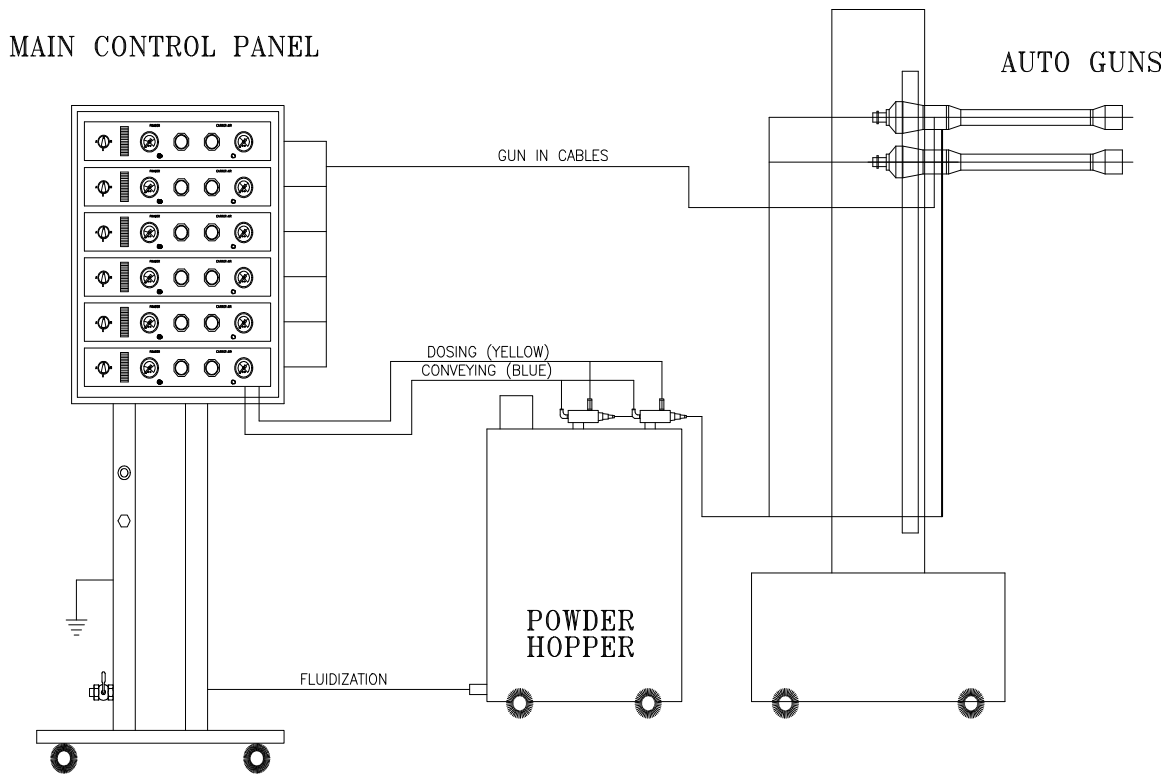


AUTOMATIC TRIBO POWDER SPRAY SYSTEM



34/H, Laxmi Industrial Estate, New Link Road, Andheri (W), Bombay - 400053 India

Phone: ++91 22 66924151-52-53

Fax: ++91 22 6692 4154

Email: mitsuba@vsnl.com

Web Page: <http://www.powdergun.com>

PRIMARY DATA

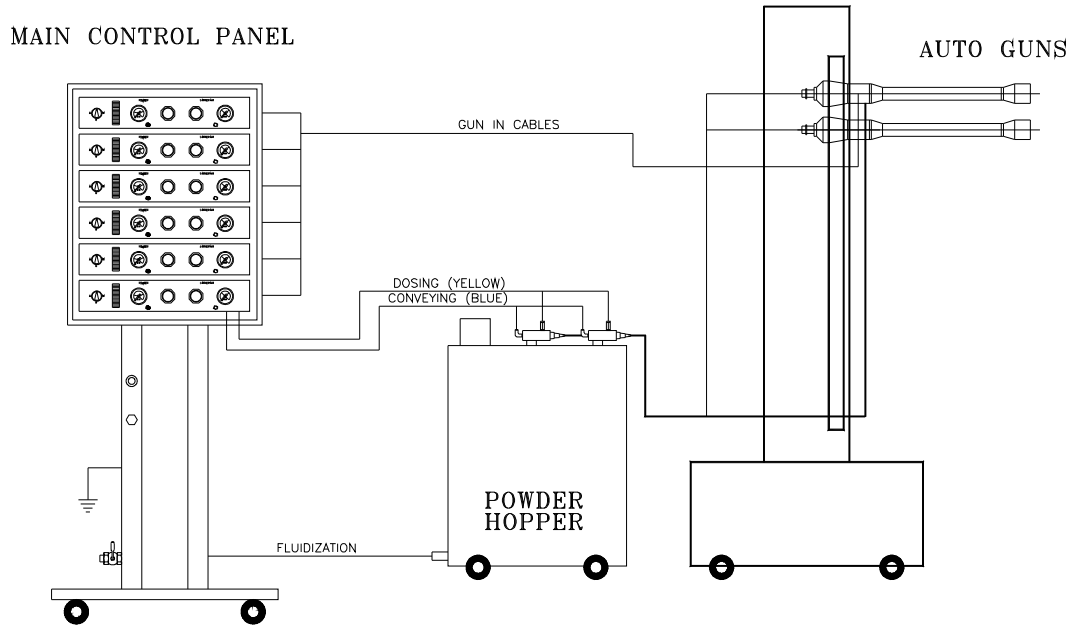
The *MITSUBA* Automatic Tribo Powder Coating System with the Automatic Tribo Powder Spray Guns is specially designed to meet the demands of production line applications in both manufacturing, and custom electrostatic coating applications.

