



MH24

ASSEMBLY | DISPENSING | MACHINE TENDING
MATERIAL HANDLING | PACKAGING

KEY BENEFITS

Thru-hole wrist design maximizes equipment uptime

Powerful wrist allows use with heavier and larger tools and parts

High speed increases production capability

Unique design maximizes reach and access while avoiding interferences

SPECIFICATIONS

24 kg payload

1,730 mm horizontal reach

3,088 mm vertical reach

±0.06 mm repeatability

CONTROLLERS



DX200



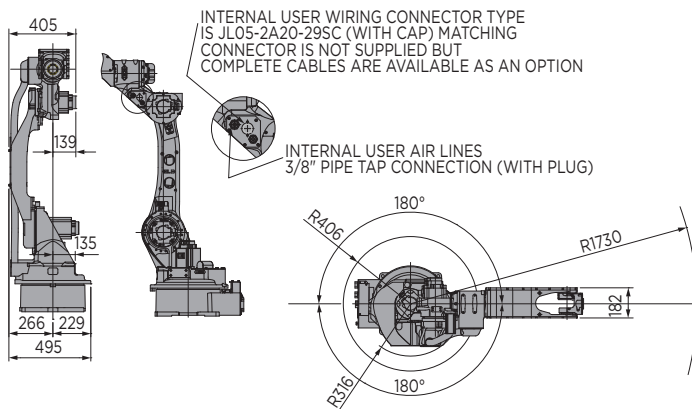
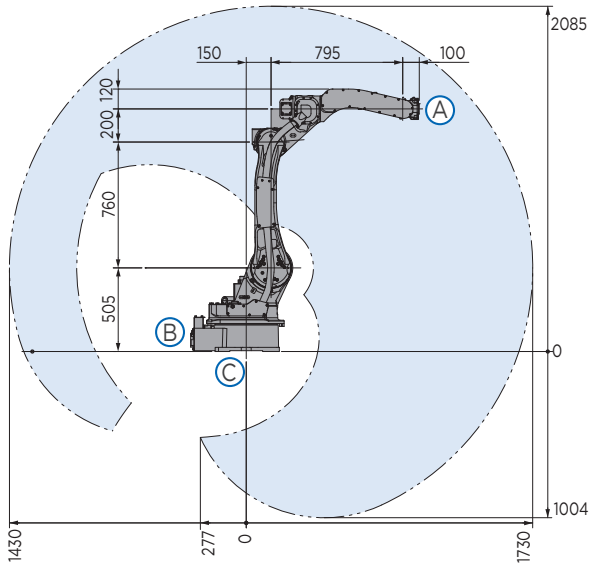
FS100



MLX100

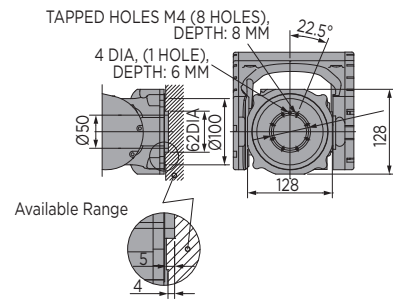
- Powerful high-speed six axis robot is ideal for many applications and processes.
- Increased 24 kg payload, as well as increased moment and inertia ratings over previous models, allow larger and heavier loads to be carried by the robot.
- Improved horizontal (1,730 mm) and vertical (3,088 mm) reach allows wider range of applications. The large work envelope extends behind the robot, allowing space for robot tool storage or maintenance.
- New hollow upper arm provides optimal cable protection and longer life while simplifying programming. A 50 mm clearance through axes 4-6 encloses the cable and protects it from wear, interference or snagging.
- Exceptionally fast axis speeds and acceleration reduces cycle times and increases production output. Fastest robot in its class due to cutting-edge Sigma-5 motors and ARM motion.
- Patented double yoke upper arm design provides additional strength if the robot is crashed. Much stronger than other six axis integrated cable designs.
- Symmetric wrist profile provides consistent motion and clearances regardless of robot approach.
- Mounting is available on the back side of the upper arm reducing interference with machines or other items in the workcell.
- The MH24 can be floor-, wall- or ceiling-mounted. Brakes are included on all axes.
- The MH24 has an IP67-rated wrist and an IP54 body standard.
- Ideally suited for use in high-density workcells with multiple robots working in close proximity.

MH24 ROBOT

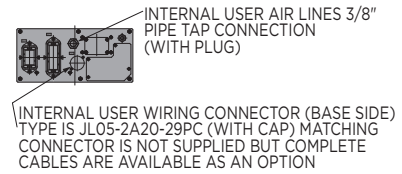


All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

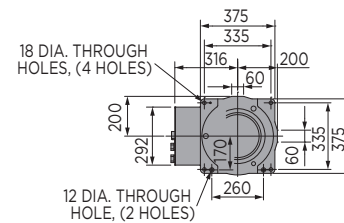
VIEW A



VIEW B



VIEW C

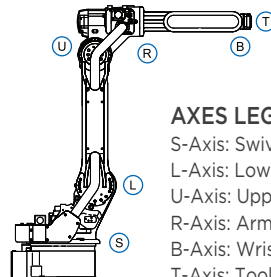


SPECIFICATIONS

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m ²]	Controlled axes	6
S	±180	197	-	-	Maximum payload [kg]	24
L	+155/-105	190	-	-	Repeatability [mm]	±0.06
U	+240/-170	210	-	-	Horizontal reach [mm]	1,730
R	±200	410	50	2.1	Vertical reach [mm]	3,089
B	±150	410	50	2.1	Weight [kg]	268
T	±455	620	30.4	1.1	Internal I/O cable [conductors w/ ground]	17
					Internal air line [connections]	(1) 3/8"

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



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

Yaskawa America, Inc.
Motoman Robotics Division

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

motoman.com

YASKAWA