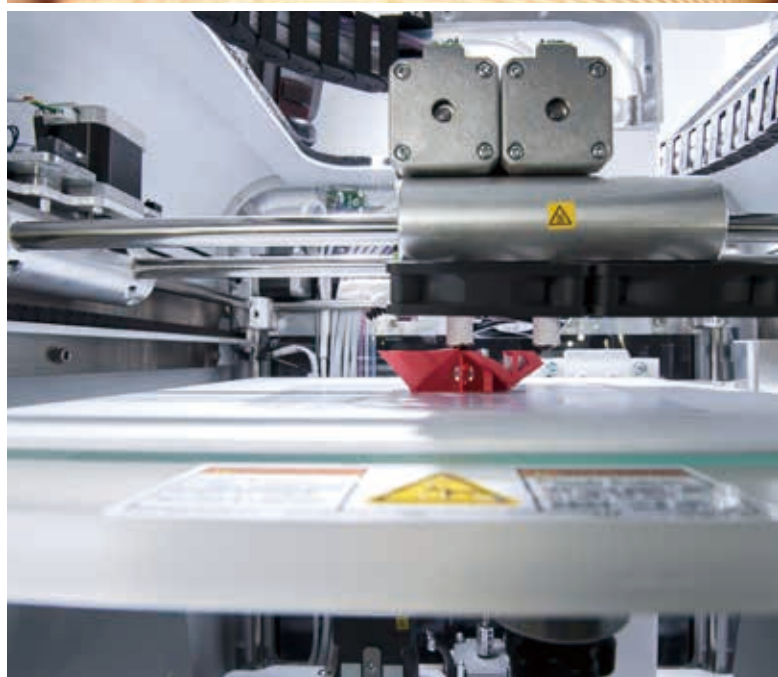
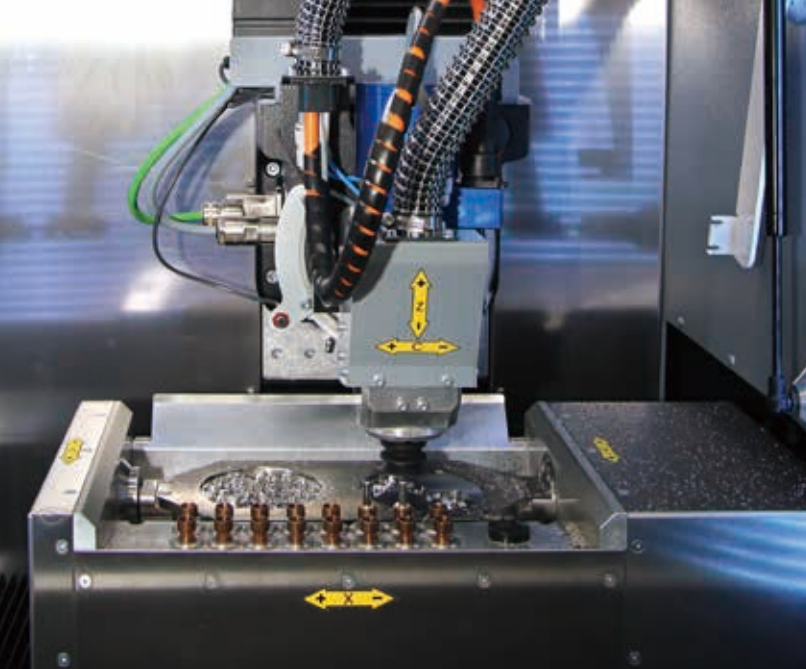




