Pro Xp™

Electrostatic Spray Guns
That Deliver Expert Performance

PROVEN QUALITY. LEADING TECHNOLOGY.

Choose PRO Xp

Experienced Painters rely on

Expert Performance

Pro Xp

We took our trademark, high performing Electrostatic Spray Guns and made them better. **They are smaller, lighter and designed to maximize your profits.**

And with **more models** to choose from, you will get the same performance you have come to expect from Graco – now with greater spraying flexibility for your ever changing production needs.

Stand Out Above the Rest

With state-of-the-art technology and consistently better finishes

With an excellent finish quality, air caps and spray tips that are designed to deliver an even higher quality finish, the Pro Xp is a real stand out! Furthermore, every gun is tested and delivered with a certificate indicating the spray pattern, mechanical performance and electrical performance which meet Graco's requirements and your expectations. With more models to choose from, you will get the performance you expect – now with greater spraying flexibility for ever-changing production needs.

Perform Above The Rest

- Each electrostatic gun meets strict requirements for spray pattern, mechanical and electrical performance
- Aircaps and spray tips deliver a superior quality finish in any application
- High transfer efficiency equals less waste, saving you money on material

Ready-to-spray guns for different applications

- More models bring flexibility to paint line production needs
- Application-specific guns fulfill requirements out-of-the-box – without having to retrofit with accessories

Built-in Dependability

Stay Running Longer
Durable components give you extra peace of mind knowing that you will spend less time fixing and more time spraying.

Lower Cost of Ownership
A 3-Year Warranty, ease of repair and durable components reduce ownership costs.

Increase Productivity

Reduce Muscle Strain
The smaller and lighter gun body is well-balanced making it easier to spray at a steady rate all day.

Reduce Operator Fatigue
No more heavy power cords to slow you down. The power supply is built into the gun for added efficiency.

Increase Operator Comfort
The ergonomic handle is designed to fit comfortably in sprayer's hand.

Maximize Your Profits

Spray More with Less
The 40 kV Booster gun gives you the transfer efficiency of a 60 kV gun, in a smaller, more compact size.

Save Money
A higher transfer efficiency equals less waste – saving you money on material.

Save on Energy Costs
New air caps use less air and help lower your energy bill.

Stand Out Above the Rest

Continually improving durability, adjustment ease and spray performance

Smart Controls

Analyze Spray Performance
The bar graph shows kV and current, while the alternator speed indicator displays electrostatic performance.

Adapt to Your Voltage Needs
Adjust quickly between a low or high kV. Change the low setting in 5 kV increments with the push of a button.

Eliminate Guesswork
Diagnostic mode assists troubleshooting with a digital display of actual voltage, current and hertz.

Quick Smart Display Changeout
Remove a cartridge quickly and easily when it needs to be replaced.

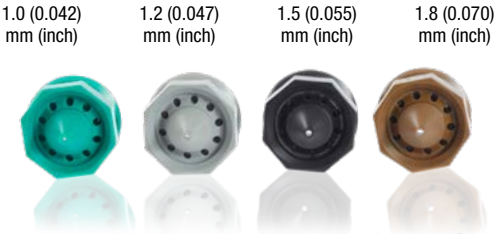
Now available as a 40 kV Smart Gun
In addition to the 60 and 85 kV Smart Guns.

High Conductivity Kits

Durability
The more durable fluid tube improves longevity when spraying low resistivity materials, such as abrasives and metallic coatings

Multiple Kits
40 kV, 60 kV, and 85 kV high conductivity kits available with a removable black fluid tube cover that allow the operator to view fluid movement (or with only a see through protective cover)

Easy-to-Size Nozzles



Color Coding
New color-coding makes it easy to see the right size.

Improved Durable Components

Precision High Wear Nozzles (PHW)
Nozzles have a metal tip for high wear protection in the fluid path and drop protection on the outer edge

High Wear Electrodes
Three high wear electrode options designed for unique customer needs

Quick Fan Adjust

Operators have the ability to spray a full fan pattern or a narrow pattern with the spring loaded quick fan knob.

The Right Equipment for Your Application

Ready to spray out-of-the-box

Whatever your application, we have the electrostatic spray gun model for you. You asked. We listened. Our new Pro Xp air spray models are designed to support your application needs. They come ready to spray out-of-the-box – without modifications.

Round Spray

Two new round spray nozzle and air cap combinations boost transfer efficiency on a gun model or as an accessory.

- Bell-like round spray and electrostatics maximize wrap around cylindrical objects.
- The round spray forms small to medium patterns at lower fluid flow rates with less airflow. This low velocity spray allows for minimal overspray.

Soft Spray

The soft spray gun models are ideal for spraying small, lightweight parts with a high quality finish.

Reduced acceleration of atomizing air helps keep the part in place while it is being sprayed, resulting in consistent small part coverage and transfer efficiency.

