



Standard Specifications

BTP210L-A

1st ed. 26-Oct-21

Kawasaki Heavy Industries, Ltd.
Robot Business Division

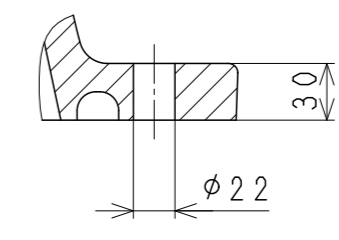
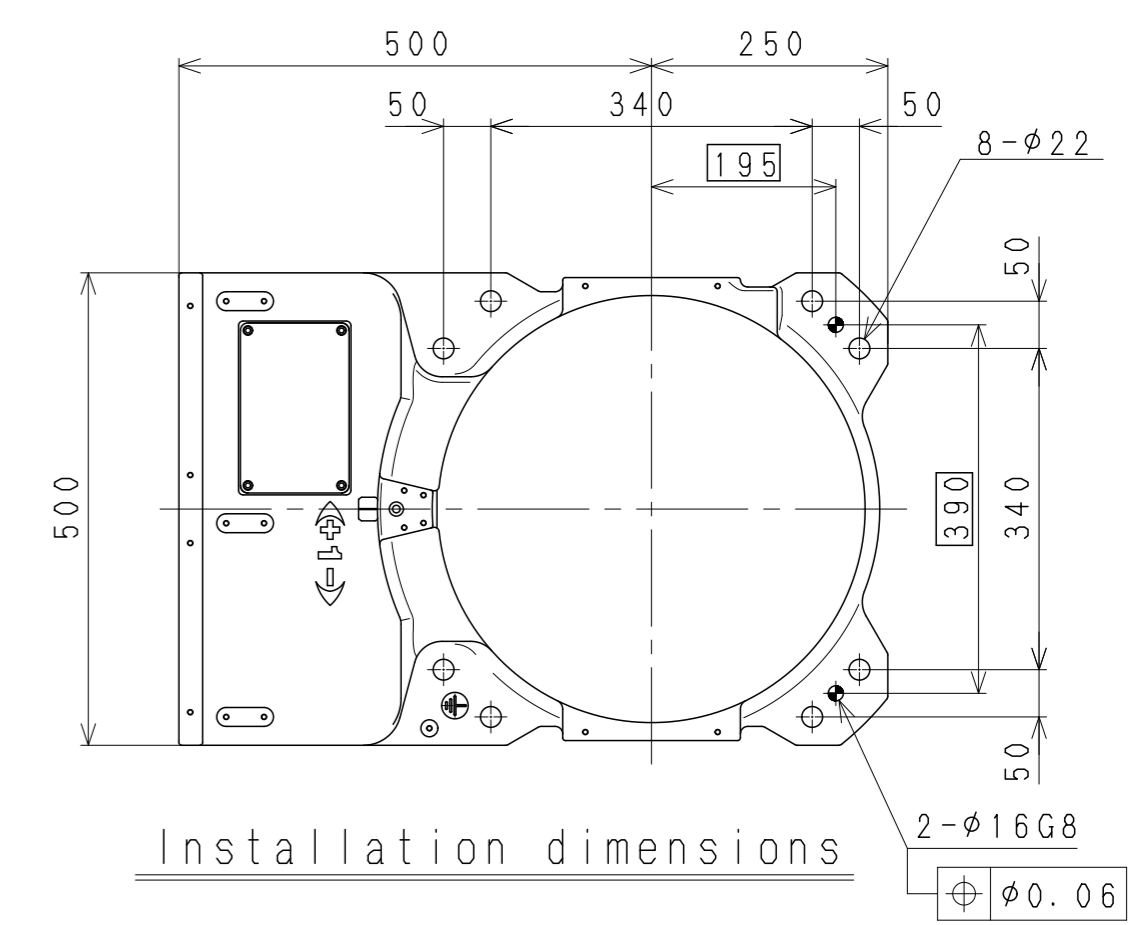
