



MH12

ASSEMBLY | DISPENSING | MACHINE TENDING
MATERIAL HANDLING | PACKAGING

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



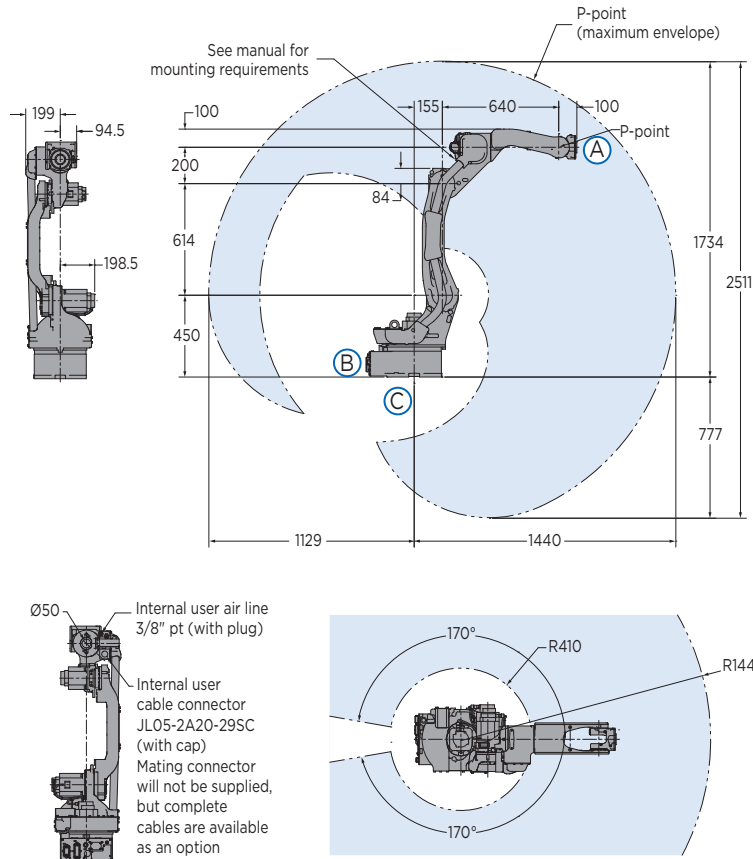
MLX200



MLX300*

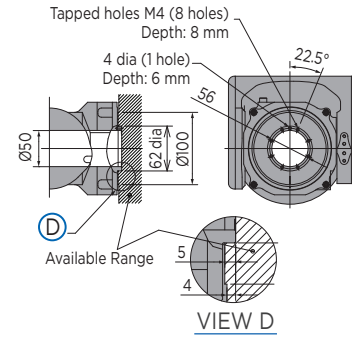
- Powerful high-speed six axis robot is ideal for multitude of applications.
- 12 kg wrist payload and additional mounting surface on upper arm (up to 10 kg), enables ease of integration of complex gripper tools without compromising performance.
- Enhanced robot work space features 1,440 mm horizontal 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

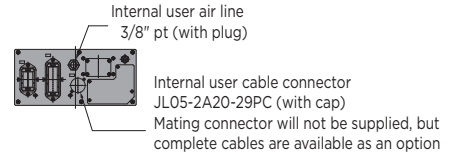


All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

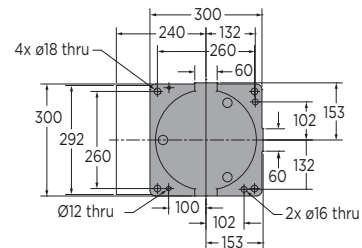
VIEW A



VIEW B



VIEW C



SPECIFICATIONS

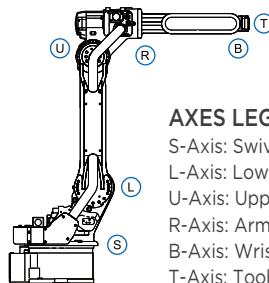
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m ²]	Controlled axes	6
S	±170	220	-	-	Maximum payload [kg]	12
L	+155/-90	200	-	-	Repeatability [mm]	±0.08
U	+240/-175	220	-	-	Horizontal reach [mm]	1,440
R	±180	410	22	0.65	Vertical reach [mm]	2,511
B	±135	410	22	0.65	Weight [kg]	130
T	±360	610	9.8	0.17	Power requirements	
					DX200 / MLX300	3-phase; 240/480/575 VAC at 50/60 Hz
					FS100	1- or 3-phase; 200/230 VAC at 50/60 Hz
					MLX200	3-phase; 200/230 VAC at 50/60 Hz
					Power rating [kVA]	
					DX200 / MLX300	1.5
					FS100	1.5
					MLX200	2.6
					Internal user I/O cable	17 conductors (+ ground)
					Internal user air line	(1) 3/8" connection

Specifications for MH12 with XP package may be different.

* The MLX300 software option is not available for use with arc or spot welding, coating, dispensing, cutting or other "path control" applications.
MLX300 fieldbus cards, I/O cards and vision equipment must be purchased separately from the supplier. All peripherals are programmed using a PLC.

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



AXES LEGEND

- S-Axis: Swivel Base
- L-Axis: Lower Arm
- U-Axis: Upper Arm
- R-Axis: Arm Roll
- B-Axis: Wrist Bend
- T-Axis: Tool Flange

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