About HNC Electric

HNC Electric is an automation & drive focused global company, providing global customers with control, display, drive and system solutions & other related products and services, under the support of its excellent electrical and electronic technology as well as strong control technical force.

HNC Electric listen and understand our clients requirement, by improving and upgrading our product functions and performance continuously, we provide and develop perfect products and solutions according to different requirement of the industry. Our products have been used and applied successfully in packing, printing, textiles, plastic injection, elevator, machine tool, robot, wood cutting, stone carving, ceramic, glass, paper making industry, crane, fan & pump, new energy resources etc.

In order to provide more complete service and product for our customers internationally, meeting our customer expectations in the respect of time of delivery, solution support, after sales services and product customization support, HNC Electric has been searching for capable companies as our business partners, product agents and distributors, bringing good product quality and professional service to our clients globally. Up until now, we have already got customers and business partnerships built up in over 40 countries, which include Europe, North America, South America, Asian-pacific region, Middle East and Australia etc.

The superior quality and low cost of HNC Electric’s product are benefited from the mature and complete manufacturing system and the efficient logistic of China. Our talented and sufficient manpower, our rich engineering experiences, drives our product to be more complete and better in the respect of functions and performances.

HNC Electric, your professional electrical partner!

Mission & Vision

To give our customers a competitive products and solutions in automation industry.
To integrate and value the national automation industry while supplying one-stop service to the worldwide customers.
To be a leading venture in automation industry based on honesty and innovation philosophy.
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### Programmable Logic Controller

#### HC-A1 Series Economic Standalone Micro PLC
- Controllable I/O: 10~30 points, Main Unit I/O: 10/14/20/30 points
- Fully compatible with Mitsubishi FX1S
- Compact design for small installation space
- Built-in two Interface (RS422 & RS485/RS422)
- 2 pulse train outputs (100KHz) for transistor unit (MT)
- Integrated power supply (AC or DC powered)
- Maintenance-free EEPROM memory
- Built-in positioning control
- Integrated real-time clock

#### HC-A2 Series Economic Expansionable Micro PLC
- Controllable I/O: 14~128 points, Main Unit I/O: 14/24/40/60 points
- Built-in two Interface (RS422 & RS485/RS422)
- Fully compatible with Mitsubishi Fx1N
- Provide I/O, analog & communication expansion
- 2 pulse train outputs (100kHz) for transistor unit (MT)
- Expandable terminal-type I/O
- Add-on analog control and communication functionality
- All DC powered models support 12V to 24V power supplies
- Integrated real-time clock
- System flexibility with expansion boards, special adapters, extension I/O, and special function blocks

#### LX1S Series Programmable Logic Controller
- Economic Standalone Micro Control for general applications
- Controllable I/O: 10~30 points, Main Unit I/O: 10/14/20/30 points
- Fully compatible with Mitsubishi FX1S
- Compact design for small installation space
- Built-in two Interface (RS422 & RS485/RS422)
- 2 pulse train outputs (100KHz) for transistor unit (MT)
- Integrated power supply (AC or DC powered)
- Maintenance-free EEPROM memory
- Ample memory capacity (2000 steps) and device ranges
- Built-in positioning control

#### LX1N Series Programmable Logic Controller
- Economic Expansion Micro Control
- Controllable I/O: 14~128 points, Main Unit I/O: 14/24/40/60 points
- Built-in two Interface (RS422 & RS485/RS422)
- Fully compatible with Mitsubishi Fx1N
- Provide I/O, analog & communication expansion
- 2 pulse train outputs (100kHz) for transistor unit (MT)
- Expandable terminal-type I/O
- Add-on analog control and communication functionality
- All DC powered models support 12V to 24V power supplies
- Integrated real-time clock
- System flexibility with expansion boards, special adapters, extension I/O, and special function blocks
Programmable Logic Controller

**A8 Series programmable logic controller**

- Ultra-high speed small PLC, dual core processor
- Controllable I/O: 16-384 points (with CC-Link remote I/O)
- Main Unit I/O: 16/32/48/64/80/128 points
- Built-in 4 Pulse Train Outputs (100KHz / 200KHz)
- Built-in 6 100kHz & two 10kHz high speed counter
- Built-in 3 Communication Ports (RS422, RS232, RS485)
- Built-in 64K Flash ROM
- Built-in high speed processing and positioning
- Exchangeable communication expansion boards that mount directly into the main unit (USB, RS-232C, RS-422, RS-485)
- Simultaneous memory cassette and display module mounting available
- Integrated real-time clock
- Easy programming with large instruction set and table positioning configuration