The Flexible, Modular structure of the Automatic Powder Coating System is readily adaptable to any changes in your installation.

The Automatic Powder Coating System grows with your needs and can be easily expanded to incorporate more gun systems as and when required. The various standard Master Control Panels can be cascade interlocked with each other.

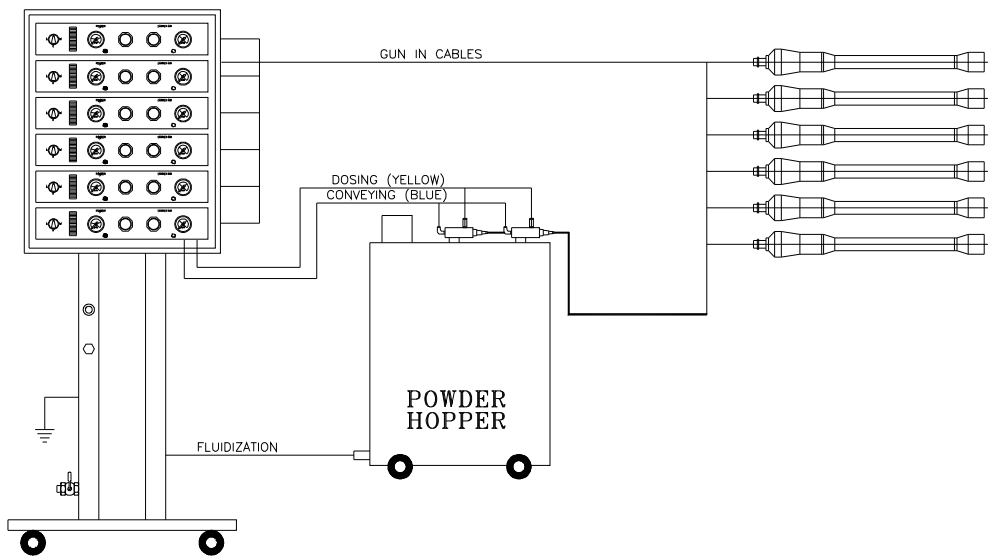
The components shown in the detailed scope of supply vary as per the number of gun systems offered.

