

High Solid Spray (HSS) System

High solid spray system for coating applications



The fully assembled HSS High Solid Spray System includes dispense gun, cartridge, mixer with spray nozzle, and a regulator kit.

The HSS Spray System is an innovative dispensing system using EFD Ratio-Pak®, Film-Pak®, and Side x Side cartridges for meter mix and spraying of two-component materials. Its variable, multi-ratio design allows it to easily dispense a wide range of low- to high-viscosity fluids.

The system can be used for a variety of industrial spraying and dispensing solutions, including high solid coatings and adhesives. It's ideal for truck bedliners, pipe coating, manhole restoration, marine repair, roofing projects, and other maintenance and touch-up applications.

The complete HSS system includes a lightweight dispense gun equipped with handles and straps for extra portability and ease of use. A regulator on the gun's atomizing air line provides easy adjustment to accurately control air flow. Static mixer spray nozzles are available in a range of outlets and spray patterns.

Features

- Patented spray manifold/static mixer assembly
- Control of air flow, volume, and pressure
- Many mixer options available
- Reliable, lightweight, and portable design

Benefits

- Easy to adjust spray pattern for all jobs
- Complete material mixing and atomization
- Easy to switch out cartridges
- Flexibility to dispense different pigments: For example, mate color of side A Ratio-Pak cartridge with different colors of side B
- Quick clean-up



The HSS Spray System is the perfect size for field applications.



The HSS Spray System easily sprays low-viscosity paints.



more info

HSS SPRAY GUNS – PNEUMATIC TOP LOAD

Sold individually. Order the gun, retaining nut, mixer with spray nozzle, cartridges, and regulator kit for the complete system.

LOW PRESSURE GUN - 2.5" CYLINDER

Part #	Cartridge Size	1:1	2:1	2.5:1	3:1	3.3:1	4:1	4:3
7661435	100 x 75	–	–	–	–	–	–	✓



MULTI-RATIO LOW PRESSURE GUN - 2.5" CYLINDER

Part #	Cartridge Size	1:1	1.25:1	1.2:1	1.3:1	1.5:1	1.6:1	2:1	2.5:1	2.7:1	3:1	3:2	3.3:1	4:1
7661025	150 x 150	✓	–	–	–	–	–	–	–	–	–	–	–	–
	200 x 200	✓	–	–	–	–	–	–	–	–	–	–	–	–
	250 x 250	✓	–	–	–	–	–	–	–	–	–	–	–	–
	300 x 300	✓	–	–	–	–	–	–	–	–	–	–	–	–
	250 x 200	–	✓	–	–	–	–	–	–	–	–	–	–	–
	300 x 250	–	–	✓	–	–	–	–	–	–	–	–	–	–
	200 x 150*	–	–	–	✓	–	–	–	–	–	–	–	–	–
	150 x 100	–	–	–	–	✓	–	–	–	–	–	–	–	–
	300 x 200	–	–	–	–	✓	–	–	–	–	–	–	–	–
	250 x 150	–	–	–	–	–	✓	–	–	–	–	–	–	–
	150 x 75	–	–	–	–	–	–	✓	–	–	–	–	–	–
	200 x 100	–	–	–	–	–	–	✓	–	–	–	–	–	–
	300 x 150	–	–	–	–	–	–	✓	–	–	–	–	–	–
	250 x 100	–	–	–	–	–	–	–	✓	–	–	–	–	–
	200 x 75	–	–	–	–	–	–	–	–	✓	–	–	–	–
	300 x 100	–	–	–	–	–	–	–	–	–	✓	–	–	–
	250 x 75	–	–	–	–	–	–	–	–	–	–	✓	–	–
300 x 75	–	–	–	–	–	–	–	–	–	–	–	–	✓	

*Gun P/N 7661025 is compatible with collapsible Film-Pak cartridges when configured for use with 300 x 300 cartridges. Order reusable translucent white nylon Film-Pak retainer system (P/N 7363429) for the complete system.

Pneumatic guns require HSS Air Regulator Conversion Kit. See page 5 for part numbers.

