



## Standard Specifications

MC004V-B00x

MC004V-B01x

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Kawasaki Heavy Industries, Ltd.  
Robot Business Division

Specification number : 90151-0353DEB

Materials and specifications are subject to change without notice.

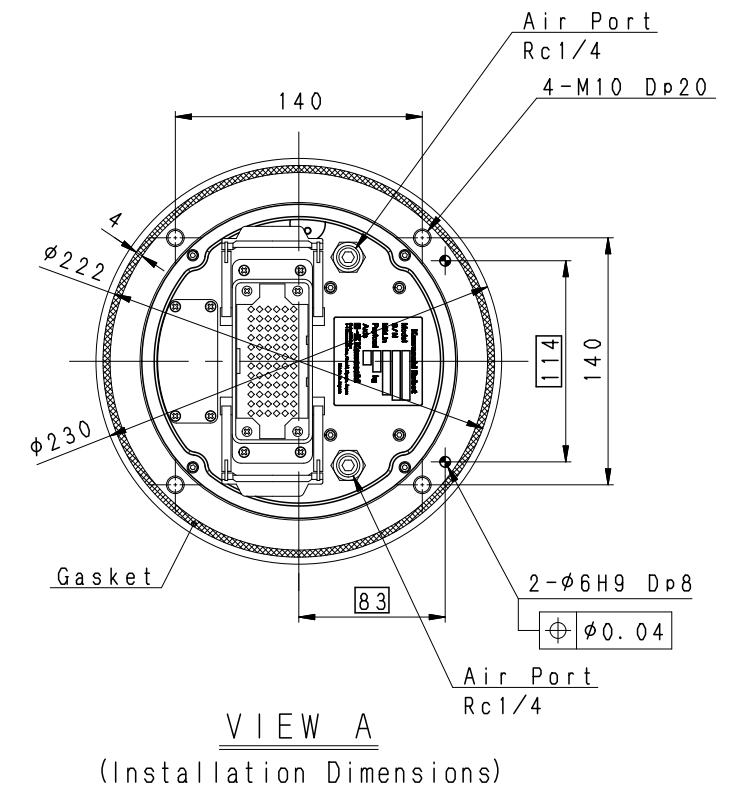
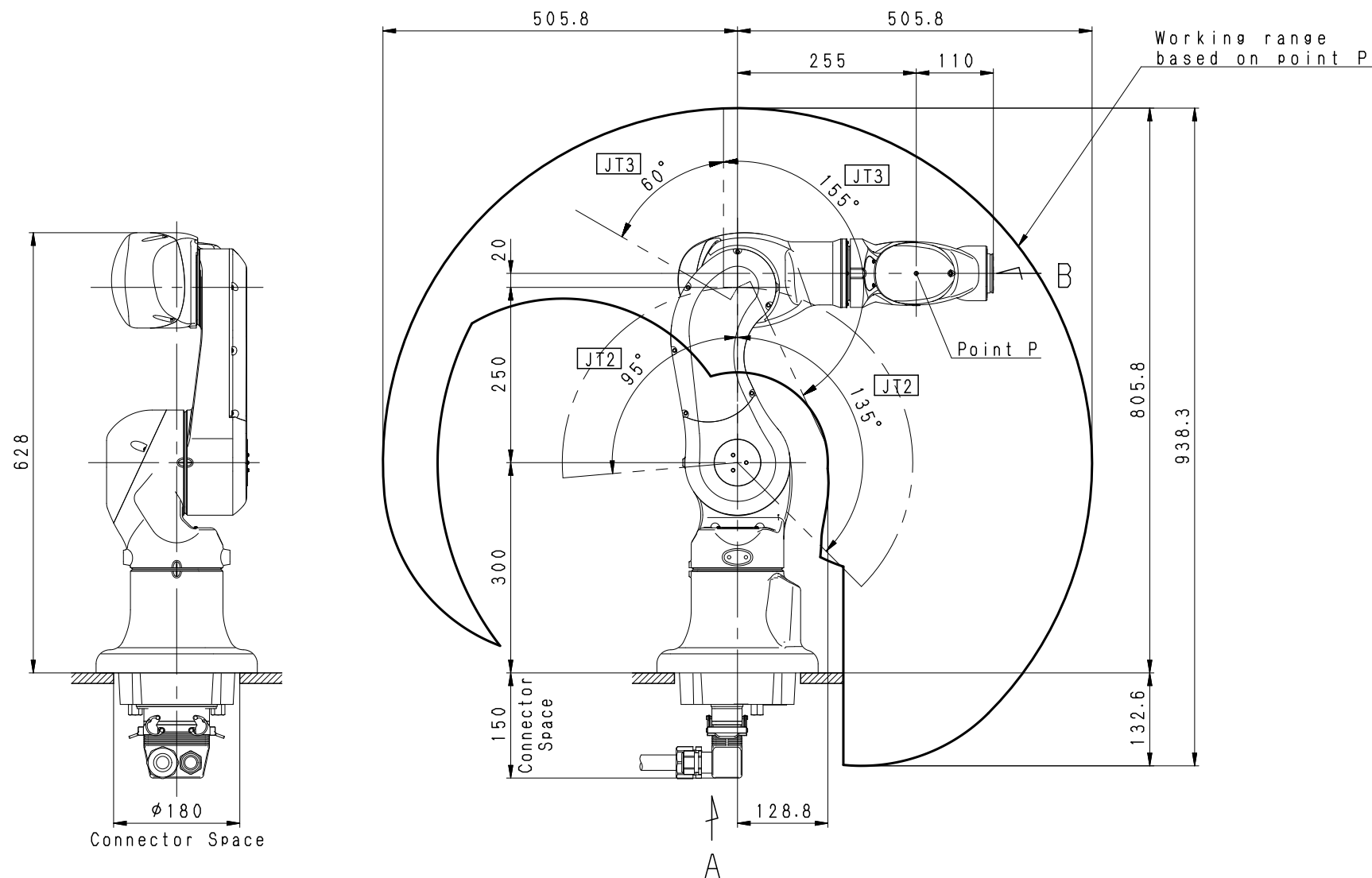
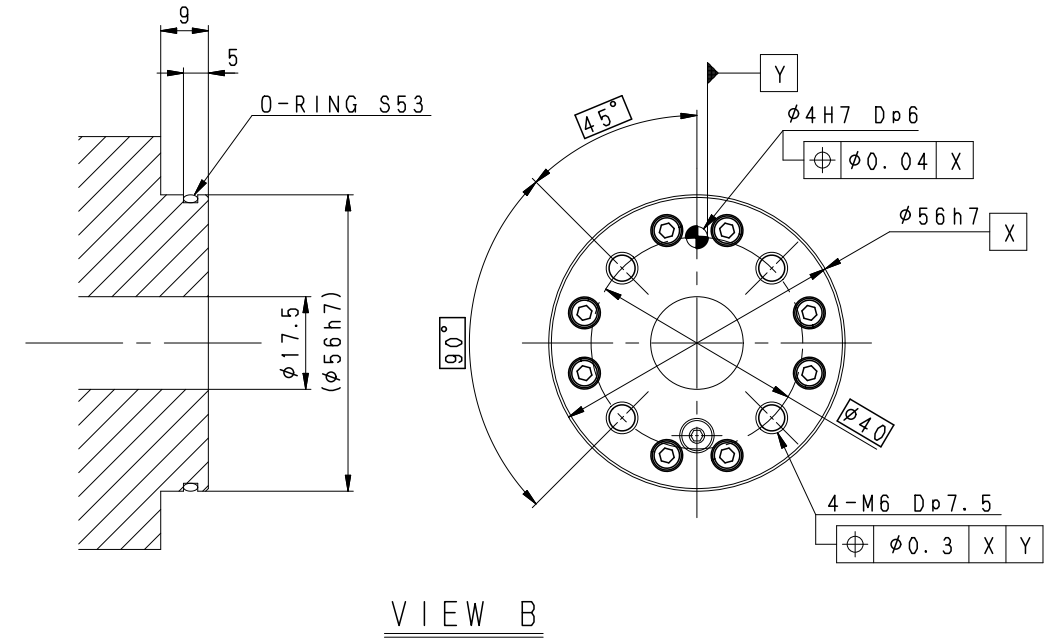
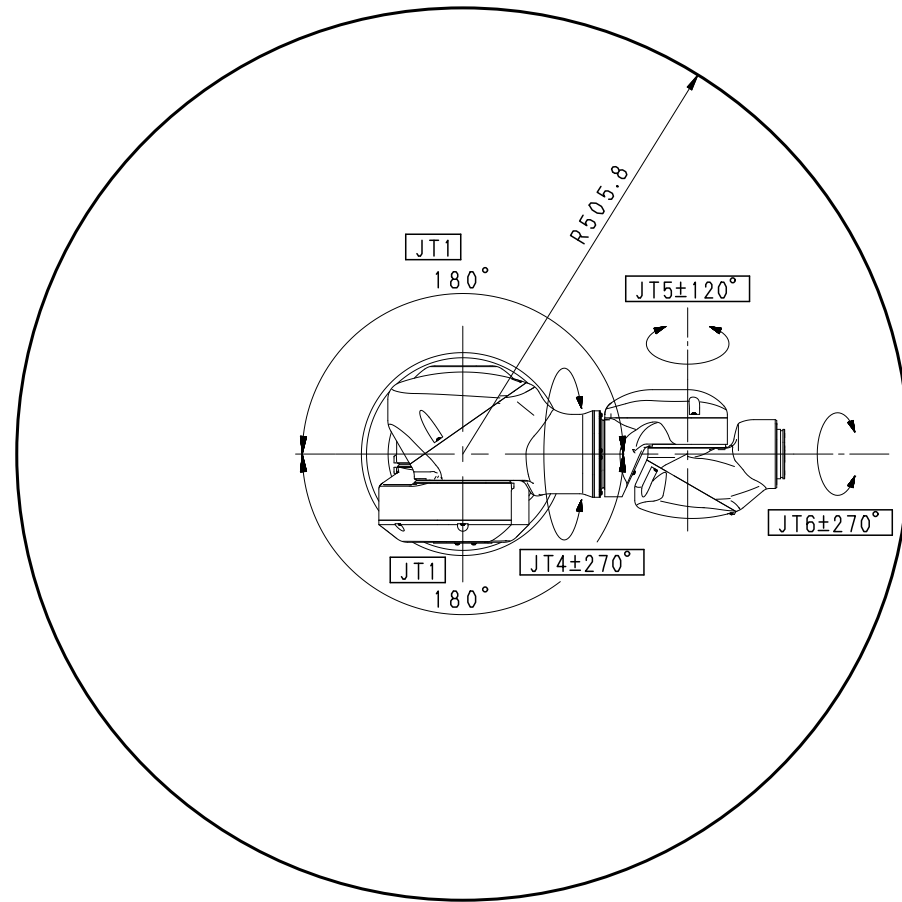
## Robot specifications

