

Specifications

Adept Cobra s600



The Adept Cobra™ s600 robot is a high-performance SCARA robot system for mechanical assembly, material handling, packaging, machine tending, screw driving, and other applications that require fast and precise automation. Adept Cobra s-Series robots include the Adept SmartController™ motion controller, which provides performance capabilities unmatched in the industry.

Product Features and Benefits

- Adept ACETM software to deploy your applications through a user-friendly interface
- High-resolution, absolute encoders to provide high accuracy, superior slow-speed following, and easy calibration
- High-efficiency, low-inertia Harmonic DrivesTM and a lightweight arm to deliver maximum acceleration
- 8 kHz servo update rate to improve path following and control

- Ethernet TCP/IP capability to control the robot through a PC, PLC, or controller

• Complete interchangeability between robots and controllers



The Adept Cobra s600 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.

ch	600 mm
oad	Rated 2 kg
	Max. 5.5 kg

Adept Cycle

Read Paylo

> Burst Mode 0.42 sec Sustained (20°C) 0.45 sec

Joint Ranges

Joint 1 ± 105° Joint 2 ± 150° loint 3 210 mm

Joint 4 Joint Speeds

> Joint 1 386°/sec Joint 2 720°/sec 1100 mm/sec Joint 3

± 360°

1200°/sec

± 0.019°

Joint 4 Repeatability

> XY ± 0.017 mm Ζ ± 0.003 mm

Theta Pass-Through Connections

Electrical 24 (12 twisted pairs) Pneumatic 6 mm (x2)

4 mm (x3) DeviceNet

Digital I/O Channels

AIB: 12 inputs, 8 outputs Controller: 12 inputs, 8 outputs Optional solenoid: 4 outputs

41 kg

Weight **Environmental Requirements**

Ambient Temperature 5 - 40 °C 5 - 90 % Humidity Range (non-condensing)

Power Requirements for SmartController

24 VDC: 5 A

Power Requirements for AIB

24 VDC : 6 A

200 - 240 VAC : 10 A, single-phase

CE and cUlus Compliant

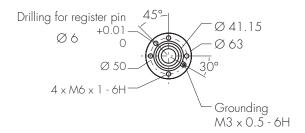
ADEPT COBRA s600

Dimensions Adept Cobra s600



- Work Envelope: Radius 600 mm Inner Limit: Radius 163 mm Height: 210 mm
- Required clearance to open AIB Chassis

Dimensions: Flange (mm)



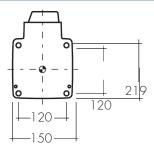
The Adept Cobra s600 system includes the following:

- Adept Cobra s600 robot with AIB (Amplifiers In Base)
- Adept SmartController motion controller
- Front panel with E-Stop
- Adept ACE software
- User documentation

Options and Peripherals:

- AdeptSightTM vision guidance and inspection system (requires a PC–Adept recommends using the Adept SmartVisionTM EX)
- T2 manual control pendant
- Dual robot configuration option
- Conveyor-tracking option
- ullet sMI6 SmartMotion $^{\text{TM}}$ interface
- sDIO I/O expansion (32 digital input and 32 digital output channels)
- 10 Blox I/O module (8 digital input and output channels each)
- High-resolution Joint 4 option
- Solenoid valve kit
- Cleanroom ISO4 (class 10) option/ ESD option
- Adjustable Hardstop Kit

Dimensions: Footprint (mm)



Downloads:

Download CAD files for the Adept Cobra s600 robot from http://www.adept.com/support/downloads/file-search using the following download ID: 500502



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