



First choice when quality counts.™

PRO AA5500™

Automatic Electrostatic Air-Assisted Airless Spray Gun

The PRO AA5500 is an automatic electrostatic air-assisted airless spray gun for use with reciprocators, robotic positioners or fixed mounting. It is adaptable for replacement of virtually any automatic air-assisted or airless spray device.

Self-Contained, Self-Generating Power Source

Graco's patented PRO Power™ technology employs an internal air-driven turbine to supply the electrostatic charge. No external electrical cables are required, simplifying installation. The PRO AA5500 is approved for use in hazardous locations.

Modular Design for Flexibility

To simplify installation and maintenance, the PRO AA5500 gun assembly consists of three components: the gun, the gun manifold, and the gun shroud.

The gun manifold is attached to a universal reciprocator mount and is easily fitted to virtually any automatic finishing system. Air hoses are connected to the manifold so they do not need to be disconnected when removing the gun. By loosening four screws and disconnecting the fluid line, the gun can be separated from the manifold for quick maintenance or replacement.

The outer plastic shroud covers and protects the gun, reducing gun maintenance and shielding working parts. The shroud is easily removed for servicing.

Remote Controls for Maximum Flexibility

Atomizing air is widely adjustable for finer control. Gun actuation requires only a single control signal, which provides proper fluid to air timing. A remote-controlled voltage selection switch lowers the voltage when needed, from 85 kV down to a user-preselected low setting between 45-80 kV (factory preset at 60 kV).

Typical Fluids Handled

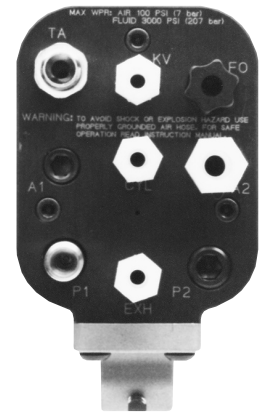
- high solids coatings
- plural component coatings
- corrosion-control coatings
- solvent-based coatings
- polyurethane and epoxies

Typical Applications

- fabricated metal finishing
- agricultural equipment finishing
- heavy construction equipment finishing
- commercial and military aircraft component finishing
- truck and trailer manufacturing



PRO AA5500 – Front



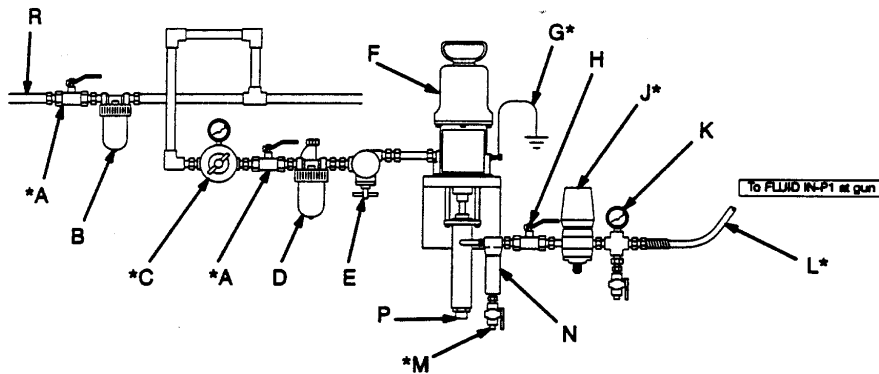
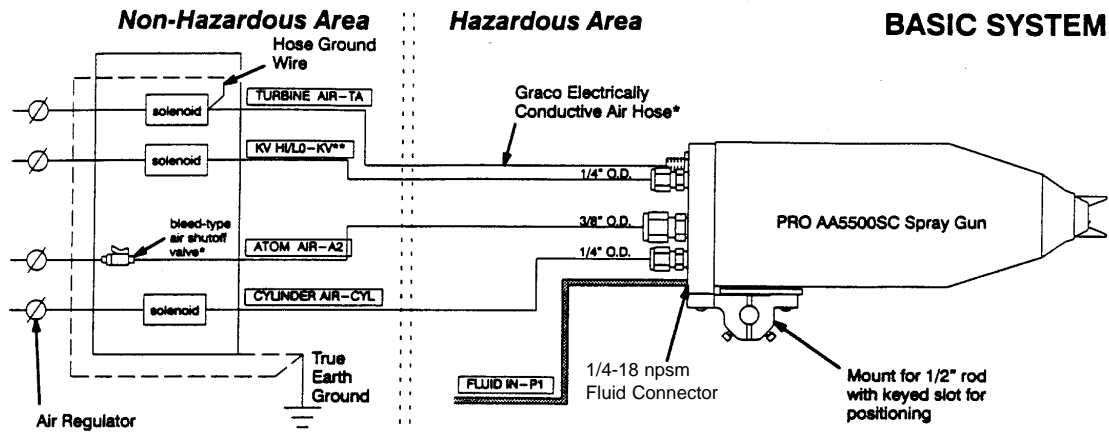
PRO AA5500 – Back

