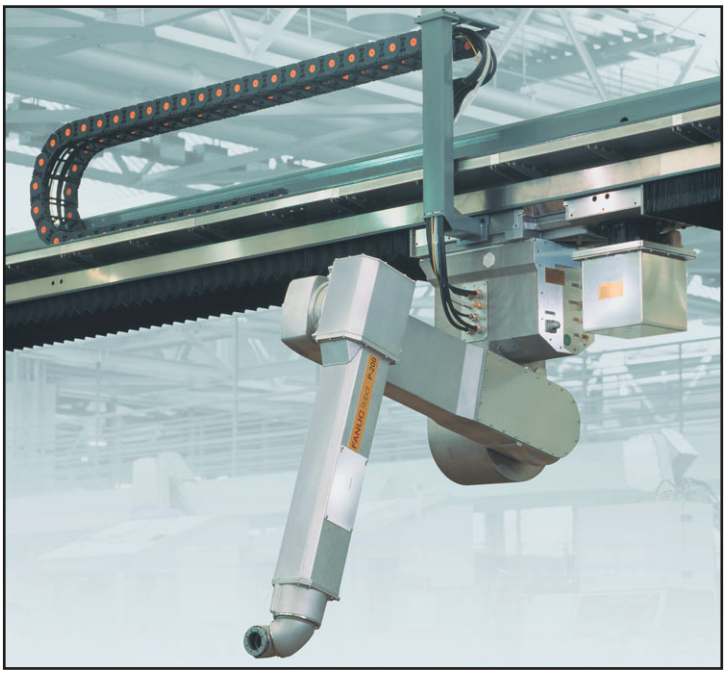
P-200T

Basic Description

FANUC Robotics' P-200T overhead rail-mounted paint robot integrates the industry's most advanced process equipment to enhance application of paint, gelcoat and chopped fiberglass. The P-200T is a six-axis, modular construction, electric servo-driven robot, designed for painting and fiberglass reinforced plastic (FRP) industries. A feasible replacement for manual sprayers, the P-200T robot provides an overhead reach that gives process flexibility to maintain target distances over large parts.



Process Advantages

- Robotic spraying meets and exceeds the criteria for controlled spraying.
- Consistent trigger on timing yields consistent film build, providing an improved finish appearance.
- Maximized trigger accuracy and repeatability through in-arm trigger valve for fast gun on/off response time.
- Reduced material waste.
- Higher film build consistency.
- Easy installation alignment minimizes integration costs.
- Heavy payload (15kg at wrist, 15kg in outer arm) carries current applicators with flexibility for future applicator technology to provide a longer lasting paint shop solution.
- WinTPE is a user-friendly Windows-based, graphical programming interface for viewing, editing and teaching positions in Teach Pendant Programs (optional).

Motion Control Advantages

- Extremely fast acceleration and deceleration motions increase spraying time allowing more area to be covered by the same robot.
- Constant application speed yields consistent film build, providing improved finish appearance.

System Advantages

- Modular length rails can be attached to free-standing, modular support legs

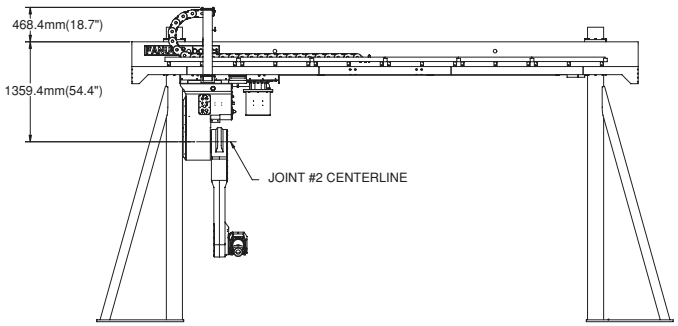
Reliability and Maintenance Advantages

- Cast aluminum gear boxes contain sealed lubrication that increases reliability and decreases maintenance cost.
- Patented, hollow, sealed wrist and patented purge system for operation in hazardous environments protect motors and cables from painting environment and are approved for Class I and II, Div. 1, Groups C,D,E,F,G environments.
- Utilizes P-200 existing technology found in automotive final assembly paint shops.