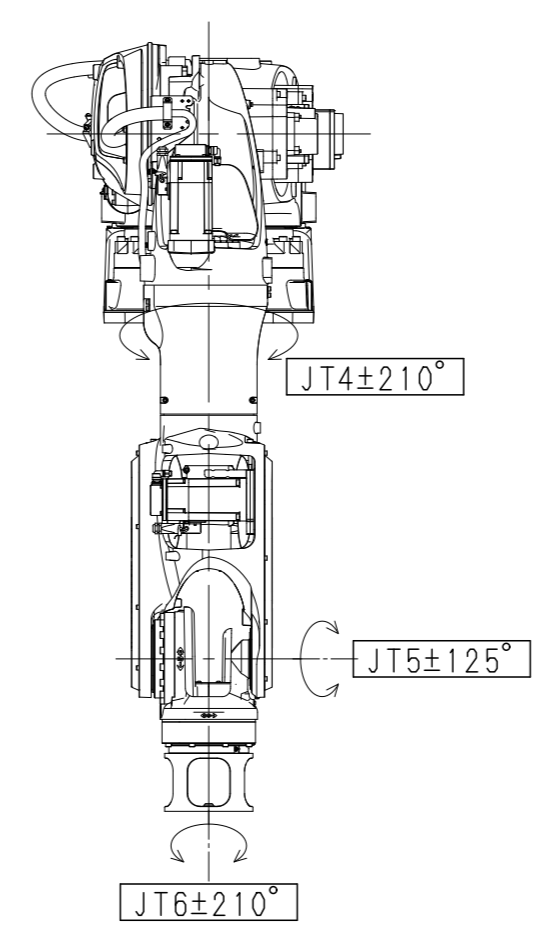
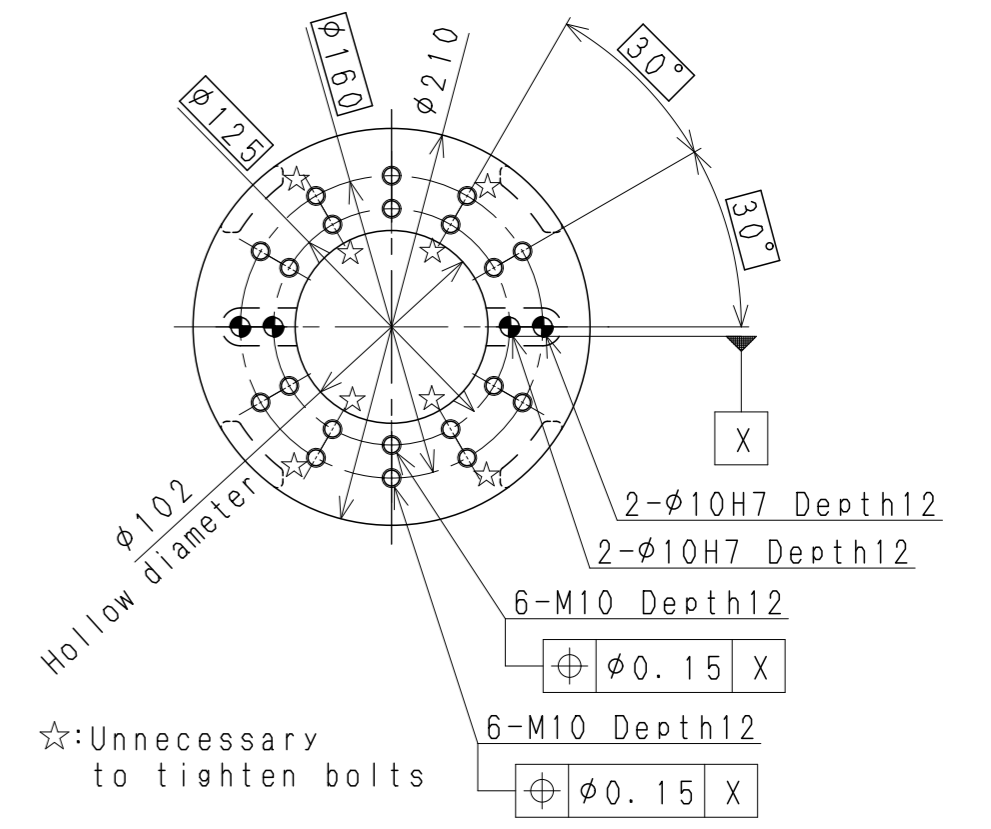