Aerospace

Don not let the name fool you. This electrostatic spray gun is not just for painting airplanes. It's for whenever you need to quickly cover large areas with the finest finish.

The aerospace aircap is engineered to atomize at high paint flow rates. The gun models include durable components made for spraying high solid materials and somewhat abrasive coatings.

Fixed Fluid Flow

This gun model is made to last when applying extremely abrasive materials. The absence of use of fluid adjustment knob eliminates reducing fluid flow at the gun.

- An electrostatic on/off with a fixed fluid valve extends electrode and nozzle life
- More durable electrodes and nozzles extend applicator life

HVLP

The High Volume Low Pressure (HVLP) air cap is labeled according to environmental standards. When used with the electrostatics off, this paint spray gun model still meets HVLP requirements.

High Air Flow

A built-in air restrictor limits airflow – and wear – to the turbine and sends maximum airflow to the air cap. This gives painters the feel and reach they need to paint from a distance and around large, complex areas.

Smaller, Lighter & Superior Quality Spray

Pro Xp Air-Assist Gun

Get a more consistent, high quality finish every time you spray! Plus, the 60 kV gun is the smallest and lightest air-assist gun on the market.

Available in 60 & 85 kV

Fan Adjust Pattern Control

Reduce overspray by changing the fan pattern width according to the size of parts

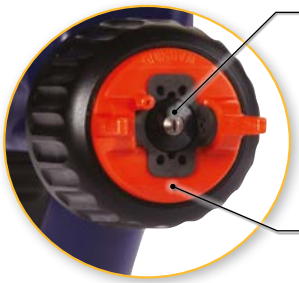
Internal Power Supply

Reduce operator fatigue with no heavy cords to slow you down

Fluid Filter

Integrated filter reduces clogging by keeping debris out of the tip

Four mesh sizes available



AEM & AEF Air-Assist Tip Lines

- AEM Tip - Delivers a high quality finish for a variety of applications
- AEF Tip - Designed with a pre-orifice which helps atomize paints for fine finish applications

More Efficient Air-Assist Aircap

- Increase transfer efficiency by up to 10 %
- Improve spray performance and cleanliness
- The one-piece aircap is indexed for accurate positioning

Pro Xp Air Spray Gun

Get consistent, high quality finishes every time you spray! All models are up to 2.5 cm (1 in) shorter and 110 g (4 oz) lighter – the smallest profile gun with an internal power supply on the market!

Available in 40, 60 & 85 kV

Internal Power Supply

Reduce operator fatigue with no heavy cords to slow you down

Alternator Speed Indicator

The indicator changes color with electrostatic performance on both standard and smart models

Control Knobs

Convenient, easy to access and large knobs allow for easier gun adjustment

Atomizing Air Control

Adjust air to fit your spraying needs

Ergonomic Handle

A smooth, curved handle for comfortable spraying

High Wear Components

Unique design for abrasive materials

Standard on High Conductivity guns

Light Trigger Pull

Reduces muscle strain and operator fatigue

Air Inlet Swivel

Increases maneuverability

40 kV Booster Gun

now with smart controls

Transfer Effiency

Get the transfer efficiency of a 60 kV gun in the compact size of a 40 kV gun.

Ergonomics

Smaller and lighter ergonomics make it ideal for operators who work in tight spaces.

Flexible

Available with a smart display or as standard models.

Consistent, high quality finishes with waterborne materials

Pro Xp WBx External Charge Waterborne Air Spray Gun

Reduce material and environmental costs without the expense and limitations of an electrostatic isolation system.

Waterborne material stays grounded in the gun and is charged at the tip of the electrostatic spray gun with the assistance of a probe.

Two probe options meet different customer needs.
- The long probe provides the best transfer efficiency and wrap
- The shorter probe is for low profile electrostatic charging

Pro Xp Mold Release (MR) Gun

Our unique model for spraying mold release materials delivers fine atomized particles in a low-pressure spray with a fine finish tip. It connects to an isolation system, like the WB 100, and sprays with an AEM or AEF spray tip.

Consistent, high quality finishes with a complete pump package

Pro Xp Electrostatic Spray Packages

Merkur™

Air-Assist Fine Finish Spray Packages

The Merkur® Air-Assist Fine Finish Spray Package pairs a Pro Xp Air-Assist Gun with a superior performance pump to provide consistent, class A finishes. Pump packages available in a variety of pressures, fluid outputs and configurations for your customers needs. For more information, please refer to Merkur Spray Packages brochure.

Triton®

Air-Operated Diaphragm Spray Packages

The Triton® Air Spray Package combines a Pro Xp Air Spray Gun with a Triton Air-Operated Diaphragm Pump to deliver a consistent spray pattern and uniform film thickness. This durable electrostatic spray gun and pump package requires little maintenance. For more information, please refer to Triton Spray Packages brochure.

