

ACPL is a 30-years young organization driven by passion for machine automation. For the past 15 years, we have proudly achieved a remarkable milestone by successfully integrating **ADTECH CNC controllers** with **SIEMENS servo** across numerous industries. Now, we are stepping into the future with **BERGERDA CNC Controller**.

ACPL has established a strong and trusted partnership with **BERGERDA** powered by **EtherCAT[®]** communication, perfectly synchronized with **invrt servo** systems. This combination is highly reliable, cost-effective and ideal solution for modern automation needs.



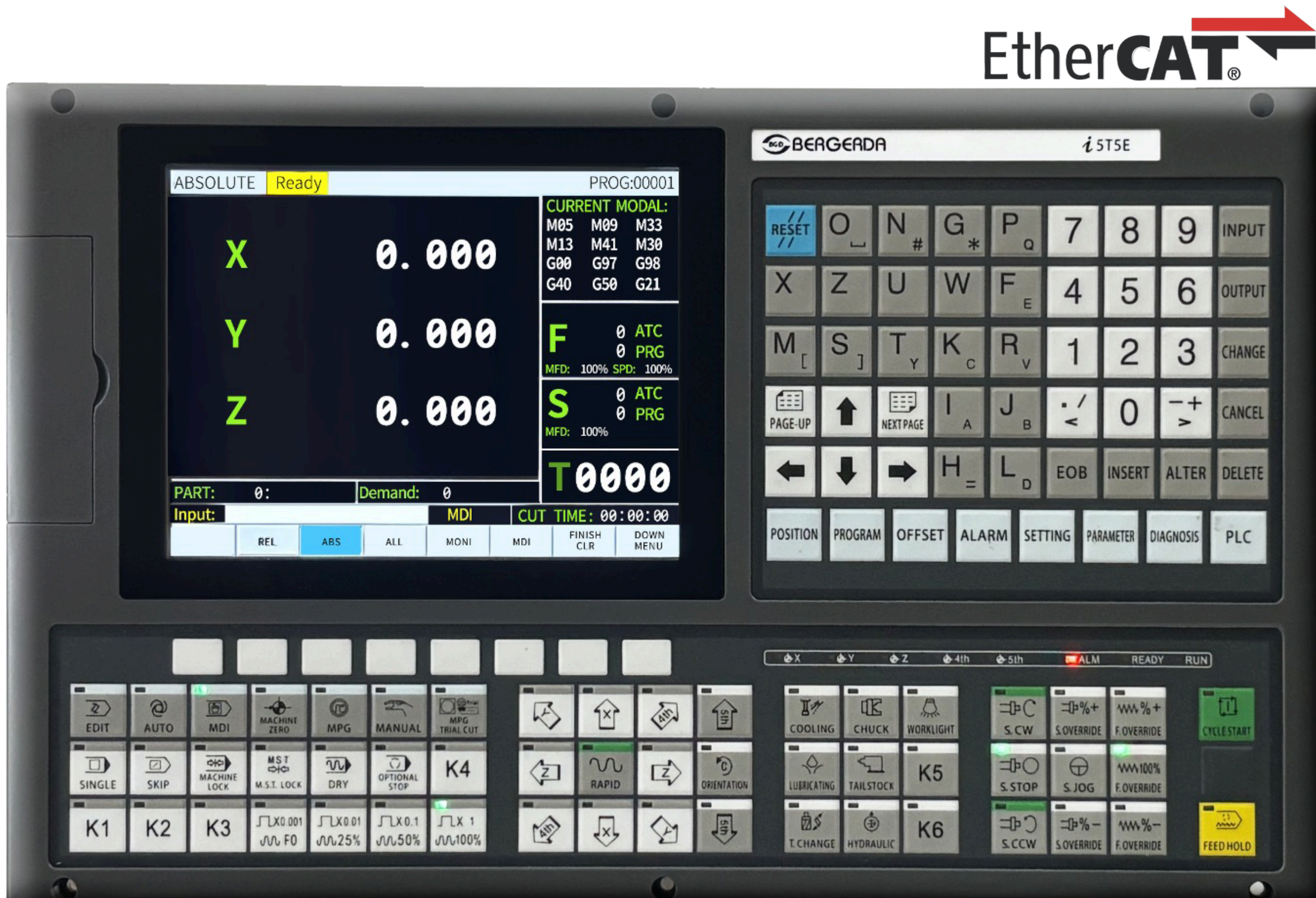
BERGERDA CNC controllers featuring an **8-inch** wide LCD display, a powerful hardware platform, and cutting-edge control algorithms, they deliver unmatched efficiency and micrometer-level precision. With full **EtherCAT** support, our systems ensure seamless, high-speed communication for next-generation automation.

