

GP70L

HIGH-SPEED, EXTENDED-REACH ROBOT

KEY BENEFITS

Extended reach and high speeds allow use in a variety of applications

High wrist ratings provide higher handling capacity

Engineered for easy installation, operation and maintenance

Single robot-to-controller cable connection enables fast setup

SPECIFICATIONS

70 kg payload

2,732 mm horizontal reach

4,715 mm vertical reach

0.05 mm repeatability

APPLICATION

Dispensing

Machine Tending

Material Handling

Palletizing

Press Tending

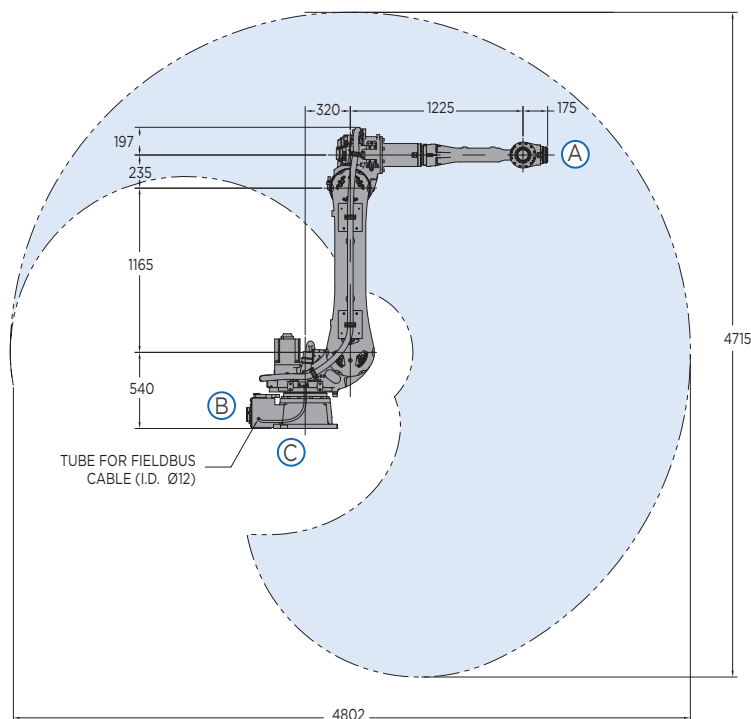
CONTROLLER

YRC1000

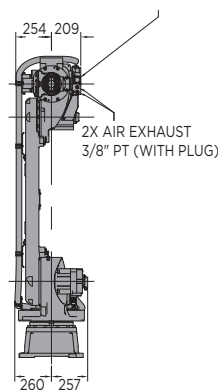


- Increase your productivity with the powerful and efficient GP70L robot.
- Extended-reach, six-axis robot offers superior performance for a variety of applications.
- 70 kg payload supports a wide variety of tooling and sensors to fulfill diverse project needs.
- Exceptionally fast axis speeds and acceleration capabilities 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.
- High moment and inertia ratings allow handling of larger and heavier payloads.
- Cables and air lines are routed through robot base to upper arm to increase cable life, enhance safety and reduce teaching time.
- Cable installation tube facilitates fieldbus routing through the S-axis.
- Mounting for peripheral equipment is provided in multiple locations to make integration easier.
- 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 GP70L has an IP67-rated wrist and an IP54 body standard.
- The GP70L robot is floor-mounted only. Brakes are included on all axes.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

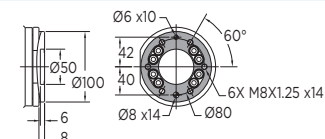
GP70L ROBOT



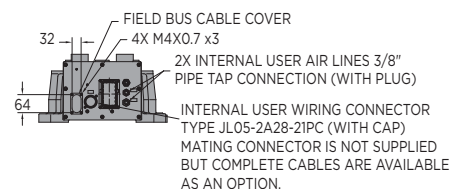
INTERNAL USER CABLE CONNECTOR
JL05-2A28-21SC (WITH CAP)
MATING CONNECTOR WILL NOT BE
SUPPLIED, BUT COMPLETE CABLES
ARE AVAILABLE AS AN OPTION



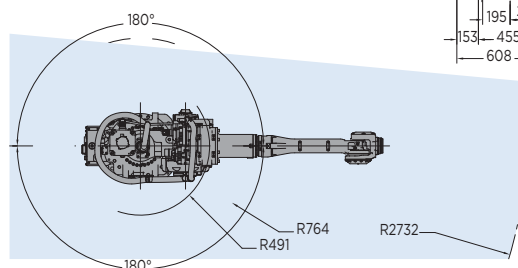
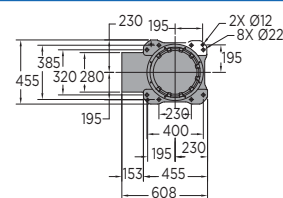
VIEW A



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	180	-	-
L	+155/-90	123	-	-
U	+90/-80	160	-	-
R	±360	230	392	28
B	±125	230	392	28
T	±360	350	196	11

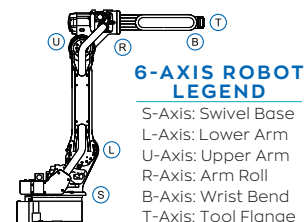
Mounting Options: Floor

* 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	GP70L
Controlled axes		6
Maximum payload	kg	70
Repeatability	mm	0.05
Horizontal reach	mm	2,732
Vertical reach	mm	4,715
Weight	kg	650
Internal user I/O cable		36 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
- PalletSolver® software
- PLC integration via MLX300 software option*
- Functional Safety Unit (FSU)
- MotoSight™ 2D and 3D vision



6-AXIS ROBOT 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

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