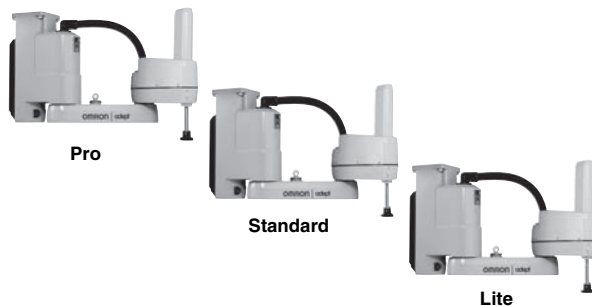


# eCobra 800 Inverted Lite/Standard/Pro

## Overhead-mount large SCARA robot for precision machining, assembly, and material handling



- Ethernet capability to control the robot through the familiar programming language (IEC 61131-3) of Machine Automation Controller NJ/NX/NY Series
- Overhead-mounting configuration for efficient use of space
- High payload for screw-driving tools
- The amplifier and controller built into the robot reduces the number of cables
- Choose the right robot for you application from three different types
- Reach 800 mm
- Maximum payload 5.5 kg
- Weight 51 kg

## Specifications

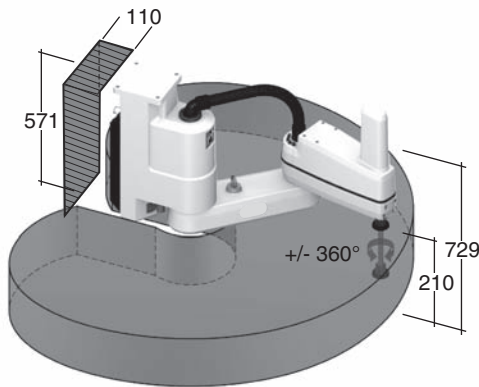
Product name		eCobra Inverted								
Size		800								
Type		800 Lite			800 Standard			800 Pro		
Cleanroom/IP		Standard	Cleanroom	IP65	Standard	Cleanroom	IP65	Standard	Cleanroom	IP65
Part Number		17010-18400	17010-18410	17010-18430	1711[ ]-18400	1711[ ]-18410	1711[ ]-18430	1721[ ]-18400	1721[ ]-18410	1721[ ]-18430
Number of axes		4								
Mounting		inverted								
Reach		800 mm								
Maximum Payload		5.5 kg								
Repeatability	XY	±0.017 mm								
	Z	±0.003 mm								
	Theta	±0.019°								
Joint Range	Joint 1	±123.5°								
	Joint 2	±156.5°								
	Joint 3	210 mm								
	Joint 4	±360°								
Inertia Moment (Max.)	Joint 4	450 kg-cm <sup>2</sup>								
Joint Speeds	Joint 1	386°/s								
	Joint 2	720°/s								
	Joint 3	1100 mm/s								
	Joint 4	1200°/s								
Power Requirements		24 VDC: 6 A 230 VAC: 10 A								
Protection		IP20	IP20	IP65	IP20	IP20	IP65	IP20	IP20	IP65
Clean Class		---	Class 10	---	---	Class 10	---	---	Class 10	---
Environment Requirements	Ambient Temperature	5 to 40°C								
	Humidity Range	5 to 90% (non-condensing)								
Weight		51 kg								
Basic configuration	Controller	eAIB								
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output								
	Conveyor tracking input	No						2		
	RS-232C serial communications port	No			1					
	Programming environment	ACE			ACE, PackXpert, ePLC					
	ACE Sight	No *1			Yes					
	ePLC Connect	No			Yes					
ePLC I/O	No						Yes			
Connectable controller *2		No			SmartController EX, NJ/NX/NY Series *3					

\*1. The SmartVision MX cannot be used with the Lite type.  
 \*2. Choose a controller to suit your application.  
 \*3. The robot version 2.3.C or later is required to connect with the NJ/NX/NY Series.

# Dimensions

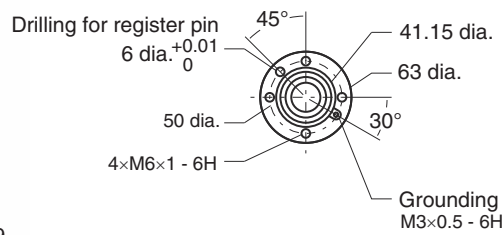
(Unit: mm)

## eCobra Inverted 800

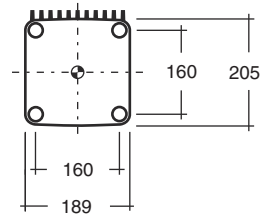


- Work Envelope: Radius 800 mm  
Inner Limit: Radius 167 mm  
Height: 210 mm
- Required clearance to open eAIB Chassis

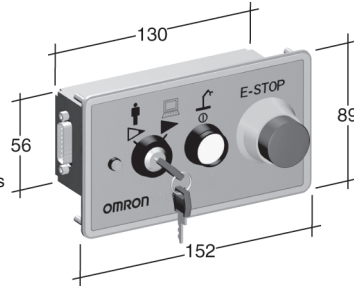
## Flange



## Footprint



## Front panel



# Robot Parts Code and Bundled Accessories

Type	eCobra			eCobra Add-On			
	Cleanroom/IP	Standard	Cleanroom	IP65	Standard	Cleanroom	IP65
eCobra 800 Inverted Lite	17010-18400	17010-18410	17010-18430	---	---	---	---
eCobra 800 Inverted Standard	17111-18400	17111-18410	17111-18430	17113-18400	17113-18410	17113-18430	17113-18430
eCobra 800 Inverted Pro	17211-18400	17211-18410	17211-18430	17213-18400	17213-18410	17213-18430	17213-18430
Overview	Robot + eAIB with fully integrated controls			Robot + eAIB with required connection cables			
Purpose	Typical for use in single robot system			Typically added to systems with an existing SmartController EX to create multi-robot systems			
Bundled Accessories	<ul style="list-style-type: none"> <li>• XSYSTEM cable with jumpers, 1.8 m/6 ft (13323-000)</li> <li>• Front panel kit (90356-10358)</li> </ul>		<ul style="list-style-type: none"> <li>• XSYSTEM cable with jumpers, 1.8 m/6 ft (13323-000)</li> <li>• Front panel kit (90356-10358)</li> <li>• Cable Seal Kit (09073-000)</li> </ul>	<ul style="list-style-type: none"> <li>• XSYSTEM cable with jumpers, 1.8 m/6 ft (13323-000)</li> <li>• XSYS cable, 4.5 m/15 ft (11585-000)</li> <li>• DB9 splitter (00411-000)</li> <li>• 1394 latch cable, 4.5 m/15 ft (13632-045)</li> <li>• eV+ license to connect to controller (14529-103)</li> </ul>			