

# Adept Cobra s350



The Adept Cobra™ s350 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 ACE™ 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 Drives™ 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
- Available in CR/ESD option for cleanrooms and ESD (prevents static electricity during operation)

## Specifications

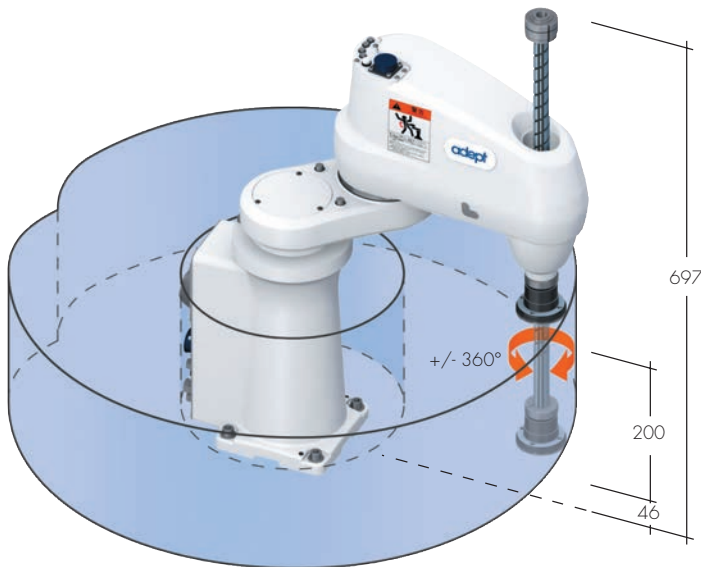
Reach	350 mm
Payload	Max. 5 kg
Joint Range	
Joint 1	± 155°
Joint 2	± 145°
Joint 3	200 mm
Joint 4	± 360°
Joint Speeds	
Joint 1	720°/sec
Joint 2	720°/sec
Joint 3	2000 mm/sec
Joint 4	2400°/sec
Repeatability	
XY	± 0.015 mm
Z	± 0.01 mm
Theta	± 0.005°
Pass-Through Connections	
Electrical	19 conductors
Pneumatic	6 mm (x2) 4 mm (x2)
Weight	20 kg
Environmental Requirements	
Ambient Temperature	5 - 40 °C
Humidity Range	5 - 90 % (non-condensing)
Power Requirements SmartController	24 VDC : 5 A
Power Requirements for eMotionBlox40R	24 VDC : 6 A 200 - 240 VAC : 10 A, single-phase
CE Compliant	



The Adept Cobra s350 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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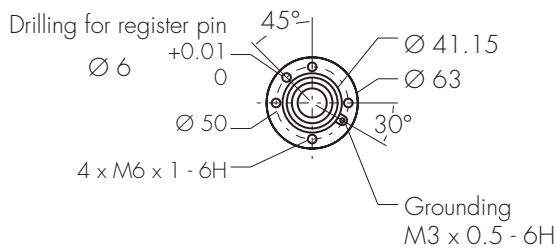
## Dimensions Adept Cobra s350 (mm)



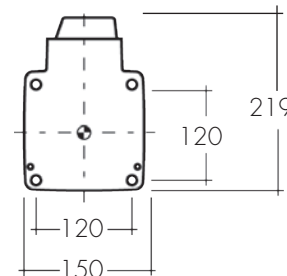
## Dimensions eMotionBlox-40R (mm)



## Dimensions: Flange (mm)



## Dimensions: Footprint (mm)



## The Adept Cobra s350 system includes the following:

- Adept Cobra s350 robot
- Adept SmartController™ motion controller
- eMotionBlox-40R servo controller and amplifiers
- Front panel with E-Stop
- Adept ACE™ software
- User documentation

## Options and Peripherals:

- AdeptSight™ vision guidance and inspection system (requires a PC—Adept recommends using the Adept SmartVision™ MX)
- T20 manual control pendant
- Dual robot configuration option
- Conveyor-tracking option
- sM16 SmartMotion™ interface
- sDIO I/O expansion (32 digital input and 32 digital output channels)
- IO Blox I/O module (8 digital input and output channels each)
- Solenoid valve kit
- Cleanroom ISO4 (class 10) option/ ESD option

## Downloads:

Download CAD files for the Adept Cobra s350 robot from <http://www.adept.com/>



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Specifications subject to change without notice.

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