Continued on next page

HSS SPRAY GUNS – PNEUMATIC TOP LOAD

Sold individually. Order the gun, retaining nut, mixer with spray nozzle, cartridges, and regulator kit for the complete system.

HIGH PRESSURE GUN - 4.0" CYLINDER

Part #	Cartridge Size	1:1	1.25:1	2:1	2.5:1	3:1	4:1	8:1	10:1
7661613*	300 x 300	✓	–	–	–	–	–	–	–
7661223	600 x 600	✓	–	–	–	–	–	–	–
7661027	750 x 750	✓	–	–	–	–	–	–	–
7661336	750 x 600	–	✓	–	–	–	–	–	–
7661224	600 x 300	–	–	✓	–	–	–	–	–
7661524	600 x 250	–	–	–	✓	–	–	–	–
7661219	300 x 100	–	–	–	–	✓	–	–	–
7661428	600 x 75	–	–	–	–	–	–	✓	–

*Gun P/N 7661613 works only with collapsible Film-Pak cartridges. The gun features specialized built-in Film-Pak retainers.

Pneumatic guns require HSS Air Regulator Conversion Kit. See page 5 for part numbers.

Continued on next page



HSS SPRAY GUNS – PNEUMATIC TOP LOAD

Sold individually. Order the gun, retaining nut, mixer with spray nozzle, cartridges, and regulator kit for the complete system.

MULTI-RATIO HIGH PRESSURE GUN - 4.0" CYLINDER													
Part #	Cartridge Size	1:1	1.25:1	1.2:1	1.3:1	1.5:1	1.6:1	2:1	2.5:1	2.7:1	3:1	3.3:1	4:1
7661026*	150 x 150	✓	–	–	–	–	–	–	–	–	–	–	–
	200 x 200	✓	–	–	–	–	–	–	–	–	–	–	–
	250 x 250	✓	–	–	–	–	–	–	–	–	–	–	–
	300 x 300	✓	–	–	–	–	–	–	–	–	–	–	–
	250 x 200	–	✓	–	–	–	–	–	–	–	–	–	–
	300 x 250	–	–	✓	–	–	–	–	–	–	–	–	–
	200 x 150	–	–	–	✓	–	–	–	–	–	–	–	–
	150 x 100	–	–	–	–	✓	–	–	–	–	–	–	–
	300 x 200	–	–	–	–	–	✓	–	–	–	–	–	–
	250 x 150	–	–	–	–	–	–	✓	–	–	–	–	–
	150 x 75	–	–	–	–	–	–	–	✓	–	–	–	–
	200 x 100	–	–	–	–	–	–	–	✓	–	–	–	–
	300 x 150	–	–	–	–	–	–	–	✓	–	–	–	–
	250 x 100	–	–	–	–	–	–	–	–	✓	–	–	–
	200 x 75	–	–	–	–	–	–	–	–	–	✓	–	–
	300 x 100	–	–	–	–	–	–	–	–	–	–	✓	–
	250 x 75	–	–	–	–	–	–	–	–	–	–	–	✓
300 x 75	–	–	–	–	–	–	–	–	–	–	–	–	✓

*Gun P/N 7661026 features a narrow cradle.

HSS AIR REGULATOR KITS

All pneumatic guns require a regulator kit for spraying.

Part #	Description
7660025	Air Regulator Kit - 2 feet long
7660026	Air Regulator Kit - 3 feet long

HSS SPRAY NOZZLES WITH MIXERS

Nozzles have standard orifice of 0.085" (2.16 mm) except those noted as large orifice which is 0.130" (3.3 mm).

