



Standard Specifications

BA013N-A

1st ed. 03-Mar-22

Kawasaki Heavy Industries, Ltd.
Robot Business Division

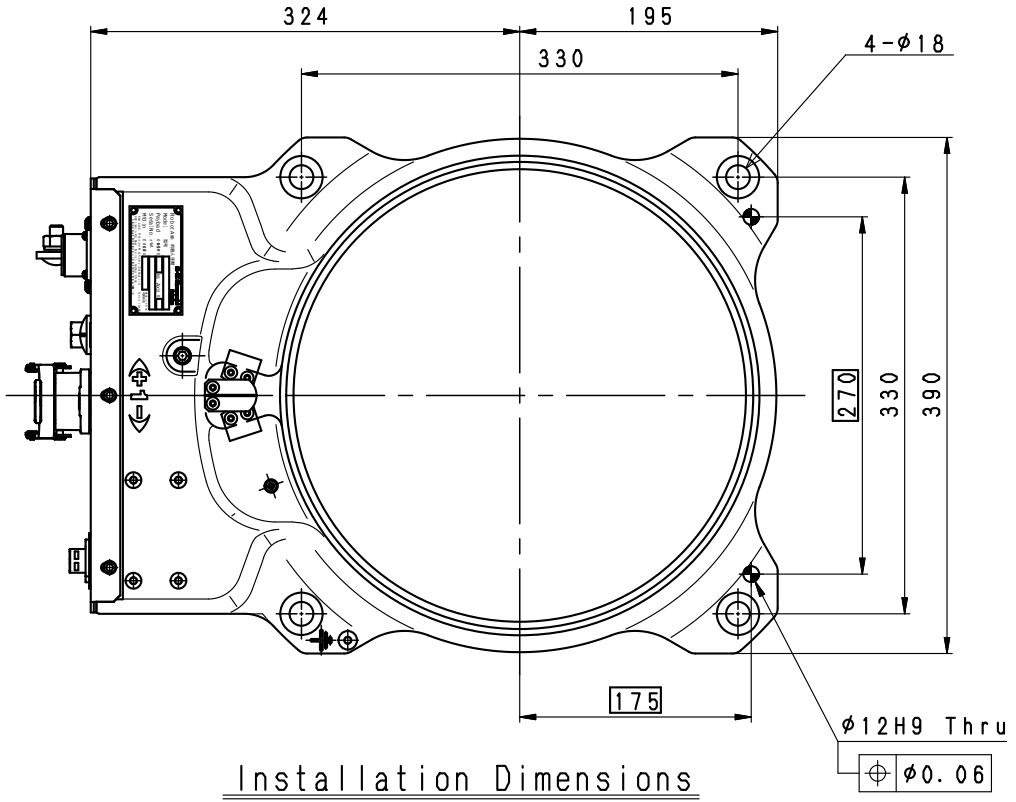
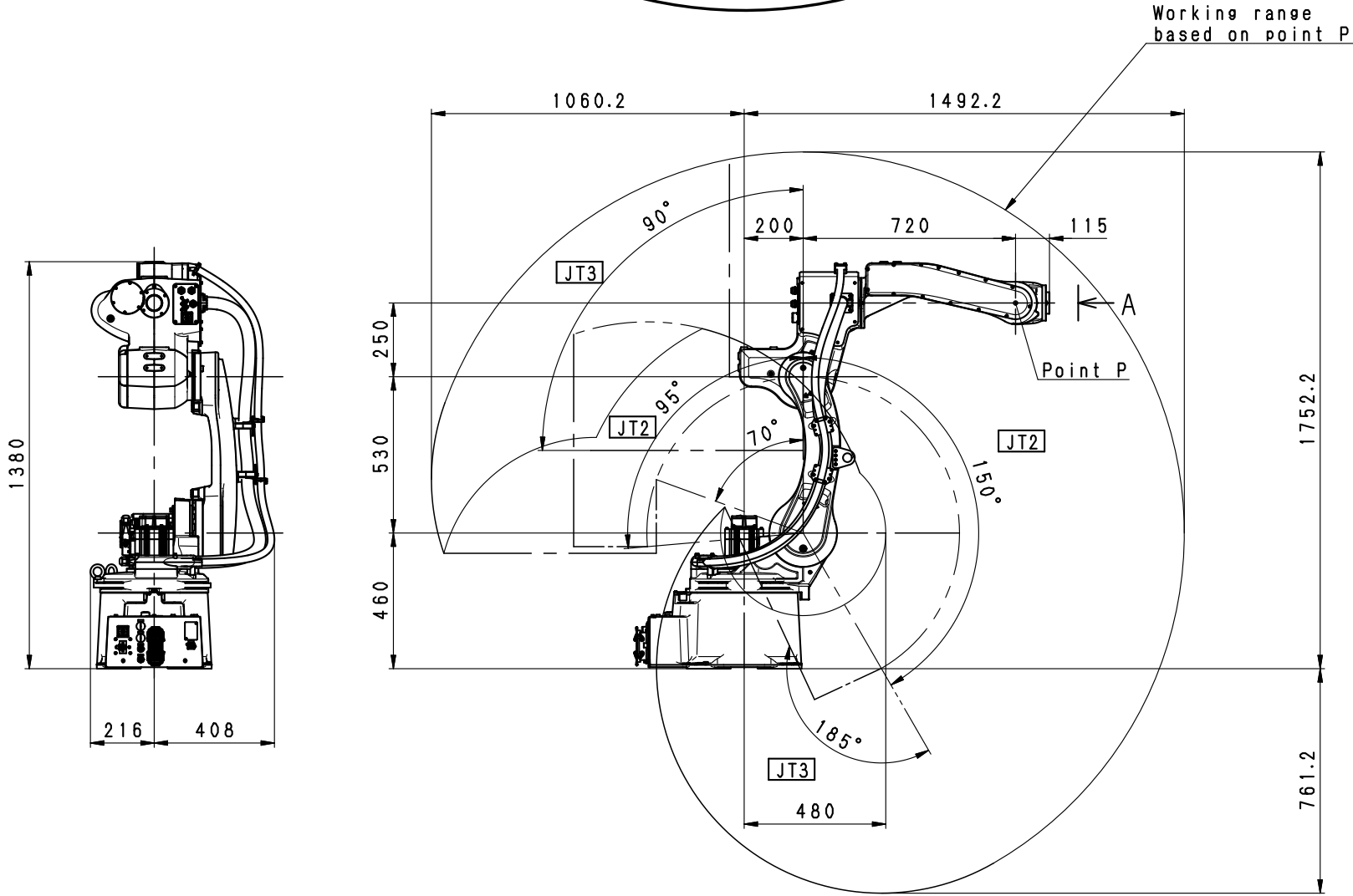
