



Standard Specifications

BX300L-B00x

BX300L-E00x

1st ed. 17-Feb-15

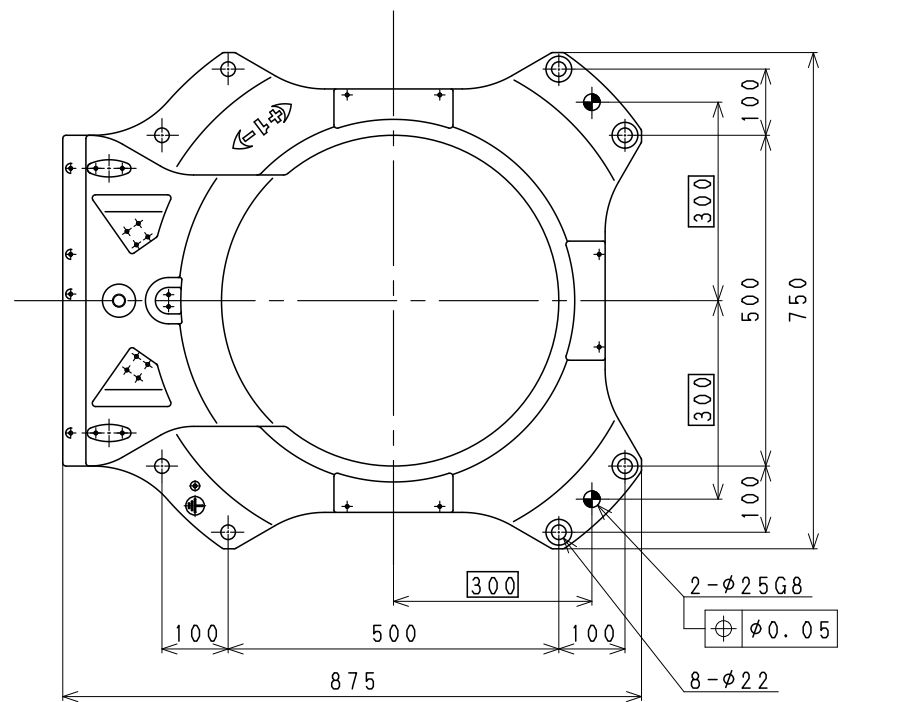
4rd ed. 03-Apr-24

Kawasaki Heavy Industries, Ltd.
Robot Business Division

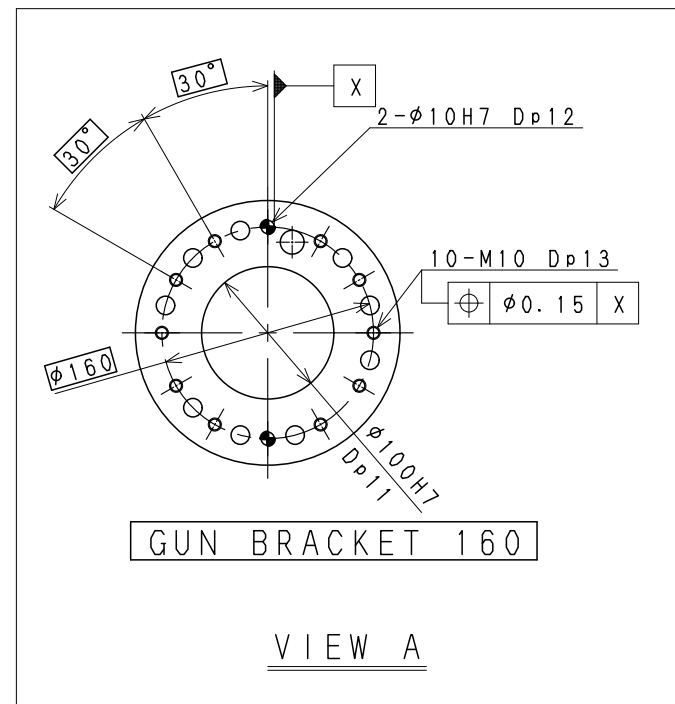
