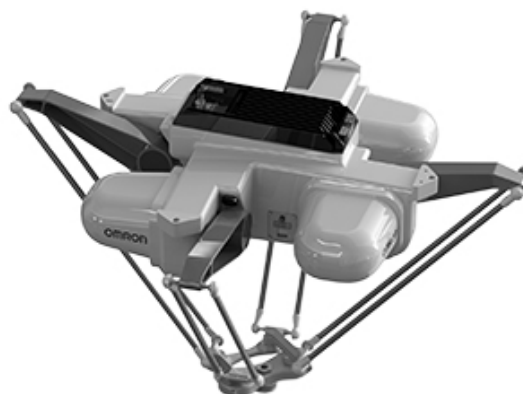


## Four-axis parallel robot achieves high speed and high precision

- EtherCAT connectivity to the Omron NJ501-R controller and programming through the familiar IEC 61131-3 programming language or scripting (eV+).
- Four-axis arm evenly distributes the load on the robot
- Fast and high-precision conveyance and assembly
- Designed with a high payload to support multi-hand (multi-picking)
- Supports fast Pick & Place on a fast conveyor
- Meets the sanitary standards of the United States Department of Agriculture for prevention of product contamination
- Maximum working diameter 1,300 mm
- Working height 500 mm
- Maximum payload 15 kg
- Weight 117 kg



## Specifications

Product name		iX4			
Size		650			
Type		H		HS	
IP		Standard	IP65/67	Standard	
Part Number		RX4-216600[]	RX4-216602[]	RX4-216601[]	
Number of axes		4			
Mounting		inverted			
Working volume	X,Y axis (stroke)	1300 mm			
	Z axis (stroke)	500 mm			
	theta axis (rotation angle)	0° (fixed) (P30)			
		±46.25° (P31)			
±92.5° (P32)					
Maximum Payload		6 kg (P30: 15 kg)		3 kg (P30: 12 kg)	
Repeatability		±0.10 mm			
Cycle times, sustained, at 20°C ambient	Payload 0.1 kg	0.30 s *1, 0.46 s *2		0.39 s *1, 0.55 s *2	
	Payload 1.0 kg	0.36 s *1, 0.47 s *2		0.41 s *1, 0.58 s *2	
	Payload 2.0 kg	0.37 s *1, 0.52 s *2		0.42 s *1, 0.59 s *2	
	Payload 4.0 kg	0.41 s *1, 0.58 s *2		-	
	Payload 6.0 kg	0.43 s *1, 0.61 s *2		-	
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase			
Protection	Base	Topside of robot	IP20	IP65	IP66
		Underside of robot	IP65	IP65	IP66
	Platform, Arms		IP67		
Environment Requirements	Ambient Temperature		1 to 40°C		
	Humidity Range		5 to 90% (non-condensing)		
Weight		117 kg			
USDA-Accepted for meat and poultry processing		---	---	Yes	
Basic configuration	Controller		iCS-ECAT		
	On-board I/O (Input/Output)		12/8		
	Conveyor tracking input		4		
	RS-232C serial communications port		1		
	Programming environment		Sysmac Studio 64-bit		
	ACE Sight		Yes		
	ePLC Connect		No		
Connectable controller		Omron NJ501-R Series			
ePLC I/O		No			

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

\*2. Extended cycle, in mm (25/700/25)

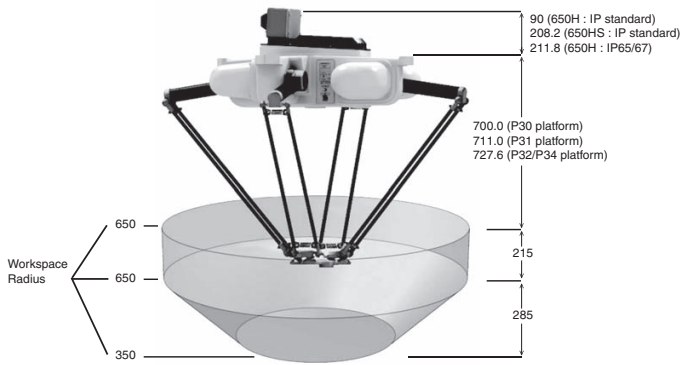
# Dimensions

(Unit: mm)





## iX4-650H/HS

Note: The figure shows the HS type.

### Front panel



Four choices of platform offer different ranges of rotation.

Appearance				
Type	P30	P31	P32	P34
Rotation angle	No rotation	$\pm 46.25^\circ$	$\pm 92.5^\circ$	$\pm 185^\circ$
Maximum Payload	H: 15 kg, HS: 12 kg	H: 6 kg, HS: 3 kg	H: 6 kg, HS: 3 kg	H: 6 kg, HS: 3 kg

Note: The platform appearances of the H type are shown above. The platform of the HS type is made of stainless steel.