AUTOMATIC PLANT WITH RECIPROCATOR



AUTOMATIC PLANT WITHOUT RECIPROCATOR

MAIN CONTROL PANEL AUTO GUNS

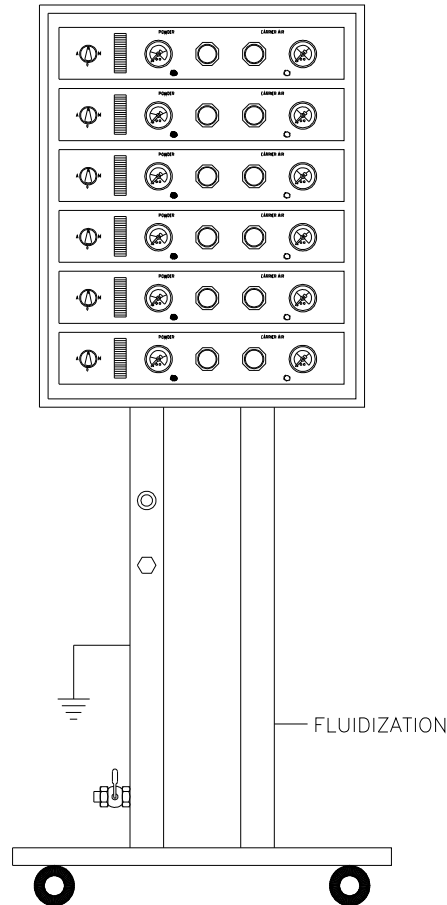


SCOPE OF SUPPLY

A typical Automatic Powder Coating System Plant is built with a modular concept and comprises of:

<u>ITEM</u>	<u>Page #</u>	
Master Control Panel (MCP) (Rack Cabinet) [standard upto 8 guns]	05	
<ul style="list-style-type: none">• Individual Gun Control Panels (GCP)• Automatic Tribo Guns• High Performance Powder Pumps	07 10 13	Qty.of Gun systems as specified
<ul style="list-style-type: none">• Centralized Powder Hopper [Kg. sizes as specified]	13	
<ul style="list-style-type: none">• Necessary Interconnecting Cables & Accessories		

MASTER CONTROL PANEL



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MASTER CONTROL PANEL

This consists of a standard modular enclosure system capable of holding upto 8 Gun Control Panels. The open structure allows easy access to all functions and connections at the rear and front of the system.

The mechanical structure, the components for the front panels & the mounting conditions confirm strictly to known standards. These features permit reliable & long lasting protection in harsh & adverse environments

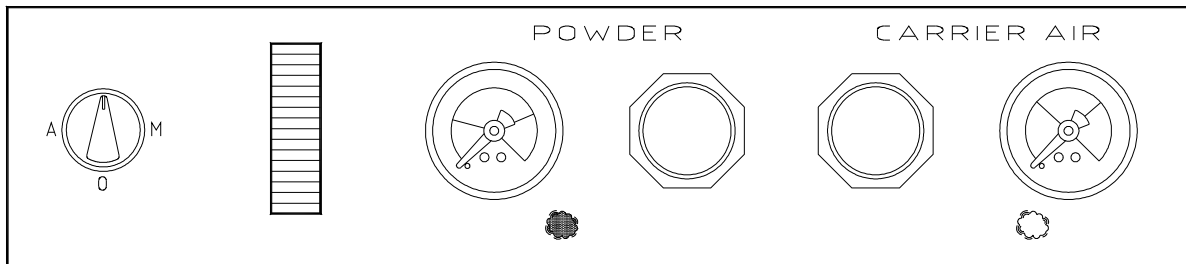
The easy access, trolley mounted controller, is at a very convenient operational level.

