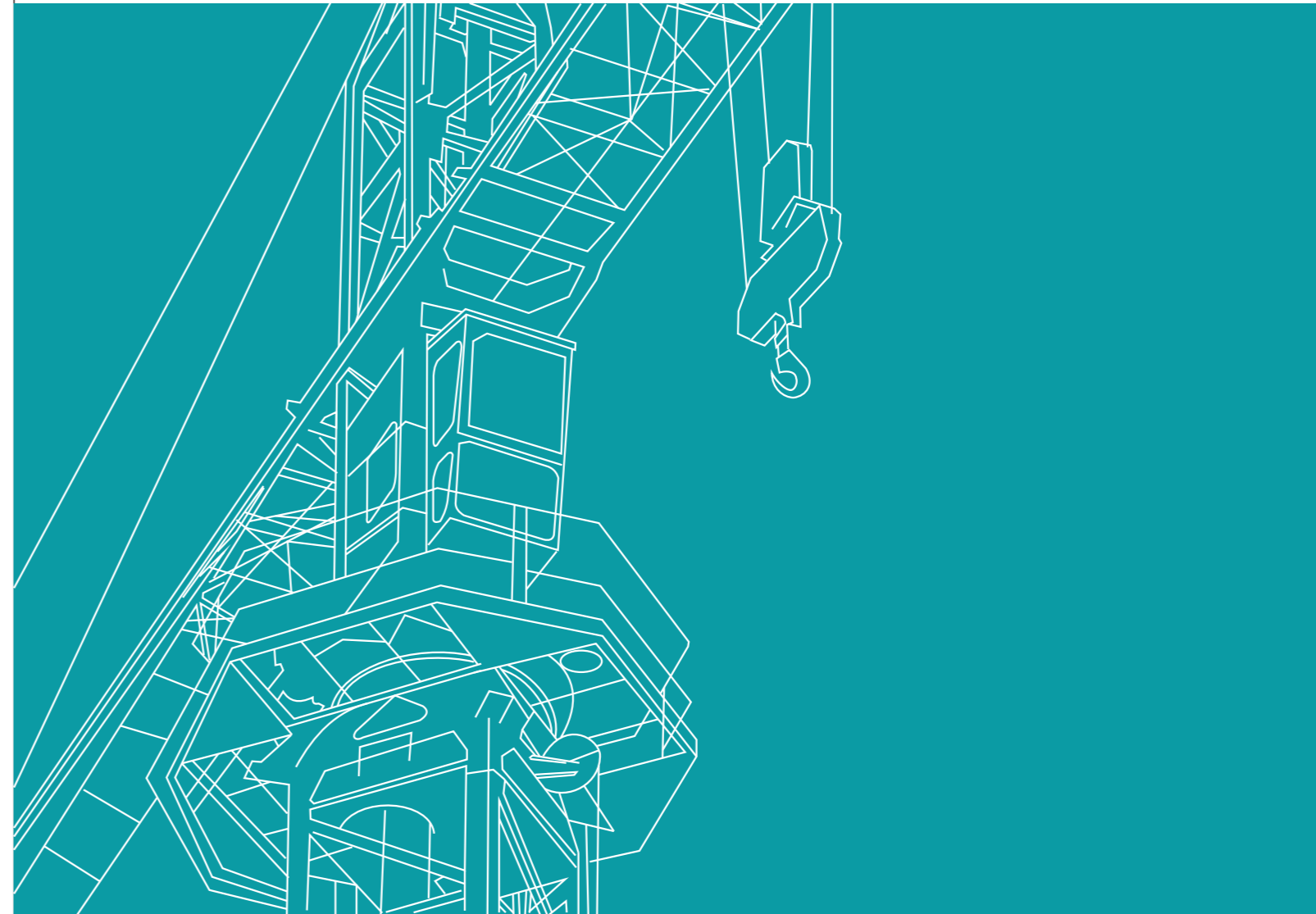


VEICHI

Crane Solution



VEICHI

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Company Profile

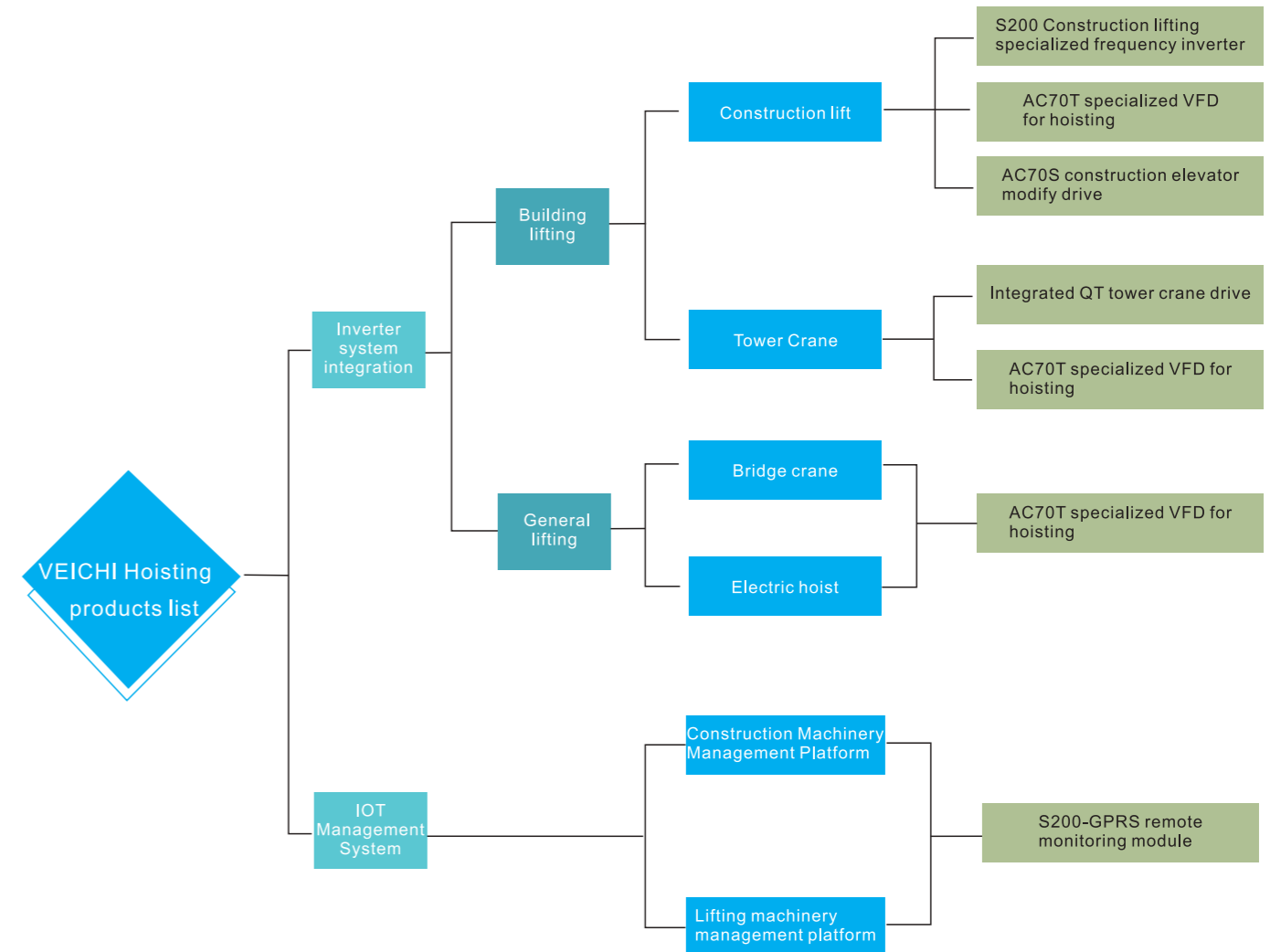
Veichi Electric, been listed as the provincial advanced unit of Jiangsu province and a frontrunner in Electric Drive and Industrial Control, is a national high-tech enterprise with the ability of R&D, manufacturing and selling of industrial automation products since its establishment. The headquarter is located at Suzhou, Jiangsu province, we also have operation centers in Shenzhen, China and Ahmedabad, India. Now our business has covered many countries and regions with the mission of providing customers worldwide with competitive, safe and reliable products and services.

After years of self-dependent research and innovation, we have developed a series of patented technologies with independent intellectual property rights. Up to December 31, 2019, a total of 91 patents have been authorized, including 15 invention patents, and 29 patents are under application, including 19 invention patents. Besides, 54 software copyrights have been authorized.

We supply a wide range of products, including inverters from 0.4kW to 1,200kW, servo systems from 50W to 55kW, motion controllers, PLC and HMI, etc., to diverse customers in lifting and mining facilities, rail transportation, machine tools, compressors, plastics, photovoltaic pumping, building materials, robots or manipulator, printing and packaging, textile and chemical fiber, metallurgy, municipal administration, petroleum, chemical and other industries.

In the next 10 years, we will strive to adhere to the core value of "market-guided and innovation-driven", and strengthen the core business of inverters, servo systems and motion controllers, and intelligent cyber systems. Moving on offering excellent products and efficient services constantly, the company will spare no effort to make contributions to promote the development of electric drive and industrial control.

VEICHI Hoisting products list



Construction lifting specialized frequency inverter

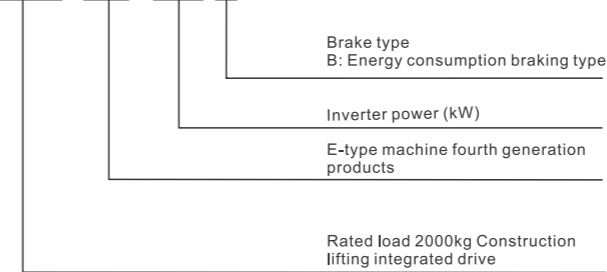
Product overview

Construction lifting integrated drive, it is an integrated system specially developed for the principle of electrical control of construction lifts. It integrates frequency conversion control units, logic control units, lifting weight limiters, brake units, etc. it has the advantages of perfect functions, stable performance, easy installation, and elegant appearance. Providing customers with comprehensive high-performance, safe and reliable solutions.