**A8C Series programmable logic controller**

- Ultra-high speed small PLC, modular design
- Main Unit I/O: 16/32 points
- Controllable I/O: 16 points (Terminal block type)
- 32 points (Connector type)
- 8 relay input/output points, built-in 2 communication ports
- 8 (16) transistor input/output points. No positioning, built-in 2 communication ports
- 8 transistor input/output points, 2~4 Pulse Train Outputs (100KHz), 2 communication ports
- 8 transistor input/output points, 4-axis differential 200KHz, 2 communication ports
- 16 transistor input/output points, 2~4 axis positioning, 2 communication ports
- 16 transistor input/output points, 4-axis differential positioning, 2 communication ports

**A2C Series programmable logic controller**

- High speed micro PLC, modular design
- Main Unit I/O: 8 DI / 8 DO (replay or transistor)
- Compatible with all A8C extension blocks
- Built-in 2 communication ports
- 6 channels high speed counter
- 2 channels 100k Hz pulse output
- Non-power programming
- Inductive load protection diode
## Expansion Modules

### HCA8C Left Extension Blocks

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Name</th>
<th>Description</th>
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<td>HCA8C-4DA-ADP</td>
<td>Analog output block</td>
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<tr>
<td>HCA8C-3A-ADP</td>
<td>Analog input/ output block</td>
<td>HCA8C-4PT-ADP</td>
<td>Pt100 temperature sensor input block</td>
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### HCA8C Right Extension Blocks

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<td>Analog output input block</td>
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<td>HCA8C-4AD2DA</td>
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<td>Platinum resistance input block</td>
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<td>HCA8C-2LC</td>
<td>Weighing and tension input block</td>
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<td>Pulse positioning block</td>
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<td>HCA8C-4GP</td>
<td>Pulse positioning block</td>
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### HCA8C Right I/O Extension Blocks

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### TX1N Expansion board

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<td>TX1N-2AD-BD</td>
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<td>TX1N-485BD-2</td>
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<td>TX1N-232BD</td>
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<td>TX1N-4EX2EYT-BD</td>
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### TX2N Right Extension Blocks

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<tbody>
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<td>TX2N-2AD</td>
<td>Analog input block</td>
<td>TX2N-2DA</td>
<td>Analog output block</td>
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<tr>
<td>TX2N-4AD</td>
<td>Analog input block</td>
<td>TX2N-4DA</td>
<td>Analog Output Block</td>
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<tr>
<td>TX0N-3A</td>
<td>Analog Input / Output Extension Block</td>
<td>TX2N-1PG</td>
<td>IPulse output block</td>
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### HCA8 Right Extension Blocks

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<td>Analog output block</td>
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<tr>
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<td>Platinum resistance input block</td>
<td>HCA8-4TC</td>
<td>Thermocouple sensor input block</td>
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</table>
180XP Series CNC controller for turning and milling machine tools

1. Maximum interpolation axes: 3
2. Compatible with various AC servo drives
3. Configured with DI (32) and DO (24) interfaces, hand-held unit interface, simulation spindle control and encoder interfaces
4. Adopting 7-inch monochrome or color LCD (resolution: 320 x 240)
5. Adopting international standard G-code programming mode and compatible with popular CAD or CAM automatic programming systems,
6. Provide function for constant small line segment machining, which is suitable for part processing of complicated modules
7. With the function for breakpoint save and machining recovery
8. With the functions for backlash compensation and single or bi-directional pitch error compensation to improve the machining precision
9. USB interfaces to achieve easy and fast data access

602/606 Series CNC controller for turning and milling machine tools

1. Maximum Coordinate axes: 5
2. Maximum interpolation axes: 4
3. Adopting high-speed ARM / DSP / FPGA / hardware interpolation technology
4. Max speed: 60m/min, Feed speed: 0.01…30m/min
5. USB interface, RS232 interface
6. Memory for part program: 32M, No limit of the program quantity
7. Program pre-load for small line segment machining, ensure the continuous machining
8. Max Thread pitch: 1000mm
9. 54 series of G code, satisfy all kinds of machining
10. Automated Tool compensation, C tool compensation function
11. Automated chamfering and rounding function
12. Two-channel analog output, allow to control two spindle
Human Machine Interface

