

Robotic paint line improves safety and reliability

SUCCESS STORY

A fleet and transport vehicle manufacturer turned to the Graco Pro Xpc automatic electrostatic air spray gun to improve safety, reliability and efficiency at its plant.

Safety is a top priority for any manufacturing facility. When a fleet and transport vehicle manufacturer was informed that the automatic spray guns they were using could potentially cause a fire, management reacted quickly to identify the exact source of the problem. It appeared that the spray guns had arcing issues and worn-out voltage cables.

The spray gun's distributor was contacted and a new model was provided and tested. Unfortunately, this model had its own issues. One of the worst was that the voltage cable would come off the gun while spraying, forcing them to run without electrostatics. This was wasting material – up to 50 percent in transfer efficiency – and time while waiting several weeks for the manufacturer to service the equipment.

“When it comes to safety, there’s no safer spray gun on the market”

Customer:	FLEET AND TRANSPORT VEHICLE MANUFACTURER
Country:	UNITED STATES
Equipment:	PRO XPC AUTOMATIC
Industry:	FLEET AND TRANSPORTATION
Application:	ELECTROSTATIC PAINTING

“CALL GRACO: THEY’LL HAVE A SOLUTION!”

Looking for a more efficient solution to their spray gun challenges, a service engineer suggested that the company management should contact the local Graco account representative. The rep listened to the problems the company was facing and suggested that the Graco Pro Xpc automatic electrostatic air spray gun would be a much better solution. He explained that when it comes to safety, there’s no safer spray gun on the market. Graco is fully aware that high voltage carries a risk when it’s running throughout the booth. That’s why the Pro Xpc Auto is designed with a low voltage cable connection to the gun’s 100 kV power supply. Another feature that improves safety is the Pro Xpc Auto Controller which has arc detection software that automatically shuts off

electrostatics when a part is too close to the gun.

The Graco distributor agreed to send one over for testing. Within a week, Graco supplied the manufacturer with a Pro Xpc Automatic Electrostatic Air Spray Gun, controller, and all the accessories needed to connect to their existing FANUC P-350 robot. The Pro Xpc immediately provided a renewed confidence with a much more robust and durable design than its predecessor.

“LET’S ORDER ANOTHER FOUR PRO XPC SPRAY GUNS!”

The manufacturer found the Pro Xpc to be an excellent replacement for their older automatic equipment, and could be easily integrated into their manufacturing configurations. Less than a week after installing their first Pro Xpc, the manufacturer ordered four more. Two for FANUC P-350 robots already in place, and two more for FANUC P-50 robots to be installed later that year.

“The Pro Xpc Auto gun has become the new standard”

A year later, the Pro Xpc is the standard for all of the company’s plants and their suppliers. The fleet and transport vehicle manufacturer found an electrostatic spray gun that is safe, reliable and easy to maintain.

A CLOSER LOOK AT THE PRO XPC

The Pro Xpc Auto electrostatic spray gun is a light, compact spray gun with outstanding reach. It’s designed to do more work in less space. Its size makes it great for spraying in tight spaces and corners, and its weight

makes it ideal for robots and fixtures with lower payloads. In fact it’s specially designed for efficient robot integration. In addition to providing 250 user settable presets and maintenance reminders, it’s also PLC or switch box controllable, which gives you the flexibility to take charge of your spraying processes.

The Pro Xpc Auto electrostatic spray gun offers excellent finish quality and leading class transfer efficiency. It’s safe, durable, PLC controllable, designed for efficient system integration and comes with a serialized certificate of performance. It’s available as a solvent-borne 100 kV gun with the ability to spray materials with a resistivity down to 3 megohm/cm, and a waterborne 60 kV gun for waterborne material.