Naming rules

S200-E4-037B

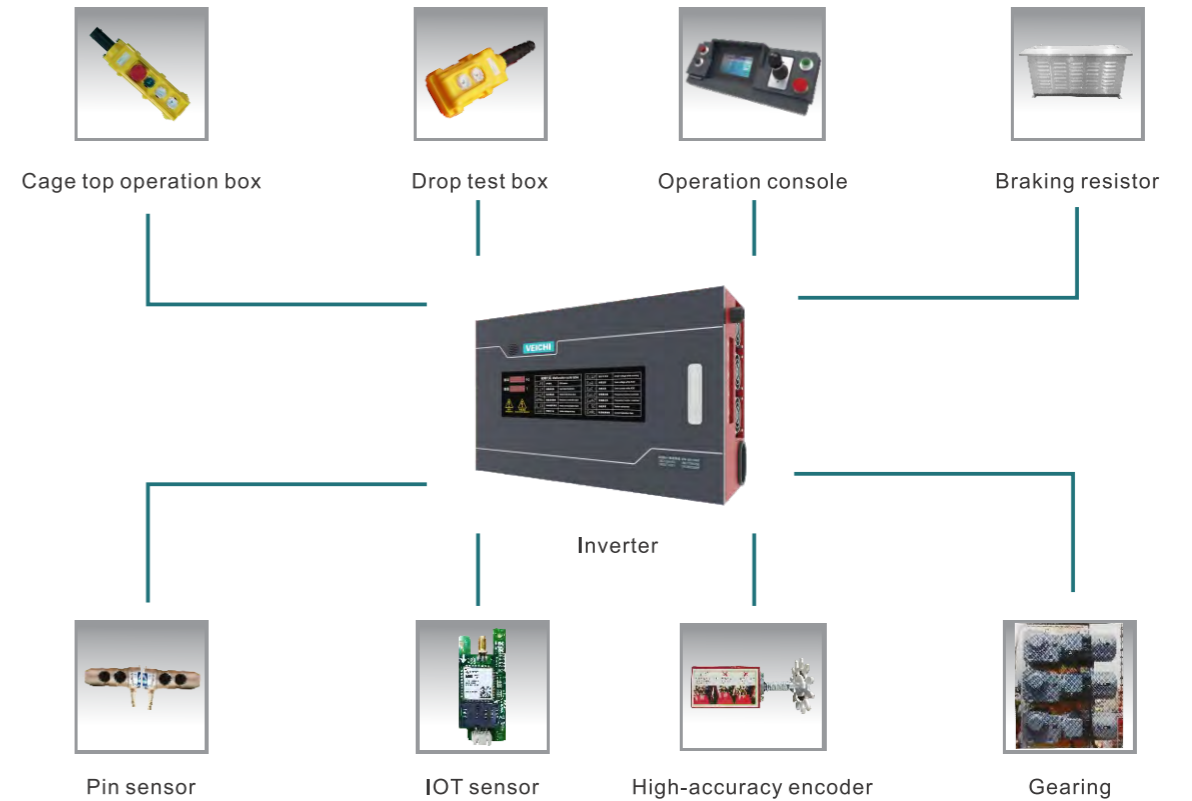


C4/E4 Series specification model

Model	Power	Rated current(A)	Suitable motor power
S200-E4-037B	37KW	75	11KW*3/15KW*2
S200-E4-045B	45KW	90	13KW*3/22KW*2
S200-C4-037B	37KW	75	11KW*3/15KW*2
S200-C4-045B	45KW	90	13KW*3/22KW*2



System components



Product features

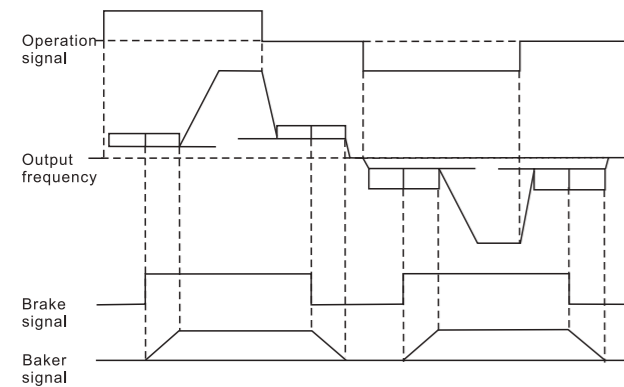
Intelligent voice broadcast prompt function

- Real-time voice broadcast of various fault information and main command, limit, emergency stop status; can accurately and quickly recognize the fault
- With Chinese and English broadcast mode for customers to choose.



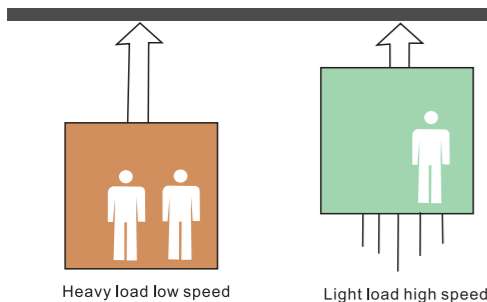
High safety, redundant brake circuit software and hardware design

- 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.



Intelligent state selection

Various limit positions can be displayed, the running status of the main command is clear at a glance, and maintenance is more convenient.

Limit Protection Signal											
Feedback	制动反馈	停止	超速	超速	超速	超速	超速	超速	超速	超速	超速
X11 COM	X12 COM	X13 COM	X14 COM	X15 COM	X16 COM	X17 COM	X18 COM	X19 COM	X20 COM		

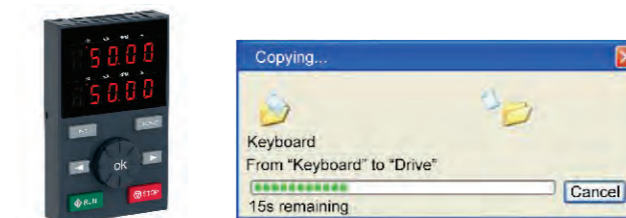
Human-machine interface information interaction system

- The friendly man-machine interface can display the current floor, current height, current load, running direction, running speed and other information.
- Automatic leveling operation interface: leveling accuracy $\leq 2\text{mm}$; convenient storage of floor position.



Keyboard storage and parameter copy function

The keyboard operator can store the entire set of parameters of the elevator, and realize batch download and copy of the parameters.

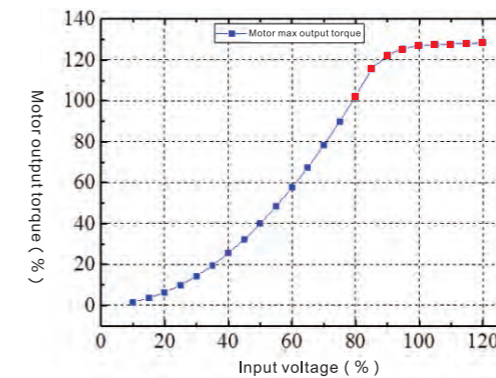


Automatic test function

When this function is valid, the system can enter the automatic cycle test mode, which greatly saves the debugging time before leaving the factory and improves the delivery efficiency.

Variable speed function with voltage function

- When this function is valid, when the elevator is running, the external voltage is reduced, resulting in insufficient output torque of the motor. At this time, the system automatically reduces the output frequency to meet the output torque requirements of the motor, to avoid sliding caused by insufficient torque.
- Wide voltage range: Ensure normal operation of input voltage within $\pm 20\%$.



Relationship between input voltage and output torque

Soft limit protection function

- Soft limit protection function
- Accurate feedback of the real-time position of the cage through a high-precision encoder; even when the upper and lower limit positions and the deceleration limit are abnormal (the adhesion cannot be disconnected normally), it can ensure that the lift does not appear to top punch and squat bottom.



Deceleration optimization function

(Applicable to construction elevators without conditional installation of deceleration limit switches) When this function is enabled, the built-in stop algorithm is effective; to ensure that the equipment can also stop accurately during normal operation.

Brake braking torque detection function

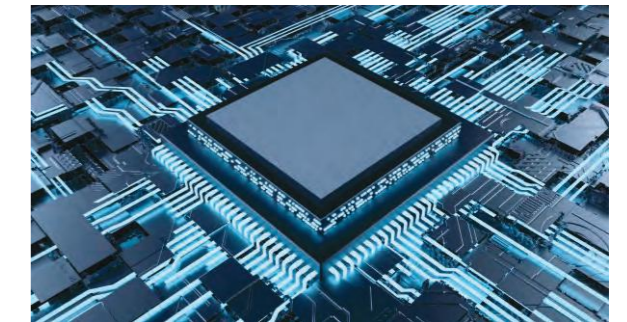
Maintenance personnel can be reminded to regularly check the equipment brake assembly to ensure the safe operation of the equipment. Working principle: The motor is in the brake locked state, at this time, 120% of the rated torque is output to the motor. If the shaft end of the motor generates displacement, it means that the brake torque is insufficient, and the system will emit an audible and visual alarm signal; otherwise normal.

Motor real-time self-learning function

Automatically obtain the dynamic parameters of the motor during operation (the stator resistance value becomes larger and the output torque decreases after the motor is heated) to ensure that the motor can output the maximum torque under any working conditions.

Pre-authorization settings

Built-in clock perpetual calendar chip, can accurately set the device pre-authorization time; convenient for users to remotely manage the device.



