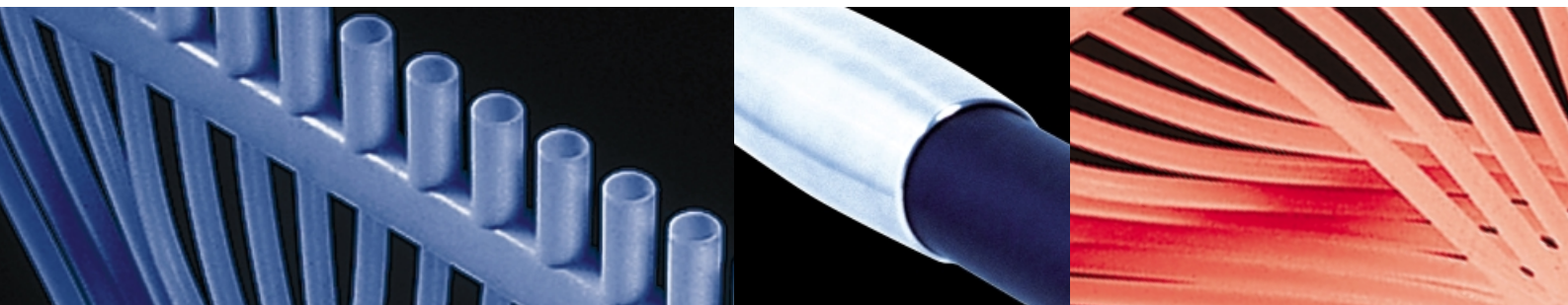


TRV 117

[Automatic powder sprayer with tribo-electrostatic charge



USE

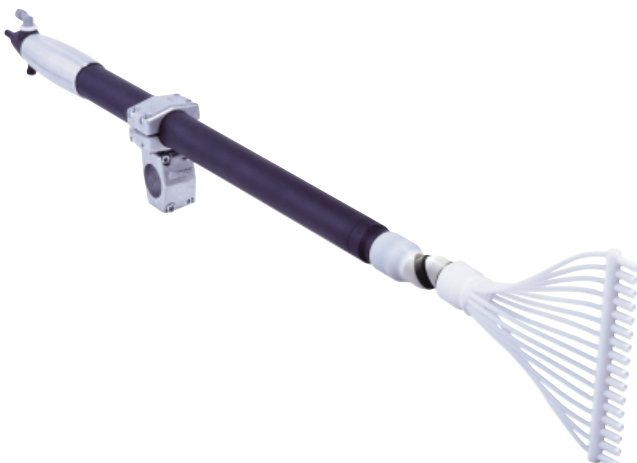
The tribo method of application is ideal for coating the more complex shaped objects, which are difficult to spray with the corona principle of electrostatics. Powder sprayed by the TRV 117 penetrates recesses due to the lack of electrostatic ionisation and overcomes the Faraday cage effect.

SAMES Technologies has in its range the TRV 117 which has been designed with the latest design features to create a reliable and economic spray gun. The TRV 117 has been designed with three pneumatic controls which regulate the following :

- injection air adjusts the powder flow (11 kg/h max. recommended).
- dilution air enables a constant flow of powder at low flow rates
- additional air control increases the friction charge without increasing the powder flow.

To optimise the configuration of a powder installation, the TRV 117 has been designed to work with various shaped nozzles so powder can be directed onto the surface of the product to be coated.

The TRV 117 has been designed to be mounted on a reciprocator to enable powder to be sprayed with a homogeneous coverage on the work piece. SAMES recommends compatible powders to achieve the best results with Tribo.



ADVANTAGES

Transfer efficiency superior to existing Tribo sprayers

Thanks to the best powder charging ability available on the market, the sprayer allows a great uniformity of thickness, penetration into recesses and a perfect finishing of the coated part. Extensive tests confirm TRV117 outperforms the competition due to design features and materials of construction.

New rack nozzle

This nozzle allows a straight application as well as a 360° rotation on its axis. Its design offers a very good resistance as the tips are screwed onto the hoses. A tightening nut perfectly holds the nozzle at any orientation whatever the reciprocating speed.

