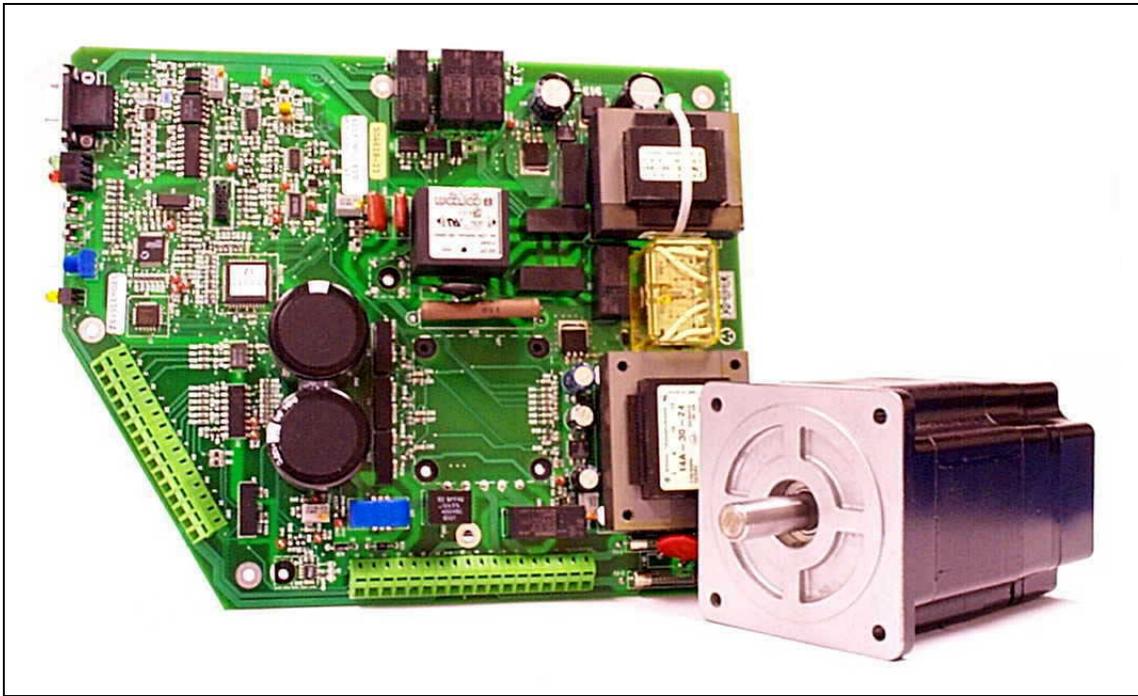




## Announces Intelligent Servo Drive (ISD)



The ISD is a concept more than it is a product. IIS has developed a series of building blocks that can be easily combined in a custom design to produce an intelligent motion control system for large volume OEM's. These building blocks, both hardware and software, enable IIS to provide OEM's with a low cost motion control system optimized specifically for their application. The ISD does not lend itself to a standard datasheet or low volume applications because it requires engineering resources to combine the building blocks in unique ways for a specific application.

One of the strengths of the ISD is that it does **not** have a standard board layout or packaging configuration. The OEM gets to optimize the function and form of the ISD thereby providing the most cost effective, proprietary solution.

### Building Blocks Include:

- Servo Driver with brushless servo motor
  - Up to 750W Continuous, 1500W Peak
  - 15 KHz PWM frequency
  - Encoder Feedback
  - Trapezoidal commutation
  - Hall effect or encoder UVW tracks
  - Under/over voltage sensing
  - Short circuit protection
  - Over temperature protection

- Variable Frequency Drive with 3PH 230 VAC motor (VFD)
  - Up to 750W Continuous, 1500W Peak
  - 15 KHz PWM frequency
  - V/F Control
  - Under/over voltage sensing
  - Short circuit protection
  - Over temperature protection
- Motor bus power supply: 320 VDC nominal
- Regeneration circuit
- Logic and I/O power supplies
- 24 VDC Isolated I/O points
- Analog I/O (12 bit resolution)
- 8051 Microprocessor core with flash memory
- High speed serial buses for expansion and special functions
- RS232 and RS485 Serial communications to various external devices
- Safety relays & ESTOP
- UL/CE compliant design
- Velocity, position and torque control
- I/O sequencing
- Operator display and keypad functions
- Simple LED or 7 segment status/error displays
- Programmable in assembly language or C via JTAG port

Typically, IIS develops the software and hardware based on a firm specification for a Non Recurring Engineering fee. The software is then turned over to the OEM including training. The OEM can then make future software changes with existing in house staff or contract IIS to make changes or upgrades. In either case the OEM owns the rights to the software and to the particular hardware configuration developed for that OEM. IIS retains the rights to the core technologies used in the ISD and will provide schematics with the appropriate non-disclosure agreement.

Each ISD is a private labeled device. IIS will protect the OEM, guaranteeing that the after market sales are routed through the OEM. IIS is also willing to private label servo motors used with the ISD.

Specifications subject to change without notice

**For more information, please contact Industrial Indexing Systems at:**  
**626 Fishers Run, Victor, NY 14564**  
**Phone: (585) 924-9181 ● Fax: (585) 924-2169**  
**Email: [info@iis-servo.com](mailto:info@iis-servo.com)**  
**Web: [www.iis-servo.com](http://www.iis-servo.com)**