

VEICHI

DRIVE FOR EVER



2025

PRODUCT CATALOG

VEICHI

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Stock Code: 688698



Core values

Serving Customers, Respecting Talent, Openness and Innovation, Cooperation and Win-Win.

Enterprise vision

To becoming a leading enterprise in electric drive and industrial control since its establishment.

Business Philosophy

Guided by market demand, driven by technological innovation

Strategy

- 3 Core Technologies: Motor Drive | Power Electronics | Motion Control
- 2 Application Scenarios: Electrical Drive | Industrial Control
- 3 Marketing Strategies: Import Substitution | System Solutions | Top Customization
- 1 Dream: Lead in Electrical & Industrial Control



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ABOUT VEICHI



 **1700+**
Employees

 **20**
Development history

 **214**
Patents

 **3**
R&D centers

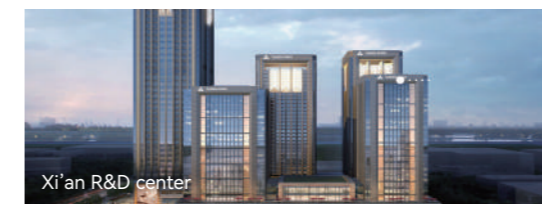
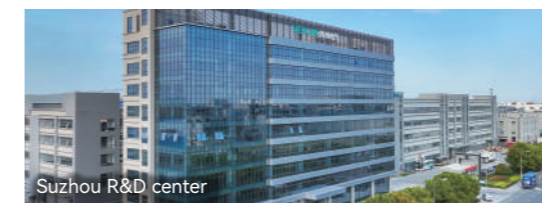
Veichi Electric (Stock Code: 688698) is a leading high-tech enterprise specializing in R&D, production and sales of industrial automation products. Headquartered in Suzhou with R&D centers in Shenzhen and Xi'an and a subsidiary in India, we serve the global markets with competitive and reliable products and system solutions.

The comprehensive product portfolio—spanning AC drives, servo systems, control systems and digital energy solutions, covers all industrial automation layers—management, control, drive, and execution, which is transforming operations in heavy industries, advanced manufacturing, renewable energy, and medical equipment through smart, scenario-based implementations. Moreover, Veichi is also expanding into robotics, new energy and medical fields with innovative products like coreless motors, frameless motors, PV energy storage inverters and surgical power systems.

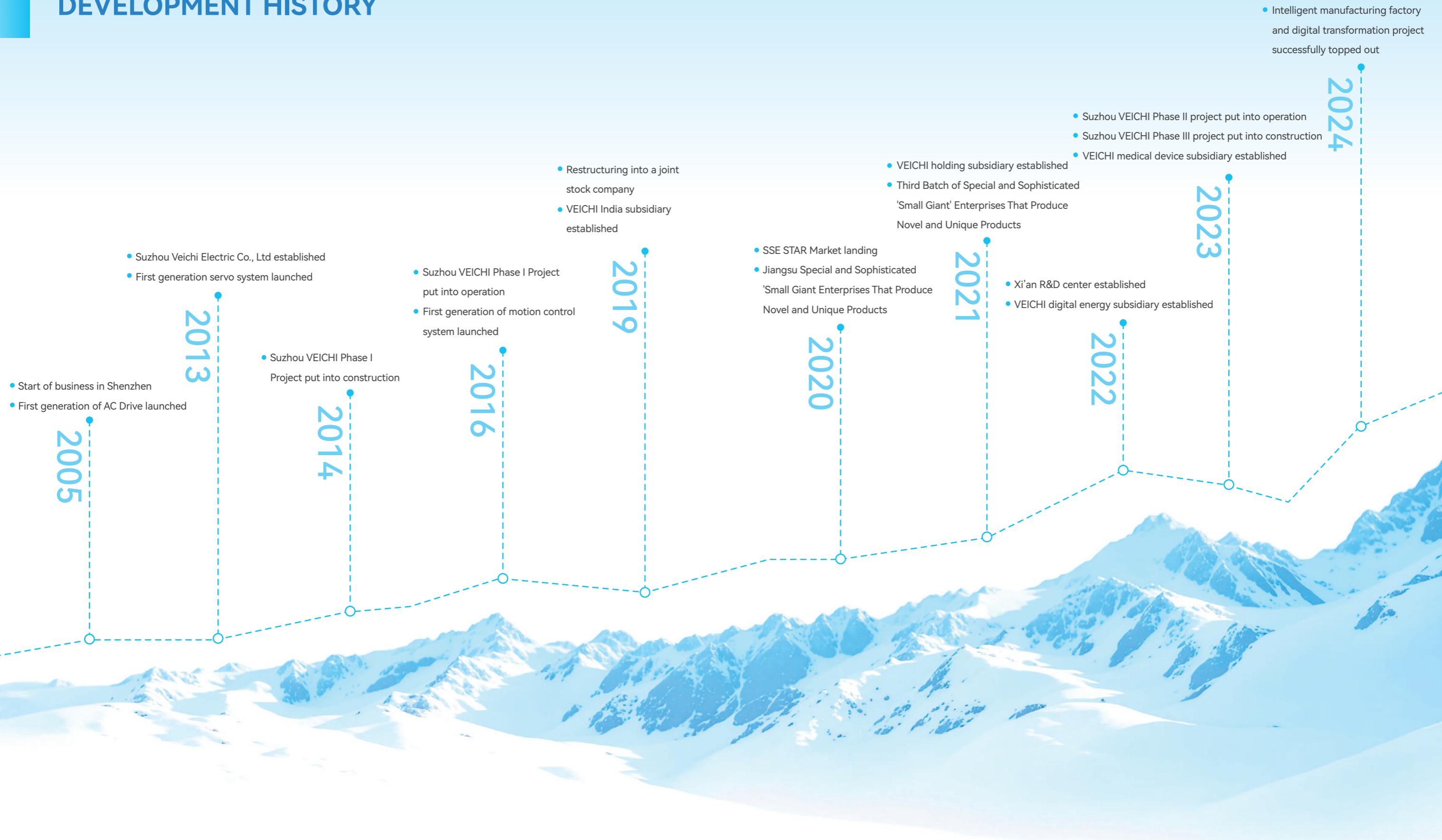
With 214 patents (including 56 invention patents) as of December 31, 2024, its core technological competencies encompasses: Advanced Motor Control-Comprehensive solutions including vector control, HF injection, auto-tuning, and high-speed flux-weakening control for both PMSMs and AMs, Next-Generation Power Electronics-Cutting-edge SiC applications and robust IGBT drive protection systems, Intelligent Operation-Innovative fly track technology for smooth motor startup and reliable V/F scalar control and Thermal Management-High-density water cooling layout solutions for optimal system performance.

These breakthroughs have garnered the company prestigious accreditations from national and provincial authorities, including: Third Batch National Specialized, Sophisticated, Distinctive and Innovative 'Little Giant' Enterprise, National High-Tech Enterprise, Jiangsu Provincial Engineering Technology Research Center, Jiangsu Provincial Enterprise Technology Center, and Jiangsu Industrial Internet Development Demonstration Enterprise (Benchmark Factory Category).

Moving forward, Veichi will uphold the mission of "market-driven innovation and technology-led development," and continue to redouble its commitment to core technology breakthroughs and product upgrades towards high-performance, high-quality, and high-reliability applications, fostering technological progress across the global electrical transmission and industrial control sectors.

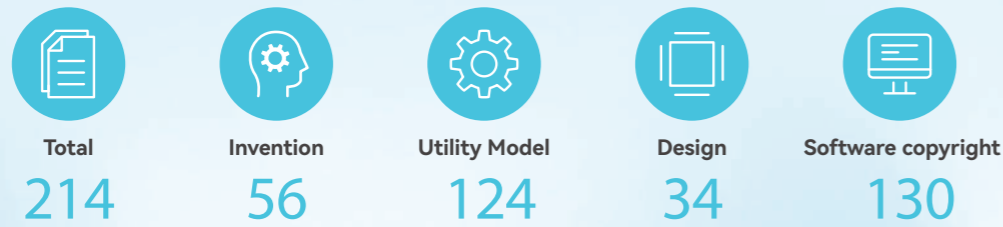


DEVELOPMENT HISTORY



HONORS & CERTIFICATIONS

VEICHI Electric has been awarded the honorable titles from the state and competent authorities thanks to its superior research and development capability and good reputation in the industry including "the Third Batch of Special and Sophisticated 'Small Giant' Enterprises That Produce Novel and Unique Products" "High-tech Enterprises", "Jiangsu Provincial Engineering Technology Research Center", "Jiangsu Provincial Enterprise Technology Center", "Jiangsu Provincial Industrial Internet Development Demonstration Enterprise (Benchmarking Factory Category)" and more, and has accumulated 214 patented technologies including 56 for invention as of December 31, 2024.



TECHNOLOGICAL STRENGTH

01

A number of patents issued, mainly in the areas of electrical drives, industrial controls, green energy, industrial auto-mation equipment, etc.

02

Top-tier domestic professional and technical talents of industrial control assembled, making R&D personnel 35.39% of total workforce, 75.45% holding bachelor's degrees or higher.

03

Annual R&D investment expenditure accounting for about 10% of the operating income for advanced facilities such as a 3-meter anechoic chamber, climate simulation chamber, temperature-humidity-vibration chamber for full-power electric drive tests and multiple industry-specific application tests.

04

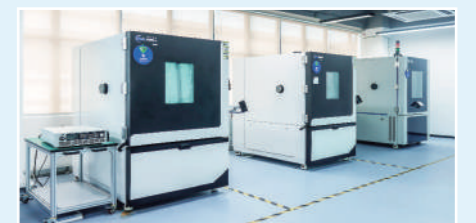
Close collaborative relationships with numerous prominent domestic universities and scientific research institutions, establishing the "Post-doctoral Innovation And Practice Base" and the "Postgraduate Workstation" in Jiangsu Province'.

05

Stable and reliable products based on strong commitment to technological innovation and excellence and customer needs.

06

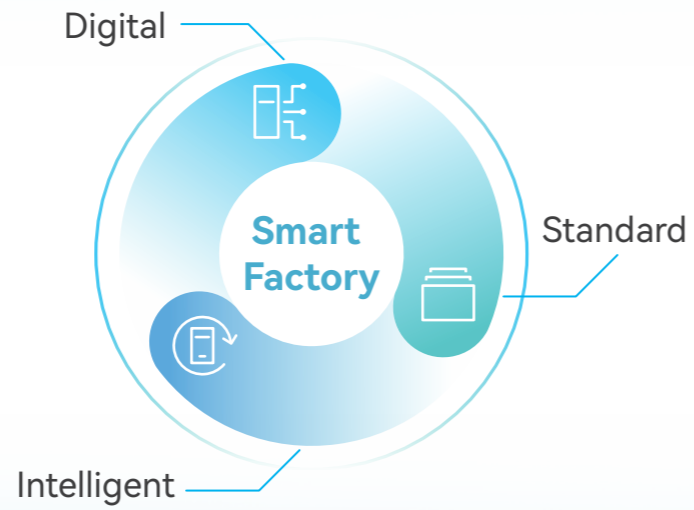
EDA (Electronic Design Automation) principles adopted by the sequence of theoretical design, simulation validation (thermal, circuit, and code simulations), and prototype testing. IPD (Integrated Product Development) process adopted for higher efficiency and collaboration.



MANUFACTURING

Automation Evolution Smart Factories' New Revolution

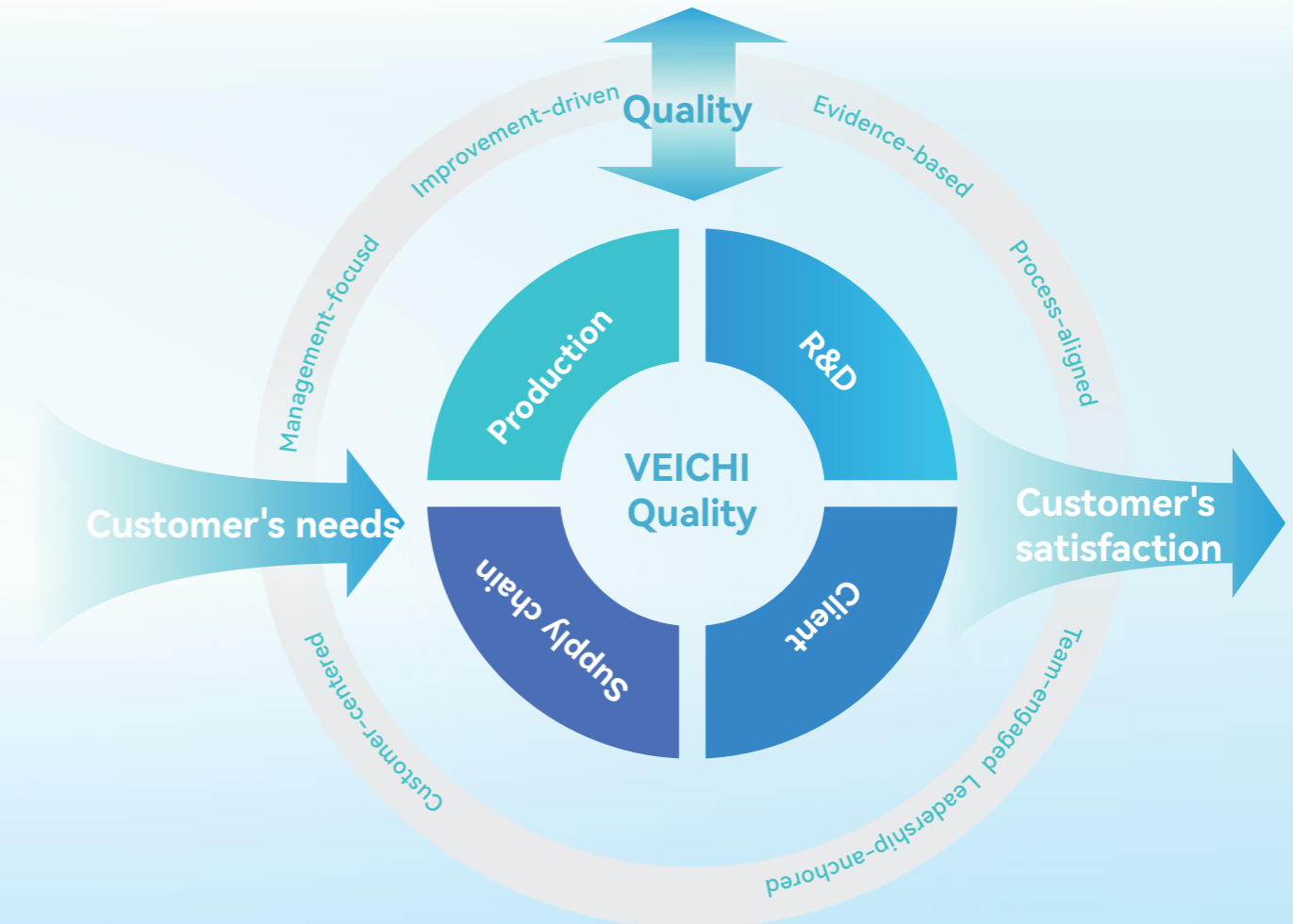
Entire production cycle, from development to planning and execution, fully digitalized and intelligentized, with an annual output of 914,600 units.
Automated full-process quality control model combining a three-phase inspection with proportional checks WMS, MES, and ERP systems ensuring unique codes per piece for phase traceability.



