

VEICHI

Product Catalog

VEICHI

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Whatsapp



WeChat

Company Profile

VEICHI Electric, a high-tech enterprise engaged in the R&D, production and sales of industrial automation products, has always focused on the fields of electric drive and industrial control since its establishment. It has been listed as the "Jiangsu Provincial Enterprise Technology Center", "Jiangsu Private Technology Enterprise", "Jiangsu Provincial Specialized and New Giant Enterprise", "Jiangsu Provincial Engineering Technology Research Center", "Suzhou Gazelle Enterprise" and "Competitive Brand in Motion Control Field". After years of independent R&D and innovation, VEICHI has developed a series of independent intellectual property rights. By the end of December 28, 2021, a total of 124 patents have been granted, including 28 invention patents.

VEICHI has R&D and production bases in Suzhou and Shenzhen, and has established a wholly-owned subsidiary in India. At present, the company's business covers many countries and regions, providing global customers with competitive, safe and reliable products and services.

We supply a wide range of products, including inverters from 0.4kW to 1,200kW, servo systems from 50W to 200kW, motion controllers, PLCs and HMIs, to diverse customers in lifting and mining equipment, rail transportation, machine tools, compressors, plastics, solar water pumping, building materials, robots or manipulators, printing and packaging, textile and chemical fiber, metallurgy, municipal, petroleum, chemical and other industries.

VEICHI has established 19 service outlets in China, and developed 139 channel dealers, covering 31 provinces and Hong Kong, Macao and Taiwan regions across the country, forming a wide-ranging and efficient distribution and service network to provide customers with high-quality products and efficient Service.

VEICHI will continue to adhere to the business philosophy of "Guided by market demand, Driven by technological innovation", to expand and strengthen the core businesses of inverters, servo systems and motion controllers, and intelligent IoT, and always insist on providing customers with best products and services. VEICHI will spare no effort to make contributions to promote the development of electric drive and industrial control.



Development History

Always be with you
2005-2021





Drive For Ever



CONTENTS



VFD

AC300 High Performance Vector VFD
AC10 Economic VFD
AC310 Tension Control Dedicated VFD
AC200 General Purpose VFD
AC70 Open Loop Vector VFD
AC70E Mini Vector VFD



Servo and motion control

SD700 Series High Performance Servo System
SD500 Series Spindle Servo Drive
V5 Series Motion Programmable Logic Controller
VI Series HMI



Integrated industry Product

S200 Series Construction and Lifting Integration Purpose VFD
QT Series Tower-crane Integration Purpose VFD
AC70T Series Hoist Purpose VFD
IN310 Series HVLS Fan Integrated Drive
SD650 Series Electric Hydraulic Servo System
EHS 100 Integrated Servo
SI series solar pump inverter
AP100 Series Pmsm Air Compressor Purpose VFD



Remote data transmission module

AC Series VFD

We are committed to providing better products for industrial control industry



Stable and reliable



Strong environmental adaptability



Wide power class range



Wide voltage range



Various option and accessories

AC Series VFD

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

VEICHI AC series inverter, various functions, flexible, easy to use, reliable performance, complete specifications and wide application. Since 2005, we have provided more than 1.8 million 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 package



Textile and dyeing



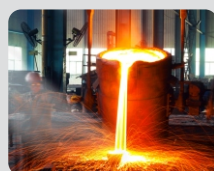
Forging and pressing



Ceramic machinery



Petrochemical industry



Coal and metallurgy

AC300 High-Performance Vector VFD

AC220V (Single phase) 0.75~15kW
AC220V (Three phase) 0.75~55kW
AC380V (Three phase) 0.75~710KW



Product profile

Narrow body design, the volume is 60% smaller than it was before; New structure layout, higher intensity



Professional European terminals ensure safety and reliability. Save time in wiring and increase efficiency



Up and down straight air duct design, It can greatly reduce the volume and cost of group cabinets when it is parallel installed



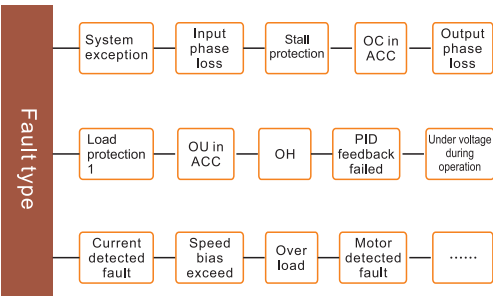
Dual SPI interface ,automatic identify expansion card .full expand function



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



Full protection function, omnidirectional protection from inside to outside

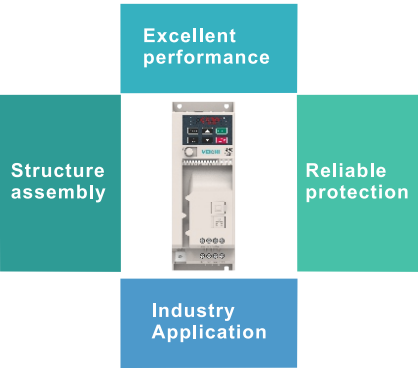


AC10 Economic VFD

AC220V (Single phase) 0.75~2.2KW
AC220V (Three phase) 0.75~2.2KW
AC380V (Three phase) 0.75~22KW

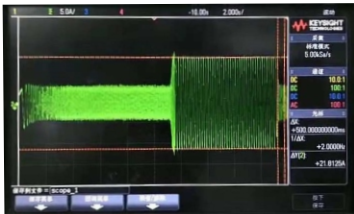


Product description

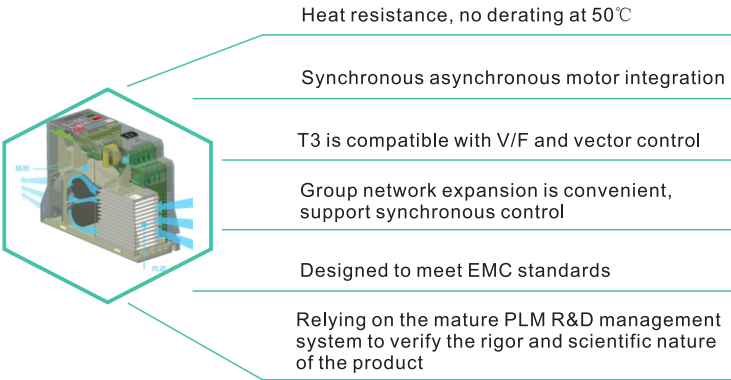


Comprehensive protection mechanism

With over-current, overload, wave by wave current limiting, over-voltage and other protection functions. Realize all-round protection from inverter content to peripheral equipment.

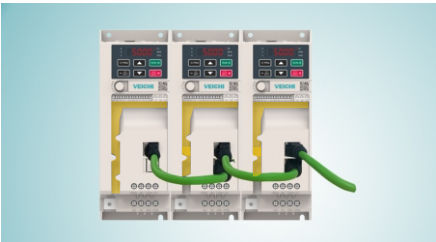


Excellent performance



Structure assembly

Narrow body design for the full range series. Straight through the top and bottom for heat dissipation to achieve seamless side-by-side installation. The hidden wire design makes the user more neat and beautiful when wiring. It has multiple installation forms such as guide rail, side, vertical, etc., which is more compact and flexible.