WB3000™

Air-Assist Waterborne Isolation System

Paired with the Pro Xp WB Air-Assist gun, this portable isolation cabinet with Merkur ES 30:1 is designed to spray waterborne materials at high pressures. For more information, please refer to Electrostatic Pro Xp Waterborne brochure.

WB100™

Air Spray Waterborne Isolation System

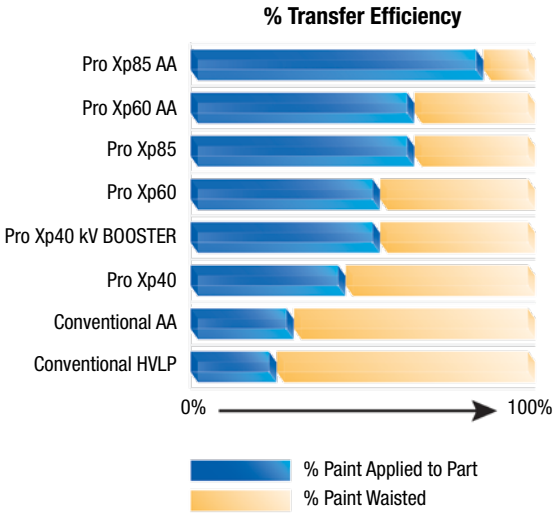
This portable cabinet with a Triton Pump isolates waterborne coatings. It works well with a Pro Xp Waterborne Air Spray Gun or the Pro Xp MR. For more information, please refer to Electrostatic Pro Xp Waterborne brochure.

Calculate Your Savings

Return on Investment

Use these ROI calculators to see how much you can save when you replace conventional air-assist and HVLP guns with Pro Xp Electrostatic Guns.

The Transfer Efficiency chart below shows how your savings increase as you move up the Pro Xp product line.



ROI Calculator

	Example Facility	Your Facility
Paint price per liter	15	
Liters sprayed per day	20	
Business days per month	20	
	(Multiply to get total)	(Multiply to get total)
One Month Material Cost	€ 6.000,-	

Pro Xp Air Spray Material Savings

Compared to Conventional HVLP

Pro Xp85	50%	
Pro Xp40 kV Booster	40%	
Pro Xp60	40%	
Pro Xp40	30%	
One Month Material Savings	**€ 3.000,-**	

	Example Facility	Your Facility
Paint price per liter	15	
Liters sprayed per day	20	
Business days per month	20	
	(Multiply to get total)	(Multiply to get total)
One Month Material Cost	€ 6.000,-	

Pro Xp Air-Assist Material Savings

Compared to Conventional Air-Assist

Pro Xp85	55%	
Pro Xp60	45%	

Compared to Conventional HVLP

Pro Xp85	60%	
Pro Xp60	50%	
One Month Material Savings	**€ 3.300,-**	

CLICK HERE to access our online ROI calculator for your business.

Technical Specifications

		PRO XP40	PRO XP60	PRO XP85	PRO XP60 AA	PRO XP85 AA	PRO XP WBX
Maximum Voltage Output		40 kV	60 kV	85 kV	60 kV	85 kV	60 kV
Maximum Working Fluid Pressure		7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)	210 bar (21 MPa, 3000 psi)	210 bar (21 MPa, 3000 psi)	**WB 100:** 7 bar (0.7 MPa, 100 psi) **WB 3000:** 210 bar (21 MPa, 3000 psi)
Maximum Working Air Pressure		7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)
Gun Weight (without hose)*		560 g (19.8 oz)	(600 g (21 oz)	675 g (23.8 oz)	660 g (23 oz)	728 g (25.7 oz)	560 g (19.8 oz)
Gun Length		22 cm (8.7 in)	24 cm (9.5 in)	26.5 cm (10.5 in)	24.5 cm (9.7 in)	27 cm (10.7 in)	22 cm (8.7 in)
Recommended paint resistivity range	**Standard**	25 MΩ/cm to ∞	25 MΩ/cm to ∞	25 MΩ/cm to ∞	3 MΩ/cm to ∞	3 MΩ/cm to ∞	–
	High Cond.	1 to 25 MΩ/cm	1 to 25 MΩ/cm	1 to 25 MΩ/cm	–	–	–
	Waterborne	–	≤ 1 MΩ/cm	–	≤ 1 MΩ/cm	–	≤ 1 MΩ/cm
Fluid Inlet		3/8 npsm(m)	3/8 npsm(m)	3/8 npsm(m)	1/4-18 npsm(m)	1/4-18 npsm(m)	3/8 npsm(m)
Air Inlet		1/4 npsm(m) left handed thread	1/4 npsm(m) left handed thread	1/4 npsm(m) left handed thread	1/4 npsm(m) left handed thread	1/4 npsm(m) left handed thread	1/4 npsm(m) left handed thread
Instruction Manual	**Standard**	3A2494	3A2494	3A2494	3A2495	3A2495	–
	Waterborne	–	3A2496	–	3A2497	–	3A4798

**Standard gun model. For other models reference the instruction manual.*

Ordering Information

Pro Xp Air Spray

1. Define your application.
2. Choose the gun model that fits your needs.

General Gun Models

Equipped with standard aircap, fluid tube, nozzle and electrode.

