

Quattro 800H

Four-axis parallel robot achieves high speed and high precision

- Ethernet capability to control the robot through the familiar programming language (IEC 61131-3) of Machine Automation controller NJ/NX series
- 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
- Maximum working diameter 1,600 mm
- Working height 500 mm
- Maximum payload 10 kg
- Weight 117 kg
- Protection IP65 (with optional cable sealing kit)



Specifications

Product name		Quattro
	Size	800
	Type	H
Model		1720□-2630□
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)
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
	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	IP65 (with optional cable sealing kit)
	Tooling	IP67
Environment Requirements	Ambient Temperature	1 to 40°C
	Humidity Range	5 to 90% (non-condensing)
Weight		117 kg
Basic configuration	Controller	SmartController EX
	On-board I/O (Input/Output)	12/8
	Conveyor tracking input	4
	RS-232C serial communications port	3
	Programming environment	ACE, PackXpert, PLC
	ePLC Connect	Yes
	ePLC I/O	Yes
Connectable controller *3		SmartController EX, NJ/NX Series *4

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

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

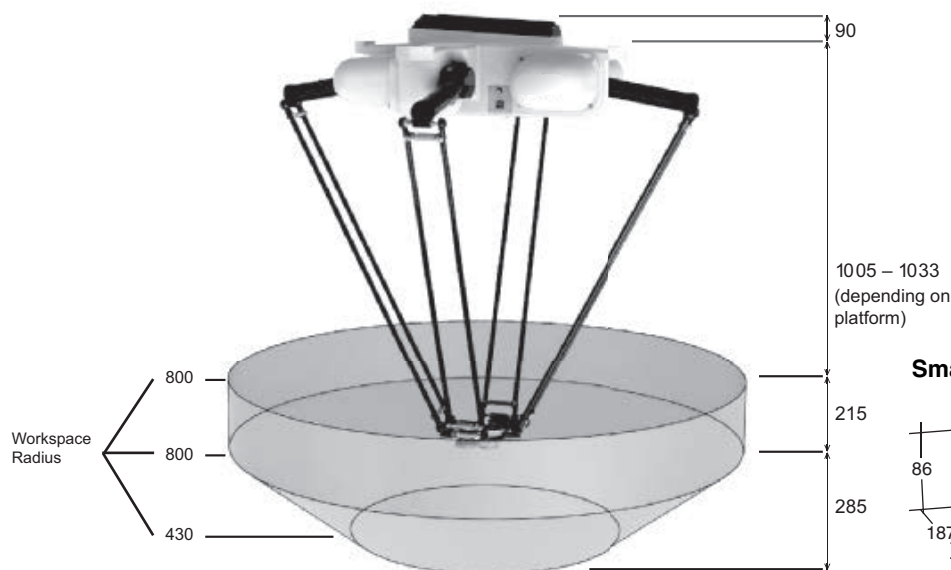
*3. Choose a controller to suit your application.

*4. The robot version 2.3.C is required to connect with the NX/NJ Series.

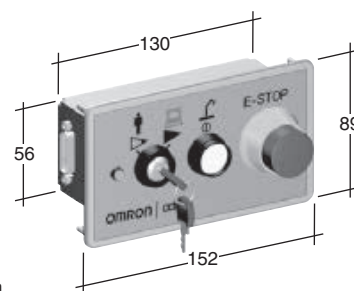
Dimensions

(Unit: mm)

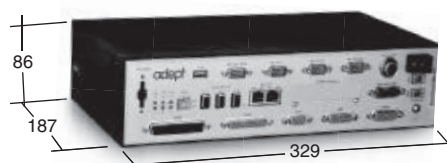
Quattro 800H







Front panel



SmartController EX



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	10 Kg	4 Kg	4 Kg	4 Kg

Robot Parts Code and Bundled Accessories

Type	Quattro with EX Controller	Quattro Add-On
Quattro 800H P30	17204-26300	17203-26300
Quattro 800H P31	17204-26301	17203-26301
Quattro 800H P32	17204-26302	17203-26302
Quattro 800H P34	17204-26304	17203-26304
Overview	Robot + eAIB+ SmartController EX + required connection cables	Robot + eAIB + required connection cables
Purpose	Typical for use in single robot system and multi-robot systems.	Typically added to systems with an existing SmartController EX to create multi-robot systems
Bundled Accessories	<ul style="list-style-type: none"> XSYS cable with jumpers, 2m/6ft (13323-000) SmartController EX (09200-000) XSYS cable, 5m/15 ft (11585-000) 1394 latch cable, 5m/15 ft, 13632-045) Front panel kit (90356-10358) eV+ license to connect to controller (14529-103) 	<ul style="list-style-type: none"> XSYS cable with jumpers, 2m/6ft (13323-000) XSYS cable, 5m/15 ft (11585-000) DB9 splitter (00411-000) 1394 latch cable, 5m/15 ft, 13632-045) eV+ license to connect to controller (14529-103)

Note: OMRON also provides other types of model. Ask your OMRON sales representative for details.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.