

Automation for a Changing World

# **Delta OPEN CNC Controller NC E Series**





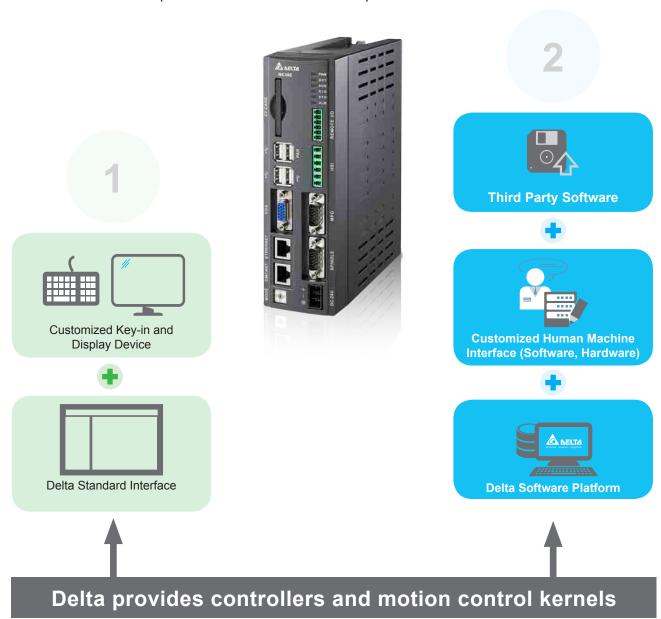
## **Features**

## **Open-structured CNC System**

The new Open CNC Solution provides an open structure for hardware and software and allows user-friendly customization for CNC machine makers. It adopts Delta's new Open CNC Controller NC E Series, which offers customized and easy integration, excellent flexibility and openness for different machine applications and manufacturing needs.

The NC E Series can be applied in a wide range of applications and industries. It helps customers to self-define their functions on CNC machines with programming PC tools and an editing platform that suits their unique requirements.

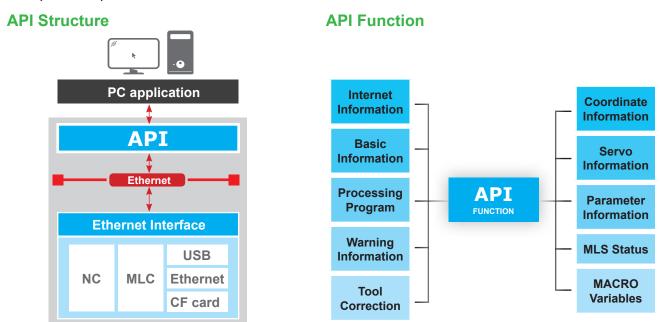
Through Delta's motion kernels and hardware structure, customers can choose different product combinations based on product features and market requirements.



## **Application Programming Interface (API)**

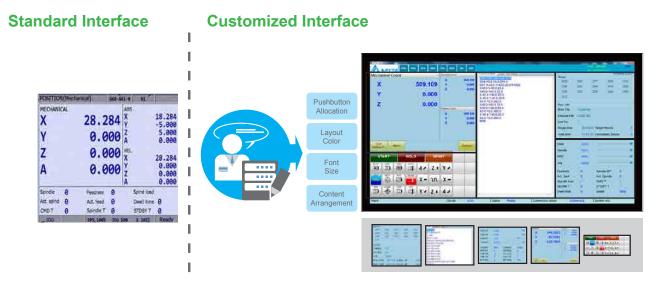
With an Open CNC control, the CNC system is constructed with modularity and reconfigurable software components. Delta's NC E Series supports the Application Programming Interface (API) which is open to CNC machine makers for customization that meets their particular needs without buying a new controller.

The API can assist customers to integrate the information of the open CNC controller, develop personal application software or combine with other added-value software via Ethernet to apply on their personal platform.



#### Flexible Interface

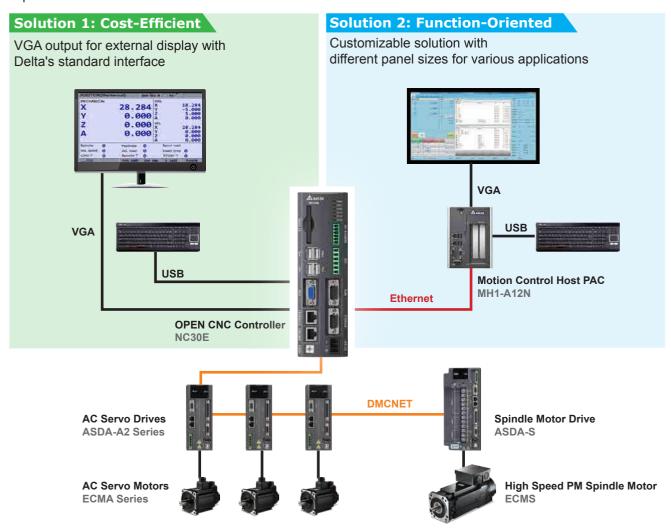
The NC E Series features a standard built-in interface with VGA, keypad and mouse for basic functions and display. Customers can modify Delta's customized interface or develop their own user interfaces to make machining operations more straightforward for applications.



