

First choice when quality counts.™

Dual voltage

air spray

applications

automatic gun

for electrostatic

PRO 5500hcTM

Automatic Electrostatic Air Spray Gun

The PRO 5500hc gun was designed to accommodate a special need. When standard electrostatic guns are used with highly conductive solvent-based paints, metallics and some mica-based coatings, they allow excess current flow to ground, resulting in lower tip voltage and decreased

in lower tip voltage and decreased electrostatic effect. This results in lower transfer efficiency. With the PRO 5500hc, a specially designed fluid tube solves this problem. This tube improves the fluid resistance path and retains the electrostatic charge.

The PRO 5500hc is an automatic electrostatic air spray gun for use with reciprocators, robotic positioners or fixed mounting. It is adaptable for replacement of virtually any automatic air

spray device.

The PRO 5500hc allows fast color changes and fast flushing. It is widely used in automotive base coat application.

This gun is for use with Class I, Group D paint spray materials.





PRO 5500hc – Back

Typical Fluids Handled

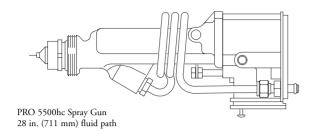
- metallic and mica-base coatings
- conductive primers
- conductive epoxy and polyurethane topcoats

Typical Applications

- automotive assembly
- automotive components
- fabricated metal finishing
- metal furniture
- metal office furniture and cabinets

- Meets the needs of highly conductive and metallic coatings
- Maximum fixed voltage 85 kV, selectable cutback voltage range 45-80 kV
- Its unique internal power supply makes the gun simple to install
- Modular construction for quick and easy servicing

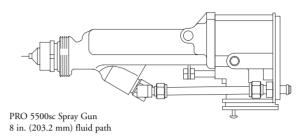
Comparing the PRO 5500hc to a PRO 5500sc



The PRO 5500hc spray gun offers increased electrostatic performance when spraying highly conductivity fluids, metallic, and mica-based paints.

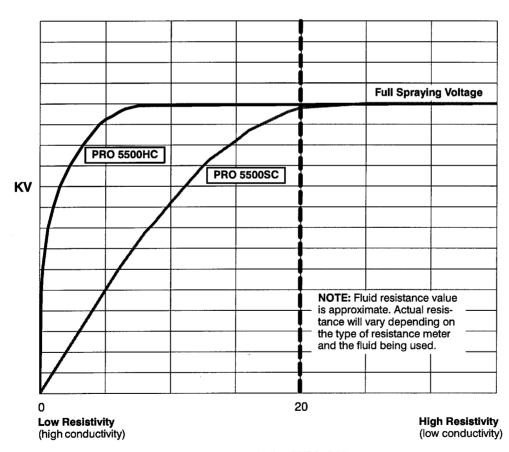
In an electrostatic spray gun, the fluid in the fluid tube becomes a path to ground when the high voltage is turned on. The amount of current drawn through the fluid tube depends on the fluid resistivity and the length of the fluid path to ground.

The PRO 5500sc and PRO 5500hc guns will perform equally well when spraying fluids with high resistivity, as shown in the graph below. Even with the shorter fluid tube



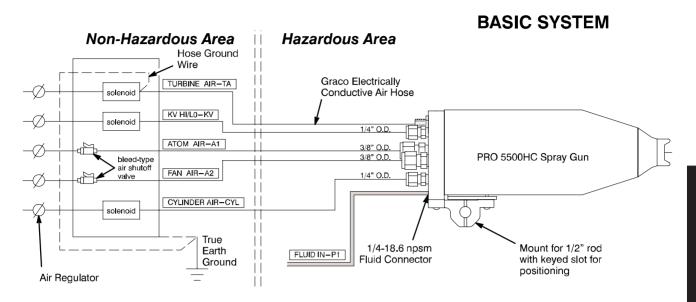
of the PRO 5500sc gun, very little current travels through the fluid, due to its high resistivity, and the spraying voltage is minimally affected. However, when the fluid resistivity decreases to low levels, more current is drawn through the fluid and the spraying voltage of the PRO 5500sc gun is reduced.