Our Team has 15+ years of hands-on expertise, our team of skilled engineers is always just one call away. Whether it's lathe & turning, milling, drilling, engraving, punching, or SPMs, our engineers provide prompt and practical solutions. support is not a promise, it's a guarantee. Time is money, and we value both.

ACPL ensures ready stock availability of CNC controllers, Once you collaborate with ACPL, you gain a long-term automation partner who delivers world-class quality, prompt service and fastest dispatch of complete CNC panel.

i5T5E

Lathe / Turning Controller



- Controlled axes: **5 feed Axes**, 0V~10V analog voltage + Pulse spindle
- Linked axes: 5 linear axes, **2 arc axes**, Support **EtherCAT** control function
- **8-inch** widescreen LCD, resolution 800X600, 8 soft function keys
- G10 command online modification of tool compensation, parameters and other operations, G165 linear chip breaking processing
- Macro programs A and B, allowing 4 nesting Program preprocessing, can achieve smooth and seamless connection between program segments
- Maximum rapid moving speed can reach 60m/min
- 128M ultra-large running memory, 256M storage space
430M program storage space, can store 400 programs
- Screw pitch compensation, maximize machining accuracy
- The system uses a new 32-bit high-performance CPU processor with a main frequency of 600MHz and an ultra-large-scale programmable device FPGA
- The editable PLC makes the logic control function more flexible and powerful. It **supports 23-bit absolute** encoder servo motors
- supports **power-off memory** real-time mechanical position function, with high precision and no need to return to zero.
- High-end hardware platform plus advanced control algorithms to ensure high efficiency of the system at um-level precision.

i5M5E

Milling / Drilling CNC Controller

EtherCAT



- Controlled axes: **5 feed axes**, 0V~10V analog voltage + Pulse spindle
- Linked axes: 5 linear axes, **3 arc axes**, Support **EtherCAT** control function
- Support fixed cycle, **Drilling cycle**, **rigid tapping**, any tool magazine function.
- **8-inch** widescreen LCD, resolution 800X600, 8 soft function keys.
- Open PLC, support secondary development and the editable PLC makes the logic control function more flexible and powerful.
- G10 command online modification of tool compensation, parameters and other operations, Program preprocessing, can achieve smooth and seamless connection between program segments
- Maximum fast moving speed can reach 60m/min, maximum cutting speed can reach 30m/min
- 256M large running memory, 512M storage space. 430M program storage space can store 400 programs, one program maximum 10M
- system uses a new 32-bit high-performance CPU processor with a main frequency of 600MHz and a large-scale programmable device FPGA
- Support **23-bit absolute** encoder servo motor, support power-off memory real-time mechanical position function, high precision, no need to return to zero.
- High-end hardware platform and advanced control algorithm to ensure the high efficiency of the system under um-level precision.

