



WALLCOLMONOY

For **fast, smooth, uniform** application of brazing filler metal powders and other powdered materials

## NicroSpray™ System

The **NicroSpray™ System** is specifically developed for applying **Nicrobraz®** brazing filler metal powders or any free flowing powdered material which requires a liquid binder for adherence to a workpiece – evenly, quickly and smoothly.

The NicroSpray™ System is unique in that dry and wet feed separately and combine only when they leave the nozzle and flow rates are individually controlled.

**Dry and Wet Feed Separately And Only Mix When Leave Nozzle** The dry powder particles and the liquid binder are not mixed before spraying. Each is fed separately to the gun and are not combined until they leave the nozzle.

**Individually Controlled Flow Rates** The system uses compressed air carrying the powder from hopper to gun and pressurizes the binder tank. The flow rates of both powder and binder are individually controlled.



Model N-5 has two powder hoppers. This allows you to operate continuously (switching from one hopper to the other); use both hoppers for higher rates; switch between two different powders; or blend two materials.

## Advantages & Benefits

**Uniformity.** Coating action with this system is uniform, regardless of the quantity of material in the hopper. The amount of powder introduced is under the control of the operator. The amount of binder can be adjusted as desired.

**Constant, adjustable alloy/binder ratio.** There's no need to agitate or recirculate the liquid binder.

**No Waste.** Valuable materials are conserved. No partially used mixtures left over. One cubic inch of powder is enough to operate the unit. Only a few ounces of solvent are required for a complete cleanup. Overspray can be recovered and recycled.

**Fast changeover.** Cleaning of the system takes only a few minutes (and is unnecessary if the type of binder is not changed). Powder changeover is also quickly done. Remaining powder is emptied through the bottom of the carburetor, and new powder is poured in the top of the hopper. No measuring of liquids and powders is required.

**Intermittent Use.** The system can stand idle for extended periods with no additional material or set-up time required when spraying is resumed. Spraying results are constant, regardless of intermittent use.

**Portability.** The whole unit is easily moved, and it can be operated wherever there is a source of compressed air. The only location requirement is that there be adequate ventilation.

## Equipment & Features

The NicroSpray™ System is comprised of a control panel, spray gun, binder tank, and all necessary hoses.

**The Control Panel** holds two powder hoppers with carburetors, a regulator and gauge for controlling powder feed, and two powder on / off valves.

