Company Profile

VEICHI Electric Co., Ltd. is a high-tech enterprise that is professionally engaged in the development, manufacturing and marketing of industrial automatic control products, and we are committed to becoming a global leading provider of industrial automatic control products and system solutions.

VEICHI is a competitive company and adopt the dual base operating mode, which contains the Shenzhen VEICHI and Suzhou VEIKI, Suzhou VEICHI Electric Co., LTD is located in Suzhou Wuzhou Economic and Technological Development Zone, which covers 50 acres. The total construction area is approximately 80 thousand square meters and all properties are privately run. Additionally, VEICHI is always at the forefront of the domestic industrial automation field.

VEICHI has become the leading company of industrial automation, which owns an innovative R&D team and establishes a good cooperation relationship with famous universities and research institutions. Currently, VEICHI owns more than 110 patents of invention, and many of them are in the leading position both at home and abroad, which completely has independent intellectual property rights. VEICHI produces a variety of core products, including Variable Frequency Drive (VFD), Servo Drive System, Photovoltaic inverter, PLC, HMI, and automation equipment, which are widely used in industries such as oil & gas, chemical, ceramic, textile & construction, plastic, making, metalurgy, electrical cable and wire, plastic, printing and packaging, textile, chemical fiber, metal work and, coal mining and municipal engineering. Suitable solutions and products are always ready to meet the demands and improve comprehensive competitiveness of customers.

“Customer is the foothold” of VEICHI, therefore we are committed to becoming one of the leading providers of electric drives, industrial automation, energy products, VEICHI has set up more than 40 brand offices in China and dozens of partners in Asia, Europe and Africa. VEICHI has been ranked Chinese Electrical Industry’s Top Ten National Brands, Chinese Electrical Industry Top Ten High-Tech Enterprises and Top Ten National Brand of Industry, VEICHI products have become the first choice of many enterprises.
Development History

Always be with you
2005-2018

2006
- Company moved to Wenter Science and Technology Park, Shajian Yinggangli Community, Baoan District
- Achieved ISO9001:2008 Quality Management System certification
- Developed AC66 enhanced general purpose VFD;

2008
- Company was named as "the fastest growing enterprise"
- Launched AC200 Series Vector VFD
- Achieved 16 software patents and copyrights;

2010
- Established photovoltaic business department to aim at new energy industry;
- Developed servo system product;
- Launched AC300 series Vector VFD;

2012
- Launched SC600 series electric and hydraulic servo product;
- Launched VE series PLC product;
- Ruike Industrial Park in Shenzhen city;

2014
- Shenzhen Veichi base began to operate;
- Launched AC200 series high performance VFD and motion controller;

2016
- More than 100 patents and 200 patents application are owned by Veichi

2018
- Shenzhen Veichi Electric CO., LTD was founded;
- Launched AC32 series general purpose VFD;

2005
- Shenzhen Veichi Electric CO., LTD was founded;
- Launched AC22 series general purpose VFD;

2007
- Achieved Shenzhen city high-tech enterprise certification;
- Launched AC32 series earned enhanced general purpose VFD;

2009
- Launched AC20 Series Mini VFD, turnover exceeded 100 million RMB for the first time;
- Got award "Chinese Electric Industry Top Ten Selling Brand" and "Top Ten National Brand Charter Industry";

2011
- Achieved "National High-tech Enterprise" and "Top Ten Brand of Frequency Inverter";
- Launched AC300 Series VFD;

2013
- Launched AC500 series general purpose servo system;
- Launch AC30 vector VFD, construction plug-in VFD, and solar energy power VFD;

2015
- Completed the first phase of Shenzhen Veichi Industrial park;

2017
- Launched SC600 high performance vector system;
- AC320 Series high performance VFD.
## Corporate Culture

<table>
<thead>
<tr>
<th>Adhers to innovation, continuous high investment</th>
<th>20% R&amp;D Investment</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 Debugging equipment</td>
<td>Dual R&amp;D centers</td>
</tr>
<tr>
<td>Advanced test laboratory configured over 150</td>
<td>Sharper/Syntho dual</td>
</tr>
<tr>
<td>equipment and instruments</td>
<td>base operating &amp; R&amp;D</td>
</tr>
<tr>
<td></td>
<td>support and services all over the world</td>
</tr>
<tr>
<td></td>
<td>40% R&amp;D staff</td>
</tr>
<tr>
<td></td>
<td>R&amp;D staff account for 40% in VECHL, the ratio of lead staff to R&amp;D staff is 2:1</td>
</tr>
<tr>
<td></td>
<td>State certification</td>
</tr>
<tr>
<td></td>
<td>Achieved national high-tech enterprise and Top Ten National Brand in Renewable Energy Industry</td>
</tr>
</tbody>
</table>

### Plentiful achievement to be NO.1 Industry

- Get award “Chinese Electric Industry Top Ten Satisfaction Brand” and “Top Ten National Brand Inverter Industry”.
- More than 100 patents and 200 patents application are owned by VECHI.
- Launch at least one new product each year; update at least one function each season.