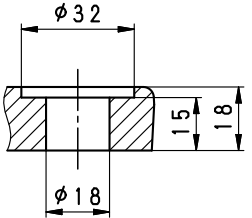
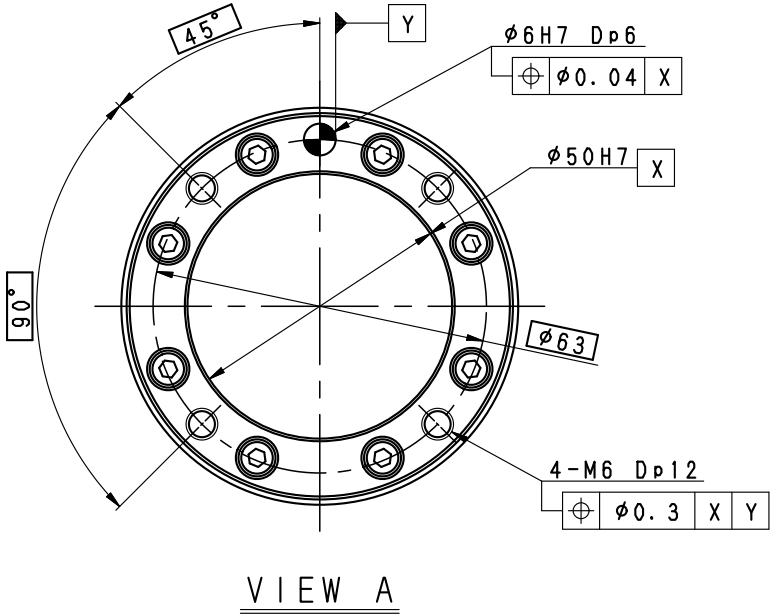
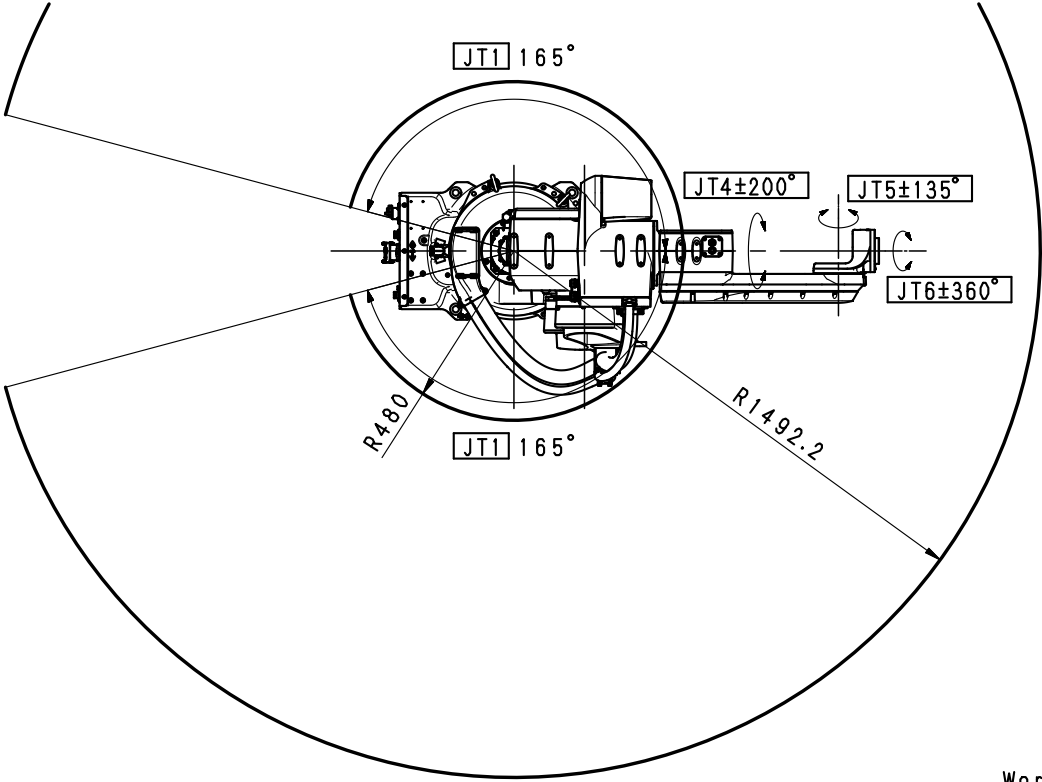
Specification number : 90151-0375DEA