Part Number	Power Supply kV	Display Type	Nozzle Size	Recommended Coating Type
L40M10	40	Smart	1.5 mm (0.055 in)	Standard and Specialty Coatings
L40T10	40	Std	1.5 mm (0.055 in)	
L40T12	40	Std	1.2 mm (0.047 in)	
L60M10	60	Smart	1.5 mm (0.055 in)	
L60M12	60	Smart	1.2 mm (0.047 in)	
L60T10	60	Std	1.5 mm (0.055 in)	
L60T12	60	Std	1.2 mm (0.047 in)	
L60T21	60	Std	1.0 mm (0.039 in)	
L85M10	85	Smart	1.5 mm (0.055 in)	
L85M12	85	Smart	1.2 mm (0.047 in)	
L85T10	85	Std	1.5 mm (0.055 in)	
L85T12	85	Std	1.2 mm (0.047 in)	
L85T50*	85	Std	1.5 mm (0.055 in)	

** Equipped with a quick-adjust fan valve*

High Conductivity Gun Models

Equipped with a longer High Conductivity fluid tube for spraying lower resistivity material. Models are also equipped with high wear electrode, precision high wear nozzle, and standard air cap.

Part Number	Power Supply kV	Display Type	Nozzle Size	Recommended Coating Type
L40M16	40	Smart	1.5 mm (0.055 in)	Abrasive and Metallic Coating
L40T13	40	Std	1.5 mm (0.055 in)**	
L40T16	40	Std	1.5 mm (0.055 in)	
L40T26	40	Std	1.2 mm (0.047 in)	
L60M16	60	Smart	1.5 mm (0.055 in)	
L60M26	60	Smart	1.2 mm (0.047 in)	
L60T13	60	Std	1.5 mm (0.055 in)**	
L60T16	60	Std	1.5 mm (0.055 in)	
L60T26	60	Std	1.2 mm (0.047 in)	
L85M16	85	Smart	1.5 mm (0.055 in)	
L85M26	85	Smart	1.2 mm (0.047 in)	
L85T16	85	Std	1.5 mm (0.055 in)	
L85T26	85	Std	1.2 mm (0.047 in)	
L85T56*	85	Std	1.5 mm (0.055 in)	

* Equipped with a quick-adjust fan valve
** Equipped with standard nozzle

kV Booster Gun Models

The 40 kV Booster provides the transfer efficiency of a 60 kV gun in a smaller, more compact size. Equipped with standard aircap.

Part Number	Power Supply kV	Display Type	Nozzle Size	Recommended Coating Type
L40M14	40	Smart	1.5 mm (0.055 in)	General
L40M15	40		1.5 mm (0.055 in)	High Conductivity ▲
L40T14	40	Std	1.5 mm (0.055 in)	General
L40T15	40		1.5 mm (0.055 in)	High Conductivity ▲

▲ High Conductivity gun models include a High Conductivity Fluid Tube, High Wear Nozzle and High Wear Electrode.

Round Spray Gun Models

Equipped with a round spray nozzle and air cap. Standard fluid tube, nozzle and electrode.

Part Number	Power Supply kV	Display Type	Nozzle/Aircap	Pattern Size
L40T31	40	Std	Small Pattern	102 mm (4 in)
L60T31	60			
L85T31	85			
L40T32	40		Medium Pattern	152 mm (6 in)
L60T32	60			
L85T32	85			
L60T11	60		Large Pattern	203 mm (8 in)

Soft Spray Gun Models

Equipped with a soft spray air cap, standard fluid tube, nozzle and electrode.

Part Number	Power Supply kV	Display Type	Nozzle Size	Recommended Coating Type
L40T71	40	Std	1.0 mm (0.039 in)	Standard Coatings on small lightweight parts
L60M71	60	Smart	1.0 mm (0.039 in)	
L60T71	60	Std	1.0 mm (0.039 in)	
L60M72	60	Smart	1.2 mm (0.047 in)	
L60T72	60	Std	1.2 mm (0.047 in)	
L85M71	85	Smart	1.0 mm (0.039 in)	
L85T71	85	Std	1.0 mm (0.039 in)	

Aerospace Gun Models

Equipped an with aerospace air cap, high wear electrode, and precision high wear nozzle.

Part Number	Power Supply kV	Display Type	Nozzle Size	Recommended Coating Type
L85T73	85	Std	1.2 mm (0.047 in)	High solids and aerospace coatings
L85T75	85		1.5 mm (0.055 in)	
L85T78	85		1.8 mm (0.071 in)	

Fixed Fluid Flow Gun Models

Equipped with an ES On-Off and Fixed Fluid Valve, which extends the electrode and nozzle life. For applications with abrasive, metallic, and extremely abrasive materials. Models are also equipped with standard air cap and precision high wear nozzle.

