

CNC ETX H 30 Data Sheet

The CN ETX H 30 is dedicated to tool machines of small dimensions of type at co-ordinates with rotating tool (in example milling machine) or with rotating piece (in example Lathe) or in general for automatic plants of high performances.

To resolve the problems coming from installation in hostile surroundings, the CNC is equipped with static type memory. The central unit has reduced dimensions and has developed along the vertical versus, allowing a more a more easy housing inside of the electrical cabinet.

Briefly, the CN ETX H 30 is more suitable where:

- High performances are requested.
- Two LAN ports are requested, for example to connect the central unit to the firm network besides to a local network with other CN or PAC to set up a working group, movement and other.
- A maximum number of slot axes are requested (up to 6).

Pictures and Overall Dimensions

Model H (Central unit) CN ETX H 30



UN2012LH30

HEIGHT	391,0
WIDTH	141,0
DEPTH	178,0

The picture shows the central unit with 3 occupied axis slots.

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Specifications

Here below there are listed the options that allow to configure the central unit.

Model H	Options and/or description										
Power Supply	Power supply of 220 Volt (Code OPALI220V1)										
	Power supply of +24Vdc (Code OPALI024V0)										
CPU / RAM	CPU ETX 1,5 GHz + RAM 512 MB (OPCPUETX01)										
	CPU ETX 1,5 GHz + RAM 1,0 GB (OPCPUETX03)										
	CPU Core 2 Duo (in develop)										
Mass memory Operating System	Compact Flash 1 GB or bigger (OPFLASH1000) WindowsXPembedded (OPOSWINXP)										
Connections	Central unit offers the following connections: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">n.2 RS-232,</td> <td style="width: 50%;">n.1 Parallel LPT,</td> </tr> <tr> <td>n.4 USB V2.0,</td> <td>n.1 LVDS,</td> </tr> <tr> <td>n.2 LAN Ethernet 10-100 Mb/sec,</td> <td>n.1 VGA,</td> </tr> <tr> <td>n.1 PS/2 Keyboard,</td> <td>n.1 Services (0...5 volt),</td> </tr> <tr> <td>n.1 PS/2 Mouse,</td> <td>n.1 CANopen port.</td> </tr> </table>	n.2 RS-232,	n.1 Parallel LPT,	n.4 USB V2.0,	n.1 LVDS,	n.2 LAN Ethernet 10-100 Mb/sec,	n.1 VGA,	n.1 PS/2 Keyboard,	n.1 Services (0...5 volt),	n.1 PS/2 Mouse,	n.1 CANopen port.
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	OPUSBEXT03 = USB port equipped with connector to extend the USB signal up to 40 mt. (it is necessary to use a proper cable: see accessories). The option occupies a slot axis and disables number 2 USB ports.										
Software	The base ensemble includes CNC software for Milling, Drilling and Boring machines and Machining centres. There are available applicative software for Lathes, Thermal cutting, and Stone working.										

The following table lists the connections and performances of CN model ETX M 30. (About of the software performances, it is suggested to see the corresponding section).

CN ETX H 30	Description / notes
Performances	
Controlled Axes	3/4/6/12 interpolated axes (in function of the size) <ul style="list-style-type: none"> • Linear, circular and helicoid interpolation • Controlling of analog and digital interfaces Or up to 36 positioning axes.
Spindle	1 spindle with analogical controlling of speed reference It can be controlled also in space (spindle orientation / rigid tapping) through an input of encoder counter.
Ports for electronic wheel	3 wheels through an input of encoder counter
I/O PLC	On CANopen bus <ul style="list-style-type: none"> • Digital Opto-isolated inputs (V.max = 27 Vdc) • Digital Outputs • Analogical Inputs/Outputs
CAN nodes	Max number of CAN nodes = 63.

Fast counter inputs for encoder	3 Fmax = 1 Mhz	
Minimum time for axes controlling	0,6 ms	
Minimum time for PLC controlling	10 ms	
Options		
Size	TINY SMALL MADIUM LARGE	For explanation see "General Catalogue"
Axes Controlling	ANALOGICAL, PULSE/DIRECTION, DIGITALE SLM, DIGITALE MECHATROLINK, DIGITALE CANopen	For explanation see "General Catalogue"
PLC controlling	Remote CANopen interface For explanation see "General Catalogue"	
Board	All kind of available Board, Keyboard and mouse For explanation see "Catalogue Peripherals and accessories"	
Accessories on USB interface	Modem, Floppy, USB HUB, Power unit. ecc.. . For explanation see "Catalogue Peripherals and accessories"	

General Technical Characteristics

The degree of protection IP20.

The working temperature is 0 +45 centigrade degree.

The storing temperature is -20 +70 centigrade degree

The maximum degree of damp is 90% with no condensation.

Every CNC case are prepared for the fixing to the panel (The boring template in available on documentation).