

Adept Quattro™ s650H



Specifications

Number of Axes	4	
Payload	Rated	2 kg
	Max.	6 kg
Working Range	Diameter	1300 mm
	Height	500 mm
	Rotation (platform dependent)	0° (fixed) (P30) ± 46.25° (P31) ± 92.5° (P32) ± 185° (P34)
	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 (25/700/25)		
Power Requirements		
24 VDC : 5 A – Adept SmartController		
24 VDC : 6 A – AIB		
200 to 240 VAC : 10 A, single-phase		
Protection		
Base: IP-65 (with optional cable sealing kit)		
Platform: IP-67		
Mounting	Inverted	
Environmental Requirements		
Ambient Temperature	1 - 40 °C	
Humidity Range	5 - 90 % (non-condensing)	
Weight	117 kg	
CE Compliant		

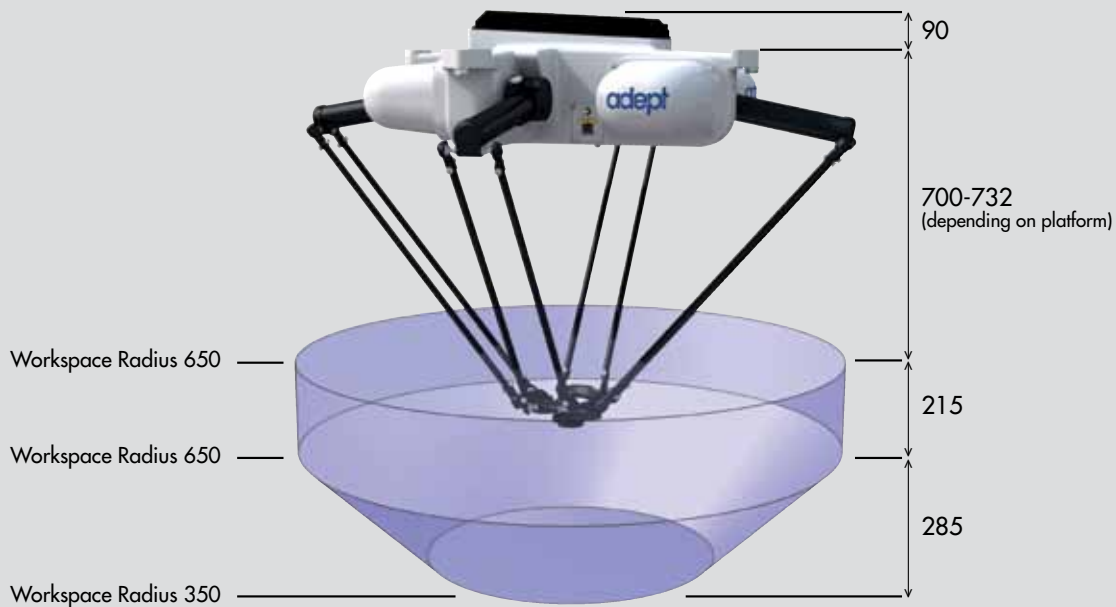
The Adept Quattro s650H is a parallel robot specifically designed for high-speed applications in packaging, manufacturing, assembly, and material handling. The patented four-arm design, advanced control algorithms, and large work envelope make the Adept Quattro the ideal overhead-mount robot for smooth motion, high-throughput applications. The Adept Quattro is powered by ultra-compact controls and embedded amplifiers, which reduces the cycle time and improves footprint efficiency.

Product Features and Benefits

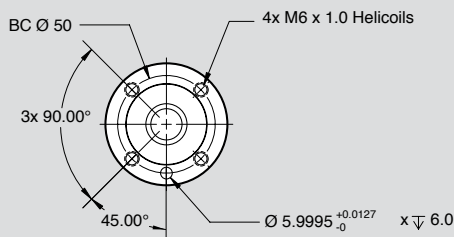
- Patented four-arm design delivers consistent speeds for higher throughputs
- Robust components and design reduce maintenance costs with maximum uptime
- Distributed SmartServo architecture decreases integration costs
- Conveyor tracking with integrated vision guidance ensures accurate part location for increased yields
- High-resolution, absolute encoders provide high accuracy, superior slow-speed following, and easy calibration
- High-efficiency, low-inertia drives and lightweight arms deliver maximum acceleration
- 8 kHz servo update rate for improved path-following and control
- Integrated temperature sensors monitor heat in servo motors to prevent damage
- Diagnostic display on robot enables faster troubleshooting
- Embedded amplifiers and compact controls maximizes space efficiency
- Adept ACE™ software simplifies development for faster time to market
- Ethernet TCP/IP and DeviceNet capabilities

Adept Quattro s650H

Dimensions: Adept Quattro s650H (mm)



Dimensions: Flange (mm)



The Adept Quattro system includes the following:

- Adept Quattro robot with AIB (Amplifiers in Base)
- Adept SmartController™ motion controller (with V+ software installed)
- P30 (fixed), P31, P32, or P34 rotational platform
- Front Panel with E-Stop
- Adept ACE software
- User documentation

The user must supply the following:

- Power to SmartController motion controller (DC)
- Power to AIB (AC and DC)
- Emergency-stop wiring at each workcell
- End-effector
- Frame (for mounting the Adept Quattro robot)

Options:

- ACE PackXpert™ application development software
- AdeptSight™ 3.0 vision guidance and inspection system (requires a PC – Adept recommends using the Adept SmartVision™ EX vision processor)
- Cameras for vision guidance
- V+ Extensions license for conveyor tracking
- T2 manual control pendant
- IP-65 Cable-Seal Kit



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.

©2010 Adept Technology, Inc. ALL RIGHTS RESERVED. The information provided in this communication or document is the property of Adept Technology, Inc. and is protected by copyright and other intellectual property laws. In addition, any references to any Adept Technology, Inc. products are the marks and property of Adept Technology, Inc. [and may be registered trademarks]. All other trademarks or tradenames are the property of their respective holders.