

Expand Packaging and Material-Handling with OMRON's iX4 High-Speed Parallel Robot

Introducing the iX4, OMRON's four axis robot with high payload capacity and high-speed precision.

The iX4 is the industry-leading robot when it comes to speed and precision, while boasting a payload capacity of 15kg. It is the only parallel robot in the world with our patented four-arm rotational platform delivering maximum speed, maximum acceleration and exceptional performance across the workplace.

Key features include:

- Designed with a high payload to support multi-hand (multi-picking).
- Meets the sanitary standards of the USDA and the FDA.
- Supports quick and high-precision pick and place applications on a fast conveyor.
- EtherCAT connectivity to the OMRON NJ501-R controller and programming through the familiar IEC 61131-3 programming language or scripting.

The fastest parallel robot yet.

The iX4 parallel robot offers exceptionally fast and flexible packaging and material-handling applications. OMRON's iX4 has four arms which help evenly distribute the load on the robot and support multi-picking making it faster than all other robots.

Expanded food-handling.

OMRON has taken the concept of material-handling to a new level with the iX4 robot. It meets the sanitary standards of the United States Department of Agriculture and the Food and Drug Administration for the prevention of product contamination, allowing the iX4 to be accepted for meat and poultry processing.



OMRON iX4 Parallel Robot

OMRON



Product Name		iX4						
	Size	650			800			
	Type	H		HS	H		HS	
	IP	Standard	IP65/67	Standard	Standard	IP65/67	Standard	
Part Number		RX4-216600[]	RX4-216602[]	RX4-216601[]	RX4-216600[]	RX4-216602[]	RX4-216601[]	
Number of axes		4						
Mounting		inverted						
Working Volume	X, Y axis (stroke)	1300 mm			1600 mm			
	Z Axis (stroke)	500 mm						
	theta axis (rotaion angle)	0 ° (fixed) (P30)						
		± 46.25 ° (P31)						
		± 92.5 ° (P32)						
		± 185 ° (P34)						
Maximum Payload		6 kg (P30: 15 kg)		3 kg (P30: 12 kg)	4 kg (P30:10 kg)		1 kg (P30: 7 kg)	
Repeatability		± 0.10 mm						
Cycle times, sustained, at 20 ° ambient	Payload 0.1 kg	0.30 s *1, 0.46 s *2		0.39 s *1, 0.55 s *2	0.33 s *1, 0.48 s *2		-	
	Payload 1.0 kg	0.36 s *1, 0.47 s *2		0.41 s *1, 0.58 s *2	0.38 s *1, 0.50 s *2			
	Payload 2.0 kg	0.37 s *1, 0.52 s *2		0.42 s *1, 0.59 s *2	0.40 s *1, 0.55 s *2		-	
	Payload 4.0 kg	0.41 s *1, 0.58 s *2		-	0.45 s *1, 0.62 s *2		-	
	Payload 6.0 kg	0.43 s *1, 0.61 s *2		-	-		-	
Power Requirements		24 VDC: 11 A (eAIB, SmartController) 200 to 240 VAC: 10 A, single-phase						
Protection	Base	Topside of robot	IP20	IP65	IP66	IP20	IP65	IP66
		Underside of robot	IP65		IP66	IP65		IP66
	Platform, Arms		IP67					
Environment Requirements	Ambient Temperature		1 to 40 ° C					
	Humidity Range		5 to 90% (non-condensing)					

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