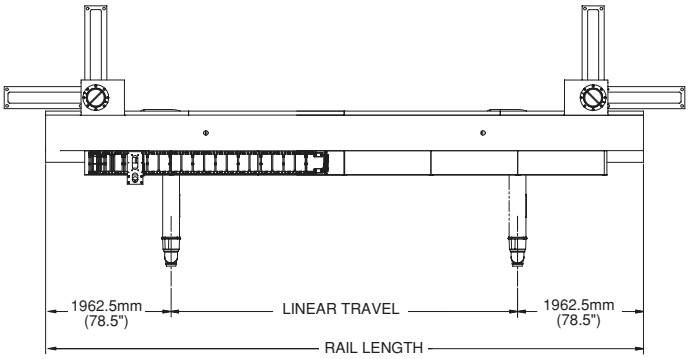
FRP Capabilities

- Helps reduce styrene emissions and improve bottom line results for customers.
- User-friendly AccuChop closed loop fluid delivery system automatically calculates flow rates, providing consistent paint delivery and high finish quality (optional).
- Robot designed for fiber-glass reinforced plastic applications in the boat industry.
- FANUC Robotics has extensive experience within the fiberglass open mold forming market.

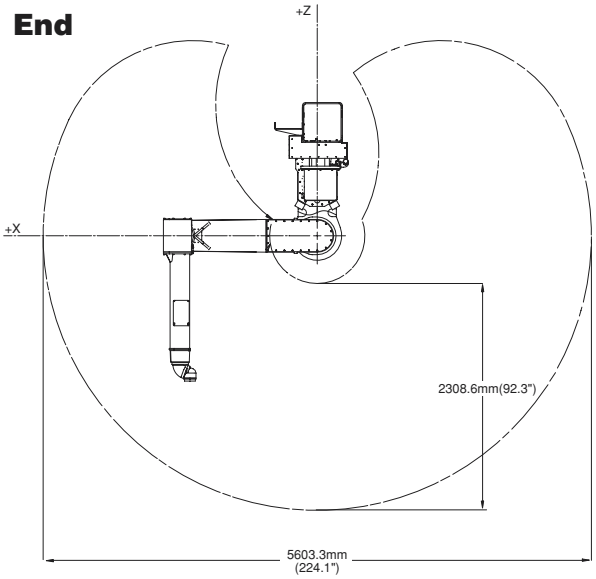
Side



Top



End



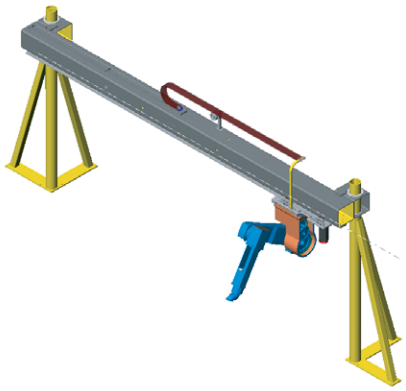
P-200T Specifications

Items			
Motion Range and Speed	Axis 1	7.5 meter travel (various)	1100 mm/sec
	Axis 2	+/- 115°	119° /sec
	Axis 3	+/- 160°	150° /sec
	Axis 4	+/- 180°	375° /sec
	Axis 5	+/- 180°	428° /sec
	Axis 6	+/- 180°	364° /sec
Coating speed	1000 mm/sec		
Wrist payload[A]	15kg		
Outer arm payload[B]	15kg		
Repeatability	+/- 1mm		
Mechanical brakes	Axis 2, 3, 4, 5		
Certification	FM Class I, II, III/Div I, II		
Environment	0-45° C ambient temperature		

Note:

A) At 300mm radial 50mm axial offset

B) Mounted inside outer arm



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