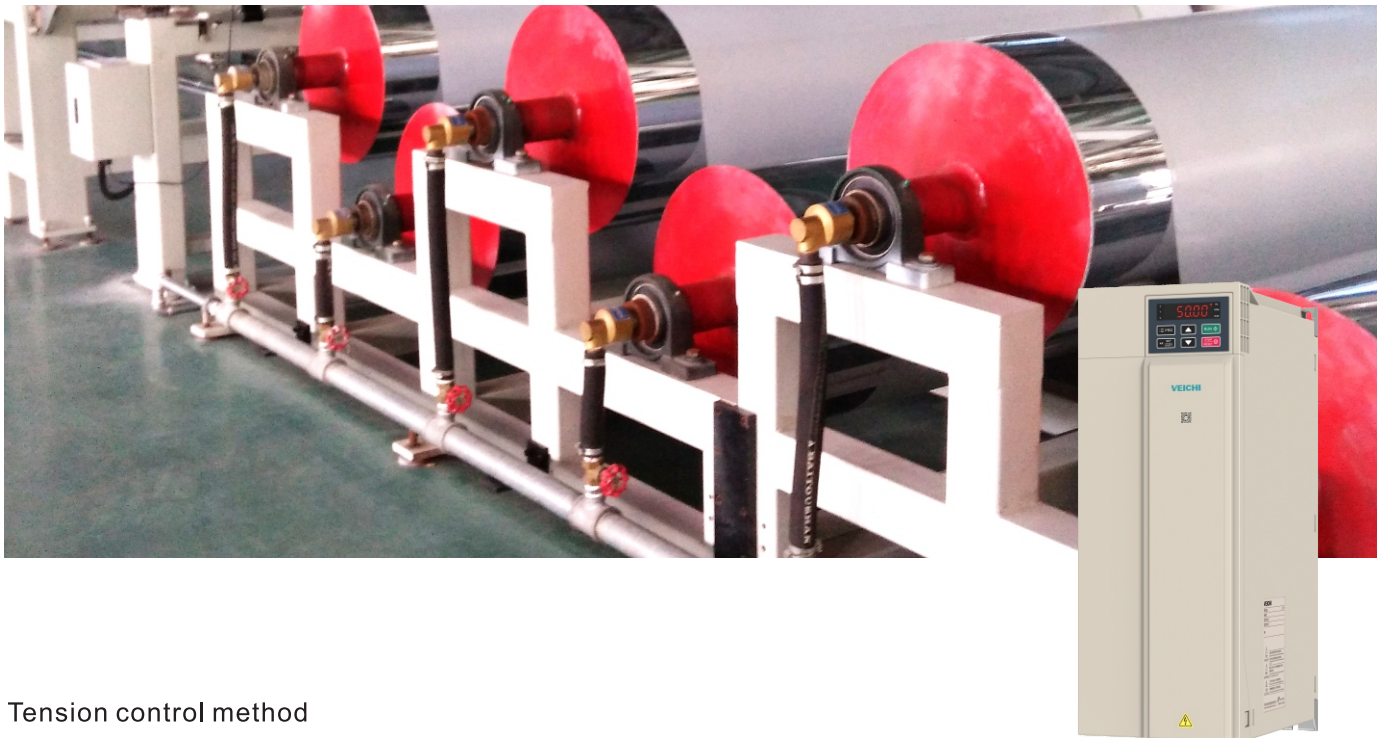
Industry Application

Widely used in many industries such as automatic production lines, food packaging lines, logistics equipment, fans and pumps



AC310 Tension Control Dedicated VFD

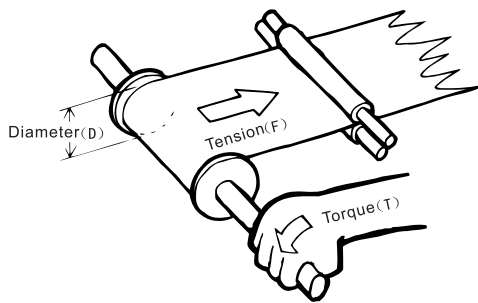
AC220V (Single phase) 0.75~15kW
AC220V (Three phase) 0.75~55kW
AC380V (Three phase) 0.75~710KW



Tension control method

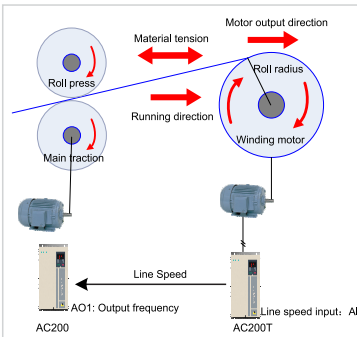
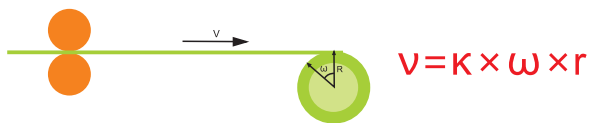
- Speed control: tension position feedback automatically adjusts the PID output speed slip to ensure constant material tension.
- Open-loop tension torque control: no tension feedback signal is required, the inverter directly controls the motor output torque, and the output frequency automatically changes with the linear speed of the material.
- Open-loop tension and torque control: Need tension feedback signal, which is adjusted by built-in PID to form a closed-loop tension adjustment to control the output torque of the motor to make the surface tension of the material constant.

Fundamental



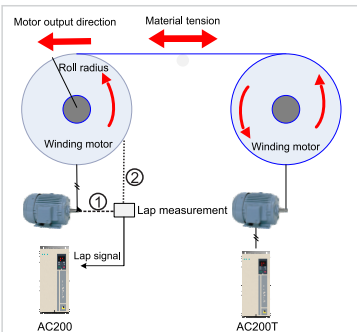
$Torque\ (T) = Tension\ (F) \times Diameter\ (D/2)$
 $Tension\ (F) = \frac{Torque\ (T)}{Diameter\ (D/2)} = \frac{2 \times T}{D}$

Line speed



Line speed application

The front-end machinery provides material traction, which determines the material line speed, and the material tension is determined by AC310 winding. The Roll radius can be calculated by the given linear speed of the traction.



Thickness method application

The front-end machinery does not provide a traction mechanism to determine the line speed. The material line speed is directly determined by the front-end motor, and the material tension is determined by the AC310 winding. The Roll radius of this scheme can be calculated by the lap counting pulse provided by the encoder, or an external lap counting device can be added.

AC200 Series General Purpose VFD

AC220V (Single phase) 0.75~15KW
AC220V (Three phase) 0.75~15KW
AC380V (Three phase) 0.75~710KW



Product profile

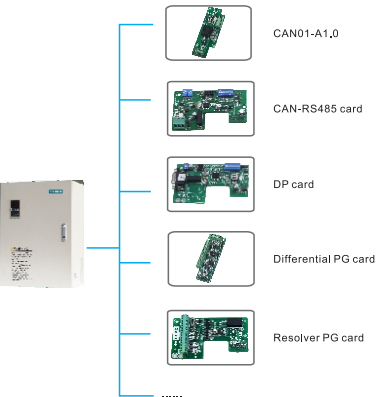
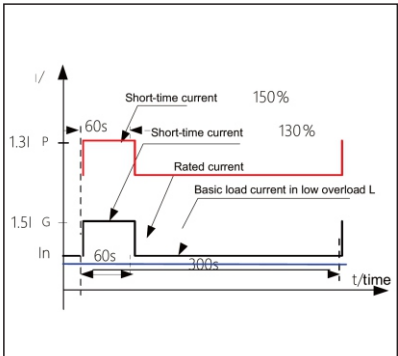
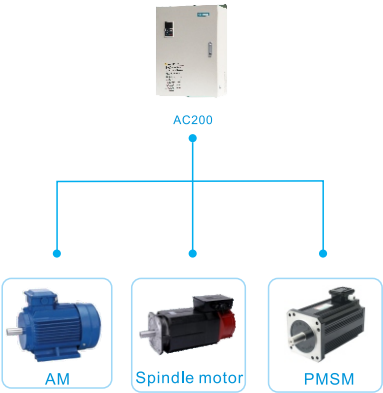
Ac200 series adopts the international leading vector control technology, compatible with asynchronous, synchronous motor control and open loop / closed loop control. It also enhances the reliability and functionality of the product, and strengthens the customer's usability and professional design. The main features are as below:

- 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 optional 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 keep10 sec, 200% rated load keep 0.5 sec



AC70 Series Open Loop Vector VFD

AC220V (Single phase) 0.75~15KW
AC220V (Three phase) 0.75~15KW
AC380V (Three phase) 0.75~710KW

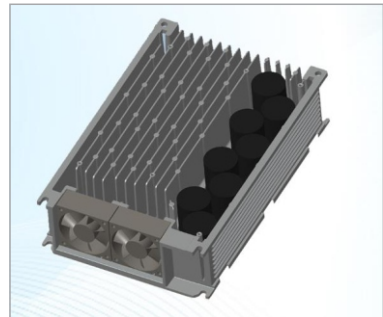


Product profile

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, 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.

