

Product Name :
Screw Conveyor (Variable Speed)

Product Code :
NLAB-TECHNICALAB31018



Description :

Screw Conveyor (Variable Speed)

Technical Specification :

The screw conveyor is one of the oldest and most versatile conveyor types. These are compact, requiring little headroom and no return mechanism. The material is also mixed as it passes through the conveyor.

Screw or helical flight conveyors consists of a steel shaft having a spiral or helical fin fastened to the shaft and rotating in a trough without touching the through, so that the helical fin pushes the material along the trough. It is fitted with a variable speed motor. Drive with a compatible reduction gearbox to run the screw conveyor at variable speed. A RPM indicator with Proximity sensor indicates the RPM of conveyor.

Experimentation:

To study the effect of various operating parameters on conveying.

To study the effect caused by changing the angle of inclination.

To study the effect of RPM on efficiency of conveyor.

Utilities Required :

Material for Feed.

Electric Supply : Single phase, 220 V AC, 1 kW.

Floor Area 1 m x 2 m.

Technical Details :

Trough: Material Stainless Steel Length 750mm. (approx.)

Screw: Material Stainless Steel Dia 75mm, Length 750mm., Pitch Scale 75mm

Central Shaft for Screw: Material Stainless Steel, Length 750mm.

Drive: Standard make FHP Motor with Drive coupled to Reduction Gear Box.

Feed Hopper: Suitable capacity with feed control arrangement.

Bins: 2 Nos. Collecting Bin and Distributing Bin

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