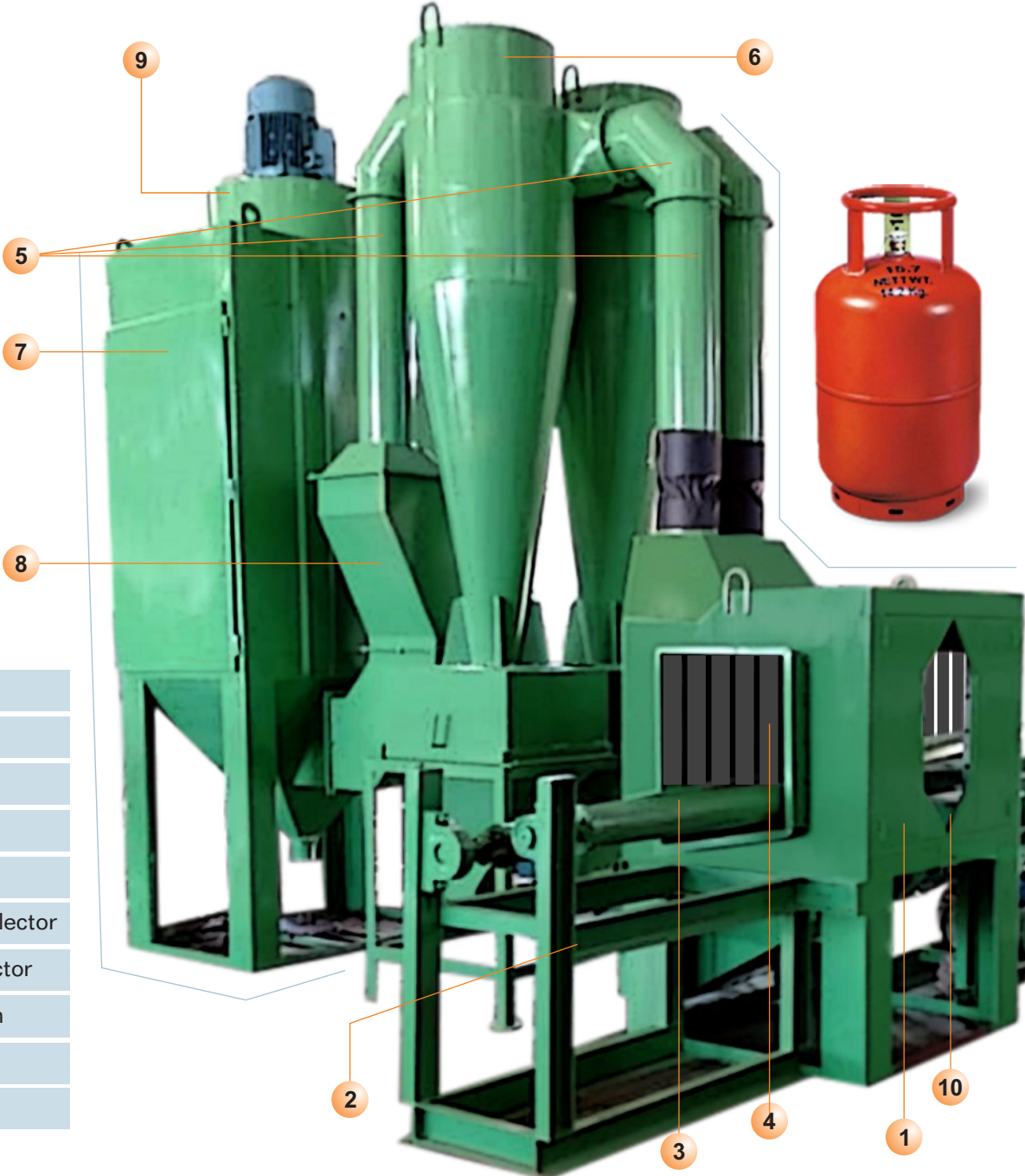


METAL COAT

DRY SPRAY BOOTH

WITH ROLLER CONVEYOR
FOR ZINC METALLIZING OF LPG CYLINDERS



- 1. Spray Booth
- 2. Track
- 3. Twin Roller Conveyor
- 4. Vestibules
- 5. Ducting
- 6. Twin Cyclone Dust Collector
- 7. Fabric Bag Dust Collector
- 8. Ducting 'Y' Connection
- 9. Exhaust Fan
- 10. Gun Stand

Equipment Description:

Semi Automatic Dry Spray Booth for Zinc Metallizing of external surface of LPG cylinder.