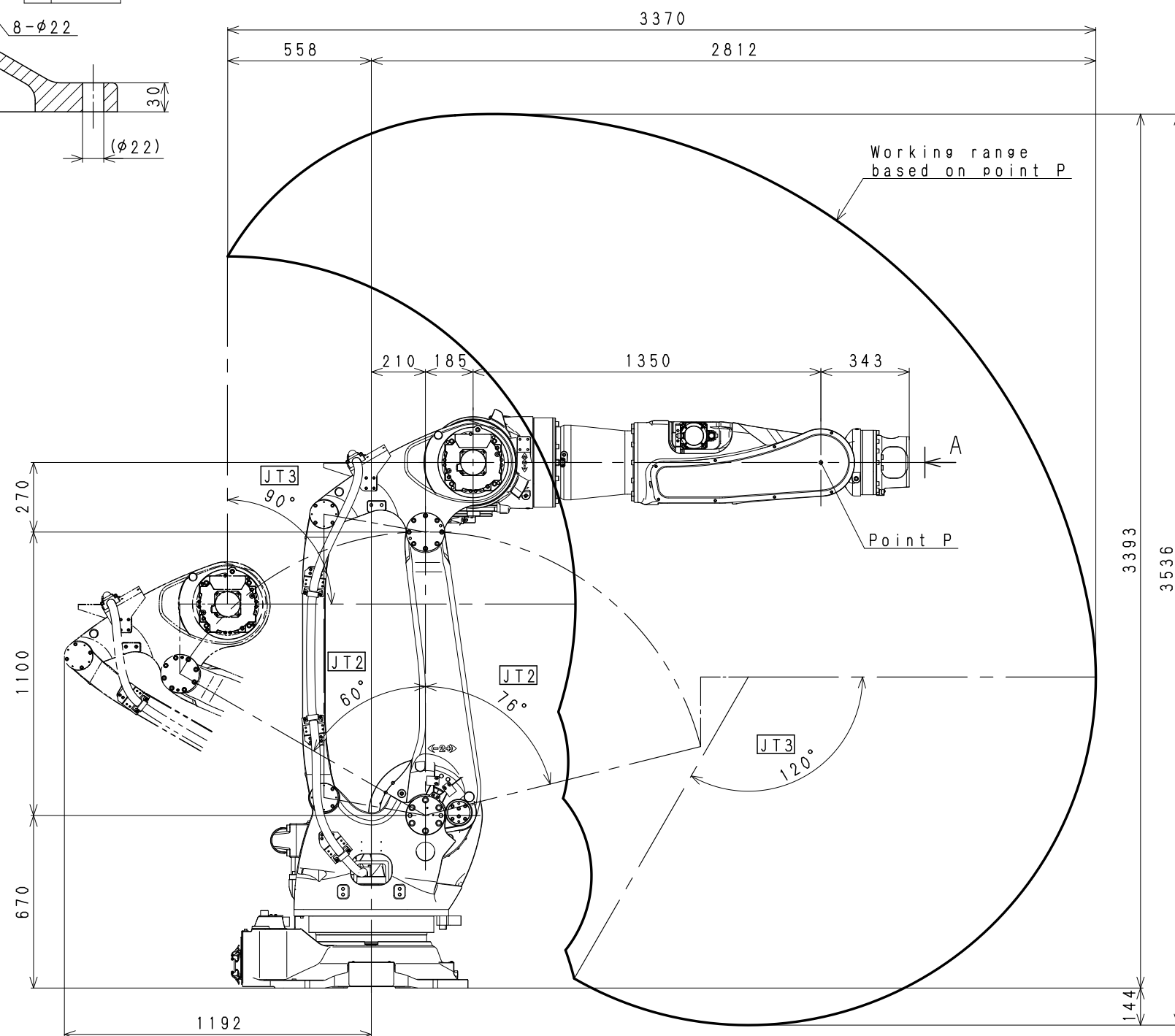
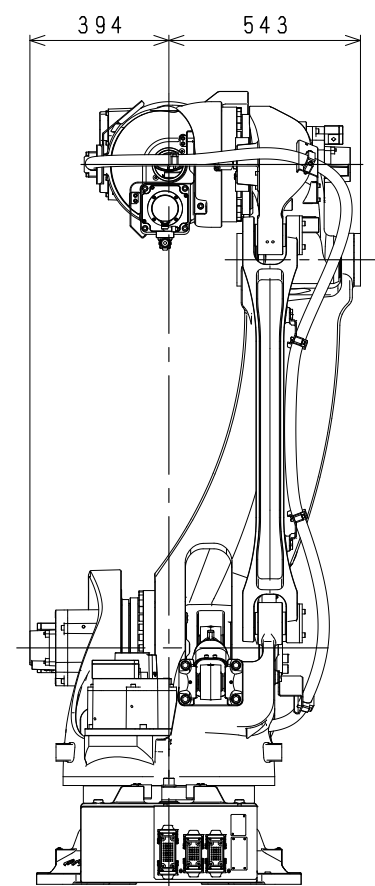
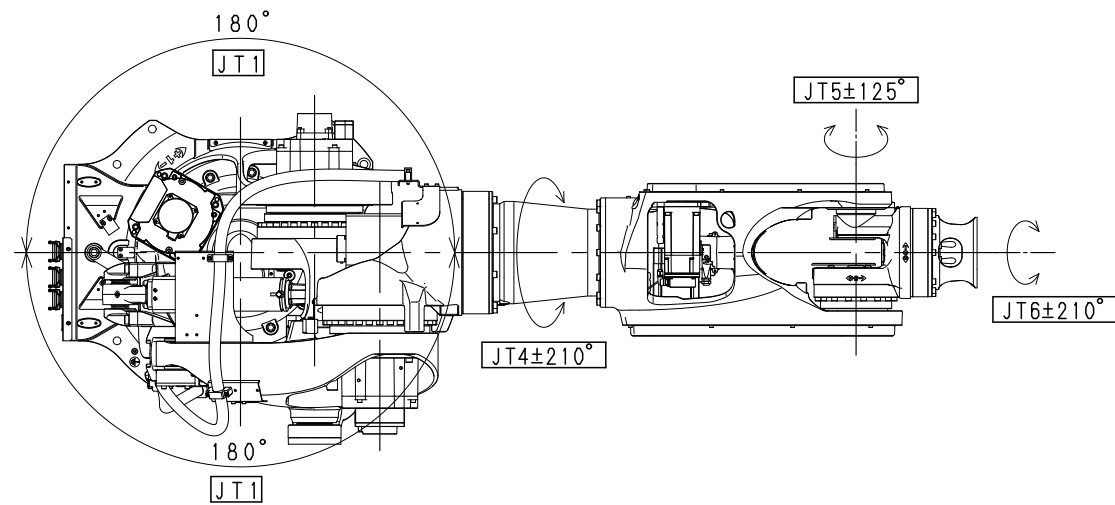
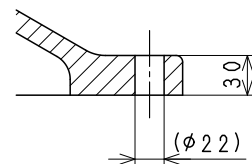
Specification number : 90151-0029DED

