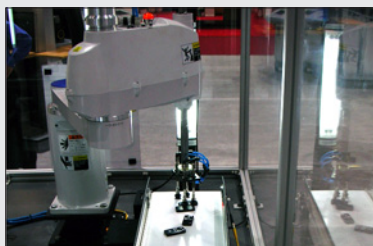
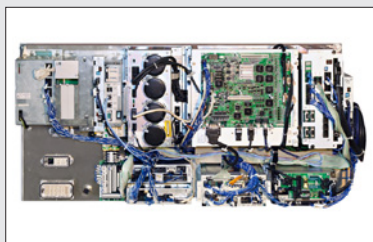




DXM100 CONTROLLER



PACKAGING

PANEL-MOUNT  
CONTROLLER (OPTIONAL)

## TOP REASONS TO BUY

- Uses the same controller as larger Motoman robots
- Easy vision integration with MotoSight 2D, a Cognex In-Sight based vision system
- Yields extraordinary production results, while requiring minimal capital investment
- High work envelope to mounting surface ratio
- Flexible asset; easily re-deployable as production needs change



# MYS650L

MYS-series 4-axis SCARA robots are ideal for high-speed handling and assembly systems. Several models are available with various reach and payload specifications.

## High-Speed SCARA Robot

- Offers superior performance in applications such as assembly, dispensing, part kitting, small part handling, case packing, lab automation, packaging, solar and semiconductor processing.
- Ideal for multi-process systems requiring pick-and-place capability.
- Easily integrates with existing robot applications to expand current automated processes.
- Rounds out the Motoman product line of 4-15 axis robots with payloads of 1-800 kg.
- Uses same controller as other Motoman robots. Enclosure size may vary depending on robot size and payload.
- Offers high speed in a compact form that requires minimal mounting space.
- Features a radial reach of 650 mm, long (330 mm) Z-axis stroke and 6 kg maximum payload.
- External axes available, further expanding the capabilities of this flexible asset.

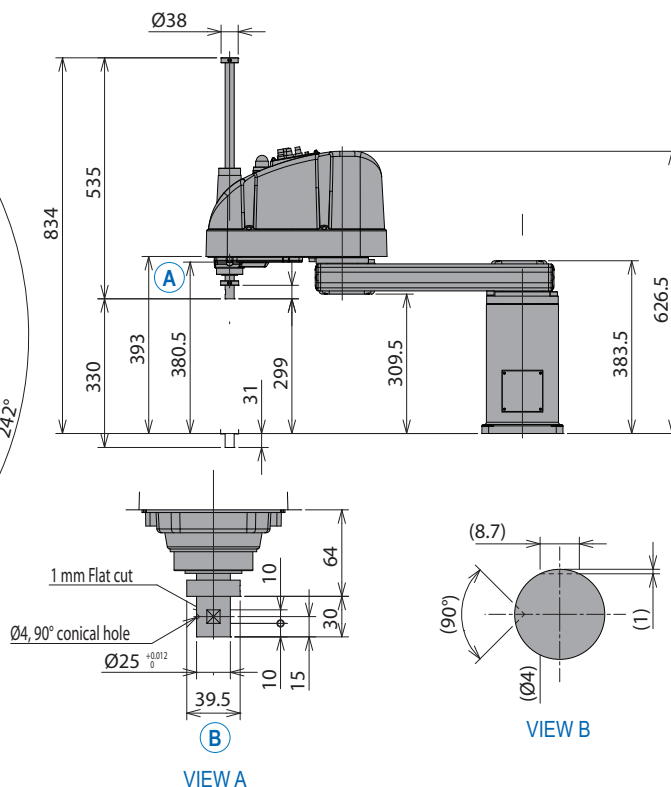
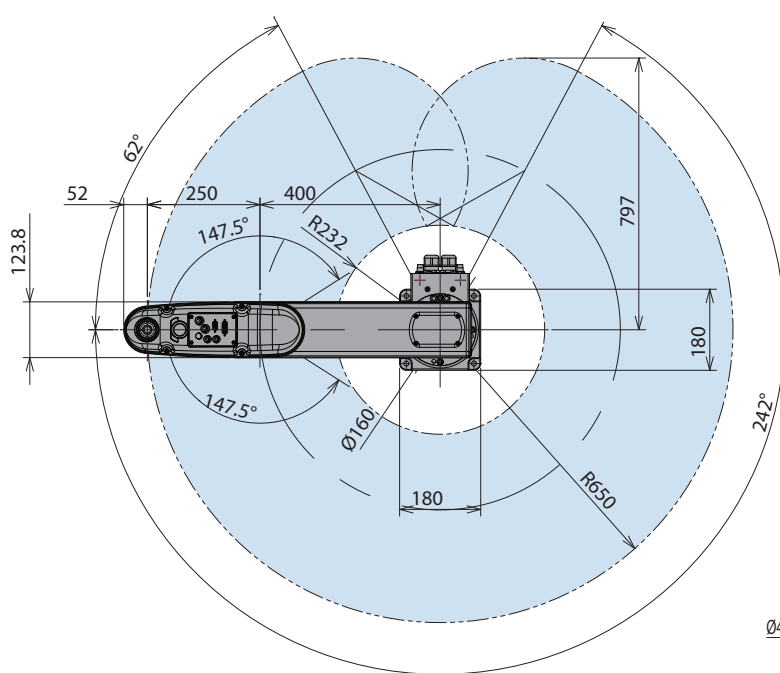
- High repeatability with compliance in X and Y axes make these robots ideal for assembly tasks.

