



# Standard Specifications

## RS080N-B

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2nd ed. 25-May-18  
3rd ed. 13-Oct-20  
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Kawasaki Heavy Industries, Ltd.  
Robot Business Division

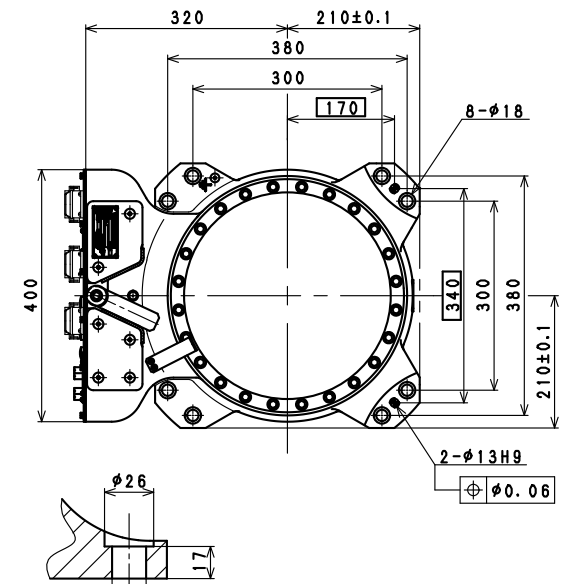
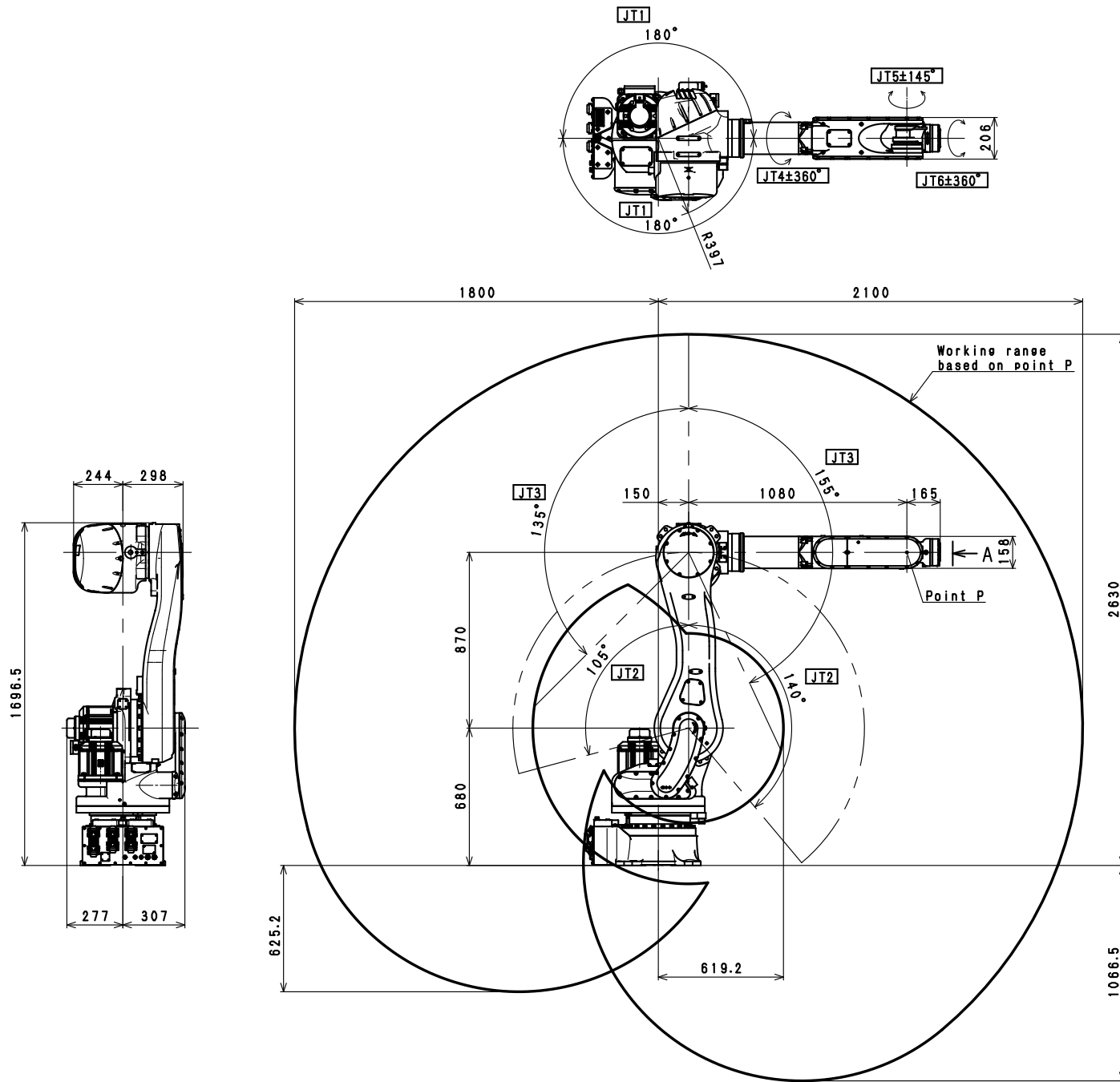
Specification number : 90151-0054DED