## Robot Parts Code and Bundled Accessories

Type	iX4		
	Standard (H)	Standard (HS)	IP65/67
iX4 P30	RX4-2166000	RX4-2166010	RX4-2166020
iX4 P31	RX4-2166001	RX4-2166011	RX4-2166021
iX4 P32	RX4-2166002	RX4-2166012	RX4-2166022
iX4 P34	RX4-2166004	RX4-2166014	RX4-2166024
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"> <li>XSYSTEM cable with jumpers and Ethernet Management port, 1.8 m/6 ft (13323-100)</li> <li>Front panel kit (92546-10358)</li> </ul>		

## Four-axis parallel robot achieves high speed and high precision

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- Supports fast Pick & Place on a fast conveyor
- Meets the sanitary standards of the United States Department of Agriculture for prevention of product contamination
- Maximum working diameter 1,600 mm
- Working height 500 mm
- Maximum payload 10 kg
- Weight 117 kg



## Specifications

Product name		iX4			
Size		800			
Type		H		HS	
IP		Standard	IP65/67	Standard	
Part Number		RX4-216630[]	RX4-216632[]	RX4-216631[]	
Number of axes		4			
Mounting		inverted			
Working volume	X,Y axis (stroke)	1600 mm			
	Z axis (stroke)	500 mm			
	theta axis (rotation angle)	0° (fixed) (P30)			
		±46.25° (P31)			
±92.5° (P32)					
±185° (P34)					
Maximum Payload		4 kg (P30:10 kg)	1 kg (P30: 7 kg)		
Repeatability		±0.10 mm			
Cycle times, sustained (at 20°C ambient)	Payload 0.1 kg	0.33 s *1, 0.48 s *2		-	
	Payload 1.0 kg	0.38 s *1, 0.50 s *2		0.45 s *1, 0.62 s *2	
	Payload 2.0 kg	0.40 s *1, 0.55 s *2		-	
	Payload 4.0 kg	0.45 s *1, 0.62 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
		Underside of robot	IP65	IP65	IP66
	Platform, Arms		IP67		
Environment Requirements	Ambient Temperature		1 to 40°C		
	Humidity Range		5 to 90% (non-condensing)		
USDA-Accepted for meat and poultry processing		---	---	Yes	
Weight		117 kg			
Basic configuration	Controller		iCS-ECAT		
	On-board I/O (Input/Output)		12/8		
	Conveyor tracking input		4		
	RS-232C serial communications port		1		
	Programming environment		Sysmac Studio 64-bit		
	ACE Sight		Yes		
	ePLC Connect		No		
ePLC I/O		No			
Connectable controller		Omron NJ501-R Series			

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

\*2. Extended cycle, in mm (25/700/25)

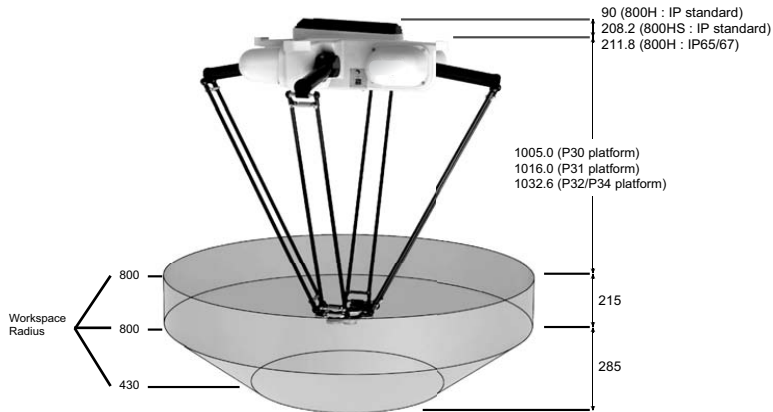
# Dimensions

(Unit: mm)





## iX4-800H/HS

Note: The figure shows the H type.

### Front panel



Four choices of platform offer different ranges of rotation.

Appearance				
Type	P30	P31	P32	P34
Rotation angle	No rotation	$\pm 46.25^\circ$	$\pm 92.5^\circ$	$\pm 185^\circ$
Maximum Payload	H: 10 kg, HS: 7 kg	H: 4 kg, HS: 1 kg	H: 4 kg, HS: 1 kg	H: 4 kg, HS: 1 kg

Note: The platform appearances of the H type are shown above. The platform of the HS type is made of stainless steel.

## Robot Parts Code and Bundled Accessories

Type	ix4		
	Standard (H)	Standard (HS)	IP65/67
ix4 P30	RX4-2166300	RX4-2166310	RX4-2166320
ix4 P31	RX4-2166301	RX4-2166311	RX4-2166321
ix4 P32	RX4-2166302	RX4-2166312	RX4-2166322
ix4 P34	RX4-2166304	RX4-2166314	RX4-2166324
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"> <li>XSYSTEM cable with jumpers and Ethernet Management port, 1.8 m/6 ft (13323-100)</li> <li>Front panel kit (92546-10358)</li> </ul>		