Product Description and application

- V Plough feeders are used as diverters for diversion of Powder, Bulk & Solids from belt during Conveying.
- V Plough manufactured by CEPL provides a convenient mean for delivering material from a reclaim Belt Conveyor to Longitudinal Slot Bunkers.
### TECHNICAL SPECIFICATION FOR V-PLOUGH FEEDERS

<table>
<thead>
<tr>
<th>V PLOUGH FEEDERS</th>
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</thead>
<tbody>
<tr>
<td>1. Type</td>
<td>Motorized with roller tables</td>
</tr>
<tr>
<td>a. Design Capacity</td>
<td>385/350 TPH</td>
</tr>
<tr>
<td>2. Material of Construction</td>
<td></td>
</tr>
<tr>
<td>a. V- Plough Blade</td>
<td>10 Thk. MS mother plate with SS 409 Liner</td>
</tr>
<tr>
<td>b. Mounting Structure</td>
<td>MS IS 2062</td>
</tr>
<tr>
<td>3. Operation</td>
<td>Auto Through Motorized Actuators</td>
</tr>
<tr>
<td>4. Arrangement of diverters</td>
<td>V-plough blades are above the carrying belt and the roller table are between carrying and return belt. Both the blade and roller table are connected by suitable linkage, so that when blades is lowered on the belt for diverting the material the roller table shall move up flattening the belt below the V- Plough blade to facilitate smooth diversion of material</td>
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<tr>
<td>5. V- Plough Mounting Structure</td>
<td>Four legged structure designed to withstand the impact and horizontal thrust of moving material while diverting</td>
</tr>
<tr>
<td>6. Limit Switches</td>
<td>Suitable limit switch are provided to facilitate interlocking / indication of status of V- plough in control room</td>
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Features

- Specially designed V arm is provided with wear resistance liner made from wear resistance steel.
- Various options of Plough Drive system like Hydraulic / Pneumatic / Electro Mechanical Actuators.
- Various Control schemes to provide either local operation from the machine or remote operation from control station with selector switch or both.
- Machine is provided with all safety control and limit switches, such as anti-collision switch, automatic stop switches, sensors for arm travel.
- Machine can be provided with assembly consisting of Side Discharge Chutes with wear plates.

Advantages

- Adaptability to different materials and whether conditions permit the plough feeder to be used where other equipment fail.
- It can be used for verity of materials like coal, coke, limestone, dolomite, iron ore etc.
- Environmental friendly, pollution is minimum.
Product List

Type: Mechanical link type
Model: CEPL-VPF-800
Mode of control: Remote/ Local
Belt width: 800 mm
Actuator: Electro-Mechanical linear actuators.
Stroke: 280 mm
Velocity: 15 m/s

Type: Mechanical link type
Model: CEPL-VPF-900
Mode of control: Remote/ Local
Belt width: 900 mm
Actuator: Electro-Mechanical linear actuators.
Stroke: 250 mm
Velocity: 10 m/s

Type: Mechanical link type
Model: CEPL-VPF-1200
Mode of control: Remote/ Local
Belt width: 1200 mm
Actuator: Electro-Mechanical linear actuators.
Stroke: 230 mm
Velocity: 10 m/s

Type: Mechanical link type
Model: CEPL-VPF-1600
Mode of control: Remote/ Local
Belt width: 1600 mm
Actuator: Electro-Mechanical linear actuators.
Stroke: 220 mm
Velocity: 8-10 m/s