**Technical data**

- **Maximum reach**: 3100 mm
- **Maximum payload**: 210 kg
- **Rated payload**: 120 kg
- **Rated supplementary load, rotating column / link arm / arm**: 0 kg / 0 kg / 50 kg
- **Pose repeatability (ISO 9283)**: ± 0.05 mm
- **Number of axes**: 6
- **Mounting position**: Floor
- **Footprint**: 754 mm x 754 mm
- **Weight**: approx. 1105 kg

**Axis data**

<table>
<thead>
<tr>
<th>Axis</th>
<th>Motion range</th>
<th>Speed with rated payload</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>±185 °</td>
<td>120 °/s</td>
</tr>
<tr>
<td>A2</td>
<td>-140 ° / -5 °</td>
<td>115 °/s</td>
</tr>
<tr>
<td>A3</td>
<td>-120 ° / 168 °</td>
<td>120 °/s</td>
</tr>
<tr>
<td>A4</td>
<td>±350 °</td>
<td>190 °/s</td>
</tr>
<tr>
<td>A5</td>
<td>±125 °</td>
<td>180 °/s</td>
</tr>
<tr>
<td>A6</td>
<td>±350 °</td>
<td>260 °/s</td>
</tr>
</tbody>
</table>

**Operating conditions**

- **Ambient temperature during operation**: 0 °C to 55 °C (273 K to 328 K)

**Protection rating**

- **Protection rating (IEC 60529)**: IP65
- **Protection rating, in-line wrist (IEC 60529)**: IP65 / IP67

**Controller**

- **Controller**: KR C4

The KR 120 R3100-2 is designed for a rated payload of 120 kg in order to optimize the dynamic performance of the robot. With reduced load center distances, higher loads up to the maximum payload may be used. The specific load case must be verified using KUKA.Load. For further consultation, please contact KUKA Support.