### Total devotion services

- Fast response to market requirements
- Investigate industry needs per day
- R&D visit customers per month
- Collect more than one thousand effective requirements per month
- Online service quickly transforming into new version products
- 99% of orders can be shipped within two days
- 99% of customer needs are met
- Feedback is collected and used immediately
- 24/7 hours 010-8815-2303 telephone support service
- Set-up special parts center in 42 cities across the country
- 40 offices equipped with VECHI engineers
- There are R&D certified engineers in the company
- Feedback from customer complaints within 24 hours
Honors and Certificates
VFD
AC300 High Performance Vector VFD
AC70 Open Loop Vector VFD
AC70E Mini Type Vector VFD
AC200 General Purpose VFD
Drawing Machine Purpose VFD
Tension Control Purpose VFD

Servo and motion control
S3700 Series High Performance Servo System
S3600A-1-SMM Series AC Servo System
S3600S-SMM Series AC Servo System
V5 Series Motion Type PLC
VE Series PLC
V1 Series HMI
VM7 Series Servo Motor

Integrated industry product
S200 Series Construction and Lifting Integration Purpose VFD
Q7 Series Tower-crane Integration Purpose VFD
AC70T Series Hoist Purpose VFD
S3650 Series Electric Hydraulic Servo System
AP100 Series Pmsm Air Compressor Purpose VFD
S180 Series Solar Pump Inverter
S193 Series Solar Pump Inverter

Remote data transmission module
AC Series VFD

We are committed to providing better products for industrial control industry

Product profile

Motor plays an important role in our daily business and life. Basically, the motor drives all the activities in our daily business or entertainment, all of which provide the torque or speed by consuming electricity. The inverter can convert the fixed frequency alternating current into the alternating voltage power supply with variable voltage, variable frequency to motor.

AC Series VFD

VECHI AC series inverter, various functions, flexible, easy to use, reliable performance, complete specifications and wide application. Since 2005, we have provided more than 180 sets of VFD in various fields of industrial automation, which are sold all over the country and exported overseas. It has saved about 46 billion 800 million degrees of electricity and reduced about 1300 tons of CO2 emissions. The quality of products has been unanimously recognized by customers.

Show strength with facts

Freight site

Industry application

- Print and packaging
- Textile and dyeing
- Forging and pressing
- Ceramic machinery
- Petrochemical industry
- Coal and metallurgy
AC300 High-Performance Vector VFD

Features
- High performance vector platform, new motor control algorithm
- Integrated AM/PM control mode and open-close loop mode
- Narrow body design, smaller installation space
- Modular design of SW and HW, powerful expandability
- Full expansion, cover kinds of application
- Optimized keypad design, support connecting external keypad
- Three-proofing paint process design, ensure stability and reliability
- Up and down straight air duct design, DC fan inside

Product profile
Narrow body design, the volume is 60% smaller than before; New structure layout, higher intensity
Up and down straight air duct design, it can greatly reduce the volume and coat of group cabinets when it is parallel installed
Advanced motor self-tuning algorithm, obtaining accurate motor parameters under the static state of the motor, the effect is comparable to the self-tuning of rotation

Professional European terminals ensure safety and reliability, Save time in wiring and increase efficiency
Dual SPI interface, automatic identify expansion card, full expand function
Full protection function, omnidirectional protection from inside to outside

Magnetic field oriented vector control technology
Compact body, synchronous asynchronous motor
Small size, narrow body design, save installation space
High reliability, power density, adaptability
Various control interfaces, new optional accessories
Product profile

AC70 Series product is a high performance open vector VFD launched in 2013. It has been tested by thousands of equipment and applications. By virtue of excellent control performance, strong environmental adaptability, solid and durable quality, it got the unanimous praise of many customers. Main features are as below:

- **SVC**, high-torque precision and fast response.
- Powerful overload capability, 150% rated output 60 Sec, 180% rated output 10 Sec.
- Special hardware design, stronger environment adaptability and longer service time.

