



DESIGN AND SELECTING THE PROPER CONVEYOR-BELT

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ABSTRACT:

Belt conveyor is the transportation of material from one location to another. Belt conveyor has high load carrying capacity, large length of conveying path, simple design, easy maintenance and high reliability of operation. Belt Conveyor system is also used in material transport in foundry shop like supply and distribution of molding sand, molds and removal of waste. This paper provides to design the conveyor system used for which includes belt speed, belt width, motor selection, belt specification, shaft diameter, pulley, gear box selection, with the help of standard model calculation.

1. INTRODUCTION:

During the project design stage for the transport of raw materials or finished products, the choice of the method must favor the most cost effective solution for the volume of material moved; the plant and its maintenance; its flexibility for adaptation and its ability to carry a variety of loads and even be overloaded at times.

Basic drawing of a belt conveyor



2. THE PARAMETERS FOR DESIGN OF BELT CONVEYOR:

- Belt speed
- Belt width
- Absorbed power
- Gear box selection
- Drive pulley shaft

For designing a conveyor belt, some basic information e.g. the material to be conveyed, its lump size, tonnage per hour, distance over which it is to be carried, incline if any, temperature and other environmental conditions is needed.

4. DESIGN CALCULATIONS OF CONVEYOR

INPUT DATA

Bulk density (ρ) = 1.7 T/m³

Size of lump = 0-10 mm

Belt width (B) = 1850 mm

Capacity (C) = 800 - 900 TPH

Lift of the material (H) = 5.112 m

Length between centers (L) = 29m

Belt speed (V) = 1.2 m/s

The sagging angle (α) = 35°

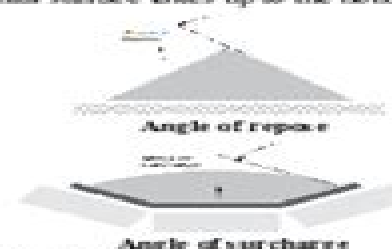
Conveyor inclination = 10.26°

Take Up Travel = 600 mm

Type of Take up = SCREW

5. DESIGN OF BELT CONVEYOR

The design of the belt conveyor must begin with an evaluation of the characteristics of the conveyed material and in particular the angle of repose and the angle of surcharge. The angle of repose of a material, also known as the "angle of natural friction" is the angle at which the material, when heaped freely onto a horizontal surface takes up to the horizontal plane.



Angle of surcharge β :

The area of the section "S" may be calculated geometrically adding the area of a circle A1 to that of the trapezoid A2.



The value of the conveyed volume IVT may be easily calculated using the formula:

$$S = \frac{C}{3600} \times 1000$$

where:

IVT = conveyed volume at a conveyor speed of 1 m/s

Angles of surcharge, repose, and material fluency:

Floumeny's angle of repose diagram - 18					
18°	20°	22°	24°	26°	28°
Angle of repose	18-20°	20-22°	22-24°	24-26°	26-28°
Nature and condition of materials					
Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc., which are easily carried, except those which are carried, loose, without being fused or agglomerated.	Easily carried, except those which are carried, loose, without being fused or agglomerated.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc., which are easily carried, except those which are carried, loose, without being fused or agglomerated.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc., which are easily carried, except those which are carried, loose, without being fused or agglomerated.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc., which are easily carried, except those which are carried, loose, without being fused or agglomerated.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc., which are easily carried, except those which are carried, loose, without being fused or agglomerated.

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Michalakopoulos,G.N. Panagiotou,2018-05-08 This text looks at mine planning and equipment and covers topics such as design and planning of surface and underground mines geotechnical stability in surface and underground mines and mining and the environment *NexGen Technologies for Mining and Fuel Industries (Volume I and II)* Pradeep K. Singh,V.K. Singh,A.K. Singh,D. Kumbhakar,M.P. Roy,2017-03-06 The papers in these two volumes were presented at the International Conference on NexGen Technologies for Mining and Fuel Industries NxGnMiFu 2017 in New Delhi from February 15 17 2017 organized by CSIR Central Institute of Mining and Fuel Research Dhanbad India The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies The major issues focused on are Innovative Mining Technology Rock Mechanics and Stability Analysis Advances in Explosives and Blasting Mine Safety and Risk Management Computer Simulation and Mine Automation Natural Resource Management for Sustainable Development Environmental Impacts and Remediation Paste Fill Technology and Waste Utilisation Fly Ash Management Clean Coal Initiatives Mineral Processing and Coal Beneficiation Quality Coal for Power Generation and Conventional and Non conventional Fuels and Gases This collection of contemporary articles contains unique knowledge case studies ideas and insights a must have for researchers and engineers working in the areas of mining technologies and fuel sciences

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Mine Planning and Equipment Selection 1998 Raj K. Singhal,1998-01-01 This work details the findings of the 7th International Conference on Mine Planning and Equipment Selection of 1998 held in Calgary Topics include design and planning of surface and underground mines geotechnical stability in surface and underground mines and mining and the environment

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