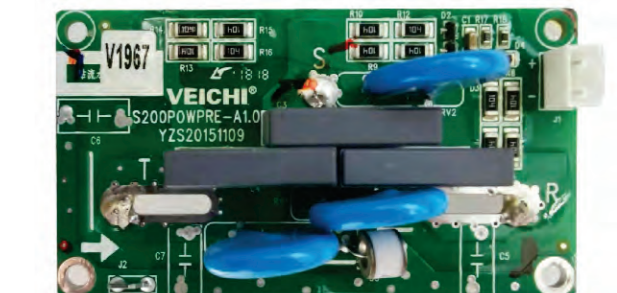
Easy maintenance

The C4 machine design focuses on the convenience of on-site maintenance of the machine. The middle board adopts the right-opening door type; the device is modular; there is no complicated peripheral circuit, ensuring that non-professional maintenance personnel can easily replace accessories.

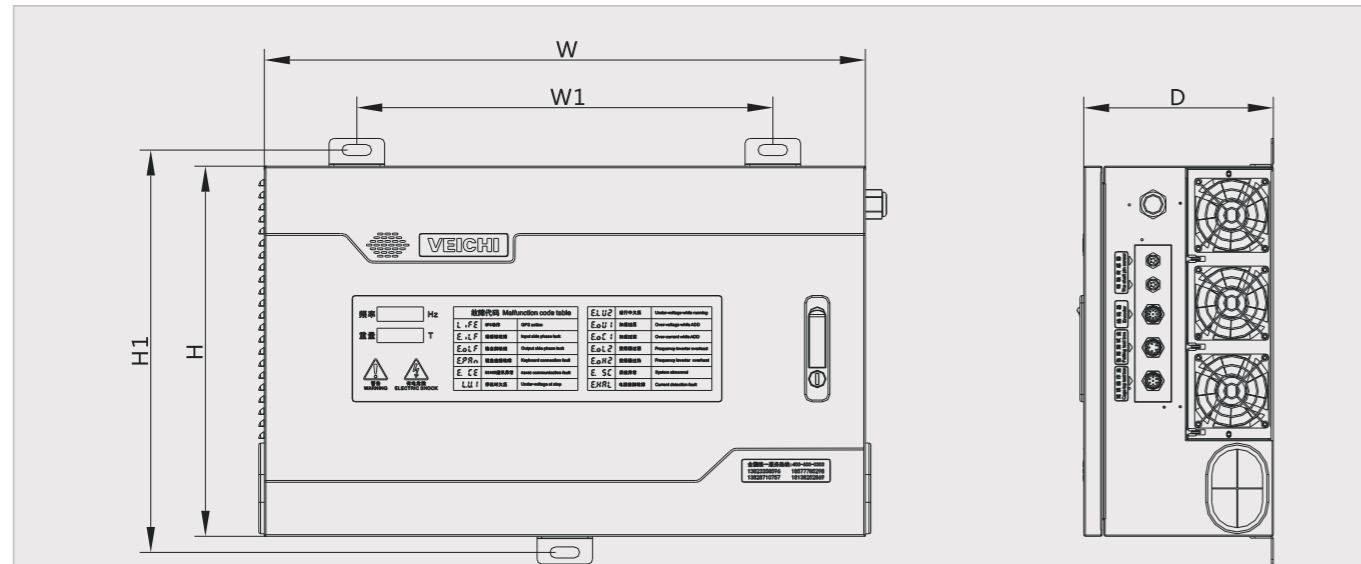


Lightning protection function

The system has a built-in lightning absorption module. Using the industry's advanced gas discharge device to the ground discharge technology, can effectively prevent induction lightning, direct lightning.

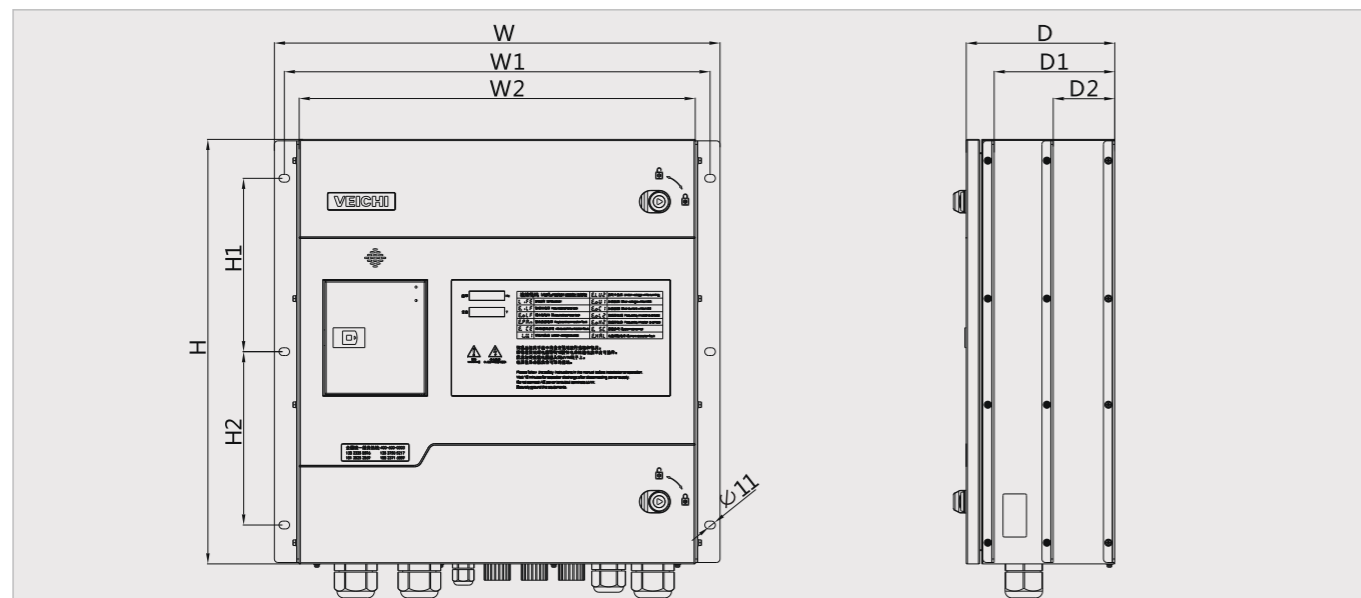


Product dimensions



S200-C4 Installation dimensions

Product model	Outlook Dimensions			Installation dimensions		Installation aperture
	W	H	D	W1	H1	
S200-C4-037B	650	400	205	400	435	∅12
S200-C4-045B						



S200-E4 Installation dimensions

Product model	Outlook Dimensions			Installation dimensions					Installation aperture
	W	H	D	W1	W2	H1	D1	D2	
S200-E4-037B	630	600	210	602	560	245	170	87	∅11
S200-E4-045B									

Accessories

S200-PA200-D Smart console

- Support ID card authority management
The shell is injection molded with high-strength engineering plastics (PC + ABS).
- Friendly human-computer interface-Chinese display fault information and countermeasures
Friendly human-machine interaction interface-Chinese display fault information and countermeasures, as well as elevator operating position, speed, weight, each main command, limit status
- Automatic leveling interface.



S200-PA200-C Embedded console (overseas)

- Suitable for lifts without cab.
- HMI man-machine interface; the operation interface is the same as the intelligent operation console.
- The machine case is made of 304 stainless steel, which is beautiful and durable.



S200-EN-200(HC) High-precision encoder kit

- Using differential long-line driving incremental encoder with strong anti-interference performance.
- The transmission wheel adopts 8 modes and 15 teeth 1: 1 matching.





S200K construction elevator all-in-one machine

S200K series construction elevator all-in-one machine is developed on the basis of automation control, microelectronics technology, wireless transmission and GPS positioning technology. It is a new type of special-purpose elevator without cab for export equipment. It integrates frequency converter, brake unit, brake power supply, logic control, automatic leveling, voice module and GPS transportation diagnosis module and multi-function console are integrated. Especially the console is embedded in the machine.

Product features:

Intelligent status display

Display input and output various limit, emergency stop, master switch signal have clear LED status indication and silk screen mark, which brings great convenience for installation, maintenance and troubleshooting, and effectively reduces the cost of after-sales maintenance.



Built in lifting capacity limiter

Lifting capacity limit protection device, load display can select T or % according to customer demand, One button weighing calibration, simple and fast operation. Comply with safety regulations (with type test certificate of safety supervision department).

Automatic leveling function

Encoder or photoelectric sensor are used to select two schemes, and the special machine for construction elevator is used to form a closed-loop control. Through the encoder or photoelectric sensor feedback current position and target floor position, judge the current floor distance from the target floor position, control the inverter high-speed, low-speed, crawling, running; on the basis of realizing automatic leveling, increase riding comfort.



Redundancy design of logic control circuit for double band brake

The brake circuit design has high safety and reliability. Double logic brake signals control two-way brake contactor respectively. When the contactor is stuck or stuck due to mechanical reasons, it can still ensure the safety and reliability of the construction elevator! It is in accordance with GB26557-2011 Safety Specification for construction hoist.

Construction machinery remote management system

It is used for satellite positioning and remote monitoring of construction machinery and equipment, Remote lock and unlock function.