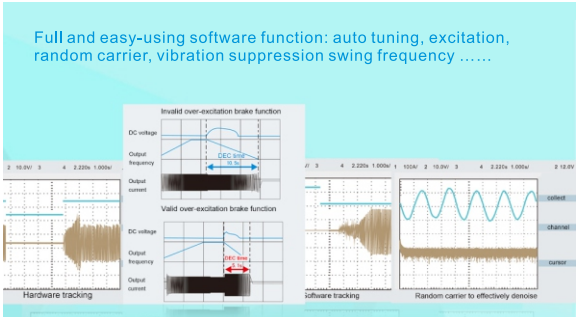
Independent duct design in AC70 Series, effectively prevent contamination of electronic components and improve the protection capability of frequency inverter.



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



Full and easy-using software function ensure effective motor control and meet various application requirements



AC70E Series Mini Type Vector VFD

AC220V (Single phase) 0.75~2.2KW
AC380V (Three phase) 0.75~4.0KW



Product profile

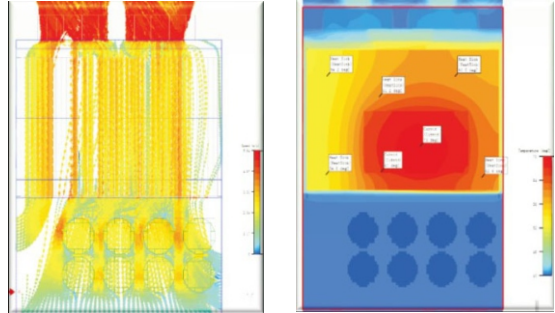
AC70E series products are a mini type frequency inverter developed by our company for small power and low cost market demand, including single phase 220VAC and three phase 380V machine. It is especially suitable for some small power motor, its performance characteristics are as follows.

- Vector control without PG (SVC), V/F 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.

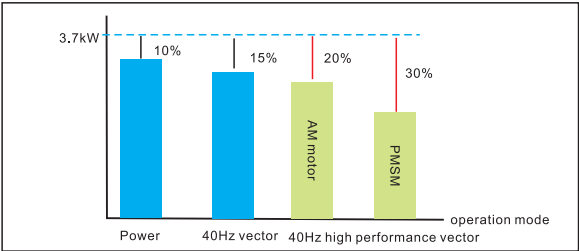
A delicate layout, the size of the palm. Lesser install space



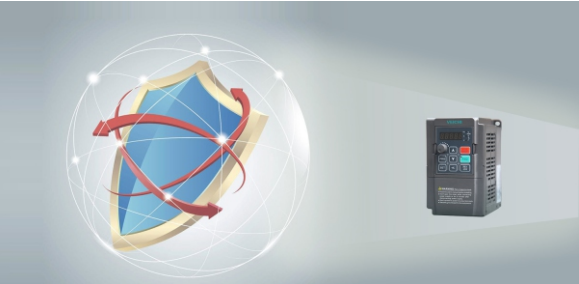
Using advanced and accurate thermal simulation software, the reliability of the whole machine's temperature rise is guaranteed under the premise of reducing the volume.AC70E mini type vector VFD



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 ,OH protection ; support pre-alarm, alarm in advanced and remains running



Servo and Motion Control

High precision and fast response, we are committed to providing better products for China's manufacturing of "2025"



SD600 series economic type servo system



SD700 series high performance servo system



VC series PLC



VI120 series HMI

Servo and Motion Control



HMI



VC series PLC



Servo drive



Servo motor



SD700 Series High-Performance Servo System

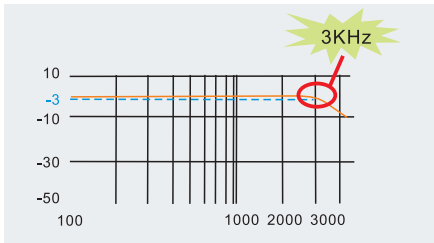
Power range: 50W-200KW



Special features

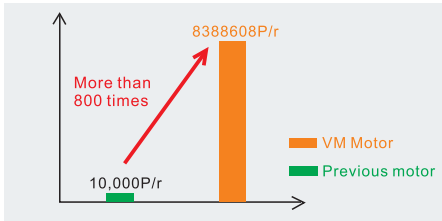
3KHz response bandwidth in speed loop

Effective enhance speed loop bandwidth, minimize tuning time to 1 ms through special current loop algorithm , increase productivity



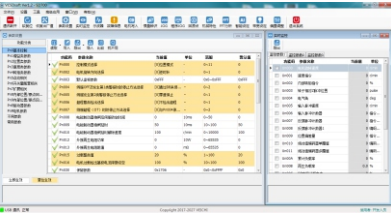
23-bit absolute encoder

Adopted the top-level 23-bit absolute encoder in industry, up to 8388608 pulses per turn, communication speeds up to 4Mpps



Powerful host pc software

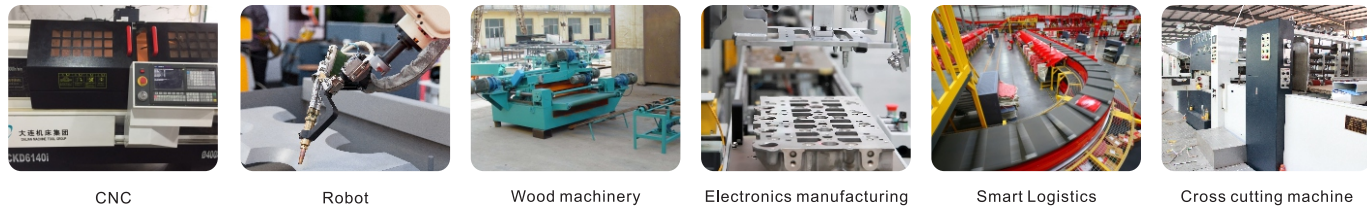
Free installation of debugging software USB communication between drive and PC, easy to use



Specification

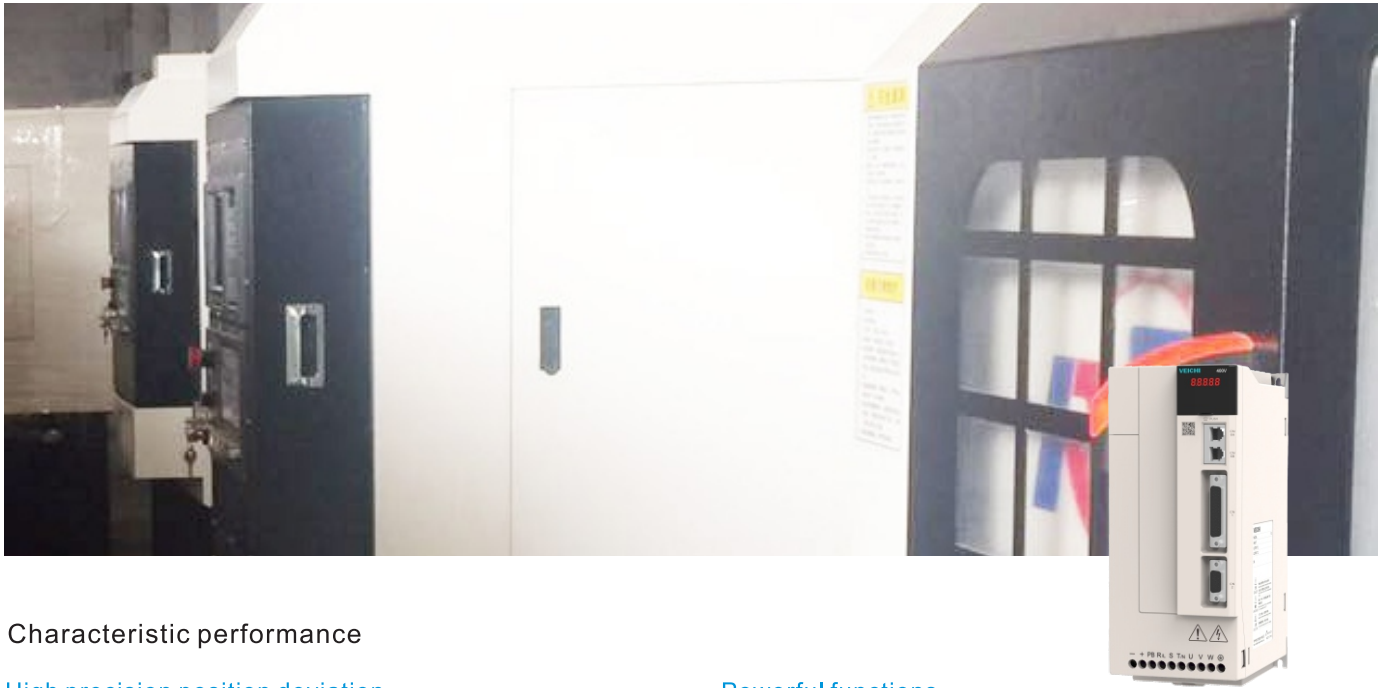
SD700-□□□ Servo drive model	1R1A	1R8A	3R3A	5R5A	7R6A	9R5A	3R8D	6R0D	8R4D	110D	170D	240D	300D
Voltage class	Single phase 220V			Three phase 220V				Three phase 380V					
Servo motor power class (KW)	0.1	0.2	0.4	0.75	0.85	1.3	0.85	1.3	1.8	2.9	4.4	5.5	7.5
Mounting dimension (frame)	40	60		80	130				180				

