

KEY BENEFITS

Versatile design applicable to multitude of applications.

Contoured arm design to improve access and reduce peripheral interferences.

Hollow-arm design for ease of cable management and enhanced cable life.

SPECIFICATIONS

12 kg payload 1,440 mm horizontal reach 2.511 mm vertical reach ±0.08 mm repeatability

CONTROLLERS





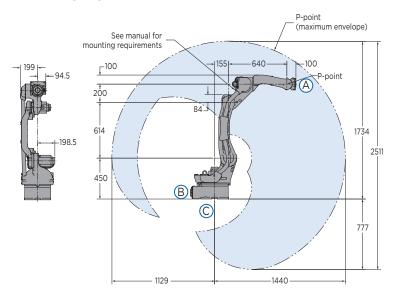


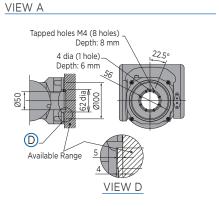
DX200 FS100 MLX200

- Powerful high-speed six axis robot is ideal for multitude of applications.
- 12 kg wrist payload and additional mounting surface on upper arm (up to 10 kg), enables ease of integration of complex gripper tools without compromising performance.
- Enhanced robot work space features 1.440 mm horizontal reach and 2,511 mm vertical reach. The large work envelope extends behind the robot, allowing space for robot tool storage or maintenance.
- Hollow upper arm provides optimal cable protection while enhancing operational reliability. A 50 mm through-hole in the wrist encloses the cable and protects it from wear, interference or snagging.
- New, contoured arm design reduces interference with fixtures, parts or machinery.
- Patented double yoke upper arm design provides additional strength to protect the arm in case of undesired crashes.

- Symmetric wrist profile provides consistent motion and clearances regardless of robot approach.
- Floor-mounted model is standard. Wall- or ceiling-mounted versions are available. Brakes are included on all axes.
- The MH12 has an IP67-rated wrist and an IP54 body standard. An XP (eXtra Protection) package that increases the body protection rating to IP65 is available.
- An anti-corrosive paint option is available for environments where harsh acidic or alkaline cleaners are used, such as food processing facilities.
- Ideally suited for use in high-density work cells with multiple robots working in close proximity.

MH12 ROBOT





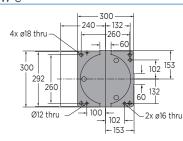
VIEW B

Internal user air line 3/8" pt (with plug)



Internal user cable connector JL05-2A20-29PC (with cap) Mating connector will not be supplied, but complete cables are available as an option

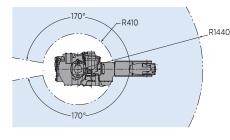
VIEW C



Internal user air line
3/8" pt (with plug)

Internal user
cable connector
JL05-2A20-29SC
(with cap)
Mating connector
will not be supplied,

but complete cables are available as an option



All dimensions are metric (mm) and for reference only. Request detailed drawings for all design/engineering requirements.

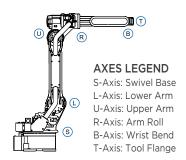
\sim \sim		~ A	 \sim 1	10
- 7 P	ECI			V .
•		 •	 · ·	•••

STECHTICATIONS									
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m²]	Controlled axes Maximum payload [kg] Repeatability [mm] Horizontal reach [mm]	6 12 ±0.08 1,440			
S	±170	220	-	-	Vertical reach [mm]	2,511			
					Weight [kg]	130			
L	+155/-90	200	-	-	Internal user I/O cable	17 conductors (+ ground)			
					Internal user air line	(1) 3/8" connection			
U	+240/-175	220	-	-	Power requirements	7			
					DX200	3-phase; 240/480/575 VAC at 50/60 Hz 1- or 3-phase; 200/230 VAC at 50/60 Hz			
R	±180	410	22	0.65	FS100 MLX200	3-phase; 200/230 VAC at 50/60 Hz			
					Power rating [kVA]	3 phase, 200/230 vac at 30/00 Hz			
В	±135	410	22	0.65	DX200	1.5			
					FS100	1.5			
Т	±360	610	9.8	0.17	MLX200	2.6			

Specifications for MH12 with XP package may be different.

OPTIONS

Extended length manipulator cables
Robot risers and base plates
Wide variety of fieldbus cards
MotoSight™ 2D and 3D vision systems
Robot base and upper arm I/O cables
XP package and anti-corrosive paint



Yaskawa America, Inc. Motoman Robotics Division

100 Automation Way Miamisburg, OH 45342 Tel: 937.847.6200 Fax: 937.847.6277

motoman.com

