

P-145

Basic Description

FANUC Robotics' P-145 robot is engineered to provide a high-quality, reliable and affordable painting solution, for a variety of industrial goods, including domestic appliances, automotive components and watercraft. The P-145 is easy to maintain and offers fast acceleration and high-speed operation, which results in minimized cycle times and reduced production costs. The six-axis, electric servo-driven robot's rugged design is based on the success of six generations of paint robots, and experience gained as the market leader in robotic painting systems.

P-145, the Solution for:

- Automotive components
- Fascia
- Fiberglass chop/gel coating
- Automotive top coat

Features

- Six axes of motion
- Large envelope and payload capacity that enables a wide range of painting applications
- Patented purge system approved for operation in hazardous environments including Class I and II, Division I and Groups C, D, E, F and G.
- Integral drive component design with sealed lubrication lowers the number of parts and reduces maintenance frequency.

Benefits

- Advanced motion software



provides constant tip speeds, improving the uniformity and appearance of the paint finish.

- High acceleration decreases the robot repositioning time, increasing the amount of available process cycle time.
- Hollow wrist and through arm hose routing provide a clean application environment.
- PaintTool software has a common user interface to all FANUC Robotics' paint robots, increasing operation efficiency.
- FM, CSA and CE Mark approved.

Options

Hardware:

- Extended outer arm (+1450mm)

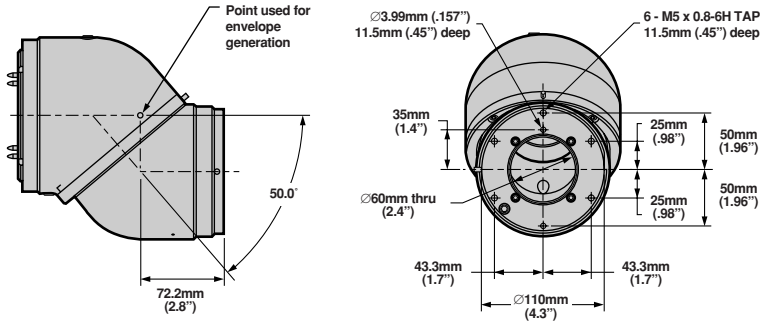
- Integrated micro valve color changer (for short color change time and waste reduction)
- Brakes on axes 4 and 5
- Integral paint delivery pumps and control for 2K variable ratio system
- I/O subsystems including Allen Bradley RIO, DeviceNet, Profibus-DP

Software:

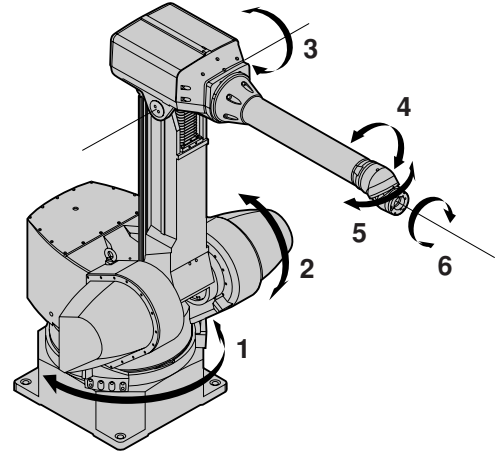
- Line tracking
- Automatic color change
- Analog parameter control
- Accuflow
- Integral 2K variable ratio Pump Control

P-145 Dimensions

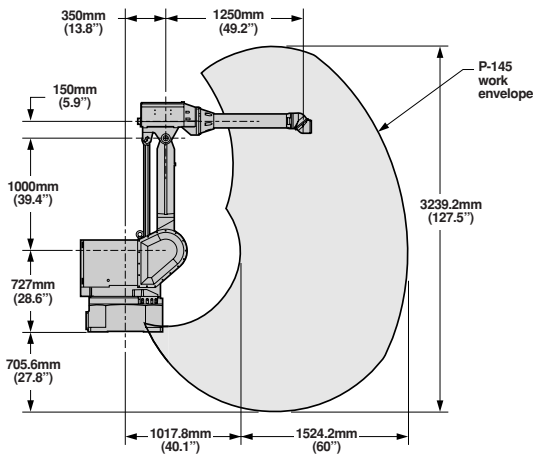
Wrist Dimensions and Interfaces



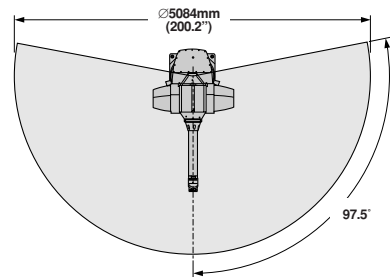
Isometric



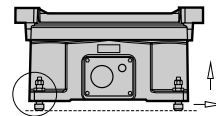
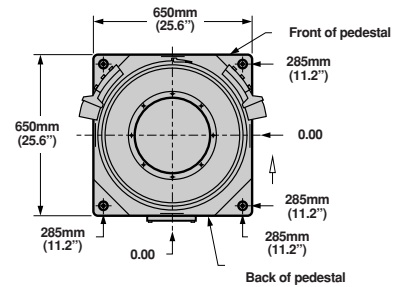
Side



Top



Pedestal Interface



P-145 Specifications

Items			
Axis	6	Range	Speed
Motion range and speed	Axis 1	195°	103°/sec
	Axis 2	140°	140°/sec
	Axis 3	120°	125°/sec
	Axis 4	540°	395°/sec
	Axis 5	540°	545°/sec
	Axis 6	540°	666°/sec
Repeatability	±0.5mm (±0.019")		
Maximum Payload	7.5kg (16.5 lbs) @300mm offset		
Maximum Reach	2.542 mm		
Mechanical brakes	J2, J3		
Mechanical weight	500kg (1100 lbs)		
Tool tip speed	1500 mm/sec		
Mounting method	Upright		
Energy consumption	air	< 1 scfm	
	electric	< 1 kw (average)	

Note: Dimensions are shown in millimeters.

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