Pro Xpc™ Auto

Automatic Electrostatic Air Spray Guns

PROVEN QUALITY. LEADING TECHNOLOGY.

Setting New Standards

The Pro Xpc Auto electrostatic spray gun offers excellent finish quality, leading class transfer efficiency and is just the right size for robots and fixtures with payload limits. It's safe, durable, PLC controllable, designed for efficient system integration and comes with a serialized certificate of performance — so you can rest easy that your Pro Xpc Auto won't let you down.

Robot Friendly

Graco understands you need to find a lighter, more compact spray gun with greater reach capability. We streamlined the Pro Xpc Auto so it can 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.

Improve Your Processes

In addition to providing 250 user settable presets and maintenance reminders, Pro Xpc Auto Controller is designed for efficient robot integration. Because it is PLC or switch box controllable, it allows you the flexibility to take charge of your spraying processes. An excellent replacement for manual spray guns and older automatic equipment, the Pro Xpc Auto can be integrated into a variety of manufacturing configurations.

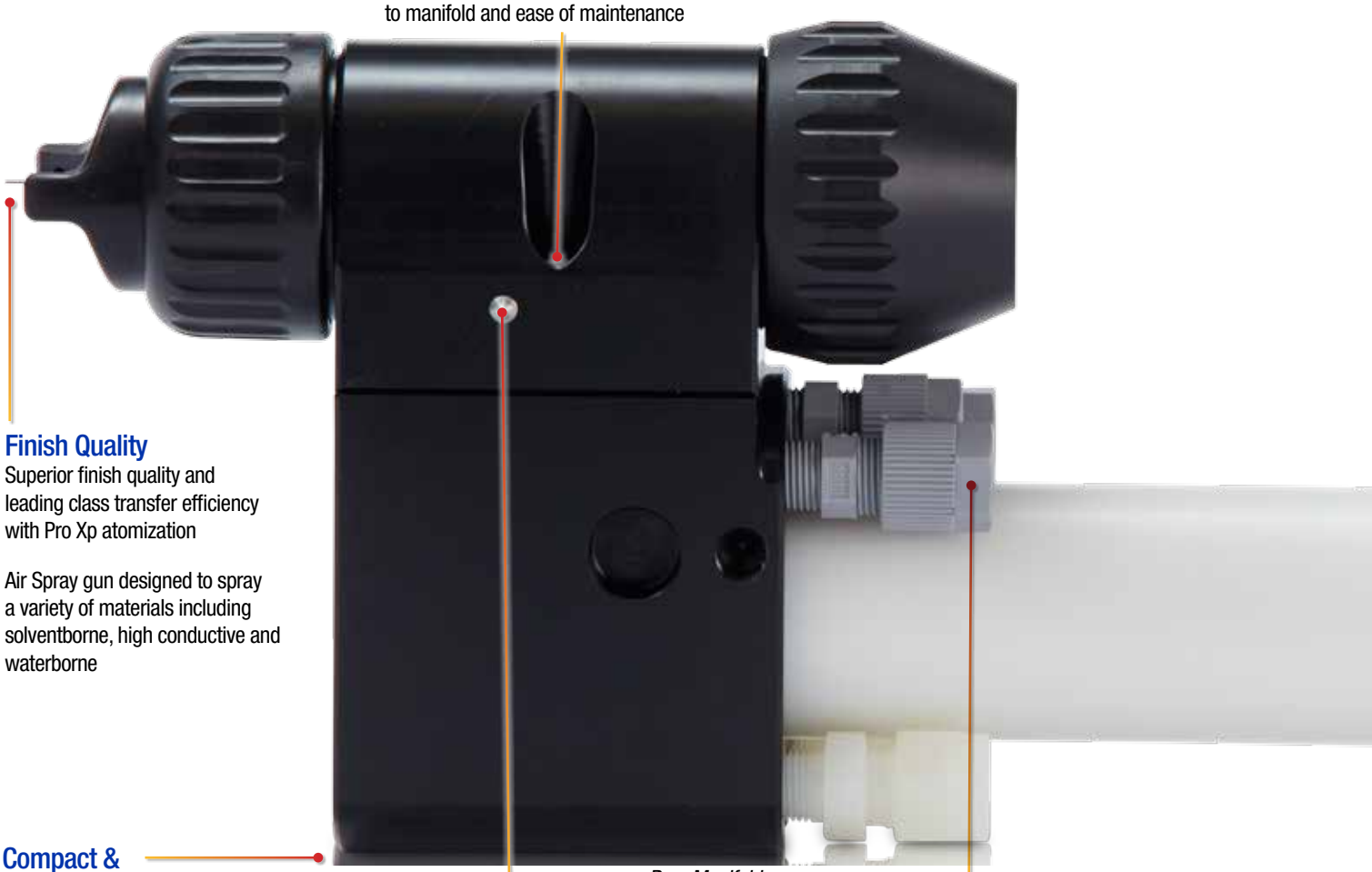
Invest in Safer Equipment

It's no secret that high voltage carries a risk when it's running throughout the booth. That's why the Pro Xpc Auto was designed with a 100 kV power supply and low voltage cable connection to the gun. Not only does this improve safety the Pro Xpc Auto Controller has arc detection software that automatically shuts off electrostatics when a part is too close to the gun.