The trolley houses the hopper fluidization controls, the Main air inlet and the main earth connections.

TECHNICAL DATA

Dimensions	: Ht 1550 mm W 550 mm D 550 mm
Input voltage	: Single Phase 110/120/220/230/240V, 50 / 60 Hz
Power Consumption	: Max. 250W
Input Air Pressure	: 8 kg/cm ²
Air Connection	: ¾" BSP
Max Air Consumption	: 13 m ³ / hr per Gun
Max. Water content permitted	: 1.3 g
Max. Oil content permitted	: 0.1 ppm

GUN CONTROL PANEL



GUN CONTROL PANEL (GCP)

The GCP is a standard tribo control panel which is individual for all powder guns & can be operated only with the Tribo gun.

Each panel houses the electrical, electronics & pneumatics which control the individual guns. The powder flow & cloud pattern are controlled through the GCP.

TECHNICAL DATA

Dimensions	: Ht 88 mm W 450 mm D 270 mm
Control Elements	: ON/OFF Switch Bargraph indicator for charging indication Conveying air control regulator with gauge Dosing air control regulator with gauge
Control Signals	: System ON Charge Indication

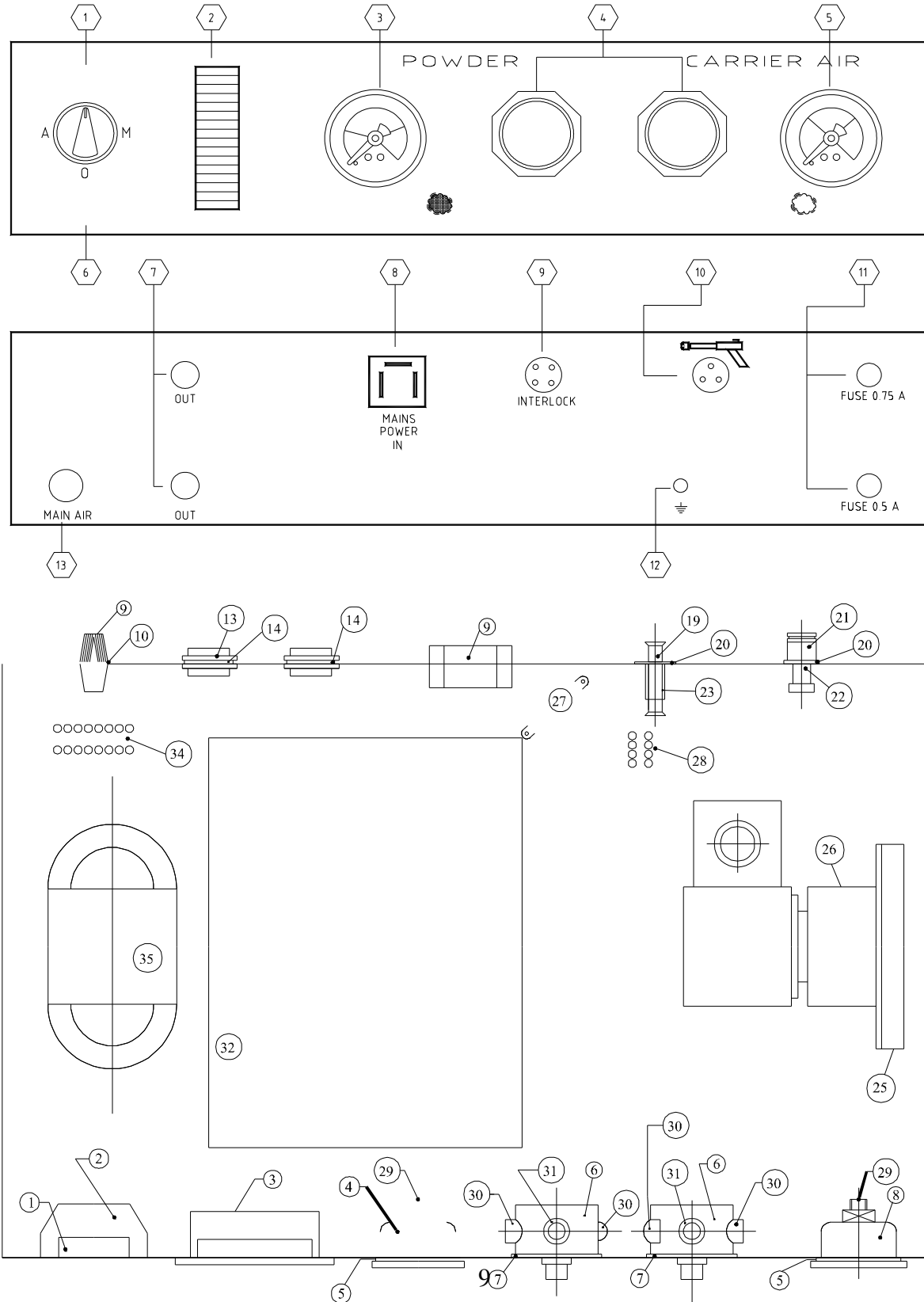
PNEUMATIC DATA

Maximum input pressure	7 bar
Optimum input pressure	6 bar
Maximum water vapour content in compressed air	1.3 g ³ / Nm
Maximum oil vapour content in compressed air	0.1 ppm