Application



SD500 Series Spindle Servo Drive

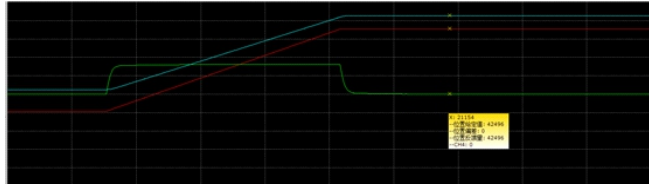
Power range: 4kW~37kW



Characteristic performance

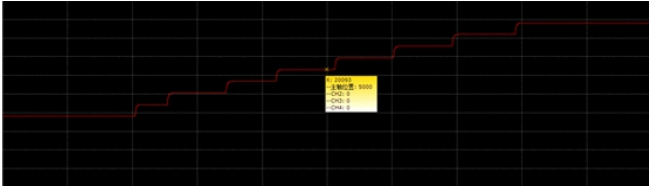
High precision position deviation

The position control deviation can be as small as 0 pulses



Powerful functions

Combines position control, speed control, torque control; asynchronous motor/synchronous motor, V/F, open-loop vector, closed-loop vector control; multiple pulse setting methods; inertia identification, loop parameter self-tuning; 8 points Exact stop control; position swing; zero point one-key setting; PID control and other functions to meet a variety of needs.



Comprehensive interface

- 6 switches + 1 high-speed switch input
- 2 collector outputs + 2 relay outputs
- Equipped with 5V, 10V, 24V external power supply
- 2 encoder inputs + 1 arbitrary frequency division differential output
- 1 bipolar analog input + 1 unipolar analog input + 1 analog output

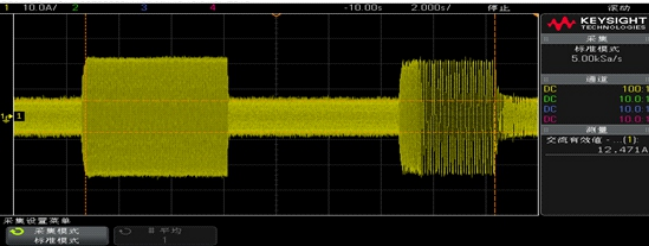
Reliable protection

With ground short circuit protection, input/output phase loss protection, encoder disconnection protection, overcurrent protection, overvoltage protection, overload/light load protection, motor overheating protection and other protection functions.



Superior system performance

- Perfect current vector control algorithm
- Wide range of speed regulation and small speed fluctuation at super high speed
- Safe and reliable hardware equipment
- Position control responds quickly and has high precision
- Good frequency conversion energy saving control
- Accurate torque control and stable output
- Big torque at low frequency, stable speed
- Good dynamic and static response control



VC Series PLC



VEICHI PLC is divided into several series of single module type, general-purpose type, bus-type, high-performance type, motion control type and industrial Ethernet type.

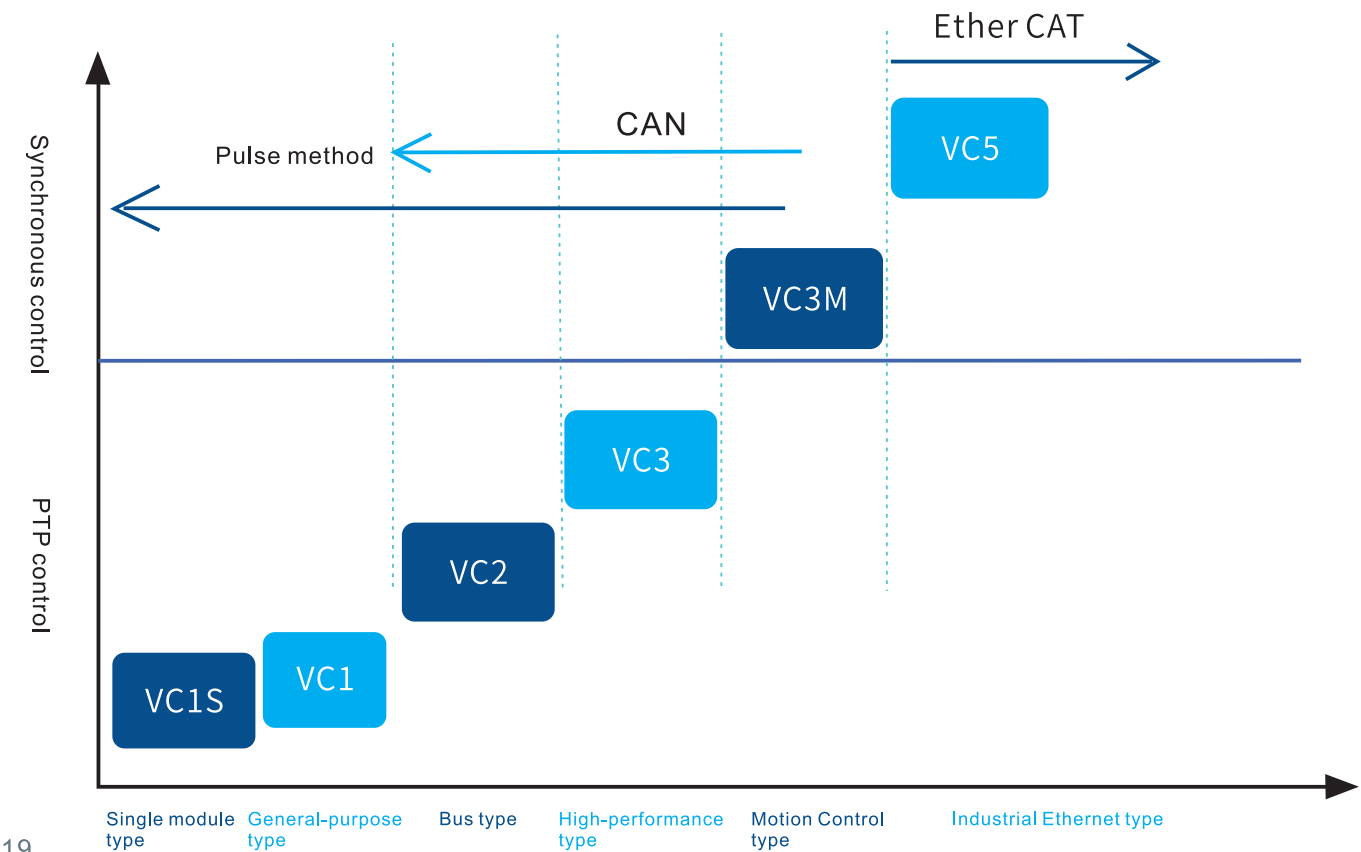
VC1 and VC1S are designed for the high cost-effective applications of logic control below three pulses;

VC2 is designed for applications based on the CANOpen bus control;

VC3 is designed for applications of multi-channel pulse control;

VC3M is designed for the pulse-based motion control;

VC5 is designed for industrial Ethernet applications based on the EtherCAT protocol.



