

Adept Quattro s800H



The Adept Quattro s800H is a high speed and high performance parallel robot with an extended-reach of 1.6 m, designed for high-speed applications in picking, packing, assembly, and material handling. The patented four-arm design, advanced control algorithms, and large work envelope make the Quattro s800H the ideal overhead-mount robot for smooth motion, high-throughput applications. The Quattro s800H is powered by ultra-compact controls and embedded amplifiers, minimizing the footprint.

Product Functionality

- Extended reach up to 1.6 m diameter and 500 mm Z-axis
- Ease-of-cleaning design includes smooth surfaces and sealed mechanisms
- Deploy your applications through a user-friendly interface
- High-accuracy, high-speed, superior-tracking performance, and simple calibration
- Control the robot through a PC, PLC, or embedded software
- Seamless integration of vision-guidance and conveyor-tracking options
- Compact controls and embedded amplifiers give a small footprint and easy integration
- Toolless removal of arms reduces time required for cleaning



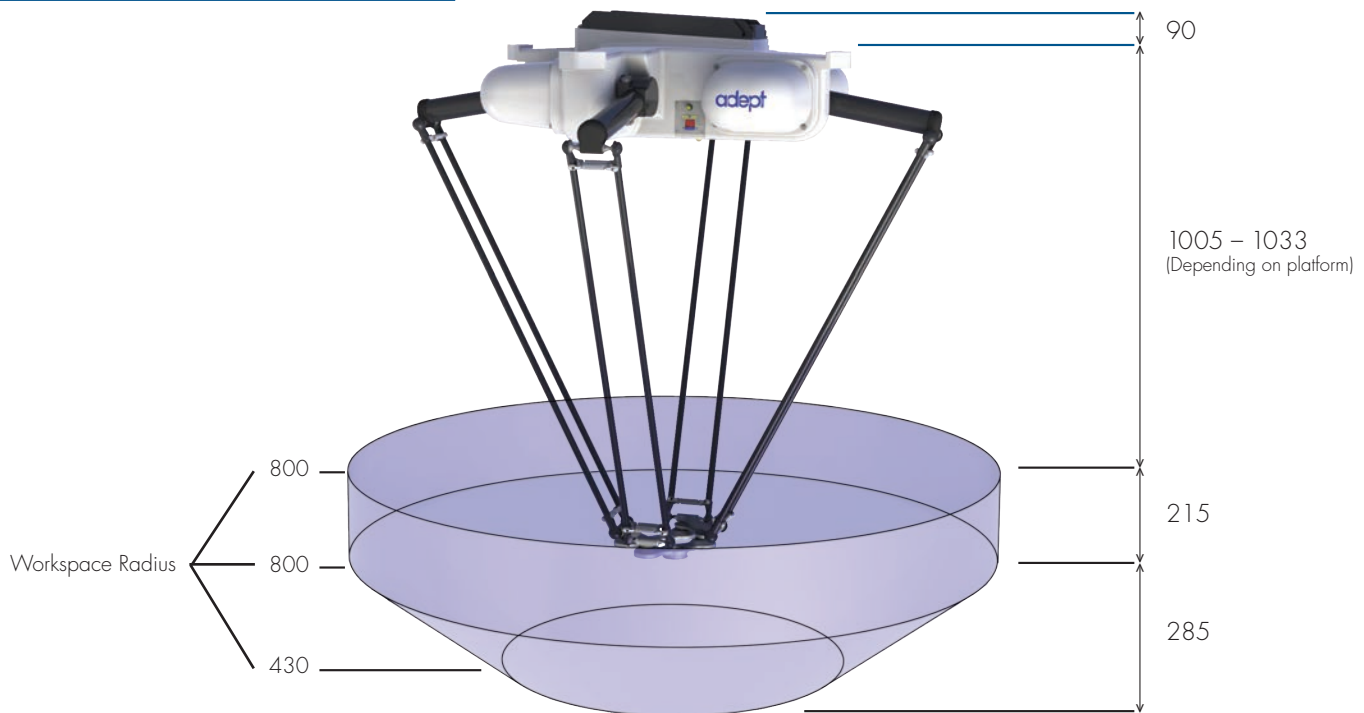
The Adept Quattro s800H parallel robot comes with the high-performance Adept SmartController™ motion controller, which is based on the Adept SmartServo architecture. It has a small footprint of 329w x 187d x 86h mm.

Specifications

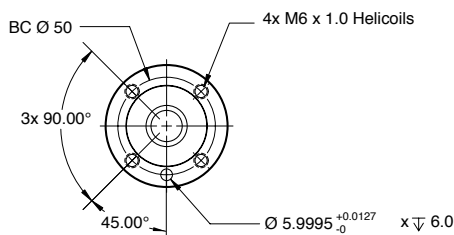
Number of Axes	4	
Payload	Rated	2 kg
	Max.	4 kg
Working Range	Diameter	1600 mm
	Height	500 mm
	Rotation	0° (fixed) (P30)
	(platform dependent)	± 46.25° (P31) ± 92.5° (P32) ± 185° (P34)
Repeatability	± 0.15 mm (Uni-directional)	
Max. Speed	10 m/s	
Max. Acceleration	120 m/s ²	
Robot Cycle Times, sustained (seconds, at 20°C ambient)		
Payload	Std. Cycle*	Ext. 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)		
Power Requirements		
24 VDC : 11 A (eAIB, SmartController)		
200 to 240 VAC : 10 A, single-phase		
Protection		
Base: IP-65 (with optional cable sealing kit)		
Tooling: IP-67		
Mounting	Inverted	
Environmental Requirements		
Ambient Temperature	1 - 40 °C	
Humidity Range	5 - 90 % (non-condensing)	
Weight	117 kg	
CE Compliant		

ADEPT QUATTRO S800H

Dimensions: Adept Quattro s800H (mm)



Dimensions: Flange (mm)



The Adept Quattro s800H system includes the following:

- Adept Quattro s800H robot with eAIB (Amplifiers in Base)
- Adept SmartController™ motion controller (with V+ software installed)
- Rotational Tooling: P30 (fixed), P31, P32, or P34
- Front Panel with E-Stop
- Adept ACE™ software and documentation
- User documentation

Downloads:

Download CAD files for the Adept Quattro s800H robot from <http://www.adept.com/support/downloads/file-search>

Options and Peripherals:

- ACE AdeptSight™ vision software
- Adept SmartVision™ EX vision processor
- ACE PackXpert™ packaging software with vision
- Dual-robot configuration option
- T20 manual control pendant
- sMI6 SmartMotion™ interface
- sDIO I/O expansion (32 digital input and output channels each)
- IP-65 cable-seal kit



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Specifications subject to change without notice.

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