

MH50 II-20

ARC WELDING | COATING | DISPENSING | MACHINE TENDING
MATERIAL CUTTING | MATERIAL HANDLING | PRESS TENDING

KEY BENEFITS

Specifically designed for processing large parts
High speed increases production
Unique design maximizes reach and access while avoiding interferences
Applicable for use in a variety of applications

SPECIFICATIONS

20 kg payload
3,106 mm horizontal reach
5,585 mm vertical reach
±0.15 mm repeatability

CONTROLLERS



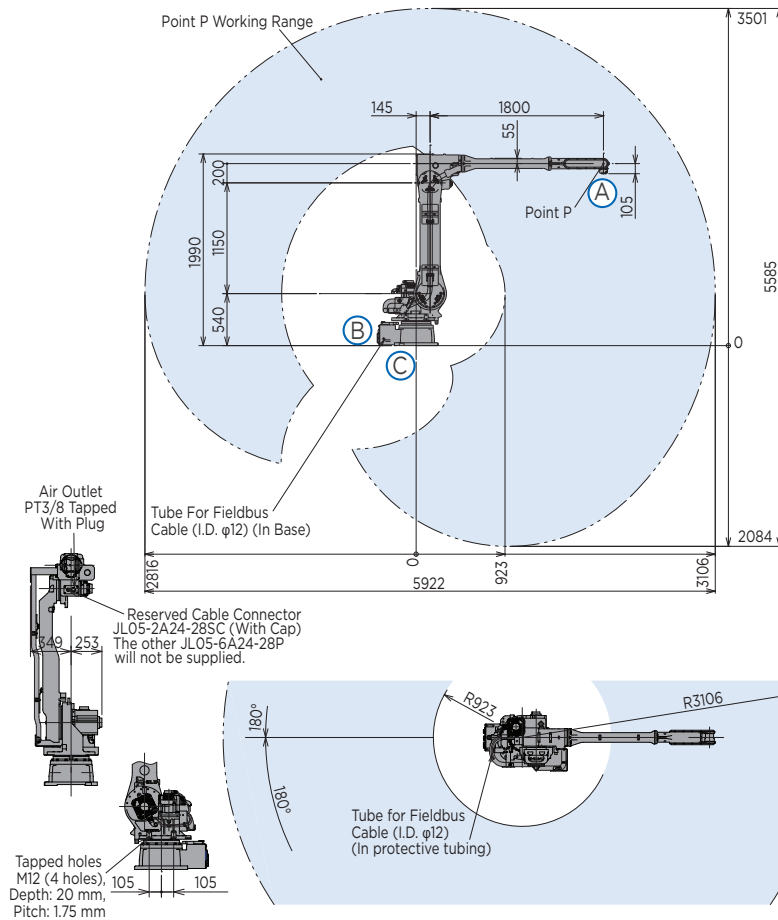
DX200



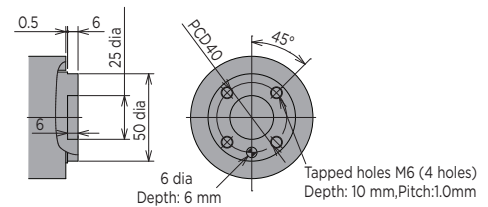
MLX300*

- Powerful, high-speed robot with long/extended reach offers superior performance in arc welding, coating, dispensing, material cutting and handling applications.
- Wide work envelope with small interference zone allows robot to be placed close to workpieces and equipment which reduces required floorspace.
- Highly reliable, six-axis robot features high-rigidity speed reducers and high-speed motion which reduce cycle times.
- High payload, moment and inertia ratings allow this robot to handle vision, laser tracking or other sensors for seam tracking applications.
- Cables and air lines are routed through robot base to upper arm to increase cable life, enhance safety and reduce teaching time.
- Cable installation tube in robot base facilitates fieldbus routing to the upper arm and/or gripper.
- MH50 II-35 is also available featuring 35 kg payload, 2,538 mm horizontal reach, 4,448 mm vertical reach and ±0.07 mm repeatability.
- The MH50 II series robots can be floor-, wall- or ceiling-mounted. Brakes on all axes.
- Mounting for peripheral equipment is provided in multiple locations to make integration easier.
- The MH50 II-20 robot features an IP67-rated wrist and an IP54-rated body.

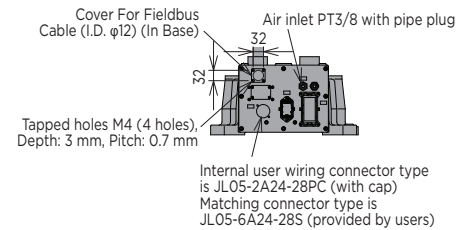
MH50 II-20 ROBOT



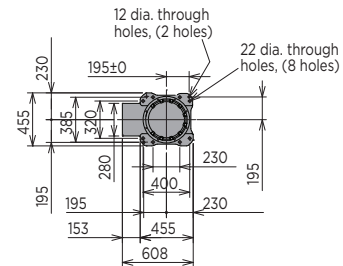
VIEW A



VIEW B



VIEW C



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

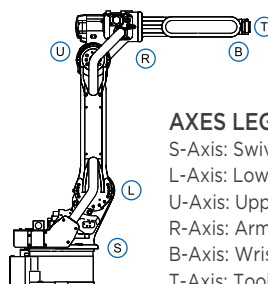
SPECIFICATIONS: MH50 II-20

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m ²]	Controlled axes	6
S	±180	180	-	-	Maximum payload [kg]	20
L	+135/-90	178	-	-	Repeatability [mm]	±0.15
U	+251/-160	178	-	-	Horizontal reach [mm]	3,106
R	±190	400	39.2	1.05	Vertical reach [mm]	5,585
B	+230/-50	400	39.2	1.05	Weight [kg]	495
T	±360	600	19.6	0.75	Power requirements	3-phase; 240/480/575 VAC at 50/60 Hz
					Power rating [kVA]	3.5
					Internal I/O cable [conductors w/ ground]	24
					Internal air line [connections]	(1) 3/8"

* 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
- External axis kits
- Wide variety of fieldbus cards
- 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

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