



FANUC DRIVER & MOTORS



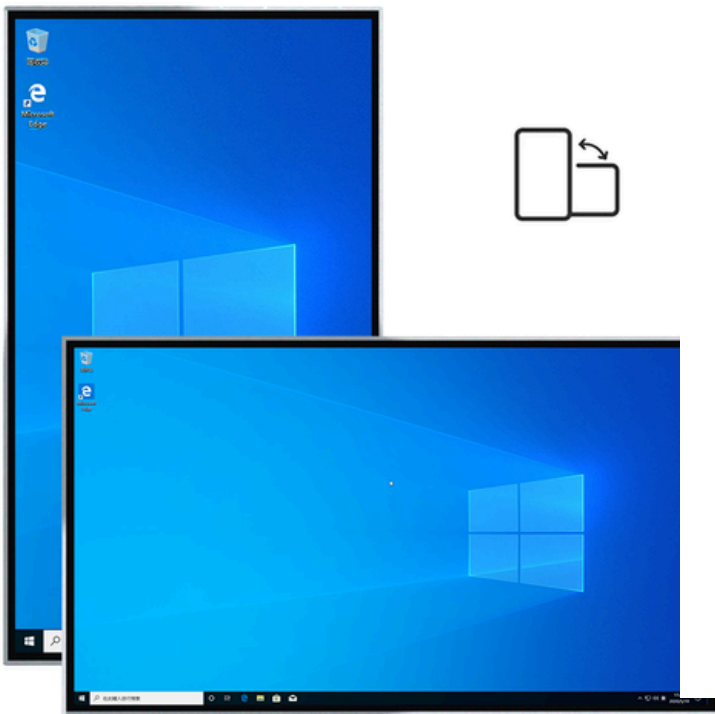
mitsubishi driver & motors



SMC DRIVER & MOTORS



LCD SHARP DISPLAY CNC & MESIN INJEKSI



SCREEN MONITOR



SELF SERVICE KIOSK

Product Introduction

Industrial robot

Slimmed-down body | **Compact design** | **High operational reliability** | **Improved production efficiency** | **Increased load capacity**

- Servo transmission**
 - Multi-station solutions realize flexible production control with high efficiency and rapid response
 - Servo conveyor belt with high repeat positioning accuracy
- Safety automation**
 - High safety level, enhanced security, and streamlined equipment layout
 - Safety system hardware protection with excellent maintainability
- Intelligent and automated robot debugging technology**
 - Human-machine touch screen input enables intelligent robot position adjustment, significantly enhancing efficiency
 - Supports intelligent adjustment of multi-product robot position data
 - Universal compatibility with "4+1" models, strong interoperability, and wireless ETH_NET communication network control
 - Utilizes the D_NET bus network, ensuring simplicity and ease of maintenance
 - The human-machine interface enhances production management by making it more user-friendly

Servo Control System

Traditional servo hydraulic systems operate at higher load rates and correspondingly higher power consumption, thus presenting substantial potential for energy savings. Our servo control system comprises a servo driver, servo motor, and oil pump. It is installed in a dedicated electrical cabinet to ensure effective heat dissipation. The electrical cabinet features an externally connected driver operation panel, facilitating parameter configuration, fault diagnosis, and convenient routine maintenance. Additionally, a touchscreen and other intuitive interfaces can be installed. Compared to traditional three-phase asynchronous motors, it offers energy-saving and high-efficiency advantages. Its main features include:

- Robust Product Protection Capability.**
- Maximized Energy and Electricity Savings.**
- High Stability and Precision.**
- Comprehensive Early Warning System.**
- Specifically Designed for Oil-Electric Control, with Debugging and Maintenance Made Extremely Convenient.**
- Rapid Response, Strong Real-Time Performance.**

Product Introduction

Quick Mold Change System

Data Intelligent/Visual touchscreen operation that is safe, fast, cost-effective, and enhances work efficiency.

Reduce labor costs and enhance work efficiency

Only one operator is needed, and the system can be operated from a safe distance without any tools, minimizing manual labor.

Reduce mold change time and increase production efficiency

The mold change process can be completed simply by selecting options via the control interface (the operation takes only 3-5 minutes, reducing the mold change time for large molds from 120 minutes to approximately 10 minutes). With simple operation buttons to clamp the mold, the standardized procedure also reduces maintenance time.