VI20 Series HMI



Product overview

VEICHI VI20 series, a new generation of Internet of things man-machine interface, industrial ABS plastic shell, low cost, high reliability; new mold opening, using more practical downward outlet way; redesigned front face; higher resolution models are available.

By selecting the link IOT module, you can immediately upgrade to the IOT man-machine interface and enjoy a complete industrial IOT cloud platform service.


	Model	VI20-070S-F	VI20-070S-FE	VI20-101S-F	VI20-101S-FE
Hardware parameters	Display	7" 16:9 TFT LCD screen		10.1" 16:9 TFT LCD screen	
	Resolution	1024×600			
	Color	24 bits			
	Brightness	350 cd/m²		400 cd/m²	
	Backlight	LED			
	LCD life span	50000 hours			
	Touch screen	4-wire industrial resistance touch screen			
	CPU	600MHz ARM Cortex-A8			
	Memory	128M Flash + 128M DDR3			
	RTC	Real time clock built in			
	Ethernet	One channel 10m / 100m adaptive		None	One channel 10m / 100m adaptive
	SD card	Support		None	Support
	USB port	1 USB Slave 2.0 port□1 USB Host 2.0 port			
	Program download method	USB Slave/USB flash disk/			USB Slave/USB flash disk/Ethernet
Serial communication port	COM1:RS232/RS485/RS422	COM1:RS232/RS485/RS422	COM1:RS232/RS485/RS422	COM1:RS232/RS485/RS422	
	COM2:RS485	COM2:RS485	COM3:RS232	COM2:RS485	
	COM3:RS232	COM3:RS232		COM3:RS232	
LCD viewing angle□T/B/L/R□	85'/85'/85'/85'				
Electrical specifications	Rated power	<10W			
	Rated voltage	DC24V , Working range DC 9V~28V			
	Power protection	Lightning surge protection			
	Power loss allowed	<5ms			
	CE & RoHS	According to EN61000-6-2:2005□EN61000-6-4:2007			
		According to RoHS lightning surge ±1KV, Group pulse ±2KV			
Electrostatic contact 4kV, air discharge 8kW					
Mechanical index	Protection level	The front panel conforms to IP65 (installed with flat panel cabinet), and the rear shell conforms to IP20			
	Mechanical structure	Engineering plastic			
	Opening size	192mm×138mm		260mm×202mm	
	Overall dimensions	204mm×145mm×33.8mm		273mm×213mm×36mm	
	Overall weight	About 560 g		About 890g	About 920g


Integrated Dedicated Machine Industry Driver

Innovation Comes from the Industry and Serves Thereof





Photovoltaic pump driver


Construction lifting integrated machine


Tower crane frequency conversion machine


Air compressor dedicated drive


High-power electro-hydraulic servo driver

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, black 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

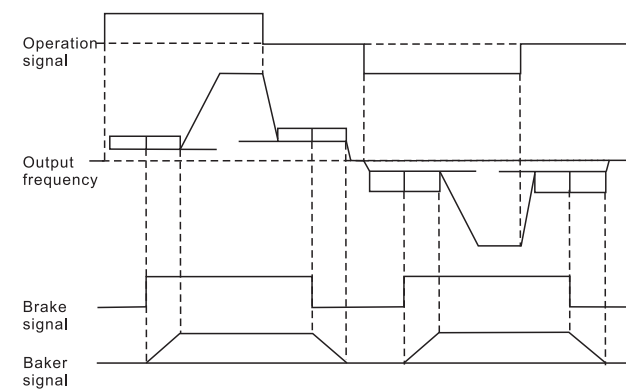
Used for providing clean water in remote areas where power facilities are scarce. The controller can convert the DC of the PV array to AC and drive various pumps.

S200 Series Construction Elevator Integrated Control System



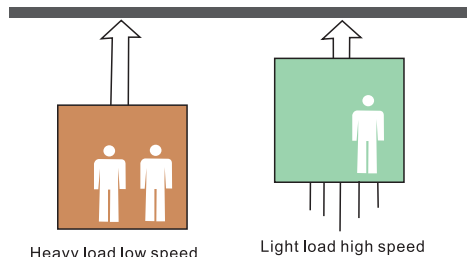
High safety, redundant brake circuit software and hardware design

- Adopt dual signal, dual brake, high safety redundant control design.
- Before opening the brake, the running system detects the motor torque in real time to provide maximum auxiliary protection against sliding.
- Professional sequential logic brake function to ensure high reliable opening/closing of the brake.



Light load high speed function

When this function is valid, it is calculated by the built-in load detection module. When the elevator is in a light load or empty cage state, the inverter will speed up and enter the Weak magnetic region (constant power). Effectively improve the carrying capacity of construction elevators.

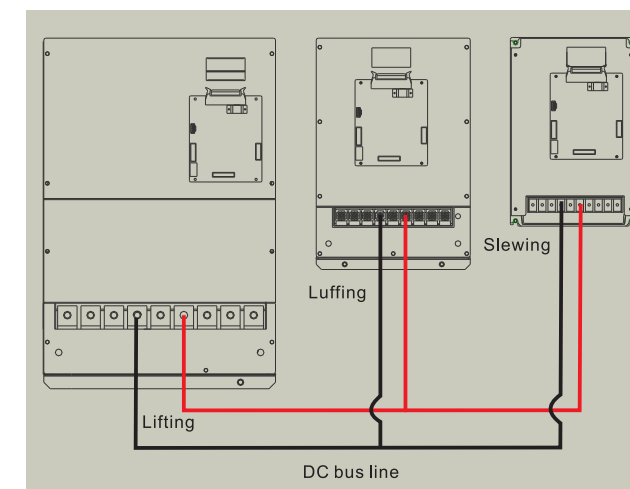


QT Series Tower Crane Integrated Drive



Built-in common DC bus technology (multi-machine transmission)

When the lifting mechanism is dropping the heavy object, the energy returned from the motor can be used for slewing and the luffing mechanism, thereby achieving the purpose of energy saving.

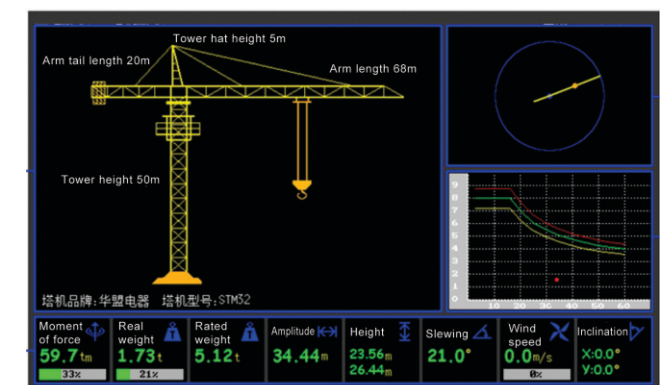


Slow motion function (closed loop mode)

- When the linkage switch is set to the "slow motion" gear, the lifting mechanism is limited to a speed range of 0.1-0.5m/min at this time.
- The inverter is required to continuously output a constant torque at ultra-low frequency.
- Suitable for slow motion of PC assembled building template, butt joint, Structural docking.

Tower crane black box function (expandable)

Compatible with GPS and Beidou satellite precise positioning, real-time recording of tower crane operation status, overload times and real-time data, local storage, and upload to Internet of Things platform at the same time.



