

Features

The CNC 2001M is a Machine Controller with small dimension and great features, innovative and reliable. It controls up 12 axes and can be inserted in a network in order to control up to 36 axes. It offers the most common standard communication interfaces (PS/2, parallel, serial RS-232, USB, Ethernet 10/100 Mb/s), LVDS or VGA for the display connection, and CANopen interface for I/O devices. It includes a powerful and easily programmable PLC with libraries and tools to accomplish most all the needs. The Remote Machine Interface software allows remote PCs to manage the CNC and program and debug the PLC.



CNC 2001M

Specifications

Item	Specifications
Control method	Motion control by MECHATROLINK- I or - II (Position, Velocity)
Number of control axis	12 axes (up to 36 axes in CNC network)
Control Servo Drivers	MECHATROLINK- I ; SGD-□□□N series, SGDB-□□AN series, SGDS series, SGDM series SGDH series + JUSP-NS115/NS110 /NS001, MECHATROLINK- II ; SGDS series, SGDH series+JUSP-NS115
Unit (minimum control unit)	1, 0.1, 0.01, 0.001, 0.0001 (unit: mm, inch, deg, pulse)
Maximum command value	−2147483648 to 2147483647pulse (32bit with sign) unlimited feed also possible
Motion program functions	Positioning through Interpolation or in independent axis by axis way. Linear, Circular, Helical and Tabular Interpolation. Zero point search cycle: freely configurable and with height memorizing at switching off. Control of axes with clamps and brakes, up to three electronic hand-wheels and compensation. Electric gear. Following synchronization. Electric CAM.
Rapid traverse feed rate	1 to 2147483647 [command unit/min]
Interpolation traverse feed rate	1 to 2147483647 [command unit/min]
Override	0 to 255 % (command unit 1%, possible to set by axis or task)
Accel/Decel control	Accel, Decel tim: Maximum 60.000ms (trapezoid or S curve), S curve

MECHATROLINK specifications

		M- I	M- II	
		17-byte	17-byte	32-byte
Command	Servo	×	×	×
	Stepping Motor Drivers	-	-	-
	Intelligent I/O	-	-	-
	Simple I/O	-	-	-
	Inverter	-	-	-
Transmission cycle		2ms	1ms, 1.5ms, 2ms	

Contact Information

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