

GP110B

HIGHLY-FLEXIBLE, 7-AXIS ROBOT

KEY BENEFITS

Additional E-axis creates variable length L arm

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

3,792 mm vertical reach

0.04 mm repeatability

APPLICATION

Dispensing

Machine Tending

Material Handling

Material Removal

Press Tending

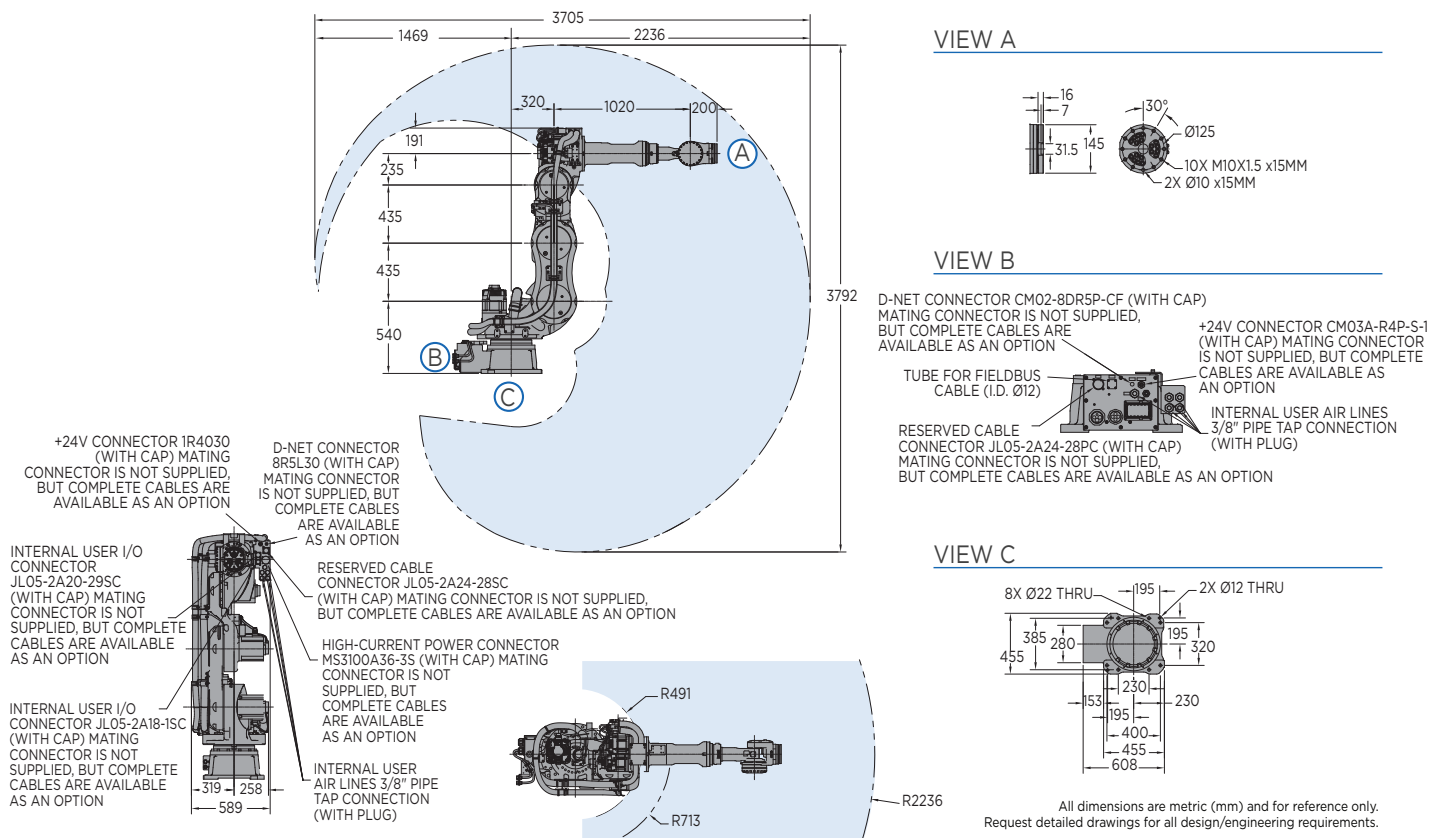
CONTROLLER

YRC1000



- Increase productivity with the powerful, efficient and highly-flexible GP110B seven-axis robot.
- 110 kg payload capacity and high moment and inertia ratings provide superior performance for large and heavy handling applications.
- Seven axes provide increased motion range and additional flexibility for obstacle avoidance and reaching difficult areas.
- Wide wrist motion range eliminates interference and improves application flexibility.
- Reduced interference design allows close proximity placement of robots for high-density workcells.
- Distance between the L-axis and U-axis can be changed by adjusting the angle of the E-axis, effectively creating a variable length L arm.
- 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 GP110B 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 GP110B can be floor-mounted. Brakes are included on all axes.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

GP110B ROBOT



SPECIFICATIONS

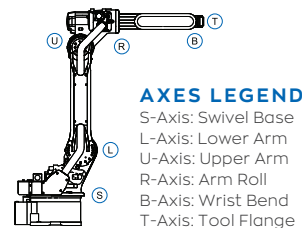
Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia	Item	Unit	GP110B
	degrees	°/sec	N·m	kg·m ²	Controlled axes		7
S	±180	140	-	-	Maximum payload	kg	110
L	+155/-45	110	-	-	Repeatability	mm	0.04
E	+120/-45	110	-	-	Horizontal reach	mm	2,236
U	+90/-70	130	-	-	Vertical reach	mm	3,792
R	±360	175	721	60	Weight	kg	790
B	±125	175	721	60	Internal user I/O cable		24 conductors w/ ground
T	±360	255	294	33.7	Internal user air line		(5) 3/8" connection
					Power requirements		380-480 VAC
					Power rating	kVA	5

Specifications for GP110B 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.

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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