

MOTOMAN GP20

Handling & General Applications
with the GP-series



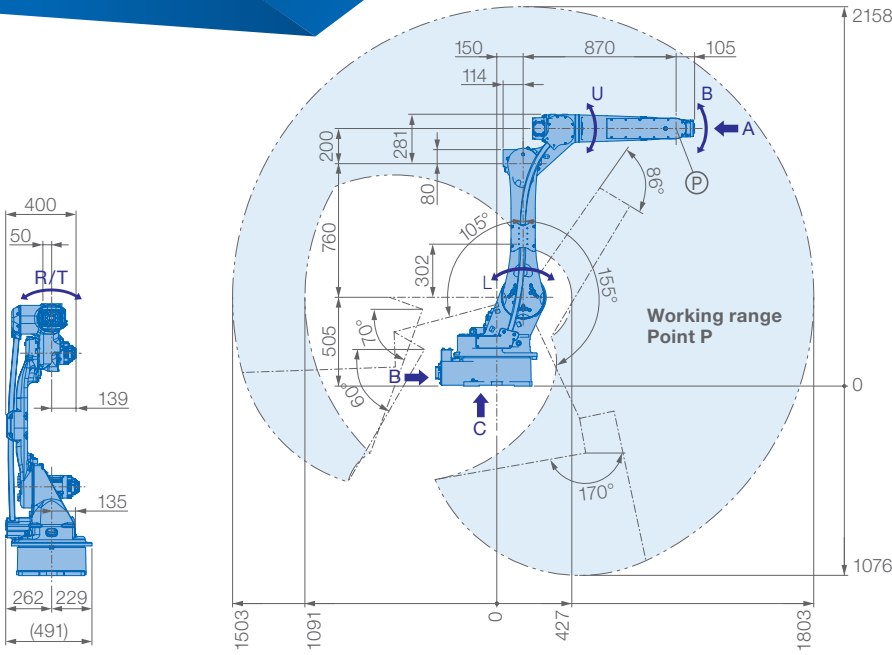
The MOTOMAN GP20 is a very versatile 6-axis industrial robot for payloads up to 20 kg. It has a reach of 1,802 mm and can achieve very fast cycle times with excellent repeatability.

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.

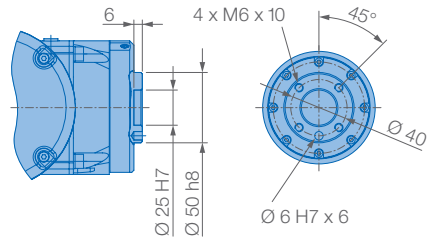
Combined with the proven Teach pendant, the robot can be perfectly integrated in automation environments. With the innovative operating concept of the SmartPendant, it offers a very good entry into industrial automation.

KEY BENEFITS

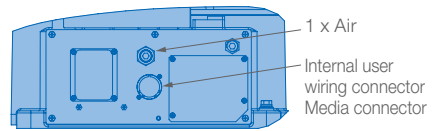
- Slim design
- Versatile - large range of potential applications
- Powerful: 20 kg payload
- Large working range: 1,802 mm
- Stable, low-vibration wrist
- Fast movements due to high axis speeds and acceleration
- Easy commissioning, operation and maintenance



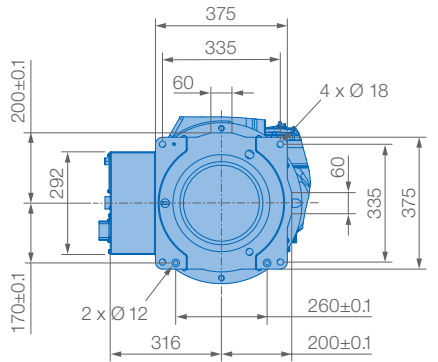
View A



View B

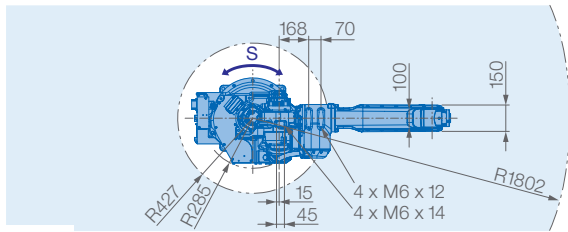


View C

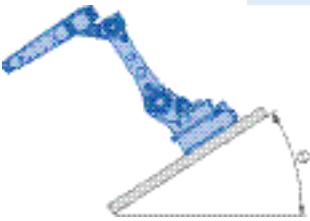
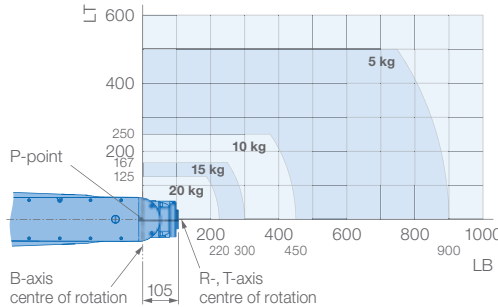


Mounting options: Floor, ceiling, wall, tilt*
 IP Protection: IP54 (body S, L, U), IP67 (wrist)
 * tilt with condition of angle – see table left side

- Prevent interaction of the robot with:**
- Corrosive gases, liquids or explosive gases
 - Exposure to water, oil or dust
 - Excessive electrical noise (plasma)



Allowable wrist load



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

Specifications GP20

Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
					Max. payload [kg]	6
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
B	± 140	420	44	2.3	Weight [kg]	250
T	± 455	720	24.5	1.2	Power supply, average [kVA]	2.0

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