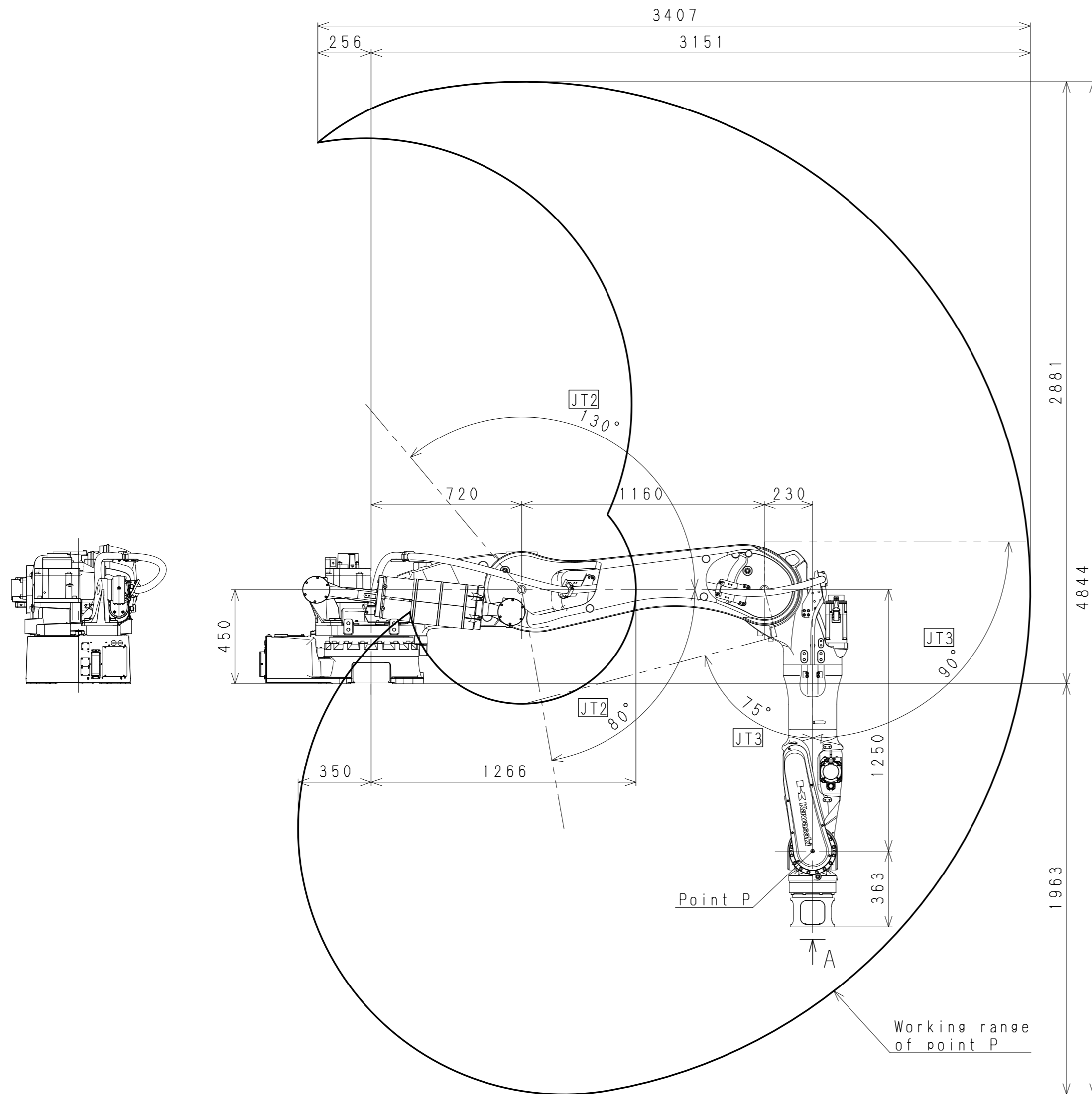
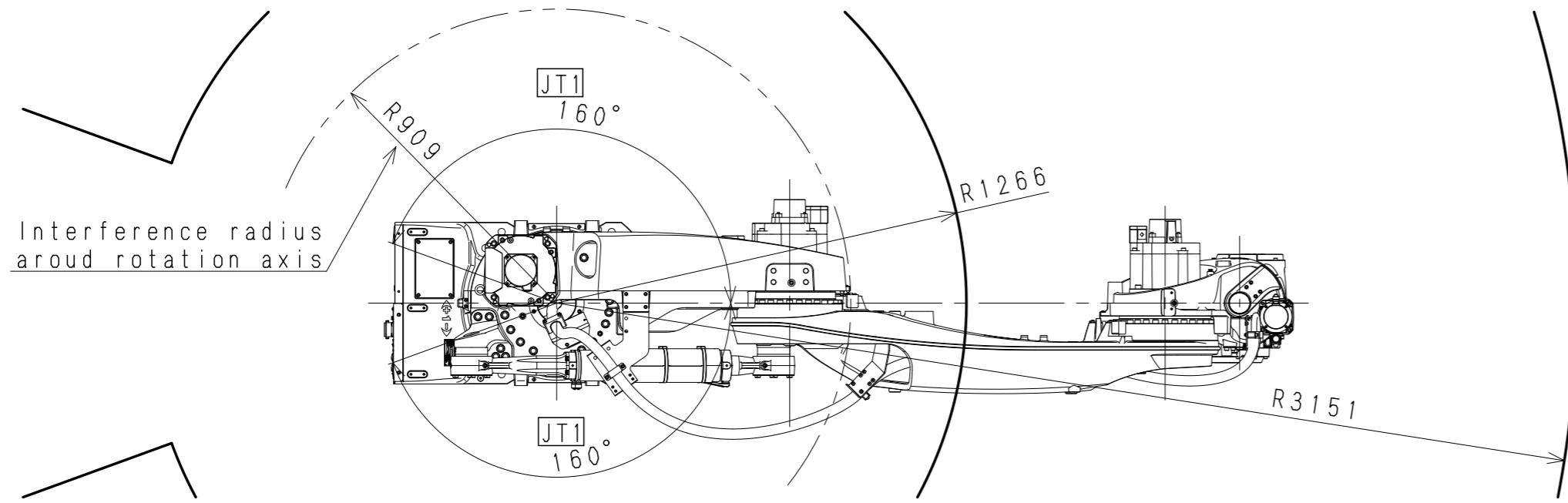
Specification number : 90151-0371DEA

