

MOTOMAN GP12

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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MOTOMAN GP-Series

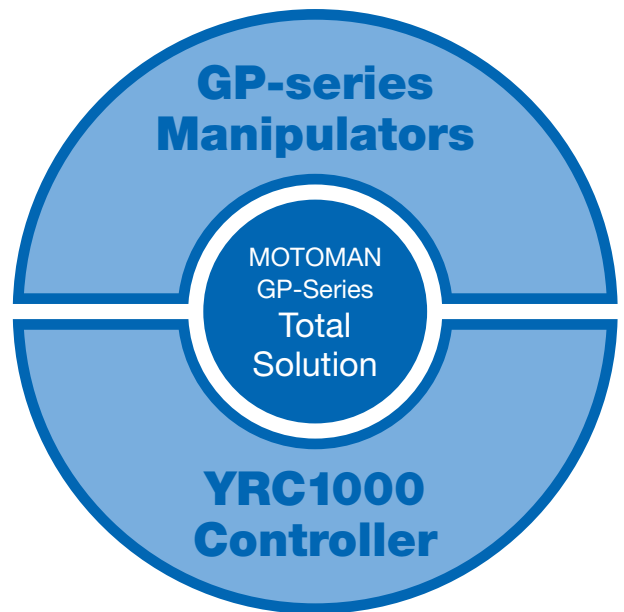
Robot System Solutions MOTOMAN GP-Series

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

GP12 – World's Highest Speed in its Class

Increase productivity

Highest payloads, speeds and wrist allowable moment in its class

- The productivity of the customer's equipment can be improved with the highest speed in the 12-kg payload class
- Acceleration/deceleration control has been improved to achieve maximum reduction of acceleration/deceleration times for all robot postures

Maximum speed has been increased 15 % (max.) in comparison to the former model



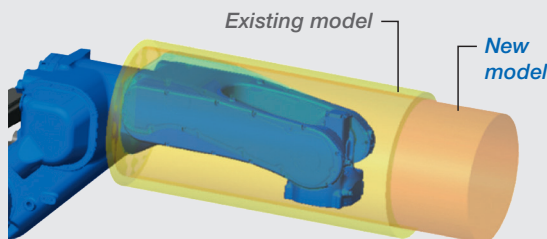
Hollow arm



50 mm dia.



50 mm dia.



Minimized interference radius of the wrist

MH12 (earlier model): 136 mm

GP12 (new model): 120 mm

Make equipment compact

Easy-to-use structure

- The hollow arm structure to store cables reduces operation restriction due to cable interference, simplifies teaching and eliminates cable disconnection caused by interference

Best accessibility in its class

- The slim arm design minimizes interference with peripheral devices even in small spaces