Robot specifications

1. Model	BX300L-B, BX300L-E																							
2. Type	Articulated robot																							
3. Degree of freedom	6 axes (Option 7 axes)																							
4. Max. payload	300 kg																							
5. Max. reach	2,812 mm																							
6. Position repeatability	±0.07 mm (wrist flange surface) conforms to ISO 9283																							
7. Axis specification	<table><tr><th>Operating axis</th><th>Motion range</th><th>Max. speed</th></tr><tr><td>Arm rotation (JT1)</td><td>±180 °</td><td>125 °/s</td></tr><tr><td>Arm out-in (JT2)</td><td>+ 76 ° - - 60 °</td><td>102 °/s</td></tr><tr><td>Arm up-down (JT3)</td><td>+ 90 ° - - 120 °</td><td>85 °/s</td></tr><tr><td>Wrist swivel (JT4)</td><td>±210 °</td><td>105 °/s</td></tr><tr><td>Wrist bend (JT5)</td><td>±125 °</td><td>110 °/s</td></tr><tr><td>Wrist twist (JT6)</td><td>±210 °</td><td>180 °/s</td></tr></table>			Operating axis	Motion range	Max. speed	Arm rotation (JT1)	±180 °	125 °/s	Arm out-in (JT2)	+ 76 ° - - 60 °	102 °/s	Arm up-down (JT3)	+ 90 ° - - 120 °	85 °/s	Wrist swivel (JT4)	±210 °	105 °/s	Wrist bend (JT5)	±125 °	110 °/s	Wrist twist (JT6)	±210 °	180 °/s
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8. Load capacity of wrist	<table><tr><td></td><td>Max. torque</td><td>Moment of inertia*</td></tr><tr><td>JT4</td><td>2,300 N•m</td><td>240 kg•m²</td></tr><tr><td>JT5</td><td>2,300 N•m</td><td>240 kg•m²</td></tr><tr><td>JT6</td><td>1,000 N•m</td><td>200 kg•m²</td></tr></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	2,300 N•m	240 kg•m ²	JT5	2,300 N•m	240 kg•m ²	JT6	1,000 N•m	200 kg•m ²									
	Max. torque	Moment of inertia*																						
JT4	2,300 N•m	240 kg•m ²																						
JT5	2,300 N•m	240 kg•m ²																						
JT6	1,000 N•m	200 kg•m ²																						
9. Mass	1,460 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, Arm: IP54 equivalent																							
14. Built-in utilities	-																							
15. Options																								
Mounting	-																							
Degree of protection	-																							
Option harness	Type C0																							
	-																							
	Type E0(NPN/PNP)																							
	Type H0(NPN/PNP)																							
Solenoid valve	Double solenoid / Single solenoid valves (3 units max.)																							
Air cleaning	Filter, Regulator, Mist separator																							
Mechanical stopper	Adjustable stopper JT1/JT2/JT3																							
Adapter plate	-																							
Installation stand	-																							
Transport JIG	Fork pocket																							
Base plate	-																							



Installation Dimensions



BX250L/300L
WORKING RANGE