



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°

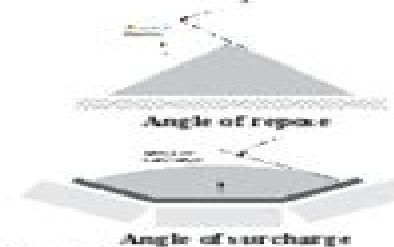
Conveyor inclination = 10.26°

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:

$$S = \frac{C}{3600} \times 60 \times 1000$$

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. are piled up in a conical shape.	Easily piled up, such as powders, etc. are piled up in a conical shape.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc. are piled up in a conical shape.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc. are piled up in a conical shape.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc. are piled up in a conical shape.	Substances of fine texture, uniform and fused, such as small grains, lumps, thin plates, etc. are piled up in a conical shape.

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Proceedings of Mechanical Engineering Research Day 2017 Mohd Fadzli Bin Abdollah,Tee Boon Tuan,Mohd Azli Salim,Mohd Zaid Akop,Rainah Ismail,Haslinda Musa,2017-05-29 This e book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 MERD 17 Melaka Malaysia on 30 March 2017 **Energy Research Abstracts** ,1984 *Machine Design* Waterways Experiment Station (U.S.),1952 *Applied Mechanics Reviews* ,1967 **Fuzzy Systems and Data Mining V** A.J. Tallón-Ballesteros,2019-11-06 The Fuzzy Systems and Data Mining FSDM conference is an annual event encompassing four main themes fuzzy theory algorithms and systems which includes topics like stability foundations and control fuzzy application which covers different kinds of processing as well as hardware and architectures

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