

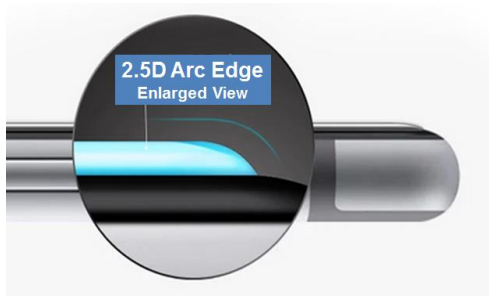
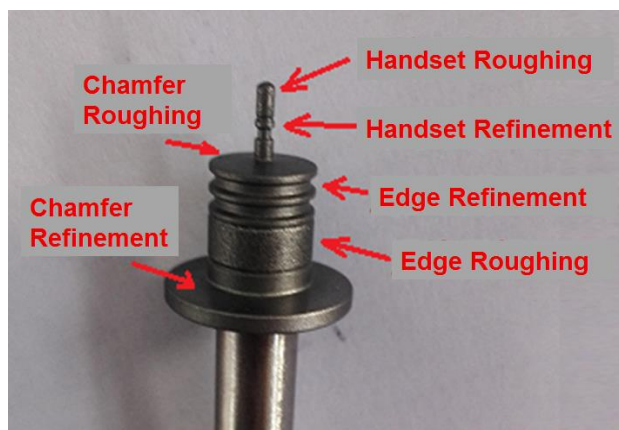
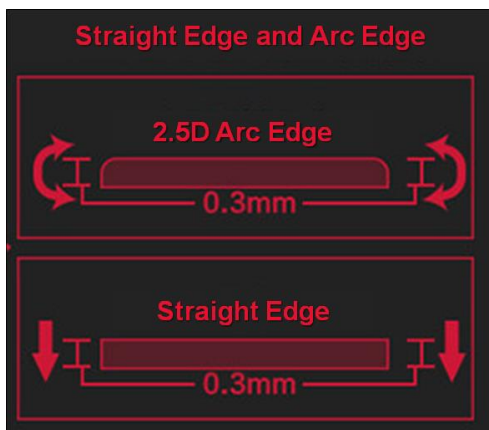
| | | | | | |
|---------------|---|------|--------------|-------|---|
| Case | Delta Industrial Automation Products for Glass Edge Grinding Machines | | | | |
| Issued by | Solution Center | Date | August, 2016 | Pages | 2 |
| Applicable to | CNC Solution | | | | |
| Key words | CNC, Glass Edge Grinding Machines | | | | |

Delta Industrial Automation delivers a complete CNC solution for glass edge grinding machines and ensures high speed, high precision and high quality machining outputs.

[Application Introduction]

Materials used for cellphone cases include PC (Polycarbonate), glass, porcelain and carbon fiber. Among these non-metal materials, glass is the most common one because of its unique features such as high transparency, high formability and smooth texture. 3D glasses are thin, light, transparent, anti-fingerprint, anti-glare, hard, scratch resistance and weather resistance. It also provides high flexibility to be made to various shapes and enhance the products' quality and user experiences.

Critical requirements for a glass edge grinding machining process include: 1. Edge burrs removing 2. Edge rounding 3. Automatic measurement of tools 4. Automatic measurement and correction of the workpiece 5. Dual Z-axis synchronous control.

