

CH530 Series AC Drive

Professional Drive for Lifting Equipment



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COMPANY PROFILE

Shenzhen VEIKONG ELECTRIC CO., LTD. is a renowned high-tech enterprise specializing in the R&D, manufacturing and sales of low-voltage frequency inverters, servo drives, solar pumping inverters, soft starters and accessories. We provide our clients with integrated system solutions. Supported by a professional R&D team and a dedicated management group with over 20 years of industry experience, we rank among the earliest independent AC drive and servo drives manufacturers in China.

Our variable frequency drives (VFDs) and solar pumping inverters adopt cutting-edge technologies including high-efficiency MPPT algorithms, SPWM, sensorless vector control, as well as vector and torque control. Having reached internationally advanced standards, our products can directly substitute equivalent brands from Europe, the United States, Japan and other regions, enabling us to deliver top-tier technical support to our clients.

Quality is the cornerstone of our enterprise. We consistently implement strict quality management and supervision in accordance with ISO9001 standards. Our products have obtained CE, IEC and other authoritative certifications and technical approvals. We keep upgrading our technologies and products to better satisfy customer demands and market trends.

The VEIKONG team believes that customers are the lifeblood of the enterprise. We take great pride in prioritizing customer needs and committing ourselves to meeting and even exceeding their expectations. Our products are widely used in a wide range of industries, including solar pumping, petroleum, chemical, metallurgy, hoisting, electric power, building materials, water supply, plastics, textiles, printing, packaging and more, creating sustainable value for our customers.



VISION
To become a world-class provider
of drive control products and solutions



MISSION
Provide quality products and services
to continuously create value for customers



VALUES
Pragmatism, Innovation,
Perseverance, Integrity



PRODUCT INTRODUCTION

CRANES

Supported Motor Types

Asynchronous Motor, Synchronous Motor

Control Mode

V/F Control, Sensorless Vector Control (SVC), Vector Control with Speed Sensor (VC)

Power Range

Three-phase: 0.75-710kW

Voltage Class

Three-phase 380V type: 380V-480V

Allowable Voltage Fluctuation

-15%~10%

VEIKONG CH530 Series AC Drive

VEIKONG CH530 Series: High-performance vector inverter dedicated to crane applications. Integrated with core industry functions—brake control, anti-sway detection, light-load acceleration/heavy-load deceleration, zero servo, trolley/bridge anti-sway and tower crane slewing—ensuring superior safety, reliability and efficiency for lifting equipment.

Adopting world-leading control technology, it matches international high-end inverter standards, supporting both induction and permanent magnet synchronous motors.

Versatile expansion interfaces (PG cards, communication cards, I/O extension modules) meet diverse application demands.

High power density design, with built-in brake units for selected power ranges, significantly saving installation space.

Optimized EMC design achieves low noise and low EMI compliance; it endures harsh environments (unstable power grids, extreme temperature, humidity, dust) for enhanced reliability.

The CH530 Series is widely deployed in general, port, construction and mining cranes worldwide.

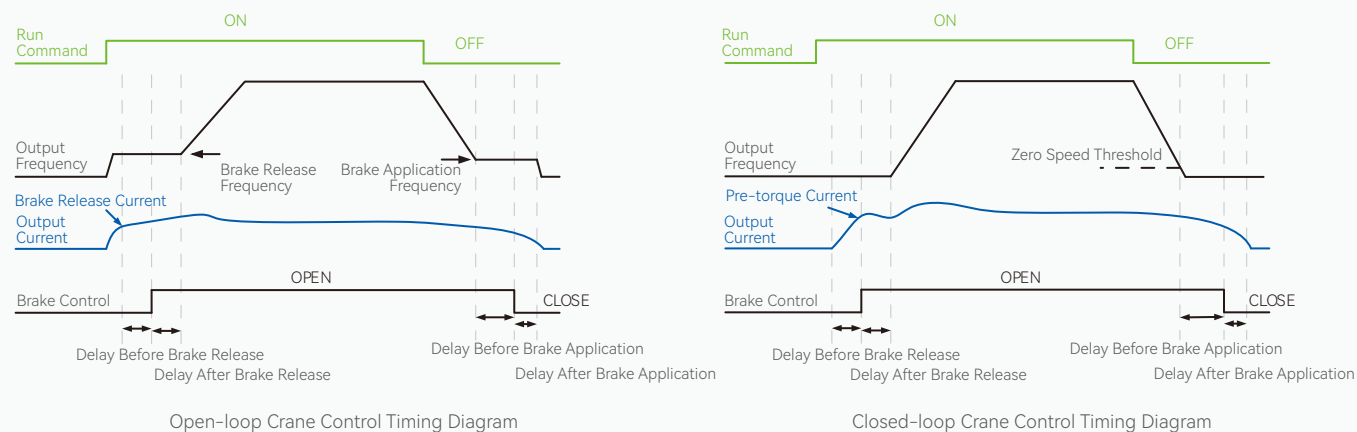
- Professional Brake Sequence Control
- Integrated Anti-sway Technology To Improve Efficiency
- Quickly Matches Various Third-party Synchronous, Asynchronous And Cone Motors
- Intelligent Anti-slip Algorithm, Starting Torque $\geq 150\%$, Effectively Prevents Slipping
- Automatic Speed-up At Light Load; Automatic Speed-down At Overload To Extend Service Life
- Rich Terminal Interfaces Reserved For Crane Industry, Convenient For On-site Installation



Professional Brake Sequence Control

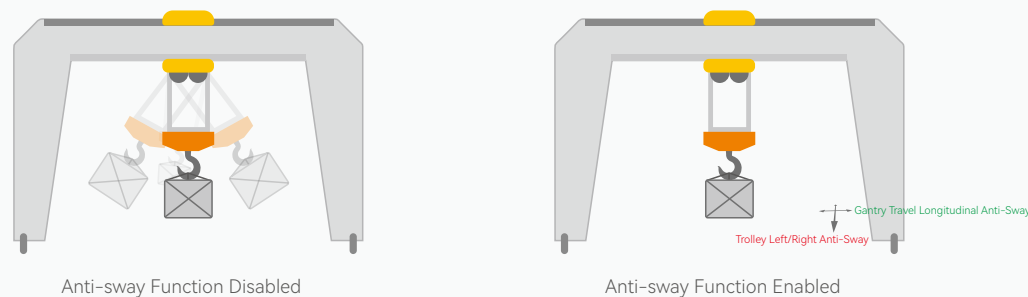
The inverter actuates the brake only when both frequency and current conditions are met, with delays to ensure safe and smooth start/stop.