Purpose:

For Zinc Metallizing of external surface of LPG Cylinders size

Minimum dia 305mm x 620mm length &
Maximim dia 350mm x 730mm length

Production Output:

700 to 800 nos. per shift cylinder
dia 305mm x 620mm length
with Arc Spray Gun

Brief Working:

The Cylinder is placed manually on twin roller conveyor which moves forward in longitudinal direction as well as rotates inside the dry spray booth. The twin roller conveyor is driven by electric motor. The Operator spray the Zinc with the help of either Wire Flame Spray Gun OR Arc Spray Gun (Air Drive) with Power Source OR Arc Spray Gun (DC Drive) with Power Source.

The Arc Spray Gun system or Wire Flame Spray Gun system is to be procured separately by buyer.

The dust and fume created during Zinc Metallizing process is sucked by the exhaust fan mounted on Fabric Dust Collector. The Cyclone collect the coarse dust and very fine dust get collected in the Fabric Bag Dust Collector, keeping the environment clean and friendly.

TECHNICAL SPECIFICATION:

Spray Booth:

The Spray Booth is fabricated from heavy gauge MS Sheet in folded and welded construction with requisite strength and rigidity. Spray Booth Opening - 900mm (W) x 750mm (H)

Vestibules:

Both sides of Spray Booth are provided with Vestibules to prevent spread of dust and fumes while entry / exit of Cylinder.

Track & Twin Roller Conveyor:

Track is provided on both the sides of the Spray Booth to accommodate twin roller conveyor. The Conveyor is driven by electric motor. Three step pulley arrangement is also provided for speed adjustment.

Track Dimension : 1225mm (L) x 625mm (H)

Drive : 1.5 HP/415V/3P/ 50Hz with Gear Box

Twin Cyclone Dust Collector

Twin Cyclone dust collector, fabricated from heavy gauge MS Sheet is provided to facilitate collection of coarse dust.

Fabric Bag Dust Collector

A fabric bag dust collector is provided to collect the fine dust generated during metallizing operation. It is fabricated from heavy gauge MS Sheet with requisite supports from rigidity. It exhaust the clean air into the atmosphere to keep the environment clean and friendly. The dust collector's hopper is provided with mechanical flap valve for automatic discharge of dust into bin.

The Bag shaking system is through motorized arrangement and the bags are clean periodically for pre set time. The bags are shaken to dislodge the dust from the bag during SWITCH OFF position of exhaust fan motor. Suitable single limb manometer is provided to read pressure drop.

Fan Motor	: 15HP/415V/3P/50Hz
Filter Cloth Area	: 24 Sq. Mtrs. Approx (28 Bags)
Motorized Bag Shaking:	0.5HP/415V/3P/50Hz with Gear Box

Ducting:

Suitable ducting from spray booth outlet to inlet of cyclone dust collector and from cyclone dust collector outlet to inlet of fabric bag dust collector is provided. However, ducting beyond exhaust fan if required same shall be provided by buyer at his cost.

Control Panel with Wiring:

A Control Panel is provided to house push button / switches for motors of dust collector and motor of twin roller conveyor. The unarmored electrical cable from motor of dust collector and motor of twin roller conveyor to control panel shall be provided without conduit (Buyer to provide electrical connection upto Control Panel including earthing as required).

Painting / Colour:

Inside and outside surface of equipment will be brush cleaned and given two coats of Red Oxide Primer and final coat on the exterior of equipment is Synthetic Enamel Air Drying Shade Apple Green.

Cylinder Loading Direction:

As per our design Cylinder loading is from Left Hand side while facing spray booth. However, buyer to specify the cylinder loading direction whether it is from Left side OR Right side while facing spraying booth.

Space Requirement:

Approximately (L x W x H)

Suitable space all around of approx. 1000mm is desirable for maintenance ease.

Utilities to be arrange by Buyer at his cost:

- Oil & Moisture Free Compressed Air @ 70 CFM FAD (free air delivery) at 80psi upto inlet of Control Console for ARC Spray Gun.
- Oxygen / LPG Cylinder if using Flame Spray Gun.
- Spraying Wires in Spool.
- Electric Input Power Supply 415V AC/3P/50Hz
- All wiring and conduit from customer's main power supply to control console and also earthing wherever required.
- Unloading, storing of equipment, shifting of equipment from store to site, unpacking and keeping ready for installation / commissioning.
- Job loading and unloading arrangement.
- Arranging safety wears for operators.

ARC SPRAY SYSTEM

Arc Spray Gun (DC Drive)



Power Source with Control Console Model: 600 AMP

Arc Spray Gun (Air Drive)



Power Source with Control Console Model: 400 AMP

Flame Spray Gun - 12M



Fabric Bag for Dust Collector



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