



# Pro Xpc™ Auto

Automatic Electrostatic Air Spray Guns



PROVEN QUALITY. LEADING TECHNOLOGY.

## Ordering Information



## 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 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.



# 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

## 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

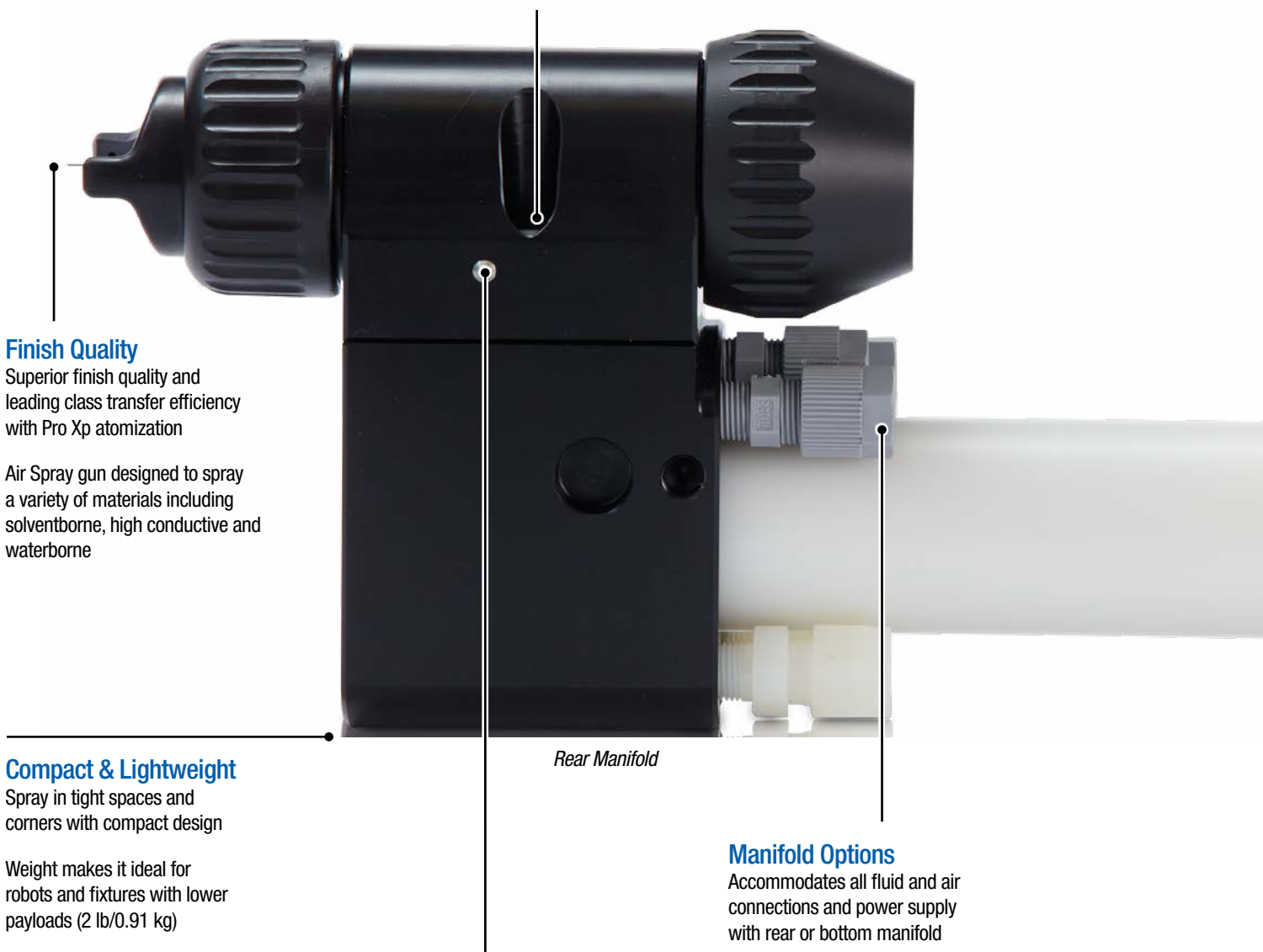
Accommodates all fluid and air connections and power supply with rear or bottom manifold

### **BOTTOM MANIFOLD**

Ideal for robot mounting

### **REAR MANIFOLD**

Ideal for fixed or reciprocator mounting





Controller

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

- Accommodates 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

## 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

## 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 air cap 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

## 3 Determine mount needed for installation

	Part No.
Fixed/Reciprocator Mount – 2.5 cm diameter bar (1 in)	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

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

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



## 5 Order Pro Xpc 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	7 bar (100 psi, 0.7 MPa)
Maximum Working Air Pressure	7 bar (100 psi, 0.7 MPa)
Minimum Cylinder Actuating Pressure	3.4 bar (50 psi, 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)	0.9 kg (2.0 lb)
Gun Length	14.5 cm (5.7 in)
Voltage Output	
Solventborne Models	0-100 kV
Waterborne Models	0-60 kV
Inlet/Outlet Sizes	
Atomizing Air Inlet Fitting	8 mm (5/16 in) OD nylon tube
Fan Air Inlet Fitting	8 mm (5/16 in) OD nylon tube
Cylinder Air Inlet Fitting	6 mm (1/4 in) OD nylon tube
Fluid Inlet Fitting	6 mm (1/4 in) PFE tube

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

Pro Xpc Auto Gun	
Pro Xpc Auto Gun	332992
Pro Xpc Auto Controller	333266

## Air cap Selection Chart

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

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

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

\*Included with gun

## Nozzle Selection Chart

### Fluid Nozzle for Standard Materials

Part Number	Colour	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	Colour	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 air cap. 1.2 (0.047)
24N704	Electrode Replacement Needle for abrasive materials. Blue. 1.5 (0.055)
24Y325	Coiled Fluid Tube Rear Manifold 1.8 (0.070)
24Y328	Coiled Fluid Tube Bottom Manifold 2.0 (0.080)

## Approvals for Pro Xpc Auto Guns\*\*



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.

Graco is certified ISO 9001.

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