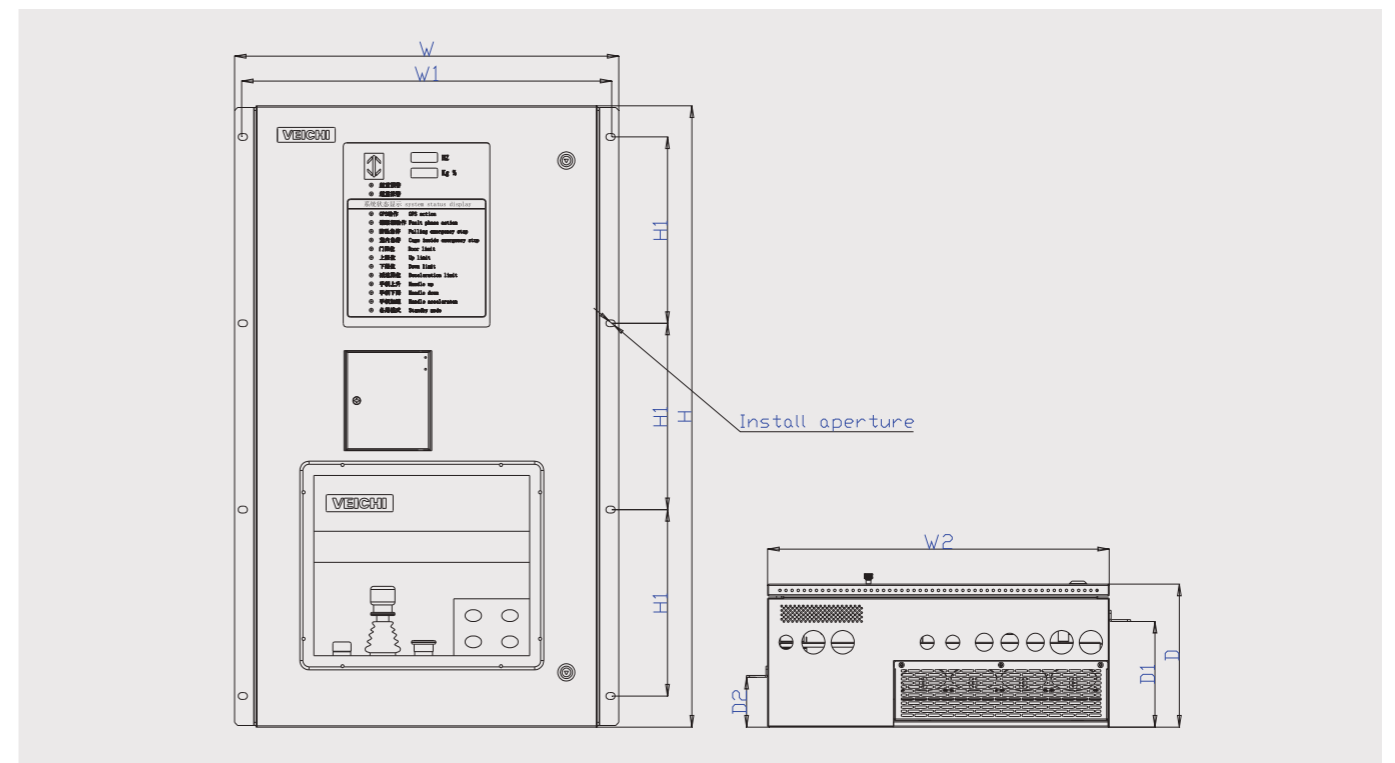


Introduction to function modules



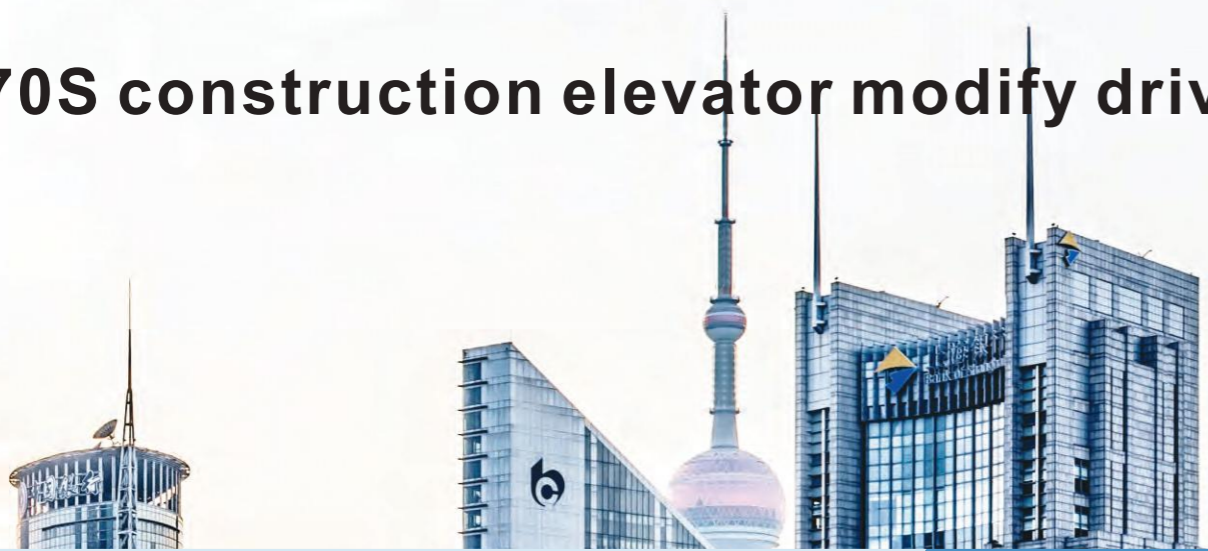
Note: S200K also have light load high speed function, intelligent state selection, lighting protection function and Brake braking torque detection function, please take S200C/E product features description as a reference.

Dimension



Model	W	W1	W2	H	H1	D	D1	D2	Install aperture
S200K-037-B	630	606	560	1000	300	230	170	80	Φ11
S200K-045-B	630	606	560	1000	300	230	170	80	Φ11

AC70S construction elevator modify drive



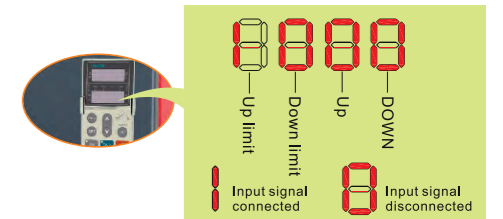
Product overview

A drive with position parking function specially designed for the renovation of old elevators; it integrates frequency converter, brake module and status indicator, which is convenient for on-site maintenance of equipment and minimizes the cost of frequency conversion of construction elevators.

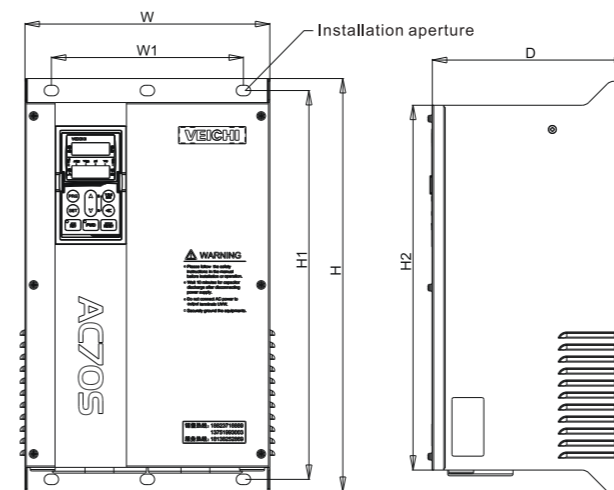


Product Features

1. Safe and reliable-Dedicated brake logic control function, Through the release frequency and release current to reach the release at the same time, to ensure its safety and reliability.
2. High performance-Compared with complete sets of inverters, the price is cheap and the performance is equivalent.
3. Humanized design-no need to change the inverter parameters, As long as the wire is connected correctly, it will run normally after power on.
4. Simple transformation-Simple retrofit-no need to add deceleration limit device, no replacement of operation table; accurate stop at any speed. (Deceleration optimization function).
5. Convenient maintenance-the keyboard operator can display upper and lower limit positions, ascending and descending signals to make it convenient for system maintenance.
6. Extend mechanical life- Stable operation, no impact, reduce the wear of mechanical structure and wearing parts, extend the use time of motor and disc brake; effectively increase the service life of construction elevator.



Product Installation dimension



Drive model	W	W1	H	H1	H2	D	Installation aperture
AC70S-037-B(G1)	255	200	430	405	380	205	∅11

Integrated tower crane drive



SMC glass fiber reinforced plastics cabinet (mold stamping)

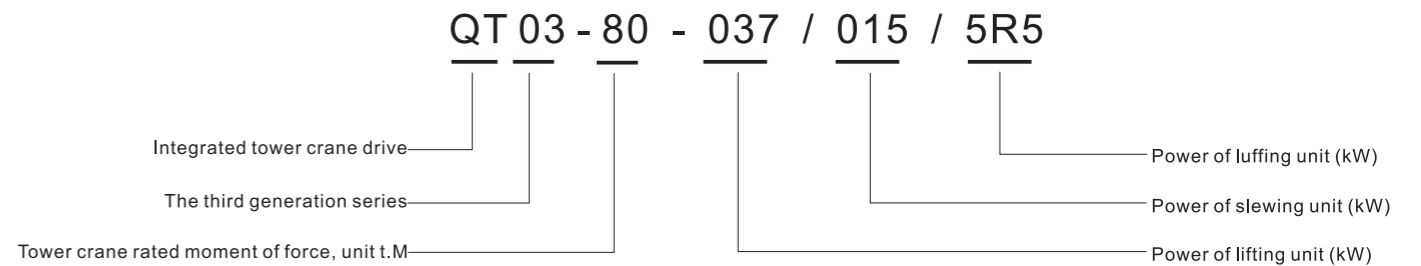
- ◆ Corrosion resistance, Strong aging resistance
- ◆ Impact resistance high strength
- ◆ Fully insulated, Flame retardant and environmental protection
- ◆ Same life as the host machine



Product overview

Industry first- Integrated tower crane drive, a mid-to-high-level model that is specifically designed for the modular control of tower cranes' electrical control needs. It integrates three major mechanisms: frequency conversion control unit, PLC logic control unit, black box monitoring unit (expansion). Tower crane solution. With the characteristics of intelligent, lightweight, high efficiency and energy saving, safety and reliability, the integration of tower crane frequency conversion is bound to be the new trend of the industry's future development.