Advanced nano energy-saving heating coil

The nano energy-saving electric heating ring is an energy-efficient heating product independently designed and developed by our company, which does not affect the original production process or operational procedures. No impact or change. Applicable to injection molding machines, blow molding machines, granulators, extruders, wire drawing machines, blown film machines, and other plastic industry equipment. Key features include:

- Energy-saving with significant power reduction and rapid heating speed (energy savings of 30%-80%). Environmentally friendly, reducing the ambient production temperature. Ambient temperature reduced by 3°-8°. Two-year warranty with a lifespan exceeding five years under normal use.
- Thermal inertia is low, ensuring high temperature control accuracy.
- Heating speed is 20% faster than traditional electric heating coils.
- High Efficiency: The heat transfer efficiency significantly exceeds that of traditional electric heating coils.

Application Cases	Before modification	After modification	Energy Saving Rate
Injection molding machine before modification for the Guangzhou client	Measured power consumption: 28.95 kW/h	Measured electricity consumption per hour: 13.11 kW/h	54.7%
Injection molding machine after modification for the Guangzhou client	Measured electricity consumption after modification of the Zhejiang customer's injection molding machine: 31.5 kW/h	Measured electricity consumption per hour: 14.18 kW/h	55%
Injection molding machine before modification of the Jiangsu customer's blow molding machine	Actual measured electricity consumption is 12.5 kW/h	Measured electricity consumption after modification of the Jiangsu customer's injection molding machine: 5.21 kW/h	58%
Injection molding machine after modification of the Zhongshan customer's blow molding machine	Actual measured electricity consumption is 17.2 kW/h	Measured electricity consumption after modification of the Zhongshan customer's injection molding machine: 9.35 kW/h	46%

Product Introduction

Punch Mandrel Tube Product

Punch Head Series

Utilizes proprietary surface and nitriding treatments to significantly improve wear and corrosion resistance. Corrosion resistance is significantly enhanced, extending product lifespan and reducing the risk of breakage; main products comprise cast iron and alloy types.

Distribute

Material Pipe Series

Our mandrel tubes are manufactured from premium materials and undergo a six-step processing procedure. This product features deep hole internal cylindrical machining followed by grinding and polishing. The form and positional tolerances of the product are precisely controlled, with the inner bore surface roughness achieving a mirror finish. Notably, after vacuum high-pressure gas quenching and bright layer nitriding treatment, the product's wear resistance and erosion resistance are significantly improved. The product demonstrates excellent service life. Thanks to the specialized bright layer treatment applied during our cup melting nitriding process, to date, all mandrel tubes supplied by our company meet customer service life requirements. Notably, the service life of material pipes used by Zhaqing Honda exceeds 100,000 cycles.

Product Introduction

Servo intelligent control and remote monitoring system

Employs real-time data with cloud access anytime, anywhere, enabling automatic pressure control; pressure data, flow data, purity data, Acquisition of temperature data and generation of curve charts, SMS or email forecasting and fault alarms, local automatic linkage control, remote monitoring of the overall equipment system operation status, implementing master-slave sequential control, rotation operation, and centralized control of oxygen generators, energy-saving control, and autonomous optimized operation management. It also assesses the following features:

- Fully automated operation:** In automatic mode, automatic regulation and control, ensuring safety and efficiency.
- Energy-saving and efficient:** Significantly enhances operational efficiency compared to traditional modes.
- Excellent stability:** Suitable for a wide range of complex working conditions.
- Robust human-machine interaction:** The human-machine interface is intuitive, simple, and user-friendly.
- Cloud storage capability:** Operational data of relevant machines or systems are stored in the cloud, enabling users to access and analyze data anytime.

Single-core multi-threaded intelligent power unit

Low energy consumption: Electricity Saving Rate exceeds 50%. Saves electricity, fuel, and space. High efficiency: Closed oil circuit with rapid response, suitable for manufacturing high-precision products. Low oil temperature: Designed for an equipment service life exceeding 10 years. Maintenance convenience: Core hardware is centrally maintained, and oil circuits can be detected and serviced in sections. Suitable for a wide range of industries with strong resistance to environmental interference.

Super Servo Intelligent Unit

- Compact design
- Small footprint
- Higher energy efficiency
- Greater environmental friendliness
- Quieter operation

Dual closed-loop control delivers output on demand, achieving energy savings of over 50%. Intelligent adjustment with ultra-fast response time within 50 ms.

Embedded integrated design featuring low vibration and low noise.

Top-tier heat dissipation ensures low oil temperature and extended service life.