Part Number	Power Supply kV	Display Type	Nozzle Size	Electrode	Fluid Tube
L60T98	60	Std	1.5 mm (0.055 in)	Short	Standard
L60T99	60		1.5 mm (0.055 in)	Short	High Conductivity
L85T90	85		1.5 mm (0.055 in)	High Wear	Standard
L85T96	85		1.5 mm (0.055 in)	High Wear	High Conductivity

High Air Flow Gun Models

Equipped with an ES On-Off with Air Restrictor and Fluid Adjustment Valve, which limits air flow to the turbine. For applications that require high air flow at the air cap. Models are also equipped with standard air cap, fluid tube, nozzle and electrode.

Part Number	Power Supply kV	Display Type	Nozzle Size	Recommended Coating Type
L60M57	60	Smart	1.5 mm (0.055 in)	Standard and specialty coatings
L60T57	60	Std	1.5 mm (0.055 in)	
L85M57	85	Smart	1.5 mm (0.055 in)	
L85T57	85	Std	1.5 mm (0.055 in)	

HVLP Gun Models

Equipped with a HVLP air cap, standard fluid tube, nozzle and electrode.

Part Number	Power Supply kV	Display Type	Nozzle Size	Recommended Coating Type
L40M77	40	Smart	1.5 mm (0.055 in)	Standard
L40T77	40	Std	1.5 mm (0.055 in)	
L60M77	60	Smart	1.5 mm (0.055 in)	
L60T77	60	Std	1.5 mm (0.055 in)	
L85M77	85	Smart	1.5 mm (0.055 in)	
L85T77	85	Std	1.5 mm (0.055 in)	

Ordering Information

Pro Xp Air Spray

Aircap Selection Chart

Part Number (color)	Pattern Shape	Length cm (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)
24W279 (green)	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)
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)

- 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)

Specialty Pattern Air Cap Selection Chart

Part Number (color)	Description	Pattern Shape	Length cm (in)	Recommended Fluid Viscosity cp at 21°C (70°F)	Recommended Production Rates
24N275 (black)	Aerospace	Tapered end	356-406 (14-16)	Light to heavy (20–360 cp), high solids (360+)	Up to 750 cc/min (25 oz/min)
24N279 (black)	High Solids	Round end	356-406 (14-16)	Medium to heavy (70–360 cp), high solids (360+)	Up to 450 cc/min (15 oz/min)
24N439 (black)	High Flow	Tapered end	279-330 (11-13)	Medium to heavy (70–360 cp), high solids (360+)	Up to 600 cc/min (20 oz/min)
25E670 (black)	Soft Spray	Round end	254-305 (10-12)	Light to medium (20–70 cp)	Up to 300 cc/min (10 oz/min)
25E671 (black)	HVLP	Round end	279-330 (11-13)	Light to medium (20–70 cp)	Up to 450 cc/min (15 oz/min)

Round Spray Pattern Air Cap Selection Chart

Part Number	Pattern Shape	Description	Nominal Pattern Diameter mm (in)	Recommended Fluid Viscosity cp at 21°C (70°F)	Recommended Production Rates
25N836	Small Pattern	Dual inner and outer atomizing air design for improved atomization at low air flows	102 (4)	Light to medium (20–70 cp)	100 cc/min to 300 cc/min (3 oz/min to 10 oz/min)
25N837	Medium Pattern	Dual inner and outer atomizing air design for improved atomization at low air flows	152 (6)	Light to medium (20–70 cp)	100 cc/min to 300 cc/min (3 oz/min to 10 oz/min)
24N318	Large Pattern	Conventional round pattern design for larger patterns	203 (8)	Light to medium (20–70 cp)	100 cc/min to 300 cc/min (3 oz/min to 10 oz/min)

Round Spray Air Cap

Nozzles Selection Chart

Color Coded Fluid Nozzle for Standard Materials

Part Number	Color	Orifice Size - mm (inch)
24N619	Black	0.55 (0.022)
24N613	Black	0.75 (0.029)
25N895	Green	1.0 (0.042)
25N896	Gray	1.2 (0.047)
24N616	Black	1.5 (0.055)
25N897	Brown	1.8 (0.070)
24N618	Black	2.0 (0.080)

High Wear Fluid Nozzles (color coded)

High Wear Fluid Nozzle (HW) for Abrasive Materials
hardened ceramic seat, for abrasives and metallics

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)

Precision high wear nozzles (PHW)
for Abrasive Materials
hardened SST seat and damage resistant SST tip; for standard coatings, abrasives, and metallics

