YASKAWA

GP7 and GP8

Compact, High-Speed Robots



Highest payload, speeds and wrist allowable moment in its class

Compact, space-efficient design

Engineered for easy installation, operation and maintenance

IP67 rating for use in a wide variety of applications

Specifications

GP7

7 kg payload 927 mm horizontal reach 1,693 mm vertical reach ±0.03 mm repeatability

GP8

8 kg payload 727 mm horizontal reach 1,312 mm vertical reach ±0.02 mm repeatability

Applications

Assembly

Material Handling

Packaging

Controllers

YRC1000

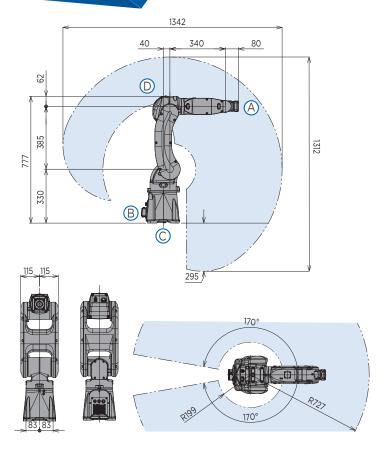
YRC1000micro



- Increase your productivity with the fast and efficient GP7 and GP8 robots.
- All axis speeds have been increased by up to 39% surpassing other robots in its class.
- Small footprint, slim body design allows for minimum installation space.
- IP67 rating and easy-to-clean surface for use in sanitary or harsh environments.
- Reduced interference design allows close proximity placement of robots.
- Increased reach enables wider work area.
- 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.
- Single power and control cable reduces wiring time and increases work efficiency.

- New robot harness design for improved diagnostics and maintenance.
- Home position data can be saved without battery connection for easy maintenance.
- Optional location (bottom) for manipulator cable connection reduces interference with walls.
- Ideal for high-volume assembly, handling and packaging applications.
- NSF-H1 certified food-grade lubricant option available for food or consumer product packaging environments.
- The GP7 and GP8 have 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 GP7 and GP8 robots are available with either the standard teach pendant or the Smart Pendant.

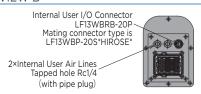
GP7 and GP8 Robots



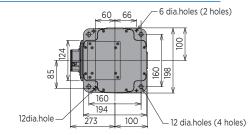
VIEW A



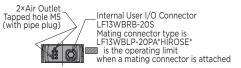
VIEW B



VIEW C



VIEW D



GP8 robot shown.
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]			
	GP7	GP8	GP7	GP8	GP7	GP8	GP7	GP8		
S	±170	±170	375	455	-	-	-	-		
L	+145/-65	+150/-65	315	385	-	-	-	-		
U	+255/-116	+255/-113	410	520	-	-	-	-		
R	±190	±190	550	550	17	17	0.5	0.5		
В	±135	±135	550	550	17	17	0.5	0.5		
Т	±360	±360	1000	1000	10	10	0.2	0.2		

Specifications for GP7 and GP8 with XP package may be different.

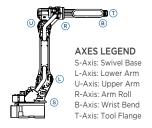
Mounting Options: Floor, Wall, Tilt or Ceiling

* 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.

Options

- Robot risers and base plates
- MotoSight[™] 2D and 3D vision systems
- PLC integration via MLX300 software option*

Item	GP7	GP8		
Controlled axes	6	6		
Maximum payload [kg]	7	8		
Repeatability [mm]	±0.03	±0.02		
Horizontal reach [mm]	927	727		
Vertical reach [mm]	1,693	1,312		
Weight [kg]	34	32		
Internal user I/O cable	17 conductors (+ ground)			
Internal user air line	(2) 1/4" connection			
Power requirements	380-480 VAC			
Power rating [kVA]	1	1		





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