

MOTOMAN GP20

Handling & General Applications with the GP-series



The MOTOMAN GP20 is a very versatile 6-axis industrial robot for payloads up to 20 kg. It has a reach of 1,802 mm and can achieve very fast cycle times with excellent repeatability.

The slim design, especially of the wrist allows the use in many applications, e.g. workpiece handling or machine loading/unloading. Due to its stable and IP67 protected wrist, the GP20 is also very well suited for machining or grinding operations.

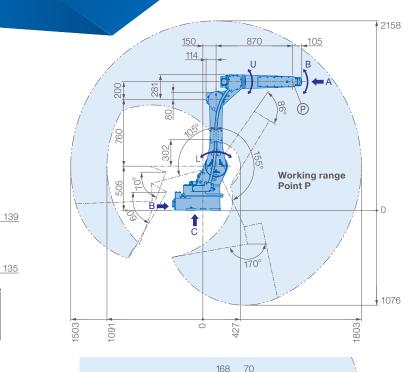
Combined with the proven Teach pendant, the robot can be perfectly integrated in automation environments. With the innovative operating concept of the SmartPendant, it offers a very good entry into industrial automation.

KEY BENEFITS

- Slim design
- Versatile large range of potential applications
- Powerful: 20 kg payload
- Large working range: 1,802 mm
- Stable, low-vibration wrist
- Fast movements due to high axis speeds and acceleration
- Easy commissioning, operation and maintenance



MOTOMAN GP20





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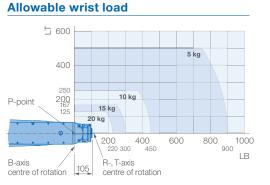
(491)

400

50



Robot installation angle ⊖ [deg.]	S-axis operating range [deg.]		
$0 \le \Theta \le 30$	±180 max. no limit		
$30 < \Theta \leq 35$	±60 max.		
35 < O	±30 max.		



x M6 x 12

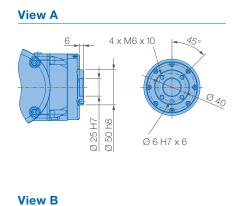
4 x M6 x 14

15

45

150

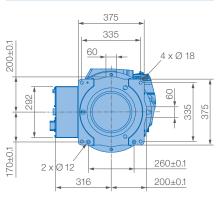
R1802





x Air Internal user wiring connector Media connector

View C



Mounting options: Floor, ceiling, wall, tilt* IP Protection: IP54 (body S, L, U), IP67 (wrist) * tilt with condition of angle - see table left side

Prevent interaction of the robot with:

Corrosive gases, liquids or explosive gases
Exposure to water, oil or dust
Excessive electrical noise (plasma)

Specifications GP20						
Axes	Maximum motion range Maximum speed [°] [°/s]		Allowable moment	Allowable moment of inertia	Controlled axes	6
		[Nm]	[kg · m ²]	Max. payload [kg]	20	
S	±180	210	-	-	Repeatability [mm]	±0.02
L	+155/-105	210	-	-	Max. working range R [mm]	1802
U	+160/-86	265	-	-	Temperature [°C]	0 to +45
R	±200	420	44	2.3	Humidity [%]	20 - 80
В	±140	420	44	2.3	Weight [kg]	250
т	±455	720	24.5	1.2	Power supply, average [kVA]	2.0

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All drawing dimensions in mm. Technical data may be subject to change without previous notice. Please request detailed drawings at robotics@yaskawa.eu.com.