**Independent duct design** in AC70 Series, effectively prevent contamination of electronic components and improve the protection capability of frequency inverter.

**Fully automatic and omnidirectional** thickened anti-proof paint treatment (moisture proofing, salt spray proofing and fungus proofing)

**Full and easy-to-use software function** ensure effective motor control and meet various application requirements.
AC70E Series Mini Type Vector VFD

Product profile

AC70E series products are a mini type frequency inverter developed by our company for small power and low cost market demand, including single phase 220VAC and three phase 380V machine. It is especially suitable for some small power motor, its performance characteristics are as follows.

- Vector control without PG (SVC). VVF control mode, optimized PWM output.
- Humanized design, easy to install, operate and maintain.
- Standard configured potentiometer on keypad, keypad support to remote connection and copy/SAVE parameters.
- Wide voltage range input, adapt to different Application requirements.

A delicate layout, the size of the palm, Lesser install space

Using advanced and accurate thermal simulation software, the reliability of the whole machine's temperature rise is guaranteed under the premise of reducing the volume. AC70E mini type vector VFD

New generation energy saving technology ensure motor efficiently operating and reduce electricity consumption, Maximizing the efficiency of motor

Full protection, support OU, phase loss, overload, GH protection, support pre-alarm, alarm in advanced and remains running
AC200 Series General Purpose VFD

Features
- Compact structure, easy to use
- Integrated AM and PMSM control mode
- High start torque, 0.2Hz output, 150% rated torque without PG, 0Hz output 200% rated torque
- Output high frequency, 12 times weak magnet variable speed range with high precision output
- Perfect network configuration
- Advanced auto tuning of motor
- Full expansion
- Simple and effective debugging software tool

Product profile
AC200 series adopts the international leading vector control technology, compatible with asynchronous, synchronous motor control and open-loop/closed-loop control. It also enhances the reliability and functionality of the product, and strengthens the customer's usability and professional design. The main features are as follows:

- Optimized structure design, advanced vector control platform, integrate AM/PMSM, open/close loop;
- Excellent torque and rotational speed characteristics, various software functions, flexible applied in different application;
- Powerful expansion capability, full option type, customizable.

Support multiple motor type, provide effective control strategy
- AM motor, electricity spindle, PMSM

Super overload capability, 150% rated load keep 60 sec, 180% rated load keep 10 sec, 200% rated load keep 0.5 sec
Drawing Machine Purpose VFD

- High ingress protection design, resistance to dust and vibration, independent duct design.
- Professional treatment for drawing machine, built in multiple groups parameters, no need to set parameters one by one. Simple debugging.
- Perfect software function and easy to use, save peripheral circuit to realize specialized application.
- Built in multiple groups parameters in VFD, call it directly according to machine type (water tank, master, slave), no need to set parameters one by one.

Features:
- Resistance to dust, independent duct design
- Thickened three-proofing paint treatment on PCB, higher reliability
- High anti-echo design and easy response to mechanical vibration
- High torque at low frequency, fast dynamic response characteristics, super steady speed accuracy
- Unique tension algorithm, dual response tension varying
- Integrated tension algorithm into VFD, save peripheral control circuit
- Smoothly start and stop, continuous fine in-acceleration and deceleration
- Flexible parameters setting, call groups parameters directly in ahead of setting one by one

Product profile:

Drawing machine type

Water tank drawing machine—Master 1

Water tank drawing machine—Slave 2

Drawing machine diagram: Positive unwinding and constant tension winding by VFD

Drawing machine diagram: Active unwinding and constant tension winding by VFD
Product profile

- Multiple tension control modes, support close loop speed mode, open close loop torque mode.
- Intelligent torque compensation module, system inertia compensation, material inertia compensation, friction compensation.
- Built-in PID parameters, automatic tuning according to process parameters (Roll diameter, frequency, linear velocity).
- Belt detection, belt protection based on real diameter varies exception.

Thickness integration method application

The current section of the machine does not provide the linear velocity determined by the traction mechanism. The material linear velocity is directly determined by the front section motor, and the material tension is determined by the special VFD. The roll diameter of this solution is calculated from the ring pulse provided by the encoder, and an external limiting device can also be added.

