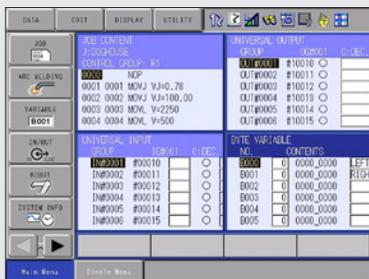
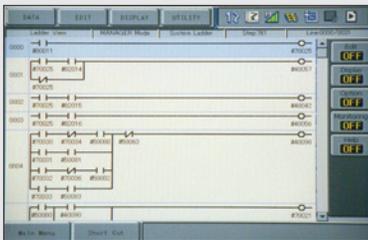


PROCESS-SPECIFIC DESIGN



MULTIPLE WINDOW DISPLAY



LADDER EDITOR

TOP REASONS TO BUY

- Application-specific Expert Press Handling robots provide maximum performance and durability
- 34 conductor internal I/O cable provides maximum conductors in a high durability design
- Patented multiple robot control (up to 8 robots/72 axes) simplifies programming
- Energy saving design, reduces power consumption up to 25%
- Small lightweight programming pendant
- MotoSim® EG simulation software (optional)



PRESS TENDING

Payload: 130 kg

Mounting option: Shelf (EPH130RLD)

The high-speed EPH130D and EPH130RLD “Expert Press Handling” robots are specifically designed for the rigors of press handling. Both feature a high vibration rating that is ideal for the press room. The EPH130D is used for floor-mounted applications. When a shelf-mounted robot is needed, the EPH130RLD allows improved clearance for die changes.

Fast, Flexible and Powerful

- Floor-mounted EPH130D model: 2,651 mm horizontal reach; 3,372 mm vertical; ±0.2 mm repeatability.
- Shelf-mounted EPH130RLD model: 3,474 mm horizontal reach; 4,151 mm vertical; ±0.3 mm repeatability allows improved clearance for die changes.
- These robots feature higher-performance drive systems on the S-, L- and U-axes (Axes 1, 2 and 3) for high duty cycle applications in the press room.
- The large work envelope allows the robot to be used to tend presses with spacing from 4-7 m.
- These robots can be used in a dual-robot configuration with other DX100-controlled robots to provide maximum flexibility for a variety of processes.

