

OMRON

THE OMRON TM COLLABORATIVE ROBOT

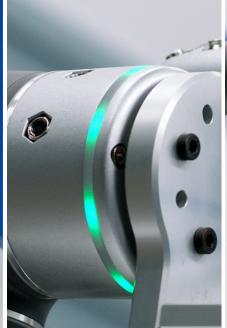
For more than 85 years, OMRON has excelled at building machines that help humans. Now we are taking that legacy one step further. Introducing the new **OMRON TM Collaborative Robot**.

Designed to work with both humans and machines this robot is the latest in a long line of innovations in automation technology for industrial applications.

Safe and transportable, with **built-in vision**, this robot allows for **quick start-ups** and **rapid changeovers**. Its intuitive software enables the robot to be easily trained to perform almost any task wherever you may need it, freeing your workforce from repetitive tasks and increasing your productivity.











ADAPTABLE TO YOUR NEEDS

Whether you're working in automotive, semiconductors, secondary packaging for food, or cosmetics, the OMRON TM Collaborative Robot is designed to adapt to almost any industry.

Featured Industries



Semiconductor



Automotive



Cosmetics



FLEXIBLE FOR YOUR FACTORY



The OMRON TM Collaborative Robot is so versatile it can be assigned to almost any task.

Respond to any manufacturing need by configuring the robot at will, maximizing your resources and increasing productivity.

EASILY SWITCH END-EFFECTORS TO COMPLETE ANY TASK



QUICK START-UP AND CHANGEOVER

Downtime costs money, which means you need a robot that can start fast and stay running. Our Plug and Play software enables this robot to work right out of the box It is so intuitive it allows for quick programming during startups and changeovers, getting your production up and running as fast as possible.



FASTER SET-UP WITH BUILT-IN **VISION**

The OMRON TM Collaborative Robot features a built-in vision system. The integrated camera localizes objects in



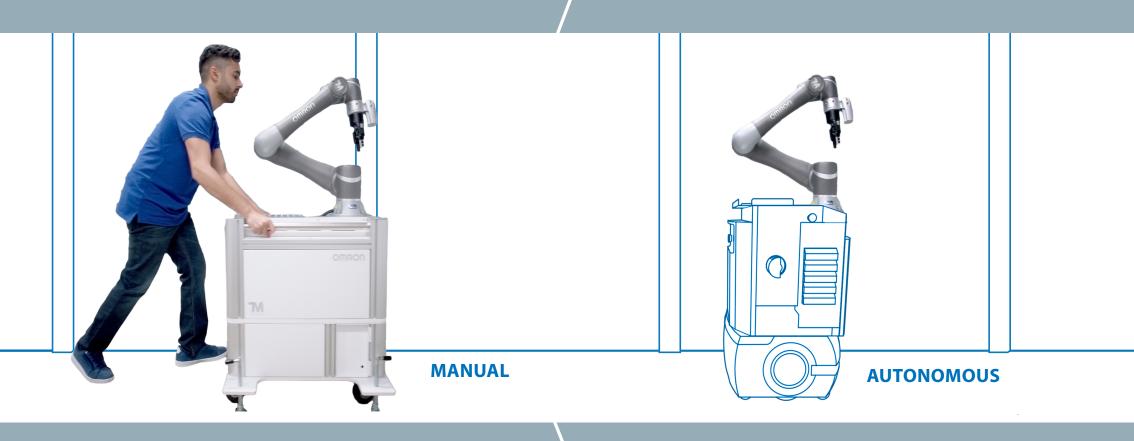


SAFETY

Harmony between humans and machines requires the highest standards of safety. The OMRON TN Collaborative Robot is designed to promote a safety workplace.

MOBILITY

COMING SOON



TRANSPORTABLE: The mobility of the OMRON TM Collaborative Robot allows you to easily relocate and recommission it for any new task.

AUTONOMOUS MOBILITY: Combining the OMRON TM Collaborative Robot with its industry-leading mobile robots provides maximum versatility in your workspace.

TECHNICAL DETAILS

		TM5				TM12		TM14		
		TM5-700	TM5M-700	TM5-900	TM5M-900	TM12	TM12M	TM14	TM14M	
Weight (kg)		22.1		22.6		33.3		32.6		
Max Payload (kg)		6		4		12		14		
Reach (mm)		70	0	900		1300		1100		
Typical Speed (m/s)		1.	1	1.4		1.3		1.1		
Joint Ranges	J1	±270°			±270°					
	J2, J4, J5	±180°			±180°					
	J3	±155°				±166° ±163°			63°	
	J6	±270°				±270°				
Joint Speeds	J1, J2		180	O°/s		120°/s				
	J3		180)°/s		180°/s				
	J4, J5			5°/s		180°/s		150°/s		
	J6		22	°/s		180°/s				
Repeatability (mm)			±0	.05		±0.1				
IP		IP54 (robot arm), IP32 (control box)								
Operating Temperature (°c)		0 to 50								
Power Supply		100-240 VAC, 50-60 Hz	22-60 VDC	100-240 VAC, 50-60 Hz	22-60 VDC	100-240 VAC, 50-60 Hz	22-60 VDC	100-240 VAC, 50-60 Hz	22-60 VDC	
					CONTR	OL BOX				
	Digital In				1	6				
	Digital Out	16								
	Analog In	2								
I/O Ports	Analog Out	1								
I/O FOILS		TOOL								
	Digital In	4								
	Digital Out	4								
	Analog In	1								
	Analog Out	0								
I/O Interface		3 X COM, 1 X HDMI, 3 X LAN, 4 X USB2.0, 2 X USB3.0								
Communication		RS232, Ethernet (master), Modbus TCP/RTU (master & slave)								
Integrated Camera		5M pixels, color (AOI tasks: 5M/1.2M; others: 1.2M)								
I/O Power Supply		24V 1.5A (control box and tool)								
Programming Environment		TMflow, flowchart based								
SEMI S2 Certified		Yes, as an option								











VISION BUTTON-GRIPPER BUTTON POINT BUTTON BUILT-IN VISION FREE BUTTON **PAYLOAD REACH UP TO UP TO** 1300mm 14 kg

ORDERING INFORMATION

COLLABORATIVE ROBOTS

Туре	Model		
TM5-700	RT6-0007000		
TM5-900	RT6-0009000		
TM5M-700	RT6-0107000		
TM5M-700 SEMI	RT6-0107010		
TM5M-900	RT6-0109000		
TM5M-900 SEMI	RT6-0109010		
TM14	RT6-2001100		
TM12	RT6-1001300		
TM14M	RT6-2101100		
TM14M SEMI	RT6-2101110		
TM12M	RT6-1101300		
TM12M SEMI	RT6-1101310		

ACCESSORIES

Туре	Model
Landmark	RT6-A000008
Mobile Workstation(MWS)	RT6-A000010
Robot Stand	RT6-A000009
SSD with cable	RT6-A000012
Kit, calibration set with additional pin	RT6-A000002
Robot stick stand	RT6-A000000
Preumatic control box	RT6-A000015

SOFTWARE

Туре	Model		
USB Dongle	RT6-A000004		
TMflow Editor License	RT6-S200001		
TM Identify & Measure License	RT6-S100000		
TM External Vision License	RT6-S100002		
TM OCR License	RT6-S100003		
TMflowEditor - Offline AOI	RT6-S100005		

