

Adept Quattro™ s650H



Specifications

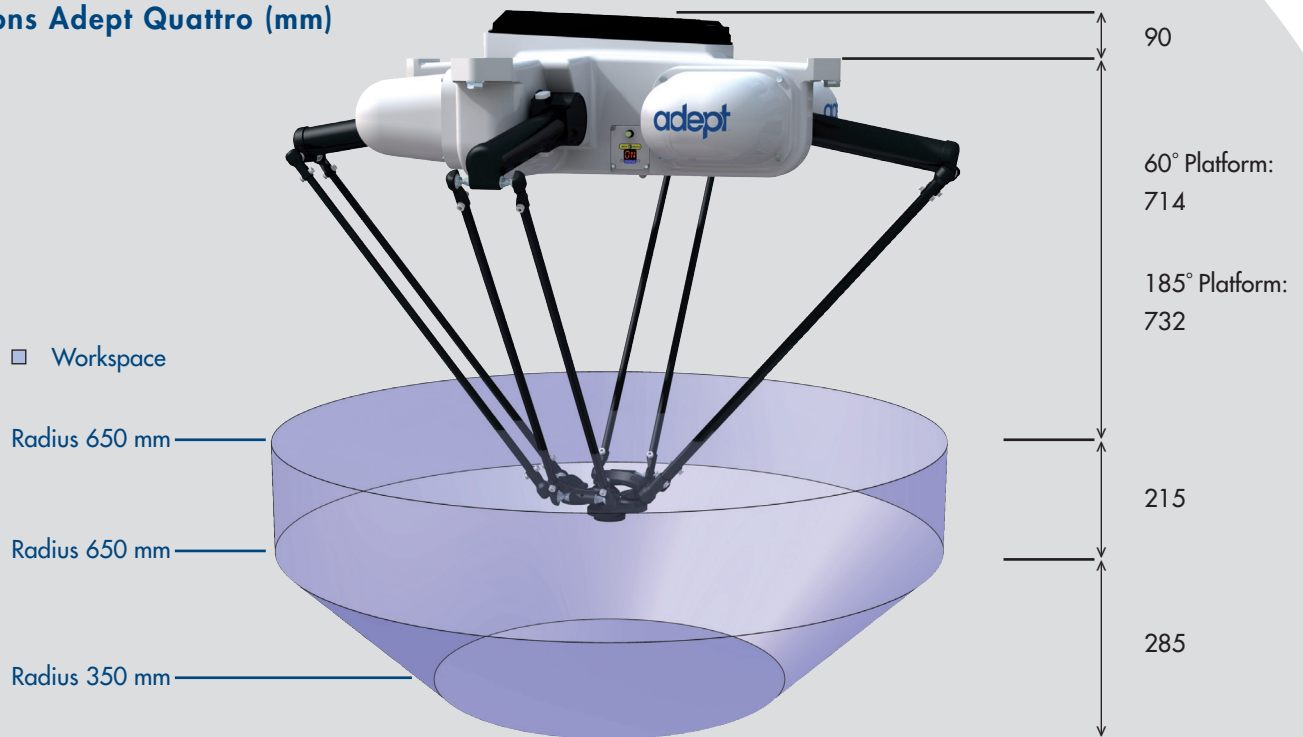
Number of Axes	4	
Payload		
Rated	2 kg	
Max.	6 kg	
Working Range		
Diameter	1300 mm	
Height	500 mm	
Rotation	± 60° or ± 185°	
Repeatability	± 0.1 mm	
(Uni-directional)		
Max. Speed	10 m/s	
Max. Acceleration	150 m/s ²	
Robot Cycle Times, sustained (seconds, at 20°C ambient)		
Payload	Std. Cycle*	Extd. Cycle**
0.1 kg	0.30	0.46
1.0 kg	0.36	0.47
2.0 kg	0.37	0.52
4.0 kg	0.41	0.58
6.0 kg	0.43	0.61
* Adept Cycle, in mm (25/305/25)		
** Extended Cycle, in mm (40/700/40)		
Power Requirement (user-supplied)		
24 VDC (± 10%)		
200 to 240 VAC, 1-phase 50/60Hz		
Protection		
Base: IP-66 (with optional cable sealing kit)		
Platform: IP-67		
Mounting	Inverted	
Environmental Requirements		
Ambient Temperature	1 - 40 °C	
Humidity Range	5 - 90 %	
Weight	111 kg	
CE Compliant		

The Adept Quattro™ s650H is a parallel robot specifically designed for high-speed manufacturing, packaging, material handling, and assembly. It is the only robot in the world that features a four-arm rotational platform. This is designed for maximum speed, maximum acceleration, and exceptional performance across the entire work envelope. Powerful compact controls and embedded amplifiers make installation easy and reduce workspace requirements. The high speed and precision of the Quattro robot make it the perfect choice for flexible and fast packaging, material handling, kitting, and assembly applications.

Features	Benefits
Patented four-arm design	Consistent speeds for higher throughput
High payload capacity	Increased versatility for wider range of product handling
Robust components and design	Reduced maintenance costs with maximum uptime
Distributed SmartServo architecture	Decreased integration costs
Conveyor tracking with integrated vision guidance	Ensures accurate part location for increased yields
Embedded amplifiers and compact controls	Maximize space efficiency
Works with Adept ACE™ software	Simplifies development for faster time to market

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Dimensions Adept Quattro (mm)



The Adept Quattro system includes the following:

- Adept Quattro robot with AIB (Amplifiers in Base)
- Adept SmartController™ CX controller (with software installed)
- Choice of 60 or 185 degree Rotational Platform
- Front Panel with E-Stop
- AdeptWindows
- Ethernet TCP/IP capability
- User Documentation

Options:

- ACE PackXpert™ application development software
- AdeptSight™ 3.0 vision guidance and inspection system (requires a PC*)
 - * Adept recommends using the Adept SmartVision™ EX Cameras provided by Adept or customer-provided
- V+ Extensions License for Conveyor Tracking
- T2 Pendant
- IP-66 Cable-Seal Kit

The user must supply the following:

- Power to SmartController (DC)
- Power to AIB (AC and DC)
- Cell-based emergency-stop wiring
- End-effector
- Frame (for mounting the Adept Quattro robot)



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Specifications subject to change without notice.

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