1. Model	MC004V-Bxxx																						
	B00x	: Air tool specifications																					
	B01x	: Servo tool specifications																					
2. Type	Articulated robot																						
3. Degree of freedom	6 axes (option 8 axes <sup>*1</sup> )																						
4. Max. payload	4 kg																						
5. Max. reach	505.8 mm																						
6. Position repeatability	±0.028 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>200°/s</td> </tr> <tr> <td>Arm out-in (JT2)</td> <td>+ 135° - - 95°</td> <td>180°/s</td> </tr> <tr> <td>Arm up-down (JT3)</td> <td>+ 60° - - 155°</td> <td>225°/s</td> </tr> <tr> <td>Wrist swivel (JT4)</td> <td>±270°</td> <td>700°/s</td> </tr> <tr> <td>Wrist bend (JT5)</td> <td>±120°</td> <td>500°/s</td> </tr> <tr> <td>Wrist twist (JT6)</td> <td>±270°</td> <td>350°/s</td> </tr> </tbody> </table>		Operating axis	Motion range	Max. speed	Arm rotation (JT1)	±180°	200°/s	Arm out-in (JT2)	+ 135° - - 95°	180°/s	Arm up-down (JT3)	+ 60° - - 155°	225°/s	Wrist swivel (JT4)	±270°	700°/s	Wrist bend (JT5)	±120°	500°/s	Wrist twist (JT6)	±270°	350°/s
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<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>																							
9. Mass	25 kg (without options)																						
10. Mounting	Floor or Ceiling mounting																						
11. Installation Environment	Ambient Temperature: 10 - 35 °C																						
	Relative Humidity: 35 - 85 % (with no dew condensation)																						
12. External facing	Plating for resistance to VHP and Buff #400																						
13. Degree of protection	Wrist: IP67 equivalent, Arm: IP65 equivalent																						
14. Cleanliness	ISO class 5																						
15. Built-in utilities	Sensor harness	8 circuits																					
	Solenoid valve <sup>*2</sup>	Double / Single solenoid valves (2 units max.)																					
	Air port <sup>*2</sup>	2 ports (Rc 1/4)																					
	Pneumatic piping <sup>*2</sup>	φ 4 × max 4 lines																					
16. Supported sterilization	Dry process of VHP sterilization Reference Concentration of VHP: 400 - 1,200 ppm																						
17. Encoder backup battery	External: extension harness 3 m																						
18. Connector panel	Bottom connected																						
19. I/O type	NPN(sink) type																						
20. Options	Encoder backup battery	External: extension harness 1 - 5 m (every 1 m)																					
	I/O type	PNP(source) Type																					
	External axis <sup>*1</sup>	50W Brushless AC Servomotor (2 units max.)																					

Consult Kawasaki about maintenance parts and spare parts.

\*1 Servo tool specifications only

\*2 Air tool specifications only



**MC004V  
WORKING RANGE**