Materials and specifications are subject to change without notice.

Robot specifications

| 1. Model | BTP210L-A | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|---------------------------------|----------------|--------------|--------------------|--------------------|----------|-----------------------|------------------|----------------|-----------------------|-------------------|---------------|-----------------------|--------------------|-------|--------|------------------|-------|--------|-------------------|-------|--------|
| 2. Type | Articulated robot | | | | | | | | | | | | | | | | | | | | | | |
| 3. Degree of freedom | 6 axes (Option 7 axes) | | | | | | | | | | | | | | | | | | | | | | |
| 4. Max. payload | 210 kg | | | | | | | | | | | | | | | | | | | | | | |
| 5. Max. reach | 3,151 mm | | | | | | | | | | | | | | | | | | | | | | |
| 6. Position repeatability | ±0.08 mm (wrist flange surface) conforms to ISO 9283 | | | | | | | | | | | | | | | | | | | | | | |
| 7. Axis specification | <table border="1"> <thead> <tr> <th>Operating axis</th> <th>Motion range</th> <th>Max. speed</th> </tr> </thead> <tbody> <tr> <td>Arm rotation (JT1)</td> <td>±160°</td> <td>115°/s</td> </tr> <tr> <td>Arm out-in (JT2)</td> <td>+ 80° - - 130°</td> <td>90°/s</td> </tr> <tr> <td>Arm up-down (JT3)</td> <td>+ 90° - - 75°</td> <td>115°/s</td> </tr> <tr> <td>Wrist swivel (JT4)</td> <td>±210°</td> <td>140°/s</td> </tr> <tr> <td>Wrist bend (JT5)</td> <td>±125°</td> <td>135°/s</td> </tr> <tr> <td>Wrist twist (JT6)</td> <td>±210°</td> <td>240°/s</td> </tr> </tbody> </table> | | Operating axis | Motion range | Max. speed | Arm rotation (JT1) | ±160° | 115°/s | Arm out-in (JT2) | + 80° - - 130° | 90°/s | Arm up-down (JT3) | + 90° - - 75° | 115°/s | Wrist swivel (JT4) | ±210° | 140°/s | Wrist bend (JT5) | ±125° | 135°/s | Wrist twist (JT6) | ±210° | 240°/s |
| Operating axis | Motion range | Max. speed | | | | | | | | | | | | | | | | | | | | | |
| Arm rotation (JT1) | ±160° | 115°/s | | | | | | | | | | | | | | | | | | | | | |
| Arm out-in (JT2) | + 80° - - 130° | 90°/s | | | | | | | | | | | | | | | | | | | | | |
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| Wrist swivel (JT4) | ±210° | 140°/s | | | | | | | | | | | | | | | | | | | | | |
| Wrist bend (JT5) | ±125° | 135°/s | | | | | | | | | | | | | | | | | | | | | |
| Wrist twist (JT6) | ±210° | 240°/s | | | | | | | | | | | | | | | | | | | | | |
| 8. Load capacity of wrist | <table border="1"> <thead> <tr> <th></th> <th>Max. torque</th> <th>Moment of inertia*</th> </tr> </thead> <tbody> <tr> <td>JT4</td> <td>1380 N·m</td> <td>205 kg·m²</td> </tr> <tr> <td>JT5</td> <td>1380 N·m</td> <td>205 kg·m²</td> </tr> <tr> <td>JT6</td> <td>600 N·m</td> <td>160 kg·m²</td> </tr> </tbody> </table> <p>Note* Each value in this table shows allowable moment of inertia of JT4/JT5/JT6 when max. allowed torque is applied to each axis. If more detailed data is required for your application, please contact Kawasaki.</p> | | | Max. torque | Moment of inertia* | JT4 | 1380 N·m | 205 kg·m ² | JT5 | 1380 N·m | 205 kg·m ² | JT6 | 600 N·m | 160 kg·m ² | | | | | | | | | |
| | Max. torque | Moment of inertia* | | | | | | | | | | | | | | | | | | | | | |
| JT4 | 1380 N·m | 205 kg·m ² | | | | | | | | | | | | | | | | | | | | | |
| JT5 | 1380 N·m | 205 kg·m ² | | | | | | | | | | | | | | | | | | | | | |
| JT6 | 600 N·m | 160 kg·m ² | | | | | | | | | | | | | | | | | | | | | |
| 9. Mass | 1030 kg (without options) | | | | | | | | | | | | | | | | | | | | | | |
| 10. Mounting | Shelf mounting | | | | | | | | | | | | | | | | | | | | | | |
| 11. Installation Environment | Ambient Temperature: 0 - 45 °C | | | | | | | | | | | | | | | | | | | | | | |
| | Relative Humidity: 35 - 85 % (with no dew condensation) | | | | | | | | | | | | | | | | | | | | | | |
| 12. Color | Munsell 10GY9/1 equivalent | | | | | | | | | | | | | | | | | | | | | | |
| 13. Degree of protection | Wrist: IP67 equivalent, Arm: IP54 equivalent | | | | | | | | | | | | | | | | | | | | | | |
| 14. Dressing | Cable length between flange and tool is 1.5m. Consult Kawasaki when non-standard dressing will be applied. | | | | | | | | | | | | | | | | | | | | | | |
| 15. Options | Mechanical stopper | Adjustable stoppers JT1/JT2/JT3 | | | | | | | | | | | | | | | | | | | | | |
| | Adapter bracket | between flange and tool | | | | | | | | | | | | | | | | | | | | | |
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Consult Kawasaki about maintenance parts and spare parts.



BTP210L
WORKING RANGE