SPECIFICATION OF ROBOT

MX350LFD44

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KAWASAKI HEAVY INDUSTRIES LTD. ROBOT DIV.

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1. Specification of Robot

[1] Robot Arm					
1. Model	MX350L-A				
2. Type	Articulated robot				
3. Degree of freedom	6 axes (Option 7 axes)				
4. Axis specification	Operating axis Max. operating range Max. speed				
•		$+180^{\circ} \sim -180^{\circ}$	80 °/s		
		$(T2)$ + 90 ° \sim - 45 °	70 °/s		
		$(T3)$ + 20° \sim -115°	70 '/s 70 °/s		
		T4) $+360^{\circ} \sim -360^{\circ}$	80 °/s		
		T5) $+110^{\circ} \sim -110^{\circ}$	80 °/s		
		$\frac{15)}{16}$ $+360^{\circ} \sim -360^{\circ}$			
		-) 2000 mm (Standard)	120°/s		
5. Repeatability) Gundara)	1000 mm/s		
6. Max. payload	±0.5 mm (at the tool mounting surface) 350 kg				
7. Max. linear	2000 mm/s				
interpolation speed					
8. Load capacity of					
wrist		Max. torque	Moment of investigation		
	JT4	2740 N·m	Moment of inertia*		
	JT5	2740 N·m	$\frac{400 \text{ kg} \cdot \text{m}^2}{400 \text{ kg} \cdot \text{m}^2}$		
	JT6	1960 N·m	$\frac{400 \text{ kg} \cdot \text{m}^2}{250 \text{ kg} \cdot \text{m}^2}$		
		THE COLUMN TWO IS NOT	259 kg·m ²		
	max. allowed torq	s table shows allowable moment of in the stable shows allowable moment of in the stable shows a	mertia of JT4/JT5/JT6 when letailed data is required for		
9. Driving motor	Brushless AC Servomotor				
10. Working range	See attached drawing				
11. Mass	2800 kg (without options)				
12. Color	Munsell 10GY9/1 equivalent				
13. Installation	Floor 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)				
: [perate the hand (DC24 V × 7 circuits	5)		
16. Options	Adjustable mechanical stoppers JT1/JT2/JT3 Limit switches JT1/JT2/JT3				
	Forklift pockets for trans				
	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)				
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I	Double solellold valve (1	bing of bolonoid valve i	Air cleaning equipment (filter, regulator, mistseparator)		
	Air cleaning equipment ((filter, regulator, mistseparator)	(1 onoun)		
	Air cleaning equipment (Piping for cooling water	(filter, regulator, mistseparator)	1 oneur)		

[2] Controller				
1. Model	D40/D42/D42/D44			
2. Construction	D40/D42/D43/D44			
3. Dimensions	Self-supported type			
4. Number of controlled	See attached drawing			
	6 axes for D40/D42/D44, 4 axes for D43(Std.), 5 axes for D44-MD(Std.)			
axes	7/8 axes(built-in addition,option), Max.16 axes(external addition by amplifier			
<i>5</i> C	built-in motor, 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		
7 T1:	T 1:	Joint, Linear, 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	T 1			
10. General purpose	Input signals	32 channels (Includes dedicated signals)		
signals	Output signals	32 channels (Includes dedicated signals)		
11. Operation panel	Basic Operation Switches (Motor Power On, Cycle Start,			
12 Cable langth	Error Reset, Emergency Stop, Hold/Run, Teach/Repeat)			
12. Cable length	Power/Signal cable	10 m		
13. Mass	Teach Pendant cable 10 m			
14. Power requirement	155 kg(D40), 190 kg(D42/D44), 200 kg(D43, D44-MD) with transformer			
14. Tower requirement	AC380/400/415/440 V±10% with transformer, 50/60 Hz, 3 phases,			
15. Ambient temperature	5.9 kVA(D40), 11.4 kVA(D42/D43/D44)			
16. Relative humidity		0 - 45 °C		
17. Ground		85% (non-condensation) than $100\ \Omega$ (robot dedicated ground)		
17. Ground				
18. Color	Leakage current: max. 10 mA Munsell: 10GY9/1 equivalent			
19. Teach Pendant				
13. Todon Tondant	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. Options	1 C card micrace			
Memory capacity	4 MB (Includes syste	4 MR (Includes system memory)		
General purpose	4 MB (Includes system memory) 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	16/32/64/128 MB			
Memory storage	FD drive			
PC cable	1.5 m, 3 m			
Others	Built-in vision board, built-in PLC, LAN, Interbus-S, analog input and so on			
22. Others	The state of the s			
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