

			SPECIFICATION			
Model		TM7S	TM5S	TM14S	TM12S	TM25S
Weight		22.9kg	23.9kg	33kg	33.3kg	80.6kg
Maximum Payload		7 kg	5kg	14kg	12kg	25kg
Reach		700mm	900mm	1100mm	1300mm	1902mm
Joint Ranges	J1, J2, J4, J5, J6			+/- 360°		
John Ranges	J3	+/- 152°	+/- 158°	+/- 163°	+/- 162°	+/- 166°
	J1,J2	210°/s		130°/s		100°/s
Speed	J3	210°/s		210°/s		130°/s
	J4	225°/s		225°/s		195°/s
	J5	225°/s		225°/s		210°/s
	J6	450°/s		450°/s		225°/s
Maximum Speed		4m/s		4m/s		5.2m/s
Repeatability		+/- 0.0	+/- 0.03mm +/- 0.03		03mm	+/- 0.05mm
Degrees of freedom		6 rotating joints				
	Control box	Digital In: 16 / Digital Out: 16				
I/O Ports		Analog In: 2 / Analog Out: 2				
1/01/01/03	Tool Conn.	Digital In: 3 / Digital Out: 3				
		DO_0 (DO-0/AI) / DO_1 (DO-1/RS485+) / DO_2 (DO-2/RS485-)				
I/O Power Supply		24V 2.0A for control box and 24V 1.5A for tool				
IP Classification		IP54 (Robot Arm); IP54 (Control Box)				
Typical Power Consumption		240 \	watts	400 watts		500 watts
Temperature		The robot can work in a temperature range of 0-50°C				
Cleanroom class		ISO Class 3				
Power Supply		100-240 VAC, 50-60 Hz				
I/O Interface		$2 \times COM$, $1 \times HDMI$, $3 \times LAN$, $2 \times USB2.0$, $4 \times USB3.0$				
Communication		RS232, Ethernet, Modbus TCP/RTU(master & slave), PROFINET(Optional), EtherNet/IP(Optional)				
Programming Environment		TMflow, flowchart based, script based				
Certification		CE, SEMI S2 (Option)				
			AI & Robot Vision			
AI Function		Classification, Object Detection, Segmentation, Anomaly Detection, AI OCR				
Application		Positioning, 1D/2D Barcode Reading, OCR, Defect Detection, Measurement, Assembly Check				
Positioning Accuracy		2D Positioning: 0.1 mm* ⁽¹⁾				
Eye in Hand (Built in)		Auto-focused color camera with 5M resolution, Working distance 100 mm ~ ∞				
Eye to Hand (Optional)		Support Maximum 2 $ imes$ GigE 2D cameras or $1 imes$ GigE 2D Camera + 1 $ imes$ 3D Camera* $^{(2)}$				
(1)						

* ⁽¹⁾ The data in this table are measured by TM laboratory and the working distance is 100mm. It should be noted that in practical applications, the relevant values may be different due to factors such as the on-site ambient light source, object characteristics, and vision programming methods that will affect the change in accuracy. ²⁾ Refer to the official website of TM Plug&Play for camera models compatible to TM Robot.



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TM AI COBOT S series



- High-payload of 25kg
- Best reach in 25kg payload cobot market*
- Built-in vision system & AI
- Suitable for machine tool material push stack, automobile industry assembly

*In compare with the other 25kg cobots in the market







