



PACKING OPERATIONS

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MOTOSIM EG-VRC (OPTION)

TOP REASONS TO BUY

- Highest speed in its class
- Exceptional repeatibility for the most demanding applications
- Powerful DX100 controller provides fast Ethernet communication and can deliver significant cost savings by eliminating costly PLCs or HMIs for cell control
- Labor savings justifies capital investment
- Multiple robot control (up to eight robots/72 axes) simplifies programming

MH6 MH6S MH6-10

ASSEMBLY • DISPENSING • MACHINE TENDING MATERIAL HANDLING • PACKAGING • WELDING

Payload: 6 kg (MH6 and MH6S) 10 kg (MH6-10)

Mounting Option: Shelf (MH6R)

Compact, Powerful and Economical

Y YASKANA MOTOMAN

- High-speed six-axis MH6 robots require minimal installation space.
- MH6 and MH6-10: 1,422 mm (56") horizontal reach, 2,486 mm (97.9") vertical reach. MH6S (shorter-arm version): 997 mm (39.3") horizontal reach, 1,597 mm (62.9") vertical reach. All models have ±0.08 mm (0.003") repeatability.
- Widest work envelope in its class with small interference radius; allows robot to be placed close to workpieces/equipment.
- Powerful design with high moment of inertia ratings provides higher carrying capacity.
- The MH6 and MH6S feature a 6 kg (13.2 lb) payload capacity. Higher speeds on all axes provide maximum throughput.
- For similar applications requiring heavier payload requirements the MH6-10 offers a 10 kg capacity.
- Superior performance in assembly, dispensing, material handling, machine tending, packaging and welding.
- Yields extraordinary production results while requiring minimal capital investment.

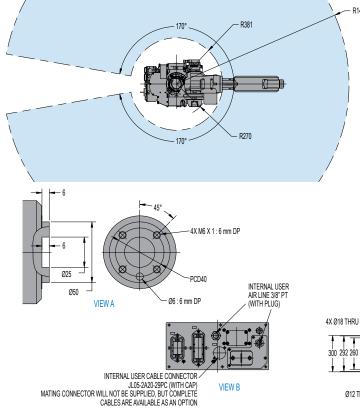
- All models can be floor-, wall-, or ceilingmounted. Brakes on all axes.
- Compact design and built-in collision avoidance features with multiple robot control allow up to eight robots to be used together to maximize productivity while reducing overall floorspace requirements.

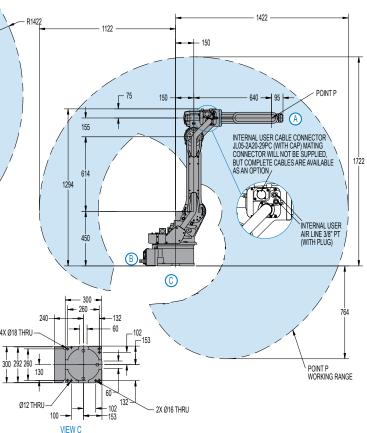
DX100 Controller

- Patented multiple robot control supports up to 8 robots/72 axes.
- Windows[®] CE programming pendant with color touch screen and USB interface.
- Faster processing speeds for smoother interpolation. Quicker I/O response. Accelerated Ethernet communication.
- Extensive I/O suite includes integral PLC and touch screen HMI, 2,048 I/O and graphical ladder editor.
- Supports all major fieldbus networks, including EtherNet/IP, DeviceNet, Profibus-DP and many others.
- Compliant to ANSI/RIA R15.06-1999 and other relevant ISO and CSA safety standards. Optional Category 3 functional safety unit.

MH6/MH6S/MH6-10 ROBOTS

MH6/MH6-10 robot shown. All dimensions are metric (mm) and for reference only. Please request detail drawings for all design/engineering requirements.