Dual voltage automatic gun for electrostatic air-assisted airless spraying

- **It's unique internal power supply makes the gun simple to install**
- **Modular construction for easy maintenance**
- **Fluid pressure up to 3000 psi (2.07 MPa, 207 bar)**
- **Designed to atomize high solids coatings**
- **Max. fixed voltage 85 kV, selectable cutback voltage range 45-80 kV**
- **Optional remote control voltage monitoring via fiber optics**

COMPONENTS

Typical Installation - Basic System



KEY

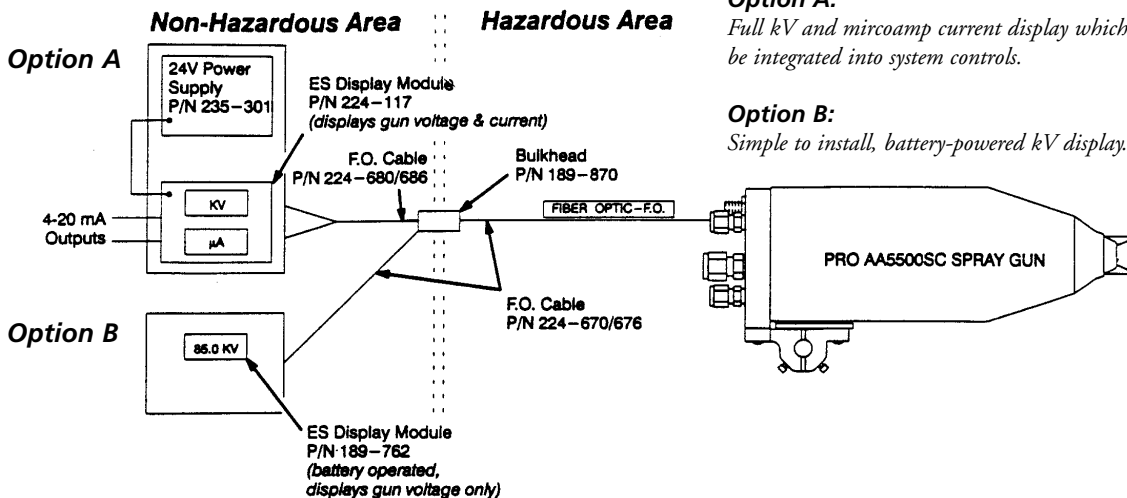
- A* Bleed-type Air Shutoff Valve
- B Air Line Filter
- C* Pump Air Regulator
- D Air Line Lubricator
- E Pump Runaway Valve
- F Pump
- G* Pump Ground Wire
- H Fluid Shutoff Valve

- J* Fluid Pressure Regulator
- K Pressure Gauge
- L* Grounded Fluid Hose with spring guards
- M* Fluid Drain Valve
- N Fluid Filter
- P Pump Fluid Inlet

- R Main Air Line

- * Equipment required for safe operation of system. Must be purchased separately. See Accessories.
- ** KV air line connection is optional. Plug if not used.

System Options Spraying Voltage and Display Module



Option A:

Full kV and microamp current display which can be integrated into system controls.

Option B:

Simple to install, battery-powered kV display.

