Adept Quattro s650HS



The Adept Quattro[™] s650HS is the only high-speed parallel robot in the world that has been USDA-accepted for meat and poultry processing. 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

- USDA-compliant materials are Generally Recognized As Safe (GRAS)
- Smooth surfaces eliminate areas that harbor bacteria growth
- A completely sealed mechanism prevents ingress/ egress of contaminants
- Tool-less removal of platform and outer arms reduces time required for cleaning
- Patented four-arm design delivers higher speeds for greater throughput

- Highly visible parts and surfaces simplifies inspections
- Compact controls and embedded amplifiers allow for easier installation with a decreased footprint
- Conveyor tracking with vision guidance en sures accurate part location for increased yields
- Adept ACE[™] software simplifies development for faster time to market
- Ethernet TCP/IP and DeviceNet capabilities

The Adept Quattro s650HS robot comes with the high-performance Adept SmartController[®] motion controller, which is based on the Adept SmartServo architecture. It has a small footprint of 329w x 187d x 86h mm.

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Number of Axes		4
Payload		
Rated		2 kg
Max.		6 kg (Up to 15kg with P3
Max Working	Range (see	diagram for details)
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)
		± 0.2°, 0.6°
		(P31, P34)
Max. Speed		10 m/s
		3600°/s
Max. Accelera	tion	150 m/s²
Robot Cycle T (seconds, a	imes, sustai t 20°C amb	
Payload	Std. Cycl	e* 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 Cycl ** Extended (e, in mm (2 Cycle, in mr	
Digital I/O Ch	-	
eAIB:		12 inputs, 8 output
Power Require	ements	
24 VDC : 6/	١	
200 - 240 V	AC : 10A, si	ngle-phase
Ingress Protec	tion	
	/66 (option	al)
Tooling Are	ea: IP-67	
Mounting		Inverted
Environmenta	l Requirem	ents
Ambient Te	emperature	1 - 40 °C
Humidity F	lange	5 - 90 %
		(non-condensing)
Weight		117 kg

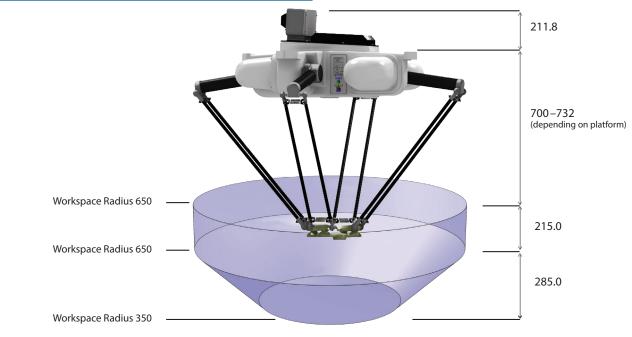
USDA-Accepted for meat and poultry processing



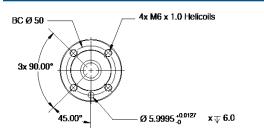


ADEPT QUATTRO s650HS

Dimensions: Adept Quattro s650HS (mm)



Dimensions: Flange (mm)



The Adept Quattro s650HS system includes the following:

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

The Adept Quattro s650HS robot was tested to withstand the following cleaning solutions at manufacturers' recommended concentrations:

- Dura Foam 263
- Chloro Clean 269
- Multiquat 455
- Liquid Fury
- Enrich 299

Downloads:

Download CAD files for the Adept Quattro s650HS Robot from http://www.adept.com/

The user must supply the following:

- Power to SmartController (DC)
- Power to eAIB (AC and DC)
- Emergency-stop wiring at each workcell
- End-effectors
- Frame and cable tray for mounting the robot

Options:

- ACE PackXpert[™] application development software
- AdeptSight[™] 3 vision guidance and inspection system (requires a PC Adept recommends the Adept SmartVision[™] MX)
- Cameras vor vision guidance
- V+ Extensions license for conveyor tracking
- T20 manual control pendant

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Omron Adept Technologies, Inc.

Tel: 925-245-3400 Fax: 925-960-0452 Email: info@adept.com

omron247.com adept.com

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