Automation for a Changing World

Delta OPEN CNC Controller NC E Series



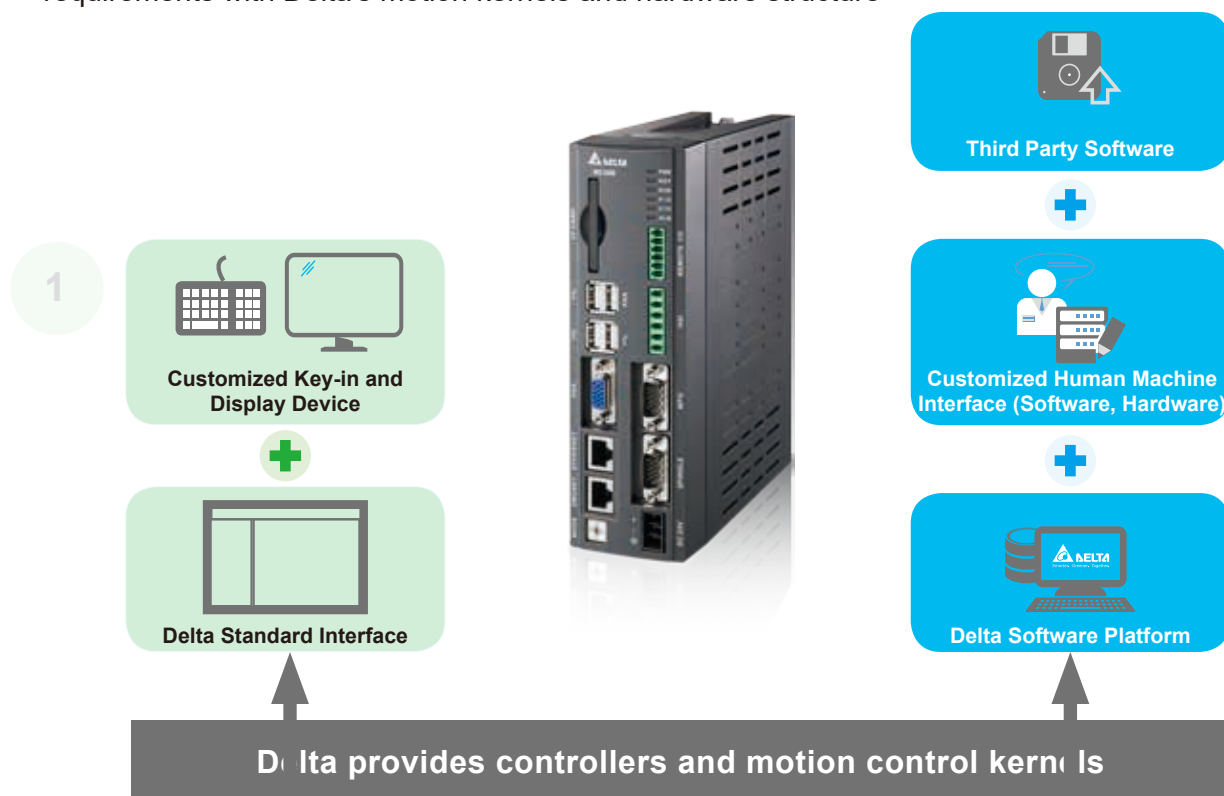
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Features

Open-structured CNC System

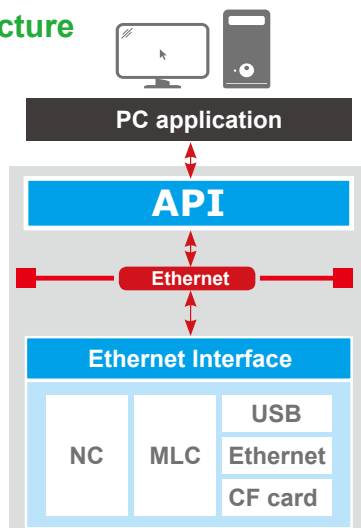
- Offers open structure for hardware and software, which allows customized integration, excellent flexibility and openness for a wide range of machine applications and industries
- Allows customers to choose different product combinations based on product features and market requirements with Delta's motion kernels and hardware structure



