

Adept Quattro ePLC800H



Allen-Bradley PLC



Siemens PLC

The Adept Quattro™ ePLC800H robot has a reach of 1.6m and is intended for high-speed applications in picking, packing, assembly and material handling. Adept's ePLC robots natively run Adept ePLC Connect™ software, which allows them to communicate directly with an existing Programmable Logic Controller (PLC) without the use of a separate external controller. This ePLC configuration allows users to install, program, operate and support our high-performance robots using the familiar interface of their existing PLC. Adept ePLC robots are designed to provide significant cost and time savings for users with new or existing PLC automation systems.

Product Benefits

- Lower system cost due to controller-less operation
- Rapid deployment using familiar ladder logic programming languages of existing PLC (IEC 61131-3)
- Maximum facility utilization with the most compact system footprint in the industry
- Increased facility safety and lower cost with minimal power and signal cabling requirements

Product Features

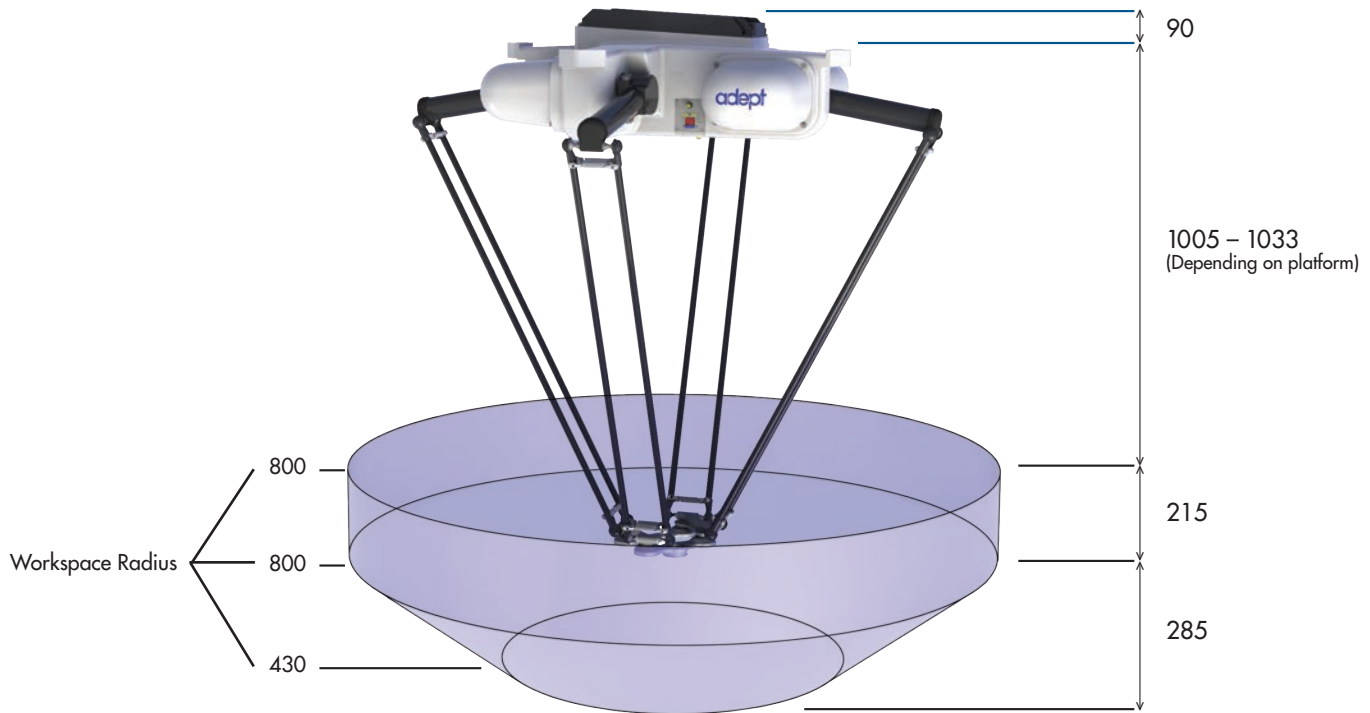
- Compatible with 1756 ControllLogix® or Compact Logix™ (by Allen-Bradley) and S7-300 SIMATIC (by Siemens) PLCs
- High-resolution, absolute encoders to provide high accuracy, superior slow-speed following, and easy calibration
- 8 kHz servo update rate to improve path following and control
- Integrated 10/100 Base-T Ethernet for EtherNet/IP™ communication
- Extended reach up to 1.6m diameter and 500mm Z-axis

Specifications

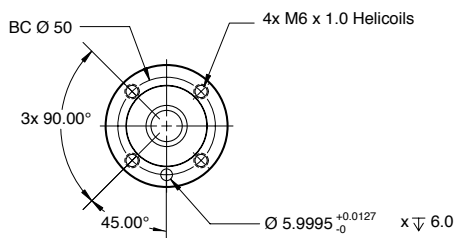
Number of Axes	4	
Payload	Rated	2 kg
	Max.	4 kg (Up to 10kg with P30)
Max Working Range (see diagram for details)		
Diameter	1600 mm	
Height	500 mm	
Rotation	0° (fixed) (P30)	
(platform dependent)	± 46.25° (P31)	
	± 92.5° (P32)	
	± 185° (P34)	
Repeatability	± 0.15 mm	
	(Uni-directional)	
	± 0.2°, 0.6°	
	(P31, P34)	
Max. Speed	10 m/s	
	3600°/s	
Max. Acceleration	120 m/s ²	
Robot Cycle Times, sustained (seconds, at 20°C ambient)		
Payload	Std. Cycle*	Ext'd. Cycle**
0.1 kg	0.33	0.48
1.0 kg	0.38	0.50
2.0 kg	0.40	0.55
4.0 kg	0.45	0.62
* Adept Cycle, in mm (25/305/25)		
** Extended Cycle, in mm (25/700/25)		
Digital I/O Channels		
eAIB:	12 inputs, 8 outputs	
Power Requirements		
24 VDC : 6A		
200 - 240 VAC : 10A, single-phase		
Ingress Protection		
Base: IP-65 (with optional cable sealing kit)		
Tooling Area: IP-67		
Mounting	Inverted	
Environmental Requirements		
Ambient Temperature	1 - 40 °C	
Humidity Range	5 - 90 %	
	(non-condensing)	
Weight	117 kg	
CE Compliant		

ADEPT QUATTRO ePLC800H

Dimensions: Adept Quattro ePLC800H (mm)



Dimensions: Flange (mm)



The Adept Quattro ePLC800H system includes the following:

- Adept Quattro ePLC800H robot with eAIB (Amplifiers In Base)
- Rotational Tooling: P30 (fixed), P31, P32, or P34
- Front panel with E-Stop
- Adept ACET™ software and documentation
- User documentation
- Cables to connect E-Stop and other peripherals

Options and Peripherals:

- AdeptSight™ vision software
- T20 manual control pendant
- IP-65 cable-seal kit

Optional T20 Manual Control Pendant:



Downloads:

Download CAD files for the Adept Quattro ePLC800H robot from <http://www.adept.com/support/downloads/file-search>



Adept Technology, Inc. 5960 Inglewood Drive, Pleasanton, CA 94588

Tel: 925-245-3400 Fax: 925-960-0452 Email: info@adept.com

www.adept.com

Specifications subject to change without notice.

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