SPECIFICATION OF ROBOT ZT200SFD42 4th Edition: Mar.30.2007

KAWASAKI HEAVY INDUSTRIES LTD.

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ROBOT DIV.

1. Specification of Robot

[1] Robot Arm	*****					
1. Model	ZT200S-C	-				
2. Type	Articulated robot					
3. Degree of freedom	6 axes (Option 7 axes)					
4. Axis specification	Operating axis Max. operating range Max. speed			Max speed		
1	Arm rotation	(JT1)	+180 ° ~-180 °	100 °/s		
	Arm out-in	(JT2)	+ 60° ~- 75°	100 °/s		
	Arm up-down	(JT3)	+165 ° ~- 95 °	90 °/s		
	Wrist swivel	(JT4)	+360 ° ~-360 °	120 °/s		
	Wrist bend	(JT5)	+120 ° ~-120 °	115 °/s		
	Wrist twist	(JT6)	+360 ° ~-360 °	180 °/s		
	Linear traverse	(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				An yang		
wrist			Max. torque	Moment of inertia*		
:	JT4		1274 N·m	117.6 kg·m ²		
	JT5		1274 N·m	117.6 kg·m ²		
	JT6		686 N·m	63.7 kg·m ²		
	Note* Each value	in this table	shows 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) $0\sim45^{\circ}\text{C}$, (Humidity) $35\sim85\%$, no dew, nor frost allowed				
15. Built-in utilities	Pneumatic pipings (ϕ 12 × 2 lines)					
			the hand (DC24 V \times 7 circuits)			
16. Options	Adjustable mecha		ers JT1/JT2/JT3			
	Limit switches JT1/JT2/JT3					
	Color (Munsell)			
	Traverse unit (Stroke mm)					
	Internal signal ha					
	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					
17.04	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 controlled	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, Tool, Fixed Tool (option) operation mode		
	• •	Repeat mode	PTP, CP control mode		
		1	Joint, Linear, Circular (option) interpolation		
7.	Teaching method	Teaching or AS language programming			
	Memory capacity	1 MB (Includes system memory)			
	External operation	External Motor Power Off, External Hold, etc.			
	signals		,		
10.	General purpose	Input signals	32 channels (Includes dedicated signals)		
	signals	Output signals	32 channels (Includes dedicated signals)		
11.	Operation panel		tches (Motor Power On, Cycle Start,		
, r		Error Reset, Emergency Stop, Hold/Run, Teach/Repeat)			
12.	Cable length	Power/Signal cable	10 m		
	<u> </u>	Teach Pendant cable			
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 temperature	0 - 45 °C			
16.	Relative humidity	35 - 85 % (non-condensation)			
17.	Ground				
		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 syste	em memory)		
	General purpose	Input signals	64/96/128 channels (Includes dedicated signals)		
	signals	Output signals	64/96/128 channels (Includes dedicated signals)		
	Power/Signal cable 5 m, 15 m				
	Teach Pendant cable	5 m, 15 m			
	PC card	C card 16/32/64/128 MB C cable 1.5 m, 3 m			
	PC cable				
	Others				
23.	Others	Consult Kawasaki about maintenance parts and spare parts.			