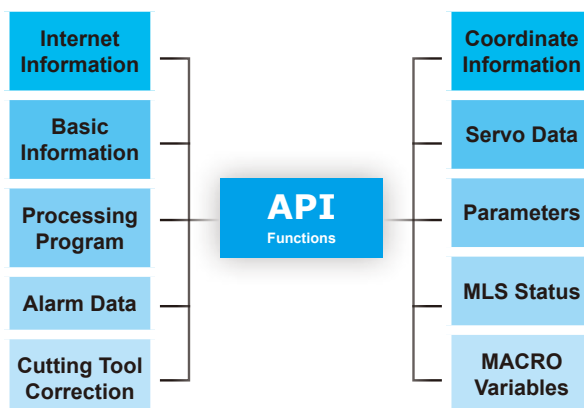
Application Programming Interface (API)

Supports the Application Programming Interface (API) that helps CNC machine makers, who might develop personal application software or combine with other value-added software, to customize the controller and integrate the information of the open CNC controller into their personal platform via Ethernet.

API Structure



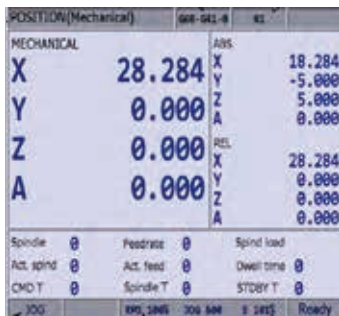
API Functions



Flexible Interface

Built-in interface for operation display and functions allows customers to modify Delta's customized interface or develop self-defined interface to make machining operation more flexible and simpler

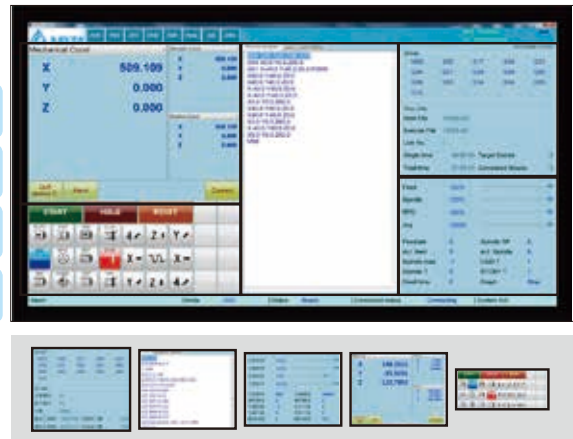
Standard Interface



Customized Interface



- Pushbutton Setup
- Layout Color
- Font Size
- Content Arrangement



Specifications

Item	Specification
Maximum Number of Connected Computers	Permits 5 computers (the maximum) for simultaneous connections
Maximum Number of Socket Connections	Permits maximum of 10 simultaneous connections
DHCP	Available
VGA Resolution	Supports display resolution 800x600 (B series: 1,024 x 768)
USB Support Device	1 USB Disk 1 Mouse (only for software panel), supports touch screen 1 Keypad
Authority Management	Assigns authority for API reading, coding or both to different level of user groups (each connection has a separate authority)

Model Name

NC **30E** □ □

H 5 Axes Simultaneous
□ Standard Series
B B Series

B Series:

- Adds 2 sets of I/O ports and 2nd OP port
- Supports Delta 2nd OP or 3rd party 2nd OP
- Adds 2 sets of DA and Pulse Output for twin spindle application

Model Name	Controlled Axes	Simultaneous Controlled Axes	Linear Interpolation	Circle Interpolation
NC30E	4 Axes	4	4	2
NC30E B	4 Axes	4	4	2
NC30E H	6 Axes	5	5	2
NC30E B H	6 Axes	5	5	2

System Configuration

Description

- OPEN CNC's customized platform structure offers a user-friendly interface
- Provides a smart platform and library for customers to self-define programs and conduct software development
- Reduces additional hardware cost for customers to focus more on software upgrades and better integrated operation performance

