

MH280 II

MATERIAL HANDLING | MACHINE TENDING | PRESS TENDING

KEY BENEFITS

Small mounting surface and minimum interference radius save valuable floorspace

Optimized robot design with increased speed reduces cycle time

Increased payload, moment and inertia ratings allow use for wide variety of applications

Slim wrist profile for high density spacing and for reaching into confined spaces

- The powerful, heavy-payload MH280 II is ideal for one of the most common robotics applications today – machine tending.
- From boring to milling to grinding, the MH280 II can help improve product quality by removing inconsistencies of a manual process and deliver cost-saving benefits to metal, polymer, ceramic and composite manufacturers.
- Ideal for “jigless” applications where robot positions parts for processing by other robots, or two robots handle a single part.
- The high-speed, six-axis MH280 II robot is designed to provide superior performance, reliability and flexibility.
- High-rigidity speed reducers and high-speed motion reduce cycle times.
- Streamlined upper arm design allows easier reach into confined spaces, improving application flexibility.
- Large work envelope extends behind body (due to no counterbalance), providing a wider range of motion which can increase the number of operations in a single cell and accommodating a wide range of big, heavy parts.
- Up to 70% less power consumption during motion and 25% savings during idle periods compared to previous models.
- Cables and air lines for end effector are routed through robot base to upper arm to increase cable life, enhance safety and reduce teaching time.

SPECIFICATIONS

280 kg payload
2,446 mm horizontal reach
2,962 mm vertical reach
±0.2 mm repeatability
Floor mounted

CONTROLLERS

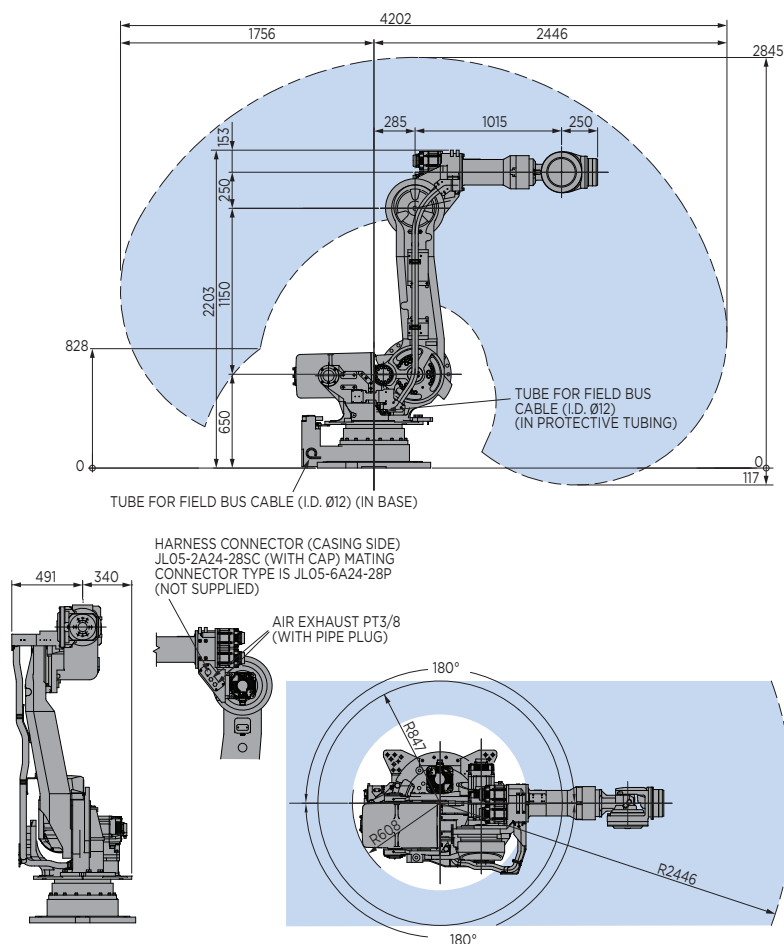


DX200



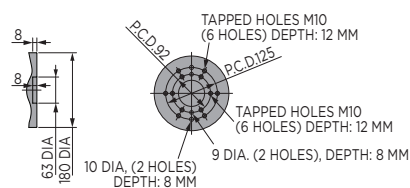
MLX300*

MH280 II ROBOTS

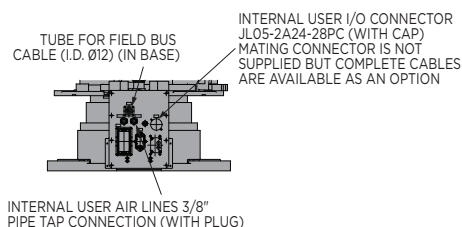


All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

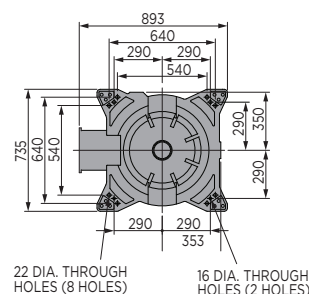
VIEW A



VIEW B



VIEW C



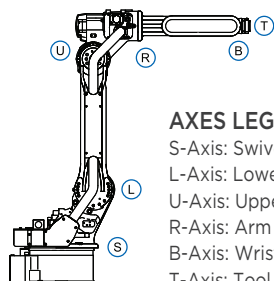
SPECIFICATIONS: MH280 II

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m ²]	Controlled axes	6
S	±180	90	-	-	Maximum payload [kg]	280
L	+76/-60	80	-	-	Repeatability [mm]	±0.2
U	+230/-142.5	90	-	-	Horizontal reach [mm]	2,446
R	±360	115	1,333	142	Vertical reach [mm]	2,962
B	±125	110	1,333	142	Weight [kg]	1,120
T	±360	190	706	79	Power requirements	3-phase; 240/480/575 VAC at 50/60 Hz
					Power rating [kVA]	5.0
					Internal I/O cable [conductors w/ ground]	24
					Internal air line [connections]	(2) 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

Yaskawa America, Inc.
Motoman Robotics Division

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

motoman.com

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