Maximum Compressed air consumption	11 Nm ³ / hr.

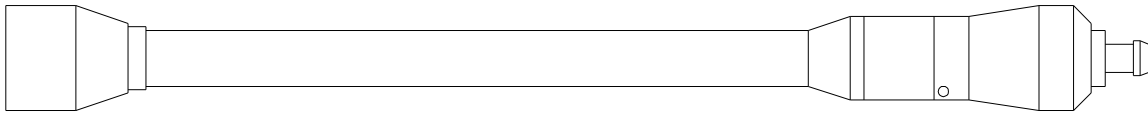
ELECTRICAL DATA

Single phase AC current, selectable voltages	220V or 230/110V
Frequency	50 / 60 Hz.
Connected loads	25 VA
Safety class	IP 54 (P43)
Temperature Range	-2 °C to 50 °C
Nominal Input Voltage to Manual Gun	24 V AC
Type of charge	Positive

GUN CONTROL PANEL (GCP)



AUTOMATIC TRIBO GUN



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AUTOMATIC TRIBO GUN

The Automatic Tribo Spray Guns is based on the friction charging principle. Tribo charging eliminates the force field & free ions which are otherwise developed between the spray gun and the surface to be coated. This ensures more uniform coating even on difficult areas such as corners and interiors. The final finish is distinctly superior.

The MITSUBA Automatic Tribo Gun consists of a body with a special charging chamber and a sprayhead. An exceptionally high electrostatic charge is given to individual powder particles. No neutral zones are created & complicated shapes are uniformly coated - Inside out with reduced orange peel & better wrap around.

The Automatic Powder Spray Guns are provided with the necessary low voltage cables and powder hoses - 10 meters length for each gun.

