TM AI Cobot S Series

ROBOT

TM30S



Increased Maximum Load Capacity Up To $30\,\mathrm{kg}$

• With the maximum load increased to 30 kg, the weight remains lightweight



Expanded Capacity To Handle Heavy Workpieces

 For example, push stack, machine tool material pick and place, and automobile industry assembly



Safe As Always

Up to 31 PL=d, Cat.3 safety functions certified by TÜV

TM30**S**

- Heavy Payload: 30 kg
- Light-weight: 80.6 kg
- Wide Range: 1,702 mm



Specification



Model		TM30S	TM30S-M	TM30S-X
Weight		80.6 kg	80.6 kg	80.3 kg
Maximum Payload			30 kg	
Reach			1702 mm	
Joint	J1, J2, J4, J5, J6		+/- 360°	
Ranges	J3		+/- 170°	
Joint Speed	J1, J2		100°/s	
	J3	130°/s		
	J4	195°/s		
	J5	210°/s		
	J6	225°/s		
Maximum Speed		5.2 m/s		
Repeatability		+/- 0.05 mm		
Degrees of Freedom		6 rotating joints		
	C 1 1D	Digital In: 16 / Digital Out: 16		
I/O	Control Box	Analog In: 2 / Analog Out: 2		
	T 10	Digital In: 3 / Digital Out: 3		
	Tool Conn.	DO_0 (DO-0/AI) / DO_1 (DO-1/RS-485-) / DO_2 (DO-2/RS-485+)		
I/O Power Supply		24V 2.0A for control box and 24V 1.5A for tool		
IP Classification		IP54 (Robot Arm);	IP54 (Robot Arm);	IP54 (Robot Arm);
		IP54 (Control Box)	IP54 (Control Box)	IP54 (Control Box)
Power Consumption		Typical: 600 watts		
Temperature		0~50°C		
Cleanroom Class			ISO Class 3	
Power Supply		200~240 VAC, 50~60 Hz	48~60 VDC	200~240 VAC, 50~60 Hz
I/O Interface		2×COM, 1×HDMI, 3×LAN, 2×USB2.0, 4×USB3.0		
Communication		RS-232/RS-422/RS-485, Ethernet, Modbus TCP/RTU (master & slave)		
		PROFINET (optional), EtherNet/IP (optional)		
Programming Environment		TMflow (flowchart based/ script based)		
Certification		CE, SEMI S2 (optional)		
Al & 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 ~ ∞		N/A
Eye to Hand (Optional)		Support Maximum $2 \times \text{GigE 2D}$ cameras or $1 \times \text{GigE 2D}$ Camera $+ 1 \times 3D$ Camera $*^{(2)}$		
It shou due to progra	uld be noted that in p factors such as the c amming methods tha	ractical applications, the relevents on-site ambient light source, o t will affect the change in accu	bject characteristics, and vision	