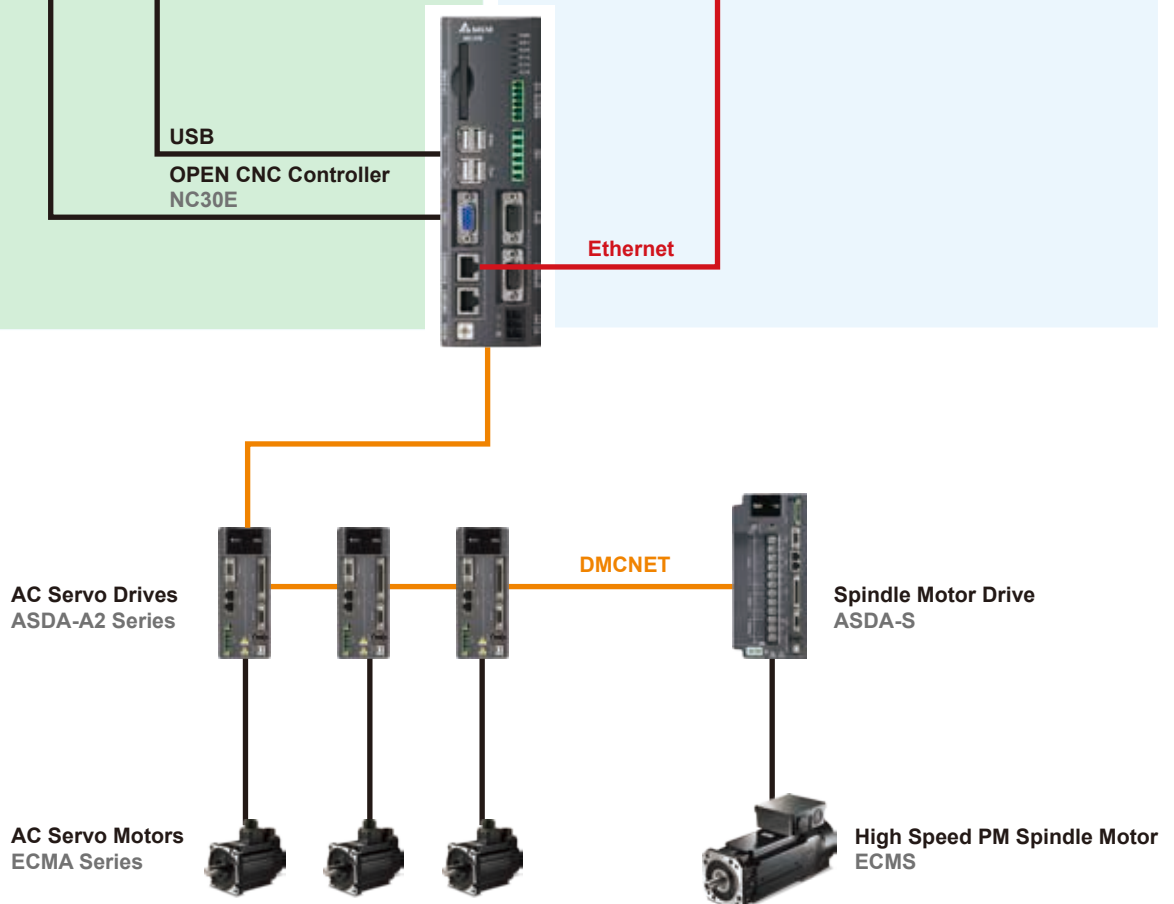
Solution 1: Standard

VGA output for external display with Delta's standard interface

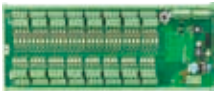
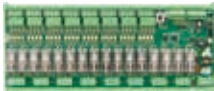