TECHNICAL DATA

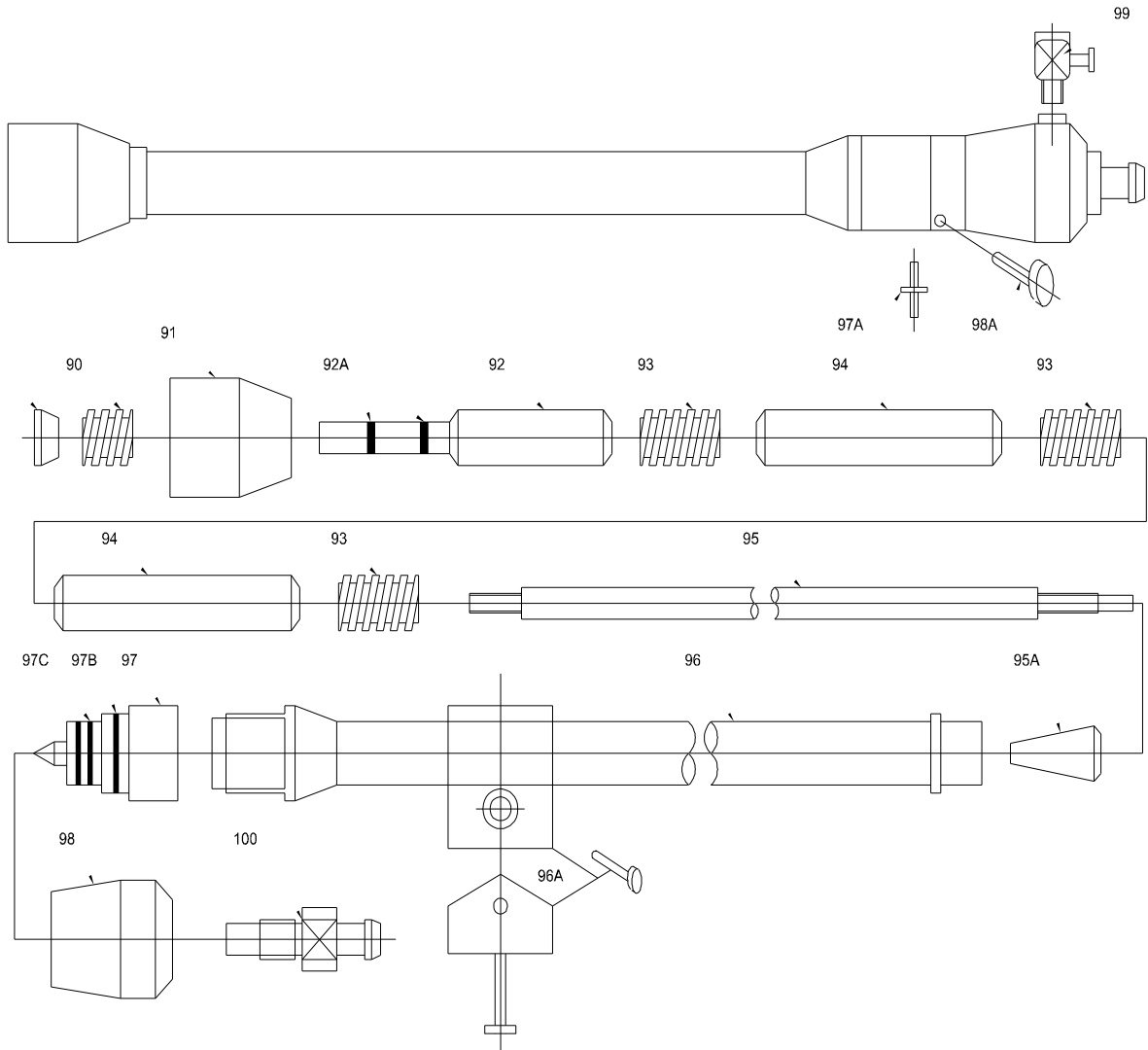
EXTERNAL PNEUMATIC DATA

Maximum input pressure	7 bar
Optimum input pressure	6 bar
Maximum water vapour content in compressed air	1.3 g ³ / Nm
Maximum oil vapour content in compressed air	0.1 ppm
Maximum Compressed air consumption	8 - 13 m ³ / hr (For Powder Flow)

