



# **AUTOMATIC AIRMIX® GUN**

## ***ATOMIZATION PRINCIPLE, OPERATING AND HANDLING***

### **TRANSLATION FROM THE ORIGINAL MANUAL**

***IMPORTANT : Before assembly and start-up, please read and clearly understand all the documents relating to this equipment (professional use only).***

THE PICTURES AND DRAWINGS ARE NON CONTRACTUAL. WE RESERVE THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE.

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## 1. AIRMIX® ATOMIZATION PRINCIPLE

The spray air cap of the AIRMIX® gun is composed of 2 functional elements : a spray tip and an air cap. Atomization takes place in two phases :

1. The fluid is pre-atomized by going through the spray tip under pressure.
2. Atomization is improved by means of very low pressure atomizing air jets.

The end results is a fine uniform atomization that guarantees an excellent finish without excessive overspray. This results in very important air and fluid savings and cleaner working conditions - in comparison with a conventional air spray gun.

## 2. OPERATING



### Safety instructions :

- Never try to stop the spray fan with any part of the body (hands, fingers...) or with rags. Never point the spray gun at anyone or at any part of the body.
- The operator will need medical attention if the high pressure material spray is in contact with the the body (eyes, fingers...).
- **Always lock the gun trigger with the safety device when not operating the gun.**
- **Always depressurize air and hoses** before carrying out any servicing on the gun.



**In order to protect the operator, protective clothing (gloves, respirator mask, glasses, hearing protective earplug, clothes...) are required.  
Use the equipment in a properly ventilated area.**

- 1 - Prime the pump.
- 2 - Unscrew the air adjuster on the base of the gun.
- 3 - Select a spray tip (refer to AIRMIX® spray tip chart).
- 4 - Make sure white seal (or micro-filter) is in place in the spray tip.
- 5 - Carefully press the spray tip into the air cap back being certain the locating pins are aligned with mating recesses of the tip.
- 6 - Insert the air cap with its tip into the retaining ring. Screw retaining ring and air cap firmly onto the spray gun positioning the air cap to obtain the desired pattern orientation.
- 7 - Adjust the air pressure for the desired flow rate.
- 8 - If tails or heavy deposits of sprayed material occur at the ends of the pattern, increase the atomizing air pressure until the pattern is even.
- 9 - If using an adjustable air cap, pattern width can be optimized with the air adjusting knob.

Nota : if more material or less material are required, select another spray tip (refer to AIRMIX® spray tip chart).

### 3. GUN HANDLING

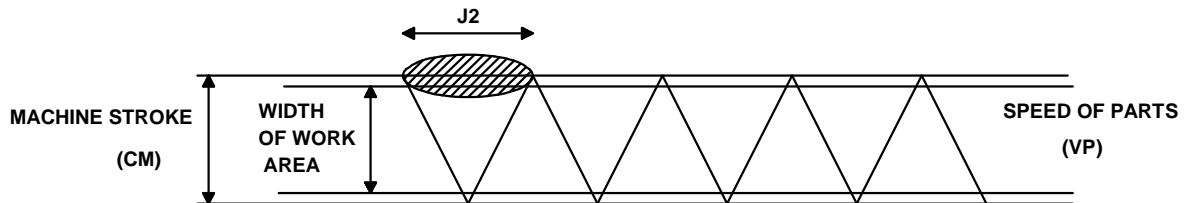
When mounting the air cap on the gun, hold it vertically in order to correctly adjust the air cap before screwing the air cap ring.

Keep the gun perpendicular to the surface to be painted.

Do not forget that crossed sweeps cannot correct irregularities.

Spraying from a stationary gun will not give even coverage.

Make sure that overlapping from the passes is even (gun moving vertically, part moving horizontally).



This width J2 for two regular coats of paint corresponds exactly to the following formula :

$$J2 \text{ (m)} = VP \text{ (m/s)} \times 2 \frac{CM \text{ (m)}}{VM \text{ (m/s)}}$$

Where :

**VP** = speed of travel of the parts to be painted.

**CM** = total stroke of the machine (and therefore of the spray guns).

**VM** = speed of the machine (and therefore of the spray guns).

**2** = 2 regular coats of paint (or 4 if you want to double the number of coats).