

GP25

EFFICIENT, HIGH-SPEED ROBOT

KEY BENEFITS

High payload, axis speed and wrist allowable moment ratings
Space-efficient design
Engineered for easy installation, operation and maintenance

SPECIFICATIONS

25 kg payload
1,730 mm horizontal reach
3,089 mm vertical reach
0.02 mm repeatability

APPLICATION

Assembly
Dispensing
Material Handling
Material Removal
Packaging

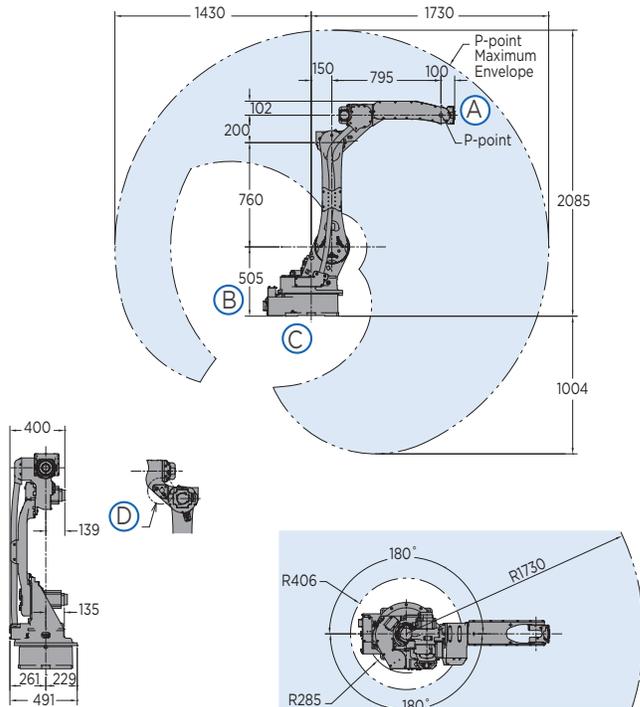
CONTROLLER

YRC1000

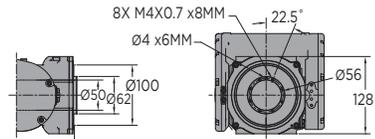


- Increase your productivity with the fast and efficient GP25 robot.
- All axis speeds have been increased, some over 40%, surpassing other robots in its class.
- Minimum acceleration/deceleration times provide high performance.
- Reduced interference design allows close proximity placement of robots.
- Hollow upper arm provides optimal cable protection and longer life while simplifying programming. A 50 mm clearance through axes 4-6 encloses the cable and protects it from wear, interference or snagging.
- Patented double yoke upper arm design provides additional strength if the robot is crashed. Much stronger than other six-axis integrated cable designs.
- High wrist allowable moment for accurate and repeatable handling.
- Increased 25 kg payload, as well as increased moment and inertia ratings over previous models, allow larger and heavier loads to be carried by the robot.
- 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.
- NSF-H1 certified food-grade lubricant option available for food or consumer product packaging environments.
- The GP25 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 GP25 can be floor-, wall-, tilt- or ceiling-mounted. Brakes are included on all axes.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

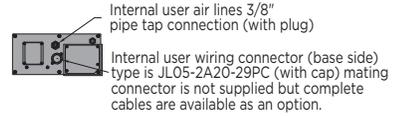
GP25 ROBOT



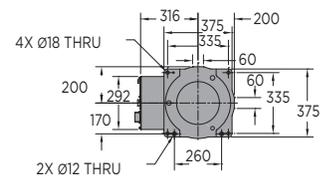
VIEW A



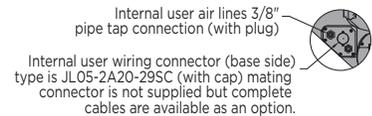
VIEW B



VIEW C



VIEW D



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	210	-	-
L	+155/-105	210	-	-
U	+160/-86	265	-	-
R	±200	420	52	2.3
B	±150	420	52	2.3
T	±455	885	32	1.2

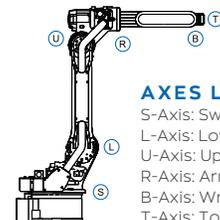
Specifications for GP25 with XP package may be different. Mounting Options: Floor, Wall, Tilt or Ceiling

* 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	GP25
Controlled axes		6
Maximum payload	kg	25
Repeatability	mm	0.02
Horizontal reach	mm	1,730
Vertical reach	mm	3,089
Weight	kg	250
Internal user I/O cable		17 conductors w/ ground
Internal user air line		(1) 3/8" connection
Power requirements		380-480 VAC
Power rating	kVA	2.0

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



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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