

Model A7A Automatic Airless Spray Guns

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Single or dual-chamber automatic spray guns for versatile, reliable high-production airless painting applications.

Nordson A7A automatic airless spray guns are designed to deliver maximum reliability in high-production airless painting, sealant and adhesive applications. Nordson airless systems, featuring A7A guns, produce fine atomization and a soft, controllable spray to deliver excellent finish quality with minimal overspray. Air-actuated A7A guns provide fast response time (30 to 40 milliseconds) and high-speed cycling capability (up to 2500 cycles per minute), and are ideal for coating situations requiring precise material application.

Meet Varying Requirements

Nordson A7A guns are available in single and dual chamber, and dual-chamber angled models, and can be used in either noncirculating or circulating heated airless applications.

Standard A7A guns are constructed of aluminum and steel, while stainless steel models can be used with water-borne, highly corrosive materials or in special food and drug applications. A wide range of standard and special models are also available to meet unique application requirements, including extended-nozzle versions for coating recessed areas.

Dual-Chamber Guns

Dual-chamber A7A guns incorporate the industry-proven features of the original A7A gun and share many common parts. Dual A7A guns are ideal for instant color change in robotic painting applications and on drum painting lines. Two colors can be circulated through the dual fluid body at the same time, and the appropriate color selected by actuating the



A7A guns are used on high-speed drum painting lines to deliver fast, precise coating coverage.

respective air piston of the gun. Heated coating material is circulated close to the nozzle, providing uniform temperature and consistent painting quality.

Dual-chamber A7A guns are also ideal for applications requiring fast cleaning/color change, since one side can hold coating material, while the other side holds solvent or water for flushing the gun quickly.

Benefits of Heated Coatings

The addition of heat to a circulating system using A7A guns can improve overall operating efficiencies. Heating the coating improves atomization as well as finish quality by providing a more uniform, higher solids film application. The addition of Nordson NH-4 fluid heaters can help reduce and control material viscosity of high-solids coatings without adding solvents. This can result in better painting efficiency through reduced material use and costs.

Easy-to-use, Operate

The A7A gun's needle and seat design ensures fast, clean on/off operation to eliminate dripping and spitting for reduced rejects, booth cleanup and material costs. Few moving parts ensure ease of installation and operation. Compact, rugged construction provides long life and easy field maintenance.

Nordson Cross-Cut® Nozzles

Nordson A7A guns can use patented Nordson Cross-Cut nozzles which provide improved atomization with a wide range of coating materials including high solids and other difficult-to-spray coatings. Cross-Cut nozzles produce greater atomizing energy at a given fluid pressure, compared to conventional spray nozzles. Excellent atomization is achieved at reduced fluid pressure, resulting in a softer, low-velocity spray which helps minimize dripping and material waste for a cleaner, more efficient operation.

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Features and Benefits

- **Fast cycling with positive cutoff** — provides precise operation with minimal dripping and spitting.
- **Rugged, production-proven construction** — minimizes downtime and maintenance costs.
- **Several models available** — dual-chamber guns can be used on drum painting lines to provide fast cleaning/color change with no downtime. Stainless steel models apply waterbornes and highly corrosive materials, or can be used in special food or drug applications.
- **Compact, rugged construction** — ensures long life and low maintenance costs.
- **Extended-nozzle versions available** — for coating recessed areas.
- **Use Nordson Cross-Cut and dome nozzles** — for effective atomization of hard-to-atomize coatings for minimal paint waste.
- **Mounts to 1/2" round bar** — for fast, easy installation.
- **Retrofit kits available** — convert two single guns into a dual-chamber model for improved operating flexibility.
- **Optional air cylinder detent kit** — provides precise control of needle movement to regulate fluid stream.
- **Optional high pressure kit** — increases operating pressure range to 3000 psi.
- **Optional Nordson NH-4 heater** — reduces and controls material viscosity for improved operating performance and efficiency.



Nordson A7A guns are available in single (left) and dual chamber (center) versions, as well as dual-chamber angled (right) models.

Specifications

	Single Chamber	Dual Chamber	Dual Chamber Angled
Dimensions			
Height	3.5 in. (89 mm)	4.375 in. (111 mm)	4.625 in. (117 mm)
Length	3.5 in. (89 mm)	5.25 in. (133.35 mm)	6.0 in. (152 mm)
Width	3.5 in. (89 mm)	3.50 in. (89 mm)	3.5 in. (89 mm)
Weight	15 oz (.45 kg)	3.15 lbs (1.43 kg)	2.65 lbs (1.20 kg)
Air Requirements	40-120 psi (2.75-8.27 bar)	40-120 psi (2.75-8.27 bar)	40-120 psi (2.75-8.27 bar)
Maximum Fluid Pressure			
Standard	1700 psi (117 bar)	1700 psi (117 bar)	1700 psi (117 bar)
With high pressure option kit	3000 psi (206 bar)	3000 psi (206 bar)	3000 psi (206 bar)

Nordson reserves the right to make design changes to products and components to improve their function. These changes may occur between catalog printings.

For more information, talk with your Nordson representative or contact your regional headquarters office.

United States
Amherst, Ohio
Telephone: (800) 955-9563
Facsimile: (440) 985-1536
www.nordson.com

Canada
Markham, Ontario
Telephone: (905) 475-6730
Telephone: (800) 463-3200
Facsimile: (905) 475-8821
www.nordson.ca

Europe
Erkrath, Germany
Telephone: (49) 211-9205-0
Facsimile: (49) 211-254658

Japan
Tokyo, Japan
Telephone: (81) 3-5762-2700
Telephone: (81) 3-5762-2701

Asia/Australia/Latin America
Amherst, Ohio
Telephone: (440) 988-9400
24-hour message service:
(440) 985-9421
Facsimile: (440) 985-3710
24-hour facsimile:
(440) 985-1096



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