

OMRON

OMRON TM COLLABORATIVE ROBOT

THE OMRON TM **COLLABORATIVE ROBOT**

For more than 85 years, OMRON has excelled at building legacy one step further. Introducing the new **OMRON TM Collaborative Robot.**

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 your workforce from repetitive tasks and increasing your











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



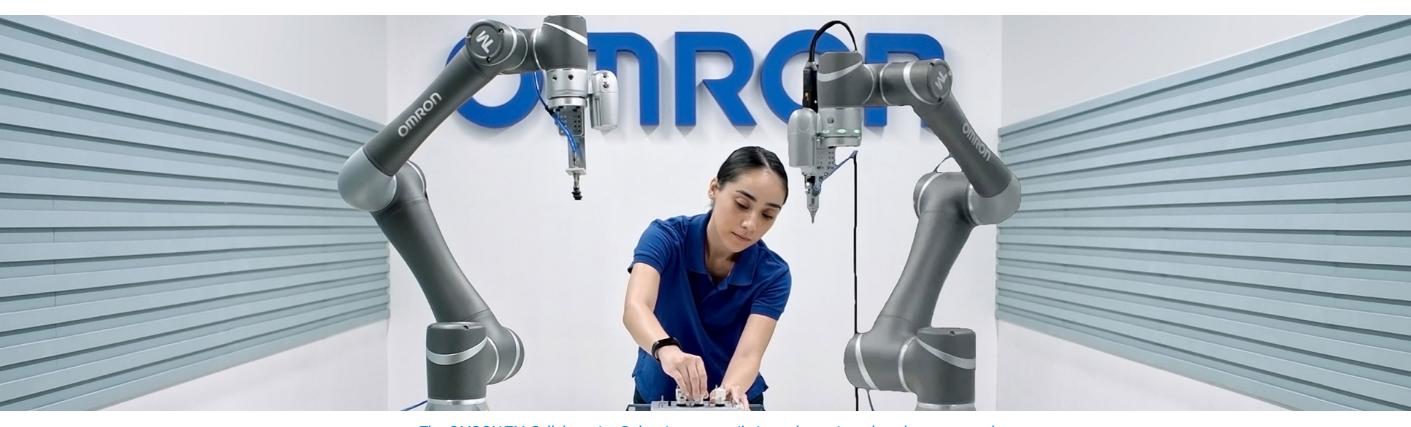
Automotive



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.



INTUITIVE SOFTWARE FOR EASY PROGRAMMING

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

The OMRON TM Collaborative Robot features a built-in vision system. The integrated camera localizes objects in a wide field of vision, and the image-enhancement light and sorting with no additional cost or effort.



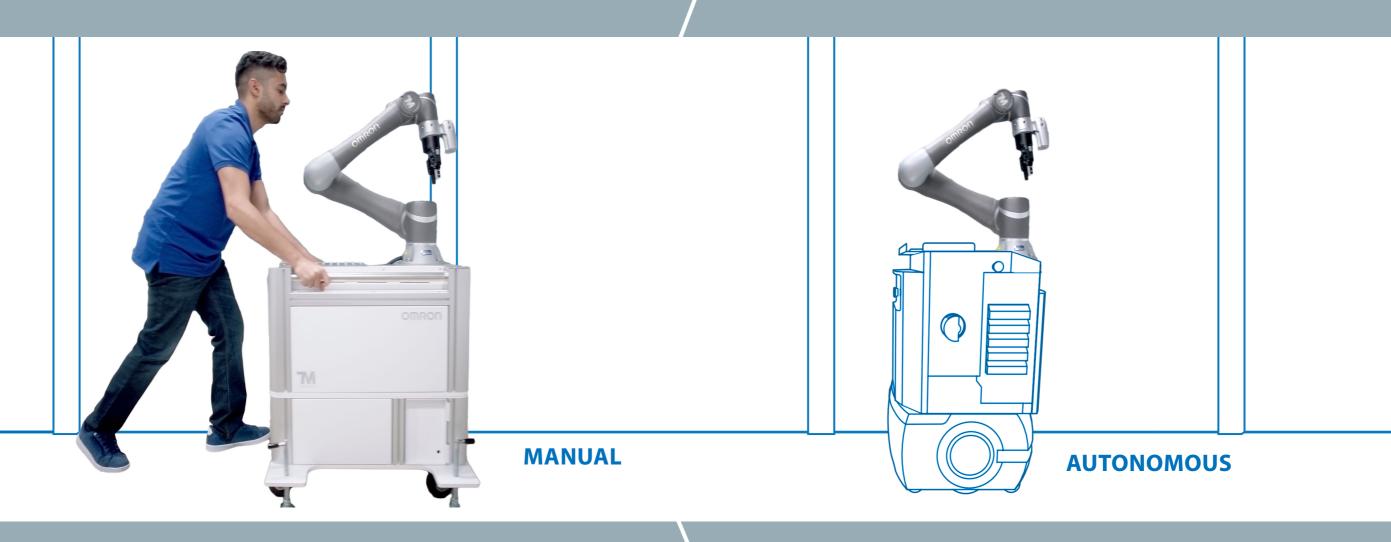


SAFETY

Harmony between humans and machines requires the highest standards of safety. The OMRON TM Collaborative Robot is designed to promote a safer 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)		700		900		1300		1100	
Max 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°				
	J6	±270°				±270°			
Joint Speeds	J1, J2	180°/s				120°/s			
	J3	180°/s			180°/s				
	J4, J5	225°/s				180°/s 150°/s			0°/s
	J6	225°/s				180°/s			
Repeatability (mm)		±0.05				±0.1			
IP (arm)		IP54							
Operating Temperature (°c)		0 to 50							
Power Supply		100-240 VAC, 50-60 Hz	20-60 VDC	100-240 VAC, 50-60 Hz	20-60 VDC	100-240 VAC, 50-60 Hz	20-60 VDC	100-240 VAC, 50-60 Hz	20-60 VDC
Max Power Ca	pacity (w)	1400	1500	1400	1500	2200	1500	2200	1500
I/O Ports		CONTROL BOX				TOOL			
	Digital In	16				4			
	Digital Out	16				4			
	Analog In	2				1			
	Analog Out	1				0			
I/O Interface		3 X COM, 1 X HDMI, 3 X LAN, 4 X USB2.0, 2 X USB3.0							
Communication		3 X RS232, TCP/IP(Master), Modbus TCP/RTU(Master & Slave)							
Integrated Camera		5M pixels, color (AOI tasks: 5M; Others: 1.2M)							
I/O Power Supply		24V 1.5A (CONTROL BOX and TOOL)							
Programming Environment		TMFlow, flow chart based							
SEMI S2 Certified		Yes, as an option							







SEMI S2

