## **YASKAWA**

# **GP12**

Efficient, High-Speed Robot



Highest payload, speeds and wrist allowable moment in its class

Space-efficient design

Engineered for easy installation, operation and maintenance

## Specifications

12 kg payload 1,440 mm horizontal reach 2,511 mm vertical reach ±0.08 mm repeatability

### **Applications**

Assembly

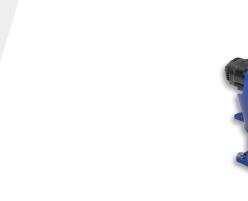
Material Handling

Packaging

#### Controllers

YRC1000

MLX300 \* Software Option

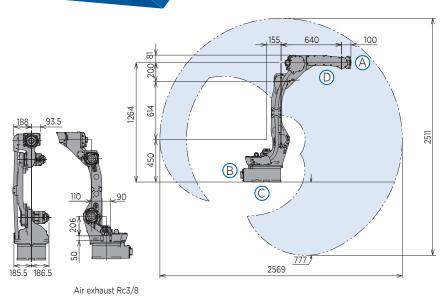


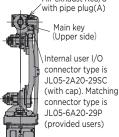
YASKAWA

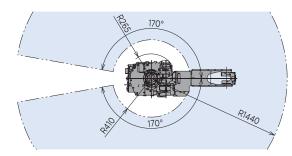
- Increase your productivity with the fast and efficient GP12 robot
- All axis speeds have been increased by up to 15% surpassing other robots in its class
- Reduced interference design allows close proximity placement of robots
- Maximum reduction of acceleration/ deceleration times for all robot positions
- Hollow arm structure eliminates cable interference
- Highest wrist allowable moment for accurate and repeatable handling
- Higher payload allows wider range of tooling integration such as double gripper for multi-handling operations
- IP67-rated wrist and IP54 body (IP65 optional)
- Easy, single cable connection for fast setup and simple maintenance

- Equipped with data saving feature that permits the robot's wire harness to be replaced without having to connect it to a battery
- Ideal for high-volume assembly, handling and packaging applications
- The GP-series robots are controlled by Yaskawa's new high-performance YRC1000 controller that is built to a global standard and does not require a transformer for input voltages ranging from 380VAC to 480VAC. It is highly compact, resulting in reduced space requirements. Its I/O communication speed is improved by as much as 50% for improved work efficiency.

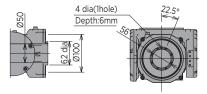
## GP12 Robot







#### VIEW A



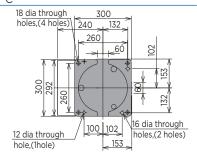
#### VIEW B



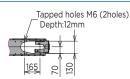
Internal User Air Line Rc3/8 with pipe plug(A)

Internal user wiring connector type is JL05-2A20-29PC (with cap) Matching connector type is JL05-6A20-29S (provided users)

#### 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 [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m²]
S	±170	260	-	-
L	+155/-90	230	-	-
U	+150/-85	260	-	-
R	±200	470	22	0.65
В	±150	470	22	0.65
Т	±455	700	9.8	0.17

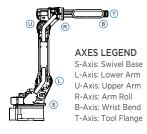
Mounting Options: Floor, Wall or Ceiling

<sup>\*</sup> 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.

Item	GP12	
Controlled axes	6	
Maximum payload [kg]	12	
Repeatability [mm]	±0.08	
Horizontal reach [mm]	1,440	
Vertical reach [mm]	2,511	
Weight [kg]	130	
Internal user I/O cable	17 conductors (+ ground)	
Internal user air line	(1) 3/8" connection	
Power requirements	380-480 VAC	
Power rating [kVA]	1.5	

## **Options**

- · Robot risers and base plates
- MotoSight™ 2D and 3D vision systems



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