Quattro 800H/HS

Four-axis parallel robot achieves high speed and high precision

- Programmable through ACE software and eV+ language, or through the familiar IEC 61131-3 when using ePLC Connect
- 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 1,600 mm
- Working height 500 mm
- Maximum payload 10 kg
- Weight 117 kg

Specifications

Product name			Quattro		
	Size		800		
	Type		H		HS
	IP		Standard	IP65/67	Standard
Part Number			1721[ ]-2630[ ]	1720[ ]-2632[ ]	1721[ ]-2631[ ]
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		SmartController EX		
	On-board I/O (Input/Output)		12/8		
	Conveyor tracking input		4		
	RS-232C serial communications port		3		
	Programming environment		ACE, ePLC		
	ACE Sight		Yes		
	ePLC Connect		Yes		
	ePLC I/O		Yes		
Connectable controller *3			SmartController EX, NJ/NX/NY Series *4		

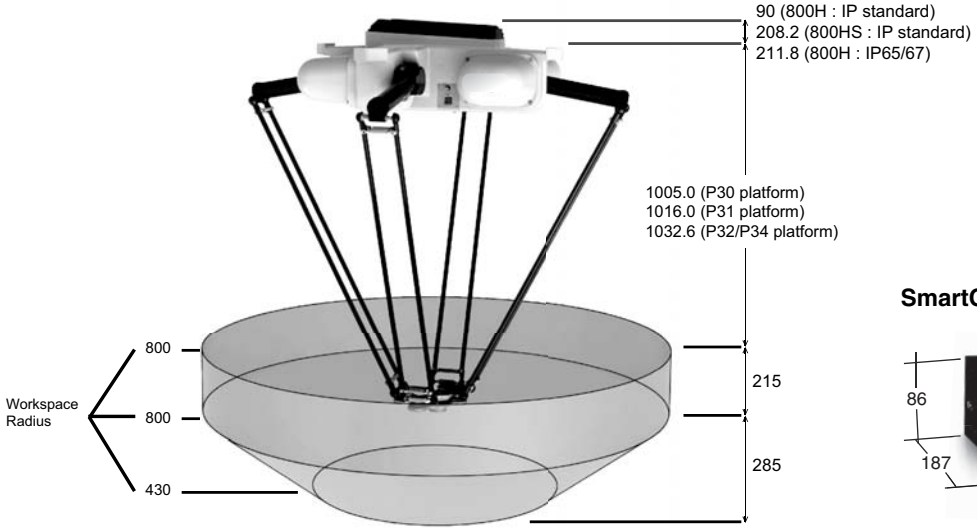
*1. Adept cycle, in mm (25/305/25)
*2. Extended cycle, in mm (25/700/25)
*3. Choose a controller to suit your application.
*4. The robot version 2.3.C or later is required to connect with the NJ/NX/NY Series.

Dimensions

(Unit: mm)

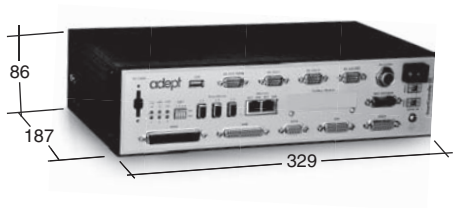
Quattro 800H/HS

Note: The figure shows the H type.



Front panel

SmartController EX



Four choices of platform offer different ranges of rotation.

Appearance				
Type	P30	P31	P32	P34
Rotation angle	No rotation	±46.25°	± 92.5°	±185°
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	Quattro with EX Controller			Quattro Add-On		
IP	**Standard (H)**	**Standard (HS)**	**IP65/67**	**Standard (H)**	**Standard (HS)**	**IP65/67**
Quattro P30	17214-26300	17214-26310	17214-26320	17213-26300	17213-26310	17213-26320
Quattro P31	17214-26301	17214-26311	17214-26321	17213-26301	17213-26311	17213-26321
Quattro P32	17214-26302	17214-26312	17214-26322	17213-26302	17213-26312	17213-26322
Quattro P34	17214-26304	17214-26314	17214-26324	17213-26304	17213-26314	17213-26324
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	• SmartController EX (09200-000) • XSYS cable, 4.5 m/15 ft (11585-000) • 1394 latch cable, 4.5 m/15 ft (13632-045) • Front panel kit (90356-10358) • eV+ license to connect to controller (14529-103)	• SmartController EX (09200-000) • XSYS cable, 4.5 m/15 ft (11585-000) • 1394 latch cable, 4.5 m/15 ft (13632-045) • Front panel kit (90356-10358) • eV+ license to connect to controller (14529-103) • Cable Seal Kit (09564-000)	• SmartController EX (09200-000) • XSYS cable, 4.5 m/15 ft (11585-000) • 1394 latch cable, 4.5 m/15 ft (13632-045) • Front panel kit (90356-10358) • eV+ license to connect to controller (14529-103) • Cable Seal Kit (08765-000)	• 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)	• 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 (09564-000)	• 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)