ROBOT SPECIFICATIONS

		MH6	MH6S	MH6-10
Structure		Articulated	Articulated	Articulated
Controlled Axes		6	6	6
Payload		6 kg (13.2 lbs)	6 kg (13.2 lbs)	10 kg (22.1 lbs)
Vertical Reach		2,486 mm (97.9")	1,597 mm (62.9")	2,486 mm (97.9")
Horizontal Reach		1,422 mm (56")	997 mm (39.3")	1,422 mm (56")
Repeatability		±0.08 mm (±0.003")	±0.08 mm (±0.003")	±0.08 mm (±0.003")
Maximum Motion Range	S-Axis (Turning) L-Axis (Lower Arm) U-Axis (Upper Arm) R-Axis (Upper Arm Twist) B-Axis (Pitch/Yaw) T-Axis (Twist)	±170° +155°/-90° +250°/-175° ±180° +225°/-45° ±360°	±170° +133°/-80° +165°/-130° ±180° +225°/-45° ±360°	±170° +155°/-90° +250°/-175° ±180° +225°/-45° ±360°
Maximum Speed	S-Axis L-Axis U-Axis R-Axis B-Axis T-Axis	220°/s 200°/s 220°/s 410°/s 410°/s 610°/s	220°/s 220°/s 220°/s 410°/s 410°/s 610°/s	140°/s 130°/s 135°/s 270°/s 270°/s 400°/s
Approximate Mass		130 kg (286.7 lbs)	120 kg (264.6 lbs)	130 kg (286.7 lbs)
Power Consumption		1.5 kVA	1.5 kVA	1.5 kVA
Allowable Moment	R-Axis B-Axis T-Axis	11.8 N • m 9.8 N • m 5.9 N • m	11.8 N • m 9.8 N • m 5.9 N • m	12.2 N • m 14.2 N • m 7.3 N • m
Allowable Moment of Inertia	R-Axis B-Axis T-Axis	0.27 kg • m ² 0.27 kg • m ² 0.06 kg • m ²	0.27 kg • m² 0.27 kg • m² 0.06 kg • m²	0.24 kg • m ² 0.21 kg • m ² 0.06 kg • m ²
Internal User Electrical Cable		16 conductors + ground	16 conductors + ground	16 conductors + ground
Internal User Air Hose		(2) 3/8" PT connections	(1)3/8" PT connection	(2) 3/8" PT connections

DX100 CONTROLLER SPECIFICATIONS**

Dimensions (mm)	800 (w) x 1,000 (h) x 650 (d) (31.5" x 39.4" x 25.6")			
Approximate Mass	250 kg max. (551.3 lbs)			
Cooling System	Indirect cooling			
Ambient Temperature	During operation: 0° to 45° C (32° to 113° F) During transit and storage: -10° to 60° C (14° to 140° F)			
Relative Humidity	90% max. non-condensing			
Primary Power Requirements	3-phase, 240/480/575 VAC at 50/60 Hz			
Digital I/O NPN-Standard PNP-Optional	Standard I/O: 40 inputs/40 outputs consisting of 16 system inputs/ 16 system outputs, 24 user inputs/24 user outputs 32 Transistor Outputs; 8 Relay Outputs Max. I/O (optional): 2,048 inputs and 2,048 outputs			
Position Feedback	By absolute encoder			
Program Memory	JOB: 200,000 steps, 10,000 instructions CIO Ladder Standard: 15,000 steps Expanded: 20,000 steps			
Pendant Dim. (mm)	169 (w) x 314.5 (h) x 50 (d) (6.7" x 12.4" x 2")			
Pendant Weight	.998 kg (2.2 lbs)			
Interface	One Compact Flash slot; One USB port (1.1)			
Pendant Playback Buttons	Teach/Play/Remote Keyswitch selector Servo On, Start, Hold, and Emergency Stop Buttons			
Programming Language	INFORM III, menu-driven programming			
Maintenance Functions	Displays troubleshooting for alarms, predicts reducer wear			
Number of Robots/Axes	Up to 8 robots, 72 axes			
Multi Tasking	Up to 16 concurrent jobs, 4 system jobs			
Fieldbus	DeviceNet Master/Slave, AB RIO, Profibus, Interbus-S, M-Net, CC Link, EtherNet IP/Slave			
Ethernet	10 Base T/100 Base TX			
Safety	Dual-channel Emergency Stop Pushbuttons, 3-position Enable Switch, Manual Brake Release Meets ANSI/RIA R15.06-1999, ANSI/RIA/ISO 10218-1-2007 and CSA Z434-03			
**See DX100 Controller data sheet (DS	-399) for complete specifications			

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