

Adept Cobra™ s800 Inverted

Specifications

Reach	800 mm
Payload	5.5 kg (max)
Joint 4 inertia	450 kg-cm ² (max)
Downward Push Force	30 kgf
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	1100 mm/s
Joint 4	1200°/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
Environmental Requirements	
Ambient temperature	5 - 40 °C
Humidity range	5 - 90 % (non condensing)
Power Requirements for SmartController	
	24VDC (± 10%), 120W (6A)
	200V to 240V AC, 1-phase, 50/60Hz (10A)
	User-Supplied



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 wide range of applications.

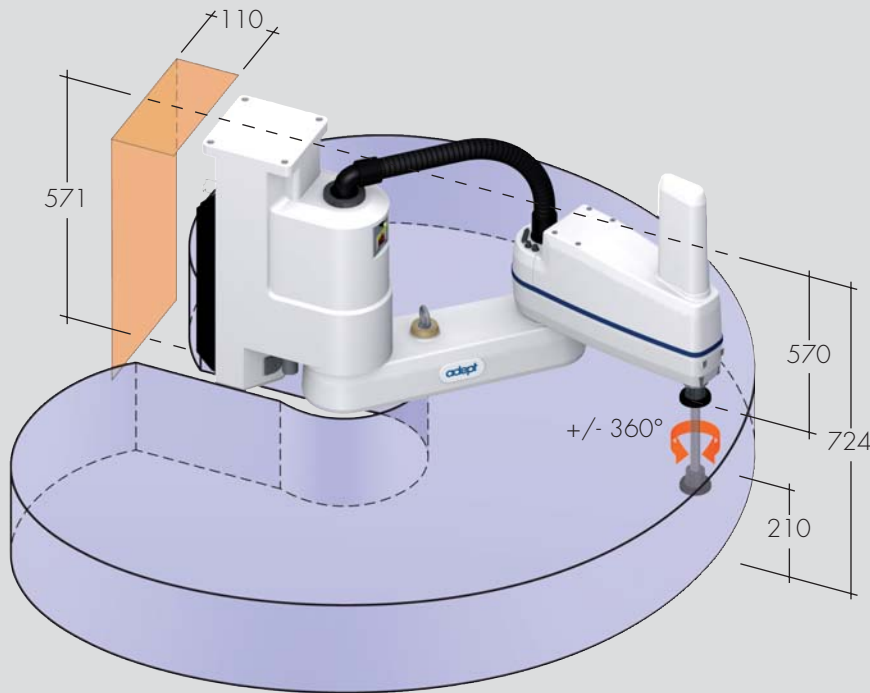
The Adept Cobra s800 Inverted incorporates Adept's proven servo controls and amplifiers embedded into the robot base, further minimizing space needed for control panels. This system also leverages Adept's proven vision and software for vision-guided conveyor tracking applications which Adept pioneered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

Product Features and Benefits

- 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
- 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

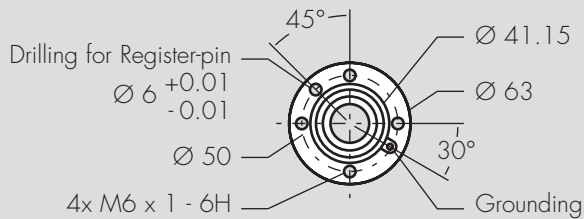
Adept Cobra™ s800 Inverted

Dimensions Adept Cobra s800 Inverted (mm)

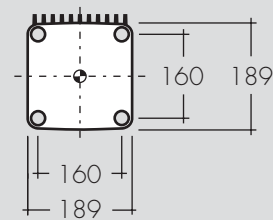


- Work Envelope: Radius 800 mm
Inner Limit: Radius 167 mm
Height: 210 mm
- Recommended wall distance

Dimensions Flange (mm)



Dimensions foot plate (mm)



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

- Adept DeskTop
- Dual configuration
- Solenoid Valve kit
- J4 High resolution
- Stop on digital input

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)
- IO Blox (8 digital input & 8 digital output channels)
- XIO (12 digital input & 8 digital output channels)
- Also available as IP65 version
- Adept SmartMotion – sMI6 based



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Specifications subject to change without notice.

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