



62 Axes Machine Controller

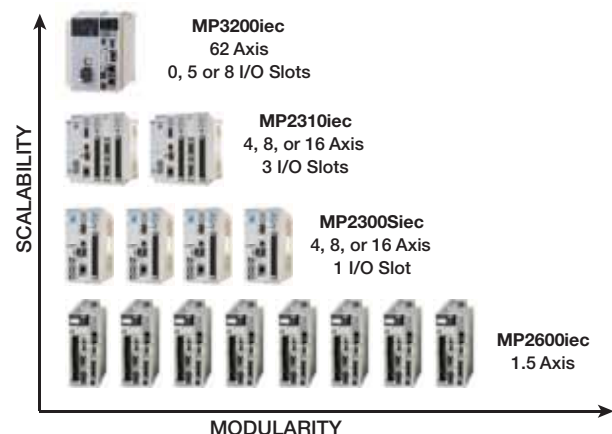
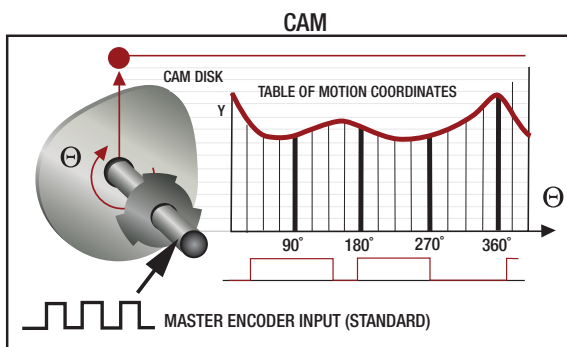
IEC Programming Environment and Controller-Centric Commissioning using MECHATROLINK-III motion network

MP3200iec High Performance Automation Controller

- ▶ One software platform, MotionWorks IEC, allows efficient programming and handling of applications within a standard IEC 61131-3 environment
- ▶ MP3200iec offers higher axis counts and faster update rates: 62 axes of synchronized control
- ▶ PLCopen Function Blocks in MotionWorks IEC simplify programming
- ▶ Advanced camming and gearing functions
- ▶ Controller-Centric Commissioning
The MECHATROLINK-III open Ethernet based motion network (100 Mbps) enables machine configuration from a single location with one software tool.
Using self-tuning abilities of a servo system commissioning time is greatly reduced.
- ▶ Diagnostic Web server reduces field maintenance time



- ▶ Optional OPC server provides HMI connectivity or Data Acquisition
- ▶ Communication Protocols
Open standards EtherNet/IP and Modbus TCP to connect to many HMI and PLC in the market
- ▶ Programmable Amplifier Outputs
The controller can operate local amplifier outputs. This reduces panel cost and space requirements when just a couple of outputs are necessary.
- ▶ Reusable Code
Libraries enable importation of previously developed logic.
- ▶ A Multitude of Options
Choose from ten option cards offered for the expansion slot to accommodate most machine requirements.





Standard Specifications

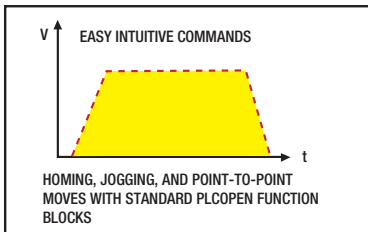
Features	Description
Program Capacities	<ul style="list-style-type: none"> ▶ Standard programming languages IEC61131-3 ▶ PLCopen function blocks ▶ Eight open slots for the optional modules using the attachable rack ▶ Webserver ▶ OPC-server
Number of controlled axes	62 axes
Control Functions	Position control, gearing, speed control, torque control, CAM
Accel/decel processing	Linear, Exponential, Moving Average
Program Languages	<ul style="list-style-type: none"> ▶ IEC61131-3 languages ▶ MotionWorks® IEC Pro: Ladder Diagram, Function Block Diagram, Instruction List, Structured Text, Sequential Function Chart ▶ MotionWorks® IEC Express: Ladder Diagram, Function Block Diagram, Instruction List, Structured Text, Sequential Function Chart
Communication	<ul style="list-style-type: none"> ▶ MECHATROLINK-III ▶ Ethernet (100 Mbps)
International standard	UL, c-UL, CE (for further information, contact YASKAWA Europe GmbH)



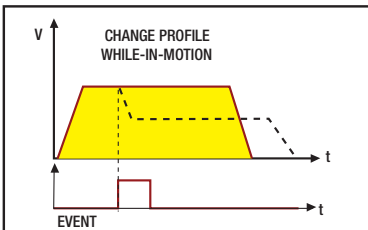
Modbus TCP



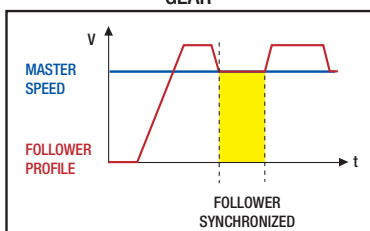
POINT-TO-POINT



BLENDED MOVES



GEAR



	Item	Specifications
Control Functions	Ambient Operating Temperature	0 to 55°C
	Ambient Storage Temperature	-25 to 85°C
	Ambient Operating Humidity	30 to 95% (with no condensation)
	Ambient Storage Humidity	5 to 95% (with no condensation)
	Pollution Level	Pollution Level 2 or less (Conform to JIS B 3502)
	Corrosive Gas	There must be no combustible or corrosive gas
	Operating Altitude	2,000 m above sea level or lower
Protection Function	Vibration Resistance	Conforming to JIS B 3502: <ul style="list-style-type: none"> ▶ Continuous vibration: <ul style="list-style-type: none"> 5 to 9 Hz with zero-to-peak amplitude of 1.75 mm 9 to 150 Hz with constant acceleration of 4.9 m/s² ▶ Periodic oscillation: <ul style="list-style-type: none"> 5 to 9 Hz with zero-to-peak amplitude of 3.5 mm 9 to 150 Hz with constant acceleration of 9.8 m/s² X, Y, and Z directions for 10 iterations
	Shock Resistance	Conforming to JIS B 3502: Peak acceleration of 147 m/s ² (15 G) three times for 11 ms each in the X, Y, and Z directions
Electrical Operating Conditions	Noise Resistance	Conforming to EN 61000-6-2, EN 55011 (Group 1, Class A) <ul style="list-style-type: none"> ▶ Power supply noise (FT noise): 1 kV min., for one minute ▶ Radiation noise (FT noise): 2 kV min., for one minute ▶ Static electricity noise (contact electrical discharge method): 6 kV min., for 10 minutes and 10 times.
	Ground	Ground to 100 Ω max.
Installation Requirements	Cooling Method	Natural convection cooling