Line speed method application

The material is pulled by the front end machinery and determines the line speed of the material. The material tension is determined by the tension-specific frequency converter. The roll diameter can be calculated from a given linear velocity.
Servo and Motion Control

High precision and fast response, we are committed to providing better products for China’s manufacturing of “2025”

China manufacturing of “2025”

HMI

V5 series motion type PLC

Servo drive

Servo motor
**SD700 Series High-Performance Servo System**

**Features**
- Response bandwidth reaches 3K Hz
- Adopted 24-bit absolute encoder, high communication speed
- Bandwidth setting, automatic calculated gain of PID loop
- Robust control, ensure smooth operation within 30 times inertia
- Automatic identity inertia, gain, friction offset
- Suppression multiple segment vibration suppression effective
- Powerful host PC software, multiple Monitoring channels, easy to use

**Special Features**
- 3KHz response bandwidth in speed loop
  - Effective enhance speed loop bandwidth, minimize tuning time to 1 ms through special current loop algorithm, increase productivity
- 24-bit absolute encoder
  - Adopted the top-level 24-bit absolute encoder in industry, up to 16,777,216 pulses per turn, communication speeds up to 4Mbps speed
- Powerful host PC software
  - Free installation of debugging software
  - USB communication between drive and PC, easy to use

**Specification**

<table>
<thead>
<tr>
<th>Voltage class</th>
<th>Single phase 220V</th>
<th>Three phase 220V</th>
<th>Three phase 380V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Servo motor power class (kW)</td>
<td>0.1, 0.2, 0.4, 0.75, 0.85, 1.3, 1.8, 2.8, 4.4, 9.5, 7.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting direction (frame)</td>
<td>40, 60, 80, 150, 190</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application**

- CNC
- Robot
- Wood machinery
- Electronics manufacturing
- Smart logistics
- CNC cutting machine
SD600A1-SMM Series AC Servo System

Features
- The main chip is Texas 32-bit DSP
- Industrial intelligence power module IPM
- 2500-line incremental encoder
- Maximum speed up to 500rpm
- Triple overload capacity
- Bulit-in simple motion controller
- Three control modes switch at any time
- High value for money

Cases
- Precise position control
- Middle-cut fixed length control
- Location tracking

Specifications
<table>
<thead>
<tr>
<th>Power range(kW)</th>
<th>0.2</th>
<th>0.4</th>
<th>0.75</th>
<th>1.5</th>
<th>2.2</th>
<th>3</th>
<th>4.5</th>
<th>6.5</th>
<th>7.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage level</td>
<td>Single-phase 220V AC</td>
<td>220V-250VDC</td>
<td>380-430VAC</td>
<td>Single-phase 220V AC</td>
<td>220V-250VDC</td>
<td>380-430VAC</td>
<td>52/60Hz ±15%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency range</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Encoder</td>
<td>1000ppr (incremental encoder, 3-resolution, 6-resolution)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor power(kW)</td>
<td>0.2, 0.4, 0.75</td>
<td>1.5, 2.2, 3</td>
<td>4.5</td>
<td>6.5</td>
<td>7.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Applications
- Double twist
- Food packaging machine
- Printing machine
- Engraving machine
- Bender
- Feeder

Wide speed range
Strong overload capacity
Multiple control modes
Built-in simple motion controller
Built-in multiple electronic gears
SD600E-SMM Series
AC Servo System

Features
- Speed, position, torque, speed/position switching modes and other control modes
- More than 30 protection functions ensure the stability under operation
- Multiple origin return functions and origin detection methods
- Built-in simple motion controller
- Up to 3 times rated overload capacity
- Support debugging software
- New hardware system platform
- Gear switching function to meet different working conditions with faster speed and more accurate positioning

Special features

Mode switch
In order to improve the transient characteristics of the motor during acceleration and deceleration, PI (proportional integral) control and P (proportional) control of the speed loop can be switched to suppress overshoot and undershoot.

Jog operation
No need to input commands, the use of the driver keyboard can also operate the motor to facilitate the test run.

Prevent over-travel
Stop the drive motor when the mechanical moving part exceeds its movable range.

All-in-one control
In addition to using position, speed and torque control respectively, it is also possible to switch between any two control modes.

Feed forward compensation
Reduced positioning time due to the addition of feed forward compensation.

