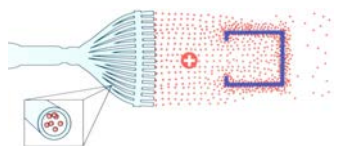
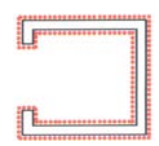
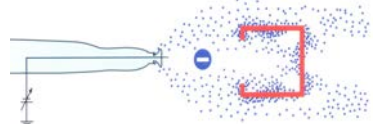
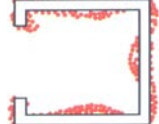




Tribo charging theory

Tribo charging spray is through high speed powder passing charging tube, by frictional contact between powder and material of gun body. The equipment composed by hopper, powder pump, controller and tribo gun. This equipment does not need a power supply and an electrostatic generator to generate high voltage or force the powder to be charged because the powder is self-frictionally electrified, so there is no electrode, and there is no strong electrostatic field between the spray gun and the workpiece during the coating. The independent small electrostatic field strength is very weak, which can only be called a weak electric field, and each paint particle is positively charged.

Comparison in Typical C-shaped steel structure

Theoretical comparison		Performance	Explanation
Tribo gun Each single powder weak field			High transfer efficiency, total coverage, possible without touch up, small thickness distributed tolerance, evenness, good surface appearance, powder saving 20%~40%.
Corona gun Electrode high voltage			More over spray, large recycled powder and waste powder, poor coverage, combine with manual touch-up gun, orange peel, uneven film distribution, powder loss.

Item	Subject	Main advantage	Item	Subject	Main advantage
1	Farady cage effect	Powder easy to penetrate into deep corner without "Farady cage problem" and "Fatty edges"	6	Multi-layer coating	No back-ionisation, as in heavy corrosion requirement, could do multi-layer spray without pin-hole, crater.
2	Automation feasibility	Superior penetration of powder into cavities, corners, and narrow sections, achieve No-Man auto powder coating	7	Workshope space	Weak electrostatic field, the art of powder speed control, give flat panel could be coated by piling in the conveyor direction, tremendous many time of production volume increased at same shop space.
3	Uniformly distributed	No "Farady cage effect" and back ionisation, 400µm high film can be reached in one coat, with certain powder material as lower as 30µm also possible.	8	Various application	Auto gun combine with each different sparayhead for multi-purpose coating job.
4	Orange peel	Weak HV, smooth powder cloud, large & uniform multifinger spray pattern, gives a superior finish without orange peel.	9	Powder Flow rate	Tribo charging gun output is less than corona charging gun. Because transfer efficiency high give same productivity, but relaxed recovery system, energy saving and maintenance less.
5	Electrostatic field	Each single charged powder particle create a weak field, through air force to point out each powder particle to stick on specified surface. Same thickness on inside and outside of cavities and corners, save powder 20%~40%.	10	Transfer efficiency	The transfer efficiency of tribo spray can exceed 80%. Tribo spraying is the most economical choice of powder coating for some coating cases that require high quality without recycling paint.

No touch up powder coating plant



Baifu Automatic Tribo Frictional charging powder spray equipment

Specification of Tribo gun	
Model	T-1a
Gun weight	1000 g
Standard nozzle	260mm, 16 claw
Compressed air	5~7 Kg/cm ²
Transfer efficiency	60~90 %
Powder output	250 g
Powder hose	10Øx5m*

*Other lengths are quoted separately

Advantage of T-1a:

- Best electrification effect, large powder output
- Less consumable parts
- Uniform atomization
- Variety of nozzles can be selected
- Interchangeable with old type spray guns

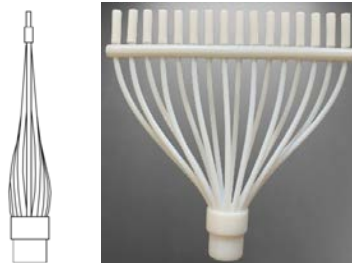
Specification of controller	
Model	BPS320
Weight	3000 g
Power source	220V, 50/60Hz
Charging display	Digital display
Compressed air	5~7 Kg/cm ²
Main cabinet	Optional

Advantage of BPS320:

- Simple operation
- Compact in rack design, easy installation
- Charging current with digital display
- Comfortable 3 gauges design
- High reliable



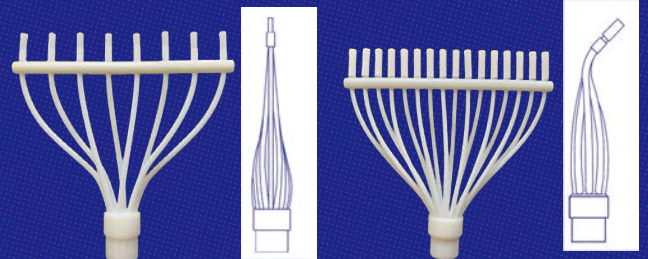
F-1-0-300-16
Standard nozzle



BPS 320 Controller

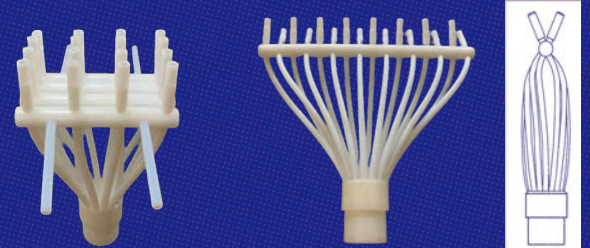


Optional nozzle:



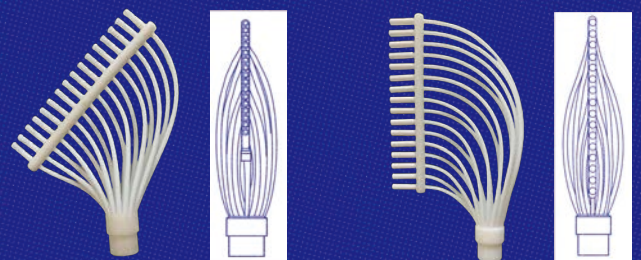
F-1-0-300-8

F-1-45-300-16



F-4-0-120-16

C-1-30-300-16



G-1-45-230-16

G-1-90-235-16

Applications:

- Architectural: Wire net, C-shaped bar, Aluminum extrusion, Rebar
- Illuminating instrument; Reflectors, indirect reflecting cover
- Metal house appliance: Steel shelves, drawer, OA furniture, Panel
- Auto components: Rain brush, Absorber spring, Aluminum Wheel
- Electric fan, electric heater, house appliance, etc



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