Technical Specifications:

Oven

- Generally electric fired ovens are selected for small batch size, i.e., less heat load. For bigger batch size, oil fired or gas fired ovens may be selected.

Success in powder coating management either the overhead track or the ground rails can be designed depending on space constraints.

Lighter articles which are hung on jigs in big numbers. Ground trolley is used for heavy components. In both cases, a complete loop of track and trolley is used for material handling of articles.

Automatic Equipments

- Features:
  - Touch screen HMI Features:
    - User friendly operator.
    - Serial port data transfer.
    - PLC for speed and stroke selection.
    - Solid state contact conductivity.
    - Inbuilt jerk free movement.
    - Touch sensitive human machine interface.
    - Oscillator - EMR 8
    - Reciprocator - EMR 8
    - Auto spray gun - E 75 K.

System:

- Perfecting the science of Powder Management

Performance... Quality... Profitability

General Electric / Oil

Dumb Bells

Automatic Proportionate mixing of fresh and recovered powder

Oven (electric)

- Electricity Load:
  - 10 KVA 230V.

- Electric Motor:
  - 1.5 HP 230V 50 Hz.

- Actuator:
  - 24 V DC.

- Air Pressure:
  - 8 Bar (300 KPA).

- Temperature Control:
  - +10°C to +40°C.

- Modular Dimple Air Wash Cycle:
  - 30 mm.

- Cooling Zone:
  - 30 mm.

- Internal Dimensions:
  - 261 x 262 x 800 mm.

- Maximum Load:
  - 350 kg per trolley.

- Maximum Load (kg):
  - 300 kg.

- Waiting Zone:
  - 80 kg per trolley.

- Powder Management System

- Perfecting the science of Powder Management

Performance... Quality... Profitability

General Electric / Oil

Dumb Bells

Automatic Proportionate mixing of fresh and recovered powder

Oven (electric)

- Electricity Load:
  - 10 KVA 230V.

- Electric Motor:
  - 1.5 HP 230V 50 Hz.

- Actuator:
  - 24 V DC.

- Air Pressure:
  - 8 Bar (300 KPA).

- Temperature Control:
  - +10°C to +40°C.

- Modular Dimple Air Wash Cycle:
  - 30 mm.

- Cooling Zone:
  - 30 mm.

- Internal Dimensions:
  - 261 x 262 x 800 mm.

- Maximum Load:
  - 350 kg per trolley.

- Maximum Load (kg):
  - 300 kg.

- Waiting Zone:
  - 80 kg per trolley.

- Powder Management System

- Perfecting the science of Powder Management

Performance... Quality... Profitability

General Electric / Oil

Dumb Bells

Automatic Proportionate mixing of fresh and recovered powder

Oven (electric)

- Electricity Load:
  - 10 KVA 230V.

- Electric Motor:
  - 1.5 HP 230V 50 Hz.

- Actuator:
  - 24 V DC.

- Air Pressure:
  - 8 Bar (300 KPA).

- Temperature Control:
  - +10°C to +40°C.

- Modular Dimple Air Wash Cycle:
  - 30 mm.

- Cooling Zone:
  - 30 mm.

- Internal Dimensions:
  - 261 x 262 x 800 mm.

- Maximum Load:
  - 350 kg per trolley.

- Maximum Load (kg):
  - 300 kg.

- Waiting Zone:
  - 80 kg per trolley.

- Powder Management System

- Perfecting the science of Powder Management

Performance... Quality... Profitability

General Electric / Oil

Dumb Bells

Automatic Proportionate mixing of fresh and recovered powder

Oven (electric)

- Electricity Load:
  - 10 KVA 230V.

- Electric Motor:
  - 1.5 HP 230V 50 Hz.

- Actuator:
  - 24 V DC.

- Air Pressure:
  - 8 Bar (300 KPA).

- Temperature Control:
  - +10°C to +40°C.

- Modular Dimple Air Wash Cycle:
  - 30 mm.

- Cooling Zone:
  - 30 mm.

- Internal Dimensions:
  - 261 x 262 x 800 mm.

- Maximum Load:
  - 350 kg per trolley.

- Maximum Load (kg):
  - 300 kg.