Well-Equipped for Impressive Performance

With more customers expecting virtually flawless paint finishes with superhuman consistency and throughput, compromising on gun performance is not an option. The Pro Xpc Auto offers superior finish quality with legendary Pro Xp atomization. Not only does it have patent pending charge points to reduce wrapback and improve coverage, it has a 100 kV power supply that gives you higher transfer efficiency.

Sprayhead Attachment
Two nylon screws for positive connection to manifold and ease of maintenance



Rear Manifold

Finish Quality
Superior finish quality and leading class transfer efficiency with Pro Xp atomization

Air Spray gun designed to spray a variety of materials including solventborne, high conductive and waterborne

Compact & Lightweight
Spray in tight spaces and corners with compact design

Weight makes it ideal for robots and fixtures with lower payloads (2 lb/0.91 kg)

Charge Points
Prevent wrap back and increase transfer efficiency with patent pending charge points

Manifold Options
Accommodates all fluid and air connections and power supply with rear or bottom manifold

BOTTOM MANIFOLD
Ideal for robot mounting

REAR MANIFOLD
Ideal for fixed or reciprocator mounting

Controller

Communicate with Your System

Optimize spray parameters and get easy system integration with the Pro Xpc Auto Controller.

- 250 user settable presets for spraying flexibility with a wide variety of part sizes and shapes
- Voltage and current can be independently adjusted to meet manufacturing needs
- Full system integration with PLC or switchbox control
- Eliminate servicing guesswork with 4 programmable maintenance reminders
- Automatically shut off electrostatics when a part is too close to the gun with arc detection software
- Panel or wall mount for easy installation

100 kV Power Supply

Low voltage cable connection to gun improves safety and reliability while reducing cost and complexity of the system

Mount onto Your System

Hollow Wrist
Bottom Manifold

Solid Wrist
Bottom Manifold

Solid Wrist
Rear Manifold

FIXED/RECIPROCATOR MOUNT

1 in (2.5 cm) diameter bar for stable mounting to a variety of configurations.

ROBOT MOUNT

- Accomodates the bottom or rear manifold for various settings
- Gun can be positioned for a solid wrist or hollow wrist robot
- Setting for 60 or 90 degree gun position
- Adaptor plates available to fit a variety of robot models

Ordering Information

STEP 1 Choose Solventborne or Waterborne gun model

Solventborne gun – 100 kV gun with ability to spray materials with a resistivity down to 3 megohm/cm

Waterborne gun – 60 kV gun for waterborne material

STEP 2 Choose Rear manifold or Bottom manifold gun

	Part No.
Rear manifold gun for solventborne material	LC1020
Rear manifold gun for waterborne material	LC1028
Bottom manifold gun for solventborne material	LC2020
Bottom manifold gun for waterborne material	LC2028

Gun Models include aircap part number 24N477 and 1.5 mm (0.055 in) nozzle part number 24N616

Rear Manifold Gun
with robot mount

Bottom Manifold Gun
with robot mount

STEP 3 Determine mount needed for installation

	Part No.
Fixed/Reciprocator Mount – 1 in diameter bar (2.5 cm)	24L044
Robot Mount for hollow or solid wrist robot	24L050

Robot Adaptors	Part No.
Motoman EXP1250	24Y128
Motoman PX1450 and PX2850	24Y129
Motoman EXP2050	24Y634
Motoman EXP2700, 2800 and 2900	24Y650

Robot Adaptors	Part No.
Fanuc Paint Mate 200iA and 200iA/5L	24Y768
Fanuc P-145	24Y769
ABB IRB 540	24Y172
ABB IRB 1400	24Y173
ABB IRB 580 and 5400	24Y634

STEP 4 Determine length of power cable needed from the gun to the controller

	Part No.
Power Cable 35 ft (11 m)	17H040
Power Cable 65 ft (20 m)	17H041
Power Cable 100 ft (30 m)	17H042

STEP 5 Order ProXpc Auto Controller

	Part No.
Controller for solventborne materials includes power supply cord and I/O cable 65 ft (20 m)	24Y307
Controller for waterborne materials includes power supply cord and I/O cable 65 ft (20 m)	24Y308

