

MOTOMAN GP8

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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MOTOMAN GP-Series

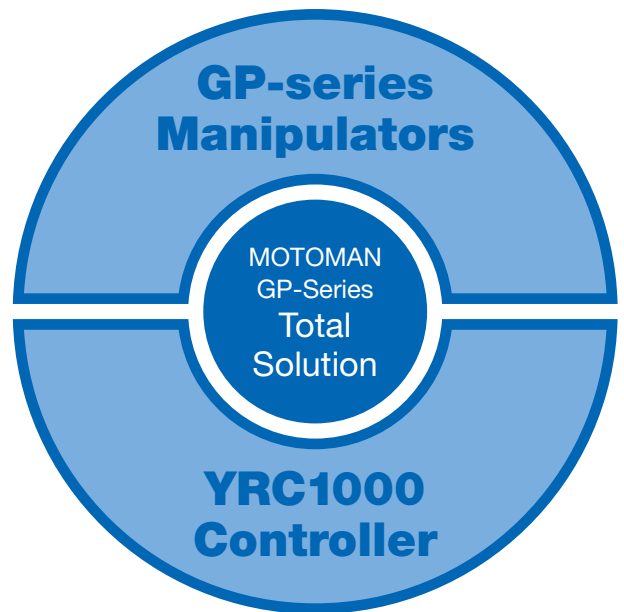
Robot System Solutions MOTOMAN GP-Series

Find smart solutions for production site issues with YASKAWA's cutting-edge robot systems.



YASKAWA has the answer!

We can meet customer's diversified needs with a variety of functions and components.



GP7



GP8



GP12



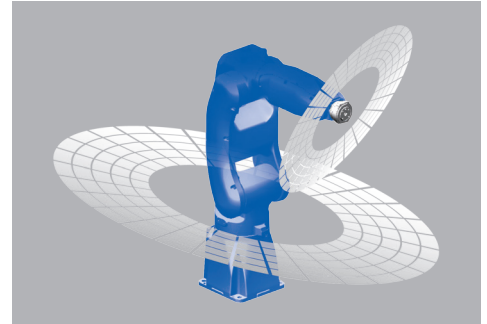
YRC1000 Controller

GP7 and GP8 – Compact and High Speed

Increase productivity

Highest payloads, speeds and wrist allowable moment in its class

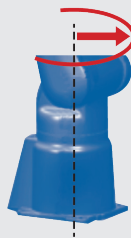
- A variety of workpieces can be transferred and different grippers can be mounted with 7-kg and 8-kg payloads and 38 % greater allowable moment
- Speeds of all axes have been increased by 39 % (max)
- Acceleration/deceleration control has been improved to achieve maximum reduction of acceleration/deceleration times for all robot postures



Reduced interference radius when S-axis is turning

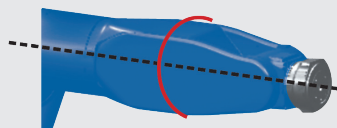


Former model MH5(L)S II
Interference radius: 182 mm



New model GP7 and GP8
Interference radius: 140 mm

Reduced interference radius when the wrist is turning

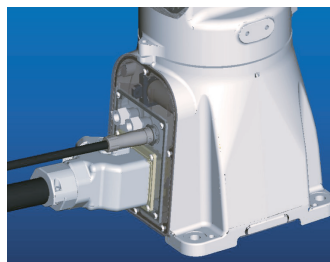


Former model (MH5S II): 73 mm
New model (GP7 and GP8): 67 mm

Make equipment compact

Slim and easy-to-use structure

- Slim robot body requires minimum installation space (minimizes L-U axis offset)
- The manipulator cable can be connected at the bottom section, which reduces interference with walls and requires far less installation space when compared with cable connections on the side of the robot
- Increased maximum reach and horizontal reach enables robots to operate in wider work areas
- The slim, straight, and symmetrical arm design minimize interference with peripheral devices even in small spaces



