



Techman Robot

Product Pre-announcement

Vol. 43

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Release Date: 2022/08/12

Revision History

Revision	Date	Content
1.0	2022/8/12	Official Release





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Medium Heavy Payload-TM20 Series

Launch Date: 2023/1/31

Item	1				
Product Name	Medium-Heavy Payload TM20 Series				
Type	✓	New	Conditions	✓	Standard
		Modification			Licensed
Intended Use					
Content	<div style="display: flex; justify-content: space-around; align-items: center;">  </div> <p>The medium heavy payload series-TM20 offers 20kg high payload and 1300mm long reach, which can carry heavier end of tool and handle more different applications. Applicable for the semiconductor industry, manufacturing industry, automotive and welding industry, warehouse and logistics industry, etc.</p>				

TM20 Spec (Tentative)

Model		TM20	TM20M
Weight		32.8Kg	
Maximum Payload		20Kg	
Reach		1300mm	
Joint ranges	J1, J6	+/- 270°	
	J2, J4, J5	+/- 180°	
	J3	+/- 166°	
Speed	J1, J2	90°/s	
	J3	120°/s	
	J4	150°/s	
	J5	180°/s	
	J6	225°/s	
Typical Speed		1.3 m/s	
Max. Speed		3 m/s	
Repeatability		+/- 0.1 mm	
Degree Of Freedom		6 rotation joints	
I/O	Control box	Digital In: 16 Analog In: 2	Digital Out: 16 Analog Out: 1
	Tool Conn.	Digital In: 4 Analog In: 1	Digital Out: 4 Analog Out: 0
I/O Power Supply		24V 2.0A for control box and 24V 1.5A for tool	
IP Classification		IP54(Robot Arm); IP32(Control Box)	
Power Consumption		Typical 300 watts	
Temperature		The robot can work in a temperature range of 0-50°C	
Power Supply		100-240 VAC, 50-60 Hz	22-60VDC
I/O Interface		3xCOM、1xHDMI、3xLAN、4xUSB2.0、2xUSB3.0	
Communication		RS232, Ethernet, Modbus TCP/RTU(master & slave), PROFINET(Optional), EtherNet/IP(Optional)	
Programming Environment		TMflow, flowchart based	
Certification		CE	
Robot Vision			
Eye in Hand (Built in)		1.2M/5M pixels, color camera	
Eye to Hand (Optional)		Support Maximum GigE 2D cameras*	

*Refer to the official Websites of TM Plug&Play for camera models compatible to TM Robot