Analogue connectors require no wiring, enabling plug-and-play operation and simple maintenance.

INDUSTRIAL ROBOT

Project Case

Dongfeng Die-Casting Production Toshiba 2500T Die-Casting Machine Dedicated Servo System



On-Site Retrofit Photograph



Pre-Retrofit Waveform Diagram

Post-Retrofit Waveform Diagram

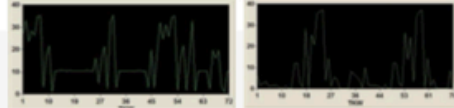
Before Retrofit	After Retrofit
Pre-retrofit on-site test data: hourly power consumption of 2500 T die-casting machine measured at 90 kW-h	Post-retrofit on-site test data: hourly power consumption of 2500 T die-casting machine measured at 45 kW-h
	Electricity Saving Rate 50%

Annual electricity savings per unit after retrofit: 324,000 kWh, approximately 210,600 RMB

Ales TIUbe 7650T&800T Die-Casting Machine Dedicated System



On-Site Retrofit Photograph



Pre-Retrofit Waveform Diagram

Post-Retrofit Waveform Diagram

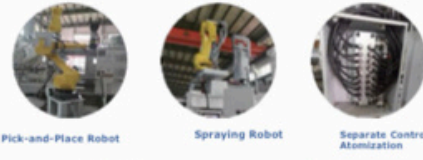
Before Retrofit	After Retrofit
According to on-site actual test data for the 800 T die-casting machine, electricity consumption per hour before retrofit was 24.58 kWh	According to on-site actual test data for the 800 T die-casting machine, electricity consumption per hour after retrofit was 9.8 kWh.
	Electricity Saving Rate up to 60%

Annual electricity savings per unit after retrofit: 112,200 kWh, approximately 73,000 RMB

Project Case

Products case

Automation Equipment



Pick-and-Place Robot

Spraying Robot

Separate Control of Atomization



Product Conveyor Belt

Special Edge Trimming Machine

Dongguan Client, Installation Site

Providing tailored automation solutions and technical support to clients. The primary products include complete system equipment such as pick-and-place robots for die casting machines, spraying robots, insertion robots, deburring robots, lading robots, material handling robots, and loading and unloading robots. We offer customized solutions based on client requirements, providing comprehensive one-stop services encompassing design, manufacturing, installation, commissioning, after-sales support, maintenance, and repair.



Control Cabinet Device

Machine Robot Device

Pick-and-Place Robot

Breakage Robot

Guangzhou Client, UB2500 Automation Installation Site

Application Features

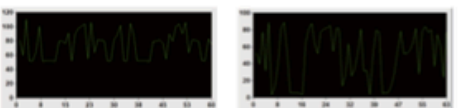
Replacing manual labor in hazardous and challenging environments by efficiently extracting die-cast parts from molds, inserting components into molds, and performing related mold operations. Performing operations such as mold release agent spraying and cleaning to achieve fully automated production capabilities.

Project Case

Nanhai Honda Toshiba 1650T Die-Casting Machine Dedicated Servo System



On-Site Retrofit Photograph



Pre-Retrofit Waveform Diagram

Post-Retrofit Waveform Diagram

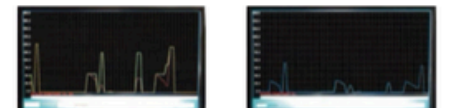
Before Retrofit	After Retrofit
According to on-site actual test data for the 1650 T die-casting machine, electricity consumption per hour before retrofit was 48 kWh	After renovation, on-site actual test data for the die-casting machine 1650 T indicates electricity consumption of 28.59 kW h per hour
	Electricity Saving Rate 40%

Annual electricity savings per unit after retrofit: 249,000 kWh, approximately saving 161,900 RMB per year

Zhongshan Jinteng, Zhongshan Junhao, and Zhongshan Lianhua Xike 90 & 110T hollow blow molding Torque compensation system



On-Site Retrofit Photograph



Waveform Chart

Current Waveform Chart

Before Retrofit	After Retrofit
Before renovation, on-site actual test data: 90T&110 T	After renovation, on-site actual test data: 90T&110 T
The average electricity consumption measured for the Xike blow molding machine is 12.8 kW h per hour	The average electricity consumption measured for the Xike blow molding machine is 1.47 kW h per hour
	Electricity Saving Rate of up to 70% or more

