

P-10™ Door Opener

FANUC
Robotics

Basic Description

The FANUC Robotics P-10 Door Opener is a three-axis, vertically articulated robot designed specifically for opening automobile and truck doors to facilitate robotic interior painting. Engineered for use with FANUC Robotics' advanced P-200 robotic painting system, the P-10 mounts directly on the P-200 robot's rail yet maintains independent motion through its own rail drive motor.

Two additional servo motors drive the inner and outer arm of the P-10, providing in/out and up/down motion. To simplify end-of-arm tooling requirements, an internal linkage keeps the P-10 face plate and tool in a constant position relative to the floor.

The P-10 Door Opener is operated by the P-200 robot's controller using PaintTool application software. The easy-to-use software provides independent motion of robot and door opener.

P-10 Door Opener, the Solution for:

- Automotive and truck interior painting
- Moving line processing
- Fixtureless applications

Features and Benefits

Mechanical:

- Proven, reliable FANUC Robotics mechanical design
- Vertical articulation of P-10 requires less booth space than horizontally articulated machinery



- Designed for high-speed moving line applications
- Reduced maintenance design improves system uptime
- Tooling is easily removed for cleaning

Electrical:

- Proven, dependable FANUC Robotics servo drives
- Advanced design allows the P-10 and P-200 robots to operate on a shared SYSTEM R-J2 Controller
- Heavy-duty construction and a patented, agency-approved purge system for operation in paint spraying environments, including Class I and II, Division 1, Groups C, D, E, F and G

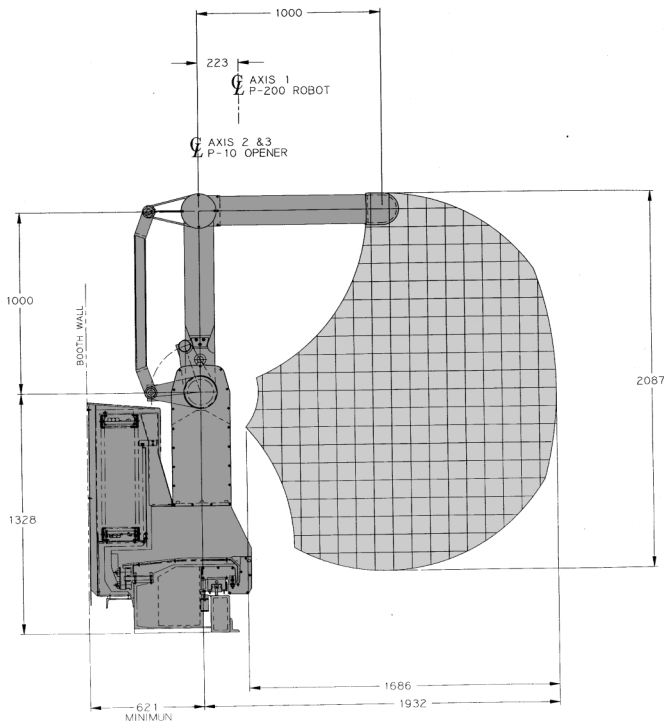
Software:

- Independent group motion allows P-10 and P-200 to perform separate tasks simultaneously, reducing cycle time and decreasing required spray zone length
- Built-in software features simplify path teaching and help users coordinate independent motion groups

P-10 Specifications

Items	Specification	
Motion range and speed	Range	Speed
Axis 1	Determined by rail length	1500mm/sec
Axis 2 (inner arm)	100°	49°/sec
Axis 3 (outer arm)	72°	49°/sec
Door opening pull force	60 lbf (maximum)	
Drive Type	Electric AC Servomotor	
Position Encoders	Absolute Pulse Coders	
Mastering Method	Witness Surfaces	
Weight	370 kg	
Certification	FM Class I, II, III/Div I, II	
Environment	0 - 45° C	

Door Opener Dimensions



P-10/P-200 Interior Cut-in System



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