QUALITY MANAGEMENT

Embrace Craftsmanship Create Masterpiece


- Quality-first philosophy and world-leading standards throughout procurement, product development, and production
- Whole series of products passed ISO9001-2015, ISO14001-2015, ISO45001-2018, and CE certification
- Specialized products passed 3C certification
- Customized products compliant with RoHS2.0 directive



PRODUCT FAMILY


-  Management
-  Control
-  Drive
-  Execution

Digital systems



CRM APS SRM MES WMS TMS

Operation system



IOT Digital Procurement System Low-code platform Digital display wall BPM



IOT modules



VC & VH series PLCs



Specialized controllers



VI20 series HMIs



V5 series motion controllers

Automation



AC drives Servo drives Specialized drives

Robotics



Mobile robots Collaborative and humanoid robots

Energy



Solar pump drives Solar energy storage Hydrogen production power supply Electric vehicles Lithium testing

Medicine



Medical drives



Asynchronous motors High-speed motors Synchronous reluctance motors Servo motors Synchronous direct drive motors Gear motors



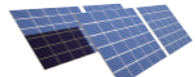
Frameless motors Coreless motors




Low voltage servo motors Specialized robots




Water pumps



Solar panels



Energy storage batteries



Handles and knives

AC DRIVES

Our product system has been meticulously refined to create a comprehensive series covering high-/middle- and low-voltage and single/multi-transmission applications, making our drives a versatile solution for every need.

From 2017 to 2024, we sold and applied 331 million sets of drives and related solutions in industrial automation worldwide, saving electricity by 43.8 billion kWh and carbon emissions by 43.669 million tons.

The exceptional quality and performance have earned unanimous praise from customers, cementing our reputation as a trusted industry leader.



AC01 Series Network-based AC Drive

Single-/three-phase 220V AC, 50Hz/60Hz, 0.4kW~2.2kW
Three-phase 380V AC, 50Hz/60Hz, 0.75kW~7.5kW

Brief

AC01 series network-based drives address the driving needs 7.5kW and below. It features a compact structure and an optimized alarm logic to reduce false alarms and maintain stable operation. Automated production with tri-proof processing lowers its failure rate, making it a booster to finer production for the customers.

Application

Food processing, logistics transmission, photovoltaic machines, looms, kitchen appliances, woodworking machines

Feature

- ◎ Plug-and-play keypad, external LED keypad, and indicators for flexible control
- ◎ Side-by-side installation for efficient space utilization
- ◎ VF control and open-loop vector control compatible with asynchronous and permanent magnet synchronous motors
- ◎ Isolated air ducts and a three-proof coating
- ◎ Tailored alarm protection logic for small and medium power applications
- ◎ High integration of smaller structure and enhanced performance

Note: Please contact the manufacturer if you need S2-4kW drive.

- Optimized quality-price ratio
- Premium design criteria
- Easy operation
- Sleek profile



AC10 Series General-purpose AC Drive

Single-/three-phase 220V AC, 50Hz/60Hz, 0.75kW~2.2kW
Three-phase, 380V AC 50Hz/60Hz, 0.75kW~22kW

Brief

The AC10 series products, with a power rating of 22kW and below, are meticulously crafted to meet the market demand for compact, reliable, and cost-effective drives. It boasts a multitude of advantages, including easy installation, small footprint, low temperature rise, robust protection features, and powerful software capabilities.

Application

Fans and pumps, automated production lines, food packaging lines, logistics equipment, vehicle drives

Feature

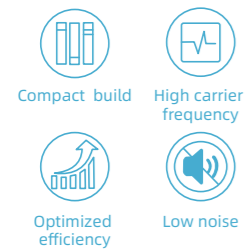
- ◎ Unique cooling channels for full capacity at 50°C
- ◎ Hidden cable ducts for easy wiring
- ◎ Adaptive design for a variety of application environments
- ◎ Comprehensive fault protection
- ◎ Simple appearance with strong, durable construction
- ◎ Rail, side, vertical installation for different models

- Book-like form
- Network capability
- Easy operation
- Flexible mounting



AC12 Series High-speed AC Drive

Three-phase 380V AC 50Hz/60Hz 0.75kW~22kW



Brief

The AC12 series drives are specifically developed for 22kW and high-speed applications. The slim structure supports high-carrier and high-frequency operation and under the default 7kHz carrier frequency, it can bear a maximum frequency output of 3000Hz under V/F control and 1500Hz, open-loop vector control. Optimised devices for high temperature, high frequency and high carrier operation, result in higher efficiency and lower noise under high speed operation.

Application

Looms, food processing, pharmaceutical devices, high-speed fans, etc.

Feature

- ◎ 7kHz~16kHz carrier frequency adjustable with low noise
- ◎ Slim design with high power density and small footprint
- ◎ Reduced energy consumption and operational costs
- ◎ Simplified wiring process for easy installation and use
- ◎ Adaptive protection logic for small and medium power applications



AC320 Series High-speed AC Drive

Three-phase 380V AC, 50Hz/60Hz, 0.75kW~560kW
Three-phase 660V AC, 50Hz/60Hz, 22kW~560kW



Brief

AC320 series drives provide high speed and high carrier motor rotation with excellent performance of high voltage resistance, high temperature resistance and low loss, and at the same time, it excels in efficiency and dimensions and weight for simple power electronic systems. Now, it has been steadily applied to the high-speed permanent magnet synchronous motors in industrial power supply and high-speed air compressor.

Application

Special machines, refrigeration system, chemical devices, pharmaceutical devices, aeration and oxygenation, air compression, HVACR, etc.

Feature

- ◎ Vector control up to 2000Hz and V/F control up to 3000Hz for high-speed motor operation
- ◎ High carrier frequencies up to 16kHz
- ◎ Bus voltage maintenance with energy information feed-forward
- ◎ Special three-proof coating on the PCB board against acid and alkali corrosion
- ◎ Higher EMC circuit configuration with stronger anti-interference capabilities
- ◎ Narrow body structure for easy cabinet formation
- ◎ New algorithms for efficient high-speed motor



AC310 Series High-performance Vector AC Drive

Single-phase 220V AC, 50Hz/60Hz, 0.75kW~15kW
Three-phase 220V AC, 50Hz/60Hz, 0.75kW~220kW
Three-phase 380V AC, 50Hz/60Hz 0.75kW~1120kW
Three-phase 660V AC, 50Hz/60Hz 22kW~1120kW



Brief

The AC310 series of general-purpose drives is available in three voltage classes: 220VAC, 380VAC, and 660VAC, with power ratings ranging from 0.75kW to 1120kW.

The book-style structure with up to 2 extensions and the abundant software functions make it highly adaptive to diverse industrial applications.

Application

Fans, pumps, conveyor belts, mining machines, chemical processing, plastics production, printing and dyeing machines, hoists, paper-making machines, etc.

Feature

- ◎ Compatible to both synchronous/asynchronous motors and open-loop/closed-loop control
- ◎ Maximized space savings for installation
- ◎ Dual SPI ports for GPRS, communication, PG, or I/O extensions
- ◎ Compatible with random carrier functionality for improved noise reduction
- ◎ Industry-specific function blocks like tension and power balance and address mapping
- ◎ User-friendly and quick commissioning with the upper computer



AC330 Series Synchronous Reluctance Motor-special AC Drive

Single-phase 220V AC, 50Hz/60Hz 0.75kW~15kW
Three-phase 220V AC, 50Hz/60Hz, 0.75kW~220kW
Three-phase 380V AC 50Hz/60Hz 0.75kW~1120kW
Three-phase 660V AC 50Hz/60Hz 22kW~1120kW



Brief

The AC330 series drive integrates a dedicated driving algorithm platform for both pure synchronous reluctance motors and auxiliary synchronous reluctance motors for stable motor operation.

Application

Fans, pumps, plastic production, air compressors, machine tool spindles, textile machines, pharmaceutical machines, or on various heavy machinery and equipment of petroleum, chemistry and paper-making, etc.

Feature

- ◎ New high-performance vector algorithm platform specifically designed for synchronous reluctance motors
- ◎ Precise torque excitation decoupling for dynamic response
- ◎ Thermal simulation design for optimized hardware layout
- ◎ Maximized space savings for installation
- ◎ User-friendly and quick commissioning and online firmware upgrade
- ◎ Overall three-proof coating on the casing and PCBs



- Multiple certifications
- High protection level
- Multi-motor compatibility
- Plentiful extensions

AC600 Series High-performance AC Drive

Single-phase 220V AC, 50Hz/60Hz, 0.75kW~15kW Three-phase 380~480V AC, 50Hz/60Hz, 0.75kW~1120kW
 Three-phase 220V AC, 50Hz/60Hz, 0.75kW~220kW Three-phase 660V AC, 50Hz/60Hz, 22kW~1120kW

Brief

The AC600 series is a universal high-performance motor driving product compatible with the leading energy-saving technology in accordance with international standards and requirements of TUV, CE, and UL. And automated manufacturing management ensures its quality consistency.

Application

Chemical processing, offshore vessels, iron and steel production, port machines, automotive equipment, metallurgy machines, paper-making machines, etc.

Feature

- ◎ TUV, CE, UL certificated and IP20/IP54 optional
- ◎ Standard with built-in DC reactors for full series, standard with built-in C3 EMC filter while built-in C2 filter optional
- ◎ Up to 10 groups of function blocks, with each group supporting up to 3 input signals for user DIY computing
- ◎ Compatible with asynchronous motors, permanent magnet synchronous motors, reluctance motors, direct drive motors, torque motors, etc.
- ◎ Optional STO, black box, PROFINET, EtherCAT, EtherNet/IP, CANopen, Modbus-TCP BACnet, 4G, GPRS communication and functional extensions



- SVC/FVC
- Plentiful extensions
- Stable structure
- Advanced motor algorithms

AC200 Series General-purpose AC Drive

Single-/three-phase 220V AC, 50Hz/60Hz, 0.75kW~15kW
 Three-phase, 220V AC 50Hz/60Hz, 0.75kW~15kW
 Three-phase, 380V AC 50Hz/60Hz, 0.75kW~560kW

Brief

AC200 series is a high-performance drive designed for general purposes. Compatibility to open-loop and closed-loop vector control of asynchronous motors and permanent magnet synchronous motors, and the Hamburg-style hardware layout allow higher applicability to different scenarios industries.

Application

Fans, pumps, compressors, chemical processing, metallurgy machines, petroleum and petrochemical machines, municipal engineering, plastic machines, harbor equipment etc.

Feature

- ◎ Stronger protection and adaptability to various environments due to the superimposed layout
- ◎ Dual motor control for permanent magnet synchronous and asynchronous motors
- ◎ 1.5 times of rated torque at 0.5Hz under SVC while 2 times 0Hz under FVC for startup
- ◎ Standard with Modbus-RTU, and CANopen and PROFIBUS-DP available
- ◎ User-friendly debugging software available



- SVC control algorithm
- Superior flux algorithm
- Wide grid voltage
- Multifaceted software features

AC70 Series High-performance SVC AC Drive

Three-phase 380V AC, 50Hz/60Hz, 0.75kW~560kW

Brief

AC70 series is a high-performance open-loop vector drive that has been field-tested thousands of times, gaining acclamation from many customers for its excellent control performance, strong environmental adaptability, and solid and durable quality.

Application

Fans and pumps, air compressors, wire drawers, injection molding machines, ball grinders, machine tools, industrial washing machines, hoists etc.

Feature

- ◎ SVC control with precise torque and rapid response
- ◎ 150% of rated load for 60 seconds and 180% for 10 seconds
- ◎ Unique hardware structure with longer lifespan
- ◎ Dust-resistant design and independent air ducts
- ◎ Enhanced PCB coating treatment
- ◎ Easy installation, debugging, and maintenance



- Superior control performance
- Parallel operation
- Common DC bus
- Plentiful extensions

AC800 Series AC Multi-drive System

Inverter module:	Active rectifier module:	Basic rectifier module:
Three-phase 400V AC, 2.2kW~500kW	Three-phase 400V AC, 64kW~560kW	Three-phase 400V AC, 475kW~648kW
Three-phase 690V AC, 55kW~710kW	Three-phase 690V AC, 117kW~639kW	Three-phase 690V AC, 650kW~929kW
Feedback rectifier module:	DC chopper module:	Three-phase brake module:
Three-phase 400V AC, 161kW~595kW	Three-phase 400V AC, 50kW~500kW	Three-phase 400V AC, 500kW~750kW
Three-phase 690V AC, 180kW~1026kW	Three-phase 690V AC, 100kW~600kW	Three-phase 690V AC, 870kW~1300kW

Brief

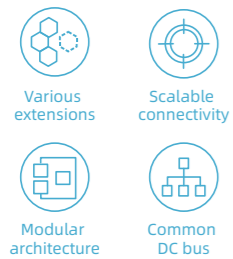
The AC800 series engineering multi-drive product, crafted by Veichi Electric, is a high-end solution tailored for process automation and large-scale drive applications. It represents the pinnacle of technological expertise and market insight, offering exceptional control performance and a deep understanding of industry needs.

Application

Metallurgy machines, petroleum and petrochemical processing, ship and offshore engineering, port equipment, paper-making machines, building materials production, motor testers, variable frequency power supply, power generation and on-grid connection.

Feature

- ◎ Modular design for smaller footprint and higher system efficiency
- ◎ Common DC bus for less overall system power consumption due to energy flow between inverter units
- ◎ A variety of communication protocols and encoders, with multiple built-in application macros
- ◎ Fast response speed and high control accuracy
- ◎ STO function and a range of fault handling and protection measures
- ◎ Parallel operation of multiple modules, total power capacity of up to 5.6MW



AC810 Series AC Multi-drive System

Basic rectifier module Three-phase 400V AC, 22kW/45kW/110kW/160kW
 Inverter module Three-phase 400V AC, 1.5kW~75kW

Brief

The AC810 series standard multi-drive product is a high-performance solution specifically designed for OEM multi-point drive applications and small system support in the EU industry.

Application

Metal processing, printing machines, packaging processing, textile production, logistics and warehousing machines, small-scale paper-making machines, and lithium-ion battery manufacturing

Feature

- Equal width and height for smaller footprint
- Common DC bus for less overall system power consumption due to energy flow between inverter units
- Rotating overlap design for easy common DC busbar wiring and lower wiring cost
- Rectifier configured for fewer incoming power distribution devices and power cables
- Flexible networking and extensions for CANopen, PROFINET (PN), PROFIBUS-DP (DP), EtherCAT (ETC), and more
- STO function and built-in DC fuses for safe operation



ACH100 Series High-voltage AC Drive

Three-phase 6kV, 250kW~13000kW
 Three-phase 10kV, 315kW~17000kW

Brief

This is a high-high voltage source-type AC drive featuring stable input shift rectification, bridge inverter technology and the unit tandem stacking technology.

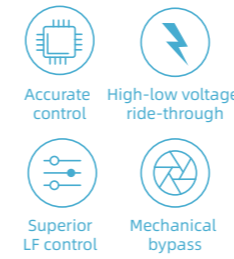
With a strong R&D platform and advanced production process, this high-voltage frequency conversion speed control system delivers high control accuracy and low harmonic content under both V/F and vector control.

Application

Fans, pumps, compressors, belt machines etc.

Feature

- Hardware innovation of open and closed-loop vector control for low harmonics
- Strong grid adaptability by the high and low voltage ride-through
- Fiber optic communication and optocoupler isolation for strong and weak power
- Automatic bypass optional for the power unit
- Multi-phase shift rectifier input and multi-level drive output for harmonic-free operation
- Master-slave control and automatic power balance suitable for multi-motor systems like mining belt conveyors



ACH200 Series High-voltage AC Drive

Three-phase 6kV, 315kW~2000kW
 Three-phase 10kV, 400kW~4000kW

Brief

ACH200 series, the new generation of integrated high-voltage drive, is designed on a two-quadrant asynchronous/synchronous platform based on years of technical expertise and in-depth market research. It incorporates mature power unit series connection technology, dual-core microprocessor control with DSP+FPGA, and flux vector control algorithms. Together with its compact size, high control accuracy, fast response, low-frequency output, and high output torque, it is suitable for a wide range of complex application conditions.