Under precise closed-loop vector control, pre-torque current is output before brake action to ensure stable operation.



Integrated Trolley & Girder Travel Anti-sway Technology

Built-in anti-sway algorithm reduces load swing and improves efficiency and safety.



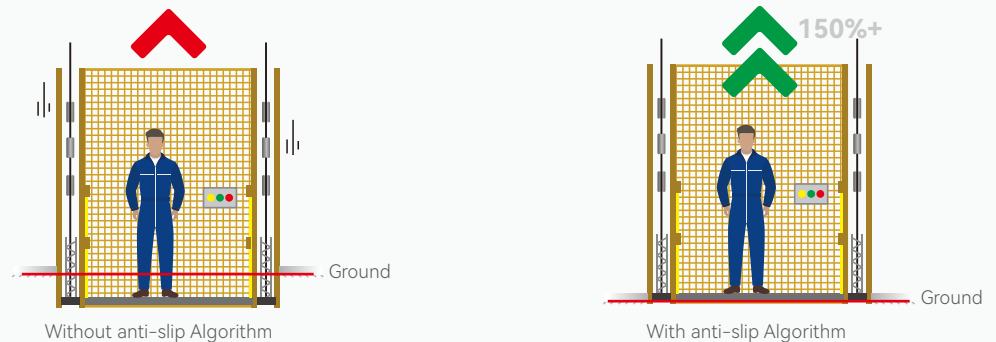
Zero Servo Function for Safety

If equipment is in operation, in the event of mechanical brake failure, failure to apply the brake in time, or insufficient braking force, the frequency converter will immediately detect the rotation of the motor shaft while powered on and activate the zero-servo function. This will hold the load or car at its current position, while triggering an alarm to prompt the operator to take appropriate measures, thus providing safety protection for equipment operation.



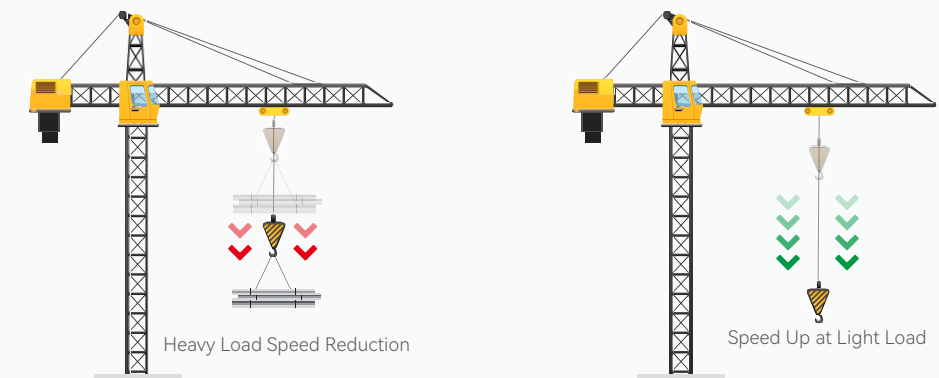
Intelligent anti-slip algorithm, starting torque $\geq 150\%$, effectively prevents slip during startup.

Built-in anti-slip algorithm outputs 150% torque at 0.0Hz, ensuring stable low-speed operation and preventing slipping. The Anti-sway algorithm enables high-torque starting and output under both loaded and no-load conditions, effectively preventing slip during lifting and lowering of hoisting equipment and ensuring safe operation.



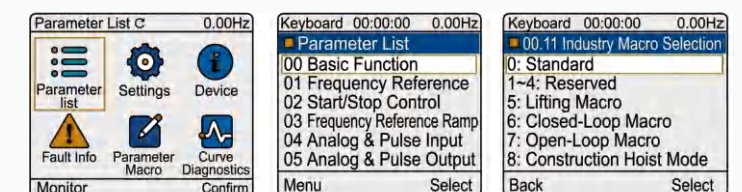
Automatically speeds up under light load to improve efficiency, and automatically slows down under overload to extend service life.

Supports constant power mode and automatically matches the optimal operating speed based on real-time load. It reduces speed automatically under heavy load to ensure the safety of goods and personnel, and increases speed automatically under light load to improve on-site working efficiency.



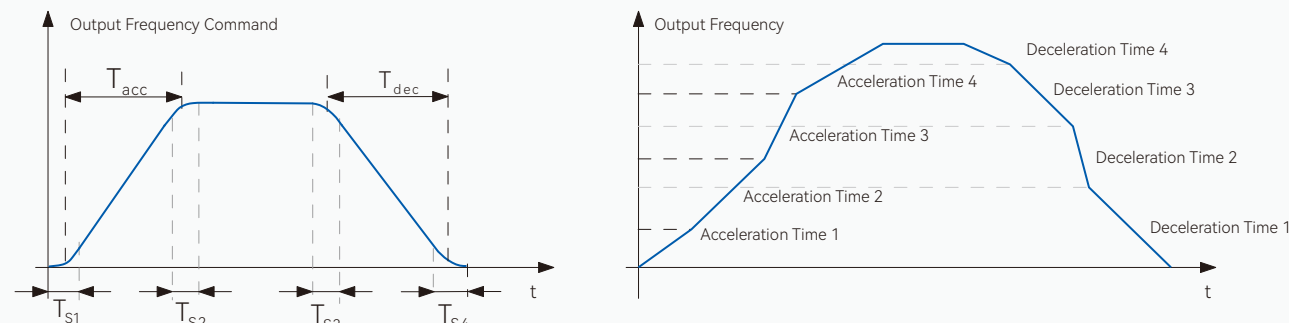
Pre-programmed Crane Parameter Macro Settings for Quick Commissioning

The inverter integrates multiple built-in crane application parameter macros, allowing one-key configuration via the keypad. Simple commissioning is sufficient to match on-site equipment.



Smooth acceleration and deceleration for stable and smooth operation.

Supports linear and S-curve acceleration/deceleration with 4 sets of adjustable time parameters. Simple configuration enables matching of acceleration/deceleration characteristics for lifting, traveling, lifting/lowering, and tower crane slewing applications, ensuring stable operation across all working conditions for hoisting equipment.



Powerful self-learning function for quick matching with third-party motors.

The one-key motor self-learning function accurately identifies motor model and mechanical parameters, enabling quick matching with third-party motors and significantly reducing commissioning efforts.