Easier application thanks to the swivel nozzle

The TRV 117 sprayer can be equipped with a swivel nozzle which allows a 90° angle positioning. Therefore, the same rack nozzle can be used for all angle spraying.

Easy maintenance: time saving

TRV 117 permits all handling from outside of the booth : the maintenance time for cleaning is very short as dismantling of the rear body is made without any tool (3 minutes maximum).

Reduced costs

Excellent resistance of the parts submitted to friction by the powder – long life time.

Function safety

System detects default when current cable is not connected.

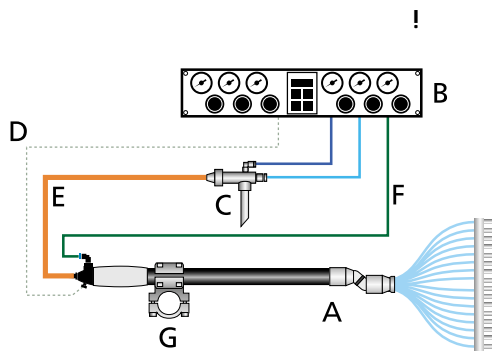


The electrostatic charge is created by friction of the powder and air as it passes through the internal parts of the gun barrel. This process is called "Tribo electrostatic".

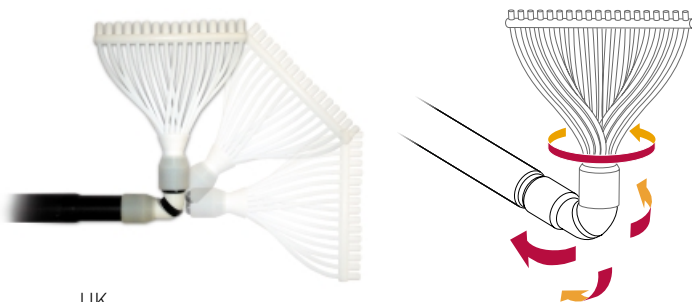
Equipment package consists of:

- One or two TRV 117 (A) guns equipped with adjustable nozzle.
- One TRJ 102 control module (B) to drive one or two TRV 117 guns.
- 1 or 2 powder pumps CS 126 (C).
- Charge current measuring cable (D).
- Powder transport hose \varnothing 11/15 mm (E).
- Air input hose \varnothing 4/6 mm or \varnothing 6/8 mm (F).
- Universal mounting bracket (G) \varnothing 50/50 mm.

- Total length (including nozzle): 1210 mm
- Weight (including nozzle): 3.3 Kg
- Weight (inc. nozzle & swivel fitting): 3.5 Kg
- Air consumption: 20 Nm³/h
- Powder flow: 11 Kg/h max. recommended



Nozzle equipped with the swivel fitting for more spray adjustment



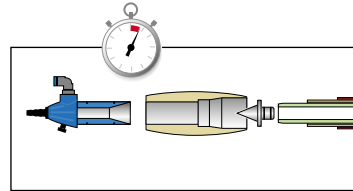
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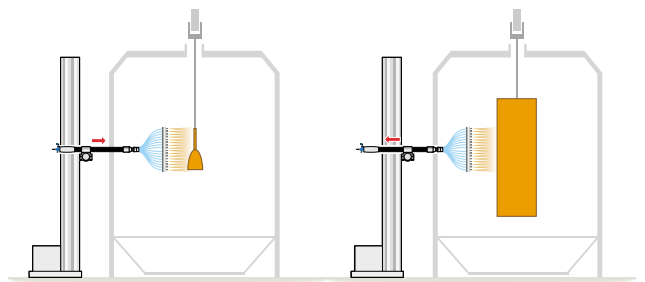
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Disassembly and assembly
without tools: 3 min



Adjustable distance from the conveyor axis while keeping access
and adjustment from outside the booth

Functions of TRJ 102 control module :
To adjust the injection, dilution and additional air
pressures. To measure the charge current.
To control the safety and remote control.

- 19 inch rack (2U)
- Height: 240 mm depth
- Voltage: 110 or 220 V
- Frequency: 50/60 Hz
- Power: 35 VA
- Display: from 1 to 99 units
- Maximum pressure : 10 bar



The TRJ 102 control module allows for one or two TRV 117 to be operated.