## DXM100 Controller

- Smaller-size DXM100 controller provides layout flexibility.
- 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.
- Built-in collision avoidance with multiple robots.

# MYS650L ROBOT

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



## MYS650L SPECIFICATIONS

<b>Configuration</b>		Horizontally Articulated
<b>Degrees of Freedom</b>		4
<b>Payload</b>		3 kg (6.6 lb.) rated 6 kg (13.2 lb.) max
<b>Repeatability</b>	S-Axis + L-Axis	±0.015 mm (0.0006")
	U-Axis	±0.01 mm (0.0003")
	R-Axis	±0.005°
<b>Range of Motion</b>	S-Axis + L-Axis	650 mm (25.6")
	S-Axis (1st horizontal arm)	+242°/-62°
	L-Axis (2nd horizontal arm)	±147.5°
	U-Axis (upper/lower)	330 mm (13")
	R-Axis (rotate)	±360°
<b>Maximum Speed</b>	S-Axis	420 °/s
	L-Axis	720 °/s
	U-Axis	2,280 mm/s
	R-Axis	2,400 °/s
<b>Allowable Moment of Inertia</b>	R-Axis	0.01 kg · m <sup>2</sup> rated 0.12 kg · m <sup>2</sup> max
<b>Approx. Mass</b>		28 kg (61.7 lb.)
<b>Power Rating</b>		1.25 kVA

NOTE: Maximum speed and moment of inertia may vary depending on load.

## DXM100 CONTROLLER SPECIFICATIONS\* (SCARA ROBOTS)

<b>Dimensions (mm)</b>	800 (w) x 600 (h) x 650 (d) (31.5" x 23.6" x 25.6")
<b>Approximate Mass</b>	250 kg max. (551.3 lbs)
<b>Cooling System</b>	Indirect cooling
<b>Ambient Temperature</b>	During operation: 0° to 40° C (32° to 104° F) During transit and storage: -10° to 60° C (14° to 140° F)
<b>Relative Humidity</b>	80% max. non-condensing
<b>Primary Power Requirements</b>	3-phase, 240/480/575 VAC at 50/60 Hz
<b>Digital I/O</b>	Standard I/O: 40 inputs/40 outputs consisting of 16 system inputs/ 16 system outputs, 24 user inputs/24 user outputs NPN-Standard PNP-Optional 32 Transistor Outputs; 8 Relay Outputs Max. I/O (optional): 2,048 inputs and 2,048 outputs
<b>Position Feedback</b>	By absolute encoder
<b>Program Memory</b>	JOB: 200,000 steps, 10,000 instructions CIO Ladder Standard: 15,000 steps Expanded: 20,000 steps
<b>Pendant Dim. (mm)</b>	169 (w) x 314.5 (h) x 50 (d) (6.7" x 12.4" x 2")
<b>Pendant Weight</b>	.998 kg (2.2 lbs)
<b>Interface</b>	One Compact Flash slot; One USB port (1.1)
<b>Pendant Playback Buttons</b>	Teach/Play/Remote Keyswitch selector Servo On, Start, Hold, and Emergency Stop Buttons
<b>Programming Language</b>	INFORM III, menu-driven programming,
<b>Maintenance Functions</b>	Displays troubleshooting for alarms
<b>Number of Robots/Axes</b>	Up to 8 robots, 72 axes
<b>Multi Tasking</b>	Up to 16 concurrent jobs, 4 system jobs
<b>Fieldbus</b>	DeviceNet Master/Slave, AB RIO, Profibus, Interbus-S, M-Net, CC Link, EtherNet IP/Slave
<b>Ethernet</b>	10 Base T/100 Base TX
<b>Safety</b>	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

www.motoman.com

YASKAWA AMERICA, INC. ■ MOTOMAN ROBOTICS DIVISION  
100 AUTOMATION WAY, MIAMISBURG, OHIO 45342  
TEL: 937.847.6200 ■ FAX: 937.847.6277

**YASKAWA**  
MOTOMAN ROBOTICS

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