Abundant reserved terminal interfaces for convenient on-site installation and wiring.

Tailored to the characteristics of the hoisting industry, in addition to standard digital I/O, analog I/O, and relay output terminals, additional I/O terminals can be expanded as required to meet diverse customer application needs and facilitate on-site installation.

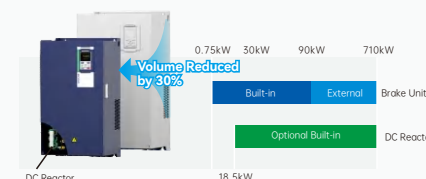


Compact structural design and comprehensive brake circuit solution.

The compact structural design reduces volume by 30% compared to the previous generation, saving installation space and simplifying electrical layout.

Built-in brake unit for models below 90kW; external brake unit optional for models above 90kW. In addition to providing reliable brake protection and enhancing short-term braking capability, it also reduces customer application costs.

Built-in DC reactor is optional for models above 18.5kW, minimizing installation space and eliminating external safety hazards.



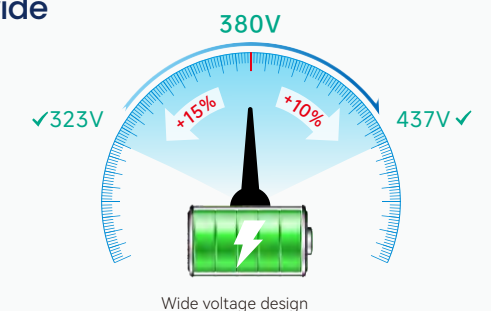
Optional LCD keypad supports multi-machine parameter copying and remote parameter file transmission.

CH530 series comes standard with an LED digital keypad, with dual-display and color LCD keypads as optional extras. The LCD keypad enables multi-device user-defined parameter duplication. Parameter files can be exported to PCs and shared remotely across sites for easy remote management and debugging.



International standard-compliant wide voltage input range.

Rated Voltage	Three-phase 380V models: 380V ~ 480V
Allowable Voltage Fluctuation Range	-15% ~ 10%
Input Power Frequency	50Hz or 60Hz, allowable fluctuation range $\pm 5\%$

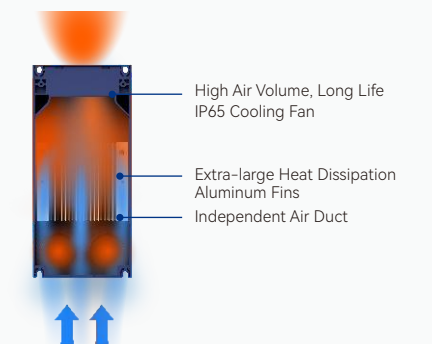


Wide voltage design

Independent air duct design

The independent air duct design effectively prevents dust from entering the inverter and causing short circuits or other faults, thereby improving reliability.

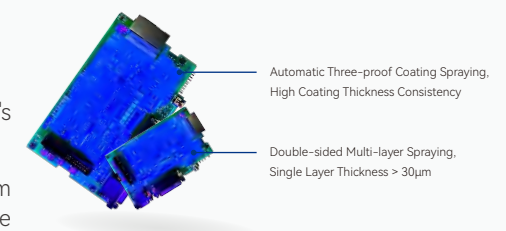
Equipped with a high-airflow, long-life cooling fan to effectively reduce internal temperature rise of the inverter and ensure reliable and stable operation.



Automatic three-proof coating process

Multi-layer high-quality three-proof coating is applied to enhance the product's environmental adaptability.

The three-proof coating adopts an automatic spraying process to ensure uniform coating thickness on the circuit board and consistency in mass production of the product.





SOLUTIONS



Yard Crane

Yard cranes are container-specific equipment used in ports and logistics yards, available in rail-mounted (fixed route) and rubber-tyred (flexible movement) types. They are mainly used for horizontal transport, stacking, and handling of containers, with cross-block operation capabilities to improve yard cargo turnover efficiency.

Product Configuration

CH530 series crane-specific variable frequency drives (VFDs).

Application Cases

Projects including a major heavy machinery OEM in Shanghai.



Quay Crane

Quay cranes are large, port-specific lifting equipment mounted on shore rails. They enable efficient loading and unloading of container ships via their tall gantry structure, with forward/backward movement and lifting/lowering functions, serving as the core handling machinery for seaport container terminals.

Product Configuration

CH530 series crane-specific variable frequency drives, VFD580 series high-performance variable frequency drives.

Application Cases

Projects including a major heavy machinery OEM in Shanghai.



Overhead Crane



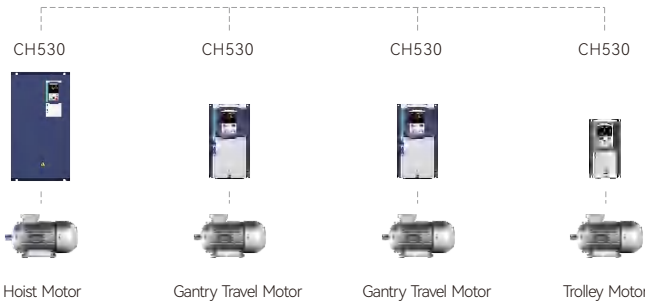
Overhead cranes are lifting equipment with a bridge beam installed indoors, such as in workshops and warehouses. The bridge travels along tracks on both sides, available in single-girder (lightweight and economical), double-girder (heavy load), and standard/European-style (low-headroom design) configurations. They are widely used for material handling and can work with electric hoists or winches.

Product Configuration

CH530 series crane-specific variable frequency drives (VFDs)

Application Cases

Projects including a 50T double-girder overhead crane at a factory in Shanxi, and double-girder overhead cranes for a coal group in Sichuan.