Naming rules



Specifications

Specifications		Adaptive motor power	Rated power	Rated current	Specifications		Adaptive motor power	Rated power	Rated current
QT03-80-037/015/5R5	Lifting	30KW	Three phase 380V	75A	QT03-250-075/022/011	Lifting	55KW/63KW	Three phase 380V	150A
	Slewing	5.5KW*2		32A		Slewing	7.5KW*2		45A
	Luffing	4KW		10A		Luffing	11KW		25A
QT03-100-045/015/5R5	Lifting	37KW	Three phase 380V	90A	QT03-315-090/022/011	Lifting	75KW	Three phase 380V	180A
	Slewing	5.5KW*2		32A		Slewing	7.5KW*2		45A
	Luffing	5.5KW		13A		Luffing	5.5KW/7.5KW		25A
QT03-160-055/018/7R5	Lifting	45KW	Three phase 380V	110A					
	Slewing	11KW		38A					
	Luffing	7.5KW		17A					

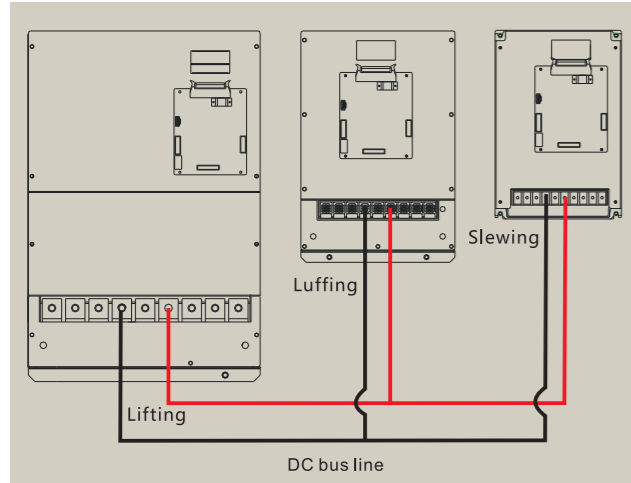
Structure Components



System Features

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.



Intelligent man-machine interface and voice prompt function

- Equipped with 10" touch screen (HMI), it can display various master commands, limit status, inverter monitoring data and related function buttons; friendly man-machine interface, simple and easy to operate.
- The intelligent voice prompt system can cyclically broadcast various fault states and processing countermeasures, operation prompts and warnings through live pronunciation.



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.



Ground remote control operation (optional)

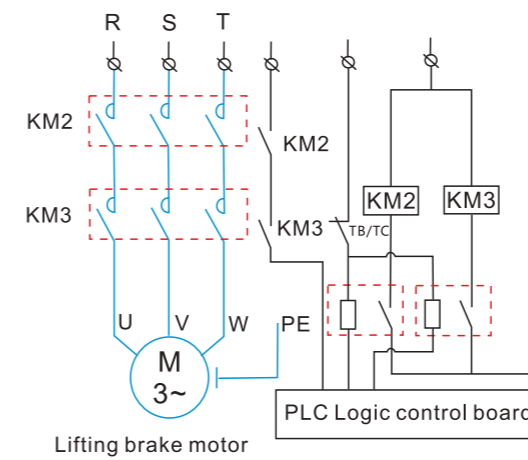
- The driver can use the "local / remote control" selection switch on the linkage platform to give control power to the ground operator for remote control operation, so as to realize the ground wireless control tower crane.
- The system needs to add a set of wireless remote control operator.



Lifting mechanism

Double signal, double holding brake High safety redundant brake control circuit

- The secondary control loop of the hoisting brake is a dual-signal, dual-brake redundancy circuit. That is, the frequency converter sends 2 way brake signals to control two brake contactors respectively.
- Release conditions: Only two brake contactors can be closed at the same time to release the brake.
- Closing conditions: Any one of holding brake contactor disconnected can the brake be closed safely.
- Prevent any one of the brake contactors from sticking, stuck or the residual charge of the coil, which can't be disconnected and cause a slide accident.
- Dedicated brake sequential logic control function to ensure safe and reliable system.



Anti-sliding hovering function

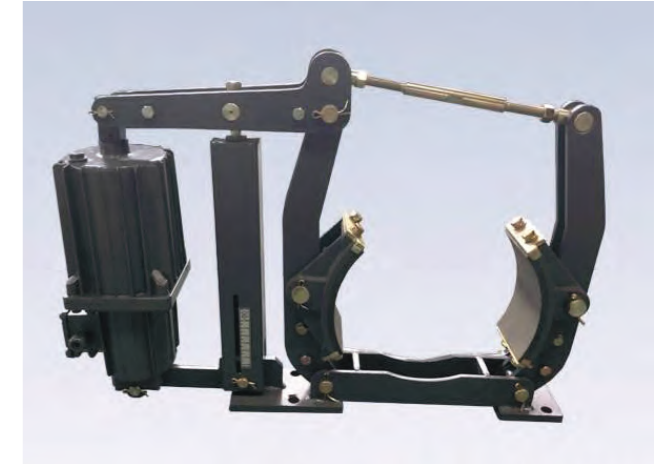
- Working principle: When the mechanical brake system fails, once the motor shows signs of slipping (slight creeping visible on the output shaft of the reducer), this function is activated, instantaneous output of 180% rated zero-speed torque, the motor enters a stable hovering state, and sound and light are detected. The alarm signal also guides the driver to operate the master switch to safely drop the heavy objects to the ground and ascend statically.
- This function has high requirements on the dynamic output response of the inverter, and needs to be implemented in a closed-loop vector control mode with excellent high performance.

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.

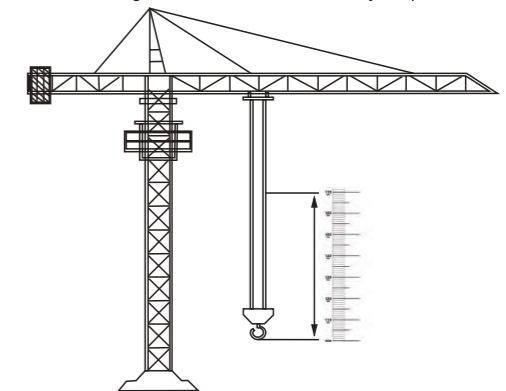
Brake braking torque detection function

Working principle: The brake is in a locked state, and the inverter outputs 180% torque on the motor. At this time, the encoder feedback pulse signal is used to determine whether the motor shaft is displaced. If the displacement exceeds a certain threshold, it means that the brake torque is insufficient and issues audible and visual warning, indicating that the brake needs to be adjusted and replaced.



Lifting at a fixed distance

Tower crane lifting fixed distance function, The driver only needs to set the distance values of lifting, ascending and descending on the touch screen. At this time, the driver operates the master handle and the hoisting only runs within the set range. When the set range value is reached, the hoisting mechanism automatically stops.



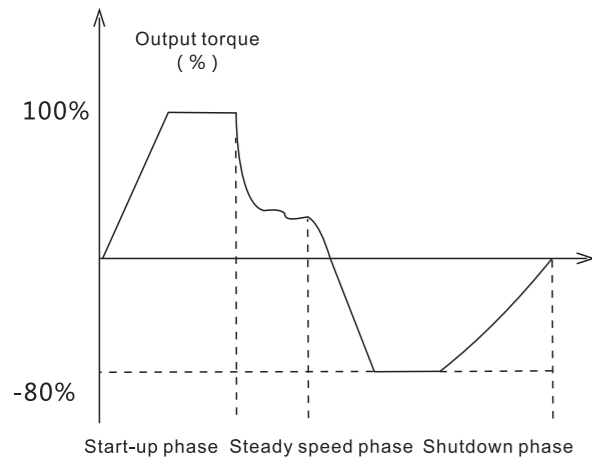
Light load speed-up function

- 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

Slewing mechanism

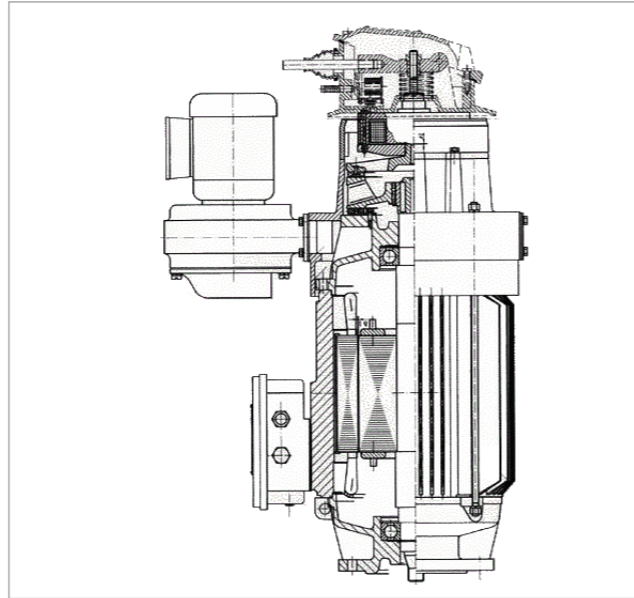
Slewing DTC torque control function

- Adopting advanced DTC torque control method, no eddy current system is needed. Combining the advantages of speed control and torque control, it perfectly solves the typical problems such as uneven speed of the low-speed gear of the tower crane's slewing; rebound during shutdown, and difficult to run against the wind.
- It is recommended that the slewing motor install the encoder with the best effect (the double slewing mechanism should ensure that one of the motors has an encoder installed).



