

# 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

<b>Product name</b>		<b>Quattro</b>
	<b>Size</b>	<b>800</b>
	<b>Type</b>	<b>H</b>
<b>Model</b>		1721□-2630□
<b>Number of axes</b>		4
<b>Mounting</b>		inverted
<b>Working volume</b>	<b>X,Y axis (stroke)</b>	1600 mm
	<b>Z axis (stroke)</b>	500 mm
	<b>theta axis (rotation angle)</b>	0° (fixed) (P30)
		±46.25° (P31)
±92.5° (P32)		
±185° (P34)		
<b>Maximum Payload</b>		4 kg (P30:10 kg)
<b>Repeatability</b>		±0.10 mm
<b>Cycle times, sustained (at 20°C ambient)</b>	<b>Payload 0.1 kg</b>	0.33 s *1, 0.48 s *2
	<b>Payload 1.0 kg</b>	0.38 s *1, 0.50 s *2
	<b>Payload 2.0 kg</b>	0.40 s *1, 0.55 s *2
	<b>Payload 4.0 kg</b>	0.45 s *1, 0.62 s *2
<b>Power Requirements</b>		24 VDC: 11 A (eAIB, SmartController) 200 to 240 VAC: 10 A, single-phase
<b>Protection</b>	<b>Base</b>	IP65 (with optional cable sealing kit)
	<b>Tooling</b>	IP67
<b>Environment Requirements</b>	<b>Ambient Temperature</b>	1 to 40°C
	<b>Humidity Range</b>	5 to 90% (non-condensing)
<b>Weight</b>		117 kg
<b>Basic configuration</b>	<b>Controller</b>	SmartController EX
	<b>On-board I/O (Input/Output)</b>	12/8
	<b>Conveyor tracking input</b>	4
	<b>RS-232C serial communications port</b>	3
	<b>Programming environment</b>	ACE, PackXpert, PLC
	<b>ACE Sight</b>	Yes
	<b>ePLC Connect</b>	Yes
<b>Connectable controller *3</b>		SmartController EX, NJ/NX Series *4

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

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

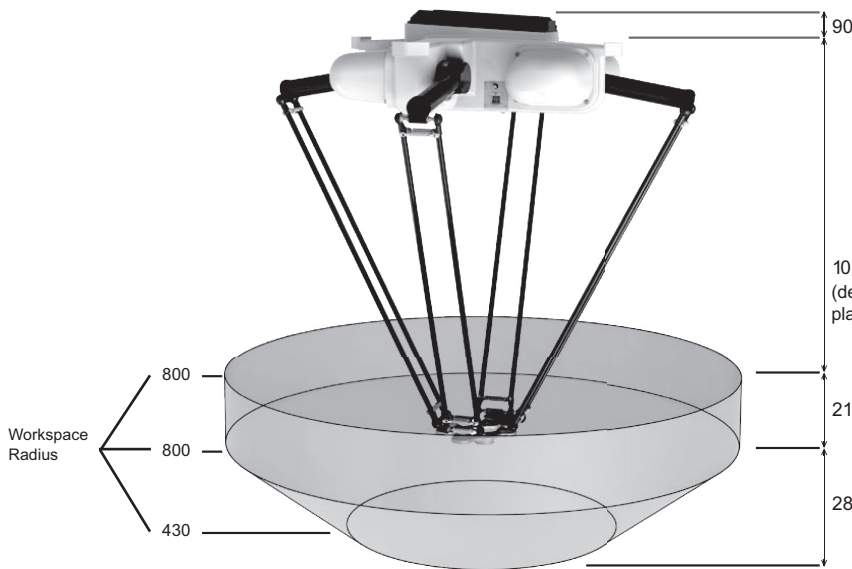
\*3. Choose a controller to suit your application.

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

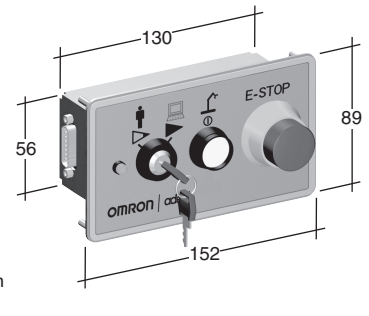
# Dimensions

(Unit: mm)

## Quattro 800H

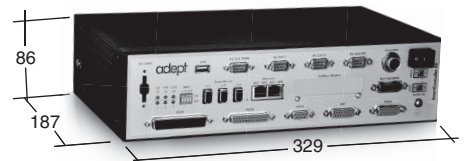


## Front panel







1005 – 1033  
(depending on platform)

## 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	17214-26300	17213-26300
Quattro 800H P31	17214-26301	17213-26301
Quattro 800H P32	17214-26302	17213-26302
Quattro 800H P34	17214-26304	17213-26304
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"> <li>XSYS cable with jumpers, 2m/6ft (13323-000)</li> <li>SmartController EX (09200-000)</li> <li>XSYS cable, 5m/15 ft (11585-000)</li> <li>1394 latch cable, 5m/15 ft, 13632-045)</li> <li>Front panel kit (90356-10358)</li> <li>eV+ license to connect to controller (14529-103)</li> </ul>	<ul style="list-style-type: none"> <li>XSYS cable with jumpers, 2m/6ft (13323-000)</li> <li>XSYS cable, 5m/15 ft (11585-000)</li> <li>DB9 splitter (00411-000)</li> <li>1394 latch cable, 5m/15 ft, 13632-045)</li> <li>eV+ license to connect to controller (14529-103)</li> </ul>

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