# Operating Instruction

# Manual Coating Equipment



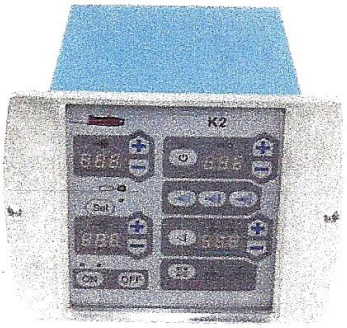
## →FUNCTIONS

The powder gun through the powder hose . The powder is electrostatically charged at the nozzle of the gun. In addition, an electrostatic field is created between the gun nozzle and the grounded object. The charged powder spray remains adhered to the surface of the object.
The powder is fluidized by air forced through a porous plastic plate from below. The powder acquires, thereby, fluid-like characteristics.
The conveying air, supplementary air, and rinsing air are set on the control Unit
The process of the coating is like this: The powder is fluidized in the powder hopper. The injectors transport the powder through the hoses to the guns. The guns spray a powder/air mixture onto the workpieces

## →TECHNICAL DATA

| | |
|---|---|
| Electrical data | |
| Power range | 220V/110V |
| Frequency | 50HZ /60HZ |
| Temperature range in use | -10 °C+50 °C |
| Powder Gun | |
| Gun weight: | 500g |
| Rated output voltage | 24VDC |
| Maximum output current | 180Ua(max) |
| Maximum output voltage | 0-100KV ( adjustable) |
| Maximum powder injection | 600g/min |
| Polarity | negative (-) |
| Pneumatic data | |
| Maximum input-air pressure | 10kg/cm |
| Optimum input-air pressure | 6kg/cm |
| Minimum input-air pressure | 4kg/cm |
| Maximum water vapor content or compressed air | 1.4g/N m3 |
| Maximum oil vapor content of compressed air | 0.1ppm |
| Maximum compressed-air consumption | 13.2 m3/h |

## Control unit

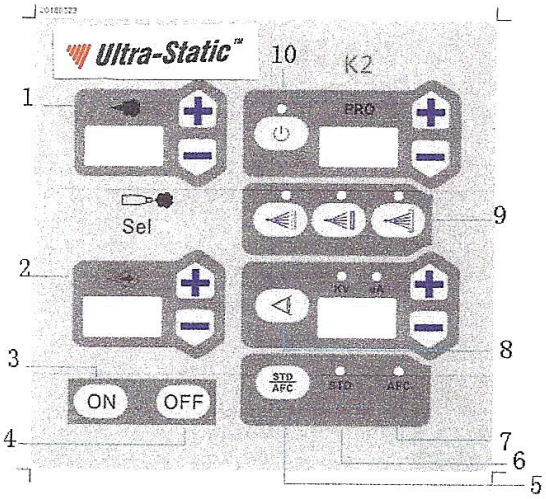



Ultra-Static™ offers 3 pre-set standard application programs for flat parts, profiles and re-coating. It is very easy to operate for a beginners.

2，Allows you to create and store your own application programs, optimized for your parts and powder. Each part can be coated always with its ideal settings for experience operator.

3，A clear and easy to use interface makes it easy for every user to take advantage of these powerful technologies.

## Display Elements




| Designation | Function |
|---|---|
| 1 | Feeder powder |
| 2 | Atomization/dosage |
| 3 | Power on |
| 4 | Power off |
| 5 | Adjust button for current&voltage |
| 6 | Display light |

| | |
|---|---|
| **7** | Adjust light |
| **8** | Current&Voltage change |
| **9** | Three buttons for corner/flat/recoat |
| **10** | Program set |
| **11** | Program change |

1. Connect the all wires;

2. Turn on the power;

3. Select program;

4. Adjust the voltage/current button, and adjust feeder&dosage.

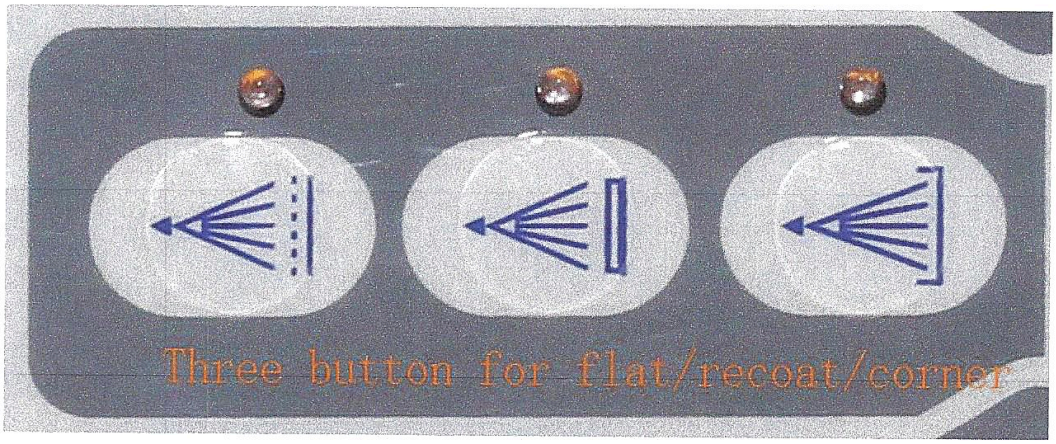
Remark: If want adjust "clean" or "fluidiztion" you should press "sel" button.