High-flexible internal position programming mode
Call the next path directly after path 1 is complete.
V5 Series Motion Programmable Logic Controller

Features
- Supports 16 axes synchronous motion, control cycle is 125μs + 1ms
- Powerful I/O management functions meet control system logic control requirements
- Modular idea and convenient functional module package
- Excellent inheritability shortens engineering development cycle
- Users can choose the programming method according to their own habits
- Integrate multiple function blocks that could be applied by calling
- Support multiple communication methods
- A variety of programming methods and easy to operate

Specifications

<table>
<thead>
<tr>
<th>Environment</th>
<th>Operation: -40°C to 70°C, Storage: -20°C to 85°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative humidity</td>
<td>Operation: 5% to 95% (no condensation)</td>
</tr>
<tr>
<td>Vibration</td>
<td>Frequency (Hz)</td>
</tr>
<tr>
<td>Offline mounting</td>
<td>10~50</td>
</tr>
<tr>
<td></td>
<td>50~100</td>
</tr>
<tr>
<td>Use environment</td>
<td>Non-corrosive, combustible gas, non-conductive dust (dust)</td>
</tr>
<tr>
<td>Use height</td>
<td>2000m or less</td>
</tr>
<tr>
<td>CPU frequency (MHz)</td>
<td>1386</td>
</tr>
<tr>
<td>RAM</td>
<td>64M</td>
</tr>
<tr>
<td>Display interface</td>
<td>RS422, Network port</td>
</tr>
<tr>
<td>USB</td>
<td>1 x USB 2.0</td>
</tr>
<tr>
<td>COM port</td>
<td>1 x RS232, 2 x RS485, 1 x RS422</td>
</tr>
<tr>
<td>Ethernet</td>
<td>1 x 10M/100M adaptive</td>
</tr>
<tr>
<td>Power supply</td>
<td>90<del>264VAC, 187</del>280VDC, 65Hz</td>
</tr>
<tr>
<td>Encoder signal</td>
<td>50PPR</td>
</tr>
<tr>
<td>AO interface</td>
<td>128×2</td>
</tr>
<tr>
<td>Digital I/O</td>
<td>22 in 14 out</td>
</tr>
<tr>
<td>Cycle</td>
<td>Controllable: 1ms</td>
</tr>
<tr>
<td>Field bus</td>
<td>EtherCAT/CAN/Modbus</td>
</tr>
<tr>
<td>Expandable</td>
<td>16-bit/32-bit module, etc. module</td>
</tr>
<tr>
<td>Power</td>
<td>24V±15%</td>
</tr>
<tr>
<td>Motion control</td>
<td>Point Motion / Joints / Electronic Gear / Electronic Cam / 2D Linear Interpolation / 3D Linear Interpolation / Position Comparison</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10°C to 55°C</td>
</tr>
<tr>
<td>Winding humidity</td>
<td>25% to 95% (no condensation)</td>
</tr>
<tr>
<td>Control size</td>
<td>138×138×158mm</td>
</tr>
</tbody>
</table>

V5MC104 has a powerful function combination, but also provides a variety of digital input and output modules, analog input and output modules, PWM, stepper motor modules, relay output modules and other modules can be extended to more than 20010 points. Now the logic controller has various functions and the input and output function requirements of various signals.
VE Series PLC

Features
- Larger storage space
- Extend multiple I/O modules
- Multi PID control function
- Power-off protection
- AES iterative encryption algorithm to protect intellectual property
- Strong anti-interference ability
- High-speed processor chip that could control various industrial equipment
- Compact and exquisite

VE100 series CPU

VE200 series CPU

VE200 digital I/O module

VE300 digital I/O module

Other communication module and accessories
**Features**
- High-speed transmission reaction and high stability
- Delicate, clear and responsive screen
- Development software is easy to understand
- Screen resolution is as high as 480×800
- High-performance 32-bit RISC CPU with faster response
- TFT liquid crystal display, high brightness, long service life
- A variety of specifications and sizes
- Simple and elegant appearance

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>VI10-014TS</th>
<th>VI10-015TS</th>
<th>VI10-102TS</th>
<th>VI10-070TS</th>
<th>VI10-102TS</th>
<th>VI10-070TS-Ver2</th>
<th>VI10-102TS-Ver2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (inch)</td>
<td>4.3</td>
<td>7.0</td>
<td>10.2</td>
<td>7.0</td>
<td>10.2</td>
<td>7.0</td>
<td>10.2</td>
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<tr>
<td>Resolution</td>
<td>480×800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control panel</td>
<td>4-line precise resistor network (surface hardness 4H)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration software</td>
<td>None</td>
<td>None</td>
<td>VI Studio</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td>None</td>
<td>None</td>
<td>300cd/m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td>LED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contrast</td>
<td>400 : 1</td>
<td>500 : 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Print port</td>
<td>Serial port</td>
<td>Serial port</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SD card</td>
<td>Non-support</td>
<td>Support 32GB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>128M FLASH+64M DDRAM</td>
<td>128M FLASH+128M DDRAM</td>
<td>64M FLASH+128M DDRAM</td>
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<tr>
<td>Color</td>
<td>65535 color</td>
<td>16-million color</td>
<td>256-thousand color</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE certificate</td>
<td>EN60950</td>
<td>EN60950</td>
<td>CE standard certificate/FCC Class-B certificate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection level</td>
<td>IP65</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>+15 ~ 95°C (DC24V±15%)</td>
<td>+15 ~ 95°C (DC24V±15%)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DC (12V~20V DC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power (W)</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.6</td>
<td>1.2</td>
<td>1.7</td>
<td>0.9</td>
<td>1.2</td>
<td>0.9</td>
<td>1.2</td>
</tr>
</tbody>
</table>