	Part No.
Bracket for mounting controller to a wall	17H288

Controller

Technical Specifications

Pro Xpc Auto Gun	
Maximum Fluid Working Pressure	100 psi (7 bar, 0.7 MPa)
Maximum Working Air Pressure	100 psi (7 bar, 0.7 MPa)
Minimum Cylinder Actuating Pressure	50 psi (3.4 bar, 0.34 MPa)
Maximum Fluid Operating Temperature	120°F (48°C)
Paint Resistivity Range Solventborne Gun	3 megohm/cm to infinity
Paint Resistivity Range Waterborne Gun	≤3 megohm/cm
Short Circuit Current Output	150 microamperes
Gun Weight (approx. depending on gun model)	2.0 lb (0.9 kg)
Gun Length	5.7 in (14.5 cm)
Voltage Output	
Solventborne Models	0-100 kV
Waterborne Models	0-60 kV
Inlet/Outlet Sizes	
Atomizing Air Inlet Fitting	5/16 in (8 mm) OD nylon tube
Fan Air Inlet Fitting	5/16 in (8 mm) OD nylon tube
Cylinder Air Inlet Fitting	1/4 in (6 mm) OD nylon tube
Fluid Inlet Fitting	1/4 in (6 mm) PFE tube

Pro Xpc Auto Gun Controller	
Input Voltage	100-240 VAC
Frequency	50-60Hz
Dimensions	
Width	6.8 in (17.3 cm)
Depth	4.8 in (12.2 cm)
Height	7.5 in (19.1 cm)
Weight	4.5 lb (2.0 kg)

Instruction Manuals	
Pro Xpc Auto Gun	332992
Pro Xpc Auto Controller	333266

Ordering Information

Accessories

Aircap Selection Chart

Part Number (color)	Pattern Shape	Length in (mm)	Recommended Fluid Viscosity cp at 70°F (21°C)	Recommended Production Rates
24N477 (black)*	Round end	15-17 (381-432)	Light to medium (20–70 cp)	Up to 15 oz/min (450 cc/min)
24N438 (black)	Round end	15-17 (381-432)	Light to medium (20–70 cp)	Up to 15 oz/min (450 cc/min)
24N279 (black)	Round end	14-16 (356-406)	Medium to heavy (70–260 cp), and high solids (360+cp)	Up to 15 oz/min (450 cc/min)
24N376 (black), 24N276 (blue) 24N277 (red), 24N278 (green)	Tapered end	17-19 (432- 483)	Light to medium (20–70 cp)	Up to 15 oz/min (450 cc/min)
24N274 (black)	Tapered end	12-14 (305-356)	Light to medium (20–70 cp)	Up to 15 oz/min (450 cc/min)
24N275 (black)	Tapered end	14-16 (356-406)	Light to medium (20–70 cp), and high solids (360+cp), aerospace coatings	Up to 25 oz/min (750 cc/min)
24N439 (black)	Tapered end	11–13 (279–330)	For use with 2.0 mm nozzles. Medium to heavy (70–260 cp), and high solids (360+cp)	Up to 20 oz/min (600 cc/min)
24N453 (black)	Round end	14-16 (356-406)	Light to medium (20-70 cp)	Up to 15 oz/min (450 cc/min)

All aircap pattern shapes and lengths in the above chart were measured with the following conditions:

- Distance to target: 10 in (254 mm)
- Inlet air pressure: 50 psi (3.4 bar, 34 kPa)
- Fan air: adjusted for maximum width
- Fluid flow rate: 10 oz/min (300 cc/min)

*Included with gun

Nozzle Selection Chart

Fluid Nozzle for Standard Materials

Part Number	Color	Orifice Size - mm (inch)
24N619	Black	0.55 (0.022)
24N613	Black	0.75 (0.029)
24N614	Black	1.0 (0.042)
24N615	Black	1.2 (0.047)
24N616*	Black	1.5 (0.055)
24N617	Black	1.8 (0.070)
24N618	Black	2.0 (0.080)

*Included with gun

High Wear Fluid Nozzle for Abrasive Materials

Part Number	Color	Orifice Size - mm (inch)
24N620	Blue	0.75 (0.029)
24N621	Blue	1.0 (0.042)
24N622	Blue	1.2 (0.047)
24N623	Blue	1.5 (0.055)
24N624	Blue	1.8 (0.070)
24N625	Blue	2.0 (0.080)

Gun Accessories

Part Number	Description
24Y403	Gun Covers Rear Mount. Box of 10.
24Y404	Gun Cover Bottom Mount. Box of 10.
24X794	Round Spray Kit. To convert a standard air spray gun to a round spray aircap.
24N704	Electrode Replacement Needle for abrasive materials. Blue.
24Y325	Coiled Fluid Tube Rear Manifold
24Y328	Coiled Fluid Tube Bottom Manifold

Approvals for Pro Xpc Auto Guns**

CE 0359 Ex II 2G < 0.24mJ

PTB 15 ATEX 5009

EN 50050-1

EN 50176

**Patent pending

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Call today for product information or to request a demonstration.

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