

Digitized Automation for a Changing World

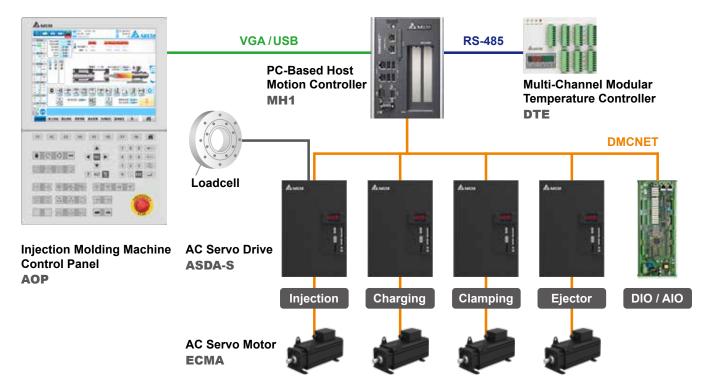
All-Electric Injection Molding Machine Solution



All-Electric Injection Molding Machine Solution

Due to the rapid advancement of mold design techniques, manufacturers require high-end injection molding machines with higher speed and precision to produce refined plastic and rubber products. Compared with traditional systems, all-electric injection molding systems feature higher precision and reproducibility, as well as energy-savings, low noise, and eco-friendliness, and have become an new trend in the industry.

Delta has launched the All-Electric Injection Molding Solution to fulfill customer needs for cutting-edge machinery. This solution adopts a distributed control structure and provides a flexible control system that allows customized development for various customers. The built-in smart injection functions of the ASDA-S Series servo drives enhance system response speed and deliver high performance, high precision and high stability for injection molding control.

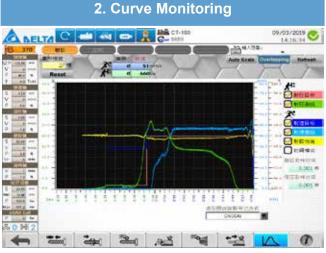


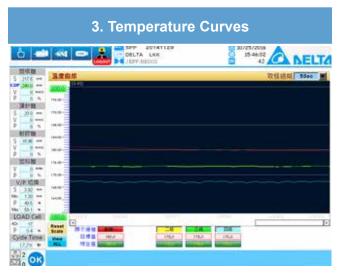
Delta Total Solution

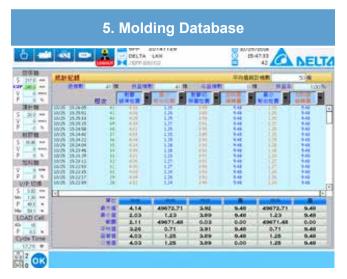
- High-speed DMCNET fieldbus with response speed < 1ms
- Loadcell signal feedback is directly sent to the servo drives with Delta's distributed control system. 62.5 µs high-speed response provides real-time adjustment of injection according to back pressure for precise molding
- 24-bit high resolution absolute encoder for high-precision and reproducibility
- S-curve function stabilizes vibration during motor start/stop to achieve smooth operation
- · Adopts low-inertia high-torque motors to enhance acceleration for injection axes
- Standard program templates for various applications: horizontal, vertical, multiple-component injection molding, and secondary injection unit
- Open platform for secondary development of HMI and PLC
- OPC UA/Euromap77 supported. Users are able to adopt DIAeBox for mold management and production monitoring

Programming Interfaces (Templates for the Injection Molding Industry)















Control System

- 15-inch 16M colors TFT touch screen
- CPU: Intel Atom E3845 Processor Quad Core 1.91GH
- Delta DMCNET high-speed motion communication protocol, response speed within 1ms
- DIO/AIO expansion cards for users to adjust the hardware I/O based on demands, achieving system flexibility
- Ladder as programming language
- Real-time online monitoring function and sequence diagnosis tools for quick program debugs
- User-friendly display editor for interface customization

Specifications



Model	MH1-A12D-A03DH
CPU	Intel Atom Processor E3845 Quad Core 1.91GH
RAM	DDR3L-1333, 4GB
Operating System	Windows 7 Embedded
Storage Device	32G CFast
USB	4 ports
Communication Port	RS232 × 1

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Model	AOP-J115P
Display	15″
Resolution	1024 × 768
Touch Screen	Resistive touch screen
Expansion Port	VGA × 1, USB × 3

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