Application

Metallurgy machines, petroleum and chemical processing, mining machines, municipal engineering, electric power, HVAC, paper-making machines, fans, pumps, compressors, belt machines, roller machines, ball mills, etc.

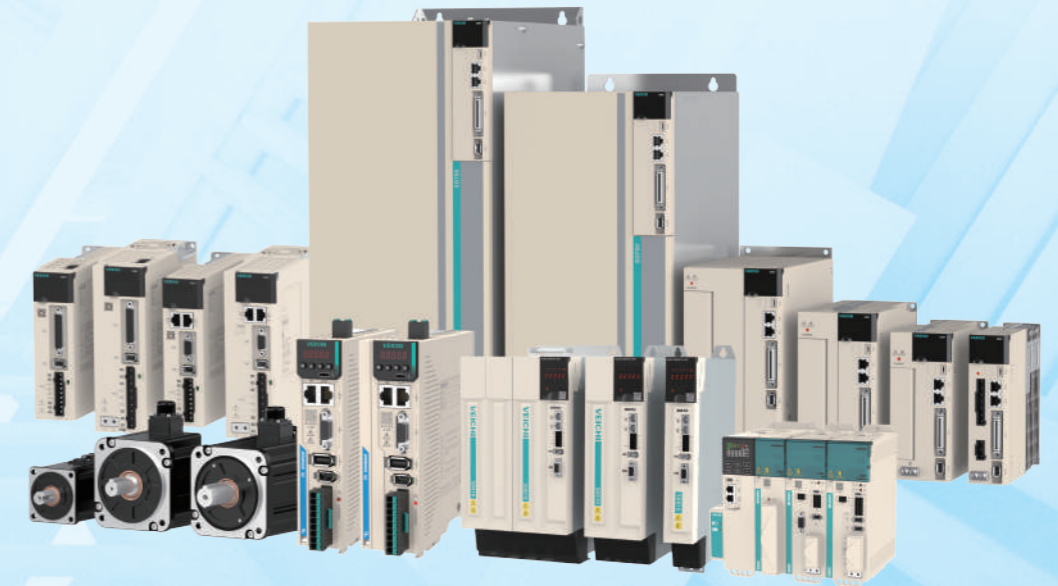
Feature

- Fast and precise loop control by DSP+FPGA architecture
- Excellent low-frequency control through dead-zone compensation and oscillation suppression
- Standard metal film capacitors for lower heat generation, longer life, and better stability
- Mechanical unit bypass of symmetrical and neutral point offset bypass available
- Non-perturbative switching with or without reactors by frequency and phase lock
- Strong grid adaptability and a wide range of applications by the high and low voltage ride-through

SERVO SYSTEM

Harnessing cutting-edge advancements in servo drive and motor core technology, we deliver unparalleled speed, performance, and precision to meet the most demanding R&D standards.

Our comprehensive power band portfolio ensures seamless adaptability, while our diversified product system—spanning single and multi-axis configurations—provides complete application coverage. Through relentless technological innovation and user-centric design, we elevate servo systems to new heights of efficiency and reliability, securing a dominant competitive edge in the market.



SD900 Series Flagship Servo Drives

Single-phase 220V, 0.1kW~2.3kW
Three-phase 380V, 0.85kW~7.5kW

Brief

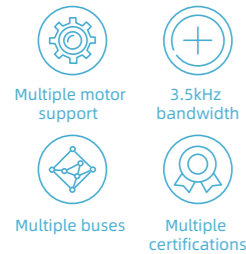
Elevating motion control to unprecedented levels, the SD900 Series represents VEICHI's latest breakthrough in servo technology. Designed for versatility and precision, this advanced platform seamlessly supports rotary motors, linear motors, and direct-drive rotary (DDR) systems, making it the ideal choice for high-speed, high-accuracy applications. It integrates EtherCAT for real-time, high-speed communication, ensuring seamless synchronization in automated systems. The standard model features a dynamic braking function for precise motor control and rapid deceleration. For enhanced operational safety, an optional STO function provides immediate torque shutdown to protect both equipment and personnel in critical situations.

Feature

- ◎ Convenient WIFI remote debugging
- ◎ Standard with dynamic braking
- ◎ One-touch auto-tuning
- ◎ Certified to CE, UL, and TUV standards

Application

3C electronics, lithium batteries, photovoltaic devices, machine tools, printing and packaging machines, etc.



SD700 Series High-performance Servo Drive

Single-phase 220V, 0.1kW~1kW
Three-phase 220V, 1kW~4.4kW
Three-phase 380V, 1kW~200kW

Brief

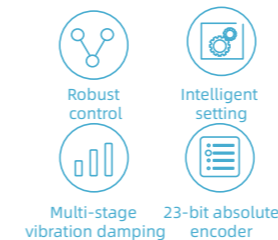
VEICHI's SD700 Series embodies the forefront of servo technology, featuring proprietary advancements that redefine performance standards. By integrating next-generation control algorithms, this sophisticated drive system achieves lightning-fast dynamic response, unrivaled operational stability and microscopic-level motion precision. It offers exceptional flexibility through integrated support for EtherCAT, PROFINET, Canopen, and M3 bus protocols, enabling reliable interoperability in complex industrial environments.

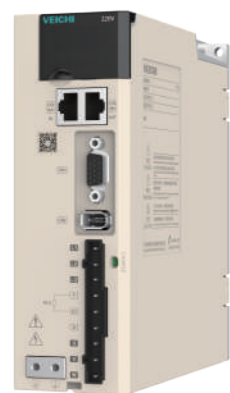
Feature

- ◎ Ultra-high speed response up to 3kHz bandwidth
- ◎ 23-bit absolute encoder with 2.5Mbps high-speed communication
- ◎ Automatic bandwidth configuration and PID loop gain calculation
- ◎ Feature-rich PC software with multi-channel real-time monitoring
- ◎ Compatible with EtherCAT, PROFINET, CANopen, RS485, MECHATROLINK-II/III
- ◎ Smart parameter configuration of inertia identification, loop gain and friction compensation

Application

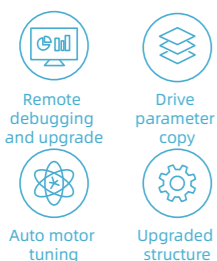
Electronic manufacturing equipment, CNC equipment, packaging machines, printing machines, textile machines, plastic machines and glass equipment, testing equipment, etc.





SD710 Series General-purpose Servo Drive

Single-phase 220V, 0.1kW~1kW
 Three-phase 220V, 1kW~1.5kW
 Three-phase 380V, 1kW



Brief

The SD710 drive enhances motion control performance with its intelligent auto-tuning system, which can automatically adjust parameters, reduce vibration, and compensate for friction to ensure stable operation. Compatible with 17-bit and 23-bit encoders, it boasts micron-level accuracy and significantly cuts setup time, offering reliable precision and seamless integration for modern automation.

Application

3C electronics, lithium batteries, woodworking machines, packaging machines, robotics, logistics equipment, food processing, textile production etc.

Feature

- Motor with 23-bit encoder offering 3kHz speed loop bandwidth for ultra-responsive operation in dynamic applications
- Comprehensive communication options with Micro USB (host PC)/RS485 as standard and CANopen/EtherCAT for option
- Handheld setup wizard of installation and commissioning
- Parameter cloning function for quick duplication of settings across identical drives
- Upgraded components with reduced structure
- Position retention during power loss with absolute encoder
- Long lifespan and diverse applications for different encoders



SD780 Series General-type Servo Drive

Single-phase 220V, 0.1kW~1kW



Brief

The SD780 series represents VEICHI's latest innovation in servo technology, featuring enhanced hardware protection against voltage spikes and current overloads, superior anti-interference capability for stable operation in harsh environments and comprehensive performance upgrades for improved speed control and positioning accuracy. It is certified to CE and UL standards for equipment export.

Application

3C electronics, lithium-ion batteries, semiconductors, new energy devices, photovoltaic devices etc.

Feature

- Robust hardware protection and EMI interference in accordance to UL/CE for compliance with North American & European markets
- STO SIL3 safety certification for failsafe operation
- Multi-protocol support of CANopen and EtherCAT for seamless PLC integration
- Handheld setup wizard of installation and commissioning
- Parameter cloning function for quick duplication of settings across identical drives
- High-performance V7U motor with IP67 featuring 5°C ~10°C lower temperature rise and 0.02mm axis runout accuracy



SD860 Series Low-/Medium-power Servo MultiDrive

Rectifier module
 Three-phase 380V AC, 7.5kW/15kW/22kW
 Inverter module
 540V DC, 1kW~7.5kW



Brief

Next-generation multi-transmission servo drive for small-to-medium power applications (0.1kW~7.5kW)-combines energy efficiency with compact design through common DC bus architecture for optimal power distribution, modular construction for smaller installation footprint, and advanced network integration(EtherCAT/PROFINET/M-III) for seamless automation.

Application

Machine tools, printing and packaging machines, automated production lines, robotics etc.

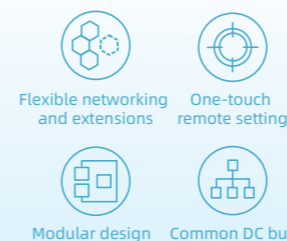
Feature

- Industry-leading power density with minimized cabinet
- Shared control chip of dual-axis for reduced communication latency and enhanced interpolation accuracy
- Common DC bus and braking resistor-free
- Unified bus connection for all slave axes for simplified network topology
- Simultaneous parameter deployment to multiple drives via fieldbus instead of manual drive-by-drive programming
- Customizable servo-drive combinations adaptable to diverse automation scenarios
- Global safety compliance of CE/UL/STO



SD810 Series Medium and High Power Servo MultiDrive

Rectifier module
 Three-phase 380V AC, 22kW~160kW
 Inverter module
 540V DC, 1kW~75kW



Brief

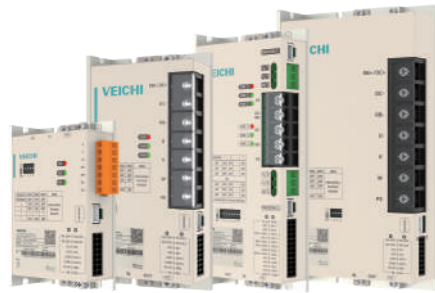
Next-generation multi-transmission servo drive for medium-to-high power applications (0.1kW~75kW)-combines energy efficiency with compact design through common DC bus architecture for optimal power distribution, and modular construction for smaller installation footprint, providing effective solutions for application scenarios in all-electric injection molding, die-casting and bending, printing and packaging, and laser cutting, etc.

Application

Plastic injection molding, lithium batteries, printing and packaging machines, metal production, laser cutting machines.

Feature

- Rectifier & inverter side-by-side installation for better cabinet space utilization by 30%
- Parallel busbar power distribution delivering 5%~30% energy reduction compared to standalone units
- Certified safety assurance compliant with CE, STO, SIL3 safety standards
- Extended power range compatible for 100W~75kW motors



SD100 series low-voltage Servo Drive

DC 24V~70V
Single-axis drive: 50W~7500W
Dual-axis drive: 100W~1500W

Brief

The SD100 Series represents our commitment to delivering refined motion control solutions for specialized applications. Incorporating an advanced algorithmic foundation, this system offers versatile single, dual, and multi-axis control capabilities within a thoughtfully compact design. Engineered with precision in mind, the solution balances performance with practicality, providing smooth and accurate positioning capabilities and dependable operational consistency.



Application

Various types of mobile robots (AMR, AGV), service robots, special robots, logistics warehousing and sorting devices, medical equipment, and other occasions with certain requirements on voltage and volume.

Feature

- ◎ Premium European-style and quick-connect terminals for effortless operation
- ◎ Type-C interface and optional wireless module for streamlined debugging
- ◎ Unified motor-encoder cable design with customizable lengths
- ◎ Extended voltage range: DC 24V~70V
- ◎ Versatile control modes: position/speed/torque with hybrid operation capabilities
- ◎ Space-optimized design with industry-leading power density

RB300 Series Integrated Servo Motor



Brief

Integrating a low-voltage synchronous motor, high-resolution encoder, and servo drive into a compact unit, the RB300 series delivers outstanding performance characterized by exceptional precision, rapid dynamic response, and reliable high-speed operation.

Its revolutionary integrated design eliminates the need for external cabling, reducing installation space while simultaneously cutting material costs due to minimized connection points, making it particularly well-suited for space-constrained applications across various industries.

Application

Industrial mobile robots, service mobile robots, special mobile robots, automation equipment, etc.

Feature

- ◎ 40%+ space reduction, 50%+ wiring cost saving
- ◎ Integrated drive/encoder/motor with optional brake
- ◎ Plug-and-play operation—only power and signal cables required
- ◎ Dual-port communication for flexible networking



V9E Series General-purpose Servo Motor

Brief

Building on decades of motion control expertise, the V9E series - VEICHI's next evolution in servo motor technology, boasts advanced electromagnetic architecture for optimized efficiency, enhanced cooling design that reduces operating temperatures and precision manufacturing ensuring consistent quality. And there is also a wide selection of inertia levels covering various complex applications.

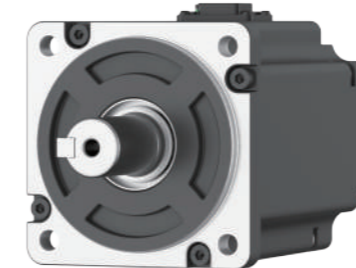
Feature

- ◎ Tailored solutions for specialized shaft outputs and mounting requirements
- ◎ Battery-free encoder option for maintenance-free operation and eco-efficiency
- ◎ Larger portfolio with new ultra-low inertia models with 60/80mm flange and low-inertia models with 100/130mm flange
- ◎ High-resolution 24-bit+ encoder option for unmatched motion control
- ◎ V9E series fully compliant with GB30253-1 energy efficiency standards
- ◎ Robust IP67 (shaft excluded) for demanding industrial environments against water spray, dust, and metal chips

Application

Semiconductor production, industrial robots, automated production lines, precision machine tools etc.

V7E Series Servo Motor



Brief

V7E series, our modest contribution to servo motor, offers power ratings from 0.1kW to 7.5kW with frame sizes spanning 40mm to 180mm. It is designed to address fundamental motion control needs in 3C electronics manufacturing, woodworking machinery, lithium battery production, machine tools and material handling systems that require precise control of speed, torque and position with improvement in the aspect of protection level and motor size from the previous products.

Feature

- ◎ IP67 protection (full series)
- ◎ Higher slot fill factor and larger winding diameter - 20% lower heat generation vs VM7
- ◎ 3~4 times higher overload capability
- ◎ Optimized permanent magnet design with high demagnetization resistance
- ◎ Precision dynamic balancing - minimal shaft runout, faster response
- ◎ Compliant with CE & EAC certification standards

Application

Electronics manufacturing, woodworking machines, robots, packaging machines, machine tools, textile production, lithium-ion batteries, logistics machines, etc.

CONTROL SYSTEM

By leveraging strategic synergies and optimized product portfolios, we are keeping strengthening our leadership in the small-sized PLC section while making targeted advances into premium market segments of medium and large PLC solutions, enabling us to deliver comprehensive automation solutions across the full spectrum of industrial applications. This expansion strategy will progressively enhance our system integration capabilities and service offerings to meet evolving market demands.



VH600 Series General-purpose Medium PLC

Brief

As VEICHI's premier medium-sized high-performance PLC solution, the VH600 series combines a quad-core processor architecture with exceptional computing power and precise control capabilities. Its advanced 2ms synchronization cycle enables seamless synchronous control of up to 16 EtherCAT axes, making it ideal for complex motion control applications. Engineered for professional automation environments, the VH600 series offers full compatibility with industry standards including: CODESYS standard development platform, IEC 61131-3 programming specifications and PLCopen motion control standards.