Wind indicator control system

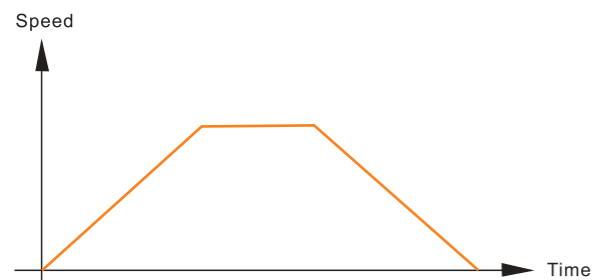
The system is equipped with a set of perfect control system of wind indicator. Users only need to connect the wind indicator coil and action limit signal to use it, which is simple and convenient.



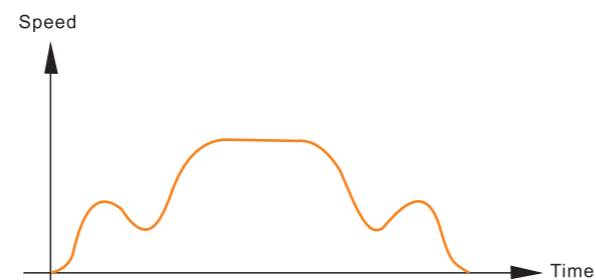
Luffing mechanism

Luffing anti-shake function (Sensorless open-loop anti-shake)

- Modeling based on the pendulum principle; introducing parameters such as sling length and swing angle to form a set of automatic anti-sway core algorithms.
- The frequency and acceleration/deceleration time of the inverter can be adjusted dynamically to suppress the swing. When the object reaches the set position, the swing is greatly reduced or stopped automatically.

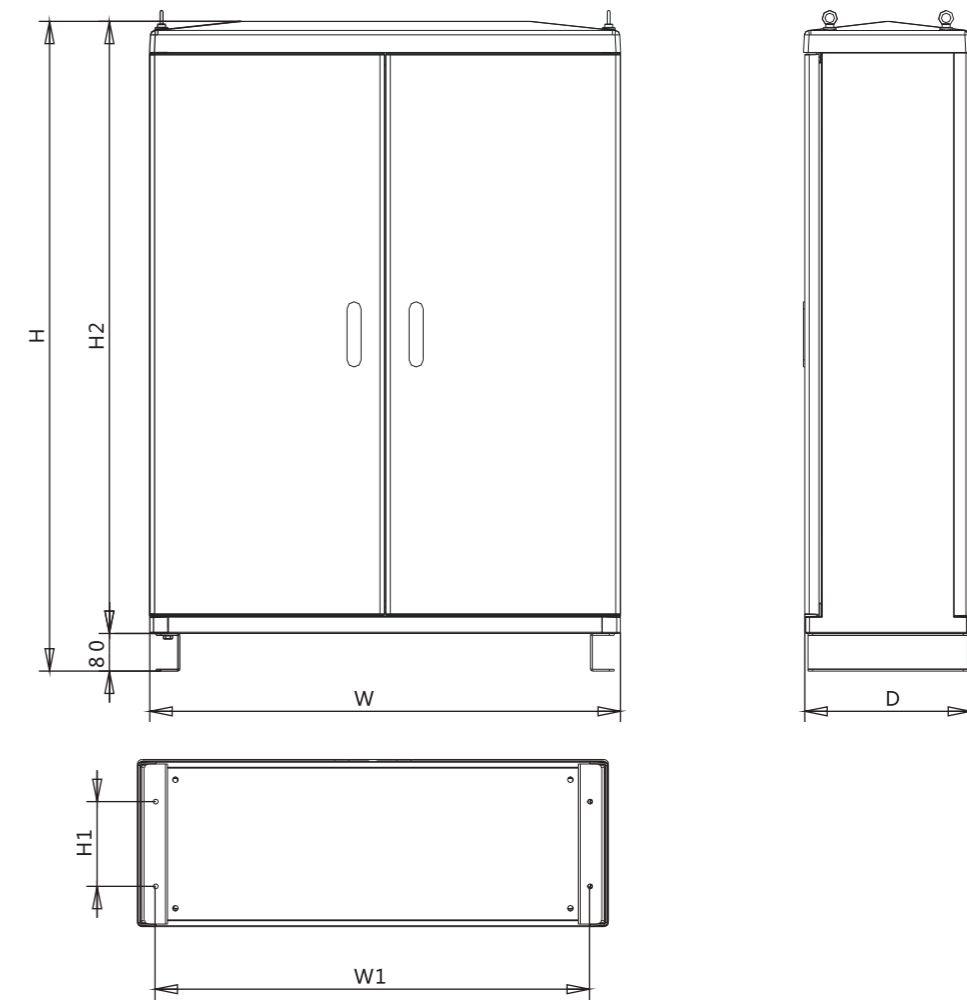


Schematic diagram when the anti-shake function is not activated



Schematic diagram when anti-shake function is activated

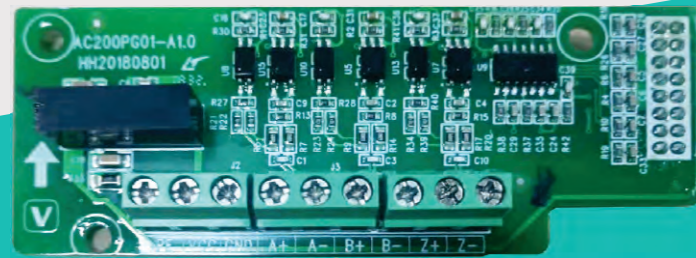
Product dimensions



Product number	Dimensions				Installation dimensions		Installation aperture
	W	H	H2	D	W1	H1	
QT03 all series	1000	1380	1300	352	923	180	∅10

Accessories

Lifting closed loop control card AC200PG series



Product model	Power supply	Function	Input signal characteristics		Output signal characteristics	
			Response frequency range	Input impedance	Output frequency range	Output current
AC200PG01	5V±5% 200mA	Disconnection detection	Differential 0-8KHz	about 1 k Ω	0~80KHz	≤100mA
AC200PG02		Disconnection detection frequency division output			0-80KHz divisible	

QTA3 Linkage station

Simple operation, convenient, beautiful appearance and strong adaptability



Lifting resistance box

- Stainless steel shape, simple, good-looking, solid and durable.
- The resistance is stable, and there will be no "resistance drifting" phenomenon due to temperature changes.



Selection of lifting resistance box

Tower crane integrated drive product model	Lifting resistance box model
QT03-80-037/015/5R5	BZR-15/24KW-S1
QT03-100-045/015/5R5	BZR-10/30KW-S1
QT03-160-055/018/7R5	BZR-8/48KW-S1
QT03-250-075/022/011	BZR-8/48KW-S1
QT03-315-090/022/011	BZR-5/60KW-S1





AC70T hoist special inverter

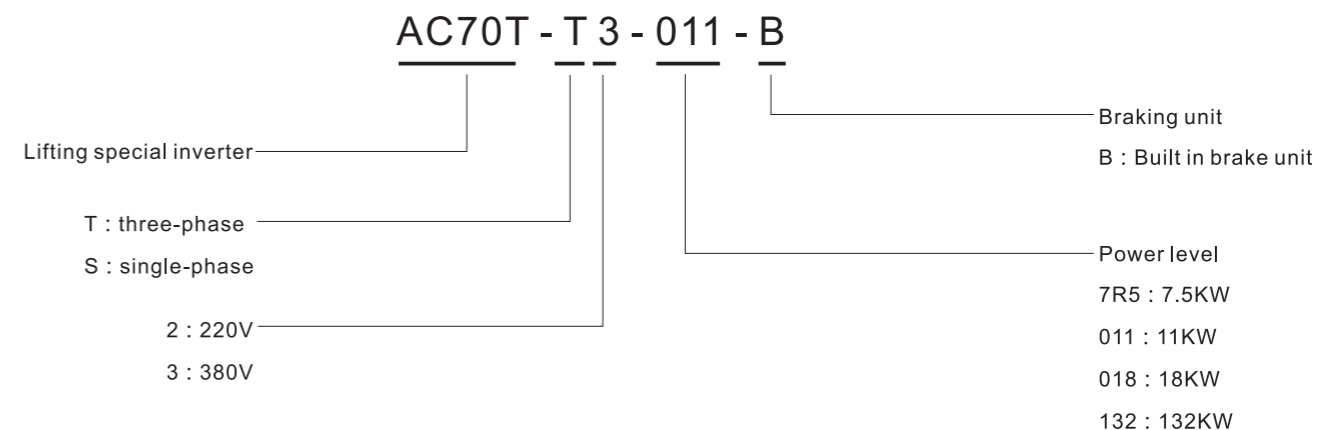


Product overview

AC70T hoist special inverter: Specially designed for the application of lifting industry, with perfect functions, good protection effect (smoke corrosion resistance), excellent performance, ensuring the safety, reliability and efficiency of lifting machinery, suitable for port machinery, ship machinery, construction machinery, mining machinery, Crane, gantry crane, electric hoist, driving and hoisting industries such as hoist, pitch, cart, trolley, slewing, luffing and other mechanisms.