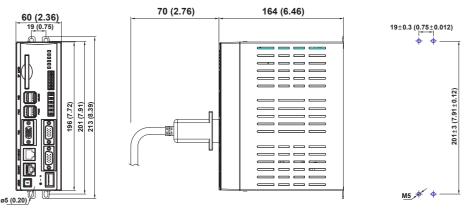
# **System Configuration**

## **Description**

- ▶ OPEN CNC customized platform structure offers a user-friendly interface
- ▶ Provides a smart platform and templates for customers to self-define their programs and conduct software development
- Reduces additional hardware for customers to focus on software upgrades and integration for better operation performance



# Panel Cutout (Unit: mm)



# **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	Accepts	
VGA Resolution	Supports display resolution up to 1920 x 1080 (Recommend 1024 x 768)	
USB Support Device	USB Disk     Mouse (Only for software panel), supports touch screen     Keypad	
Authority Management	Assigns API reading/coding or both authority to different level of user groups. Each connection has a separate authority.	

# **Model Name Explanation**



Model Name	Controlled Axes	Simultaneous Controlled Axes	Linear Interpolation	Circle Interpolation
NC30E	4 Axes	4	4	2
NC30EH	6 Axes	5	5	2

# **Optional Accessories**

#### High Speed Serial I/O **Serial Cable Photocoupler Type Relay Type** Relay Type • Supports 1.5/3.0/5.0/10 M • Supports 32IN/32OUT • Supports 32IN/16OUT Supports 20IN/10OUT • Part No. NC-EIO-T3232 • Part No. NC-EIO-R3216 • Part No. NC-EIO-R2010 1.5M NC-CAB-EIO015 • Size: • Size: • Size: 3.0M NC-CAB-EIO030 286 x 121.78 x 51.01 mm 286 x 121.7 x 54.73 mm 217 x 121.79 x 60.56 mm 5.0 M NC-CAB-EIO050 ( Length x Width x Total Height ) ( Length x Width x Total Height ) ( Length x Width x Total Height ) 10M NC-CAB-EIO100X

Cables and Terminal Blocks			Other
6 axis Pulse-type Servo Motor Control Card	AD Terminal Block	DA Terminal Block	Manual Pulse Generator (MPG)
			<b>9</b>
Provides:	Provides: Analog Input Type	Provides: Analog Input Type	Provides: Manual Pulse Generator

- 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 )
- (4 channel ADC)
- Part No.: NC-EIO-ADC04
- ( Length x Width x Total Height )
- (4 channel DAC)
- Part No.: NC-EIO-DAC04
- Size: 146.25 x 86.78 x 51.05 mm Size: 146.25 x 86.78 x 51.05 mm ( Length x Width x Total Height )
- (MPG)
- Part No.: NC-MPG-105HS-FL
- Size: 184 x 73 x 71 mm ( Length x Width x Total Height )





### **Industrial Automation Headquarters**

Delta Electronics, Inc.

Taoyuan Technology Center 18 Xinglong Road, Taoyuan District, Taoyuan City 33068, Taiwan (R.O.C.) TEL: 886-3-362-6301 / FAX: 886-3-371-6301

#### Asia

Delta Electronics (Jiangsu) Ltd.

Wujiang Plant 3
1688 Jiangxing East Road,
Wujiang Economic Development Zone
Wujiang City, Jiang Su Province, P.R.C. 215200
TEL: 86-512-6340-3008 / FAX: 86-769-6340-7290

Delta Greentech (China) Co., Ltd.

238 Min-Xia Road, Pudong District, ShangHai, P.R.C. 201209

TEL: 86-21-58635678 / FAX: 86-21-58630003

Delta Electronics (Japan), Inc.

Tokyo Office 2-1-14 Minato-ku Shibadaimon, Tokyo 105-0012, Japan

TEL: 81-3-5733-1111 / FAX: 81-3-5733-1211

Delta Electronics (Korea), Inc.

1511, Byucksan Digital Valley 6-cha, Gasan-dong, Geumcheon-gu, Seoul, Korea, 153-704 TEL: 82-2-515-5303 / FAX: 82-2-515-5302

Delta Electronics Int'l (S) Pte Ltd.

4 Kaki Bukit Ave 1, #05-05, Singapore 417939 TEL: 65-6747-5155 / FAX: 65-6744-9228

Delta Electronics (India) Pvt. Ltd.

Plot No 43 Sector 35, HSIIDC Gurgaon, PIN 122001, Haryana, India TEL: 91-124-4874900 / FAX: 91-124-4874945

#### **Americas**

**Delta Products Corporation (USA)** 

Raleigh Office
P.O. Box 12173, 5101 Davis Drive,

Research Triangle Park, NC 27709, U.S.A. TEL: 1-919-767-3800 / FAX: 1-919-767-8080

Delta Greentech (Brasil) S.A.

Sao Paulo Office Rua Itapeva, 26 - 3° andar Edificio Itapeva One-Bela Vista 01332-000-São Paulo-SP-Brazil TEL: 55 11 3568-3855 / FAX: 55 11 3568-3865

#### **Europe**

Deltronics (The Netherlands) B.V.

Eindhoven Office

De Witbogt 20, 5652 AG Eindhoven, The Netherlands TEL: +31 (0)40-8003800 / FAX: +31 (0)40-8003898

<sup>\*</sup>We reserve the right to change the information in this catalogue without prior notice.