Application

New energy application, logistics machines, photovoltaic equipment, machine tools, packaging machines, automated assembly systems, etc.

Feature

- ◎ Quad-core processor with nanosecond-speed instruction processing
- ◎ Multi-language programming (LD, FBD, ST, SFC, CFC) compliant with IEC 61131-3 standards
- ◎ Multi-protocol support: EtherCAT, EtherNet/IP, OPC UA, Modbus-TCP, RS485, CANopen bus
- ◎ 128-axis EtherCAT control (real/virtual axes) with 16-axis electronic cam (2ms sync cycle)
- ◎ Precision motion control featuring linear/arc interpolation, electronic gears and cams
- ◎ Scalable I/O with support for 128 EtherCAT slaves and extensive interface integration
- ◎ 10MB program storage with 512KB flash retention and 20MB data capacity



VH500 Series EtherCAT PLC

Brief

Designed to address contemporary industrial demands, the VH500 series integrates proven EtherCAT bus technology with efficient dual-network redundancy. Its compact modular architecture accommodates up to 16 right-mounted expansion modules and one left-side interface board, while delivering stable multi-protocol connectivity via built-in RS485, EtherNet, CANopen and EtherCAT ports. Furthermore, the practical FB/FC programming environment facilitates streamlined process encapsulation and flexible reuse across diverse automation scenarios.

Application

Machine tools, textile production, packaging machines, plastic processing, air conditioners, elevators, printing machines, etc.

Feature

- ◎ 48 real-axis motion control (64 axes including virtual)
- ◎ 72 EtherCAT slave devices with ultra-fast 250μs communication cycle
- ◎ 8×200kHz high-speed pulse I/O
- ◎ 1×left extension board + 16×right extension modules
- ◎ Dual EtherNet ports for flexible cascading and networking
- ◎ Offline debugging & online modification
- ◎ Compact structure with PUSH IN terminals

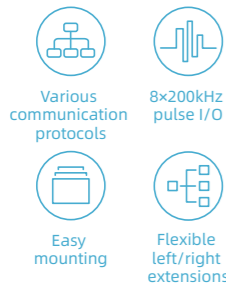




VH300 Series High-performance PLC

Brief

Combining a sleek, lightweight modular design with a powerful dual-CPU architecture, the VH300 series delivers exceptional processing performance for demanding applications. Its optimized instruction execution makes it ideal for multi-channel pulse control systems, and the flexible expansion capabilities—supporting up to 16 right-side modules and an additional left card—smoothly accommodates shifting operational needs, advanced scalability and flexible customization.



Application

Machine tools, textile production, packaging machines, plastic steel production, air conditioners, elevators, printing machines, etc.

Feature

- ◎ CANopen(301/402 protocol) communication
- ◎ 8×200kHz high-speed pulse train input and output
- ◎ 1×left extension board + 16×right extension modules
- ◎ 1×RS485 standard and 2×RS485 expandable
- ◎ Compatible with Modbus-TCP master-slave and free TCP protocols
- ◎ USB debugging and SD card firmware upgrades for quick maintenance
- ◎ Compact structure with PUSH IN terminals



VH100-0808TN Standalone PLC

Brief

The VH100-0808TN is standalone PLC designed for applications where compact size is essential. This cost-effective solution features RS232 and RS485 dual communication interfaces and 8 digital inputs and 8 digital outputs, which is ideal for small-scale automation applications.



Application

Machine tools, textile production, packaging machines, plastic steel processing, food processing, printing machines, etc.

Feature

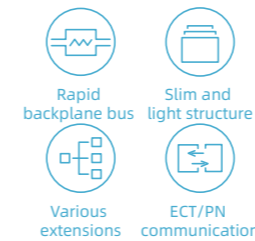
- ◎ 2×50kHz + 6×10kHz high-speed counters
- ◎ 3×100kHz pulse train output with full positioning control commands
- ◎ Built-in USB port for easy debugging
- ◎ 1×RS232 + 1×RS485
- ◎ Multiple programming languages



VH Series Slimline Remote Module

Brief

VEICHI introduces its next-generation expansion solution: the VH Series Remote Module. Designed with a compact, lightweight form factor, it provides rapid signal acquisition, simple installation, and proven reliability. Compatible with standard bus networks, it delivers microsecond-level response times—ideal for precision automation and control systems.



Application

Machine tools, textile production, packaging machines, plastic processing, printing machines, etc.

Feature

- ◎ EtherCAT/PROFINET modules for versatile fieldbus integration
- ◎ Microsecond-level communication cycles as low as 125μs
- ◎ 16 right extension modules per coupler
- ◎ DI/DO, AI/AO, RTD sensors, thermocouples supported
- ◎ Compact design reduces cabinet space requirements by 2/3
- ◎ 100Mbps self-developed backplane for rapid data transfer.
- ◎ Vertical pluggable terminals for easy installation and maintenance
- ◎ Gold-plated terminals against corrosion for long-term service



VC5 Series PLC

Brief

Leveraging advanced bus-architecture technology, the VC5 series represents VEICHI's most sophisticated integration of high-density motion control in a compact PLC platform. It excels due to an advanced dual-core processor architecture that significantly enhances overall system performance and processing capability, an exceptional communication cycle time of just 250μs, remarkable sync accuracy within ±80ns, and up to 32 EtherCAT real axes, delivering professional-grade motion capabilities for sophisticated automation.



Application

Robots, machine tools, packaging machines, automated assembly systems, etc.

Feature

- ◎ 32-axis EtherCAT control with positioning/speed/torque/interpolation
- ◎ Up to 72 EtherCAT slaves
- ◎ RS485/CANopen/EtherNet/EtherCAT interfaces
- ◎ PLCopen compliant for up to 32-axis motion control
- ◎ Standard with 4×200kHz pulse output & 8×200kHz pulse input
- ◎ LD/SFC and function block for quick programming
- ◎ Linear/circular interpolation, e-cam/e-gear



VC3 Series PLC

Brief

The VC3 series, VEICHI's third-generation compact PLC, is designed with superior processing performance via breakthrough dual-core architecture. Tailored for modern automation systems, this solution couples exceptional processing strength with versatile control capabilities to master small-scale industrial applications.

Application

Auto production lines, woodworking machines, glass machines, handling/loading/unloading machines, customized electronic production



VI30 Series HMI

Brief

Engineered with rugged ABS construction, this advanced HMI withstands punishing industrial environments effortlessly. Its sleek new design cuts costs without compromising performance, while multiple high-res displays offer crystal-clear visibility for any application. Seamlessly integrate across facilities with versatile RS-232/485/422 support, adapting instantly to diverse control systems. Whether facing dust, moisture or extreme temperatures, this solution delivers unwavering reliability where it matters most.

Application

CNC machine tools, industrial automation, medical equipment, and smart home appliances

- 64k user steps
- 8x200kHz pulse I/O
- Quick firmware upgrade
- IO extension modules

Feature

- ◎ CANopen(301/402 protocol) communication
- ◎ 8x200kHz pulse train I/O with external interrupt and positioning functions
- ◎ Up to 15 expansion modules
- ◎ 1xRS232 and 1xRS485 standard and 1xRS485 expandable
- ◎ Modbus-TCP protocol and fast program download
- ◎ Convenient USB setup and troubleshooting
- ◎ Space-saving design with powerful functionality at competitive pricing

- Various ports
- High-definition widescreen
- Large memory capacity
- New-gen configuration software

Feature

- ◎ 800MHz ARM processor for industrial-grade computing with optimized power efficiency
- ◎ RS232/RS485/RS422/LAN/USB integration available
- ◎ High-res widescreen display with crisp detail for industrial monitoring
- ◎ Flexible host configuration for customized operation
- ◎ Multiple capacity selections



VC1 Series PLC

Brief

The VC1 series PLC is a compact, high-performance programmable logic controller that delivers robust functionality and exceptional cost efficiency.

Application

Machine tools, textile production, packaging machines, plastic steel production, air conditioners, elevators, printing machines, etc.



VI20 Series HMI

Brief

The VI20 Series represents our effort to develop a reliable yet cost-effective IoT HMI solution for industrial applications. With an industrial-grade ABS plastic housing, it aims to provide dependable performance while maintaining affordability. It also incorporates practical improvements such as a downward cable exit, a refreshed appearance, and more models for option.

Application

CNC machine tools, industrial automation, medical equipment, and smart home appliances

- User programs up to 16K steps
- 3x100kHz pulse output
- Easy firmware upgrade
- Various extensions

Feature

- ◎ 1xRS485 expandable on the left
- ◎ 2x50kHz + 6x10kHz high-speed counters
- ◎ EtherNet expandable on the left
- ◎ Convenient USB setup and troubleshooting
- ◎ 1xRS232 and 1xRS485
- ◎ Multiple programming languages selectable

- HD-HB LCD
- 300+ protocols local parsing with MQTT
- VPN, routing and storage
- Remote data download

Feature

- ◎ High-definition, high-brightness LCD with wide viewing angles (up to 170°)
- ◎ Integrated edge computing with robust embedded software for localized data processing
- ◎ FLink IoT expansion module for remote configuration and real-time monitoring of field devices
- ◎ FlexCloud SaaS platform (B/S architecture) for centralized cloud-based management and analytics
- ◎ Fully compatible with VEICHI PLCs, AC and servo drives for visualization of unified intelligent control
- ◎ IoT extension for economical yet scalable HMI networking solutions
- ◎ Multi-wire resistive touchscreen with high sensitivity and anti-scratch durability 8. Built-in lightning/surge protection

HEAVY INDUSTRY DEDICATED PRODUCTS

To address the modernization needs of heavy industries, VEICHI provides intelligent solutions and sustainable technologies to enable unmanned material handling and green port development, continuously reducing energy consumption and operation cost in the mining and metallurgy fields, thereby improving overall efficiency across the sector.



CH310 Series Crane AC Drive

Brief

The CH310 series represents VEICHI Electric's latest generation of crane-specific drives, which delivers breakthrough innovations in functional performance while retaining the compact, book-style design for easy integration by optimizing its component layout, offering user-friendly operation and industry-specific engineering.

Application

Hoisting, translating and slewing control of the cranes

Feature

- High-performance standards with exceptional power density and quality construction
- Comprehensive low-voltage protection with quick-stop and anti-slip functions
- Trolley correction, sync lifting, precise positioning, grab control, anti-sway and tower control software functions
- Perfect coordination of dual master/slave hoisting mechanisms during heavy load operations.
- Dual-condition brake (frequency + torque) for smooth operation and zero hook slippage
- Smart load-speed matching algorithm for auto optimal running speed regulation



CH610 Integrated Crane AC Drive

Brief

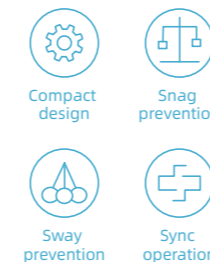
The CH610 series is an integrated three-in-one controller specifically designed for lifting applications by combining frequency conversion, control, and low-voltage electrical modules into a single compact unit. Leveraging robust functionality and proven reliability, we deliver comprehensive system solutions that combine high performance with operational safety and security.

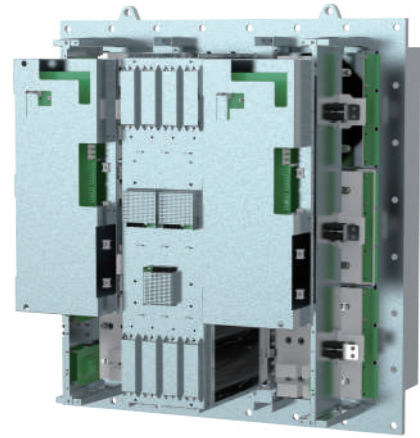
Application

For controlling of overhead cranes (including winches and hoists)

Feature

- Highly integration with onboard components including lifting weight limiter
- Compact footprint with lower wiring complexity
- IP54 rated for harsh environments (high temp/humidity/corrosion)
- Instant status code display for limit switch faults or abnormal operating conditions for rapid troubleshooting and reduced maintenance costs
- Brake monitoring with cycle counting for predictive protection and maintenance
- Creeping/jogging for flexible positioning
- Brake monitoring against excessive wear
- Common DC bus for better energy recovery (single resistor)





ACP30 Series Explosion-proof Core Unit

660V Two-level two-quadrant/four-quadrant: 45kW~630kW
 1140V Three-level two-quadrant/four-quadrant: 55kW~1000kW
 3300V Three-level two-quadrant/four-quadrant: 800kW~2500kW

Brief

The CH610 series is an integrated three-in-one controller specifically designed for lifting applications by combining frequency conversion, control, and low-voltage electrical modules into a single compact unit. Leveraging robust functionality and proven reliability, we deliver comprehensive system solutions that combine high performance with operational safety and security.

Application

For controlling of overhead cranes (including winches and hoists)

Feature

- Highly integration with onboard components including lifting weight limiter
- Compact footprint with lower wiring complexity
- IP54 rated for harsh environments (high temp/humidity/corrosion)
- Instant status code display for limit switch faults or abnormal operating conditions for rapid trouble shooting and reduced maintenance costs
- Brake monitoring with cycle counting for predictive protection and maintenance
- Creeping/jogging for flexible positioning
- Brake monitoring against excessive wear
- Common DC bus for better energy recovery (single resistor)



EV200 Series AC Drive

Brief

Low-voltage controllers play a pivotal role in enhancing industrial vehicle performance through optimized energy management and superior power conversion efficiency. By leveraging advanced control algorithms and precision current regulation, these systems can maximize battery performance and lifespan, reduce energy consumption and finally extend vehicle operating range significantly.

Application

High-speed electric motorcycle, electric forklift, golf cart, electric sanitation truck, aerial work truck etc.

Feature

- Instant throttle response with seamless acceleration/deceleration
- Automatic mode switching for continuous operation during even connection loss
- Anti-rollback, controlled slope descent and slip prevention
- Comprehensive system protection (P6x standard) against over/under-voltage, pedal overrange, overheat, reverse polarity, phase loss, overcurrent, clogged rotation etc.
- Regenerative braking for increased vehicle range



S200-G1 Intelligent Elevator Control System

Brief

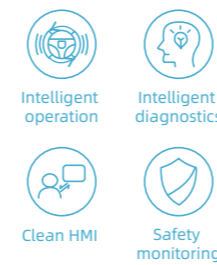
The S200-G1 intelligent elevator 3-in-1 drive provides comprehensive functionality for modern vertical transportation. It features multiple operational modes, including single elevator control, intelligent parallel control, dedicated freight mode, precision door control, and intelligent scheduling for optimized floor-door linkage. It also includes an automatic power cut for enhanced safety. Users can summon the elevator via the first floor box or call-out box to stop at specific floors.

Application

Smart automatic elevator, smart shaft ladder etc.

Feature

- User-friendly operation for precise call positioning
- Stainless steel enclosure with IPX3 rating
- Express mode at 85% load capacity, locking out further inputs while traveling directly to target level
- Three operational modes: manual maintenance, freight, and automatic mode
- Real-time voice alerts for emergency stops, faults, and system anomalies
- Self-diagnosis for quick troubleshooting



S200 Series Integrated Construction Hoist AC Drive

Brief

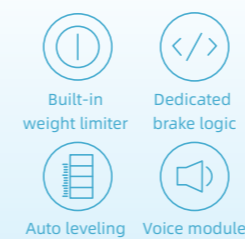
This is an all-in-one electric control solution specifically engineered for construction hoists, incorporating an AC drive, a brake module, a PLC, a weight limiter and A brake power supply, which is capable of offering a high-performance and complete solutions for electrical control.