Naming rules



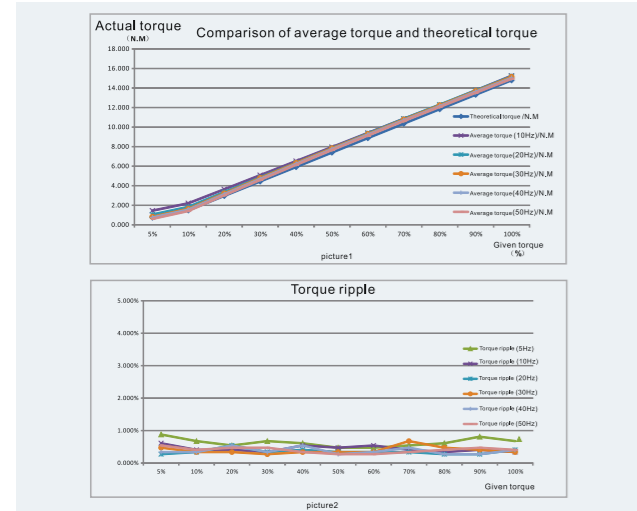
Specifications

Specifications	Adaptive motor power	Rated input voltage	Rated current	Specifications	Adaptive motor power	Rated input voltage	Rated current
AC70T-T3-R75-B	0.75KW	three-phase 380V	2.3A	AC70T-T3-037-B	37KW	three-phase 380V	75A
AC70T-T3-1R5-B	1.5KW		3.7A	AC70T-T3-045-B	45KW		90A
AC70T-T3-2R2-B	2.2KW		5A	AC70T-T3-055-B	55KW		120A
AC70T-T3-004-B	4KW		10A	AC70T-T3-075-B	75KW		150A
AC70T-T3-5R5-B	5.5KW		13A	AC70T-T3-090-B	90KW		180A
AC70T-T3-7R5-B	7.5KW		17A	AC70T-T3-110	110KW		210A
AC70T-T3-011-B	11KW		25A	AC70T-T3-132	132KW		250A
AC70T-T3-015-B	15KW		32A	AC70T-T3-160	160KW		310A
AC70T-T3-018-B	18KW		38A	AC70T-T3-185	185KW		340A
AC70T-T3-022-B	22KW		45A	AC70T-T3-200	200KW		380A
AC70T-T3-030-B	30KW	60A					

Product features

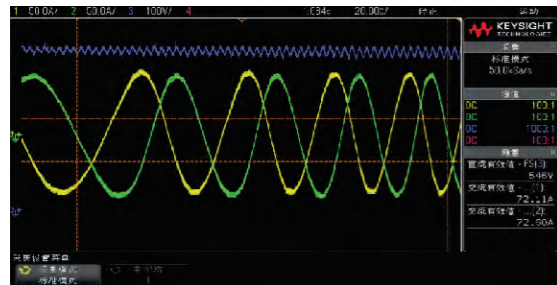
Low frequency and high torque stable output

0.5Hz/150% Stable output of rated torque to ensure that the lifting equipment runs smoothly during startup, ascent, and descent;

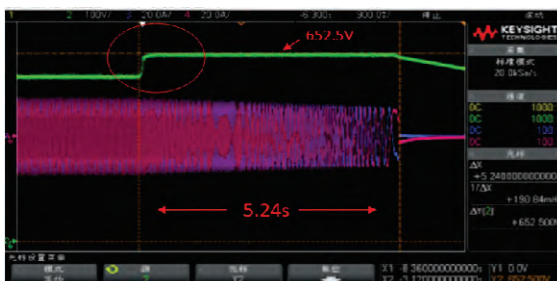


Excellent current suppression and bus voltage suppression

The current suppression function can avoid frequent overcurrent alarms of the inverter. When the current exceeds the current protection point, the overcurrent suppression function can continuously limit the current within the current protection point, thereby protecting the safety of the device and avoiding overcurrent alarm caused by sudden load or interference.



The overvoltage suppression function can avoid the overvoltage alarm of the inverter during acceleration and deceleration. When the bus voltage of the inverter reaches or exceeds the overvoltage protection point during acceleration and deceleration, the overvoltage suppression function can suppress the rise of the bus voltage by automatically adjusting the operating frequency, thereby protecting the safety of the device and avoiding the inverter caused by the rise of the bus voltage overpressure alarm.



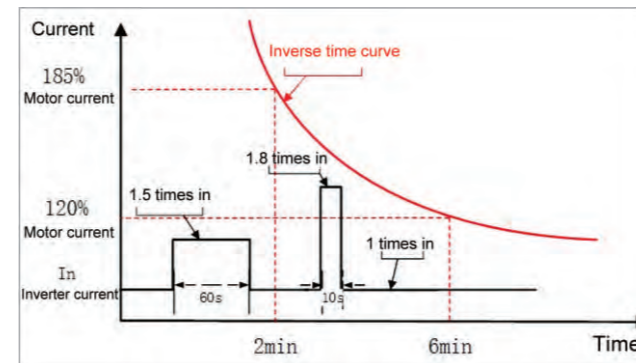
Wide speed range

The output frequency range is 0-320Hz, which meets the requirements of lifting equipment at light load and high speed, and heavy load at low speed, which improves the work efficiency of the equipment.



Strong overload capacity

150% rated current for 1 minute, 180% rated current for 10 seconds, 200% rated current for 0.5 seconds.



Stall protection mode (closed-loop mode)

When it is detected that the actual speed exceeds 115% of the rated speed during operation, the inverter quickly issues a brake signal to achieve emergency braking.

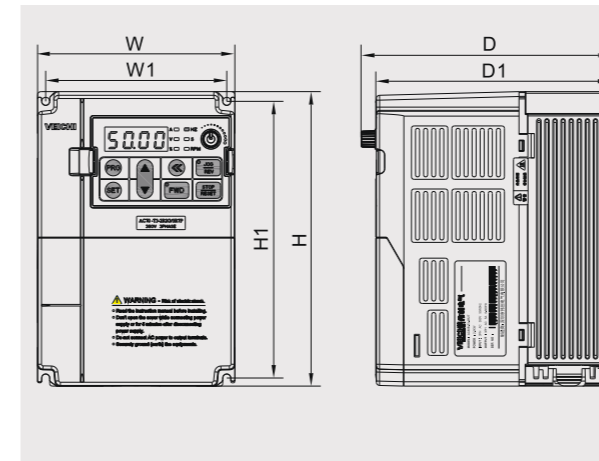
Brake dedicated control logic

Control the brake of the lifting equipment to open and close in a reasonable sequence to ensure the safety and reliability of the system.

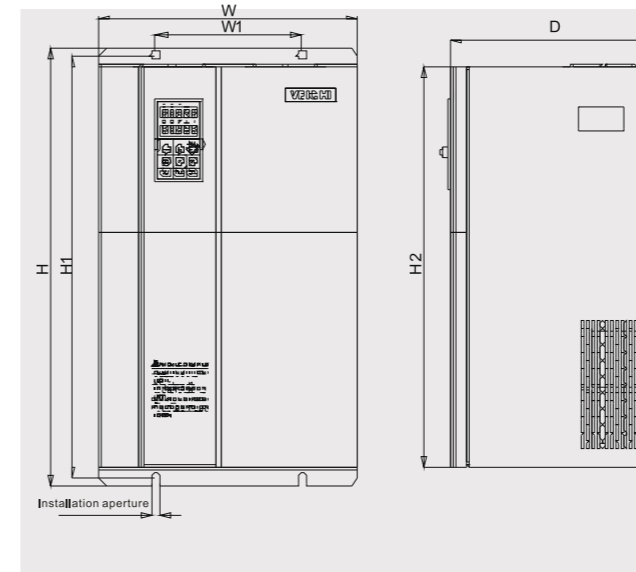
Wide voltage input range

Automatic voltage stabilization: to ensure that when the grid voltage drops, the output can still meet the torque output requirements of the lifting equipment, and the allowable input voltage fluctuation range is $\pm 20\%$.

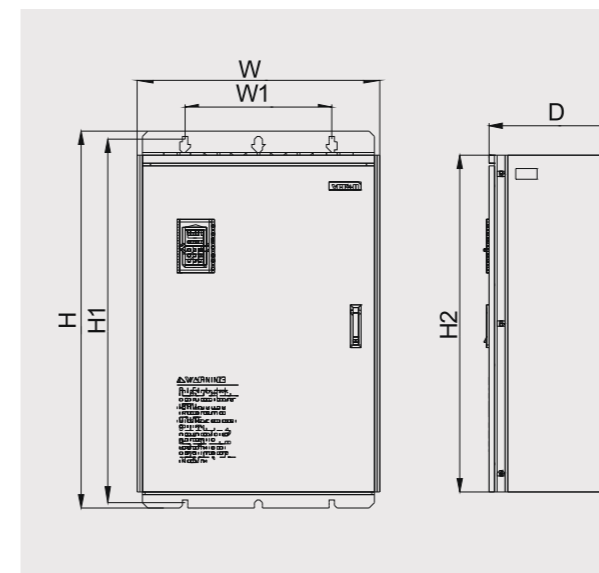
Dimensions



Inverter model	Dimensions				Mounting holes		Installation aperture
	W	H	D	D1	W1	H1	
AC70T-T3-R75-B	122	182	154.5	145	112	171	$\phi 5$
AC70T-T3-1R5-B							
AC70T-T3-2R2-B							
AC70T-T3-004-B	159	246	157.5	148	147.2	236	$\phi 5.5$
AC70T-T3-5R5-B							
AC70T-T3-7R5-B	195	291	167.5	158	179	275	$\phi 7$
AC70T-T3-011-B							
AC70T-T3-015-B	230	330	200	190	208	315	$\phi 7$
AC70T-T3-018-B							
AC70T-T3-022-B							



Inverter model	Dimensions				Mounting holes		Installation aperture
	W	H	D	D1	W1	H1	
AC70T-T3-030-B	255	410	225	370	180	395	$\phi 7$
AC70T-T3-037-B							
AC70T-T3-045-B							
AC70T-T3-055-B							
AC70T-T3-075-B							
AC70T-T3-090-B							
AC70T-T3-110	380	620	290	564	240	595	$\phi 11$



Inverter model	Dimensions				Mounting holes		Installation aperture
	W	H	D	D1	W1	H1	
AC70T-T3-132	500	780	340	708	350	755	$\phi 11$
AC70T-T3-160							
AC70T-T3-185							
AC70T-T3-200							

Construction Machinery Remote Management System

Adopt centralized remote monitoring and management: Solve the difficulty of mechanical equipment maintenance, realize remote maintenance management across regions, keep abreast of the mechanical equipment operation status, and reduce equipment maintenance costs

Remote monitoring module

Product description

The remote monitoring module is based on mobile cellular technology, connects the field RS485 bus data to the remote server, and accepts the remote server instructions and it is the bridge which transmits the signal to the field RS485 bus. It is an important element of large-scale remote industrial intelligent management system of components. Aiming at the remote positioning of machinery and equipment, a dedicated monitor developed for monitoring and management, and building an intelligent monitoring and management system for machinery.