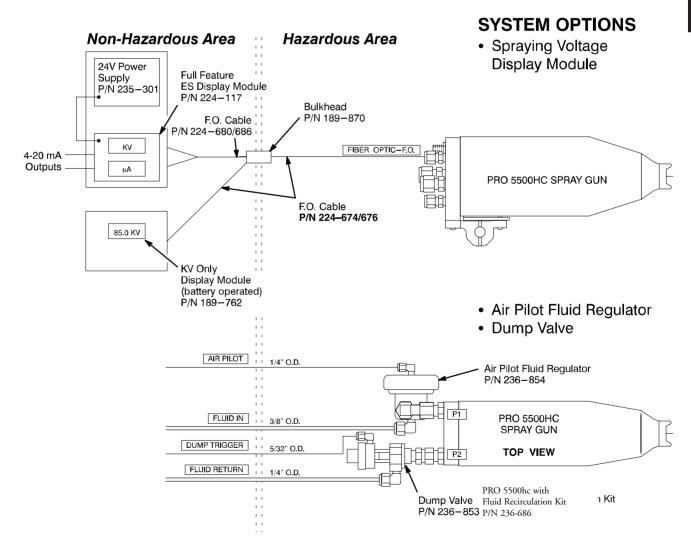
The PRO 5500hc gun can support higher voltages when spraying conductive materials because the longer fluid tube increases the total resistance of the fluid column and reduces the current drawn through the fluid.



Fluid Resistivity MEG CM

Typical Installation





Technical Specifications

$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Maximum voltage
Maximum current
Air inlets (fittings are included with gun)
Atomizing air
Fan air
Cylinder pilot
Hi-Lo voltage selector 1/4 in. O.D. nylon tube
Length
Mounting distance
Mounting rod to nozzle tip9-1/3 in. (23.6 cm)
Fits mounting rod
Weight (includes gun, manifold and mounting bracket) 3.57 lbs (1.62 kg)
Instruction manuals
Gun
E/S display module

Ordering Information

236-685	PRO 5500hc Automatic Electrostatic
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Air Spray Gun

236-686 PRO 5500hc Automatic Electrostatic
Air Spray Gun with Recirculating System

Includes spray gun, shroud, manifold, mounting bracket and recirculation kit.

Air Hose Available (required for use)

Length	Grey	Red
6 ft. (1.8 m)	223-068	235-068
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 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.

185-493 Air Hose Adaptor Nipple

This adaptor allows for the connection of multiple air hose as needed for the special grounded PRO air holes. 1/4 npsm (L.H.) x 1/4 npsm.

235-300 Gun Mounting Bracket

Allows gun to hang with barrel in a downward orientation to prevent material from getting into the air passages.

236-129 Air Inlet Swivel

Replaces air inlet fitting for swivel action.

Accessories

237-300 Conversion Kit

For converting a PRO 5500sc spray gun to a high conductivity PRO 5500hc spray gun.

237-302 Conversion Kit

For converting a PRO 5500sc spray gun to a high conductivity PRO 5500hc gun with fluid recirculation.

Fiber Optic Cable Assembly

For connection between gun manifold and display module or between bulkhead connector and display module. 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)

224-117 E/S Display Module

Receives fiber optic transmission from the PRO 5500sc gun and displays the output voltage and current. Mounts in a standard 19 in. DIN rack. See Instruction Manual 308-265.

235-301 Power Supply

Used to supply low voltage D.C. 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 Same as 236-917 with 50 ft. (15 m) fiber optic cable.

236-921 Same as 236-917 with 100 ft. (30.5 m) fiber optic cable.

236-853 Dump Valve

Mounts directly to manifold for faster flushing and color changes.

236-854 Fluid Regulator

Air-piloted fluid regulator mounts at manifold for precise fluid control.

 Round Pattern Kits
 Includes fluid tip, diffuser and air cap

 222-329
 Diameter: 4-6 in. (102-152 mm)

 222-330
 Diameter: 8-10 in. (203-254 mm)

Air Caps

193-033 Round End. Medium to high production. 15-17 in. (381-432 mm) at 12 in. (305 mm). Fine atomization.

177-036 Tapered End. Medium to high production. 15-17 in. (381-432 mm) at 12 in. (305 mm).

177-039 Tapered End. Medium to high production. 14-16 in. (356-407 mm) at 12 in. (305 mm).

180-739 Round End. Good atomization. High production. 15-17 in. (381-432 mm) at 12 in. (305 mm).

189-888 Gun Cover

239-945 Box of 10 Gun Covers