After renovation, the average electricity savings per unit are 71,000 kWh, with an approximate annual saving of 56,800 CNY

Project Case

Products case

Die-casting Machine



Large Columns

Large Columns

Fixed Template



Moving Template After Removal

Processed Template

Processed Template

Milling Surface Project for Small Machine Templates

Disassemble Large Columns and Remove All Interfering Parts; Disassemble Moving and Fixed Templates; Mill the Moving and Fixed Templates to Achieve Flatness (Surface Accuracy $\pm 0.1/500\text{mm}$); After Reassembling All Components, Use an Internal Micrometer and Clamping Force Tester to Inspect Relevant Data; Repair Process Takes Approximately 10 Days.

Template Repair Example



Rust Removal

Welding In

Post-Process



Specialized Milling Machine for Template Milling

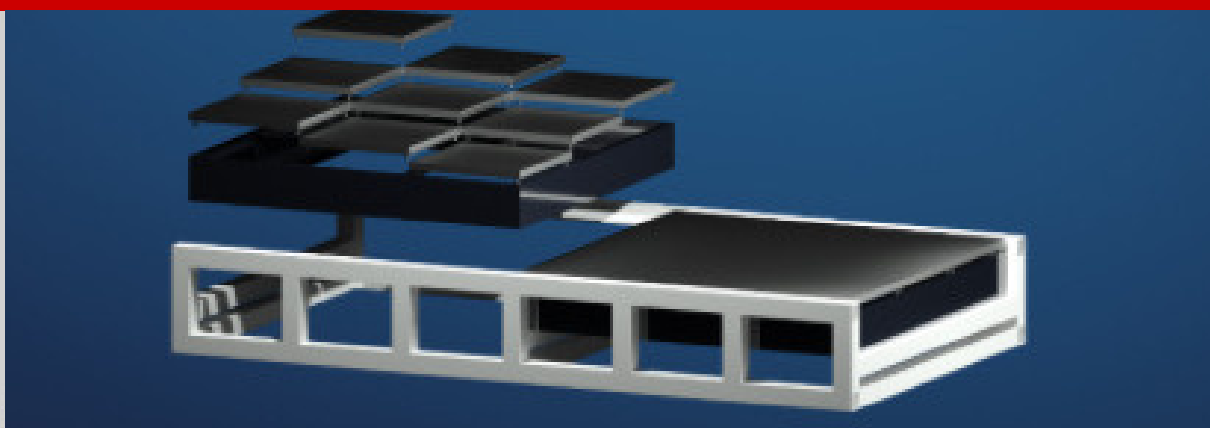
Completion of Processing

Oiling and Maintenance

Template Repair Procedure

Without Dismantling the Template at the Client Site, Perform Welding Repair Directly on the Recessed Areas of the Template on the Die-Casting Machine; As the template is made of casting material, our company employs specialized high-nickel welding rods to perform filling and overlay welding on both the moving and fixed templates, ensuring that the post-weld hardness exceeds the original hardness while maintaining welding quality; Surface restoration is carried out using a dedicated milling machine; Post-restoration flatness reaches $\pm 0.1/500\text{mm}$; the repair period for large equipment is approximately 18 days; This effectively saves time for our clients and generates greater value.

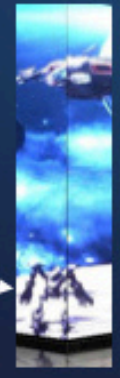
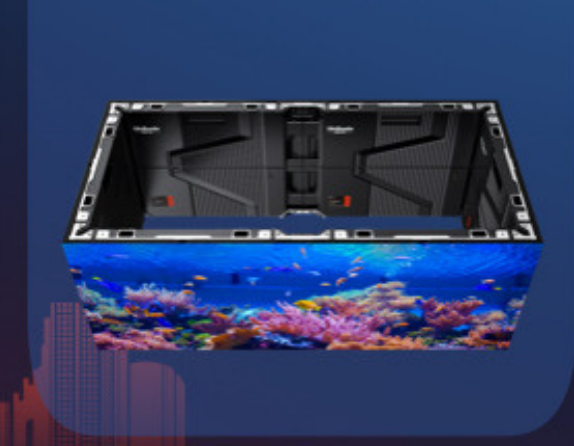
PRODUCT INTRODUCTION



HUB75



HUB320



PANEL & MODUL VIDEOTRON



TEACH PENDANT JZRCR



OMRON SERVO DRIVER



HMI PROFACE