production efficiency and reduce costs through the application of IO module.

## ADVANTAGE



### Strong compatibility and scalability

A complete range of I/O, integrating a variety of digital modules, analog modules and temperature modules.

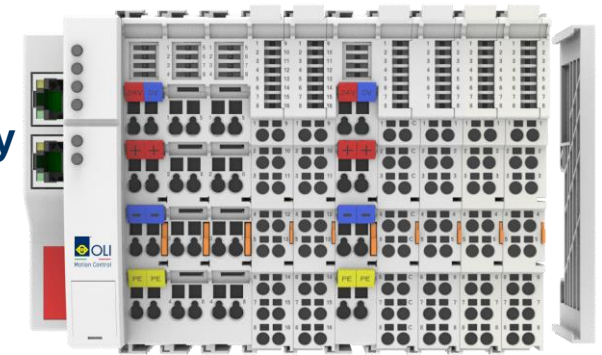


### High stability



### Complete communication protocol

Support mainstream PROFINET master and EtherCAT master.



Slide type  
I/O



Integrated  
I/O



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# Inverter

——WD200

A new generation of high-performance general-purpose inverter. The power range is **0.4kW to 1000kW**, support single-phase and three-phase power supply voltage of 220-690V. Adopt advanced motor control algorithm, support AC asynchronous motor, permanent magnet synchronous motor and synchronous reluctance motor control.

## ADVANTAGE



### Comprehensive and versatile product range

The power range is 0.4kW to 1000kW, can use four power supplies.



### The whole series adopts compact body design, which makes the cabinet group more flexible



### Single model matches 2 different power motors

Light load (P type) : suitable for applications with low overload (up to 120%)

Heavy load (Type G) : Suitable for applications with high overload (up to 150%)







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# Servo Driver

——WSD series

**50W-30kW** lineup with **Low voltage 24/48/72/80V and 220/380V**, supply voltage with position, speed, torque, full closed loop, EtherCAT and other control methods.

## ADVANTAGE



### Rich advanced features, easier debugging

Inertia recognition; Parameter self-tuning; Resonance suppression; Jitter suppression; Advanced feed technology.



### New design, more to meet the needs

Full closed-loop design, compact structure, space saving;  
The sixth generation DIPIPM has high reliability and low switching loss.







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# Servo Motor

——M series

M series servo motor covers **AC200-240V/AC380-480V**  
power supply voltage **50W-30kW**, motor protection level  
IP65/67, support 2500P/17bit/20bit/23bit and other encoders.

## ADVANTAGE



**The structure design is more exquisite and compact**

Block core design; Concentrated winding



**Lower cogging torque**

Integrated design of rotor magnetic ring;  
Multi-pole oblique charge



**High power density design, efficient energy saving**

Up to 94% energy efficiency for single machines



**Wide coverage of market application requirements**





# Linear motor and Integrated component products

Independent development of linear motors, products are rich, including shaft, U-type, flat and other types of linear motors. Suitable for a variety of high speed and high precision positioning applications.

## ADVANTAGE

### Shaft Linear Motor

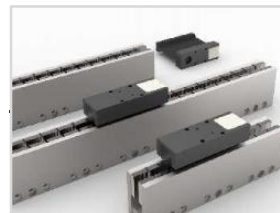
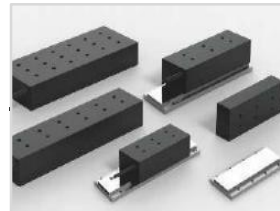
- Thrust range: 5-760N
- No cogging effect
- Round rod length can be customized
- Stable speed, no reverse clearance
- maintenance-free

### Flat Linear Motor

- Thrust range: 90 - 2250 N
- High thrust density
- Good heat dissipation
- Compact structure and simple assembly

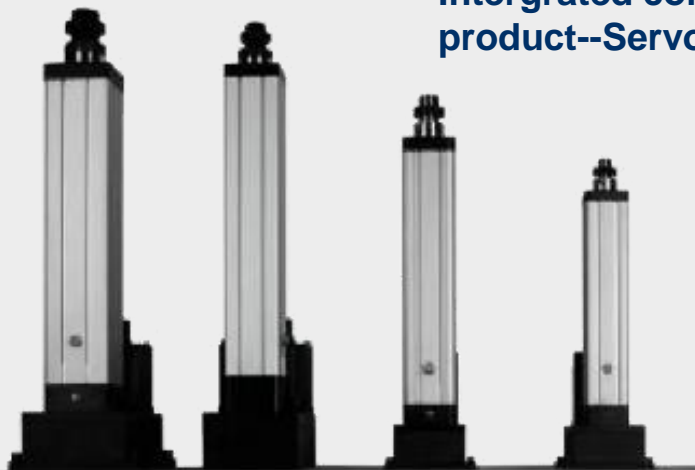
### U-type Linear Motor

- Thrust range: 32 - 1230 N
- No cogging effect
- Non-adsorption capacity
- Light weight and sensitive operation
- No power at high speed





**Intergrated component  
product--Servo cylinder**



Flange	Thrust (Kg)	Stroke (mm)	Speed(mm/s)	Screw diameter (mm)	Push rod diameter(mm)
40	≤50	≤300	≤800	φ12	φ20
50	≤150	≤500	≤1000	φ12	φ25
60	≤300	≤800	≤100	φ16	φ35
75	≤800	≤1200	≤500	φ20	φ45
80	≤2000	≤1700	≤500	φ25	φ50
100	≤3500	≤1700	≤500	φ32	φ60
110	≤5000	≤2000	≤200	φ40	φ75
135	≤10000	≤2000	≤200	φ50	φ90
180	≤20000	≤2200	≤200	φ63	φ110
220	≤50000	≤2200	≤100	φ80	φ150



**Compact structure, simple maintenance, low noise, long life**



**Precise position control**

The repeated positioning accuracy can reach 0.01mm, and the addition of external displacement sensor can reach 0.005mm.