Light load speed-up function

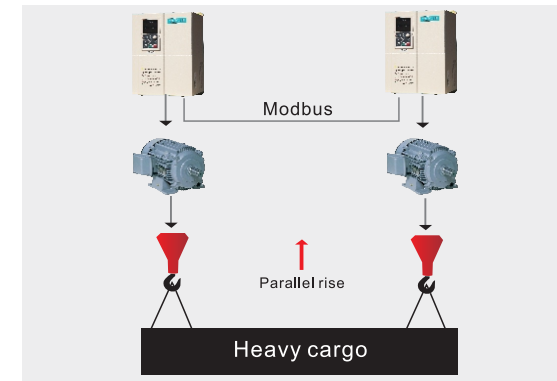
- When the empty hook or light load, the lifting mechanism will run at a higher speed (1.5-2 times the rated speed), also known as "weak magnetic speed-up".
- Greatly improve work efficiency; especially suitable for working conditions of tower cranes

AC70T Series Lifting Dedicated Frequency Inverter

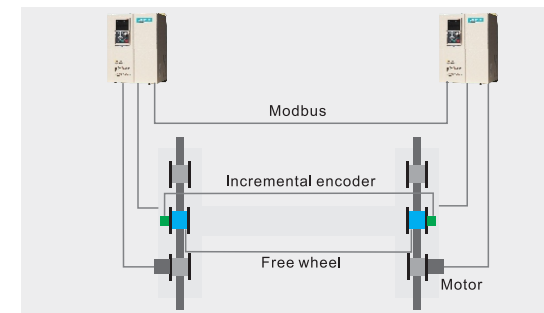


Special features

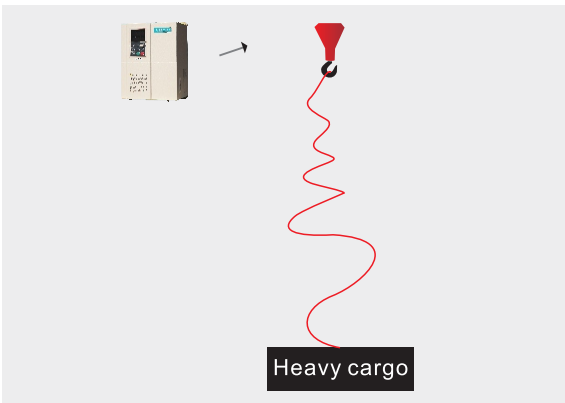
Master-slave speed synchronization control function: When the double hoisting mechanism lifts a heavy object at the same time, then it can ensure that two hoisting mechanisms are synchronously promoted to ensure safety.



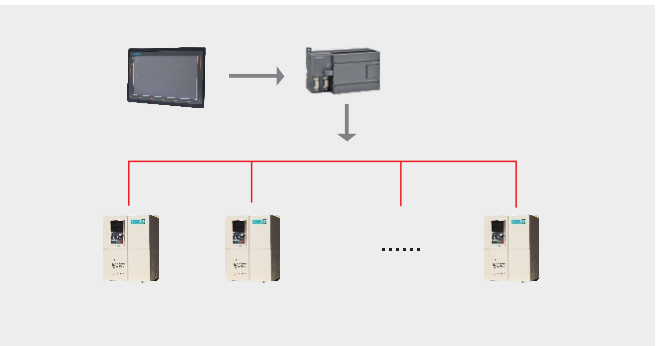
Real-time correction control (closed-loop mode): It is suitable for applications with large spans. The master-slave adopts real-time position correction to meet the synchronous control of the position of the cart (applicable to driving and traveling equipment of gantry crane).



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.



Support Profibus-DP, Modbus and CANopen communication protocol so as to achieve the communication connection between multiple frequency inverter and PLC and HMI.



HVLS FANS DRIVE IN310 series all-in-one machine

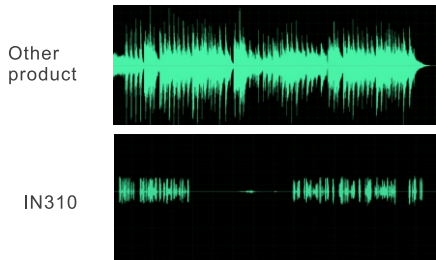


Product Introduction

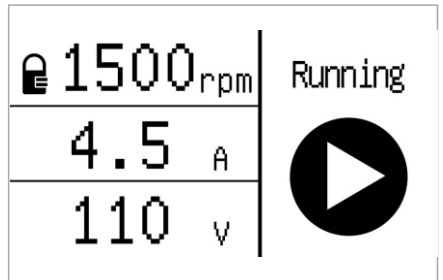
Integrated integration: Various frequency drive, liquid crystal display, rotary switch, digital potentiometer and other related devices. No need for manual assembly, field wiring can be used



The latest noise reduction technology, it can reduce electromagnetic noise during motor operation. Quiet operation creates a quiet environment for fan users.



LCD display content: Current speed, running current, given voltage, running status, fault information, etc.



With IOT function: Real-time monitoring through the Internet of Things (website or mobile phone APP), periodic sampling, remote checking and modification of equipment parameters, real-time positioning and tracking, intelligent location display, etc.



Use waterproof terminal (IP68) for wiring to ensure electrical reliability. Adopt top-in and top-out wiring, convenient wiring, safe and reliable, more practical and beautiful.



Through the potentiometer to achieve "one-key operation": speed adjustment, start and stop, function selection, etc. Use the indicator light to judge the status of speed adjustment, power on and off.



SD650 Series Electrohydraulic Servo System



High energy saving
Electro-hydraulic servo system adopts double closed-loop control of pressure and flow, saving energy by 20%~80%.

High Precision
Multiple control modes of speed loop, current loop and pressure loop to ensure high precision repeatability.

High efficiency
0~100bar Oil pressure response Time 0.04s

Intelligence
Adaptive PID algorithm
Adapt to different equipment conditions

Noise reduction
The noise of the hydraulic system is less than 65dB
Improve equipment usage environment

...



EHS100 integrated servo



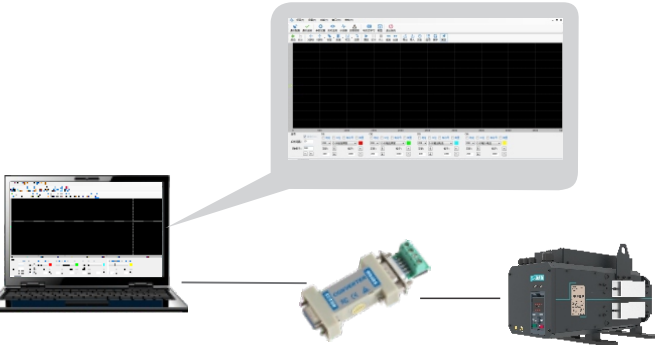
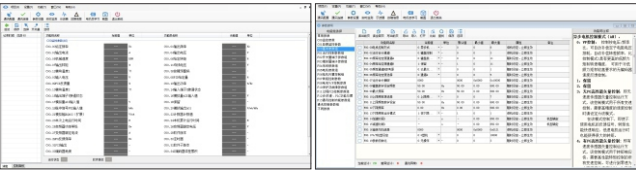
Intelligent temperature control
Dual independent air duct design, with 70,000-hour cooling fan (IP56 protection grade), combined with multi-point temperature monitoring and intelligent control, keep the system in the most suitable temperature area, improve stability and increase the service life of the fan, especially when the system is under low load or standby The effect is obvious under the working conditions.