**VI Series HMI**

- High resolution
- Delicate and clear picture
- Friendly interface and easy to get started
- Support various microcontrollers, microcontroller finals in the market
VM7 Series Servo Motor

Features

- Faster heat dissipation and more even temperature distribution
- Rotor level 10 optimization design
- Optimized permanent magnets design and high resistance to demagnetization
- Up to 3+ times overload capacity
- High motor slot fill rate, large winding diameter, low resistance, low heat generation (20% reduction)
- The open design of the motor shaft and can be equipped with a variety of encoders
- High dynamic response of motor
- Reduce volume by more than 20% and lower weight

Performance

Reducing the motor pulsating torque drastically, making the low-speed operation more stable
With 10 rotors and 12 slots stator design, through a special magnetic circuit, effective suppressing cogging, greatly reducing torque ripple, thus ensuring a more stable motor speed and low speed operation

Motor miniaturization, high dynamic performance
Adopt the latest manufacturing process to optimize the magnetic circuit design, reduce the magnetic loss, and achieve high dynamic response characteristics of the motor, while the motor volume is reduced by 20% compared with the previous products

24-Bit absolute encoder
Industry-leading 24-bit absolute encoder with up to 16,777,216 pulses per revolution, communication speeds up to 4Mpps. Achieve more accurate positioning, low-speed and more stable, no power-off loss

Taking a 200W motor as an example, the length is reduced by 20mm
Integrated Dedicated Machine Industry Driver

Product description

Integrated special machine: Integrated special machine products integrate the drive products of photovoltaic, hydraulic, construction machinery, air compressor and other industries, providing targeted systems and solutions for different industries to meet the needs of different industries, mainly for the application of synchronous motors. Occasionally, it achieves the perfect unity of driving and energy saving.

Construction lifting integrated machine
Set frequency inversion control unit, logic control unit, lifting weight limiter, brake power supply, etc.; has the advantages of full-featured, stable performance, exquisite appearance, easy installation, etc.

Tower crane frequency conversion machine
A mid-to-high-end model that is specifically designed for the electronic control needs of tower cranes. Sets three large-unit frequency inversion control units, PLC logic control unit, & back box control unit (expansion) as one; to provide customers with a high-performance and complete tower crane control solution.

Electrohydraulic servo driver
Comprehend electrical and hydraulic advantages, with high control accuracy, fast response, large output power, flexible signal processing, easy to implement a variety of parameters and feedback, the industry uses a very wide range.

Permanent magnet synchronous air compressor driver
Host, fan, cooling fan integration; high protection level; GPRS wireless transmission, remote monitoring of the air compressor on-site application; meet the water supply pressure, the minimum operating current, maximum output and optimal energy saving.

Photovoltaic pump driver
Used for providing clean water in remote areas where power facilities are scarce. The controller can convert the DC of the PV array to AC and drive various pumps.
S200 Series Construction Elevator Integrated Control System

**Features**
- Run smoothly during frequent jog operation or arbitrary operation without vibration and slip phenomena.
- LCD display, showing the current floor, running direction, running speed, deadweight, etc.
- Optimized structural design greatly saves installation space and facilitates cage layout.
- Dedicated secure acceleration and deceleration design improve comfort during start and stop.
- Control power protection, braking resistor, and brake short circuit protection.
- Fulltorque verification function, emergency stop can be achieved when abnormal, improve equipment safety and reliability.
- Spare power supply port, dual power supply switching operation.