Specifications

Maximum fluid pressure . . . 3000 psi (20.7 MPa, 207 bar)

Air pressure
operating range . . . 40-100 psi (0.26-0.7 MPa, 2.6-7 bar)

Fluid inlet 1/4–18 npsm(m)

Maximum voltage 85 kV

Maximum current 120 μ A

Air fittings
 atomizing air 3/8 in. (10 mm) OD nylon tube
 cylinder pilot 1/4 in. (6.4 mm) OD nylon tube
 Hi/Lo voltage selector . . . 1/4 in. (6.4 mm) OD nylon tube

Dimensions 3.2 in. W x 5.6 in. H (8.13 cm x 14.22 cm)

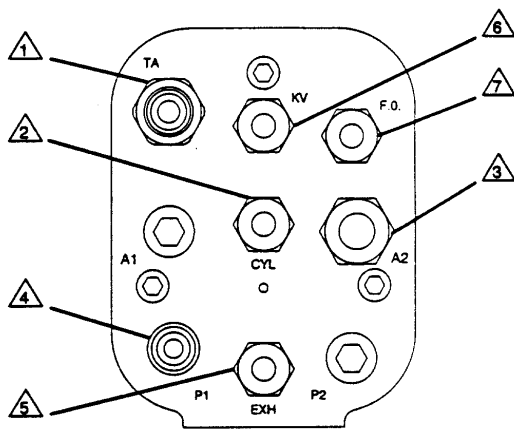
Length 12.25 in. (31.12 cm)

Mounting distance
 (mounting rod to spray tip) 10 in. (25.6 cm)

Weight (including gun, manifold and mounting bracket) 3.57 lbs (1.62 kg)

Instruction manual (gun) 308-387

Gun Controls



1. Turbine Air Inlet
2. Cylinder Air Inlet
3. Atomization Air Inlet
4. Fluid Supply Inlet
5. Shroud Exhaust
6. KV Select
7. Fiber Optic

Ordering Information

236-688 PRO AA5500 Automatic Electrostatic Air-Assisted Airless Spray Gun

Includes gun shroud, mounting bracket, gun manifold and gun. Specify spray tip by order number. See *Tip Selection Chart*.

Air Hose Available (required for use)

Hose Length	Gray Hose	Red Hose	Whip Hose
3 ft. (0.9 m)			236-130
6 ft. (1.8 m)			236-131
15 ft. (4.6 m)	223-069	235-069	
25 ft. (7.6 m)	223-070	235-070	
36 ft. (11 m)	223-071	235-071	
50 ft. (15.2 m)	223-072	235-072	
75 ft. (23 m)	223-073	235-073	
100 ft. (30.5 m)	223-074	235-074	

Grey Hose:

Extra flexibility. Modified semi-conductive polyamide core, urethane cover.

Red Hose:

Conductive SST wire braid for grounding. Polyurethane tube and cover.

Fluid Hose Available

Part No.	I.D.	Length	Thread Size
<i>Maximum working pressure: 3000 psi (20.7 MPa, 207 bar)</i>			
236-134 (whip)	1/8 in. (3.2 mm)	3 ft. (0.9 m)	1/4 npsm(f) x 1/4 npt(m)
236-135 (whip)	1/8 in. (3.2 mm)	6 ft. (1.8 m)	1/4 npsm(f) x 1/4 npt(m)
223-756	1/4 in. (6.4 mm)	15 ft. (4.6 m)	1/4 npsm(f)
223-540	1/4 in. (6.4 mm)	25 ft. (7.6 m)	1/4 npsm(f)
223-541	1/4 in. (6.4 mm)	50 ft. (15.2 m)	1/4 npsm(f)

Maximum working pressure: 3300 psi (22.7 MPa, 227 bar)

214-698	3/16 in. (4.8 mm)	25 ft. (7.6 m)	1/4 npsm(f)
214-697	3/16 in. (4.8 mm)	50 ft. (15.2 m)	1/4 npsm(f)

Accessories

Fiber Optic Cable Assemblies (Refer to diagram)

For connection between gun manifold and display module (224-117) or between bulkhead connector and display module (227-117).

Other lengths available. See *Instruction Manual 308-265*.

Part No.	Length
224-682	25 ft. (7.6 m)
224-684	50 ft. (15 m)
224-686	100 ft. (30.5 m)

For connection between gun and manifold and display module (189-762) or between gun manifold and bulkhead, other lengths available.

224-672	25 ft. (7.6 m)
224-674	50 ft. (15 m)
224-676	100 ft. (30.5 m)

224-117 E/S Display Module

Receives fiber optic transmission from the PRO 5500sc gun and displays the gun's output voltage and current. Mounts in a standard 19 in. (482.6 mm) DIN rack. Refer to *Instruction Manual 308-265*.