Application

Construction hoist

Feature

- Zero vibration and slippage during frequent jogging operation
- Real-time display of floor, direction, speed, and load and self-diagnostic fault detection on the HMI
- Compact architecture with space reduction and flexible wiring configurations
- Torque monitoring for quick emergency stop activation
- Dual independent speed control with separate upper/lower deceleration limits and rapid high-speed engagement
- Soft limit protection by real-time position feedback from encoder 7. Secondary protection against overtravel incidents





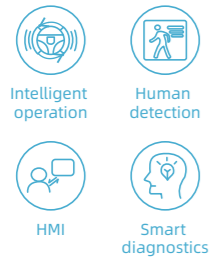
S100 Series Integrated Cargo/Construction Hoist AC Drive

Brief

Our advanced control solution combines an AC drive with an intuitive HMI interface to deliver superior performance for modern material handling operations. The system incorporates cutting-edge features including: unmanned operation, human detection, smart diagnostics, remote control, wireless video transmission and auto-leveling, providing a complete, reliable electrical control solution that enhances both safety and efficiency in this section.

Application

Material hoists, cargo hoists



Feature

- ◎ 360° surround monitoring capture and transmission to the operator's screen for obstacle and personnel detection
- ◎ Human detection for unauthorized personnel hoist and continuous voice alerts till area clearance
- ◎ Dual control from the base control box or portable remote case for flexible elevator management
- ◎ Smart HMI interface with intuitive navigation and status display
- ◎ Real-time voice alerts for emergency stops, faults, and system anomalies
- ◎ Self-diagnosis for quick troubleshooting



QT Series Integrated Tower Crane AC Drive

Brief

Designed as a high-performance, modular control system for modern tower cranes, this mid-to-high-end model combines intelligent functionality with lightweight engineering to meet sophisticated electrification requirements. Its integrated system architecture encompasses three core components: unified frequency conversion control for hoisting, slewing and luffing mechanisms, centralized logic control and the black box monitoring (optional), to deliver complete and efficient crane operation management.

Application

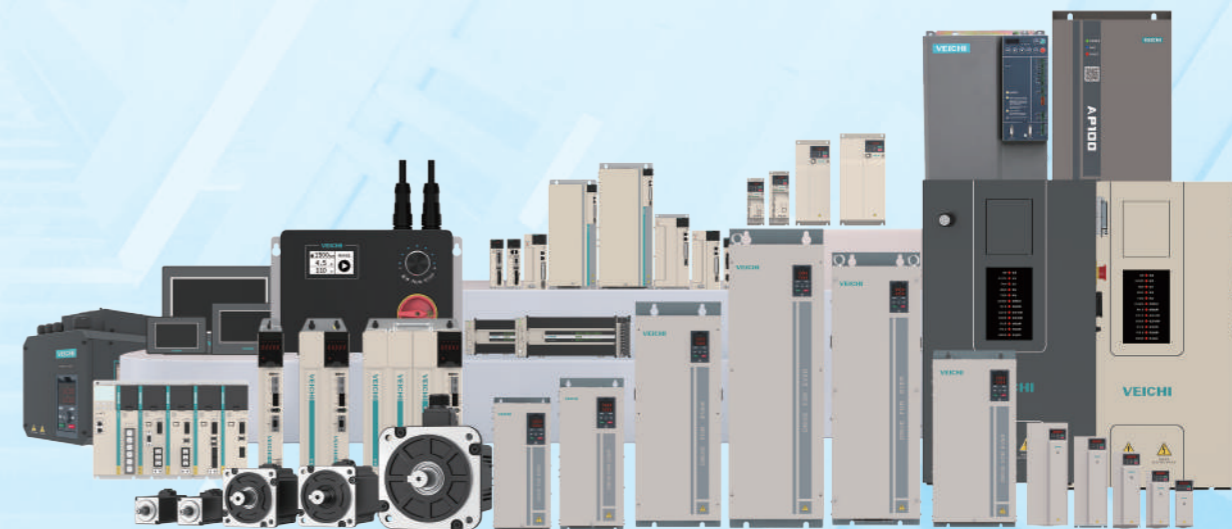
Tower crane

Feature

- ◎ Dedicated debug mode bypassing operational limits for installation while enforcing safe low-speed movement
- ◎ Isolated operation of hoisting, slewing, and luffing mechanisms during complex maneuvers
- ◎ Rapid logic operations and data processing for real-time control on the three mechanisms
- ◎ Redundant dual-signal verification and dual-brake design for fail-safe brake circuit
- ◎ Real-time tracking, monitoring and troubleshooting
- ◎ Dedicated brake logic control by release frequency, current, and timing and engage time setting

LIGHT INDUSTRY DEDICATED PRODUCTS

Pioneering the future of light industry, we deliver integrated solutions combining digital textile automation, precision engineering, energy optimization, and flexible manufacturing technologies. This comprehensive approach empowers manufacturers to achieve unprecedented levels of operational efficiency, product quality, and environmental sustainability.



SD500 Series Machine Tool Spindle Servo Drive

Brief

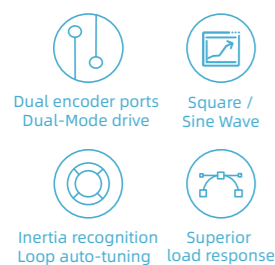
This solution finds extensive application in machining centers, CNC machine tools, milling machines, tilting lathes, and specialized movements including flying and chasing shears, establishing it as the premier choice for diverse machine tool power transmission applications.

Application

CNC machine tools, electronics manufacturing equipments, textile machines, printing and packaging machines, die-cutting machines, woodworking machines etc.

Feature

- ◎ Feeding axis servo system supporting multiple bus protocols, and 23-bit servo motor delivering 3kHz response
- ◎ Power head servo system offering bus and pulse control with 6000 rpm speed for superior milling finish
- ◎ Turret dedicated servo system with bus-controlled torque regulation and I/O-based backlash compensation
- ◎ Turret special servo system for proximity switch signals to release or clamp the solenoid valves
- ◎ Spindle servo system standard with dual PG boards for precise speed/position control at ± 1 pulse accuracy
- ◎ Auto-tuning function for motor, encoder, system inertia and ASR parameters



SD700 Series Machine Tool Servo Drive

Brief

This servo drive is designed to offer flexible connectivity options, including support for industry-standard protocols like EtherCAT and MECHATROLINK-III, which help simplify wiring configurations and system integration. By incorporating an advanced current loop algorithm, we aim to achieve responsive command processing with improved motion smoothness and reduced vibration.

Application

Electronic manufacturing equipment, CNC machine tools, packaging and printing machines, textile machines, plastic and glass production equipment, testing equipment, etc.

Feature

- ◎ Multi-protocol communication
- ◎ 850W/1.3kW motors with 20-bit absolute encoders and waterproof connectors on the feed axis
- ◎ Real-time mapping for parameter adjustment
- ◎ Advanced tool magazine servo system with semi-circular positioning algorithms, multi-turn overflow processing and backlash compensation
- ◎ Dedicated turret test functions
- ◎ Fine grain patterns and surface finish





- Multi-Bus mastery
- Ultra-precise motion control
- Multi-intelligence platform
- Open architecture HMI

V800TA Series Lathe Controller

Brief

Upgrade your manufacturing with VEICHI Lathe Controller Series. It offers precision, speed, and seamless connectivity with EtherCAT and other protocols for ultra-responsive machining. The high-performance processor supports dual-channel operation, handling complex tasks like turn-mill machining and robotic synchronization. Its rugged, fanless design resists oil, dust, and vibrations, ensuring maximum uptime. It also connects to Industry 4.0, enabling predictive maintenance, remote monitoring, and data-driven optimization.

Feature

- ◎ EtherCAT ecosystem for 50+ intelligent sensing modules with plug-and-play simplicity
- ◎ High-speed bus I/O system
- ◎ 6-path, 32-axis control for complex multi-operation machining
- ◎ Precise differential compensation for high-level turning and milling
- ◎ Multi-intelligence functions
- ◎ Dual-system redundancy
- ◎ Open HMI platform with easy wizard

Application

Horizontal lathe, vertical lathe, dual-turret lathe, turn-mill center, and swiss-type turning



- Vibration and corrosion withstanding
- Uncompromising reliability
- Visualized weft detection
- Direct drive excellence

VC600C Series Integrated Water-Jet Loom AC Drive

Brief

Born from VEICHI Electric's 25+ years of engineering mastery, the VC600C Series shatters conventional limitations in textile machinery control. Our patented integrated architecture represents not just an improvement-but a complete paradigm shift. It boasts corrosion-resistant housing, unified control platform and unprecedented longevity that translate to outstanding energy consumption and easy using.

Feature

- ◎ Effortless deployment, robust protection
- ◎ High-resolution HMI with intuitive status monitoring
- ◎ Fanless architecture against contamination risks
- ◎ Internal/external plug-in connections for faster module extension, setup and debugging
- ◎ Proprietary visual weft detection sensitivity adjustment
- ◎ Direct drive technology with excellent energy reduction and torque accuracy
- ◎ 4D spray control and double beam E-feeding, and electronic dobby control
- ◎ Fanless design, back-mounted radiator, miniaturized footprint and high-density integration

Application

Water-jet loom



- High-performance motion control technology
- Powerful secondary development
- Comprehensive auxiliary functions
- User-friendly operation

V800MB Series Milling Controller

Brief

The VEICHI Milling Controller Series delivers powerful secondary development capabilities, enabling seamless customization to meet diverse industrial demands. With robust digital communication support, including EtherCAT, Mill, and more, the VEICHI series ensures seamless integration into modern smart factories. With high-speed processing cores, it ensures ultra-responsive performance while supporting multi-channel operations and other advanced functionalities. The hardware itself adopts fanless design to strengthen the ability of oil and dust resistance. Stable quality, superior performance-empower your machining processes with cutting-edge control technology.

Feature

- ◎ Ultra-precise cutting technology for sophisticated patterns
- ◎ Real-time PLC control
- ◎ Open architecture with PLC, Macro programming and QUI-Designer
- ◎ File storage protection 5. Online Help function available 6. G/M code for query function

Application

Machining center, tapping center and CNC engraver



- Innovative fanless design
- Standard with direct drive system
- Unified system architecture
- Advanced digital weft detection

VC600E-Z(V4) Integrated Water-Jet AC Drive

Brief

Developed by VEICHI Electric, the VC600E Series delivers an optimized control solution specifically designed for streamlined configurations. This highly integrated system combines space-saving compactness with effortless maintenance, reducing both footprint and downtime, providing textile manufacturers with a smart and economical solution.

Feature

- ◎ Advanced sealed design against water/oil ingress, reducing failures and doubling component lifespan
- ◎ 20% higher energy savings vs traditional asynchronous motors
- ◎ Variable speed control for complex fabric production
- ◎ Tri-system integration (main control + frequency control + pattern control) with minimized wiring
- ◎ Next-gen digital weft sensors with individual nozzle calibration
- ◎ 90% plug-and-play wiring connections
- ◎ Real-time loom monitoring and instant production analytics dashboard

Application

Water-jet loom



- Unified system architecture
- Advanced digital weft detection
- Compact structure
- Digital Internet of Things

VC600E-R(V2) Integrated Water-jet AC Drive

Brief

The VC600E Series by VEICHI Electric brings you powerful weaving control made simple. Designed specifically for smaller operations and entry-level users, this compact system delivers reliable performance without complicated setup. Its space-saving design fits easily into any workshop, while the simplified maintenance means you can keep it running smoothly without calling in specialists. Everything about this system is built for straightforward operation – from the easy-to-understand controls to the plug-and-play wiring that takes the guesswork out of installation.

Application

Water-jet loom

Feature

- ◎ Innovative three-in-one design for less harness connections and higher system stability
- ◎ Latest digital weft detection technology with individual sensitivity settings for each nozzle
- ◎ 30% smaller than traditional electronic control systems
- ◎ Real-time loom monitoring and instant production analytics dashboard
- ◎ 90% plug-and-play wiring connections



- Built-in hyperboost algorithm
- Slow jogging
- High productivity
- Higher efficiency

FZ310 Boost Start AC Drive

Brief

Leveraging the high-performance AC310 series platform, the FZ310 boost start AC drive integrates advanced vector control algorithms for superior motor control.

With significantly enhanced protection levels to withstand harsh conditions, it is widely adopted for retrofitting various looms, including water jet looms and air jet looms.

Application

Water-jet loom, air-jet loom

Feature

- ◎ Built-in boost start algorithm to raise output voltage and torque instantaneously
- ◎ Slow start function for smooth and safe operation
- ◎ Variable frequency drive with infinite speed adjustment for enhanced productivity
- ◎ Work with direct-drive motors to deliver over 20% higher efficiency



- Multiple motor compatibility
- Stable constant voltage
- Energy saving
- Easy debugging and wiring

AP150 Integrated Air Compressor AC Drive

Brief

VEICHI AP100 Series All-in-One AC Drive—A compact, high-performance drive solution designed for air compressors. Its robust sheet metal enclosure and wall-mounted design enable quick installation and high system integration, supporting single or dual-drive configurations. With dedicated software and an intuitive HMI, it allows seamless remote monitoring and IoT-enabled control.

Application

Packaging machines, electronics production, automobile manufacturing, printing machines, metal processing etc.

Feature

- ◎ High Integration—Compact two-in-one design of power output and oil cooler control
- ◎ Easy Installation—Wall-mounted setup with plug-and-play control terminals, including foolproof anti-misplug design for quick deployment
- ◎ Precision Control—Compatible with multiple motor types and control modes for satisfactory voltage regulation
- ◎ Smart Connectivity—Dedicated software for seamless HMI and IoT integration and remote monitoring and management
- ◎ Advanced Protection—Built-in temperature and pressure sensors for motor overheat



- Three-in-one design
- IP52
- Universal compressor drive
- Adaptive fuzzy-PI hybrid control algorithm

AP100 Integrated Air Compressor AC Drive

Brief

The AP100 series all-in-one AC drive is a compact, high-performance drive solution specifically designed for air compressors. Featuring a robust sheet metal enclosure and wall-mounted design, it ensures quick installation and commissioning, and a high system integration, it supports both single and dual drive configurations. The dedicated software and an intuitive HMI interface further allows for seamless remote monitoring and control with the IoT-enabled communication.

Application

Air supply from screw compressor

Feature

- ◎ All-in-one design of host, oil cooler, and fan
- ◎ Built-in 220V AC power supply, transformer with anti-overheat fuse and protective circuit
- ◎ Support for both synchronous and asynchronous motors with open/closed loop modes
- ◎ Outstanding energy savings with rapid and stable pressure control and dual variable-frequency fans
- ◎ Dedicated software for seamless HMI and IoT integration and remote monitoring and management
- ◎ Built-in sensors against overheat and motor demagnetization
- ◎ Integration of separate oil pump control, radiator fan control for the motor and pressure sampling control



High-speed motor control



HF output



Future-proof expandability



Application-specific SiC power semiconductors

High-speed Centrifugal Turbine AC Drive

Brief

High-Speed Turbomachinery Control Solutions – Our specialized electronic control systems for blowers, compressors, and vacuum pumps feature a multi-layer architecture: PLC-integrated pneumatic control for precision and protection, paired with high-speed AC320 (air-cooled) or LC320 (water-cooled) drives. Customizable with high protection, cabinet formation, and low harmonic options to boost performance, reliability, and sustainability—supporting dual-carbon goals.

Application

Aeration and oxygenation machines, air compressor, HVACR, vacuum dryer, air separation machines

Feature

- IGBT-based output with 0Hz~2000Hz frequency
- High carrier frequencies up to 16kHz
- Work with magnetic, air, ceramic, and oil-film bearings to reduce wears
- Extended motor life, sine-wave filtering drive technology, and synchronous modulation for harmonic suppression
- Advanced energy feedforward technology for stable bus voltage, and ultra-stable magnetic levitation rotor for stable operation
- High-strength coated enclosure



Built-in brake unit



Exceptional servo control



Reinforced overload capacity



Reinforced protection capacity

SD650 Series Electrohydraulic Servo Drive

Brief

Our electro-hydraulic servo system delivers exceptional dynamic performance, automatically and precisely tracking input variations with amplified output power. By combining the best features of electrical and hydraulic technologies, the system achieves: unmatched control accuracy, ultra-fast response, high-power output capability, flexible signal processing, comprehensive parameter feedback and wide industry applicability.