Materials and specifications are subject to change without notice.

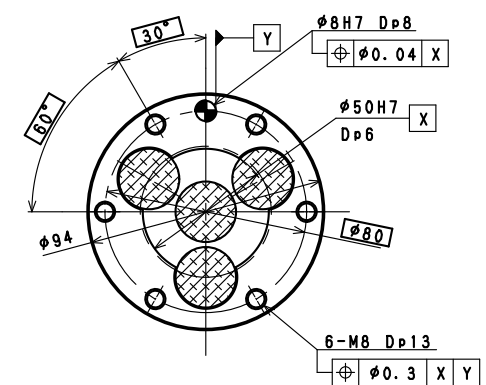
## Robot specifications

1. Model	RS080N-B																						
2. Type	Articulated robot																						
3. Degree of freedom	6 axes																						
4. Max. payload	80 kg																						
5. Max. reach	2,100 mm																						
6. Position repeatability	±0.06 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>±180°</td> <td>180°/s</td> </tr> <tr> <td>Arm out-in (JT2)</td> <td>+140° - -105°</td> <td>180°/s</td> </tr> <tr> <td>Arm up-down (JT3)</td> <td>+135° - -155°</td> <td>160°/s</td> </tr> <tr> <td>Wrist swivel (JT4)</td> <td>±360°</td> <td>185°/s</td> </tr> <tr> <td>Wrist bend (JT5)</td> <td>±145°</td> <td>165°/s</td> </tr> <tr> <td>Wrist twist (JT6)</td> <td>±360°</td> <td>280°/s</td> </tr> </tbody> </table>		Operating axis	Motion range	Max. speed	Arm rotation (JT1)	±180°	180°/s	Arm out-in (JT2)	+140° - -105°	180°/s	Arm up-down (JT3)	+135° - -155°	160°/s	Wrist swivel (JT4)	±360°	185°/s	Wrist bend (JT5)	±145°	165°/s	Wrist twist (JT6)	±360°	280°/s
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9. Mass	555 kg (without options)																						
10. Mounting	Floor or Ceiling 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: IP65 equivalent																						
14. Cleanliness	Class 6 equivalent Not a guaranteed value																						
15. Built-in utilities	Pneumatic piping (φ10 × 2 lines)																						
16. Options	Mounting	Wall mounting																					
	Degree of protection	Arm: IP67 equivalent																					
	Sensor harness	12 circuits, wired inside robot arm																					
	Optional harness	7 pairs, wired inside robot arm																					
	Solenoid valve	Double solenoid / Single solenoid valves (4 units max.)																					
	Air cleaning	Filter, Regulator, Mist separator																					
	Mechanical stopper	Adjustable stoppers JT1/JT2/JT3																					
	Color																						
	Installation stand	300 mm, 600 mm height																					
	Base plate	750 mm × 750 mm																					

Consult Kawasaki about maintenance parts and spare parts.



Installation Dimensions



VIEW A

RS080N  
WORKING RANGE