HIGH-SPEED, LOW-PROFILE DESIGN

YASKAWA



MATERIAL HANDLING | MACHINE TENDING | PRESS TENDING

MH110

KEY BENEFITS

Increased design flexibility and layout options.

Small mounting surface and minimum interference radius save valuable floorspace.

Reduced floorspace requirements improve cycle time.

Ideal for a wide variety of applications.

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

SPECIFICATIONS

110 kg payload 2,236 mm horizontal reach 3,751 mm vertical reach ±0.07 mm repeatability Floor mounted



- Powerful six-axis handling robot features high-rigidity speed reducers and high-speed motion which reduce cycle times.
- Increased payload capacity and increased speed of each axis over previous models.
- High payload and high moment and inertia ratings allow this robot to handle larger and heavier payloads.
- Streamlined upper arm design features a slim wrist profile.
- New compact base design reduces robot interference radius to only 491 mm. This allows the robot to be mounted closer to machines and fixtures, making best use of valuable floorspace.
- New design removes the counterbalance from robot base. This reduces the mass of the arm, enabling higher acceleration, deceleration and speed.

- Up to 70% less power consumption during motion and 25% savings during idle periods compared to previous models.
- Cables and air lines are routed through robot base to upper arm to increase cable life, enhance safety and reduce teaching time.
- Pre-wired for servo gripper which allows a wider range of product handling.
- Pre-wired with internal DeviceNet cable that can be used for robot upper arm and/or gripper.
- Cable installation tube in robot base facilitates fieldbus routing to the upper arm and/or gripper.



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Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m²]	Controlled axes Maximum payload [kg] Repeatability [mm]	6 110 ±0.07
S	±180	140	-	-	Horizontal reach [mm]	2,236
L	+155/-90	110	-	-	Vertical reach [mm] Temperature [°C]	3,751 O to +45
U	+160/-185	130	-	-	Humidity [%] Weight [kg]	20 - 80 625
R	±360	175	721	60	Power requirements	3-phase; 240/480/575 VAC at 50/60 Hz
В	±125	175	721	60	Power rating [kVA] Internal I/O cable [conductors w/ ground]	5.0 24 conductors
Т	±360	255	294	33.7	Internal air line [connections]	(5) 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



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