Solution 2: Function-Oriented

Customizable solution with different panel sizes for various applications



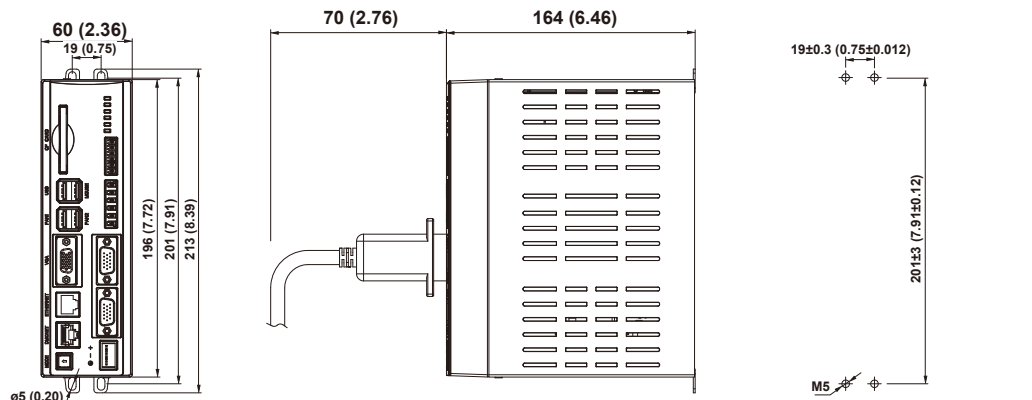
Optional Accessories

High Speed Serial I/O			Other
Serial Cable	Photocoupler Type	Relay Type	HOP
 - Provides 1.5 / 3.0 / 5.0 / 10 m - Part No. 1.5m NC-CAB-EIO015 3.0m NC-CAB-EIO030 5.0m NC-CAB-EIO050 10m NC-CAB-EIO100X	 - Supports 32 Inputs/32 Outputs - Part No. NC-EIO-T3232 - Size: 286 x 121.78 x 51.01 mm (Length x Width x Total Height)	 - Supports 32 Inputs/16 Outputs - Part No. NC-EIO-R3216 - Size: 286 x 121.7 x 54.73 mm (Length x Width x Total Height)	 - Part No. - NC-HOP-07E-05E (5 M cable, Eng. Language) - NC-HOP-07E-10E (10 M cable, Eng. Language) - Size: 257.4 x 170.3 x 71.8 mm (Length x Width x Total Height)

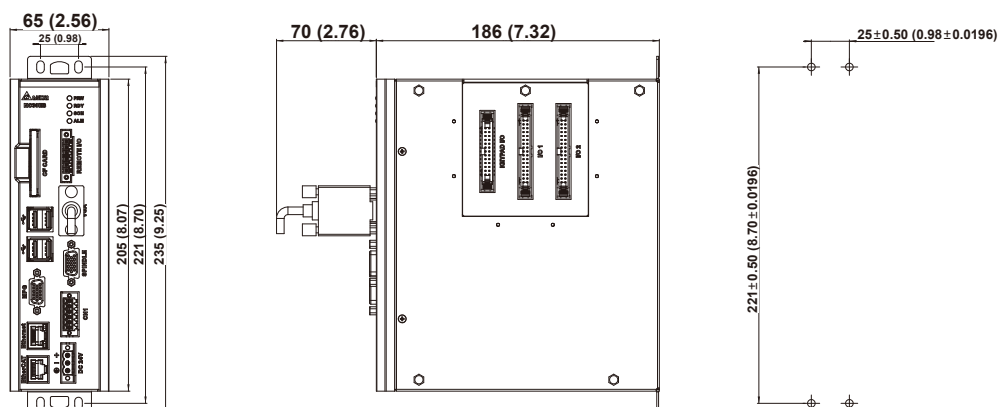
Cables and Terminal Blocks			Other
6 axis Pulse-type Servo Motor Control Card	AD Terminal Block	DA Terminal Block	Manual Pulse Generator (MPG)
 - Provides 6 Sets of Pulse Signal Output - Part No.: NC-EIO-PMC06 - Size: 217 x 121.78 x 41.9 mm (Length x Width x Total Height)	 - Provides Analog Input Type (4 channel ADC) - Part No.: NC-EIO-ADC04 - Size: 146.25 x 86.78 x 51.05 mm (Length x Width x Total Height)	 - Provides Analog Input Type (4 channel DAC) - Part No.: NC-EIO-DAC04 - Size: 146.25 x 86.78 x 51.05 mm (Length x Width x Total Height)	 - Provides Manual Pulse Generator (MPG) - Part No.: NC-MPG-105HS-FL - Size: 184 x 73 x 71 mm (Length x Width x Total Height)

Panel Cutout (Unit: mm)

NC30E



NC30B





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