i5M5E

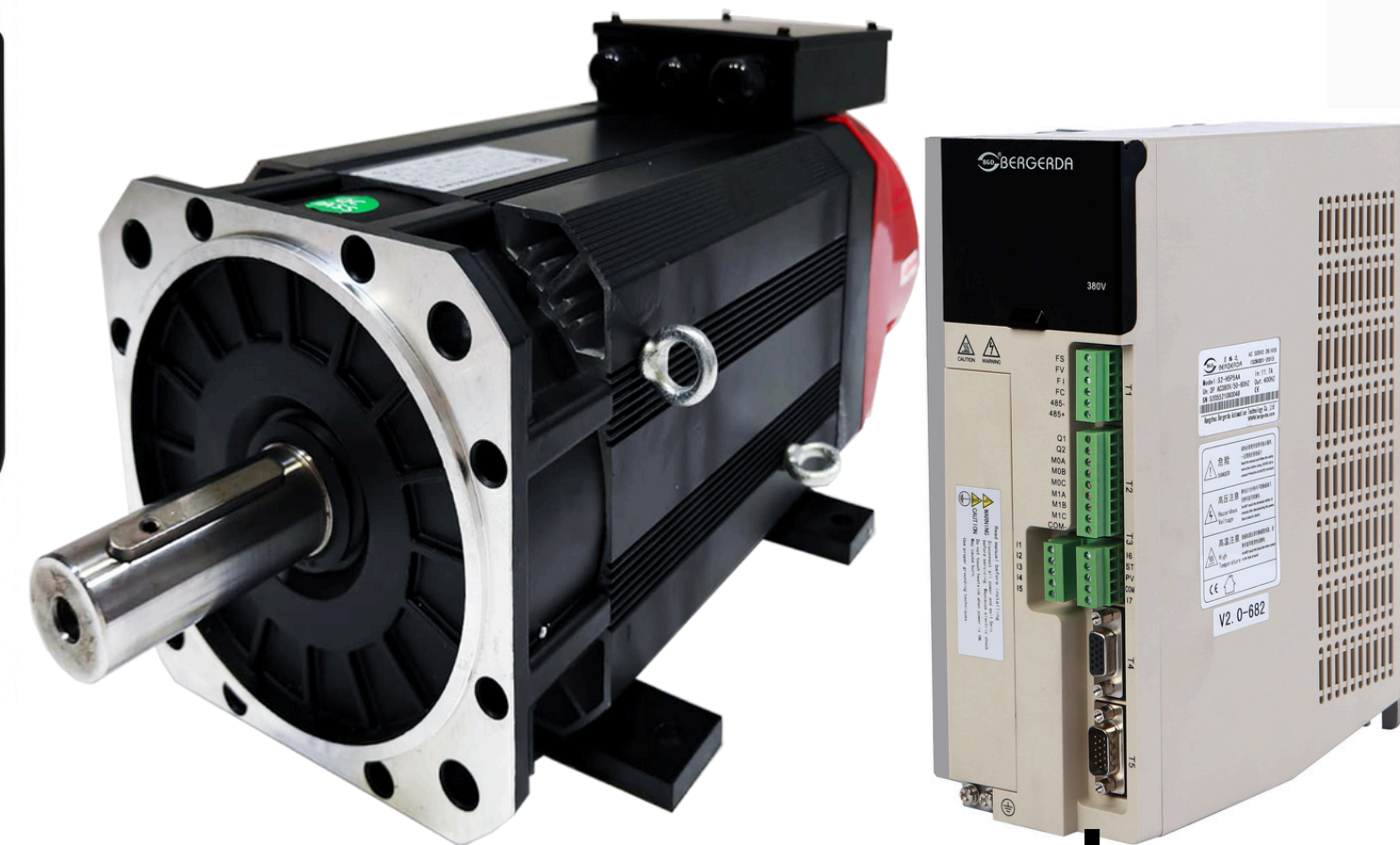
Milling / Drilling CNC System configuration



