MOTOMAN ROBOTICS

HIGH-SPEED THRU-ARM DESIGN

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

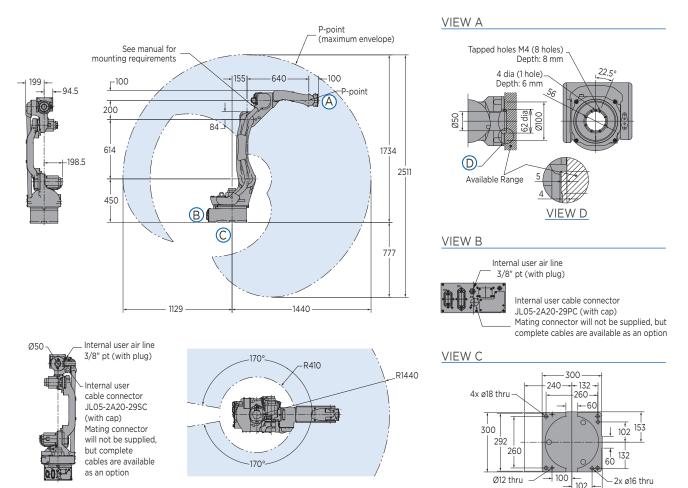
12 kg payload 1,440 mm horizontal reach 2,511 mm vertical reach ±0.08 mm repeatability



- 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. A wall-mounted version is 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



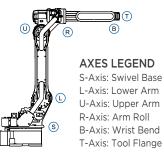
All dimensions are metric (mm) and for reference only. Request detailed drawings for all design/engineering requirements.

SPECIFICATIONS

Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia	Controlled axes Maximum payload [kg]	6 12
	[°]	[°/sec.]	[N•m]	[kg•m²]	Repeatability [mm]	±0.08
S	±170	220	-	-	Horizontal reach [mm]	1,440
L	+155/-90	200	-	-		, , , , , , , , , , , , , , , , , , ,
U	+240/-175	220	-	-	Vertical reach [mm]	2,511
R	±180	410	22	0.65	Weight [kg]	130
В	±135	410	22	0.65	Internal user I/O cable (+ ground)	17 conductors
т	±360	610	9.8	0.17	Internal user air line	(1) 3/8" connection

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



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