TP 2000 Series touch screen

1. With multi-action switch, one key can control various actions
2. Various alarms function: alarm display, alarm record, floating alarm
3. System monitoring, recipe function, Clock function
4. 2 units connected
5. Various languages available
6. Easily updating to new functions with communication software
7. High cost-performance ratio
8. Various size for selection
9. Pre-set OS
10. USB function,
11. Ethernet option
12. Support various PLC brands

TP2504-TFT
4.3 Inch

TP 2507- (E)
7 Inch, with Ethernet Option

TP 2510- (E)
10.1 Inch, with Ethernet Option

Text Panel

1. Adopting ARM CORTEX-M3 32-bit RISC processor, high-speed and smooth
2. Double communication ports, supporting simultaneous connection of different PLC or controller, fast communication
3. Wrapped with high-speed USB interface to download the configuration to facilitate debugging, upgrading and quantity production
4. Metal dome film button, several millions of touch operation
5. Supporting off-line simulation, Facilitating debugging
6. Supporting vector fonts and multiple language
7. Supporting 8-level user password levels
8. Providing factory batch downloading tools, no need to open configuration documents, preventing mistaken modification

TP930-24V
4.3 Inch
Servo Motor / Drive

SV-X3 Series High Performance Servo System

1. AC 220V 3 phase or Single phase PMSM servo drive
2. Power range: 50W~2KW
3. Control mode: speed / torque / position control
4. With Absolute or incremental 17-bit magnetic encoder
5. brake & seal & key option
6. Low & middle & high inertia servo motor option
7. Advanced vibration suppression control
8. SV-Tune professional software for commisioning
9. Auto- tune function
10. RS-485 communication

HSD2 Series General Purpose Servo Drive

1. AC 220V 3 phase or Single phase PMSM servo drive
2. Power range: 200W~5.5KW
3. Control mode: speed / torque / position control
4. Velocity loop bandwidth up to 300Hz for high response and dynamic applications
5. Could be controlled by three kind of pulse / analog / IO / Jog
6. Best cost performance in the market

HSV-180AD Series AC400V Servo Drive

1. AC 400V PMSM High Performance digital servo drive,
2. Power range: 3.0KW~45KW
3. Easy and flexible control (five control modes)
4. Full state display
5. Various interface and control modes
6. Applicable to situations that requires high speed and high power
7. Double encoder interfaces that can be connected to position feedback components such as grating ruler to form full-closed loop position control system
HSV-180AS Series AC400V Spindle Servo Drive

1. AC 400V Spindle High Performance digital servo drive,
2. Power range: 3.0KW~45KW
3. Easy and flexible control (five control modes)
4. Complete functions for CNC spindle control
5. Various interface and control modes
6. Applicable to situations that requires high speed and high power
7. Double encoder interfaces that can be connected to position feedback components such as grating ruler to form full-closed loop position control system

HSM Series AC 220V / 380V Servo Motor

1. Torque range: 0.3Nm to 2500Nm,
2. Rated speed: 1500 / 1700 / 2000 / 2500 / 3000rpm
3. Ultra energy saving
4. High response and accuracy
5. Low noise & low temperature rise
6. High reliability, less maintaining work caused
7. Feedback option: 2500PPR encoder, single/multi stage resolver, 17-bit encoder
8. Cooling method: natural, fan, water/oil
9. Flexible customizing is available.
10. With customization option for rated speed and rated torque

GM7 Series Spindle Servo Motor

1. Power range: 1.5kW to 132Nm,
2. Rated speed: 750 / 1500 / 3000rpm
3. Compact structure, small size, light weight, and high power density
4. Special design, small electromagnetic vibration, low noise, high rotation precision, constant torque and wide constant power speed range
5. Uniform air gap, high-precision balance, small torque ripple
6. Fully sealed design, high protection class (Ip54)
7. Special Class F insulation, anti-surge current and anti-corona, long life, and reliable operation
8. High price and performance ratio
Variable-frequency Drive