Application

Machine tools, metallurgy machines, engineering machines, agricultural machines, automobile equipment, textile machines, etc.

Feature

- Dual communication interfaces of built-in CANopen and RS485
- Air-cooling or liquid-cooling for your choice
- Vector control, field weakening and auto-tuning PID
- Direct 0V~10V/4mA~20mA analog input
- Multi-layer safeguards including phase-loss detection and short circuit protection
- Commands given from analog input, CAN, RS485 or the drive



High-frequency, high-capacity (HFHC)



Compact design



Wide voltage input range



Power failure ride-through

LC320 Series Water-cooled High-frequency AC Drive

Power range Three-phase 380V, 90kW~800kW Three-phase 660V, 0.85kW~800kW

Brief

The LC320 series water-cooled drive is a high-performance drive solution specifically designed for high-speed industrial equipment such as centrifugal compressors and vacuum pumps. Engineered with an advanced water-cooling system, this specialized product delivers exceptional thermal management and reliable operation for demanding high-speed applications. Its superior high-frequency motor control capability ensures precise speed regulation and optimal performance, making it the ideal choice for industries requiring efficient, stable, and energy-saving motor control solutions.

Application

Aeration and oxygenation machines, air compressor, HVACR, vacuum dryer, air separation machines

Feature

- No derating required at 8kHz carrier frequency
- 40~70% smaller volume than standard air-cooled units
- Universal voltage compatibility: 310V~480VAC
- Active harmonic suppression for longer motor lifespan
- Built-in power failure ride-through
- IP54 models for option



Direct torque control



Wide voltage input range



Curve/inflection setting



Separate error and alarm prompts

EHS300 Series Electrohydraulic Servo Drive

Brief

The EHS300 series electro-hydraulic servo drive represents VEICHI Electric's latest breakthrough in high-performance motion control technology. It integrates an advanced flux linkage observer model with vector decoupling control, enabling ultra-precise and dynamic operation of permanent magnet synchronous motors (PMSMs).

Application

Plastic molding machines, pipe extrusion machines, shoe making machines, resource recycling and baling machines, rubber machines, die-casting machines, hydraulic presses, bending machines, etc.

Feature

- Multi-protocol support: Modbus-RTU/TCP, EtherCAT, PROFINET, PROFIBUS-DP, CANopen
- 7.5kW~560kW single-drive coverage with modular accessories
- User-friendly and quick commissioning and online firmware upgrade
- 30%+ performance boost in weak magnetic control
- Conformal coating overall and UV on PCB
- Thermal simulation design for optimized hardware layout



- Unified architecture
- Easy installation
- Debugging-free
- Dual-air duct

EHS100 Series Integrated Electro-hydraulic Servo Drive

Brief

The EHS300 series integrates control, drive and braking functions into one unit, achieving 5x faster installation while maintaining precision. Its simplified design reduces wiring and saves space, offering a reliable servo solution for industrial automation. By minimizing components and connections, it delivers easier implementation without sacrificing performance - an efficient upgrade from conventional systems.

Feature

- Control cabinet-free, saving 60% space versus traditional systems
- Enhanced internal alignment for EMC compatibility and lower interference
- Integrated brake function to prevent faults and damage from improper device selection
- Intelligent temperature control with a 70,000-hour, IP56-protected long-life fan
- Low temperature rise and fast response with IPM embedded magnet design
- Overload and overspeed with industry-leading weak magnetic algorithm and 2x torque capacity
- Hot-plugging keypad installation to RJ45 (extensive for long distance and independent keypad bracket available)

Application

Injection molding machines, molding machines, die-casting machines, bottle blowing machines, hydraulic presses, bending machines, etc.



- Tissue packaging
- Food packaging
- Corrugated cardboard
- Printing & die-cutting

Solutions for Printing and Packaging

Brief

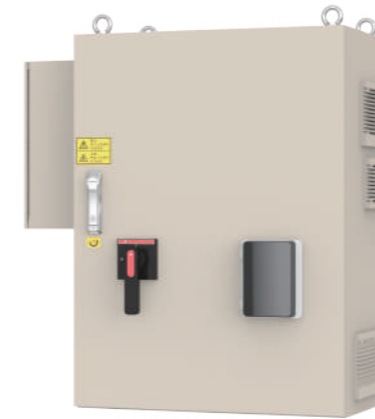
VEICHI has been a dedicated player in the printing and packaging industry for years, with deep expertise across the food, healthcare, and pharmaceutical sectors. Our extensive research in electronic cams, synchronization control, and motion stacking ensures precision and efficiency in industrial processes. we focus on advanced technologies including color-code tracking, tension control, and winding/unwinding systems, or complete sets of high-performance system solutions tailored to their needs.

Feature

- A full set of system solutions in various segments of the packaging industry
- A full set of system solutions in various segments of the printing industry
- A full range of high-performance drive and control products with mature control systems

Application

In the corrugated, printing, and die-cutting industries



- Refrigerant cooling
- On-board installation
- High integration
- High reliability

IC320 Series Integrated HVAC AC Drive

Three-phase 380V~480V
High carrier frequency: 132kW~400kW Low carrier frequency: 132kW~800kW

Brief

The IC320 series combines VEICHI's reliable drive technology with advanced refrigerant cooling for compact, high-performance HVAC drives. Compatible with both synchronous and asynchronous motors, it's ideal for commercial and industrial applications - from magnetic bearing compressors to centrifugal chillers, ensuring stable operation while meeting strict installation requirements, providing a versatile solution for modern air-conditioning and heat pump systems.

Feature

- On-board installation requirements with flat design
- Drive, circuit breaker, and reactor in highly compact design
- Reduced product size with advanced refrigerant cooling technology
- High carrier applications and high-speed motor compatibility
- Rich expansion functions with multi-channel temperature detection and diverse communication protocols

Application

Central air-conditioning or industrial heat pump units such as magnetic levitation, air levitation, screw machines, ordinary centrifugal machines, etc.



- Flat body
- Flexible combination
- High integration
- High reliability

AC310S Series HVAC AC Drive

Three-phase 380V~480V
132kW~355kW

Brief

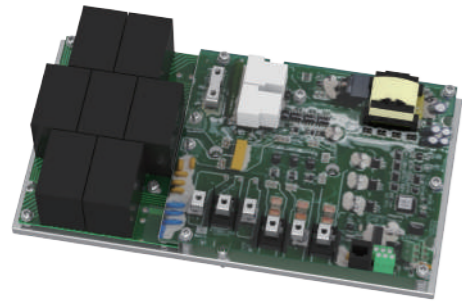
The AC310S series incorporates VEICHI's advanced variable frequency drive technology, air-cooled cooling technology, and an optimized design layout to meet the on-board installation requirements of central air conditioning systems. Additionally, the series supports both synchronous and asynchronous motor drive technologies, providing flexible and efficient solutions for diverse applications.

Feature

- On-board installation with flat design
- Variable frequency unit for flexible cabinet needs
- Wide voltage coverage 380V~480V
- Rich extensions and steadfast protection logics

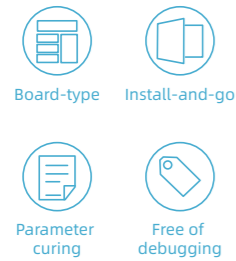
Application

Central air-conditioning such as screw machines, ordinary centrifugal machines, etc.



AS20 Series HVAC AC Drive Board

Three-phase 380V~480V
11kW~15kW



Brief

The AS20 series board utilizes VEICHI's advanced variable frequency drive technology. Its compact dimensions is easy for installation. Multiple communication options and both refrigerant-cooled and air-cooled versions make it ideally suited for light commercial air conditioning, battery thermal management systems, and small heat pump units.

Application

Battery thermal management, cabin air conditioner, small-volume commercial air conditioner, or small heat pumps, etc.

Feature

- Instant and easy installation with lower cost
- Board product for small-scale commercial and battery thermal management air conditioning situations
- Optional air-cooled or refrigerant cooling
- RS485 and CANopen for flexible integration
- Macro definition and parameter curing functions for plug-and-play operation



AC310 Series Tension Control AC Drive

Single-phase 220V AC, 50Hz/60Hz 0.75kW~15kW
Three-phase 380V AC, 50Hz/60Hz 0.75kW~1120kW
Three-phase 660V AC, 50Hz/60Hz 22kW~1120kW



Brief

Our specialized drive for tension control maintains constant tension by precisely regulating the output torque and automatically calculating the roll diameter. This innovative solution eliminates the need for a tension sensor and external feedback of current position or tension. For most applications, no speed feedback encoder is needed, yet it still ensures precise tension control. This guarantees uniform material thickness and texture, delivering dependable performance for your processing requirements.

Application

Industrial production requiring constant tension in strips or wires.

Feature

- High-performance vector control for rapid dynamic response and precise torque output
- Constant tension via automatic torque adjustment based on real-time line speed feedback
- Dynamic and static friction compensation for optimized tension control and taper correction
- Wire break detection, pre-drive, and brake signal output for reliable operation
- Smooth startups and stable tension performance across all speed ranges
- Advanced algorithms for high torque precision 7. Real-time speed monitoring for accurate calculation of winding diameter with robust anti-interference capabilities



AC310-XL Series Wire Drawing AC Drive

Load: 300kg, 600kg, 800kg, 1500kg



Brief

The AC310-XL Inverter for the cable industry is engineered on a high-performance vector technology platform, incorporating advanced fixed magnetic field vector control for seamless compatibility with both asynchronous and synchronous motors. Optimized for performance and reliability, it features a rationally compact layout with a slim, book-style design, maximizing space efficiency without compromising functionality. Its user-centric engineering incorporates deep industry-specific expertise, while versatile expansion interfaces ensure seamless integration across diverse cable production applications.

Application

Water tank wire drawing machines, direct feed wire drawing machines, pulley wire drawing machines, pendulum-free wire drawing machines, power payoff systems, and tension frame winding

Feature

- Synchronous and asynchronous motor compatibility in a single drive unit
- One-touch macro preset for plug-and-play operation across cable equipment
- Modbus standard and CANopen/Profinet/Profibus-DP expansion optional
- 150% torque at 0.5Hz (open-loop) and 200% at 0Hz (closed-loop)
- <20ms torque response with $\pm 0.2\%$ (PM)/ $\pm 0.5\%$ (AM) speed accuracy
- Optimized PID algorithms for instant speed regulation in tension/winding applications

HIGH-END EQUIPMENT DEDICATED PRODUCTS

VEICHI specializes in developing cutting-edge drive converter systems and full-frequency control solutions that power marine, offshore, and petrochemical applications. By integrating intelligent energy optimization, our technologies enable significant emission reductions while boosting efficiency. And we are committed to empowering the manufacturers with advanced alternatives to driving sustainable industrial progress through continuous innovation.



AC800 Series Marine Engineering Multidrive

Brief

VEICHI, with decades of expertise in the marine and offshore sector, delivers cutting-edge solutions centered around the AC800 series. Our comprehensive portfolio includes electric propulsion systems, shaft generators, hybrid power solutions, DC grids, and shore power equipment, driving the industry toward a low-carbon, green energy future.

Application

Electric propulsion, shaft generator, DC grid, shore power equipment, deck machines, offshore cranes, engine room energy-saving equipment, etc.

Feature

- ◎ Robust marine-grade design against humidity, salt spray, mold, vibration, and shock
- ◎ Built-in macros for electric propulsion systems, shaft generation control, and platform lifting
- ◎ Enhanced ship grid fault tolerance and integrated power of energy storage systems, fuel cell hybrid configurations and dynamic shaft generation
- ◎ Available 12-pulse & AFE (Active Front End) rectification



AC electric propulsion solution



Shaft generation solution



Hybrid system integration



All-electric marine system solution



AC310-Pro Series Marine AC Drive

Brief

VEICHI presents the single-drive product AC310-PRO, an advanced solution for marine applications including fans, pumps, compressors, and deck machinery. This innovative product delivers superior drive efficiency while featuring adaptive thermal management capabilities to meet the rigorous demands of marine operating environments. Aligned with China's dual-carbon strategy, VEICHI further complement this offering with high-protection cabinets, low-harmonic designs, and compact customized solutions—empowering marine systems to achieve optimal energy savings and emission reductions.

Application

Bow thruster, deck equipment, mooring winch, energy-saving fan in engine room, water pump, compressor, etc.

Feature

- ◎ High-performance vector drive with industry-leading power density
- ◎ Patented book-type structure with improved heat dissipation
- ◎ Nacelle-specific energy optimization for ventilation fans and compressors
- ◎ 150% output torque under SVC



Redefined performance



Eco-conscious engineering



Easy operation



Compact body





NEW ENERGY DEDICATED PRODUCTS

Specializing in renewable energy applications spanning solar, energy storage, and hydrogen technologies, we deliver comprehensive solutions including photovoltaic water pumping systems, solar-plus-storage systems, base station energy storage systems, and flexible electrolytic hydrogen production - all designed to accelerate the global transition to sustainable energy.



Solar Water Pump Inverter



-  Intelligent IoT connectivity
-  Advanced MPPT with comprehensive protection
-  Multiple motor compatibility
-  Unmatched performance Engineering excellence

Brief

Designed to deliver clean water solutions in remote areas with limited grid access, this advanced system efficiently converts DC power from solar arrays into AC power to operate various water pumps, enabling reliable and sustainable water supply without dependence on traditional electrical infrastructure.





Feature

- ◎ Intelligent IoT integration with smart irrigation control
- ◎ Wireless control via dedicated mobile app
- ◎ High power density and wide applicability across diverse irrigation systems
- ◎ Vertical airflow design for optimal thermal management and DC fan cooling
- ◎ AC 110V/220V/400V inputs for global adaptability
- ◎ Compatible with PMSM, AM, BLDC motors and single-phase motors
- ◎ MPPT algorithm for maximum energy efficiency and multi-layer protection

Application

Agricultural irrigation, residential water, landscape fountain, swimming pool water supply, desert management etc.



-  Universal pump motor drive
-  Smart multi-pump coordination
-  Multi-layer motor protection
-  Abundant water supply functions

GS20 Series Integrated Water Pump AC Drive

Brief

The GS20 integrated pump drive system incorporates VEICHI's proprietary multi-pump control algorithm to deliver superior energy efficiency compared to conventional constant-speed pump systems. This advanced solution not only significantly lowers operational costs but also substantially decreases carbon emissions, supporting both economic and environmental sustainability goals.

Feature

- ◎ Multi-interface expansion of RS485, SPI, GPRS, and PG
- ◎ Reliable master-slave communication via RS485
- ◎ Smart safeguards of water shortage auto-shutdown, high/low voltage cutoff, leakage protection, anti-freeze & corrosion protection and sensor failure detection
- ◎ Full-spectrum pump motor like asynchronous motors, permanent magnet synchronous motors and synchronous reluctance motors
- ◎ Multi-protocol support
- ◎ IoT-enabled smart management

Application

Secondary water supply, sewage treatment, etc.