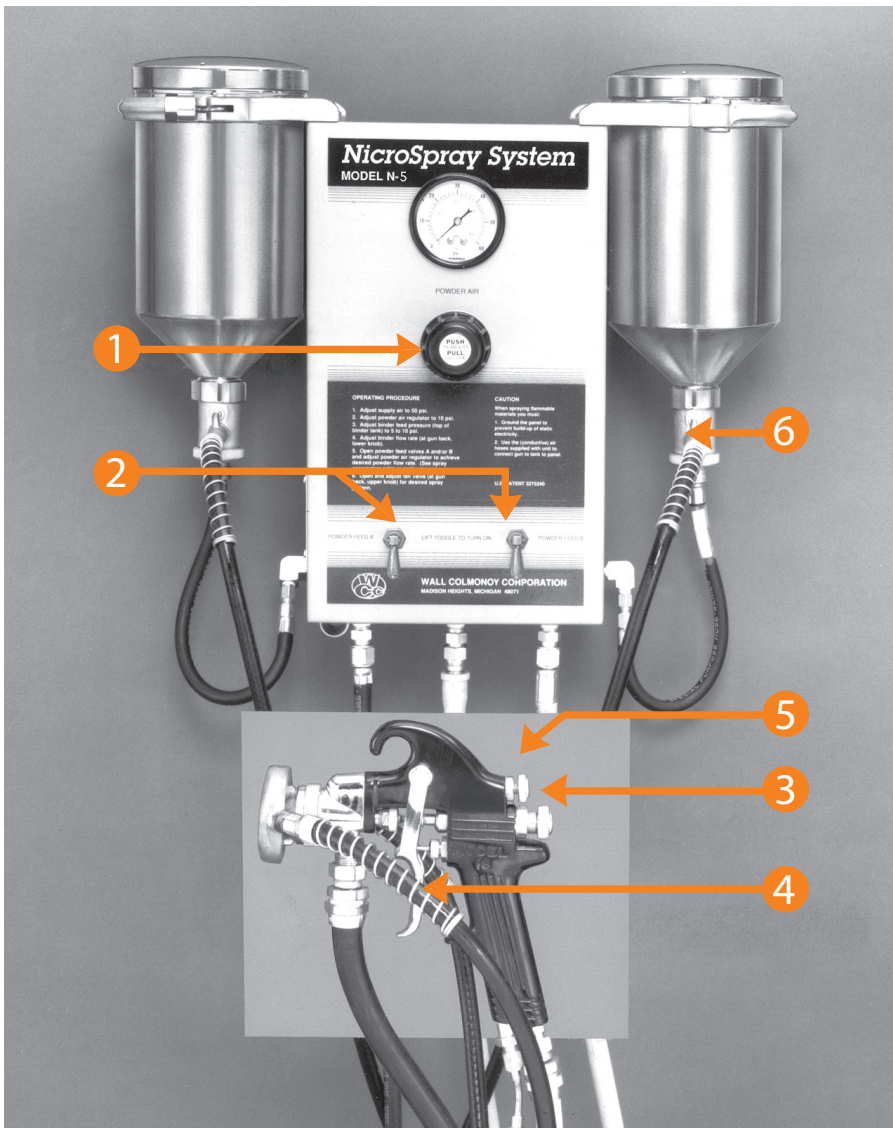
### The HVLP Spray Gun

#### How it works

The key element of the NicroSpray™ System is the powder carburetor (6). It feeds powder to the gun at a uniform and controllable rate. Air carries the powder to two outlets at the nozzle of the spray gun. There it enters the zone where the liquid binder is being atomized.

The pistol trigger starts and stops the flow of both materials. The powder flow is controlled by a specially developed valve in the panel, and is automatically actuated by the spray-air flow. The only connections to the gun are the air hose, powder hose and binder hose.

Included with the gun are hoses to interconnect gun and panel, and to connect the panel to a compressed air source.



The **Binder Tanks** have either a 2 liters (two-quart) or a 10.6 liters (2.8-gallon) capacity. Both are pressurized, with integral regulators and gauges. The two-quart size can hang under the panel.

Accessories include a kit to create a narrow spray pattern, and extension nozzles to get to hard-to-reach places.

#### Left Image:

The regulator **(1)** controls the powder-air pressure and the rate of powder flow. The on/off valves **(2)** start and stop powder from entering the air flow **(6)** Carburetor.

The rate of binder flow is controlled by a valve **(3)** on the back of the gun. The two-position gun trigger **(4)** first starts the air flow (with, or without powder for air drying work), and then the binder flow. **(5)** Fan control valve adjusts width of spray pattern.

## SPECIFICATIONS

Panel Size (w x h x d):	361 x 216 x 165 mm (14-1/4 x 8-1/2 x 6-1/2 in.)
Hose Length:	3 meters (10 feet)
Air Requirements:	Clean, dry plant air, 11.8 Nm <sup>3</sup> /h (7.5 scfm) at 413-483 kPa (60-70 psi) Connection is 6.35 mm NPT
Binder Tanks:	2 liters (Two-quart) and 10.6 liters (2.8-gallon) sizes
Powder Capacities:	2.5 liters (152 cu.in.)   9.1 kg (20 lb) Nicrobraz® powder in each hopper
Powder Spray Rate:	One hopper, up to 13.6 kg/h (30 lb/hr.), two hoppers, up to 22.7 kg/h (50 lb/hr.) Nicrobraz® powder

#### **WORLD HEADQUARTERS**

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