HV350 Series Mini Size Vector Frequency Inverter

1. AC single phase 220V, 0.4~1.5kW
2. AC three phase 380V, 0.75~2.2kW
3. High-performance current vector control, V/f control
4. Mini size housing to fit small installation space
5. Rich peripheral interfaces
6. Various application functions, e.g. PID, textile swing
7. Completed protection functions
8. Provides RS485 serial communication interface, standard Modbus
9. Products meet the EMC (EN61000-6-4, EN61800-3) standards

HV450 series general purpose SVC frequency inverter

1. AC 3 phase 220V/380V/460V, AC Single phase 220V
2. Power rating range:
   3 phase 0.75 - 630kW, Single phase 0.4 - 2.2 kW
3. High-performance current vector control, V/f control, torque control
4. Rich peripheral interfaces
5. Extendable control keyboard
6. G/P unification
7. 7 Programmable DI terminals
8. Built-in input DC reactor (18.5KW and above model)
9. 16 segments multi-speed control, PID control, wobble control
10. Provides RS485 serial communication interface, standard Modbus
11. Products meet the EMC (EN61000-6-4, EN61800-3) standards

HV550 series high performance FVC frequency inverter

1. AC 3 phase 220V/380V/460V, AC Single phase 220V
2. Power rating range:
   3 phase 0.75 - 630kW, Single phase 0.4 - 2.2 kW
3. High-performance current closed-loop and open-loop vector control, V/f control, torque control
4. High torque in low frequency (150% rated torque at 0.5Hz)
5. Rich peripheral interfaces, Extendable control keyboard
6. G/P unification
7. Various accessories, e.g. water supply card, Injection molding machine card
8. 7 Programmable DI terminals
9. Built-in input DC reactor (18.5KW and above model)
10. 16 segments multi-speed control, PID control, wobble control
11. Provides RS485 serial communication interface, standard Modbus
12. Products meet the EMC (EN61000-6-4, EN61800-3) standards
Variable frequency Drive

HV580 Series High Performance Vector Frequency Inverter

1. AC 380V / 460V 3 phase Frequency Inverter
2. Power range: 0.75 ~ 110KW
4. Supports a variety of encoder
5. To protect the mechanical torque limitation
6. High starting torque feature
7. Superior responsiveness
8. Motor overheating protection
9. Prompt current limit function
10. Multi-motor switch
11. Inverter non-stop while Instantaneous electricity failure
12. Virtual IO functionality
13. Flexibility use of analog input and output
14. Resistance to environmental design
15. Rich functions
16. Frequency source is more abundant
17. Much richer information display
18. More powerful protection
19. More streamlined parameter

HSS Series Soft Starter

1. Stable quality with attractive price
2. AC Three-phase 220V/380V/480V, 50/60Hz
3. Advanced soft starter type: "voltage control type" and "current limiting type"
4. Capacity to Motor effectively, so it could save the cost.
5. Intelligent, digital and single chip control.
9. Can reduce the starting stress of motor and other loading equipments, so that lengthen their service life.
10. The function of soft stopping can solve effectively the surging problem of inertia system when stopping.
11. The perfect and reliable protection features, can give the effective protection to the operator’s safety as well as the motor and matched equipments.
1. Power supply: 3 phase, AC, 3kV / 3.3kV / 4.16kV / 6kV / 6.6kV / 10kV / 11kV / 13.8kV
2. Power range: 315 ~ 8000KW
3. Compact design
4. Fully equipped
5. Restricted access to medium voltage area
6. Standard HD HMI monitoring maximizes user convenience
7. Improved power quality, perfect Energy saving
8. High Reliability and Easy Maintenance
9. Torque limiting function
10. Spinning start (Flying start)
11. Automatic power cell bypass option
12. Low voltage ride-through (LVRT)
13. Synchronous transfer
14. High performance Sensorless vector control
15. Master-Slave control
16. Automatic parameter identification (Auto-tune)
17. Much richer information display
18. More powerful protection
19. More streamlined parameter

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<th>3.3kV &amp; 4.16kV class</th>
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<td>6.6kV class</td>
<td>10kV class</td>
<td>11kV class</td>
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<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
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