

Model A7AA Air-Assisted Airless Gun



Compact, high-cycle, air-assisted airless gun for spraying highly viscous and difficult-to-atomize coatings in high-production automatic spraying applications.

The Nordson Model A7AA air-assisted airless gun is a compact, high-speed, automatic spray gun designed to spray viscous and hard-to-atomize coatings. The gun is available in non-circulating or circulating versions when installed in heated systems, or in production situations when continuous circulation of fluids is desirable.

Combining Nordson's patented Cross-Cut airless nozzle technology with a small volume of atomizing air, the A7AA gun achieves superior atomization without using high airless pressure. The A7AA is compatible with a wide range of difficult-to-spray coatings and adhesives, including: paint; protective coating; sealer and undercoating; cold glue; heated wax; solvent and waterbase adhesive; acrylic emulsions; sprayable hot melt adhesive; and food and drug applications.

The A7AA gun provides high-speed triggering capability without spitting and dripping. Fast on/off response time allows for high-speed cycling in "stitching" operations and exceptional needle and seat life in abrasive applications. In very high-speed stitching applications, the air-assist feature can be adjusted for a continuous air bleed to minimize the spitting problems associated with spray guns when subjected to high-cycle applications.



Stainless steel model of the A7AA gun

Cross-Cut Airless Nozzles

The Model A7AA gun uses patented Nordson Cross-Cut® nozzles which provide improved atomization with a wide range of materials including highly viscous and difficult-to-atomize coatings. At a given fluid pressure, Cross-Cut nozzles produce greater atomizing energy compared to conventional airless spray nozzles. The result is a softer, low-velocity spray which helps minimize dripping, material waste and equipment wear for a cleaner, more efficient operation.



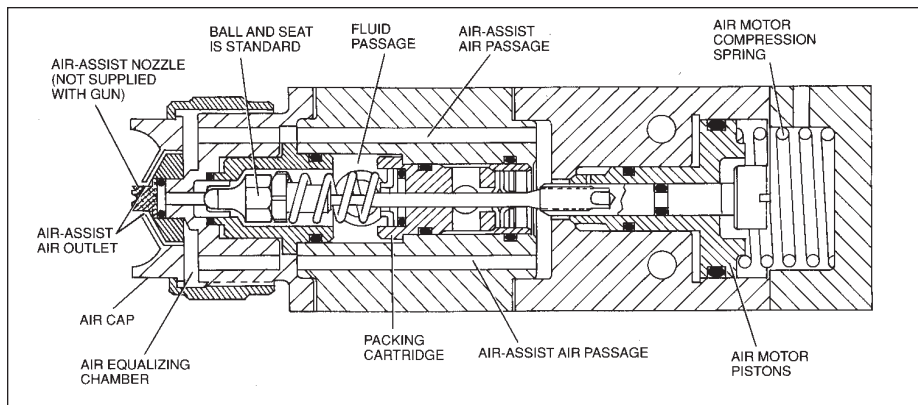
Nordson Cross-Cut nozzles

Benefits of Heated Coatings

Adding patented Nordson NH-4 fluid heaters to a circulating system featuring A7AA guns helps reduce and control the viscosity of coating materials without adding solvents. This can boost painting efficiency by reducing solvent costs and over-spray. Heating the coating material further improves atomization and also improves finish quality by providing a more uniform, higher-solids film with single-coat applications.

Heated A7AA gun systems can be used to reduce drying time, increase dry film thickness, improve atomization for a better finish, and minimize or eliminate blushing with lacquer and vinyl coating materials.

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Plan view of the A7AA gun

Features and Benefits

- **Compact, simple design** — ensures easy installation, reliable operation and low maintenance costs.
- **Carbide ball and seat design** — provides long life and easy replacement for reduced maintenance and downtime costs.
- **Flexible application** — for use with cold or heated systems.
- **Rugged, production-proven construction** — ensures maximum on-line production capability, and low downtime and maintenance costs.
- **Air-assist design** — can atomize higher-solid fluids better than standard airless guns for greater operating flexibility.
- **Increased painting control** — reduces runs and sags to ensure better coating quality on small or irregular parts.
- **Fast cycling capability with positive cutoff** — provides precise operation with minimal dripping or spitting.
- **Available with stainless-steel wetted parts** — to accommodate production requirements of waterborne and corrosive applications.
- **Low pressure operation** — minimizes overspray, reducing painting costs and equipment wear, and lowering booth maintenance and disposal costs.
- **Increased operating flexibility** — A7AA gun can be easily retrofitted to existing automatic airless applications.
- **Standard with Nordson Cross-Cut nozzles** — provide improved atomization and precise paint distribution. Eliminate tails when spraying high-solids and difficult-to-atomize coatings. Ensure better paint quality and minimize re-work costs.

Specifications

Dimensions

Height	(76.2 mm)	3.0 in.
Length	(147.3 mm)	5.8 in.
Width	(101.6 mm)	4.0 in.

Weight

(1.4 kg) 3.09 lbs.

Maximum Fluid Pressure

(105.5 kg/cm²) 1500 psi

Where Air-Assist is Best Applied

- Spraying catalyzed materials where heated systems cannot be used.
- Waterborne coatings where air entrapment occurs with airless atomization.
- For simple, non-circulating, cold glue and adhesive applications.
- Where airless atomizing pressures cause overspray and poor coating quality.
- Where airless atomization is marginal to remove "tails."
- For low-flow airless applications to minimize nozzle plugging.
- For a better degree of flow control at individual guns compared to airless. Typical fluid pressure range is 200 to 1,000 PSI.
- To apply sealers, undercoatings and waxes.

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

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