Gantry Crane

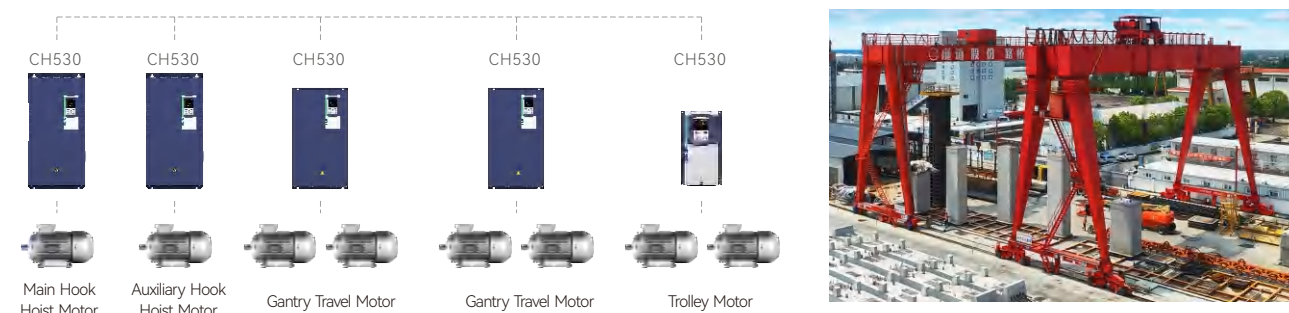
Gantry cranes are lifting equipment with a portal metal structure, with two legs supported on ground rails. They are suitable for outdoor yards, ports, construction sites and other scenarios, capable of lifting large workpieces, heavy loads or containers. They feature large span, strong lifting capacity and adaptability to outdoor environments.

Product Configuration

CH530 series crane-specific variable frequency drives (VFDs)

Application Cases

Projects including gantry cranes at a shipyard in Guangzhou.



Construction Hoist

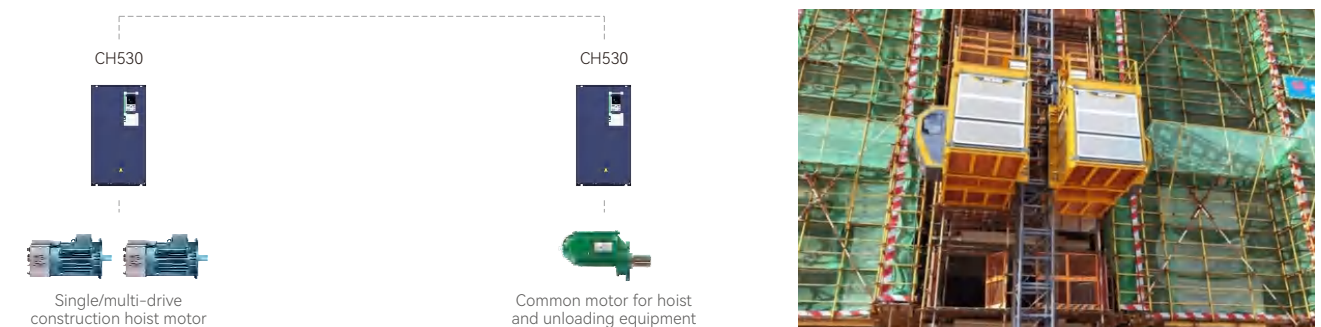
Construction hoist is a vertical transportation facility for personnel movement at construction sites. It is mostly built with steel or aluminum alloy frames, equipped with protective railings and safety devices. It is divided into fixed type (attached to buildings) and mobile type (demountable and relocatable), suitable for construction, bridge and other projects to ensure safe and convenient passage for personnel.

Product Configuration

CH530 series dedicated inverter for hoisting applications

Application Cases

Construction hoist projects for customers in India, etc.



Tower Crane



Tower crane is a common vertical transportation equipment in construction work. It features a vertical tower body and a horizontal jib, which can rotate 360° and rise as the building floor increases. It is mainly used for lifting construction materials such as steel bars, concrete and pipes in high-rise buildings, and is available in two forms: upper slewing and lower slewing.

Product Configuration

CH530 series dedicated inverter for hoisting applications

Application Cases

Tower crane projects for customers in Hong Kong, Russia, etc.



Mine Hoist



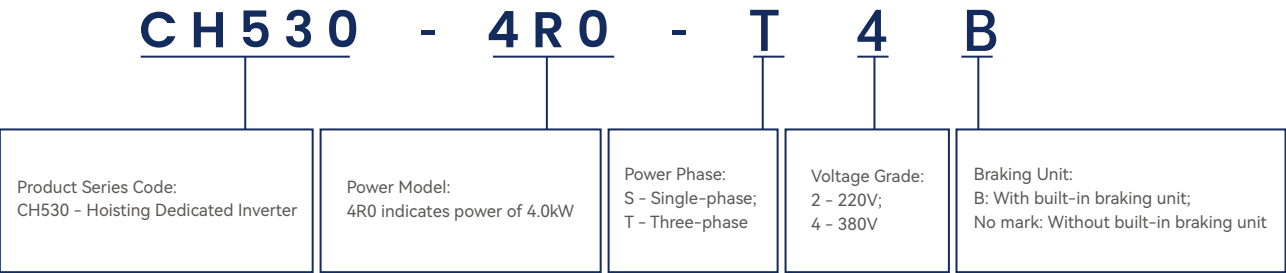
Mine hoist is the core equipment for vertical transportation in mines. Driven by an electric motor to operate the drum or friction wheel, it uses steel wire ropes to lift ore, waste rock, equipment and personnel. It is divided into drum type (suitable for shallow shafts) and friction type (suitable for deep shafts), with high reliability and safety protection devices to ensure efficient and safe vertical transportation in mines.

Product Configuration

CH530 series dedicated inverter for hoisting applications, VFD550I dedicated electro-hydraulic servo driver

Application Cases

Mine hoist project in Chengde, Hebei Province.