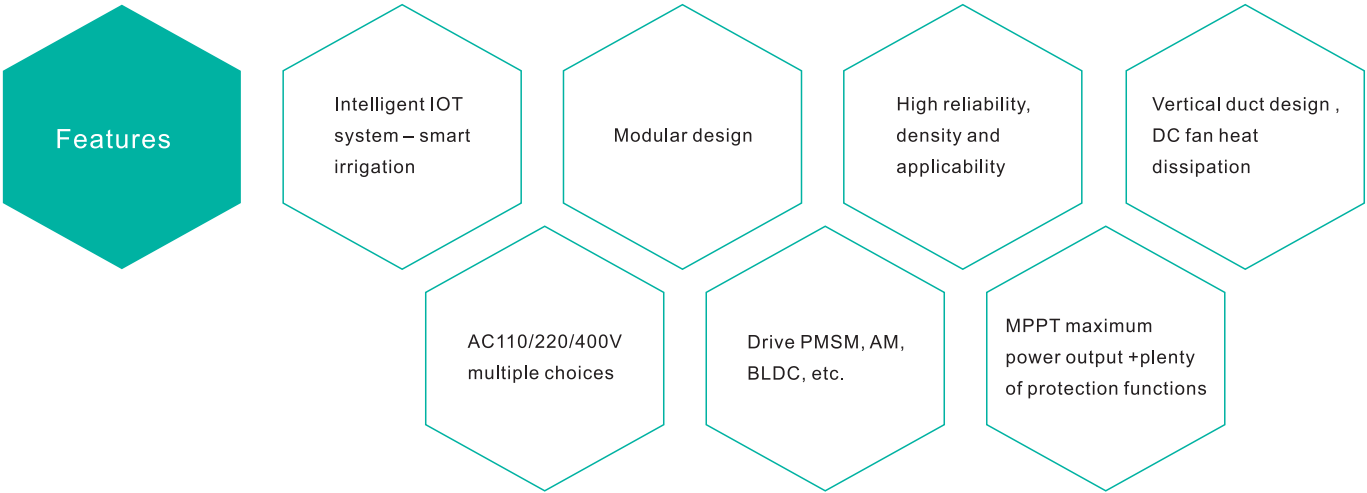
Position closed loop card
All-in-one dedicated position closed-loop card, combined with excellent position control algorithm.
Adapt to various types of position sensors, accept analog signals and pulse signals, suitable for various industries.



Powerful post-monitoring software
EHS100 has user-friendly PC software, easy to operate and configure parameters; users can use VCACSoft Ver1.3 for parameter setting, copying and monitoring in addition to the keyboard operation integrated machine. Even if it is convenient to provide users with all-in-one status information, it provides flexibility for debugging, setting, monitoring and troubleshooting.
The software runs under WINDOWS and exchanges data via RS485 interface or field bus.



SI series solar pump inverter

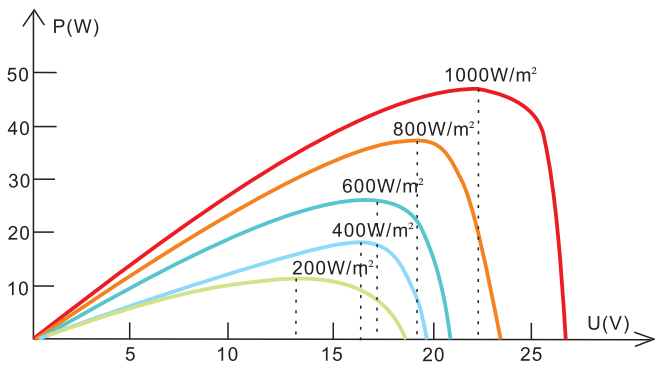


Intelligent Monitoring Brings Smart Irrigation

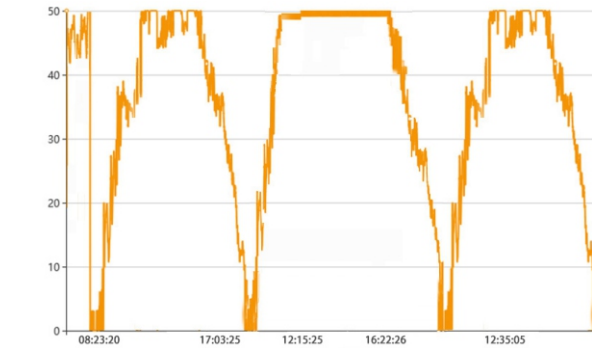
- Integrated online , offline and WIFI function .
- Support wide frequency band for global application .
- Powerful IOT platform , free to manage field equipment .



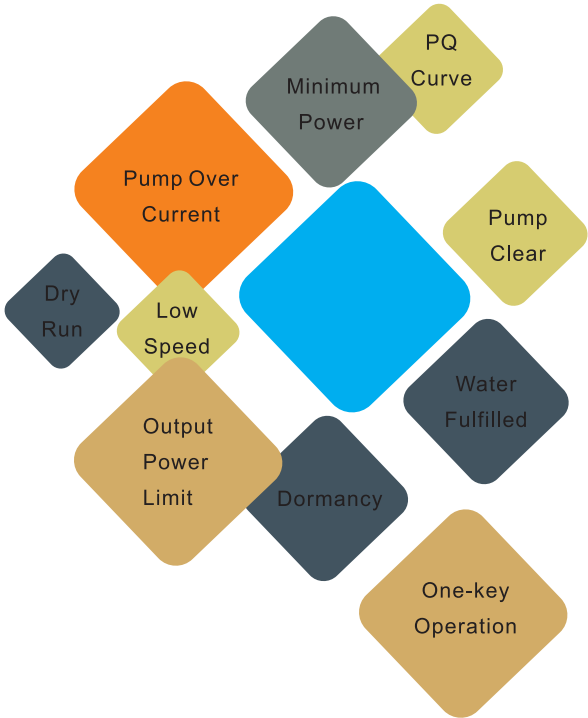
High-efficient MPPT



Unattended automatic operation remote monitoring



Special functions for solar pump



Drive Forever And Perfect Compatibility With Various Motors

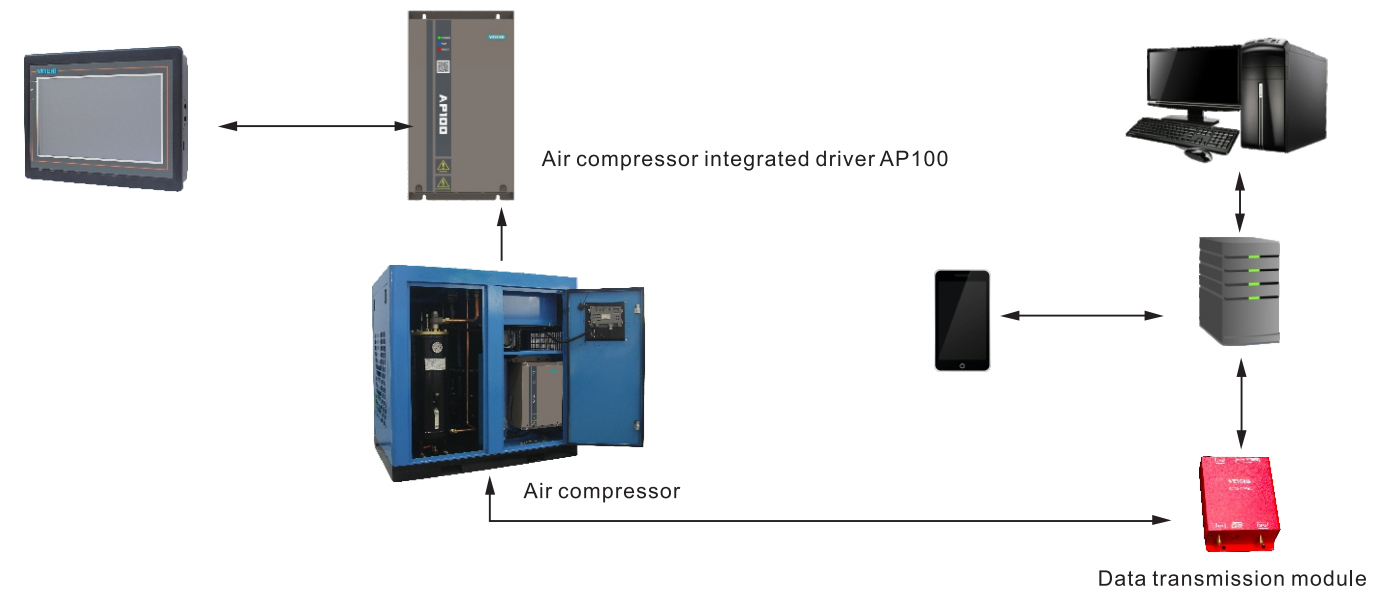
- PMSM Pump : Perfectly driving high-efficiency PMSM pump by open-loop and sensor-less vector control .
- AM Pump : One-key operation at default setting .
- BLDC : Compliantly driving 10A or below BLDC pump .