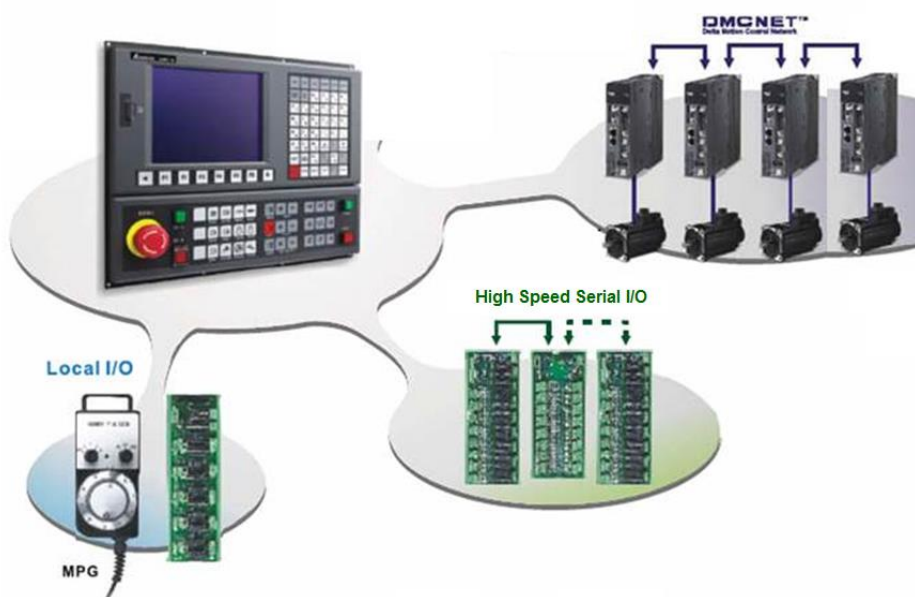


With solid experience and advanced technology, Delta Industrial Automation offers efficient and reliable solutions and service – we are your most trustworthy partner.

[Features of Delta's CNC Solution]

- Features a built-in 32-bit high speed and high processing dual CPU that can construct a real time and multi-functional control center
- With the aid of Delta's high-speed servo and spindle systems, high-quality digital data transmission can be achieved and noise suppression is enhanced
- Communicating with the Delta high speed motion control system DMCNET to achieve high speed and high precision control
- High speed multi-block look-ahead function helps users perform processing operation according to the preset feed rate and path. This can efficiently reduce processing time and effectively increase production speed.
- User-friendly human machine interface offers easy operation and effective monitoring. The CNC Controller can directly perform servo gain adjustment, drive parameters setup and backup
- The connection between a PC and an NC can be built through an Ethernet communication network. Users can access and manage files in a NC from a PC. The disk space on a PC can be accessed, stored and utilized in a NC as well. This enhances efficiency of data management and backup.
- CNC Soft software offers user-friendly setup support and allows users to build custom screens
- Capable of connecting serial digital I/O modules to greatly improve the extension capacity
- USB interface for convenient data storage, backup and parameter copies and saves installation times
- Connecting to the high performance, high resolution 20-bit servo motors ECMC series with up to 1kHz speed response frequency
- Built-in fine interpolation commands, friction compensation and full-closed loop control functions

[Structure of Delta's CNC Solution for Glass Edge Grinding Machine]

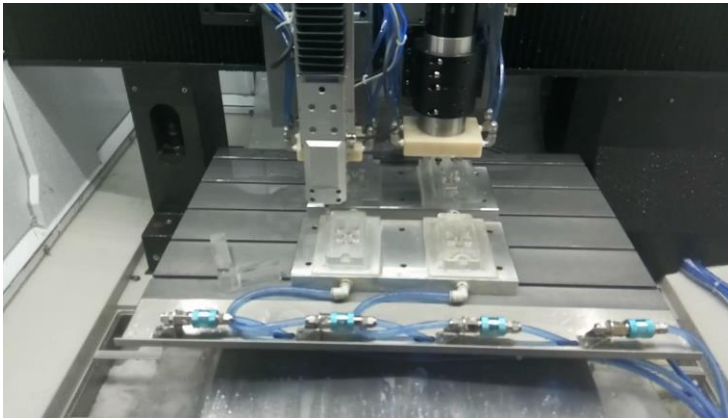


With solid experience and advanced technology, Delta Industrial Automation offers efficient and reliable solutions and service – we are your most trustworthy partner.

[Conclusion]

Delta provides a complete CNC solution including CNC controller, AC servo motors and drives, spindle motor and drive and the self-developed high speed communication system. The solution applies an embedded system with multiple CPUs to distribute multitasking and raise the operating performance of controllers. Combined with the Delta's high speed motion control system DMCNET, the Delta CNC Solution delivers a high speed, high precision system for exceptional performance while helping enterprises succeed in business with enhanced productivity and efficiency.

The Delta CNC Solution features high speed, high precision and superior surface finishing to enhance the speed, quality and stability of CNC machine tools. It is suitable for high-speed tapping, engraving and milling processes, tooling machine manufacturing, component processing as well as other manufacturing and related industries. With increasing challenges in the changing global market, the Delta CNC Solution delivers the ultimate in performance to help the machine tools industry excel and stay competitive through continuous innovation and customization.



For more information on Delta industrial automation products, please visit our website at: www.deltaww.com/ia

With solid experience and advanced technology, Delta Industrial Automation offers efficient and reliable solutions and service – we are your most trustworthy partner.