

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

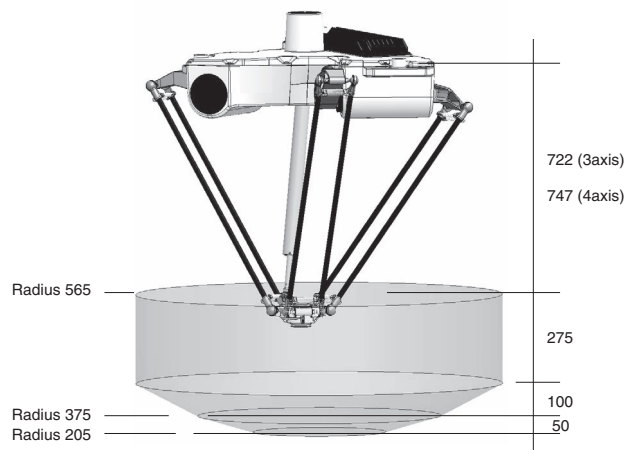
Product name			iX3			
			565			
			3 Axis		4 Axis	
Size			Standard	IP65/67	Standard	IP65/67
Number of axes						
IP						
Part Number			RX3-2065600	RX3-2065610	RX3-2065604	RX3-2065614
Mounting			inverted			
Working volume	X,Y axis (stroke)		1130 mm			
	Z axis (stroke)		425 mm			
	theta axis (rotation 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			
	ePLC I/O		No			
Connectable controller			NJ501-R Series			

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

Dimensions

(Unit: mm)

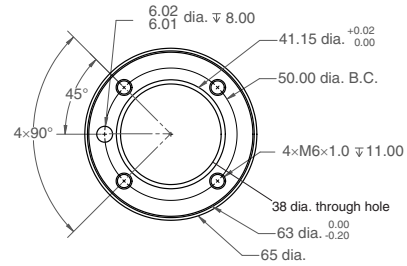
iX3



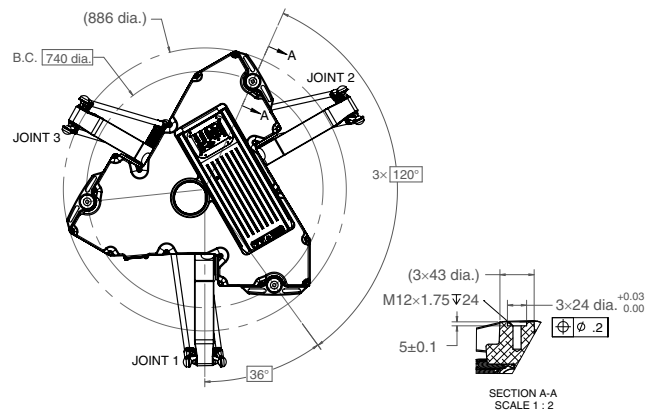
Front panel



Flange



Footprint



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	- XSYSTEM cable with jumpers and Ethernet Management port, 1.8 m/6 ft (13323-100) - Front panel kit (92546-10358)	

Hornet 565

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



- Programmable through ACE software and eV+ language, or through the familiar IEC 61131-3 when using ePLC Connect
- The amplifier and controller built into the robot reduces the number of cables
- 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			Hornet			
			565			
			3 Axis		4 Axis	
			Standard	IP65/67	Standard	IP65/67
Part Number			1720[]-45600	1720[]-45610	1720[]-45604	1720[]-45614
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		eAIB			
	On-board I/O (Input/Output)		12/8			
	Conveyor tracking input		2			
	RS-232C serial communications port		1			
	Programming environment		ACE, ePLC			
	ACE Sight		Yes			
	ePLC Connect		Yes			
	ePLC I/O		Yes			
Connectable controller *2			SmartController EX, NJ/NX/NY Series *3			