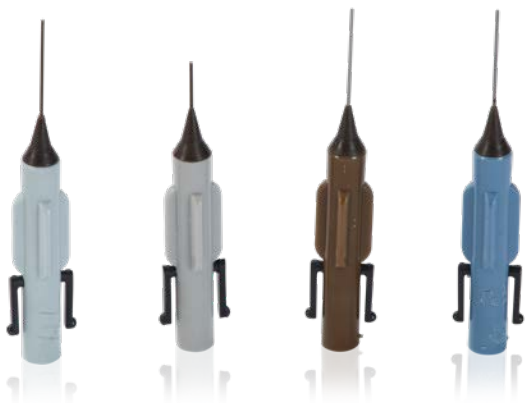
Part Number	Color	Orifice Size - mm (inch)
25N831	Green	1.0 (0.042)
25N832	Gray	1.2 (0.047)
25N833	Black	1.5 (0.055)
25N834	Brown	1.8 (0.070)

Precision High Wear Fluid Nozzles (color coded)

Electrode Selection Chart

Part Number	Color	Description	Guidelines for Use
24N651	Gray	Standard	Electrode assembly with a flexible snap-back wire.
25N856	Gray	Short	Electrode assembly with a short snap-back wire. Extends wear life of the electrode wire when using extremely abrasive materials.
24N704	Blue	High wear (HW)	Electrode assembly with a hard wire. Extends wear life of the wire with abrasive materials.
25N857	Brown	Hardened	Electrode assembly with a hardened carbide wire. Extends wear life of the wire with extremely abrasive materials.

Electrodes



Air-Assist Gun Models

Air-Assist Gun Models

Part Number	Power Supply kV	Recommended Coating Type	Display Type
H85T10	85	Standard	Standard
H85M10	85	Standard	Smart
H60T10	60	Standard	Standard
H60M10	60	Standard	Smart
H85T57*	85	Standard	Standard
H85M57*	85	Standard	Smart

All gun models include a AEM or AEF tip of your choice.
* Equipped with ES on-off with air restrictor for limiting air flow to the turbine. For applications that require high air flow at the air cap.

AEF Fine Finish Pre-Orifice Spray Tips

Recommended for high finish quality applications at low and medium pressures. AEF tips have a pre-orifice that assists in atomizing sheer thinning materials.
Order the desired tip, Part No. AEFxxx, where xxx = 3-digit number from the matrix below.

Orifice Size mm (inch)	Fluid Output l/min (fl oz/min)		Maximum Pattern Width at 305 mm (12 inches) mm (inches)					
	at 41 bar (4.1 MPa, 600 psi)	at 70 bar (7.0 MPa, 1000 psi)	150-200 (6-8)	200-250 (8-10)	250-300 (10-12)	300-350 (12-14)	350-400 (14-16)	400-450 (16-18)
			Spray Tip					
0.203 (0.008)	0.25 (8.5)	0.32 (11.0)				608		
0.254 (0.010)	0.28 (9.5)	0.37 (12.5)	310	410	510	610	710	810
0.305 (0.012)	0.35 12.0)	0.47 (16.0)	312	412	512	612	712	812
0.356 (0.014)	0.47 (16.0)	0.62 (21.0)	314	414	514	614	714	814
0.406 (0.016)	0.59 (20.0)	0.78 (26.5)	–	416	516	616	716	–

* Tips are tested in water.
Fluid output (Q) at other pressures (P) can be calculated by this formula: $Q = (0.041)\ (QT)\ \sqrt{P}$ where QT = fluid output (l/min) at 41 bar from the above table for the selected orifice size.

AEM Spray Tips

Recommended for high finish quality applications at low and medium pressures.
Order the desired tip, Part No. AEMxxx, where xxx = 3-digit number from the matrix below.

Orifice Size mm (inch)	Fluid Output l/min (fl oz/min)		Maximum Pattern Width at 305 mm (12 inches) mm (inches)							
	at 41 bar (4.1 MPa, 600 psi)	at 70 bar (7.0 MPa, 1000 psi)	50-100 (2-4)	100-150 (4-6)	150-200 (6-8)	200-250 (8-10)	250-300 (10-12)	300-350 (12-14)	350-400 (14-16)	400-450 (16-18)
			Spray Tip							
0.178 (0.007)	0.1 (4.0)	0.15 (5.2)	107	207	307	–	–	–	–	–
0.229 (0.009)	0.2 (7.0)	0.27 (9.1)	–	209	309	409	509	609		–
0.279 (0.011)	0.3 (10.0)	0.4 (13.0)	–	211	311	411	511	611	711	–
0.330 (0.013)	0.4 (13.0)	0.5 (16.9)	–	213	313	413	513	613	713	813
0.381 (0.015)	0.5 (17.0)	0.7 (22.0)	–	215	315	415	515	615	715	815
0.432 (0.017)	0.7 (22.0)	0.85 (28.5)	–	217	317	417	517	617	717	–
0.483 (0.019)	0.8 (28.0)	1.09 (36.3)	–	–	319	419	519	619	719	–
0.533 (0.021)	1.0 (35.0)	1.36 (45.4)	–	–	–	421	521	621	721	821
0.584 (0.023)	1.2 (40.0)	1.56 (51.9)	–	–	–	423	523	623	723	823
0.635 (0.025)	1.5 (50.0)	1.94 (64.8)	–	–	–	425	525	625	725	825
0.736 (0.029)	1.9 (68.0)	2.65 (88.2)	–	–	–	–	–	–	–	829
0.787 (0.031)	2.2 (78.0)	3.03 (101.1)	–	–	–	431	–	631	–	831
0.838 (0.033)	2.5 (88.0)	3.42 (114.1)	–	–	–	–	–	–	–	833
0.939 (0.037)	3.1 (108.0)	4.20 (140.0)	–	–	–	–	–	–	737	
0.990 (0.039)	3.4 (118.0)	4.59 (153.0)	–	–	–	–	539	–	–	–