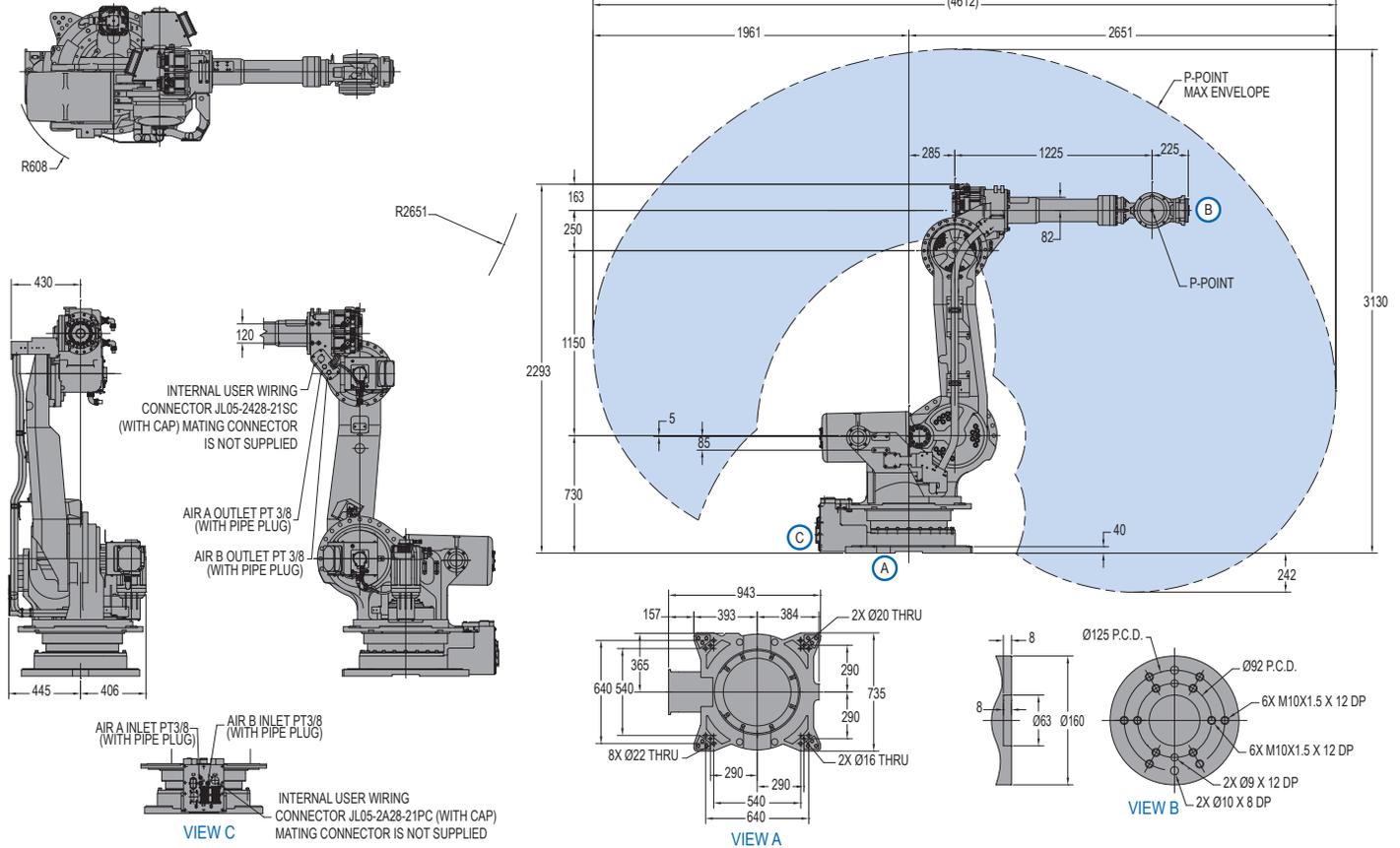
DX100 Controller

- Patented multiple robot control supports up to 8 robots/72 axes.

- 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.
- Advanced Robot Motion (ARM) control provides high performance. Best-in-class path planning dramatically reduces teaching time.
- Small, lightweight Windows® CE programming pendant features color touch screen with multiple window display capability. Unique cross-shaped navigation cursor reduces teaching time. All operator controls are located on pendant. Program file names can be up to 32 characters long.

EPH130D ROBOT

EPH130D robot shown.
All dimensions are metric (mm) and for reference only. Please request detail drawings for all design/engineering requirements.



ROBOT SPECIFICATIONS

		EPH130D Floor-Mounted	EPH130RLD Shelf-Mounted
Structure		Vertical jointed-arm type	Vertical jointed-arm type
Controlled Axes		6	6
Payload		130 kg (286.7 lbs.)	130 kg (286.7 lbs.)
Vertical Reach		3,372 mm (132.8")	4,151 mm (163.4")
Horizontal Reach		2,651 mm (104.4")	3,474 mm (136.8")
Repeatability		±0.2 mm (0.008")	±0.3 mm (0.01")
Maximum Motion Range	S-Axis (Turning/Sweep)	±180°	±180°
	L-Axis (Lower Arm)	+76°/-60°	+70°/-130°
	U-Axis (Upper Arm)	+230°/-137.5°	+95°/-70°
	R-Axis (Wrist Roll)	±360°	±360°
	B-Axis (Wrist Pitch/Yaw)	±130°	±130°
	T-Axis (Wrist Twist)	±360°	±360°
Maximum Speed	S-Axis	130°/s	110°/s
	L-Axis	130°/s	110°/s
	U-Axis	130°/s	110°/s
	R-Axis	215°/s	215°/s
	B-Axis	180°/s	180°/s
	T-Axis	300°/s	300°/s
Approximate Mass		1,495 kg (3,296.5 lbs.)	1,445 kg (3,186.2 lbs.)
Brakes		All axes	All axes
Power Consumption		7.5 kVA	7.5 kVA
Allowable Moment	R-Axis	735 N • m	735 N • m
	B-Axis	735 N • m	735 N • m
	T-Axis	421 N • m	421 N • m
Allowable Moment of Inertia	R-Axis	45 kg • m ²	45 kg • m ²
	B-Axis	45 kg • m ²	45 kg • m ²
	T-Axis*	15 kg • m ²	15 kg • m ²
Internal User Electrical Cable		34 conductors + ground	34 conductors + ground
Internal User Air Hose		2-PT 3/8 connector	2-PT 3/8 connector
Vibration Rating		9.8 m/s ² (1.0 G)	9.8 m/s ² (1.0 G)

* Inertia increases to 52 kg • m² with no T-Axis moment.

DX100 CONTROLLER SPECIFICATIONS**

Dimensions (mm)	1,200 (w) x 1,000 (h) x 650 (d) 47.2" 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/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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YASKAWA
MOTOMAN ROBOTICS

MOTOMAN ROBOTICS
100 AUTOMATION WAY, MIAMISBURG, OHIO 45342
TEL: 937.847.6200 ■ FAX: 937.847.6277

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