VHP800 Hydrogen Production Power Module and Cabinet

VHP800-E60-T3-028/0145-L IGBT Power Cabinet VHP800-C60-T3-004/0145-L IGBT Power Module
 VHP800-E71-T3-015/0080-L IGBT Power Cabinet VHP800-D71-T3-010/0060-L IGBT Power Module
 VHP800-E81-T3-144/0340-L IGBT Power Cabinet

Brief

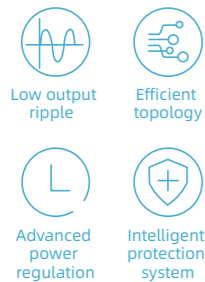
The VHP800 series hydrogen power supply system features independent voltage, current, and power regulation capabilities, delivering exceptional precision and rapid dynamic response to multiple critical sectors in the clean energy transition, supporting global decarbonization efforts through reliable clean energy solutions.

Application

Metallurgical process, hydrogen refueling stations, new energy off-grid hydrogen production, ammonia synthesis, offshore hydrogen production, and green ammonia and green methanol energy.

Feature

- Wide adjustable voltage/current range
- High-speed processing
- Anti-disturbance algorithm
- Industry-leading power density with minimized cabinet
- Excellent adaptability to grid fluctuations from new energy power generation and harsh environment
- Optimized energy topology for more stable electrolyzer operation



Silicon Carbide Drive

Brief

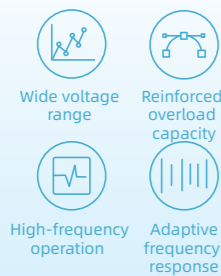
Developed through VEICHI's proprietary technology, this silicon carbide (SiC) drive delivers exceptional performance with an ultra-wide input voltage range, high-frequency switching capability, and industry-leading efficiency. Engineered for demanding applications, it serves as a critical component in: electric vehicle propulsion systems, hydrogen fuel cell power modules and high-speed air compression systems.

Application

Electric vehicle propulsion systems, hydrogen fuel cell power modules and high-speed air compression systems

Feature

- 450V~850V DC input for stable operation under fluctuating power sources
- 200% rated current for 20 seconds under heavy duty
- 50kHz switching frequency enabling size and weight reduction
- 0Hz~5000Hz programmable output
- Industry-Leading efficiency up to 98%
- Dual CAN2.0B ports for synchronized device coordination and data sharing



VHS-(5-6) K-L01-K Hybrid Inverter

Brief

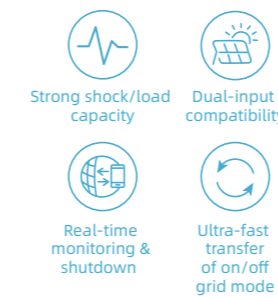
The VHS-(5-6)K-L01-K hybrid inverter boasts an IP65 waterproof rating for outdoor durability. With six programmable charge/discharge time slots, it supports parallel connection of up to eight units for single or three-phase setups. It enables energy management features like peak shaving, emergency backup, grid power factor adjustment, and 10ms fast switching. This versatile system offers a smart, reliable home energy solution for diverse needs.

Application

Home, small stores, small factories

Feature

- 2xIndependent MTTP: 23A max per channel
- 150% PV oversizing capability and simultaneous full AC power output and battery charging
- 200% peak power capacity and non-resistive load starting
- Rapid battery charging at 120A~140A
- Remote management via WIFI/LAN



VHT-(30-50)K-100-H High-voltage Three-phase Energy Storage Inverter

Brief

Designed for commercial and residential applications, the VHT-(30-50)K-100-H delivers reliable power solutions for large villas, small supermarkets, and light industrial facilities.

Application

Large villas, small supermarkets, small factories.

This advanced inverter provides seamless 20ms off-grid switching and supports parallel operation of up to 4 units (200kW total off-grid output), ensuring uninterrupted power supply during outages. With industry-leading 98.8% peak conversion efficiency, the system maximizes energy utilization while minimizing operational costs.

Feature

- 1.50kW power output, battery voltage up to 750V, line voltage 400V of three-phase power grid
- 17kW individual output per phase, 55kW max. up to 75kW for instantaneous peak power output
- 150% PV oversizing capability and simultaneous full AC power output and battery charging
- 100A charging current (1C rate for 100Ah batteries)
- Remote management via WIFI/LAN



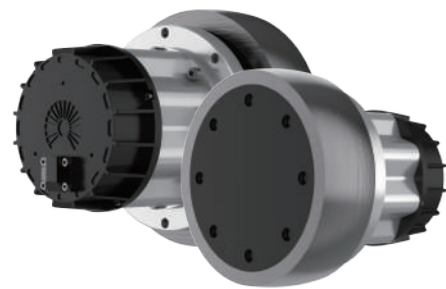
ROBOTICS DEDICATED PRODUCTS

VEICHI is committed to transforming the robotics landscape by leveraging our comprehensive technology ecosystem. Our vertically integrated portfolio, which ranges from fundamental components to complete robotic solutions, is designed to meet the full spectrum of automation needs across humanoid, collaborative, mobile, and industrial robot applications.



RB100 Series Integrated Servo Wheel

[Load: 300kg, 600kg, 800kg, 1500kg]



Brief

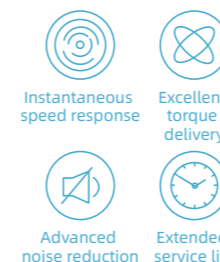
The RB100 series integrated servo wheel combines a drive system, encoder, frameless motor, reducer, and rubber-coated wheel into one unit. This integration, along with our independently developed core technology, ensures top-tier performance and reliability. Available in multiple specifications, the RB100 series offers easy installation, simple wiring, and stable operation, making it ideal for AGV/AMR, intelligent warehousing, and robotics.

Feature

- ◎ All-in-one technology integration for 50%+ total cost reduction
- ◎ 30% smaller footprint vs conventional distribution
- ◎ Hybrid steel/aluminum frame with 5% higher load capacity than industry standards
- ◎ 2-4 wheel specifications compatible

Application

Mobile robots, specialty robots, composite robots, sorting robots, humanoid robots, etc.



ECH DC Brushless Coreless Motor

[Flange: 6mm~40mm(standard) and more for option]

Brief

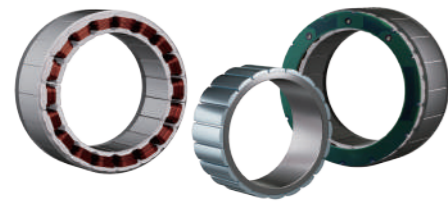
Our system harmoniously integrates core technologies such as motion control, high-performance servo drives, and high-precision reducers to develop an advanced multi-specification DC brushless hollow-cup motor system. This integration of the drive, reducer, encoder, and motor optimizes the overall functionality and performance of robotic applications.

Feature

- ◎ Ultra-high efficiency and low consumption
- ◎ Lightning-fast response and low inertia rotor
- ◎ Maintenance-free true brushless design
- ◎ Superior torque performance and electromagnetic solution
- ◎ All-in-one package including mini drive, encoder, motor and reducer
- ◎ High-speed/torque and low-noise premium operational characteristics

Application

Dexterous hands, medical devices, aerospace devices, motorized instruments, etc.



- Compact design
- High power density
- Ultra-low noise
- Superior expansion capacity

FT1 Series Frameless Motor

[Rated Power: 30W~1500W, inner and outer diameter for option]

Brief

Our cutting-edge electromagnetic design achieves maximum torque density in an ultra-compact footprint, delivering industry-leading performance in frameless direct drive applications. And the optimized motor architecture combines high-efficiency magnetic circuits with precision winding technology to ensure reliable, continuous operation even in the most demanding environments.

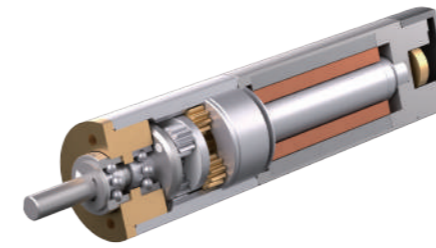
Moreover, there are more customizable solutions for precision motion systems requiring compact size, high dynamics, and exceptional reliability.

Feature

- Optimized permanent magnet design with high demagnetization resistance
- 10-pole optimized rotor
- Customizable windings and multi-interface
- 3x overload
- Optional integrated thermistor
- UL-recognized safety features

Application

Humanoid robots, collaborative robots, medical robots, articulated modules, etc.



- High-speed/torque performance
- Ultra-low noise/backlash
- Low temp rise
- Extended service life

PG Series Gearbox

[Deceleration ratio: 4~4096 and more for option]

Brief

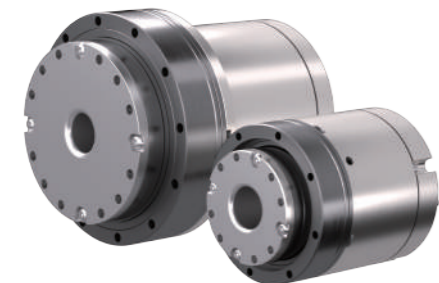
Featuring an innovative turnover wheel system design, our PG series gearboxes deliver exceptional power density in an ultra-compact form factor, specifically engineered to address tight installation space challenges. The modular architecture and scalable staging options enable fully customized drive solutions across multiple industries.

Feature

- Advanced synthetic lubricant and high-strength gear materials for high-speed, high-torque and high-power operation
- Optimized gear geometry for stable gear box performance
- Low-friction design with minimized contact area to reduce heat and boost efficiency

Application

Dexterous hands, medical devices, aerospace devices, motorized instruments, etc.



- Compact design
- Hollow core
- Strong traction
- Dual-encoder

RB200 Series Rotary Joint Module

[Outer Diameter: 40/52/70/80/90/110/142/170]

Brief

The RB200 series rotary joint module represents a breakthrough in motion technology, combining a drive, dual hollow encoders, frameless motor, harmonic reducer, and advanced sensors into a single, highly integrated unit.

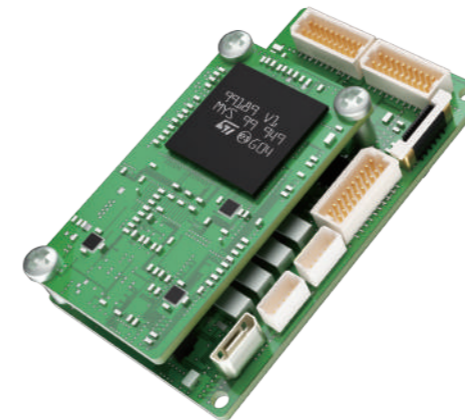
This innovative design delivers exceptional precision and reliability while simplifying integration into automated systems. With its compact, all-in-one architecture, the RB200 streamlines installation, reduces maintenance, and enhances performance—making automation more efficient than ever.

Feature

- ≥18mm hollow design for simplified cable routing
- 19-bit high-resolution encoders at motor and reducer for precision control
- 100% in-house developed core components ensuring quality and timely delivery
- High-integration technology for compact, space-saving modules
- 3×peak torque output with minimal thermal rise and loss
- Multi-unit cascading via single debug interface

Application

Humanoid robots, collaborative robots, medical robots, turntables with high precision, etc.



- Modular design
- Energy efficient
- Multiple interfaces
- High power density

SD200 Series High-power Servo Drive

[Rated Power: 50W~5500W]

Brief

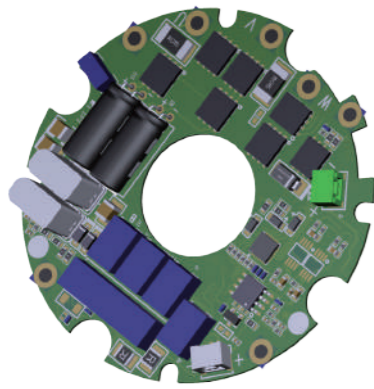
SD200 series drive features an innovative hardware and software architecture that incorporates cutting-edge technologies including: high-efficiency GaN power semiconductors, integrated chip-level circuitry, switching loss reduction technology and high-frequency carrier modulation, to deliver superior driving performance, enhanced energy efficiency and more compact footprint.

Feature

- Modular design for flexible adaptation to diverse application scenarios
- High torque and speed output for powerful performance
- Up to 99% efficiency for optimal energy savings
- Ultra-slim stacked circuit design for space-efficient integration
- Compatible with incremental and absolute encoders

Application

Humanoid robots, collaborative robots, medical robots, low-altitude devices and service, semiconductors, 3C electronics, etc.



Accurate control



High power density



Multiple functions



High design standards

SD200 Series Ring Drive

[Rated Power: 30W~1500W, inner and outer diameter for option]

Brief

Adopting high-power density technology, the ring drive is able to achieve a more compact size and, in line with different application scenarios, it can be customized in diverse structural forms and integrated with a wide range of functions, which enables its extensive application in scenarios like collaborative robots, humanoid robots, and medical robots.

Application

Humanoid robots, collaborative robots, medical robots, articulated modules, etc.

Feature

- ◎ 3× peak torque output with sustained 97%+ efficiency
- ◎ EtherCAT, CANopen, RS485 for seamless PLC integration
- ◎ Certified safety compliance and STO function
- ◎ Large hollow diameter setting for convenient internal routing
- ◎ Dual-encoder support + torque sensor interface
- ◎ Non-standard customization for specialized applications



Compact design



Simple structure



Engineering excellence



Enhanced optional noise

Reducer

[Type: Cup or cap]

Brief

The work principle of the harmonic reducer is a power transmission mode where the flexible gear undergoes elastic deformation. It breaks through the traditional mechanical transmission mode that relies on rigid mechanisms. Due to the fact that the deformation process of the intermediate flexible component is essentially a symmetrical harmonic wave, it is named "harmonic drive".

Application

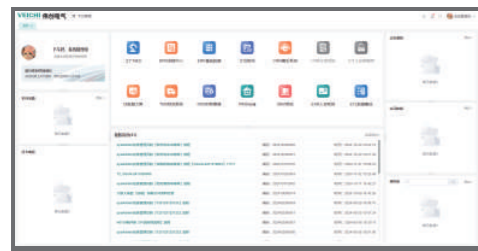
Humanoid robots, collaborative robots, industrial robots and devices, etc.

Feature

- ◎ Precision engineering
- ◎ Optimized power efficiency
- ◎ Heavy-duty capacity
- ◎ Ultra-high speed ratio
- ◎ Silent operation
- ◎ Lightweight construction

VEICHI MOM DIGITAL SOLUTIONS

Built on Industry 4.0 standards, VEICHI's integrated digital platform combines IoT connectivity, big data analytics, and advanced automation to deliver end-to-end production process optimization. Our solution enables smarter manufacturing decisions through real-time operational visibility and intelligent control covering smart production execution, unified equipment connectivity, quality assurance system and energy optimization. The platform's modular design and standardized interfaces ensure rapid deployment with existing enterprise systems. And we also offer tailored configurations for specific industry requirements, including specialized compliance management packages.



Manufacturing Operations Management System

Brief

Leveraging value stream analysis, VEICHI systematically evaluates each production process to identify optimization opportunities. And guided by value stream objectives, we deliver end-to-end digital transformation services, including: Smart Factory Consulting & Planning (e.g., "Black Light Factory" design), Intelligent Equipment Upgrades, Digital System Integration, In-Plant Logistics Optimization (AGV handling & scheduling) and Warehouse Management (leveling/standing warehouses). Our holistic approach addresses critical manufacturing challenges—enhancing production efficiency, on-time delivery, and product quality—to drive measurable operational improvements.