Materials and specifications are subject to change without notice.

Robot specifications

1. Model	BA013N-A																						
2. Type	Articulated robot																						
3. Degree of freedom	6 axes																						
4. Max. payload	13 kg																						
5. Max. reach	1,492 mm																						
6. Position repeatability	±0.04 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>±165 °</td><td>265 ° /s</td></tr> <tr> <td>Arm out-in (JT2)</td><td>+ 150 ° - - 95 °</td><td>250 ° /s</td></tr> <tr> <td>Arm up-down (JT3)</td><td>+ 90 ° - - 185 °</td><td>265 ° /s</td></tr> <tr> <td>Wrist swivel (JT4)</td><td>±200 °</td><td>470 ° /s</td></tr> <tr> <td>Wrist bend (JT5)</td><td>±135 °</td><td>475 ° /s</td></tr> <tr> <td>Wrist twist (JT6)</td><td>±360 °</td><td>730 ° /s</td></tr> </tbody> </table>		Operating axis	Motion range	Max. speed	Arm rotation (JT1)	±165 °	265 ° /s	Arm out-in (JT2)	+ 150 ° - - 95 °	250 ° /s	Arm up-down (JT3)	+ 90 ° - - 185 °	265 ° /s	Wrist swivel (JT4)	±200 °	470 ° /s	Wrist bend (JT5)	±135 °	475 ° /s	Wrist twist (JT6)	±360 °	730 ° /s
Operating axis	Motion range	Max. speed																					
Arm rotation (JT1)	±165 °	265 ° /s																					
Arm out-in (JT2)	+ 150 ° - - 95 °	250 ° /s																					
Arm up-down (JT3)	+ 90 ° - - 185 °	265 ° /s																					
Wrist swivel (JT4)	±200 °	470 ° /s																					
Wrist bend (JT5)	±135 °	475 ° /s																					
Wrist twist (JT6)	±360 °	730 ° /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>26 N•m</td><td>0.9 kg•m²</td></tr> <tr> <td>JT5</td><td>26 N•m</td><td>0.9 kg•m²</td></tr> <tr> <td>JT6</td><td>10 N•m</td><td>0.3 kg•m²</td></tr> </tbody> </table> 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.			Max. torque	Moment of inertia*	JT4	26 N•m	0.9 kg•m ²	JT5	26 N•m	0.9 kg•m ²	JT6	10 N•m	0.3 kg•m ²									
	Max. torque	Moment of inertia*																					
JT4	26 N•m	0.9 kg•m ²																					
JT5	26 N•m	0.9 kg•m ²																					
JT6	10 N•m	0.3 kg•m ²																					
9. Mass	260 kg (without options)																						
10. Mounting	Floor 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																						
14. Built-in utilities	Pneumatic piping (φ8 × 1 line) , Gas piping (φ8 × 1 line) Internal welding cable (80sq , from BASE(JT1) to JT3)																						
15. Options	Sensor harness	12 circuits, wired inside robot arm																					
	Solenoid valve	Double solenoid / Single solenoid valves (4 units max.)																					
	Mechanical stopper	Adjustable stopper JT1																					
	Installation stand	300 mm, 600 mm height																					
	Base plate	750 mm × 750 mm																					

Consult Kawasaki about maintenance parts and spare parts.



BA013N-A
WORKING RANGE