Manipulator cable connection on the side and bottom (optional) of the robot

Improve efficiency in installation, operation and maintenance of equipment

Easy set-up

- Only one cable is required, which reduces setup time

High environmental performance

- Its structure can resist dust and coolants due to its IP67 standard protection class

Easy-to-clean design

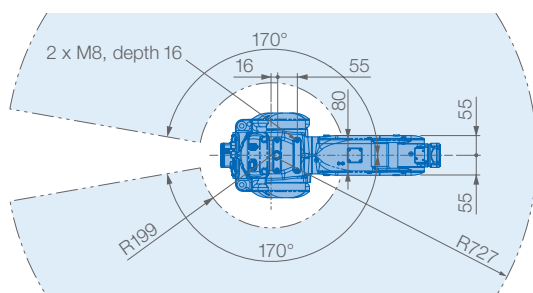
- Robot surface is designed to prevent adherence of dust

Easy maintenance

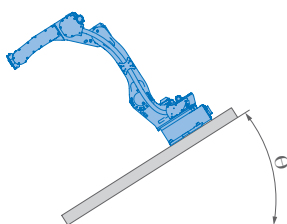
- Data saving feature enables to replace the wire harness in the robot without having to connect to a battery
- Productivity improvement due to reduction in number of cables & connectors



Rounded shape and smooth surface



- Free from corrosive gasses or liquids, or explosive gasses
- Free from exposure to water, oil or dust
- Free from excessive electrical noise (plasma)



Technical drawing of a 6-port hydraulic connector. The drawing includes a side view and a top view.

Side View (Left):

- Shows the fitting depth.
- Outer diameter: $\varnothing 12 \text{ H6}$.

Top View (Right):

- Shows the hexagonal body with 6 ports.
- Chamfer angle: 45° .
- Bore diameter: $\varnothing 31.5$.
- Port thread: $\varnothing 5 \text{ H7}$, depth 7.

Internal user wiring connector
Matching connector
2 x Air inlet PT1/4 with pipe plug

Technical drawing of the front view of a motor. The drawing shows a square flange with a central mounting hole. Dimensions are provided in millimeters (mm) with tolerances.

- Overall width: 194 mm
- Overall height: 197 mm
- Mounting flange diameter: 160 mm
- Mounting hole diameter: $\varnothing 12 \text{ H7}$
- Central shaft diameter: 85 ± 0.1 mm
- Flange thickness: 100 ± 0.05 mm
- Distance from center to mounting hole center: 66 ± 0.1 mm
- Distance from center to mounting hole center: 60 ± 0.1 mm
- Distance from center to mounting hole center: 160 mm
- Distance from center to mounting hole center: 194 mm
- Distance from center to mounting hole center: 100 ± 0.05 mm
- Distance from center to mounting hole center: 4 x $\varnothing 12$

Montagemöglichkeiten: Boden, Decke, Wand
Schutzklasse: IP67

Robot installation angle deg. [°]	S-axis operating range [°]
$0 \leq \theta \leq 30$	±170 degrees or less (no limit)
$30 < \theta \leq 35$	±60 degrees or less
$35 < \theta \leq 40$	±50 degrees or less
$40 < \theta \leq 45$	±45 degrees or less
$45 < \theta \leq 50$	±40 degrees or less
$50 < \theta \leq 60$	±35 degrees or less
$60 < \theta$	±30 degrees or less

Specifications GP8						
Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
					Max. payload [kg]	8
S	±170	455	–	–	Repeatability [mm]	±0.02*
L	+145/–65	385	–	–	Max. working range R [mm]	727
U	+255/–113	520	–	–	Temperature [°C]	0 to +40
R	±190	550	17	0.5	Humidity [%]	20 – 80
B	±135	550	17	0.5	Weight [kg]	32
T	±360	1000	10	0.2	Power supply, average [KVA]	1**

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