**System Components**
- Cage operation box
- Falling operation box
- Braking resistor
- VFD
- Control trolley
- Pin sensor
- GPS
- Transmission gear

**Naming rules**
- S200C-037-B

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable motor power</th>
<th>Rated input voltage</th>
<th>Rated output current (A)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>S200C037-B</td>
<td>37KW</td>
<td>380V</td>
<td>75</td>
<td>11KW*3</td>
</tr>
<tr>
<td>S200C040-B</td>
<td>45KW</td>
<td>380V</td>
<td>90</td>
<td>13KW*3</td>
</tr>
<tr>
<td>S200E055-B</td>
<td>55KW</td>
<td>380V</td>
<td>130</td>
<td>19KW*3</td>
</tr>
<tr>
<td>S200E075-B</td>
<td>75KW</td>
<td>380V</td>
<td>150</td>
<td>19KW*3</td>
</tr>
</tbody>
</table>
QT Series Tower Crane Integrated Drive

Features

- Lift the anti-slip hook, Slewing flexible moment
- Lifting/swing/lifting three function modules operate independently without affecting each other
- With three major institutions of logic operations, data processing capabilities
- Flexibly remote positioning of machinery and equipment, real-time monitoring, remote fault diagnosis and other functions
- Lifting, over-torque, limit, over-current, over-voltage, under-voltage, photo fuse, short-circuit and other multi-function protection
- Bulletin clock chip can set pre-authorization time for customer management
- Intelligently optimize fixed-point crane expansion unit (optional) to improve work efficiency

System components

- Lifting drive equipment
- Turning drive equipment
- Lifting drive equipment
- Jacking equipment
- Encoder (Optional)
- Weight sensor
- Tongue Electronic
- Motion switch
- Brake resistor
- HMI (Optional)
- Wind speed sensor
- Power distribution box
- Remote monitoring module

Modular design | High performance PLC logic control chip | Easy to overhaul | IP66 protection level | Remote monitoring module
AC70T Series Lifting Dedicated Frequency Inverter

Features
- Automatic speed increment when light load or empty hook, matching optimal operating speed
- Zoned-speed torque retention prevents the brake from slipping due to long mechanical delays
- Synchronous control function ensures that two hoisting mechanisms are synchronized to ensure safety
- Anti-collision function to prevent collision
- The upper limit can be set to limit the operation of the inverter to prevent overload operation
- When the goods accidentally contact other objects, the motor automatically stops to improve the safety
- Monitoring number of brake commands as a basis for maintenance
- IDT satellite positioning and remote monitoring, easy to set up intelligent information management system

Special features
- Master-slave speed synchronization control function: When the double hoisting mechanism lifts a heavy object at the same time, then it can ensure that two hoisting mechanisms are synchronously promoted to ensure safety.
- The slack rope detection function: to prevent the unsafe operation of the light load and high-speed function due to the malfunction of the crane rope under slack conditions.

Real-time correction control (closed-loop mode): It is suitable for applications with large spans. The master-slave adopts real-time position correction to meet the synchronous control of the position of the car (applicable to driving and traveling equipment of gantry crane).

Support Profinet, Modbus and CANopen communication protocol so as to achieve the communication connection between multiple frequency inverter and PLC and HMI.
SD650 Series Electrohydraulic Servo System

Features
- Built-in CAN and 485 communications function
- Isolated terminal interface & safe and reliable
- The wind and water cooling are applicable to different environments
- 0 Hz: 180%, Stable accuracy ±0.2%, torque control accuracy ≤3%
- Den phase loss, short circuit, overheat detection, etc.
- Vector, weak magnetic and PID control
- Support 0-10V, DO4: 20mA analog signal input directly
- Support analog, CAN and 485 communications, internat and terminal commands, etc.

Working principles

Applications
- Injection molding machine
- Bending machine
- Hydraulic pressure machine
- Shoe machine
- Die casting machine
Air Compressor Integrated Driver AP100

Features:
- Integrated air compressor control process, convenient wiring
- Unique energy-saving vector control algorithm
- Humanized air dust design brings easy removal and maintenance
- Smart cloud control, real-time remote monitoring of air compressor
- Double pre-judging motor demagnetization mechanism to prevent irreversible demagnetization of the motor to the utmost
- Industry-leading fuzzy PI algorithm with fast regulation, fast response and no overshoot
- Owns the highest 800Hz vector control algorithm
- Adopt TI high-performance DSP chip and operation speed up to 200M

Air compressor industry integrated machine solution

Applications

Data transmission module
SI30 Series
Solar Pump Inverter

Features
- Intelligent IOT system-smart irrigation
- Wireless transmission, operation with just one button via APP
- Modular design
- IP66 high protection level and no need for cabinets

System construction diagram

Setting on IOT and automatic operation
- Topology diagram of the solar pump IOT

Modular design
- Inverter module
- IOT module
- Filter module
- AC/DC module

Extreme simplification, no complexity
Intelligent IOT on cloud
Disable filter to protect IOT
Intelligent switch of dual power supply