* Tips are tested in water.
Fluid output (Q) at other pressures (P) can be calculated by this formula: $Q = (0.041)\ (QT)\ \sqrt{P}$ where QT = fluid output (l/min) at 41 bar from the above table for the selected orifice size.

Air-Assist Round Spray Tips

Part #24N319 — Round Spray Conversion Kit can be used to convert a standard air-assist spray gun to a round spray aircap. A tip from the below chart is required.

Part Number	Size Number	Approximate Flow Rates for Light to Medium Viscosity Coatings (20–40 centipoise)*		
		21 bar (2.1MPa, 300 psi)	42 bar (4.2 MPa, 600 psi)	84 bar (8.4 MPa, 1200 psi)
236836	4A	73 cc/min (2.5 oz/min)	120 cc/min (4.1 oz/min)	170 cc/min (5.7 oz/min)
236837	6A	86 cc/min (2.9 oz/min)	150 cc/min (5.1 oz/min)	220 cc/min (7.4 oz/min)
236838	7A	95 cc/min (3.2 oz/min)	160 cc/min (5.4 oz/min)	230 cc/min (7.8 oz/min)
236839	5B	160 cc/min (5.4 oz/min)	230 cc/min (7.8 oz/min)	330 cc/min (11.0 oz/min)
236840	7B	210 cc/min (7.1 oz/min)	270 cc/min (9.1 oz/min)	420 cc/min (14.2 oz/min)
236841	9B	260 cc/min (8.8 oz/min)	350 cc/min (11.8 oz/min)	530 cc/min (17.9 oz/min)
236842	11B	350 cc/min (11.8 oz/min)	480 cc/min (16.2 oz/min)	700 cc/min (23.7 oz/min)

* Flows are based on white acrylic, enamel paint.

See Round Spray Kit manual 3A2499 for more information

Air-Assist Gun Inline Fluid Filter Kits

Filter Kit Part No.	Filter Size	Quantity
224453	60 mesh	5
238563		3
238564		1
238561	100 mesh	3
238562 (included in gun models)		1
25N891	150 mesh	1
25N892		3
25N893	200 mesh	1
25N894		3

Ordering Information

WBx External Charge Waterborne Air Spray Gun Models

Pro Xp 40 kV WBx Gun Models

Part Number	Description
L40M28	Smart 40 kV air spray gun
L40T28	Standard 40 kV spray gun

Probe Kit

Part Number	Description
25E639	Long probe kit includes 2 probes
25E664	Short probe kit includes 2 probes

Waterborne Gun Models

Air Spray Gun Models

For low pressure spraying with an isolation system including the WB100

Part Number	Item	Description
L60T17	Pro Xp60 WB	Standard electrostatic air spray gun for waterborne coatings.
L60M17	Pro Xp60 WB	Smart electrostatic air spray gun for waterborne coatings.

For a complete list of parts and accessories, refer to the Pro Xp Waterborne Manual 3A2496.

Air-Assisted Gun Models

For high pressure spraying with an isolation system including the WB3000

Part Number	Item	Description
H60T18	Pro Xp60 AA WB	Standard electrostatic air-assist gun for waterborne coatings.
H60M18	Pro Xp60 AA WB	Smart electrostatic air-assist gun for waterborne coatings.

For a complete list of parts and accessories, refer to the Pro Xp Waterborne Manual 3A2497.

Mold Release (MR) Gun

Part Number	Item	Description
L60M19	Pro Xp60 MR	Smart electrostatic air spray gun for waterborne mold release coating applications. Requires an AEM or AEF spray tip for operation.

Gun Model Accessories

Grounded Air Hoses (required for use)

Length	Air Flex™	Air Flex with QD	Standard	Waterborne*
1.8 m (6 ft)	244963	–	223068	235068
4.6 m (15 ft)	244964	–	223069	235069
7.6 m (25 ft)	244965	24N736	223070	235070
11 m (36 ft)	244966	24N737	223071	235071
15 m (50 ft)	244967	24N738	223072	235072
23 m 7(5 ft)	244968	–	223073	235073
30.5 m (100 ft)	244969	–	223074	235074

Air Flex: EPDM rubber core and cover for extra flexibility.

