

GP110

HIGH-SPEED, LOW-PROFILE ROBOT

KEY BENEFITS

High payload for heavy part processing

Engineered for easy installation, operation and maintenance

Single robot-to-controller cable connection enables fast setup

SPECIFICATIONS

110 kg payload

2,236 mm horizontal reach

3,751 mm vertical reach

0.03 mm repeatability

APPLICATION

Dispensing

Machine Tending

Material Handling

Material Removal

Press Tending

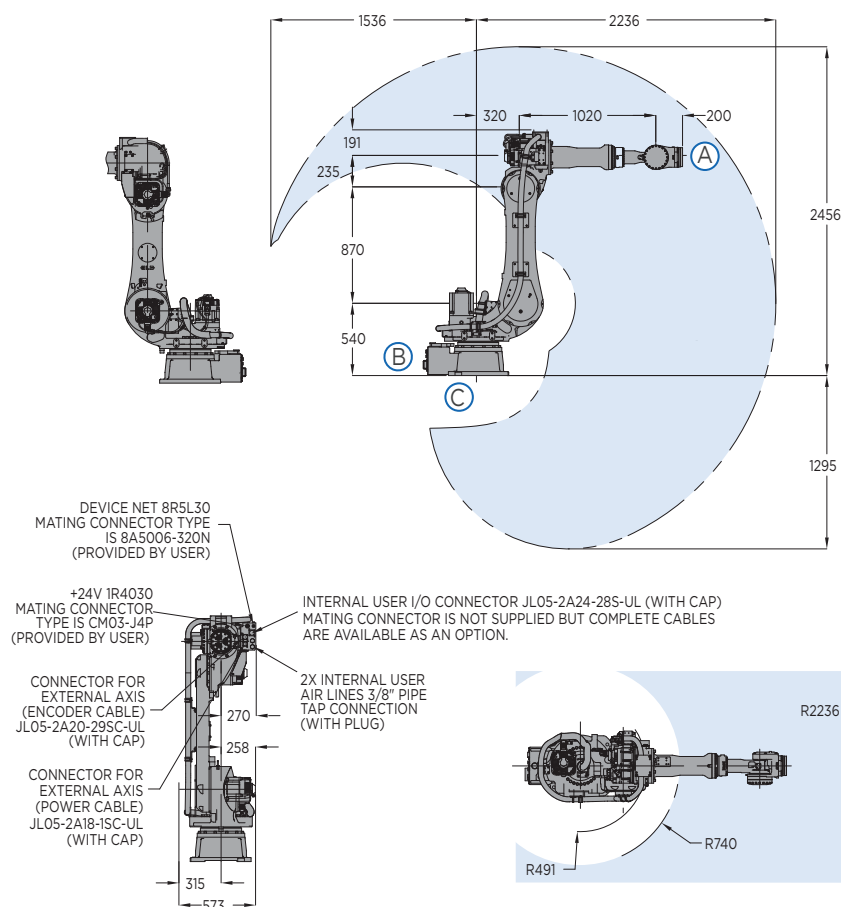
CONTROLLER

YRC1000

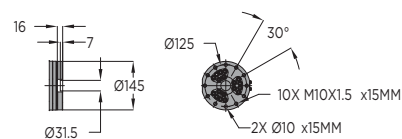


- Increase productivity with the powerful and efficient six-axis GP110 robot.
- 110 kg payload and high moment and inertia ratings provide superior performance for large and heavy handling applications.
- Exceptionally fast axis speeds and acceleration reduce cycle time and increase production output.
- Reduced interference design allows close proximity placement of robots for high-density workcells.
- Wide wrist motion range eliminates interference and improves application flexibility.
- 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 for a wide range of product handling.
- Cable installation tube facilitates fieldbus routing through the S-axis.
- Single power and control cable reduces wiring time and increases work efficiency.
- Modular robot harness design for improved diagnostics and maintenance.
- Home position data can be saved without battery connection for easy maintenance.
- The GP110 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.
- The GP110 can be floor-mounted. Brakes are included on all axes.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

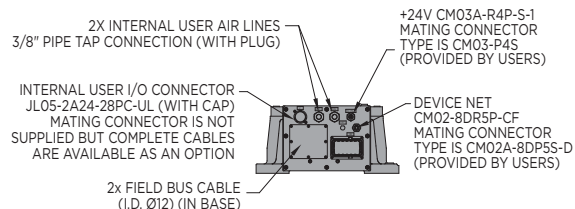
GP110 ROBOT



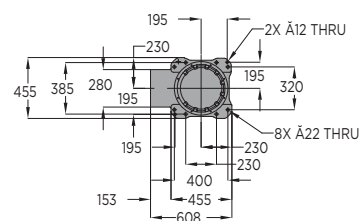
VIEW A



VIEW B



VIEW C



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

SPECIFICATIONS

Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia
	degrees	°/sec	N•m	kg•m ²
S	±180	140	-	-
L	+155/-90	110	-	-
U	+90/-80	130	-	-
R	±360	175	721	60
B	±125	175	721	60
T	±360	255	294	33.7

Specifications for GP110 with XP package may be different.

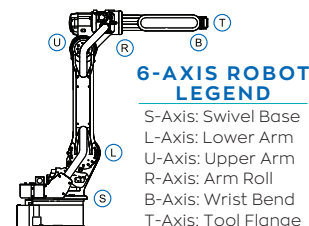
Mounting Options: Floor

* The MLX300 software option is not available for use with arc or spot welding applications. MLX300 fieldbus cards, I/O cards and vision equipment must be purchased separately from the supplier. All peripherals are programmed using a PLC.

Item	Unit	GP110
Controlled axes		6
Maximum payload	kg	110
Repeatability	mm	0.03
Horizontal reach	mm	2,236
Vertical reach	mm	3,751
Weight	kg	660
Internal user I/O cable		24 conductors w/ ground
Internal user air line		(2) 3/8" connection
Power requirements		380-480 VAC
Power rating	kVA	5

OPTIONS

- Robot risers and base plates
- Extended length manipulator cables
- Wide variety of fieldbus cards
- External axes
- PLC integration via MLX300 software option*
- Functional Safety Unit (FSU)
- MotoSight™ 2D and 3D vision



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