

KAWASAKI HEAVY INDUSTRIES, LTD. ROBOT DIVISION

Specification: 90101-2366DEB

1. Robot Specifications

[1] Robot Arm								
1. Model	3WD002N-A201							
2. Type	Horizontally articulated robot							
3. Degree of freedom	4 axes × 2 arms							
4. Axis specifications	Operating axis			Motion range		Note		
	Arm1 (lower arm)	Arm rotation (JT1)		-170° - +170°		L		
		Arm rotation (JT2)		-140° - +140°		L		
		Arm up-down (JT3)		0mm - +150mm		Specification varies in case of other options or		
		Wrist swivel	(JT4)	-360° - +360°		conversion		
	Arm 2 (upper arm)	Arm rotation	(JT1) -140° - +500°					
		Arm rotation	(JT2)	-140° - +1	40°			
		Arm up-down	(JT3)	0mm - +150mm		Specification varies in		
		Wrist swivel	(JT4)	-360° - +3	60°	case of other options or conversion		
5. Positional repeatability	± 0.05 mm (at the tool mounting surface)							
6. Max. payload	2 kg (1 arm)							
7. Load capacity of wrist	axis No. M		Ma	ix. torque		Moment of inertia*		
	JT4		3	3.9 N·m		0.086 kg·m ²		
	* If more detailed data is required for your application, please contact Kawasaki.							
8. Driving motor	Brushless AC Servomotor							
9. Motion range & dimensions	See attached drawing							
10. Mass	about 145 kg (include controller, without options)							
11. Color	Arm: Mur	Arm: Munsell N-95 equivalent						
12. Installation	Floor mounting							
13 Environmental	Temperature		5 - 40°C					
condition	Humidity $35 \sim 85 \%$ (no dew, nor frost allowed)							
14. Dressing	-	Air piping (φ6 x 1/arm)						
15. Options	Built-in double/single solenoid valve, 8 ports or less in each arm							
	Arm ID 12 inputs and 8 outputs (Use output signal for the model with valve option mounted) Air filter-regulator-mist separator combination							
	(Pressure relief 3 port valve, Regulator, Mist separator) CC-Link							
	Vision system (PC, Camera and lighting) External Axis							
	Caster stopper Safety shield							
16. Others	Contact Kawasaki about maintenance parts and spare parts.							

[2] Controller							
1.	Model	30D61H-C310					
2.	Structure	Outside air intake cooling system					
3.	Number of controlled Axes	Max. 12 Axes (6 axes x 2 arms)					
4.	Drive system	Full Digital Servo System					
5. Types of motion		Teach mode	Joint, Base, Tool operation mode				
	control	Repeat mode	Joint, Linear interpolation				
6.	Teaching method	Teaching or AS language programming					
7.	Memory capacity	4MB (includes system memory)					
8.	External operation signals	External Emergency stop					
9.	General I/O signal	Input signal	Std. 16 ports, Max 32 ports	includes Operation			
		Output signal	Std. 8 ports, Max 16 ports	panel, dedicated signals			
10.	Operation Panel	Teach/Repeat switch, Start and Stop switches, Emergency stop switch					
11.	Power requirement	AC200-AC220V±10% 50/60Hz±2%, Single phase, 2.0kVA					
12.	Ground	Less than 100 ohms (robot dedicated ground), Leakage current: max 10mA					
13.	Environment conditions	Temperature	5 - 40°C				
		Storage temperature	-25°C - +70°C				
		Relative humidity	35 - 85% (no dew, nor frost allowed)				
		Altitude	ASL 0m - 1000m				
		Contact Kawasaki for the use of exceeding the condition described above.					
14.	Options						
	Teaching device	Tablet PC(Android OS) + Tablet software					
		Dedicated terminal software (Windows OS)					
	Harness	Primary power source cable					
15.	Others	Contact Kawasaki for maintenance parts and spare parts.					