Client layer
- Wireless network (2G/3G/4G) & LAN

Network layer

Receive layer

Terminals
- Agricultural irrigation
- Fountain
- Desert recovery
- Domestic water
- Swimming pool
- Sea water desalination
SI23 Series
Solar Pump Inverter

Features
- Intelligent IOT system – smart irrigation
- Modular design
- High reliability, density and applicability
- Vertical duct design, DC fan heat dissipation
- AC110/220/400V multiple choices
- Drive PMMSM, AM, BLDC, etc.
- MPPT maximum power output + plenty of protection functions

Special performance

Advanced MPPT Technology
High MPPT efficiency max. is 99.9%
Auto-Track at any daytime

Driving Multiple Types of Pumps
- High Efficiency PMSM
  - Pumping 30-40% more water with smaller size
- Normal AM Pumps
  - Widely used with normal efficiency
- Single Phase Pumps
  - Popular in rural village with low efficiency

High Performance & Multi-functions
- High Overload Capacity
- Easy & Safe Control Function
- High Frequency
- Multiprotection mode
- Low frequency, dry running, DC, four power protection etc.

Unique and elegant appearance
Smart IOT system
MPPT Multimode
Drive multiple motors
High-performance & abundant functions
Remote Transmission Module

Features:
- Automatic error self-correcting and encryption in protocol, safe and reliable data transmission
- Monitoring status and setting PID parameters, uploading data to IoT platform
- Support mobile phone remote management, fault reminding, expiration reminding and other functions
- Built-in 1000mAh Lithium battery, the device can still ensure accurate positioning
- Prevent malicious dismantling and damage and protect customers' rights
- Support lock, unlock, real-time SMS alarm function
- GPRS real-time communication as well as data updating
- Easily remotely control the device, data-collection, and data management

Data transmission program:
- Site A
- Monitoring area A
- Monitoring area B
- Monitoring area C
- Cloud service (data center)
- Mobile office
- Real-time monitoring
- 3G/4G network

Applications:
- Lifting industry
- Textile
- Machine tool
- Air compressor
- Solar pump
- Ball mill
We employ outstanding professional and technical personnel domestically together in the field of industrial control. Currently, there are a total of 110 technical workers who got doctor or master degree, and totally staff with bachelor degree or above accounts for 90%.

VEICHI Electro adheres to "technological innovation and constantly surpass" R&D concept, in-depth understanding of customer needs, product and technology services to customers for providing customers with stable and reliable products.

VEICHI has been investing 20% of the revenue annually in the R&D department of VFO, servo systems, motion control systems, electric drives, industrial controls, green energy and new energy vehicle drives.

The R&D center was awarded the title of "Shenzhen Bai’an District Enterprise Technology Center". Several projects won the Shenzhen government high-tech project awards. In 2011, it was named the national high-tech enterprise. Overall, VEICHI’s R&D strength was further recognized.

The company has established in-depth cooperation with many famous universities and research institutes in China, and has continuously launched distinctive professional products.

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1 general lab; 4 professional labs: EMC lab, motor performance test lab, reliability lab and field application lab.

EDA design concept and theoretical design - simulation verification (thermal simulation, circuit simulation and code simulation) -- prototype measurement.

Adopt IPD (integrated production development) development process that is efficient and synergistic.
Intelligent manufacturing and full application of automation equipment

Relying on smart manufacturing, we have established a smart factory with an annual capacity of 400,000 sets.

Automatic SMT automatic production line, automatic spraying line, assembly line, test line, packaging line, high-temperature aging room and advanced production equipment.

Enterprise production implements target management, strictly follows production processes and management methods, and greatly improve production efficiency.

Complete supply chain system to meet high-volume one-time delivery.

Inherit the spirit of artisans, work on the details in quality and keep improving

Adhere to "quality first" policy and philosophy,

From the procurement, design, manufacturing and other aspects, we strictly execute accordance with the ISO9001 quality management system requirements.

High requirements achieve high quality. 100% core-job workers of production lines have gotten college education and above.

Each production date has a unique product code that can be searched through the product’s traceability system that makes quality
Market and Sales Area

60+ office institutions

1200+ cooperative customers

Domestic
More than 40 offices and branches across the country, full coverage of sales and service systems.

Overseas
We have established offices and service outlets in major cities in Southeast Asia, Europe, America and Africa, and are gradually moving towards global service.