Feature

- Comprehensive Services: Expert consulting, intelligent equipment upgrades, digital system integration, and end-to-end in-plant logistics & warehouse management
- Value-Driven Digitalization: MOM platform development guided by value stream analysis for seamless operational flow
- Enterprise System Integration: Full-chain ERP connectivity and cross-platform interoperability for unified operations

Application

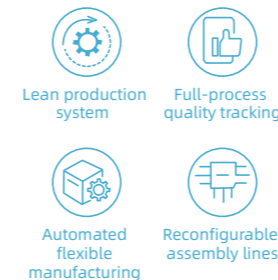
Overall digital transformation such as new factory construction, factory relocation, and factory digital upgrade



MES System

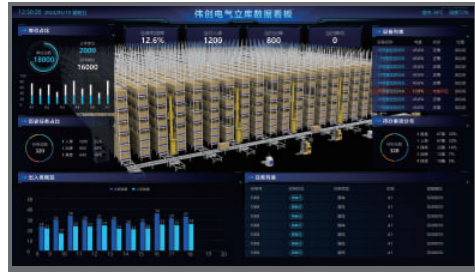
Brief

Our advanced ERP system is designed to empower manufacturing enterprises by achieving production process transparency and automation, which offers real-time monitoring and in-depth data analysis, enables precise production planning and scheduling, ensures robust quality management and control, supports automated production process control, and seamlessly connects with supply chain collaboration tools to optimize the entire supply chain.



Feature

- Operational Excellence: Real-time production visibility, quality traceability, and data silo elimination for enhanced planning-production synergy
- ERP Synchronization: Automated work order generation from production plans for precise execution
- Hardware Compatibility: Seamless integration with barcode scanners, industrial PDAs, PLCs, and data acquisition devices
- Foundational Framework: Organizational, material, BOM, process, and user-role management with standardized coding & labeling
- Functional Layer Capabilities: Planning management, work order management, station-specific data collection, smart material call-off, equipment & tooling management, ESOP, quality & label management, dynamic work order adjustment, auxiliary materials & performance tracking, first-article validation, intelligent production scheduling
- Smart Analytics: Real-time Kanban dashboards and customizable production reports for data-driven decision-making



WMS

Brief

Our warehouse system offers versatile capabilities, supporting both flat and vertical warehouse configurations to accommodate traditional manual operations and modern AGV automated warehouse scenarios. The platform enables seamless data integration with key enterprise systems including ERP, MES, and SRM systems, ensuring smooth information flow across your operations. This interoperability enhances supply chain visibility and operational efficiency, and both inbound/outbound management accuracy.

- Multi-system data sync
- Enhanced vertical warehouse storage capability
- WCS integration
- Automated storage and retrieval

Application

Flat and vertical warehouse management

Feature

- Equipped with stacker cranes, RFID scanning, and real-time inventory updates
- Receiving, inbound/outbound, storage, and full warehouse workflows
- Packing/unpacking, consignment handling, batch merging, stock adjustments, freezing, and cycle counting



IOT System

Brief

With years of hands-on experience in industrial automation, VEICHI harnesses its proven IoT capabilities to deliver robust industrial solutions, which enables real-time data transfer and visualization, providing instant insights into equipment performance and critical operational parameters.

- Modular design
- Various industrial protocols
- Quick implementation
- High-performance engine

Application

Acquisition and presentation of equipment operating parameters for various types of discrete manufacturing plants

Feature

- Reusable API and business modules
- Building-block development for tailored solutions
- VEICHI proprietary hardware compatibility
- Independent yet interconnected system data decoupling



CRM

Brief

Our solution manages the end-to-end customer lifecycle—from marketing and customer acquisition to sales management, order tracking, returns processing, payment collection, financial reconciliation, and after-sales service. By seamlessly integrating sales operations with enterprise IM communication and workflow automation, we streamline collaboration and accelerate decision-making and ensure real-time visibility across teams, resulting in a dynamic, interactive business environment that boosts engagement, responsiveness, and overall operational efficiency.

- Full-cycle sales management
- Automated financial data alignment
- Visual order tracking
- Multi-terminal access

Application

Online full process management for sales teams of 20+

Feature

- Project-based and channel-based sales support
- Sales funnel management for full-process tracking and control
- Automated accounts receivable and financial data integration
- Special price approval process with audit trails
- Joint warranty center functionality for enhanced service



SRM

Brief

Our platform streamlines the complete supplier management lifecycle, covering supplier qualification, purchase requisitions, RFQ management, purchase orders, delivery tracking, financial reconciliation, vendor-managed inventory, and procurement tenders. And the purchasing teams can gain full visibility into supplier performance, demand forecasts, competitive pricing analysis, order fulfillment timelines, shipment status, and payment reconciliation - all through a unified dashboard, creating a true closed-loop management system with higher efficiency and lower cost.

- End-to-End process management
- Efficient team collaboration
- Multi-platform accessibility
- Role-based permissions

Application

Online management of purchasing operations

Feature

- Comprehensive lifecycle management, from supplier registration to inventory control
- Automated reconciliation and seamless collaboration between procurement and finance
- Automated delivery note-to-label printing and factory receiving/warehousing integration



Low-code Platform

- Customize development
- Quick implementation
- Custom styling support
- Unified data flow

Brief

Our integrated solution combines a robust development framework with seamless system integration and ready-to-use templates, enabling flexible process configuration, custom reporting, and real-time BI dashboards - all designed to maximize operational efficiency and reduce costs.

Application

Report, dashboard and the business approval process in conjunction with the factory's existing MES system

Feature

- ◎ Tailor-made business approval processes
- ◎ Customized reports to meet specific workshop production requirements
- ◎ Customizable production dashboards with flexible data sources and styling
- ◎ Low-code development with intuitive tools for seamless production data integration, interface customization, and workflows



IOT Extension

- 4G enhanced connectivity
- Smart install-and-go IoT integration
- 24/7 continuous, uninterrupted operation
- Real-time issue detection & troubleshooting

Brief

Integrated cloud-network-end solution

Application

Compressor management platform, construction machinery management platform, photovoltaic water pump IoT platform

Feature

- ◎ Comprehensive information maintenance and unified control
- ◎ Open API for third-party platforms
- ◎ Multi-user remote management platform accessible via browser
- ◎ Full-featured Android/iOS application for on-the-go operations
- ◎ Multi-language system in Chinese/English
- ◎ Intelligent fault query system with comprehensive statistical analysis
- ◎ Instant monitoring and command execution for equipment operations



Textile Business Digital System

- Proven track record
- Smart work reporting
- KPI-driven reward system
- Flexible pattern configuration

Brief

Built on VEICHI's deep textile industry expertise, our specialized digital platform solves critical production challenges including multi-workshop coordination, warp beam management, complex shift scheduling (2-5 shifts/rotating shifts/3-shift systems), and automated wage calculation - delivering measurable efficiency gains across your textile manufacturing operations.

Application

Workshop production management for all types of textile producers

Feature

- ◎ End-to-end support for water jet looms, warping, brown threading, circular knitting machines, and elasticizing workshops
- ◎ Comprehensive system covering weaving shaft library, production monitoring, scheduling, reports and production boards
- ◎ Real-time equipment downtime tracking with accurate data collection and visualization
- ◎ Customizable strategies by process/section for automated capacity wage calculation

AC Drive
Servo System
Control System
Specialized Drive
Digital Platform

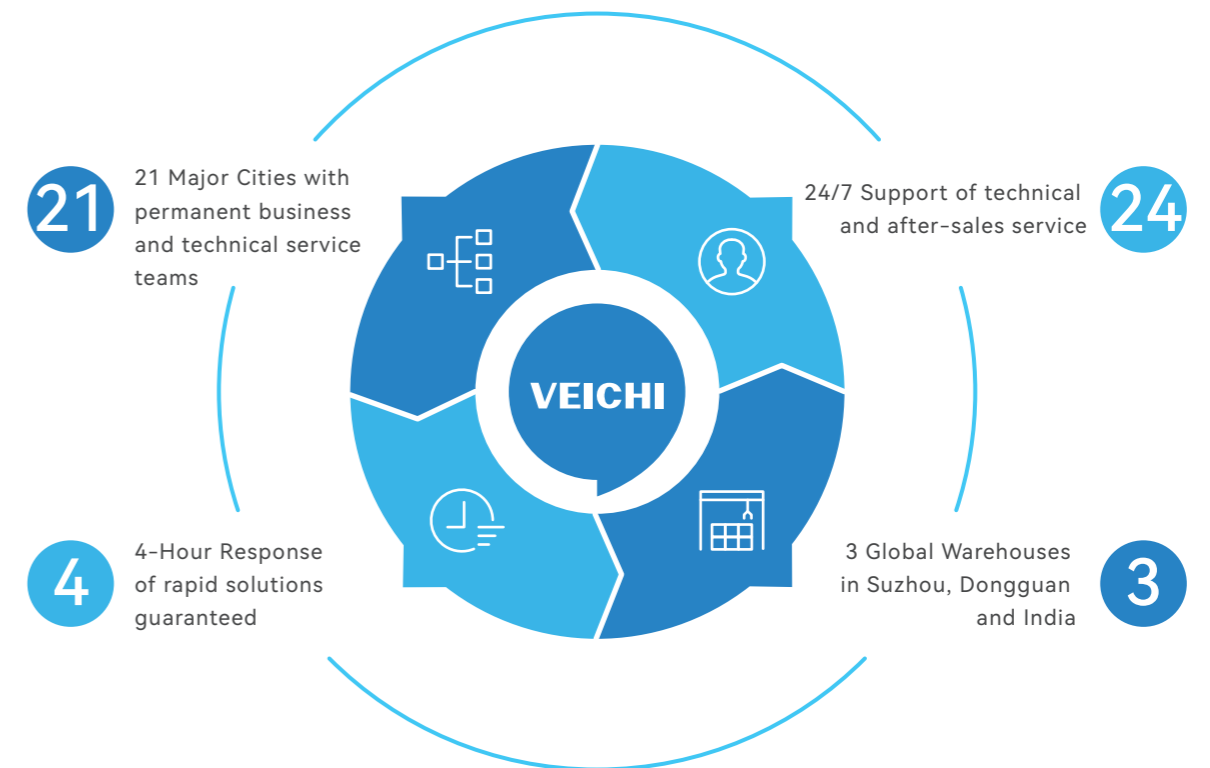
PARTNERS



SERVICE & SUPPORT

Innovation Leads, Service Accelerates

Customer-Centric Philosophy – Implementing "Five Hearts" service excellence system
 Dual-Channel Support – 24/7 network & telephone platforms with real-time monitoring
 Professional Care – Delivering attentive, patient and dedicated service at every touchpoint
 Worry-Free Experience – Ensuring customers purchase with complete confidence and satisfaction



01 Pre-Sales
 · Tech consultation
 · Site survey
 · Energy evaluation

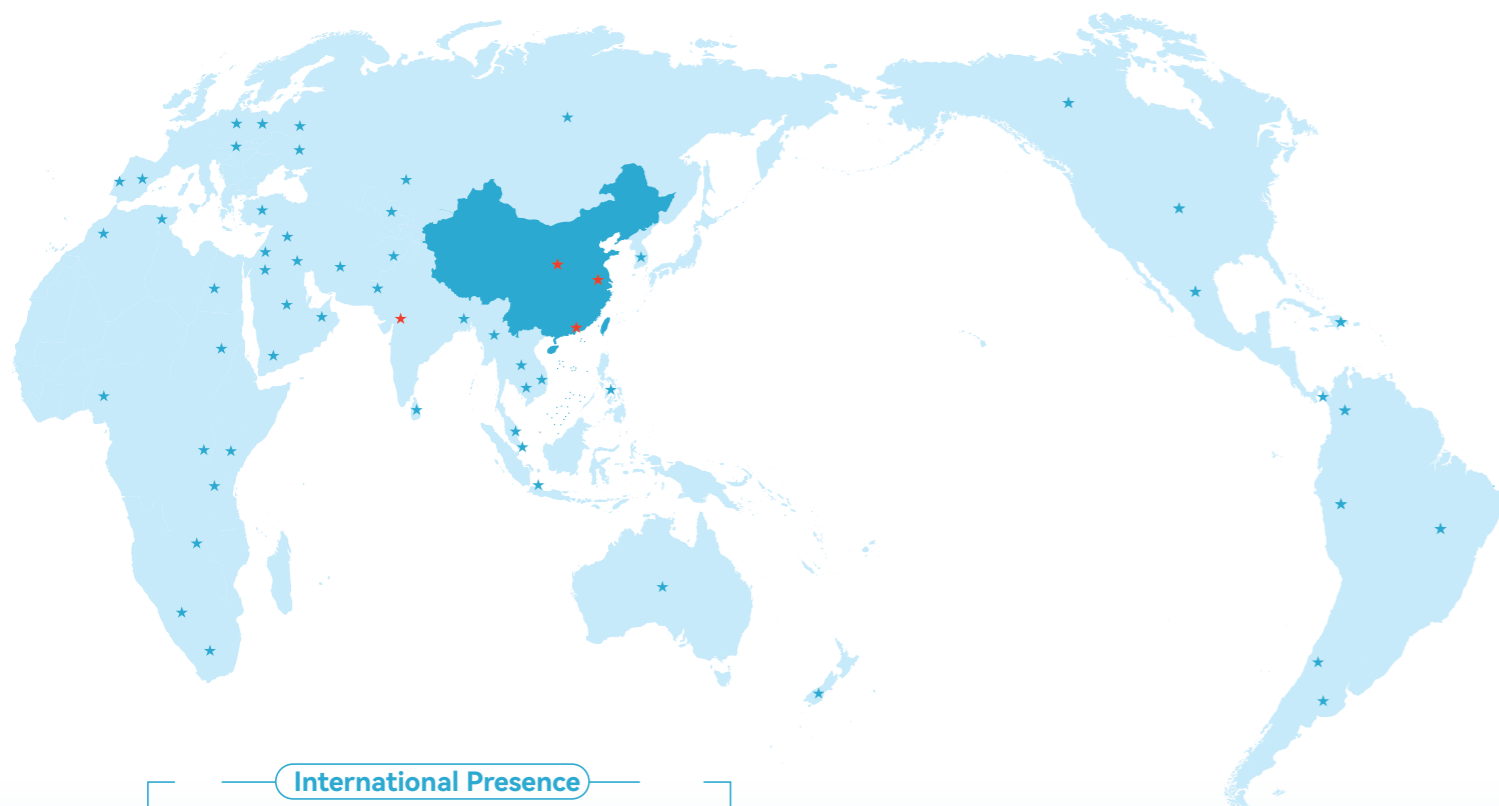
02 In-Sales
 · Custom solutions
 · Installation
 · Training

03 After-Sales
 · Scheduled visits
 · Preventive maintenance & Emergency repair
 · Ongoing user competency development

SERVICE SCOPE

Pioneering Technology , Unmatched Service

VEICHI Electric has established an integrated global service network through its innovative "Region + Industry" marketing strategy, which synergizes cross-sector resources and distribution channels to deliver comprehensive solutions. With permanent business and technical support teams strategically located across 21 major Chinese cities and overseas operations including Indian subsidiaries, the company is supported by an extensive network of 313 domestic and international distributors that ensure seamless market coverage. By consistently delivering superior product quality backed by professional technical support and service excellence, VEICHI Electric continues to enhance its global brand reputation while driving sustainable international growth through reliable, customer-centric solutions.



International Presence

Offices/service centers in South-East Asia, South Asia, CIS, Middle East, Europe, Africa and the Americas

China Coverage

21 local service centers nationwide, 22 provinces/municipalities and Hong Kong/Macau/Taiwan covered distribution network



21 domestic stations



6 overseas offices



300+ dealers

GREEN PRODUCTION

Green Innovation , Future Reimagined

As China accelerates its "carbon peak" and "carbon neutral" initiatives, VEICHI Electric has positioned itself at the forefront of integrating intelligent manufacturing with sustainable solutions - a strategic convergence that addresses both industrial efficiency and environmental imperatives.

By leveraging market-driven insights and continuous technological innovation, we are developing advanced industrial control systems that not only optimize production processes but also incorporate energy-efficient solutions, thereby accelerating industry-wide digital transformation. Through our pioneering "Twin Wings" strategy - which synergizes automation excellence with sustainability practices - we enable manufacturing partners to successfully transition to data-driven, eco-conscious operations, ultimately creating sustainable industrial productivity that meets global climate objectives.