Air Flex with QD: The hose includes a Quick Disconnect coupling, part number 112534

Standard: Modified semi-conductive polyamide core, urethane cover for added durability.

*Waterborne (required for isolated waterborne applications): Conductive SST wire braid for grounding. Polyurethane tube and cover.

Operator Accessories

Part Number	Description
117823	Conductive Gloves, box of 12 (small)
117824	Conductive Gloves, box of 12 (medium)
117825	Conductive Gloves, box of 12 (large)
24N603	Gun Covers. For 40 kV and 60 kV guns. Box of 10.
24N604	Gun Covers. For 85 kV guns. Box of 10.
24N758	Display Covers. Keeps Smart display clean. Package of 5.
24N520	Comfort Grip. Snap-on grip increases handle size to reduce operator fatigue. Medium size.
24N521	Comfort Grip. Snap-on grip increases handle size to reduce operator fatigue. Large size.
24P170	Metal trigger to replace standard trigger.
24P171	Four-finger Trigger Kit. To convert Pro Xp air spray guns to a four-finger trigger.

Adjustment Knob Accessories

Part Number	Description
25N919	Quick adjust fan valve with spring return
24P172	Quick Adjust Knob. For quick change of fan size
24N636	Low profile atomizing air control
26A160	ES On/Off Valve Restrictor for high atomizing air applications
24N632	ES On-Off and Fixed Fluid Valve

Test Equipment

Part Number	Description
241079	Megohmmeter. 500 V output, 0.01-2000 megohms. Use for ground continuity and gun resistance tests.
722886 722860	Paint Resistance Meter. Use for fluid resistivity test. Paint Probe. Use for fluid resistivity test. These two parts must be used together.
245277	Test Fixture. High Voltage Probe and kV meter. Use to test the electrostatic voltage of the gun and the condition of the alternator and power supply when being serviced.
24R038	Test fixture adaptor to change from Pro Xs to Pro Xp
25E919	HVLP Verification Kit. For use with HVLP air cap part #25E671

Air Hose Accessories

Part Number	Description
24N642	Ball Swivel for gun air inlet. 1/4 npsm (left-hand thread).
112534	Air quick disconnect coupling
185493	Air Hose Adaptor. 1/4 npt (m) x 1/4 - 18 npsm (left-hand thread)
24A225	15 m (50 ft); air hose 10 mm (0.375 in.) ID; 3/8 npsm(f) x 1/4 npsm(f) left-hand thread
24A226	23 m (75 ft); air hose 10 mm (0.375 in.) ID; 3/8 npsm(f) x 1/4 npsm(f) left-hand thread
24N993	High conductivity hose. 7.6 m length to replace 60 kV HC fluid tube kit.

Approvals for Pro Xp* Guns

Approved for use in Class I, Division I locations spraying Group D Materials.

Approved for use in Group II, Category 2 locations spraying Group IIA materials.

*Patent pending

ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

GRACO LOCATIONS

MAILING ADDRESS
P.O. Box 1441
Minneapolis, MN 55440-1441
Tel: 612-623-6000
Fax: 612-623-6777

AMERICAS

MINNESOTA
Worldwide Headquarters
Graco Inc.
88-11th Avenue N.E.
Minneapolis, MN 55413

EUROPE

BELGIUM
European Headquarters
Graco BVBA
Industrieterrein-Oude Bunders
Slakweidestraat 31
3630 Maasmechelen,
Belgium
Tel: 32 89 770 700
Fax: 32 89 770 777

ASIA PACIFIC

AUSTRALIA
Graco Australia Pty Ltd.
Suite 17, 2 Enterprise Drive
Bundoora, Victoria 3083
Australia
Tel: 61 3 9468 8500
Fax: 61 3 9468 8599

CHINA
Graco Hong Kong Ltd.
Shanghai Representative Office
Building 7
1029 Zhongshan Road South
Huangpu District
Shanghai 200011
The People's Republic of China
Tel: 86 21 649 50088
Fax: 86 21 649 50077

INDIA
Graco Hong Kong Ltd.
India Liaison Office
Room 432, Augusta Point
Regus Business Centre 53
Golf Course Road
Gurgaon, Haryana
India 122001
Tel: 91 124 435 4208
Fax: 91 124 435 4001

JAPAN
Graco K.K.
1-27-12 Hayabuchi
Tsuzuki-ku
Yokohama City, Japan 2240025
Tel: 81 45 593 7300
Fax: 81 45 593 7301

KOREA
Graco Korea Inc.
38, Samsung 1-ro 1-gil
Hwaseong-si, Gyeonggi-do,
18449
Republic of Korea
Tel: 82 31 8015 0961
Fax: 82 31 613 9801

Graco is certified ISO 9001.

Europe
+32 89 770 700
FAX +32 89 770 777
WWW.GRACO.COM