PRODUCT SELECTION

Inverter Model	Rated Capacity (kVA)	Rated Input Current (A)	Rated Output Current (A)	Matched Motor (kW)	Structure Size	Braking Unit
Three-phase Voltage: 380V, 50/60Hz						
CH530-0R7-T4B	1.5	3.4	2.5	0.75kW	SIZE A	Built-in
CH530-1R5-T4B	3	5	4.2	1.5kW		
CH530-2R2-T4B	4	5.8	5.6	2.2kW		
CH530-4R0-T4B	5.9	10.5	9.4	4.0kW		
CH530-5R5-T4B	8.9	14.6	13.0	5.5kW	SIZE B	
CH530-7R5-T4B	11	20.5	17.0	7.5kW	SIZE C	
CH530-011-T4B	17	26.0	25.0	11kW		
CH530-015-T4B	21	35.0	32.0	15kW	SIZE D	
CH530-018-T4B	24	38.5	37.0	18.5kW		
CH530-022-T4B	30	46.5	45.0	22kW	SIZE E	
CH530-030-T4B	40	62.0	60.0	30kW		
CH530-037-T4B	50	76.0	75.0	37kW	SIZE F	
CH530-045-T4B	60	92.0	90.0	45kW		
CH530-055-T4B	75	113.0	110.0	55kW	SIZE G	
CH530-075-T4B	104	157.0	152.0	75kW		
CH530-090-T4B	112	170.0	176.0	90kW	SIZE H	
CH530-110-T4	145	220.0	210.0	110kW	SIZE I	
CH530-132-T4	170	258.0	253.0	132kW		
CH530-160-T4	210	320.0	304.0	160kW	SIZE J	
CH530-185-T4	245	372.0	360.0	185kW		
CH530-200-T4	250	380.0	380.0	200kW	SIZE J1	
CH530-220-T4	280	425.0	426.0	220kW		
CH530-250-T4	315	479.0	465.0	250kW	SIZE K	
CH530-280-T4	350	532.0	520.0	280kW		
CH530-315-T4	385	585.0	585.0	315kW	SIZE L	
CH530-355-T4	420	638.0	650.0	355kW		
CH530-400-T4	470	714.0	725.0	400kW	SIZE M	
CH530-450-T4	530	810.0	820.0	450kW		
CH530-530-T4	585	900.0	900.0	500kW	SIZE N	
CH530-560-T4	660	969.0	980.0	560kW		
CH530-630-T4	720	1100.0	1120.0	630kW		
CH530-710-T4	800	1245.0	1260.0	710kW		

BUNDANT OPTIONAL ACCESSORIES

Accessory Type	Model	Physical Image	Description
PG Cards	Frequency Divider PG Card VFD500-PG-INC2		Optional differential or open-collector input: max. 500kHz for differential input, max. 150kHz for open-collector input; supports 1-63 frequency division differential and open-collector output, no UVW input.
	Incremental PG Card VFD500-PG-INC3		Optional differential or open-collector input: max. 500kHz for differential input, max. 150kHz for open-collector input; no UVW differential input; no frequency division output.
	Resolver PG Card VFD500-PG-RT1		Resolver PG card, supports 7Vrms, 10kHz excitation signal, DB9 female connector.
Communication Expansion Cards	Modbus-TCP Communication Card VFD500-COMM-TCP		Modbus-TCP communication card is a Modbus-TCP fieldbus adapter card, compliant with the international standard Modbus-TCP protocol, featuring high efficiency, flexible topology and easy operation. It is used to connect VFD500 and CH530 series inverters to Modbus-TCP networks, enabling the inverter to act as a slave controlled by the fieldbus master.
	CANopen Communication Card VFD500-CAN1		Used to connect VFD500 and CH530 series inverters to CANopen networks, supporting NodeGuard protocol (master can query device status), Heartbeat protocol (slave reports status to master), NMT network management protocol; SDP only supports accelerated transmission (max. 4 bytes) for reading/writing inverter parameters; supports 4 sets of PDO.
	Profinet Communication Card VFD500-Profinet		VFD500-Profinet communication card is a Profinet fieldbus adapter card, compliant with the international standard Profinet Ethernet protocol. Installed on VFD500 and CH530 series inverters, it improves communication efficiency and enables inverter networking, allowing the inverter to act as a slave controlled by the fieldbus master. Suitable for all VFD500 and CH530 series models.
I/O Expansion Card	I/O Expansion Card VFD500-IOEX1		4 digital input terminals; 2 analog input terminals; 4 digital output terminals; Supports signal processing for PT100, PT1000, and KTY84-150 temperature sensors.
Operation Keypads	LED Digital Keypad MTBOP1 (Standard)		Used for parameter setting, status monitoring and operation control.
	LCD Keypad MTSOP1 (Optional)		Supports parameter setting, backup, copy, macro editing, status monitoring, start/stop control, fault query, and firmware upgrade; support multi-language display.
	Dual-display Keypad MTBOP2 (Optional)		Used for parameter setting, status monitoring and operation control, with digital potentiometer; first line for switching monitor/menu mode, function code selection, parameter editing/viewing; second LED display line for monitoring and auxiliary display.

Inverter Model	Recommended Power for Hoisting Mechanism Braking Resistor (50% Braking Duty)	Recommended Power for Traveling Mechanism Braking Resistor (20% Braking Duty)	Recommended Brake Resistor Value	Brake Unit
Three-phase Voltage: 380V, 50/60Hz				
CH530-0R7-T4B	350 W	140 W	>150 Ω	Built-in Standard
CH530-1R5-T4B	750 W	300 W	>150 Ω	
CH530-2R2-T4B	1.1 kW	440 W	>150 Ω	
CH530-4R0-T4B	2.0 kW	800 W	>90 Ω	
CH530-5R5-T4B	2.7 kW	1.1 kW	>60 Ω	
CH530-7R5-T4B	3.7 kW	1.5 kW	>60 Ω	
CH530-011-T4B	5.5 kW	2.2 kW	>25 Ω	
CH530-015-T4B	7.5 kW	3.0 kW	>25 Ω	
CH530-018-T4B	9.0 kW	3.7 kW	>20 Ω	
CH530-022-T4B	11 kW	4.4 kW	>20 Ω	
CH530-030-T4B	15 kW	6.0 kW	>12 Ω	
CH530-037-T4B	18 kW	7.5 kW	>12 Ω	
CH530-045-T4B	22 kW	9.0 kW	>9 Ω	
CH530-055-T4B	27 kW	11 kW	>6 Ω	
CH530-075-T4B	37 kW	15 kW	>6 Ω	
CH530-090-T4B	45 kW	18 kW	>6 Ω	
CH530-110-T4 ~CH530-710-T4	Compatible with external brake unit			External

