

Adept Cobra ePLC800 Inverted



Allen-Bradley PLC

Siemens PLC

The Adept Cobra™ ePLC800 Inverted robot is a compact, high-performance, 4-axis, SCARA robot. The overhead-mounting configuration enables efficient use of space. Adept's ePLC robots natively run Adept ePLC Connect™ software, which allows them to communicate directly with an existing Programmable Logic Controller (PLC) without the use of a separate external controller. This ePLC configuration allows users to install, program, operate and support our high-performance robots using the familiar interface of their existing PLC. Adept ePLC robots are designed to provide significant cost and time savings for users with new or existing PLC automation systems.

Product Benefits

- Lower system cost due to controller-less operation
- Rapid deployment using familiar ladder logic programming languages of existing PLC (IEC 61131-3)
- Maximum facility utilization with the most compact system footprint in the industry
- Increased facility safety and lower cost with minimal power and signal cabling requirements

Product Features

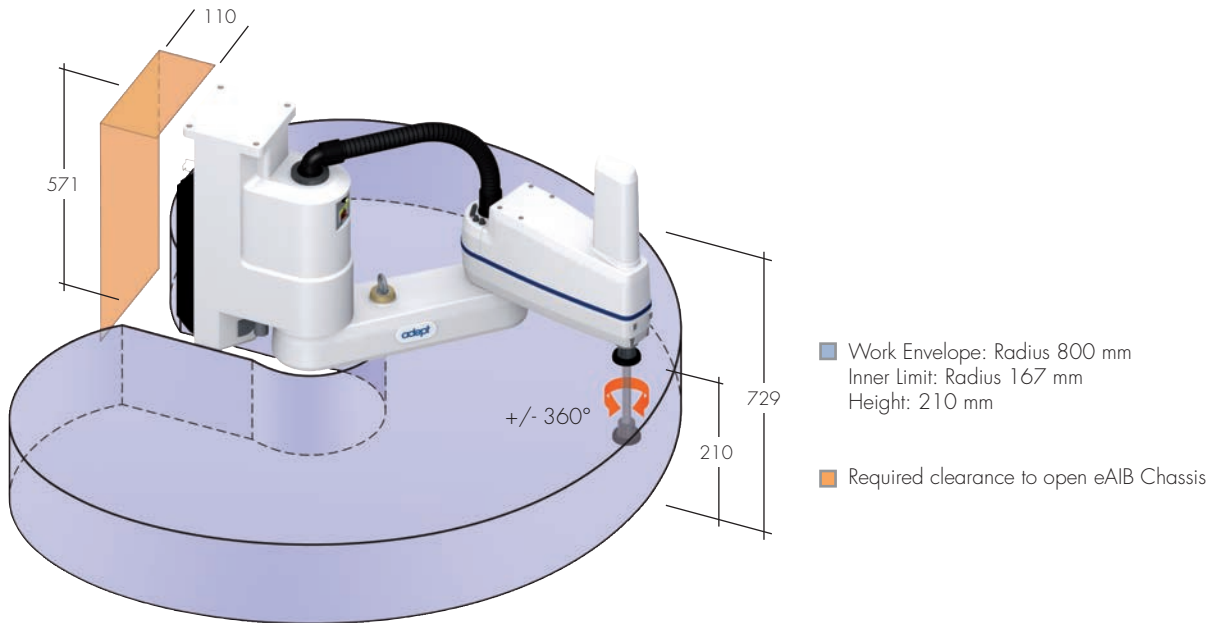
- Compatible with 1756 ControlLogix® or CompactLogix™ (by Allen-Bradley) and S7-300 SIMATIC (by Siemens) PLCs
- High-resolution, absolute encoders to provide high accuracy, superior slow-speed following, and easy calibration
- High-efficiency, low-inertia Harmonic Drives™ and a lightweight arm to deliver maximum acceleration
- 8 kHz servo update rate to improve path following and control
- Integrated 10/100 Base-T Ethernet for EtherNet/IP™ communication

Specifications

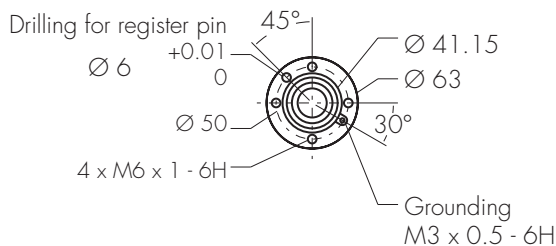
Reach	800 mm
Payload	
Rated	2 kg
Max.	5.5 kg
Adept Cycle (in mm 25/305/25)	
Burst Mode	0.54 sec
Sustained (20°C)	0.54 sec
Joint Ranges	
Joint 1	± 123.5°
Joint 2	± 156.5°
Joint 3	210 mm
Joint 4	± 360°
Joint Speeds	
Joint 1	386°/sec
Joint 2	720°/sec
Joint 3	1100 mm/sec
Joint 4	1200°/sec
Repeatability	
XY	± 0.017 mm
Z	± 0.003 mm
Theta	± 0.019°
Pass-Through Connections	
Electrical	24 (12 twisted pairs)
Pneumatic	6 mm (x2) 4 mm (x3)
DeviceNet	1
Digital I/O Channels	
eAIB:	12 inputs, 8 outputs
Optional Solenoid:	4 outputs
Weight	51 kg
Environmental Requirements	
Ambient Temperature	5 - 40 °C
Humidity Range	5 - 90 % (non-condensing)
Power Requirements	
	24 VDC : 6 A
	200 - 240 VAC : 10 A, single-phase
CE Compliant	

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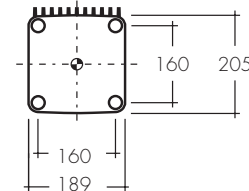
Dimensions: Adept Cobra ePLC800 Inverted (mm)



Dimensions: Flange (mm)



Dimensions: Footprint (mm)



The Adept Cobra ePLC800 Inverted system includes the following:

- Adept Cobra ePLC800 Inverted robot with eAIB (Amplifiers In Base)
- Front panel with E-Stop
- Adept ACE™ software
- User documentation
- Cables to connect E-Stop and other peripherals

Options and Peripherals:

- AdeptSight™ vision guidance and inspection system
- T20 manual control pendant
- Solenoid valve kit
- IP-65 + Cleanroom ISO4 (class 10) option
- Adjustable hardstop kit

Downloads:

Download CAD files for the Adept Cobra ePLC800 Inverted robot from <http://www.adept.com/support/downloads/file-search>

Optional T20 Manual Control Pendant:



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www.adept.com

Specifications subject to change without notice.

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