The 6-axis MOTOMAN GP180 is a versatile, high speed robot offering superior performance for a variety of applications, like material handling, machine and press tending.

Despite of providing a high payload of 180 kg and the wide motion range of 2702 mm, the MOTOMAN GP180 was designed with a width of 625 mm, therefore valuable floor space can be saved.

With the higher axis operation speed and speed reducer rigidity, a special vibration control system was developed. By reducing cycle times, this system realises high increases in productivity.

KEY BENEFITS

- Fast, flexible and powerful
- High payload: 180 kg
- Wide motion range: 2702 mm
- Maximum performance using minimal floor space

www.yaskawa.eu.com
Specifications GP180

### Axes

<table>
<thead>
<tr>
<th>Axes</th>
<th>Maximum motion range [º]</th>
<th>Maximum speed [º/sec.]</th>
<th>Allowable moment [Nm]</th>
<th>Allowable moment of inertia [kg · m²]</th>
<th>Controlled axes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>±180</td>
<td>125</td>
<td>–</td>
<td>–</td>
<td>6</td>
</tr>
<tr>
<td>L</td>
<td>+76/–60</td>
<td>115</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>+90/–86</td>
<td>125</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>±360</td>
<td>182</td>
<td>1000</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>±130</td>
<td>175</td>
<td>1000</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>±360</td>
<td>265</td>
<td>618</td>
<td>46.3</td>
<td></td>
</tr>
</tbody>
</table>

### Max. payload [kg]

- S: ±180
- L: +76/–60
- U: +90/–86
- R: ±360
- B: ±130
- T: ±360

- Max. payload [kg]: 180

### Repeatability [mm]

- ±0.05

### Max. working range R [mm]

- ±360

### Temperature [ºC]

- D to +45

### Humidity [%]

- 20 – 80

### Weight [kg]

- 1020

### Power supply, average [KVA]

- 5.0

---

**Robotics Division**

Yaskawa Europa GmbH

Yaskawastraße 1
85391 Allershausen
Germany

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

**YR-1-06VX180-A00, YR-1-06VX180-C00**

C-10-2020, A-No. 195940

---

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