

			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°				
	J3	+/- 152°	+/- 158°	+/- 163°	+/- 162°	+/- 166°
Speed	J1,J2	210°/s		130°/s		100°/s
	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		+/- 0.03mm		+/- 0.03mm		+/- 0.05mm
Degrees of freedom		6 rotating joints				
I/O Ports	Control box	Digital In: 16 / Digital Out: 16				
		Analog In: 2 / Analog Out: 2				
	Tool Conn.	Digital In: 3 / Digital Out: 3				
	Tool Colli.	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×COM, 1×HDMI, 3×LAN, 2×USB2.0, 4×USB3.0				
Commu	unication	RS232, Etherr	net, Modbus TCP/RTU(master & slave), PROFIN	NET(Optional), EtherNe	et/IP(Optional)
Programming Environment		TMflow, flowchart based, script based				
Certif	ication			CE, SEMI S2 (Option)		
			AI & Robot Vision			
Al 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× GigE 2D cameras or 1× GigE 2D Camera + 1× 3D Camera* (2)				

^{* &}lt;sup>(1)</sup> 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.



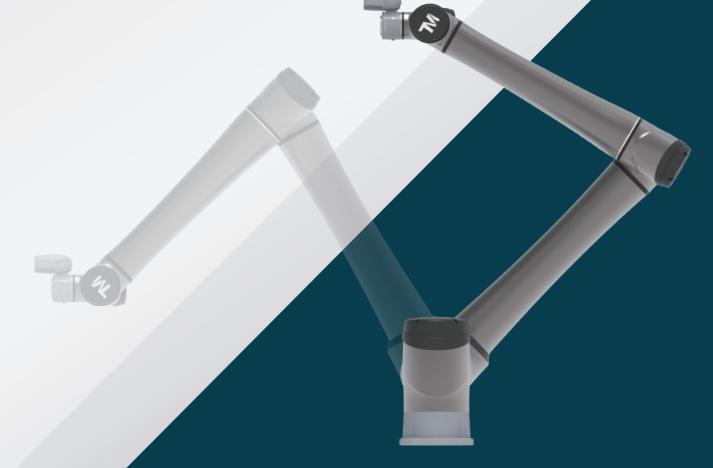
Smarter, Simpler, Safer and Super!

TM AI COBOT S series

NEW TM 25S

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

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









New Generation AI Cobot Series

TM AI Cobot S Series













TM7S

- · Payload: 7 kg
- Reach: 700 mm

TM5S

- · Payload: 5 kg
- · Reach: 900 mm

TM14S

- Payload: 14 kg
- Reach: 1100 mm

TM12S

- · Payload: 12 kg
- · Reach: 1300 mm

TM25S

- · Payload: 25 kg
- Reach: 1902 mm



Enhance motor speed! Cycle time is 25% faster

- The joint speed of the 6th axis is increased from 225°/s to 450°/s
- Improves the cycle time and reduces it by 25%*



Brand new Robot Stick with Enabling Switch and RESET button

- Robot Stick with 3-position Enabling Switch, RESET button for safer operation
- Combine with TM Screen for easy teaching, debugging, and control via teach pendant and TM Pen



Maximum 70% improvement of repeatability to 0.03 mm

• Repeatability of TM5S/TM7S/TM12S/TM14S: 0.03mm, maximum 70% improvement!*



Up to 31 PL=d, Cat.3 Safety Functions certified by TÜV

- Safety functions acc. to ISO 13849-1 certified by TÜV. Passed international safety certification ISO 10218-1
- Regional safety certification of UL & CSA for North America, CE for Euro
- Enables easy safety assessments with flexible safety functions that lower the cost of safety control configuration



Even better! Control box upgrade to IP54

- · Control box is IP54 rated for harsh environments applications
- Well protect with dust and a level of water resistance



TMflowTM 2 Series: Safe, Easy, and More Intelligent

- · Innovative graphical UI with more exclusive software
- Includes dozens of function nodes that are easier to use and yet to close the gap between integration and your application











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