

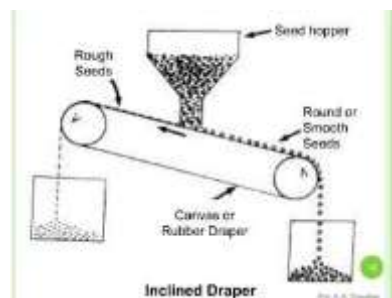


Unit 3 – Topic 4

Inclined Belt Separator

Inclined Belt Separator

- The separation due to difference in shape and surface texture.
- The mixture to be separated is fed over the center of an inclined draper moving in upward direction.
- The round and smooth grains roll or slide down with the draper at faster rate than the upwards motion of the belt and these are discharge in a hopper .
- The flat shape or rough surfaced particles are carried to the top of inclined draper and dropped off into another hopper .
- The belts of different degrees of roughness may be used as draper for separate materials.
- **The inclined belt separator**, or draper, separates seed by their relative ability to roll or slide, which is in turn determined by the seed's shape and surface texture.



Uses

The seed mixture is fed onto an inclined draper belt which is moving toward the high end. The slope of the draper belt can be adjusted to more or less slope, to the slope that causes round seed to roll or slide downhill, while flat or rough seed can lie on the draper belt and be carried upward and fall off the high end of the draper belt (Figures 33.1, 33.2). While the draper is not in general use, it offers great flexibility in separating seed which differ in their relative ability to roll.

Application

It transfers light weight, bulk and powder materials like seeds, coffee beans , grains , powder setc. This machine helps for easy movement of material from one place to another place. The product received will be fed over the belt which shall transport the item from one place to another. Newtech Industries Mangalore is a well-known manufacturer, exporter, service provider and supplier of this machine.

Inclined Belt Conveyor is mainly used to collect material from one machine and transfer to another machine to ensure continuous process. It can be in trough shape or flat shape also.



SNS COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Coimbatore – 641035.



Key Features

- It is available from 100 mm to 1000 mm belt width.
- Available from 500 kg per hour to 10 ton per hour capacity.
- Easy tensioning of belt
- Crowded inner flat pulley as standard for self alignment.
- Geared motor drive with sprocket system available as standard.
- It comes with standard Food grade belt.
- In feed hopper available on request.
- Belt cleaning scraper available if required.