

Parallel Robots iX3-565

EtherCAT (NJ501-R) version

Parallel robot ideal for use in the food and beverage, pharmaceutical, and healthcare industries

- EtherCAT connectivity to the Omron NJ501-R controller and programming through the familiar IEC 61131-3 programming language or scripting (eV+).
- Tracks up to a conveyor speed of 1.4 m/s
- Designed with a high payload to support multi-hand (multi-picking)
- Supports fast Pick & Place on a fast conveyor
- Helps reduce mounting cost and robot vibration
- Maximum working diameter 1,130 mm
- Working height 425 mm
- Maximum payload 8 kg
- Weight 52 kg



Specifications

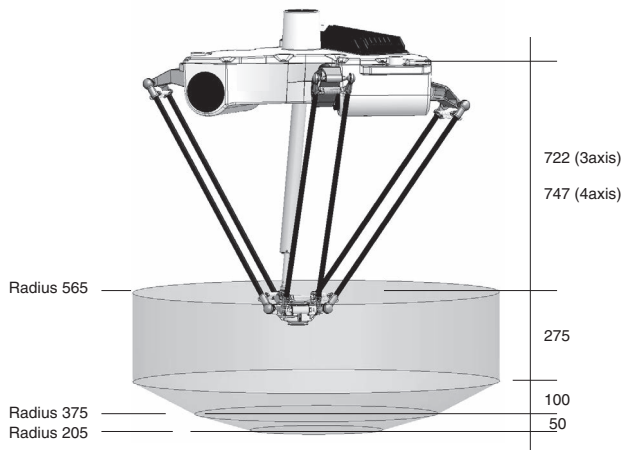
Product name		iX3				
Size		565				
Number of axes		3 Axis		4 Axis		
IP		Standard	IP65/67	Standard	IP65/67	
Part Number		RX3-2065600	RX3-2065610	RX3-2065604	RX3-2065614	
Mounting		inverted				
Working volume	X,Y axis (stroke)	1130 mm				
	Z axis (stroke)	425 mm				
	theta axis (rotation angle)	-		±360°		
Maximum Payload		8 kg		3 kg		
Repeatability		±0.10 mm				
Cycle times, sustained, 20°C ambient *1	Payload 0.1 kg	0.32 s		0.35 s		
	Payload 1.0 kg	0.34 s		0.37 s		
	Payload 3.0 kg	0.38 s		0.42 s		
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase				
Protection	Base	Topside of robot	IP20	IP65	IP20	IP65
		Underside of robot	IP65			
	Platform, Arms	IP67				
Environment Requirements	Ambient Temperature	1 to 40°C				
	Humidity Range	5 to 90% (non-condensing)				
Weight		52 kg				
Basic configuration	Controller	iCS-ECAT				
	On-board I/O (Input/Output)	12/8				
	Conveyor tracking input	2				
	RS-232C serial communications port	1				
	Programming environment	Sysmac Studio 64-bit				
	ACE Sight	Yes				
	ePLC Connect	No				
Connectable controller		NJ501-R Series				

*1. Adept cycle, in mm (25/305/25)

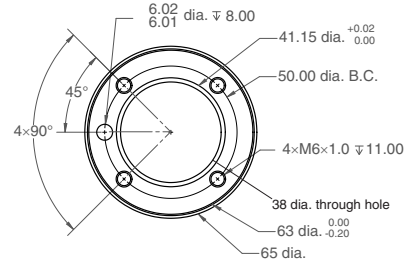
Dimensions

(Unit: mm)

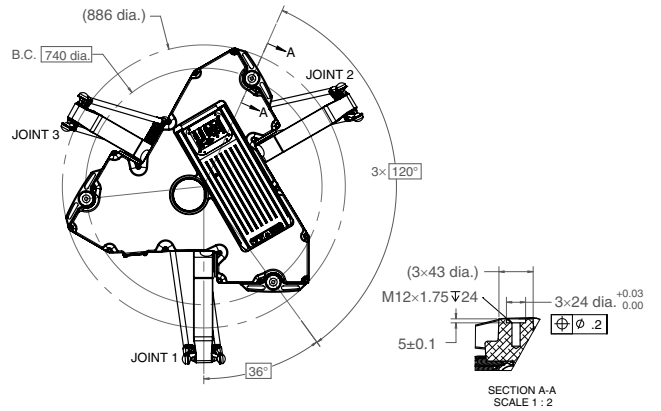
iX3



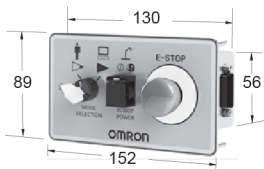
Flange



Footprint



Front panel



Robot Parts Code and Bundled Accessories

Type	iX3	
IP	Standard	IP65/67
iX3 3 Axis	RX3-2065600	RX3-2065610
iX3 4 Axis	RX3-2065604	RX3-2065614
Overview	To be used in conjunction with NJ501-R Series controller, which can connect up to 8 robots via EtherCAT	
Bundled Accessories	<ul style="list-style-type: none"> XSYSTEM cable with jumpers and Ethernet Management port, 1.8 m/6 ft (13323-100) Front panel kit (92546-10358) 	

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