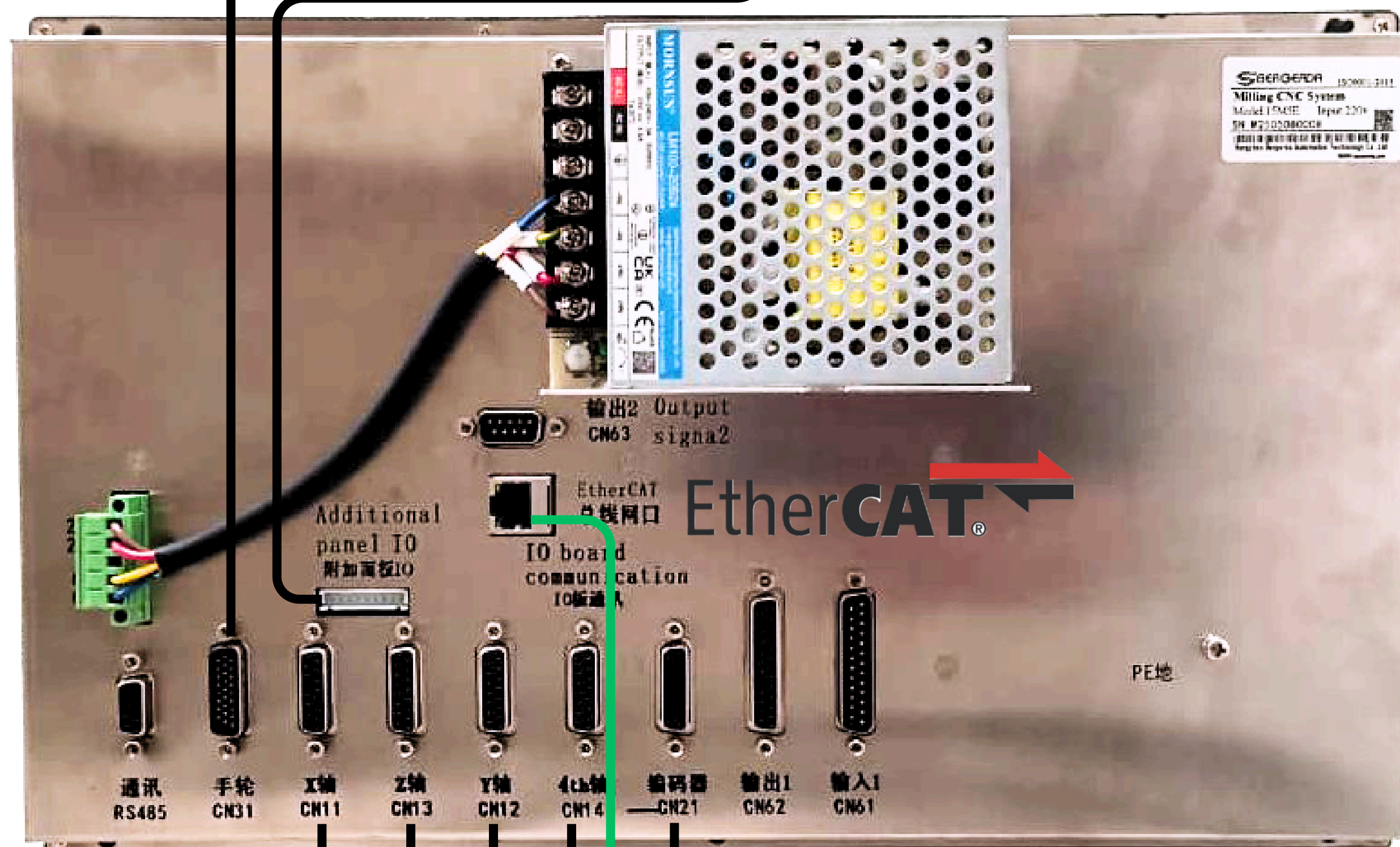
MPG



Servo Spindle



CNC CONTROLLER



Pulse type



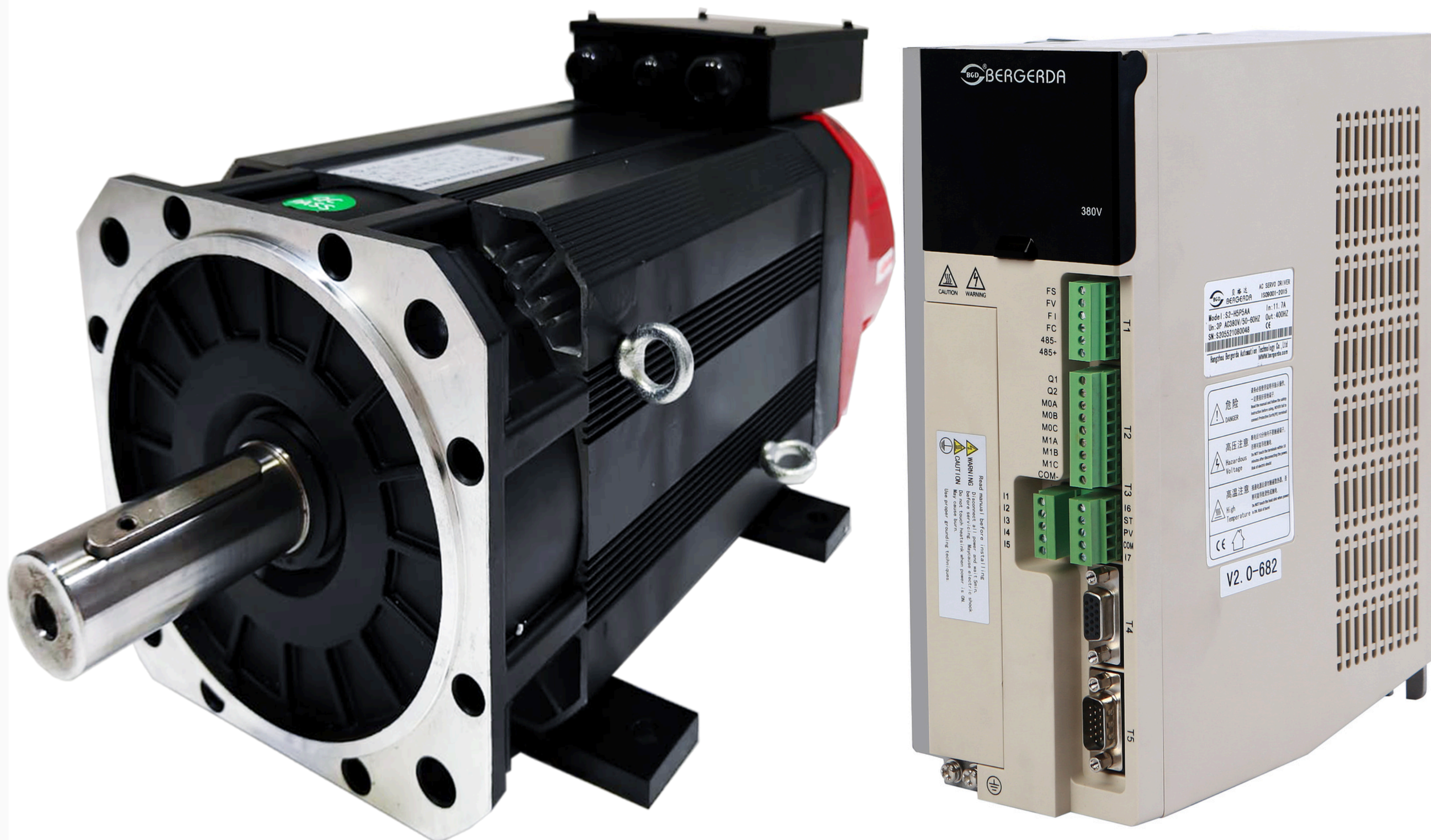
EtherCAT

invT Servo Motors



BERGERDA

Servo Spindle Motor and Servo Drive



Spindle

2.2 KW

3.7 KW

5.5 KW

7.5 KW

11 KW

Key Features:-

- Matching Incremental, Absolute Encoder, Supports External Second Encoder Control Positioning
- The maximum speed of 6000 rpm, 6000 speed can be achieved at any angle precise positioning
- Rigid tapping, external switch direct positioning
- Concise display operation panel, supporting PC debugging software for customer debugging and diagnosis
- With RS485 communication function, low-cost communication can be realized
- Book-type structure, compared with the appearance of the traditional inverter style, it save more space in the cabinet, more atmosphere.

Application:-

- S series induction asynchronous servo drives have features of high power and high torque. And can achieve High speed, high acceleration performance. With a wide range of tapping, orientation, clamping, reduction ratio, analog control, internal speed control and other functions

Application industry:-

- CNC milling machine, CNC lathe, vertical and horizontal machining center, drilling and tapping center, engraving and milling machine, hobbing machine, CNC boring machine, turning and milling complex machining center, replacing the high-end applications of the inverter.