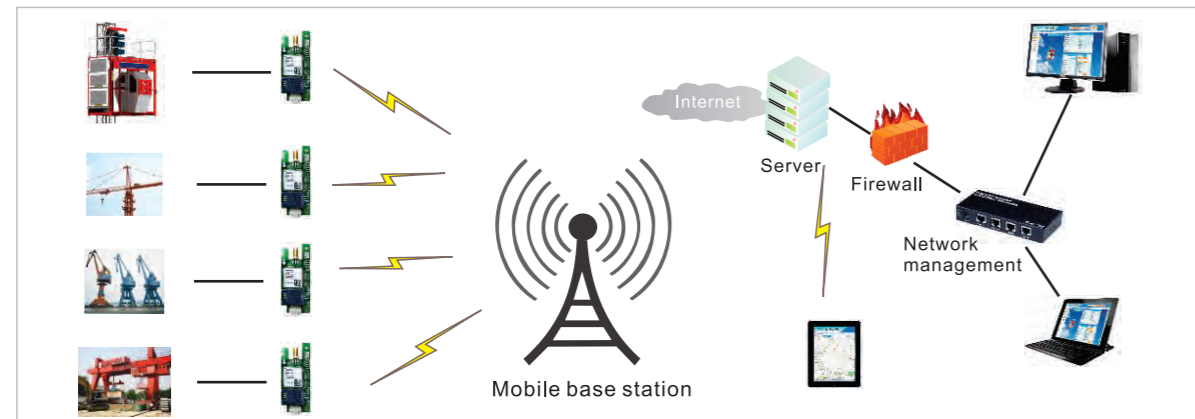


Technical features

- Use Quectel industrial-grade GPRS module, Use reliable TCP/IP communication protocol; it has functions such as error correction and encryption mechanism of communication protocol.
- Remote fault diagnosis: It can remotely monitor various limit positions, main commands, emergency stop status, set inverter parameters, and upload data to the service platform. Provide equipment value-added services to facilitate after-sales maintenance and reduce operating costs.
- Support mobile phone remote management, fault reminder, expiration reminder service, when the device fails or the lease period is approaching, the server will actively send a warm reminder to the user.
- Built-in 1000mAh lithium battery, device can still ensure accurate positioning.

- Using dual positioning mode of GPS and base station, the positioning accuracy is high; even in the case of obstructions, to ensure that the positioning is not disturbed; it can still be accurately positioned.
- Prevent man-made malicious disassembly and destruction, protect the interests of customers; support machine lock, unlock, real-time SMS reminder of equipment failure.
- Using GPRS real-time data communication, real-time data exchange between the logic controller and the device, the relevant information of the device can be obtained through the PC terminal and the mobile phone APP; it is convenient to grasp the operation status of the device at the very beginning.
- The powerful management platform and superior management interface allow you to easily realize the remote control, remote signaling and telemetry of the equipment.

Data transmission scheme



Construction Machinery Remote Management System

Adopt centralized remote monitoring and management: Solve the difficulty of mechanical equipment maintenance, realize remote maintenance management across regions, keep abreast of the mechanical equipment operation status, and reduce equipment maintenance costs.

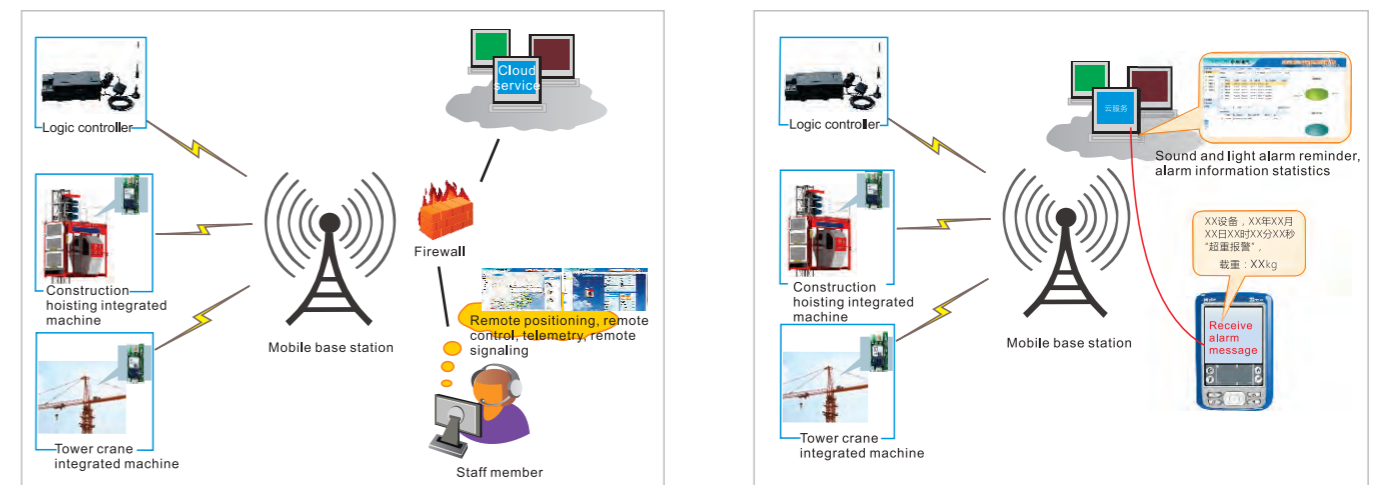


real time monitoring—Online monitoring of equipment operation, get related fault information.

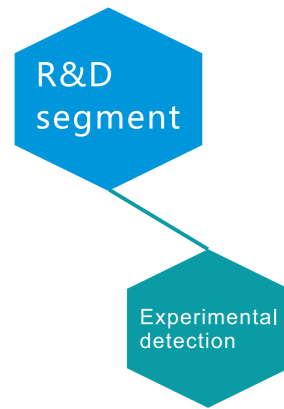


Accurate locating—GPS satellite and base station dual positioning

Equipment Information Management—Accurately enter equipment information and establish perfect equipment files.



R&D team



High-quality R&D team with 20 years of industry experience;
High-quality talents;
Patented Technology;
High investment in R&D.

In-depth technical cooperation between schools and enterprises, joint construction of laboratories, and reserve personnel for the R&D team. Government-enterprise cooperation is a member unit of Shenzhen High-tech Industrial Association, and many scientific research achievements enjoy special government subsidies.

There are multiple professional laboratories
A general laboratory, several professional laboratories
EMC laboratory, Motor Performance Testing Laboratory, Reliability Laboratory.
Field application laboratory

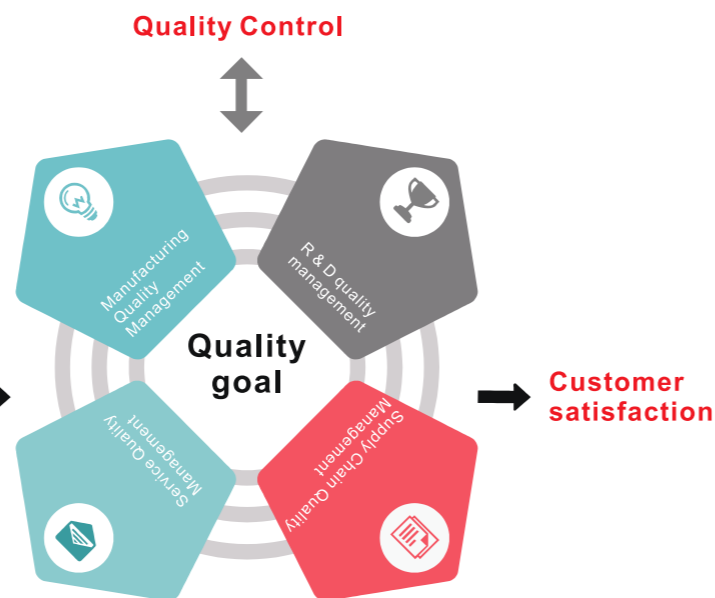


Quality assurance

Adhering to the principle of quality first and philosophy Source supervision, process management and control, from design, procurement, incoming inspection, manufacturing and other links are strictly implemented in accordance with ISO9001 quality management system standards.

Information management
Product Traceability System, from raw materials to finished products, realizing the whole process of product traceability.

- Market demand analysis
- Proposal review
- Detailed design review
- Prototype review
- Material certification test
- Performance/functional testing
- Electromagnetic compatibility/interference test
- Environmental/Reliability Test
- Personalized production
- 100% Safety test
- 100% Aging experiment
- 100% Factory examination



Advanced system certification to ensure quality and safety



R & D, production management system conforms to ISO9001:2015 standard



Full range of products comply with CE standards



Environmental management system ISO14001 certification



OHS18001 certification for occupational health and safety management

Intelligent production



3 fully imported SMT high-speed chip production lines

3 test lines

2 sets of advanced production test equipment

2 automated spray lines

2 fully automatic packaging lines

1 floor sheet metal processing workshop

6 models of assembly lines for each power segment

2 sets of high temperature and normal temperature aging rooms

Production capacity



Modern automatic assembly production line, with nearly 90 production equipments per set, with a total value of about 50 million Yuan, and an annual production output of up to One hundred thousand of inverters & control systems.