TECHNICAL SPECIFICATIONS

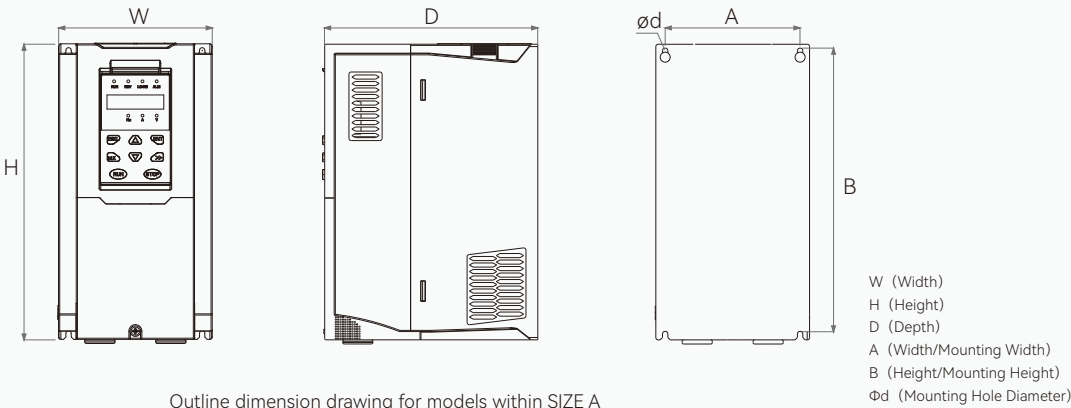
	Project	Specification
Power	Input Power Voltage	3-phase 380V model: 380V~480V
	Allowable Voltage Fluctuation Range	-15% ~ 10%
	Input Power Frequency	50Hz or 60Hz, allowable fluctuation range ±5%
	Input Harmonics	DC reactors are standard for 220kW and above; DC reactors are optional for 18.5-200KW
Output	Maximum Output Voltage	3-phase: 0~input voltage
	Overload Capacity	Standard application: 150% rated output current for 60 seconds
Control Characteristics	Control Method	V/F control; sensorless vector control (SVC); vector control with speed sensor (VC)
	Operation Mode	Speed control, torque control (SVC and VC)
	Speed Regulation Range	1:100 (V/f); 1:200 (SVC); 1:1000 (VC)
	Speed Control Accuracy	±0.5% (V/F) ; ±0.2% (SVC) ; ±0.02% (VC)
	Speed Response	5Hz (V/F) ; 20Hz (SVC) ; 50Hz (VC)
	Frequency Control Range	0-500Hz (V/F) ; 0-500Hz (SVC) ; 0-500Hz (VC)

	Project	Specification
Control Characteristics	Input Frequency Resolution	Digital input: 0.01Hz; analog input: 0.1% of max frequency
	Starting Torque	150%/0.5Hz (V/F) ; 150%/0.25Hz (SVC) ; 150%/0Hz (VC)
	Torque Control Accuracy	SVC: 10% within 5Hz, 5% above 5Hz; VC: 3%
	V/F Characteristics	V/F curve types: linear, multi-point, power function, V/F separation; Torque boost support: automatic torque boost (factory setting), manual torque boost
	Frequency Given Ramp	Supports linear and S-curve acceleration/deceleration; 4 sets of acceleration/deceleration time, setting range 0.00s~60000s
	DC Bus Voltage Control	Overvoltage stall control: limit motor power generation by adjusting output frequency to avoid overvoltage faults; Undervoltage stall control: control motor power consumption by adjusting output frequency to avoid undervoltage faults
	Carrier Frequency	1kHz~12kHz (varies by model)
	Starting Method	Direct start (with optional DC braking); speed tracking start
	Stopping Method	Deceleration stop (with optional DC braking); coast to stop
	Main Control Functions	Jog control, droop control, up to 16-step operation, dangerous temperature avoidance, swing frequency operation, acceleration/deceleration time switching, V/F separation, overexcitation braking, process PID control, sleep and wake-up function, built-in simple PLC logic, virtual input/output terminals, built-in clock unit, built-in comparison and logic units, parameter backup and restore, complete fault records, fault retry, free switching between two sets of motor parameters, software adjustment of output phase sequence, output UP/DOWN, etc.
Functions	Keypad	Standard LED, dual display and LCD for options
	Communication	Standard: MODBUS communication; optional CANopen communication card, Modbus-TCP communication card, Profinet communication card and EtherCAT communication card
	Encoder Interface Card	Incremental encoder interface card (differential output type and open-collector type), resolver interface card
	Input Terminals	Standard: 7 digital input terminals, including 1 high-speed pulse input supporting up to 50kHz; 2 analog input terminals supporting 0~10V voltage input or 0~20mA current input; expansion (VFD500-IOEX1): 4 additional digital input terminals; 2 additional analog input terminals.
Protection	Output Terminals	Standard: 1 digital output terminal; 1 high-speed pulse output terminal (open-collector type) supporting 0~50kHz square wave output; 2 relay output terminals; 2 analog output terminals supporting 0~20mA current output or 0~10V voltage output; expansion (VFD500-IOEX1): 4 additional digital output terminals.
	Protection	Protection functions refer to Chapter 6 "Fault Diagnosis and Countermeasures" in user manual
Environment	Application Location	Indoor, no direct sunlight, no dust, corrosive gases, flammable gases, oil mist, water vapor, dripping water or salt, etc.
	Altitude	0~3000m. Derating is required above 1000m; rated output current decreases by 1% for every 100m increase
	Ambient Temperature	-10℃~+40℃, max 50℃; above 40℃, rated output current decreases by 1.5% for every 1℃ increase
	Humidity	Less than 95% RH, no condensation
	Vibration	Less than 5.9m/s² (0.5g)
	Storage Temperature	-20℃ ~ +60℃
Others	Installation Method	Wall-mounted, floor-standing control cabinet type, through-wall
	Protection Class	IP20
	Cooling Method	Forced air cooling