Improve efficiency in installation, operation and maintenance of equipment

Easy set-up

- Only one cable is required, which reduces setup time

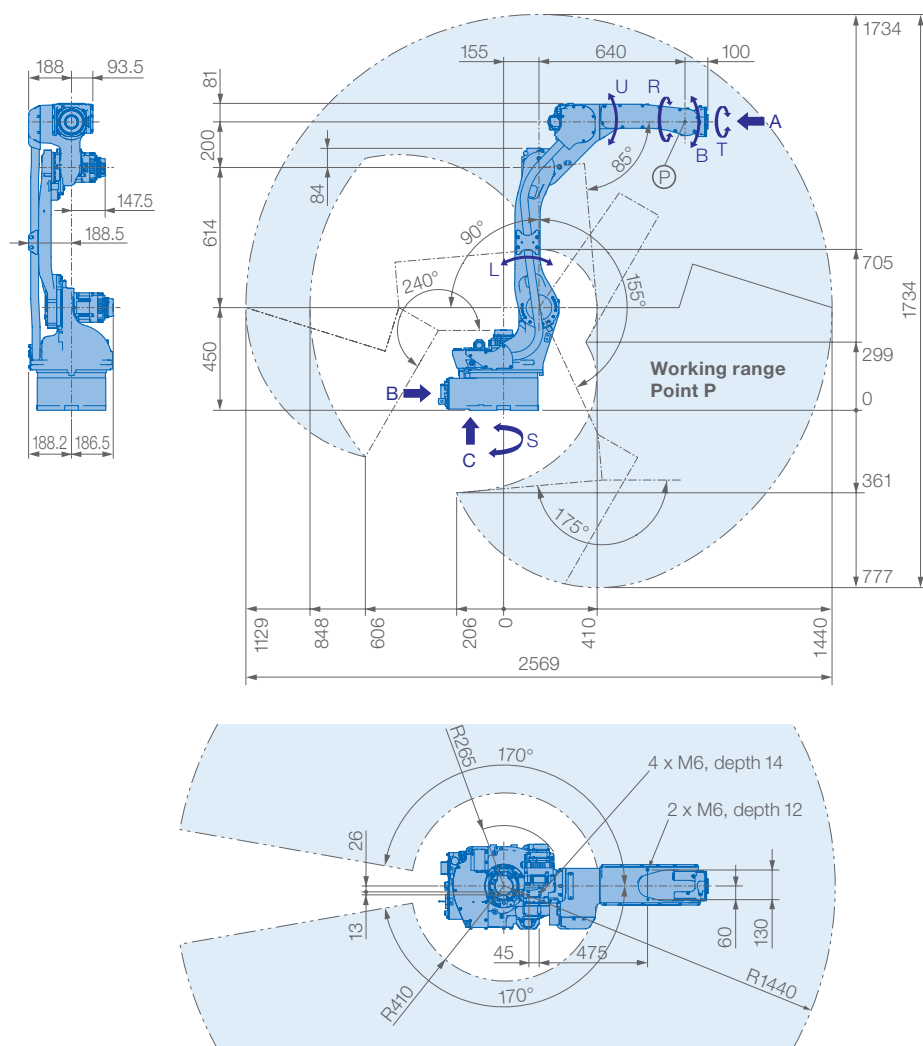
Wrist structure with great environment resistance

- Wrist structure of R, B and T axes are IP67-compliant as a standard specification
- Wrist structure of S, L and U axes are IP54-compliant (option IP65)

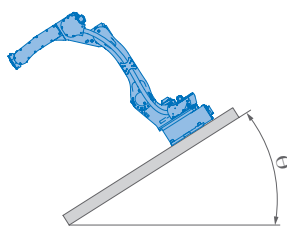
Easy maintenance

- 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

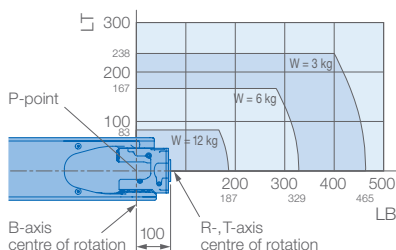




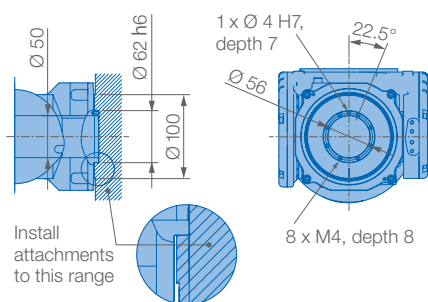
- Free from corrosive gasses or liquids, or explosive gasses
- Free from exposure to water, oil or dust
- Free from excessive electrical noise (plasma)



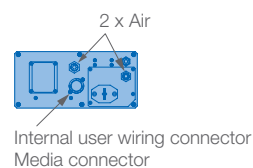
Allowable wrist load



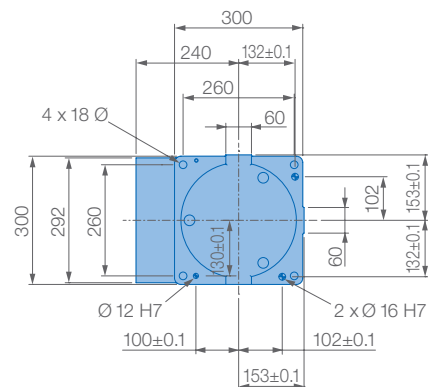
View A



View B



View C



Mounting options: Floor, ceiling, wall

Protection class: Main axes (S, L, U) IP54 (option 65), wrist IP67

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

Specifications GP12

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
S	±170	260	—	—	Max. payload [kg]	12
L	+155/−90	230	—	—	Repeatability [mm]	±0.08*
U	+155/−85	260	—	—	Max. working range R [mm]	1440
R	±200	470	22	0.65	Temperature [°C]	0 to +40
B	±150	470	22	0.65	Humidity [%]	20 – 80
T	±455	700	9.8	0.17	Weight [kg]	150
					Power supply, average [KVA]	1.5**

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