

Adept Cobra™ s800 Inverted

Specifications

Reach	800 mm
Payload	5.5 kg (max)
Joint 4 inertia	450 kg-cm ² (max)
Downward Push Force	300 N
Adept Cycle	0.54 s (2 kg)
Joint Range	
Joint 1	±123.5°
Joint 2	±156.5°
Joint 3	210 mm
Joint 4	±360°
Joint Speeds	
Joint 1	386°/s
Joint 2	720°/s
Joint 3	1,100 mm/s
Joint 4	1,200°/s
Repeatability	
X/Y	±0.017 mm
Z	±0.003 mm
Theta	±0.019°
Pass-Through User Connections	
Electrical	24
Pneumatic 6 mm	2x
Pneumatic 4 mm	3x
DeviceNet	1
Digital I/O Channels	
	12 inputs
	8 outputs (included)
	4 solenoid outputs (end of arm)
Weight	
	51 kg
Power Requirements	
Mechanism	240 VAC, 10 A
Controller	24 VDC, 5 A
Environmental Requirements	
Temperature	5 °C to 40 °C
Humidity Range	5% to 90% (non-condensing)



The Adept Cobra s800 Inverted is a high performance robot system designed for packaging and material handling applications. The overhead mounting makes it ideal for mounting above a conveyor belt and minimizing the machine footprint. With an 800 mm reach and 5.5 kg payload this robot is well suited for a much wider range of applications than specialized picking robots.

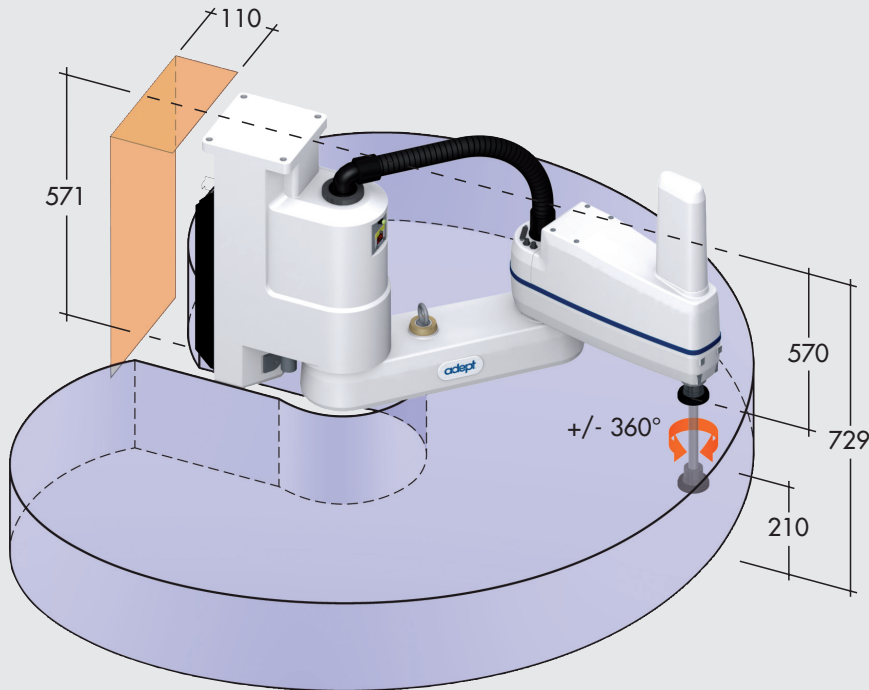
The Adept Cobra s800 Inverted also incorporates Adept's proven servo-controls and amplifiers embedded into the robot base, further minimizing space needed for control panels. This system also leverages Adept's proven vision and software for vision-guided conveyor tracking applications which Adept pioneered more than 20 years ago.

Product characteristics/Performance

- Integrated amplifier provides best-in-class performance, and minimum footprint
- V+ real time - multitasking operating system
- Programming software AdeptWindows or Adept DeskTop
- Adept SmartController CX high-performance robot and vision controller
- Absolute encoders make for easy calibration
- High-resolution encoders provide high-precision and superior slow-speed performance
- High-efficiency motors deliver high performance with more torque per amp
- Low-inertia harmonic drives provide maximum acceleration
- Complete interchangeability between robots and controllers
- Also available as IP65 version
- Integrated diagnostic display enables fast troubleshooting
- Control of external auxiliary axes
- Dual configuration

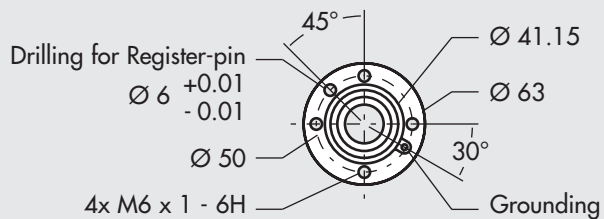
Adept Cobra™ s800 Inverted

Dimension Adept Cobra s800 Inverted (mm)

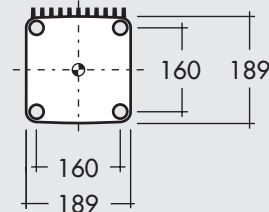


- Work Envelope: Radius 800 mm
Inner Limit: Radius 167 mm
Height: 210 mm
- Recommended wall distance

Dimension Flange (mm)



Dimension foot plate (mm)



System Includes

- The Adept Cobra s800 Inverted system includes the following:
- Adept Cobra s800 Inverted Robot (Embedded servo controller and amplifiers)
 - Adept SmartController CX (with software installed)
 - Front Panel with E-Stop
 - 4-Meter Robot Cable
 - AdeptWindows software
 - Network File Server (NFS) software
 - Ethernet TCP/IP capability
 - User Documentation

- Also available as IP65 version
- Adept SmartMotion – sMI6 based
- Adept DeskTop
- Dual configuration
- Solenoid Valve kit

Downloads

Download CAD files from www.adept.com using the following download ID:

- Adept Cobra s800 Inverted Robot 500508

Optional Peripherals

- T1 Pendant with color touch screen
- AdeptSight or AdeptVision sAVI Vision system
- Conveyor Tracking
- sDIO (32 digital input & 32 digital output channels) connects to SmartController CX
- IO Blox (8 digital input & 8 digital output channels) connects to AIB
- XIO (12 digital input & 8 digital output channels) connects to AIB



Adept Technology, Inc. 3011 Triad Drive, Livermore, CA 94551
Tel: 925-245-3400 Fax: 925-960-0452 Email: info@adept.com
www.adept.com

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