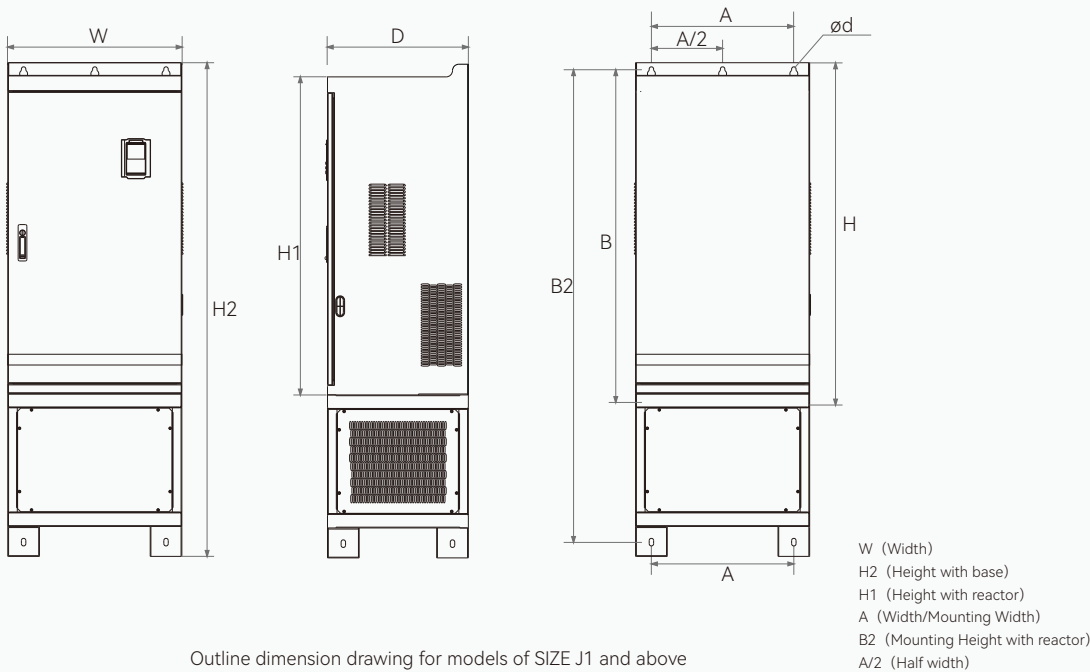
Outline Size	Inverter Model	Outline and Installation Dimensions (mm)							
		A	B/B2	H/H2	H1	W	D	Φd	Mounting Screw
SIZE A	CH530-0R7-T4B	87	206.5	215	/	100	170	Ø5.0	M4×16
	CH530-1R5-T4B								
	CH530-2R2-T4B								
	CH530-4R0-T4B								
SIZE B	CH530-5R5-T4B	113	239.5	250	/	130	180	Ø5.0	M4×16
	CH530-7R5-T4B								
SIZE C	CH530-011-T4B	153	299	310	/	170	193	Ø6.0	M5×16
	CH530-015-T4B								
SIZE D	CH530-018-T4B	165	350	366	335	210	196	Ø6.0	M5×16
	CH530-022-T4B								
SIZE E	CH530-030-T4B	218	438	452.5	424	260	230	Ø7.0	M6×16
	CH530-037-T4B								
SIZE F	CH530-045-T4B	250	535	555	520	320	275	Ø10	M8×20
	CH530-055-T4B								
SIZE G	CH530-075-T4B	280	620	640	605	350	290	Ø10	M8×20
	CH530-090-T4B								
SIZE H	CH530-110-T4	280	695/*	715/*	660	370	313	Ø11	M8×25
SIZE I	CH530-132-T4	280	705/*	725/*	670	360	338	Ø11	M8×25
	CH530-160-T4								
SIZE J	CH530-185-T4	360	795/*	816/*	762	490	358	Ø11	M10×25
	CH530-200-T4								
SIZE J1	CH530-220-T4	360	*/1145	*/1166	762	490	358	Ø11	M10×25
	CH530-250-T4								
SIZE K	CH530-280-T4	450	*/1495	*/1560	1005	550	450	Ø13	M12×30
	CH530-315-T4								
SIZE L	CH530-355-T4	630	*/1425	*/1495	970	730	450	Ø13	M12×30
	CH530-400-T4								
SIZE M	CH530-450-T4	660	1065	1575	1095	785	450	Ø13	M12×30
	CH530-500-T4								
SIZE N	CH530-560-T4	620	1130	1800	1170	1080	500	Ø13	M12×30
	CH530-630-T4								
	CH530-710-T4								

Notes

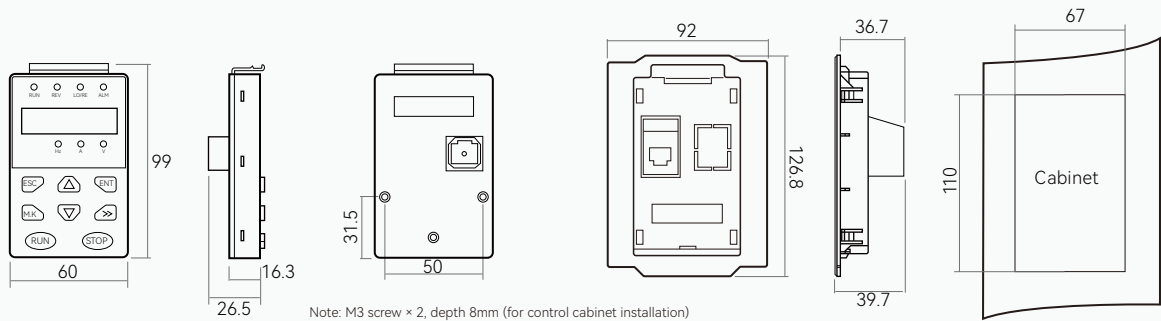
- (1) B2 and H2 are the installation dimensions when including the reactor base (DC reactor is standard for SIZE J1 and above).
- (2) Φd is the diameter of the mounting screw hole for the complete unit.