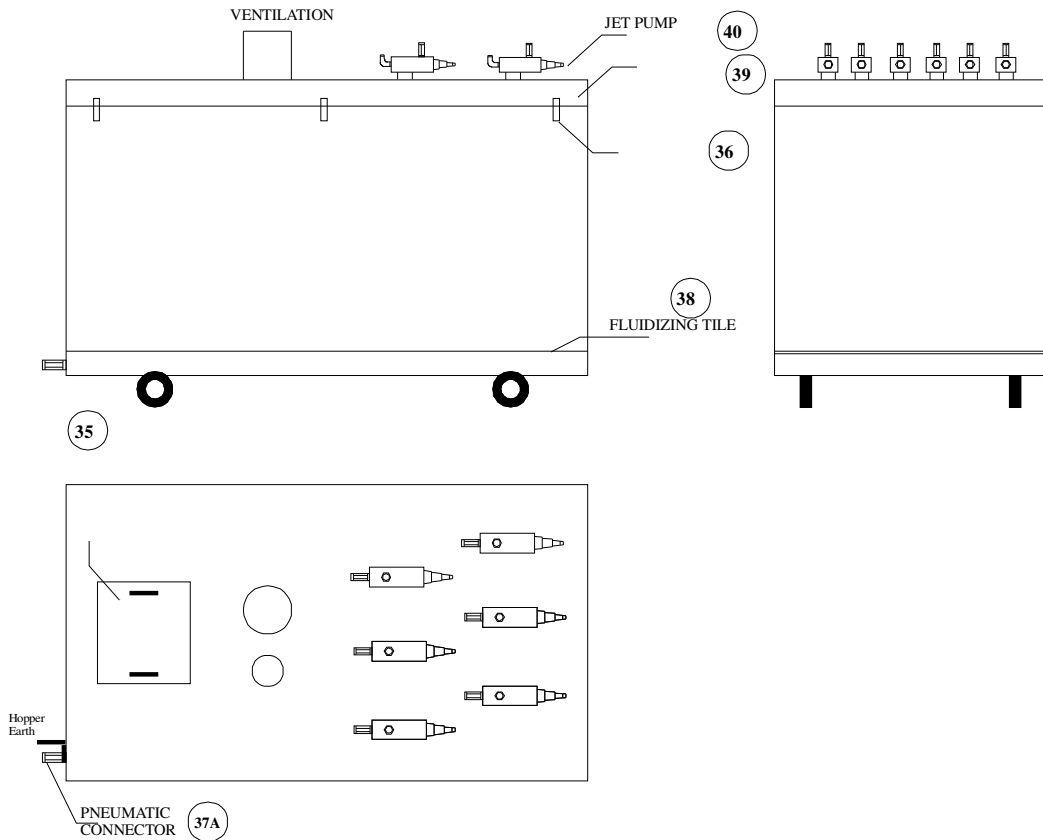
ELECTRICAL DATA

Type of charge	Positive
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AUTOMATIC TRIBO GUN



CENTRALIZED POWDER HOPPER



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**CENTRALIZED POWDER HOPPER
WITH HIGH PERFORMANCE POWDER PUMPS**

This 200 Kgs. Stainless Steel powder hopper is of a fluidization type and having the possibility to remove the porous tile for the cleaning as well as access door to pour powder without disturbing the spraying operation. The powder pumps are mounted on the hopper lid and are manufactured from aluminium and have separate inputs for conveying and dosing air. All pneumatic fittings are of quick disconnect type. The most important characteristic is the ventury design which enables a surge free powder spraying as the dosing air is fed after the suction area.

The concentration of powder-air mixture can be perfectly controlled as the dosing and conveying air controls are individually separate. The max. powder output per pump is 30Kgs./hr.

TECHNICAL DATA

Dimensions : 980mm x 480mm x 800mm.--- 200 kgs
750mm x 480mm x 480mm.--- 100 kgs
450mm x 380mm x 380mm ---- 50 kgs

OTHER DATA

Capacity : 200 Kgs (Other Capacities as Specified)

Air Requirements : Fluidizing - max 20 Nm³ / hr.

No. of Pumps : As Specified.

Powder pump output. : 0 to 30 Kgs / hr. controllable