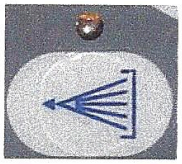



The button  when it is manual model, it means fluidization; if it is auto model this button means gun botton

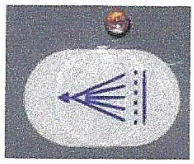
Automatic/manual mode switching: long press sel light flashes, the machine automatically switches on and switches successfully.

STD/AFC can only switch current and voltage

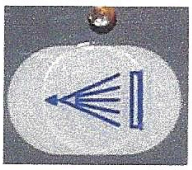




The complex parts program is designed for the coating of three dimensional parts with complex shapes such as profiles.



The flat parts program is ideal for the coating of panels and flat parts.



The recoat program parts is optimized for the re-coating of parts which have already been coated.

Program:

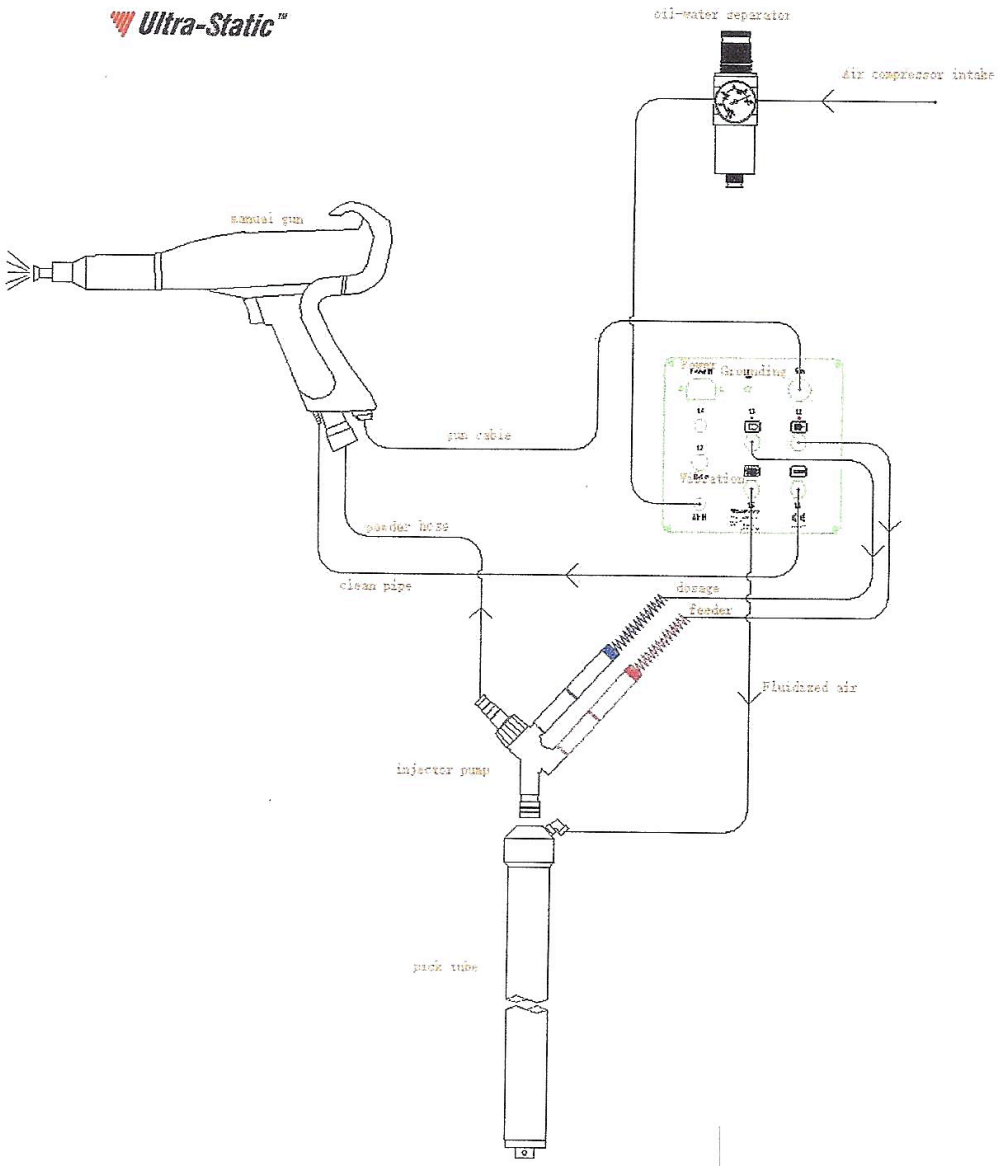



## Structure




## CONNECTING GUIDE

Drawing of Connection of Ultra-Static™




**NOTE:**

**1, The compressed air must be free of oil and water!**

**2, Air in must be use small filter unit**

**3, Powder injector must be with Check valve in the hose connector (must be use G42 or K1 powder injector), in case of the digital valve will be blocked.**

**4, Make sure ground all equipment before turn on the controller.**

**5, First time, if use 110V powder, after connecting the powder, wait 10 seconds to press**

**turn on, if use 220V powder, wait 5 seconds.**

## Spare parts list

### *Ultra-Static*™ manual powder spray gun

