

Innovation Matrix

Product Catalog

Introducing



Bridging the Pacific with Automation Technology

Adept Quattro™



Specifications

Number of axes	4
Payload (rated, max)	2 kg
Working Range	
Diameter	1300 mm
Height (std./max.)	250 mm/500 mm
Rotation	± 180°
Repeatability	
Position	± 0.1 mm
Angular	± 0.4°
Max. Speed	10 m/s
Max. Acceleration (appr.)	150 m/s ²
Robot cycle times	
Payload (kg)	Cycle Time* (s)
0.1	0.26
0.5	0.29
1.0	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 (with optional cable sealing kit)	
Mounting	Inverted
Environmental Requirements	
Ambient Temperature	1 - 40 °C
Humidity Range	5 - 90 % (non condensing)
CE 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 four-arm with a rotational platform designed 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 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

- 4 parallel arm with rotational platform design for high speeds
- 2 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

Benefits

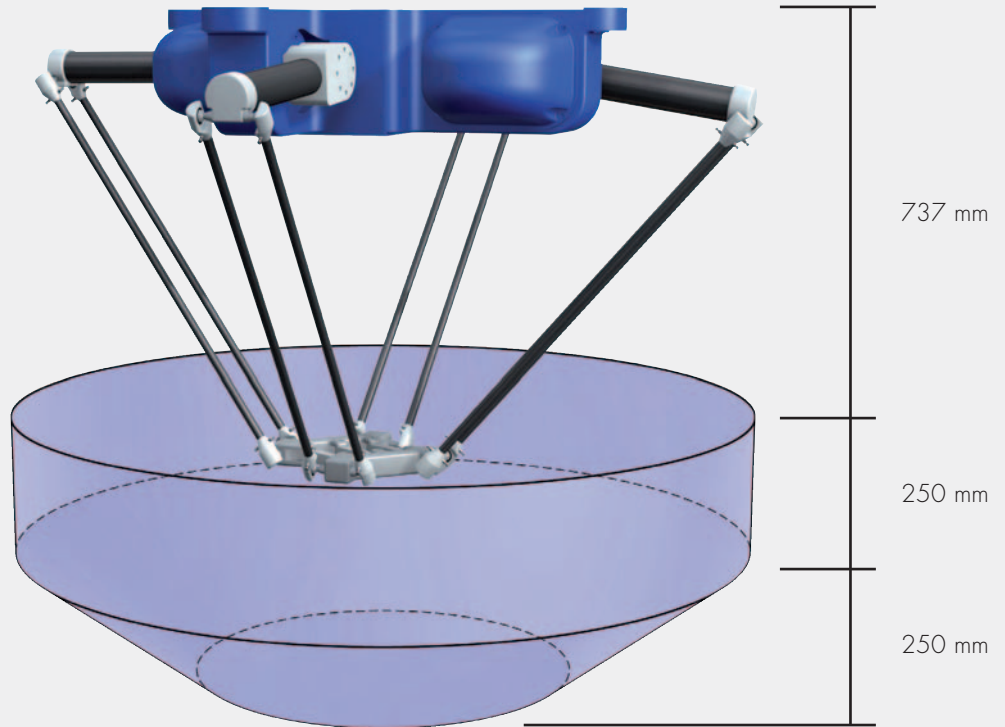
- Consistent speeds across entire work envelope increases productivity and reliability
- Ensures system reliability and high production uptime
- Enables high product mix and changeover
- Reduces integration costs
- Accelerates time to market
- Cabling and workspace savings through integrated controls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



Adept Quattro™

Dimension Adept Quattro (mm)

- Workspace:
Radius 650 mm (0 - 250 mm)
Radius 350 mm (250 - 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

Optional Peripherals

- Adept DeskTop
- AdeptVision: either sAVI or AdeptSight (requires a PC for programming)
- V+ Extensions License for Conveyor Tracking
- T1 Pendant
- IP 65 Cable seal kit

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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