

MOTOMAN NEWS RELEASE

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MOTOMAN PX-SERIES ROBOTS DELIVER SMOOTH FINISH ON VIRTUALLY ANY PART



Dayton, Ohio —Motoman’s PX-series “Expert Painting” robots are flexible six-axis manipulators specifically designed to optimize performance in industrial and automotive painting/coating applications. PX-robots can be used for primer, base coat, finish coat, clear coat, and spray dispensing applications using water-based, solvent, powder, glaze or glue/adhesive materials. Six PX-series robot models are available with reaches ranging from 798-2,900 mm (31.4-114.2”), making them ideal for painting a wide variety of products, from small parts to large car bodies and machines.

In addition to the standard robot wrist available on the PX800, the world’s smallest painting robot -- three specialized wrist designs provide optimal painting capabilities for any workplace.

- **Three-roll type wrist** (PX1450, PX2050, PX2850) is suitable for painting car bodies and the inside of box-shaped objects.
- **Lemma type wrist** (PX1450, PX2050, PX2750) is suitable for painting horizontal and vertical planes at high speeds.
- **Hollow type wrist** (PX2850, PX2900) includes a large opening through the robot base, arm, and wrist for hoses, cables and direct connection of various spray application devices to the robot wrist. Interference between the hoses and parts/fixtures is avoided, ensuring optimum cycle time and robot reach/access.

Motoman offers a variety of fully integrated spray gun options for these different wrist types, including air spray, electrostatic and bell applicatons. As an option, Motoman offers a built-in (external axis) servo motor that can be used to drive gear pumps which are used for closed-loop fluid control).

All of the Motoman PX-series robots feature a Factory Mutual (FM) Class 1 Division 1 explosion-proof rating. Painting devices such as Color Change Valves (up to 24 colors), Flushable Gear Pump, and solenoid valves can be mounted on the upper arm of the larger, floor-mounted painting robots. Shorter paint hoses make efficient use of coating material and lead to improved quality, since paint drips and other contamination falling from the paint hoses is minimized. This results in reduced cycle time and efficient use of coating material.

Two types of programming pendants are available for the PX-series robots. The explosion-proof version can be used in the spray booth while the spray process is in operation. It features a 4.7-inch LCD display that displays painting data and the contents of the jobs. The standard programming pendant has a larger 5.7-inch LCD display; however, this pendant must be removed from the spray booth while the spray process is in operation. Programming is easy using specific painting software icons and pull-down menus for Teach and Edit functions.

The advanced features of the multi-function XRC 2001 robot controller allow it to coordinate the operation of the manipulator and painting devices, including the painting gun. Advanced Robot Motion (ARM) control minimizes over-spray using its high-precision path control and vibration suppression control.

The XRC supports paint gun control instructions such as spray start/stop and painting condition instructions to make the preparation and management of programs easier. The complete set of painting condition parameters can be filed and saved. The XRC also supports a variety of fieldbus networks such as DeviceNet, ProfiBus, EtherNet/IP, enabling the controller to be connected to peripheral devices including painting machine controllers and line controllers.

For more information on Motoman products and services, call 937.847.6200, write to Motoman Inc., 805 Liberty Lane, West Carrollton, Ohio, USA 45449, or visit the corporate website at www.motoman.com.

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