# **YASKAWA**

# 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.

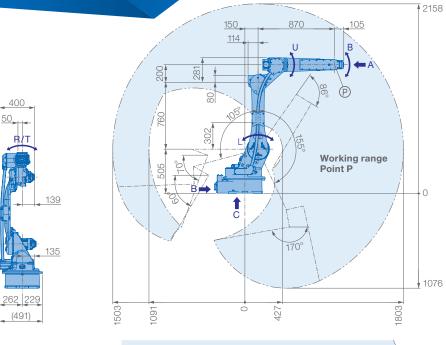
Combined with the proven Teach pendant, the robot can be perfectly integrated in automation environments. With the innovative operating concept of the SmartPendant, it offers a very good entry into industrial automation.

### **KEY BENEFITS**

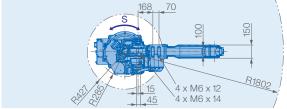
- Slim design
- Versatile large range of potential applications
- Powerful: 20 kg payload
- Large working range: 1,802 mm
- Stable, low-vibration wrist
- Fast movements due to high axis speeds and acceleration
- Easy commissioning, operation and maintenance

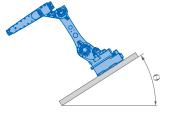


## **MOTOMAN GP20**



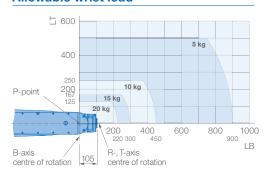




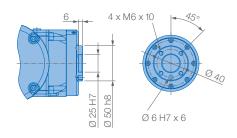


Robot installation angle ⊖ [deg.]	S-axis operating range [deg.]	
$0 \le \Theta \le 30$	±180 max. no limit	
$30 < \Theta \le 35$	±60 max.	
35 < Θ	±30 max.	

### Allowable wrist load



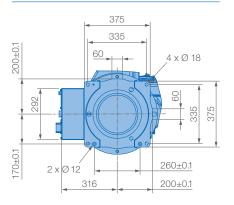
#### View A



#### View B



#### View C



Mounting options: Floor, ceiling, wall, tilt\* IP Protection: IP54 (body S, L, U), IP67 (wrist)

#### Prevent interaction of the robot with:

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

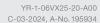
	Specifications GP20							
Axes	Maximum Maximum speed [°] [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6			
				Max. payload [kg]	20			
s	±180	210	-	-	Repeatability [mm]	±0.02		
L	+155/–105	210	-	-	Max. working range R [mm]	1802		
U	+160/–86	265	-	-	Temperature [°C]	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		

# Yaskawa Europe GmbH

Robotics Division Yaskawastraße 1 85391 Allershausen Germany

Tel. +49 (0) 8166 90-0 robotics@yaskawa.eu www.yaskawa.eu







<sup>\*</sup> tilt with condition of angle - see table left side