Air Compressor Integrated DriverAP100



Air compressor industry integrated machine solution



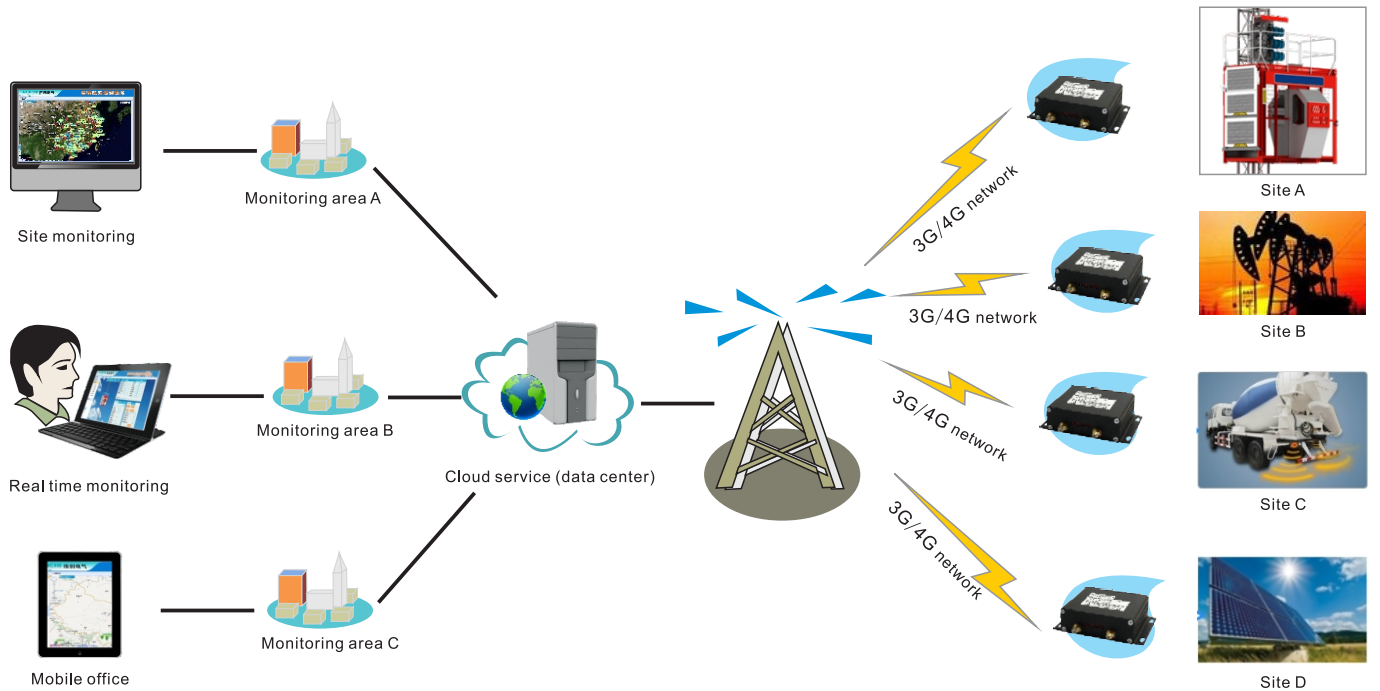
Applications



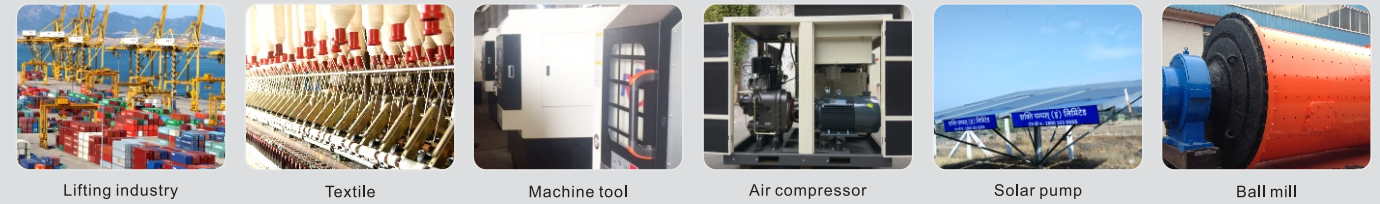
Remote Transmission Module



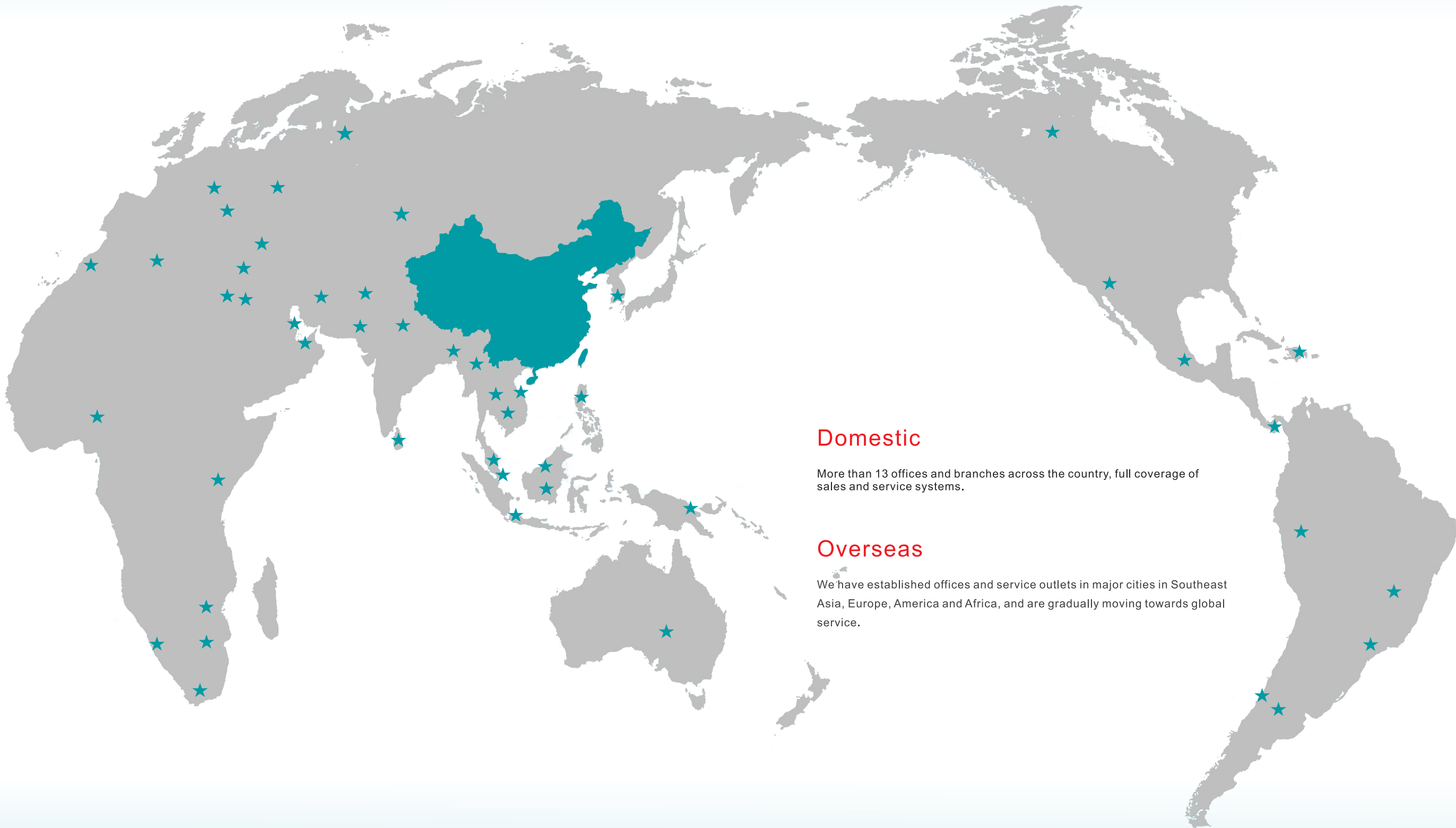
Data transmission program



Applications



Market and Sales Area



Domestic

More than 13 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.