STRAIGHT

Part #	Description	Orifice Size	# of Elements	Element Diameter ID (in / mm)	Retaining Nut
7660861	Straight Conical	0.085"	24	0.25 / 6.35	7/8 - 14
7660941	Straight Conical	0.085"	24	0.37 / 9.52	7/8 - 14
7660855	Straight Conical	0.13"	24	0.37 / 9.52	7/8 - 14
7660857	Straight Conical	0.13"	24	0.37 / 9.52	7/8 - 9
7661058	Straight Conical	0.13"	24	0.37 / 9.52	7/8 - 14



RIGHT ANGLE

Part #	Description	Orifice Size	# of Elements	Element Diameter ID (in / mm)	Retaining Nut
7660833	Right Angle	0.085"	24	0.37 / 9.52	7/8 - 9
7660838	Right Angle	0.085"	24	0.37 / 9.52	7/8 - 14
7660840	Right Angle	0.085"	24	0.37 / 9.52	7/8 - 14



HIGH FLOW

Part #	Description	Orifice Size	# of Elements	Element Diameter ID (in / mm)	Retaining Nut
7660947	High flow, 7/16"	0.330"	20	0.63 / 16	7/8 - 14
7661202	High flow, 5/8"	0.455"	24	0.5 / 12.7	7/8 - 9

HSS SPRAY SYSTEM REPLACEMENT PARTS

REPLACEMENT PLUNGERS

Sold individually.

Part #	Description	2.5" Gun	4.0" Gun
7661029	75 mL replacement plunger	✓	✓
7661031	75 mL replacement plunger	–	✓
7661339	75 mL replacement plunger, for 1.1 ratio only	✓	–
7661371	100 mL replacement plunger	✓	✓
7661032	150 mL replacement plunger	–	✓
7661328	150 mL replacement plunger	✓	✓
7661486	250 mL replacement plunger	✓	✓
7661030	300 mL replacement plunger	✓	✓
7661033	300 mL replacement plunger	–	✓
7661034	600 mL replacement plunger	–	✓

RETAINING NUTS

Retaining nuts hold mixer in place on cartridge; spare nuts can be ordered as needed.

Part #	Description
7660730	7/8 - 9 Retaining Nut (polyethylene)

STABILIZER PLATES

Stabilizing plates ensure proper cartridge alignment in gun cradle; spare plates can be ordered as needed.

Part #	Description
7661498	Stabilizer Plate for 2.5" Cylinder Spray Gun

HSS Spray System Cartridges

The HSS Spray System can use EFD Film-Pak, Side x Side, and Ratio-Pak cartridges.

Film-Pak Cartridges



Nordson EFD Film-Pak cartridges feature innovative, collapsible multi-layer film that compresses into the unique Film-Pak lid as two-component fluids are dispensed. These sustainable, eco-friendly dual cartridges reduce packaging waste volume by more than 85%. Available in 600mL volumes with a 1:1 ratio.

Side x Side Cartridges



Nordson EFD Side x Side cartridges feature a rugged, one-piece design that resists bulging to ensure on-ratio dispensing. Select from volumes that range from 50mL to 1500mL, with ratios from 1:1 up to 10:1.

Ratio-Pak Cartridge Systems



Nordson EFD Ratio-Pak systems use individual cartridges that snap together with other Ratio-Pak cartridges of any size. This unique, patented design gives users the flexibility to combine multiple ratios from 1:1 up to 25:1, with volumes from 60mL to 1500mL.

Sample Cartridge Ratios



1:1 ratio



2:1 ratio



4:1 ratio



6:1 ratio



8:1 ratio



10:1 ratio



Flow Restrictors

EFD's low-cost, plastic flow restrictors eliminate problems caused by low-viscosity fluids by slowing the thinner component's flow.

RATIO-PAK FLOW RESTRICTORS

Part #	Type	Orifice Size (mm / in)	Material	Color
7660764	Flat	1.6 x 1.6 mm (0.063 x 0.063")	LDPE	Black
7660768	Flat	Slit x 4.8 mm (Slit x 0.188")	LDPE	Black
7660766	Flat	Dual Slit	LDPE	Black
7661231	Tabbed	2.4 x 2.4 mm (0.094 x 0.094")	LDPE	White
7661325	Tabbed	2.4 x 4.8 mm (0.094 x 0.188")	LDPE	Red
7661232	Tabbed	Dual Slit	LDPE	Blue



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