

Adept Quattro™



Specifications

Number of axes	4
Payload (rated, max)	2 kg
Working Range	
Diameter	1300 mm
Height	250 + 250 mm
Rotation	± 180°
Repeatability	
Position	± 0.1 mm
Angular	± 0.4°
Max.. Speed	10 m/s
Max. Acceleration (appr.)	150 m/s ²
Max. torque axis 4	10 Nm
Robot cycle times (Typical)	
Payload (kg)	Cycle Time* (s)
0.1	0.26
0.5	0.29
1.5	0.32
2.0	0.50
* Adept Cycle in mm (25/305/25)	
Power Requirement (User Supplied)	
24VDC (+/- 10%)	
200V to 240V AC, 1-phase, 50/60Hz	
Protection	
IP55/IP65 (robot base and inner arms)	
Mounting	Inverted
Environmental Requirements	
Ambient Temperature	1 - 40 °C
Humidity Range	5 - 90 %
CE compliant	
UL compliant	

The Adept Quattro is a parallel robot specifically designed for high speed packaging and material handling. It is the only robot in the world that features a unique 4 arm design for highest speeds, high acceleration and exceptional performance across the entire work envelope. In addition, the powerful amplifiers and controls are built into the robot, making installation easy and reducing workspace. The high speed and precision of the Quattro robot make it a perfect choice for flexible and productive “one at a time” packaging, material handling, kitting and assembly applications.

Product Features

- 4 parallel arm structure for high speeds
- 2 kg rated payload
- High-efficiency motors deliver high performance with more torque per amp
- Large 1300 mm work envelope
- Total of 500 mm Z stroke
- Embedded SmartServo controls
- High repeatability and precision
- High-resolution encoders provide high precision and superior slow-speed following

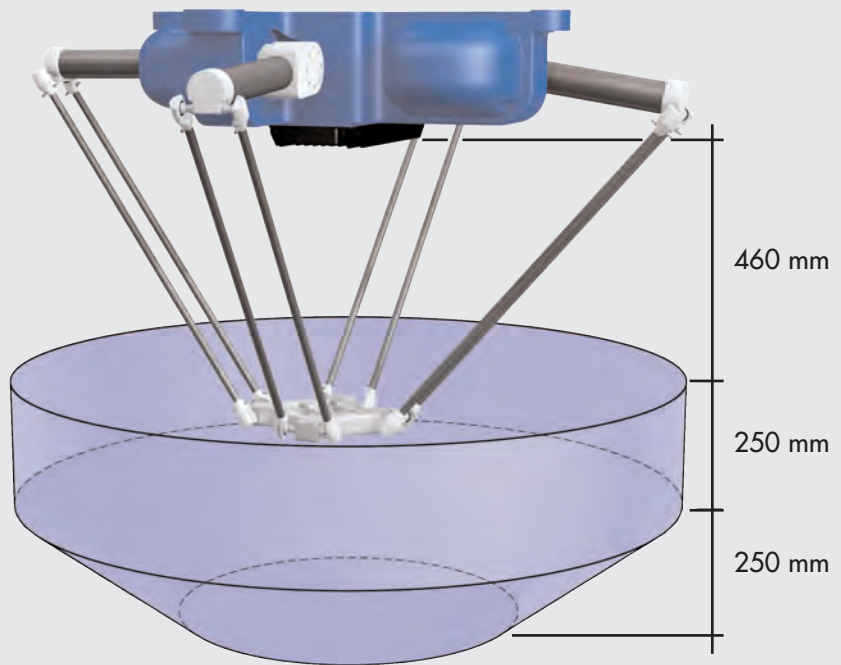
Benefits

- Consistent speeds across entire work envelope increases productivity and reliability
- Ensures system reliability and high production uptime
- Enables high product mix and changeover
- Reduces integration costs
- Accelerates time to market
- Cabling and workspace savings through integrated controls and amplifiers
- Provides increased flexibility and accuracy through integrated vision guidance



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Dimension Adept Quattro



- Workspace:
 - Radius 650 mm
 - Radius 350 mm
 - Height 500 mm

Adept Quattro system includes:

- Adept Quattro robot with AIB (Amplifiers in Base)
- Adept SmartController CX controller (with software installed)
- Front Panel with E-Stop
- AdeptWindows Software
- Network File Server (NFS) software
- Ethernet TCP/IP capability
- User Documentation

Options:

- AdeptDesktop
- AdeptVision: either sAVI or AdeptSight (requires a PC for programming)
- V+ Extensions License for Conveyor Tracking

The user must supply the following items:

- Power to SmartController CX and AIB
- Cell-based emergency stop wiring
- Windows™-based PC (not required at run-time)



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Specifications subject to change without notice.

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