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

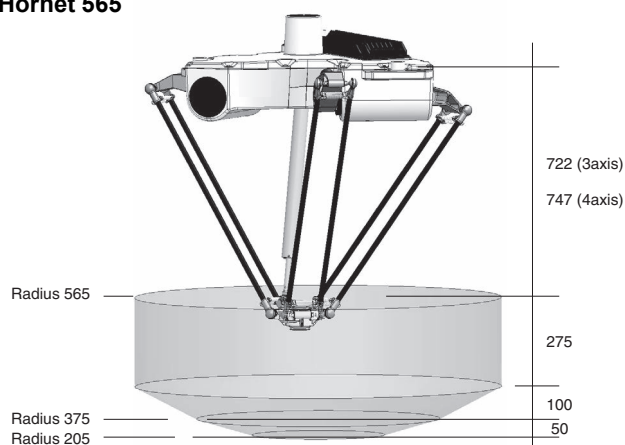
*2. Choose a controller to suit your application.

*3. The robot version 2.3.C or later is required to connect with the NJ/NX/NY Series.

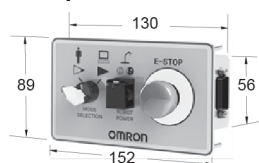
Dimensions

(Unit: mm)

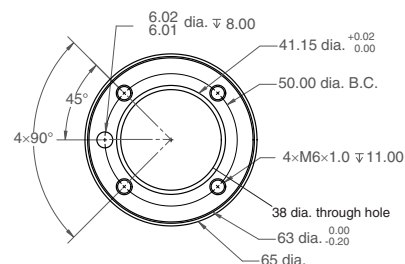
Hornet 565



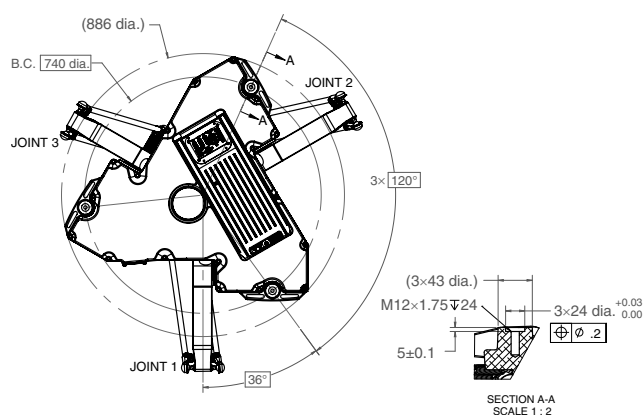
Front panel



Flange



Footprint



Robot Parts Code and Bundled Accessories

Type	Hornet		Hornet Add-On	
IP	Standard	IP65/67	Standard	IP65/67
Hornet 565 3 Axis	17201-45600	17201-45610	17203-45600	17203-45610
Hornet 565 4 Axis	17201-45604	17201-45614	17203-45604	17203-45614
Overview	Robot + eAIB with fully integrated controller		Robot + eAIB required connection cables	
Purpose	Typical for use in single robot system		Typically added to systems with an existing SmartController EX to create multi-robot systems	
Bundled Accessories	- XSYSTEM cable with jumpers, 1.8 m/6 ft (13323-000) - Front panel kit (92546-10358)	- XSYSTEM cable with jumpers, 1.8 m/6 ft (13323-000) - Front panel kit (92546-10358) - Cable Seal Kit (08765-000)	- XSYSTEM cable with jumpers, 1.8 m/6 ft (13323-000) - XSYS cable, 4.5 m/15 ft (11585-000) - DB9 splitter (00411-000) 1394 latch cable, 4.5 m/15 ft (13632-045) - eV+ license to connect to controller (14529-103)	- XSYSTEM cable with jumpers, 1.8 m/6 ft (13323-000) - XSYS cable, 4.5 m/15 ft (11585-000) - DB9 splitter (00411-000) 1394 latch cable, 4.5 m/15 ft (13632-045) - eV+ license to connect to controller (14529-103) - Cable Seal Kit (08765-000)