

Adept Quattro™ s650H



Specifications

| | | |
|---|----------------------|---------------|
| Number of Axes | 4 | |
| Payload (rated, max) | 6 kg | |
| Working Range | | |
| Diameter | 1300 mm | |
| Height (std./max.) | 215 mm/500 mm | |
| Rotation | ± 60° or ± 185° | |
| Repeatability | | |
| Platform | 60° | 185° |
| Position | ± 0.1 mm | ± 0.1 mm |
| Max. Speed | 10 m/s | |
| Max. Acceleration (appr.) | 150 m/s ² | |
| Robot Cycle Times, sustained (seconds) | | |
| Payload (kg) | Std. Cycle* | Extd. Cycle** |
| 0.1 | 0.30 | 0.46 |
| 1.0 | 0.36 | 0.47 |
| 2.0 | 0.37 | 0.52 |
| 4.0 | 0.41 | 0.58 |
| 6.0 | 0.43 | 0.61 |
| * Adept Cycle in mm (25/305/25) | | |
| ** Extended Cycle in mm (40/700/40) | | |
| (at 20°C ambient) | | |
| Power Requirement (User Supplied) | | |
| 24VDC (± 10%) | | |
| 200V to 240V AC, 1-phase, 50/60Hz | | |
| Protection | | |
| IP 66/67 (Optional cable sealing kit available) | | |
| Cleanroom Class 1000 | | |
| Mounting | Inverted | |
| Environmental Requirements | | |
| Ambient Temperature | 1 - 50 °C | |
| Humidity Range | 5 - 90 % | |
| | (non condensing) | |
| Weight | 117 kg | |
| CE compliant | | |

The Adept Quattro is a parallel robot designed for high-speed packaging and material handling. It is the only robot in the world that features a unique four-arm with a rotational platform designed for high speeds, high acceleration and exceptional performance across the entire work envelope. Powerful embedded amplifiers and compact controls make installation easy and reduce workspace requirements. 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.

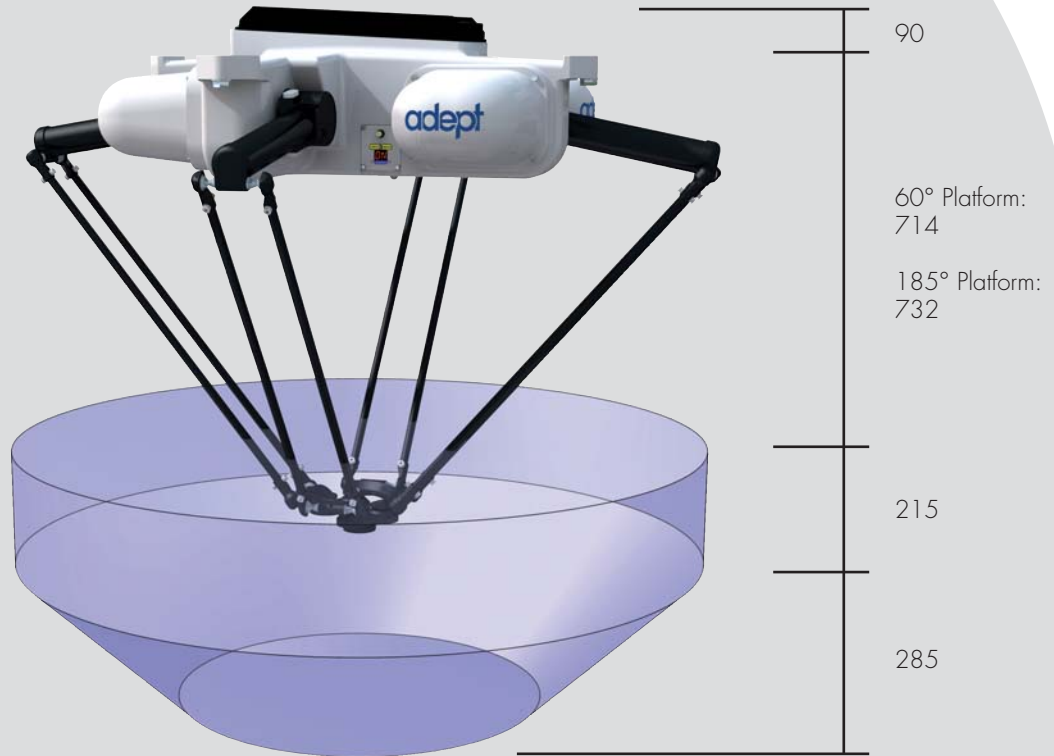
Product Features and Benefits

- 4 parallel arms with rotational platform design for high speeds
- 6 kg rated payload
- High-efficiency motors deliver high performance with more torque per ampere
- Large 1300 mm work envelope
- Maximum of 500 mm Z stroke
- Embedded SmartServo controls
- High repeatability and precision
- High-resolution encoders provide high precision and superior slow-speed following
- Consistent speeds across entire work envelope increase 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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Dimensions Adept Quattro (mm)



- Workspace:
 - Radius 650 mm (0 - 215 mm)
 - Radius 350 mm (215 - 500 mm)

The Adept Quattro system includes the following:

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

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)

Optional Peripherals:

- Adept DeskTop
- AdeptVision: either sAVI or AdeptSight (requires a PC for programming)
- V+ Extensions License for Conveyor Tracking
- T2 Pendant
- IP 66 Cable Seal Kit



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Specifications subject to change without notice.

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