- Waiting Zone:
  - 80 kg per trolley.
Philosophy

Starfield Equipments Pvt. Ltd., has been proudly wearing the crown of “Pioneer” for the last 30 years. The Intech Group has had the privilege of introducing electrostatic powder coating on the Indian market with the twin technologies, Statfield Equipments Pvt. Ltd., and tatfield Equipments Pvt. Ltd., in the year 1985.

With expertise gained over 3 decades, Starfield has innovated various elements of the powder coating process to achieve customer satisfaction through the Science of Powder Management. Be it the high transfer efficiency of the Shalaka Series Gun or the High Recovery Efficiency of the Multi Cyclone, Starfield has been continuously upgrading the Powder Management Science.

Over the years, Starfield has added automatic applicators, recycling system and post filter to tie-up all loose ends in Powder Management. To give justice to Intech Innovative Technologies, Starfield has and will keep on perfecting the Science of Powder Management.

Shalaka 17

The new gun powder coating gun based on concept of low energy generation. It gives enriched charging while making it safer for use. The unique external path leads to uniform powder flow. All installed parts of modern plastic makes it bug-free light-weighted, well-defined.

Features:

- Touch Trigger : fatigue free operation and with all the gun features
- Keep an eye on air supply, powder without charging faulty
- Reduced spray consumption

External Powder Path

Easy & quick colour change in the airless world. Maintenance is easy and easy, providing maximum benefit of time and labour saving.

Direct Suction Attachment

Powder can be used through separate container.

Control Block

Powder pump has(unique) powder outlet due to unique design. High volume capacity pump. Powder is recycled automatically. This high volume capacity pump gives optimum utilization of powder.

Integration Concept

Brushes, when integrated with Equipment and post filter gives:

- Automatic mixing of fresh & recovered powder
- Automatic feeding of powder to spray gun
- Prevention of entry of fines in the atmosphere

Optional Accessories

- Automatic feeding
- Hose Holder, only for manuwareing

Powder coating equipments

Technical specifications

<table>
<thead>
<tr>
<th>Powder coating equipments</th>
<th>R</th>
<th>W</th>
<th>N</th>
<th>O</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprayer gun</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>I / p Frequency</td>
<td>20 Khz (+/-10%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I / p Voltage</td>
<td>60 V AC (+/-10%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O / p Voltage</td>
<td>90 KV, DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>5 to 20 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hopper type</td>
<td>V / A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of Gun</td>
<td>Shalaka 17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>PP 17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trolley</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nozzle</td>
<td>Flat, Star, Plus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Post Filter

98.5% efficiency of the Multi Cyclone helps in maximum utilization of chargeable powder. But to comply with Pollution Control Laws, the exhaust fumes need to be treated. The post filter accepts the powder and recovers it back. A number of filter cartridges are mounted inside the sealed metallic chamber. The air enters the chamber and the filtration occurs. The residual purge enters the powder and cleans the cartridge. Ozone is given out through the driven motor.

Recycling System

The recycling system helps in optimum utilization of powder. Powder is mixed automatically back to the gun through the overhanging.

Sewing Machine

The high sewing machine can handle powder from both Multi Cyclones. The sewers are available in variety of base different to different powder. Sufficient dampening gives optimum pressure.

Ejector Pump

The high volume capacity pump sucks powder from the multi cyclone recovery system. It is the sieve chamber through Moduler Multicyclone.

Recovery Booth

The unique external powder coating spray chamber with the multi cyclone recovery gives almost 100% powder utilization. It is maintenance free and has a very long life. The powder booth is easy to clean, reading in a quick colour change and is to operate, the powder supply is to the booth and maximum recovery through the multi cyclone mist in pollution control.

Moduler Multicyclone

Guaranteed efficiency of 98.5% with a very long life gives the Multicyclone an edge over other powder recovery systems. The high velocity of powder in the multicyclone reduces powder sticking, so drawing time is negligible.

Pollution Free Environment

98.5% efficiency of the Multicyclone helps in maximum utilization of chargeable powder. But to comply with Pollution Control Laws, the exhaust fumes need to be treated. The post filter accepts the powder and recovers it back. A number of filter cartridges are mounted inside the sealed metallic chamber. The air enters the chamber and the filtration occurs. The residual purge enters the powder and cleans the cartridge. Ozone is given out through the driven motor.