**Precise speed control**

The speed waveform can be arbitrarily set to achieve high-speed and smooth operation without impact, and the control accuracy can reach 0.05%.



**Precise thrust control**

The control accuracy can reach 0.5% after adding an external push and pull sensor.



**Use servo motor, stepper motor, DC motor, AC motor etc.drive mode, to control the servo and frequency conversion**

# Special Servo Motor

Newly developed low voltage servo motor, suitable for logistics transportation, turnstile, hydraulic system and other scenarios.

## AGV ROBOT

- Load: 0.6~2.0 t
- Speed: no load 1.5~2.3m/s,  
load 1.2~2m/s
- Positional accuracy:  $<\pm 10\text{mm}$ ,  $\pm 1^\circ$

Lift power motor



Rotating power motor

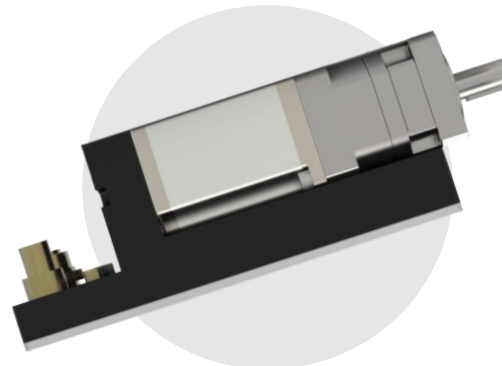


Traveling power motor



## “All in One”--Driver + motor + reducer

- Applicable to 24V/230V devices, supports RS485, CANopen, EtherCAT communication, applicable to a variety of scenarios
- The servo motor and the drive are combined in one, reducing the use of connection cables and reducing costs
- Compact design, small size, can reduce the space
- Low maintenance cost, improve efficiency

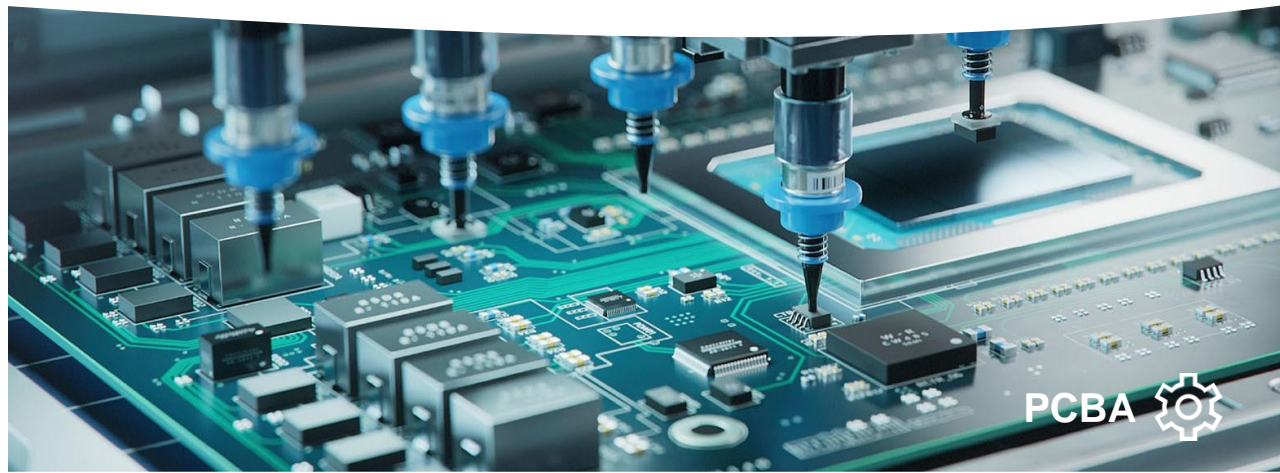




# Application

OLI-MC system products with its high response, high positioning accuracy and stable and reliable operation characteristics, fully meet the 3C equipment high efficiency, mass production and processing needs.

## 3C Equipment's





# Application

From human-computer interaction to system control, from power units to precise actuators, OLI-MC helps the textile industry to fully upgrade to automation, low energy consumption and intelligence.

## Textile



 Double twisting machine

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Stretcher 





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# Application

OLI-MC is committed to clean energy and fully participates in the preparation process of new energy products, providing more efficient and intelligent drive control and execution systems.

## New Energy





# Application

Precise point, tension and line speed control characteristics, can be applied to all kinds of hard and flexible packaging scenarios, accurate filling, coating, conveying and other functions.

## Package







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# Application

In rail transit, airport, commercial channels and other applications, OLI-MC low-voltage series products with excellent performance, low power consumption, quiet and safety features, to provide high-quality, convenient service!

## Gate System







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# Application

OLI-MC low-voltage servo drive and motor silently provide efficient power for intelligent equipment in the field of intelligent logistics and warehousing!

## Smart Logistics



AGV Robot



CTU



Pallet Truck



# COOPERATIVE BRAND





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