

Ratio-Pak[®] HSS Spray System

An innovative adhesive dispensing system utilizing our Ratio-Pak[®] dual cartridges for meter mix and spraying of two component, high solid adhesives, coatings and liners.

Features:

- Utilizes the Ratio-Pak[®] dual cartridge system . See [Ratio-Pak Adhesive Dispensing](#) for available capacities and ratios.
- Uses a patented spray manifold/static mixer assembly. Static mixer options are available.
- Dispensing is accomplished with an economical HSS modified air gun that provides controlled dispensing.
- Added control of airflow volume and pressure allows for complete material mixing and atomization.
- Low cost, easy to use, lightweight and portable.
- Manifold deflector shields available to adjust spray pattern.
- Flow restrictors available to control seepage of low viscosity materials.
- Polyureas, polyaspartic, urea epoxy, urea urethane
- Polyesters, vinyl esters, and epoxies



U.S. Patent 6,601,782



Spray Nozzle Options

Current mixer options include a 1/4" ID x 24, and 3/8" ID x 24 elements. Other options will include 3/8" and 5/8" ID mixers for medium to high viscosity compounds.

Additional mixer options could be developed as required.



Ratio-Pak® HSS Air Gun

The HSS Air Gun is based on a reliable design with proven dependability and service. The HSS air gun is equipped with unique features for separate material flow and air atomizing spray control.

The HSS air gun has a quick connect/disconnect hose assembly for easy attachment of air lines to the HSS Spray manifold. The atomizer air line is also equipped with an air flow regulator and pressure gauge to properly control the air flow and spray pattern.





HSS air guns will be available for the following cartridge configurations:

Model Number	Description
HSS 1500	4 inch air cylinder – for 750 x 750 ml cartridges
HSS 1200	4 inch air cylinder – for 600 x 600 ml cartridges
HSS 630	4 inch air cylinder – for 600 x 300 ml cartridges
HSS 300-A1	4 inch air cylinder – for 300 x 300 ml cartridges
HSS 300-A2	4 inch air cylinder – for 300 x 150 ml cartridges
HSS 300-A3	4 inch air cylinder – for 300 x 75 ml cartridges
HSS 300-B1	2-½ inch air cylinder – for 300 x 300 ml cartridges
HSS 300-B2	2-½ inch air cylinder – for 300 x 150 ml cartridges
HSS 300-B3	2-½ inch air cylinder – for 300 x 75 ml cartridges
HSS AG 231	2-½ inch air cylinder – for 300 x 100 ml cartridges
CK-1	Regulator Conversion Disk

Accessories

ORIFICE FLOW RESTRICTOR VALVES and GASKET SEAL TAPE:

Orifice flow restrictors are simple cartridge nozzle mounted valves which prevent low viscosity material drip and drool, and also reduce material cross over contamination of A & B compounds. The restrictor is positioned directly at the outlet end of the cartridge, and is held in place by the HSS Spray Nozzle Assembly. Restrictor options include:

Model Number	Description
OR-1	3/16 x 3/16 - for high viscosity fluids
OR-2	1/16 x 1/16 - for low to medium viscosity fluids
OR-3	3/16 x 1/16 - for low and high or non1:1 ratio fluids
OR-4	Double flap design for lowest viscosity fluids and More positive shut off.
Gasket Tape	Placed between cartridges to prevent back-flow.

Market Applications

The Ratio-Pak[®] HSS System can be used for a variety of smaller coating projects; maintenance and repair, protective coatings and liners, touchups, testing, and in-field demonstrations and applications. In the future, larger capacity cartridges will allow the HSS system to be considered for even larger volume applications and projects, including:

- Truck and bed liners; motor home and trailer roof and floor coatings. Van and SUV conversion interior costing and waterproofing.
- Abrasion resistant liners and coatings.
- Industrial equipment liners and coatings.
- Aircraft touchup on top-coatings.
- Built-up roofing coating repair and sealing of HVAC openings.
- Manhole and underground vault sealing and waterproofing
- Railroad and truck trailer liners and coatings.
- Pool and deck coatings, liner repairs and pipe joint repair.