PRO 5500 Robot Mounting Brackets

237-762	Mounting to GMF P100
237-763	Mounting to GMF P150
237-764	Mounting to ABB Tralfa

235-301 Power Supply

Used to supply low voltage DC power to 224-117 E/S Display Module. Refer to *Instruction Manual 308-265*.

189-762 Remote Voltage Display

Battery-operated meter displays actual spraying voltage. Remote mount outside hazardous area. Connects to gun via fiber optic cable. Refer to *Instruction Manual 308-265*.

236-917 KV Display Kit

Includes remote voltage display (189-762) and 25 ft. (7.6 m) fiber optic cable.

236-919 KV Display Kit

Same as 236-917 with 50 ft. (15 m) cable.

236-921 KV Display Kit

Same as 236-917 with 100 ft. (30.5 m) cable.

237-159 PRO AA5500 Round Spray Conversion Kit

This kit comes with tip of choice.

Round Pattern Spray Tip Selection Chart

Part No.	Size No.	Flow at 600 psi (4.0 MPa, 40 bar)	Flow at 1200 psi (8.0 MPa, 80 bar)
236-836	4A	2.2 oz/min (64 cc/min)	3.2 oz/min (96 cc/min)
236-837	6A	3.4 oz/min (100 cc/min)	3.2 oz/min (150 cc/min)
236-838	7A	5.4 oz/min (160 cc/min)	7.8 oz/min (230 cc/min)
236-839	5B	5.7 oz/min (170 cc/min)	8.5 oz/min (250 cc/min)
236-840	7B	7.1 oz/min (210 cc/min)	10.1 oz/min (300 cc/min)
236-841	9B	10.8 oz/min (320 cc/min)	14.5 oz/min (430 cc/min)
236-842	11B	11.8 oz/min (350 cc/min)	16.2 oz/min (480 cc/min)

Tip Selection Chart

Orifice Size in. (mm)	Fan Width at 10 in. (260 mm)	Order No.
0.007 (0.178)	2-4 (50-100)	GG3-107
	4-6 (100-150)	GG3-207
	6-8 (150-200)	GG3-307
0.009 (0.229)	4-6 (100-150)	GG3-209
	6-8 (150-200)	GG3-309
	8-10 (200-250)	GG3-409
0.011 (0.279)	4-6 (100-150)	GG3-211
	6-8 (150-200)	GG3-311
	8-10 (200-250)	GG3-411
	10-12 (250-300)	GG3-511
	12-14 (300-350)	GG3-611
0.013 (0.330)	4-6 (100-150)	GG3-213
	6-8 (150-200)	GG3-313
	8-10 (200-250)	GG3-413
	10-12 (250-300)	GG3-513
	12-14 (300-350)	GG3-613
0.015 (0.381)	4-6 (100-150)	GG3-215
	6-8 (150-200)	GG3-315
	8-10 (200-250)	GG3-415
	10-12 (250-300)	GG3-515
	12-14 (300-350)	GG3-615
0.017 (0.432)	4-6 (100-150)	GG3-217
	6-8 (150-200)	GG3-317
	8-10 (200-250)	GG3-417
	10-12 (250-300)	GG3-517
	12-14 (300-350)	GG3-617
0.019 (0.483)	6-8 (150-200)	GG3-319
	8-10 (200-250)	GG3-419
	10-12 (250-300)	GG3-519
	12-14 (300-350)	GG3-619
	14-16 (350-400)	GG3-719
0.021 (0.533)	8-10 (200-250)	GG3-421
	10-12 (250-300)	GG3-521
	12-14 (300-350)	GG3-621
	14-16 (350-400)	GG3-721
	16-18 (400-450)	GG3-821
0.023 (0.584)	8-10 (200-250)	GG3-423
	10-12 (250-300)	GG3-523
	12-14 (300-350)	GG3-623
	14-16 (350-400)	GG3-723
	16-18 (400-450)	GG3-823
0.025 (0.625)	8-10 (200-250)	GG3-425
	10-12 (250-300)	GG3-525
	12-14 (300-350)	GG3-625
	14-16 (350-400)	GG3-725
	16-18 (400-450)	GG3-825