SPECIFICATION OF ROBOT

ZT200WFD42

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KAWASAKI HEAVY INDUSTRIES LTD. ROBOT DIV.

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1. Specification of Robot

[1] Robot Arm					
1. Model	ZT200W-C				
2. Type	Articulated robot				
3. Degree of freedom	6 axes (Option 7 axes)				
4. Axis specification	Operating axis Max. operating range Max. speed				
•	Arm rotation (JT1) $+180^{\circ} \sim -180^{\circ}$ $100^{\circ}/s$				
		(JT2)	+ 60 ° ~- 75 °	100 °/s	
		(JT3)	+165 ° ~- 95 °	90 °/s	
		(JT4)	+360 ° ~-360 °	120 °/s	
		(JT5)	+120°~-120°	115 °/s	
		(JT6)	+360 ° ~-360 °	180 °/s	
	***	(JT7)	2000 mm (Standard)	1000 mm/s	
5. Repeatability	±0.3 mm (at the tool mounting surface)				
6. Max. payload	200 kg				
7. Max. linear	2500 mm/s				
interpolation speed					
8. Load capacity of					
wrist	Max. torque Moment of inertia*				
	JT4		274 N·m	117.6 kg·m²	
	JT5	1	274 N·m	117.6 kg·m ²	
	JT6	6	586 N·m	63.7 kg·m ²	
	Note* Each value in t	his table sh	lows allowable moment of ine		
	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.				
9. Driving motor	Brushless AC Servomotor				
10. Working range	See attached drawing				
11. Mass	1600 kg (without options)				
12. Color	Munsell 10GY9/1 equivalent				
13. Installation	Rack mounting				
14. Environment cond.	(Temperature) $0 \sim 45$ °C, (Humidity) $35 \sim 85$ %, no dew, nor frost allowed				
15. Built-in utilities	Pneumatic pipings (ϕ 12 × 2 lines)				
	Wirings for valves to operate the hand (DC24 V × 7 circuits)				
16. Options	Adjustable mechanical stoppers JT1/JT2/JT3				
	Limit switchs JT1/JT2/JT3				
	Color (Munsell)				
	Traverse unit (Stroke mm)				
	Internal signal harness				
	Double solenoid valve (1 circuit/2 circuits)				
	Single solenoid valve (1 circuit/2 circuits)				
	Double solenoid valve (1 circuit) and single solenoid valve (1 circuit)				
	Air cleaning equipment (filter, regulator, mistseparator)				
	Piping for cooling water				
17.00	Wrist flange:pitch circle diameter of tap for mounting tool 113 mm (conventional type)				
17. Others	Consult Kawasaki about maintenance parts and spare parts.				

[2] Controller				
1. Model	D40/D42/D43/D44			
2. Construction	Self-supported type			
3. Dimensions	See attached drawing			
4. Number of controlle	6 axes for D40/D42/D44, 5 axes for D43 (depends on number of axes of arm)			
axes	7/8 axes(built-in addition, option), Max.16 axes(external additional amplifier, option)			
5. Servo control and	Full Digital Servo System			
drive system				
6. Type of control	Teach mode Joint, Base, To	ch mode Joint, Base, Tool, Fixed Tool (option) operation mode		
	Repeat mode PTP, CP contr			
	1 1	Circular (option) interpolation		
7. Teaching method		Teaching or AS language programming		
8. Memory capacity	1 MB (Includes system memory)			
9. External operation		External Motor Power Off, External Hold, etc.		
signals		Zatomar Motor Tower Gir, External Hold, etc.		
10. General purpose	Input signals 32 channels (I	ncludes dedicated signals)		
signals		ncludes dedicated signals)		
11. Operation panel	Basic Operation Switches (Motor Po			
· ·	Error Reset, Emergency Stop, Hold/I			
12. Cable length	Power/Signal cable 10 m	, 2000, 10pout)		
	Teach Pendant cable 10 m			
13. Mass	See attached drawing			
14. Power requirement		AC380/400/415/440 V±10% with transformer, 50/60 Hz, 3 phases, 5.9 kVA(D40), 11.4 kVA(D42/D43/D44)		
•				
15. Ambient temperatur				
16. Relative humidity	35 - 85 % (non-condensation)			
17. Ground	Less than 100 Ω (robot dedicated gr	ound)		
	Leakage current: max. 10 mA			
18. Color	Munsell: 10GY9/1 equivalent			
19. Teach Pendant		Color display (6.4 inch LCD) with touch panel		
	Emergency Stop, Teach Lock and Deadman Switches			
	58 hardware keys			
20. Auxiliary storage	PC card interface			
21. Motor brake release	Manual brake release switch			
22. Options				
Memory capacity	4 MB (Includes system memory)	4 MB (Includes system memory)		
General purpose		nnels (Includes dedicated signals)		
signals		nnels (Includes dedicated signals)		
Power/Signal cable	5 m, 15 m			
Teach Pendant cable				
PC card	16/32/64/128 MB			
PC cable	1.5 m, 3 m			
Others		Built-in PLC, LAN, Interbus-S, analog input and so on		
23. Others		Consult Kawasaki about maintenance parts and spare parts.		