Outline dimension drawing for models within SIZE A

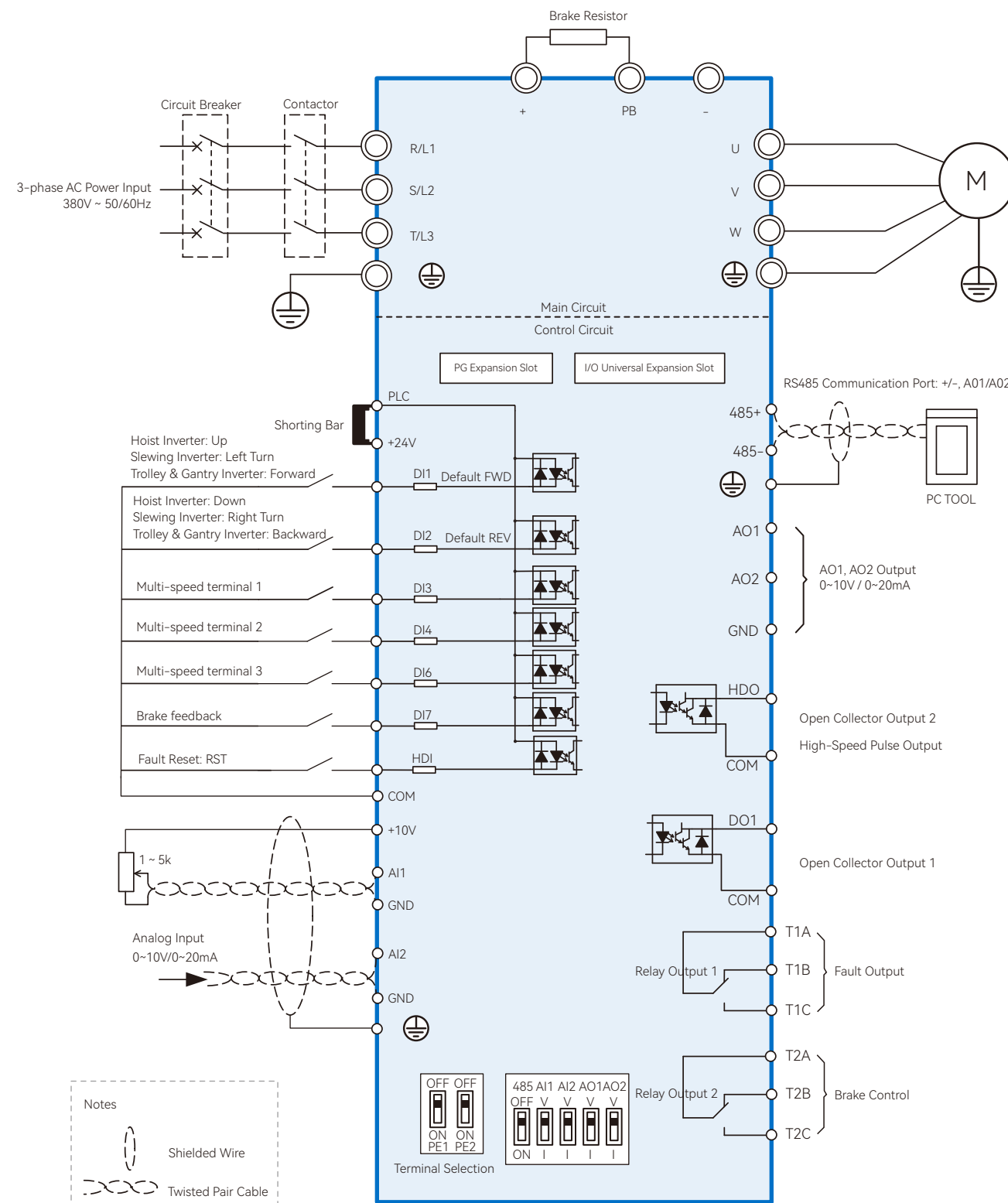


Outline dimension drawing for models of SIZE J1 and above



Outline dimension drawing for operation keypad and keypad bracket

Unit: mm



Wiring Diagram for Hoisting, Slewing and Travelling (Trolley/Crane) Mode Control Circuits

AFTER-SALES SUPPORT

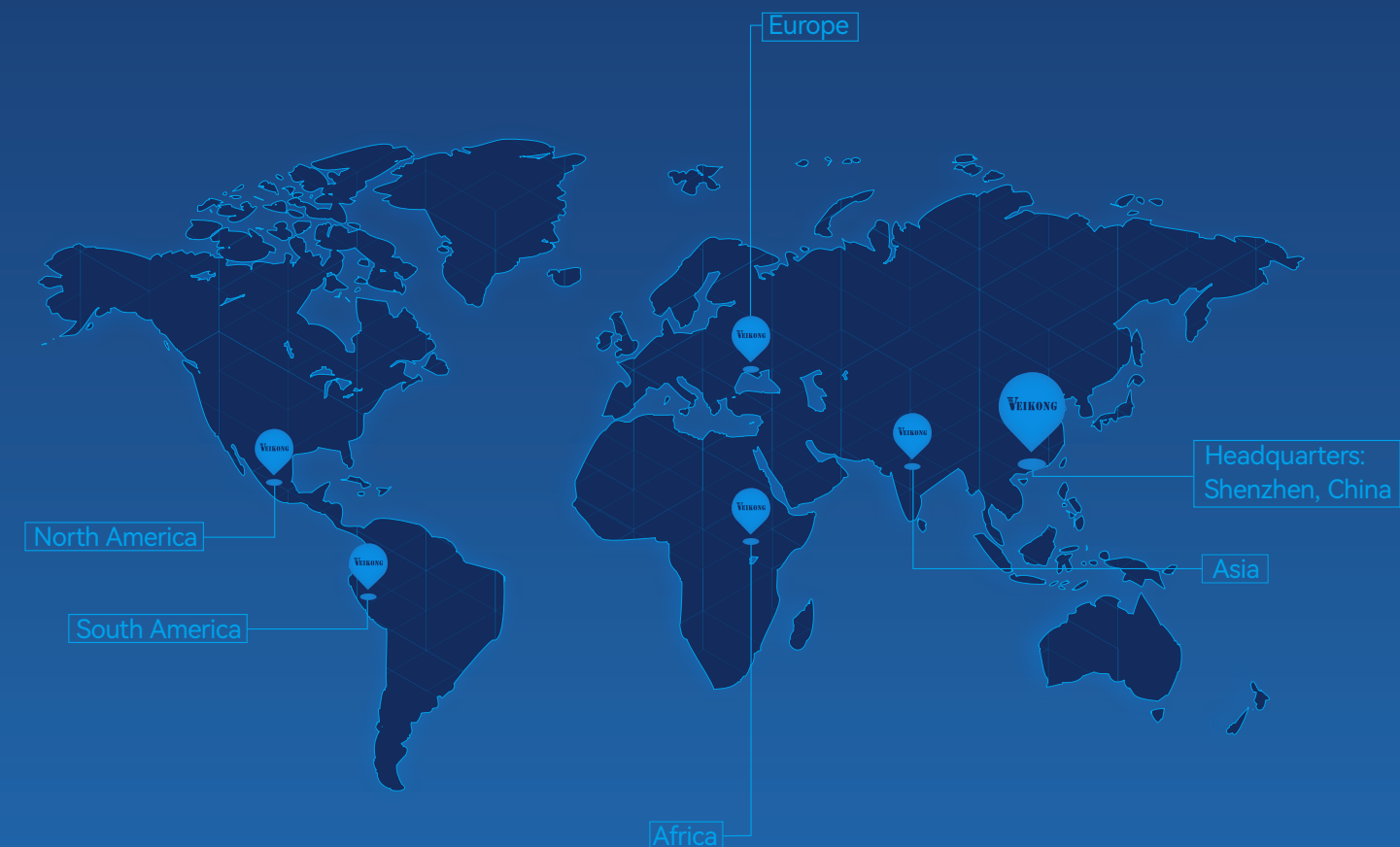
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