

Drag and Flight Conveyors Design Calculation

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Drag and Flight Conveyors

Drag conveyors are used where multiple loading or discharge points are required and a totally enclosed conveyor is needed for dust containment, capable of handling fine materials ranging from dust to 8 inch (200 mm) lumps, where capacity requirements are high, 200 - 400 TPH. Drag conveyors are used when the material is somewhat fluid, such as TSP (fertilizer), raw metal, and trash content.

3. Chain conveyor or apron chain conveyor calculation system. The load tensions are calculated as indicated below:

$$T = F_1 + F_2 + F_3 + F_4$$

$$F_1 = \frac{W_1 + W_2 + W_3 + W_4 + W_5}{2}$$

$$F_2 = \frac{W_5 + T + W_6}{2}$$

$$F_3 = \frac{W_6 + W_7 + W_8 + W_9 + W_{10} + W_{11} + W_{12}}{2}$$

Where:

T = Total chain force or total work chain tension - (kgf) (kN)

F₁ = Upper chain tension - (kgf) (kN)

F₂ = Down chain tension - (kgf) (kN)

F₃ = Lift chain tension - (kgf) (kN)

W₁ = Conveyor total load - (kg) (kN)

W₂ = Conveyor material weight - (kg) (kN)

W₃ = Total conveyor skirt length (including inclined/declined) - (m) (ft)

W₄ = Conveyor horizontal skirt length - (m) (ft)

W₅ = Conveyor slope (inclined) / declined extension skirt length - (m) (ft)

W₆ = Total chain weight (use manufacturers tables according to chain type)

W₇ = Driving power (kW) - (HP)

W₈ = Upper chain friction factor - 0.25 - 0.35

W₉ = Down chain friction factor - 0.25 - 0.35

W₁₀ = Lift chain friction factor - 0.25 - 0.35

W₁₁ = Chain conveyor speed - (m/s) - (ft/min)

W₁₂ = Driving sprocket diameter - (mm) - (in)

W = Bulk density of conveyed material - (kg/m³) - (lb/ft³)

4. To calculate the driving power (CV or HP), use the following formulae:

Metric:
$$P = \frac{T \times V}{1000}$$

British:
$$P = \frac{T \times V}{33000}$$

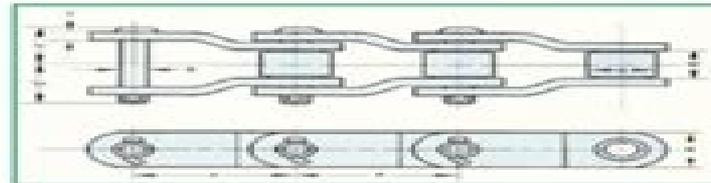
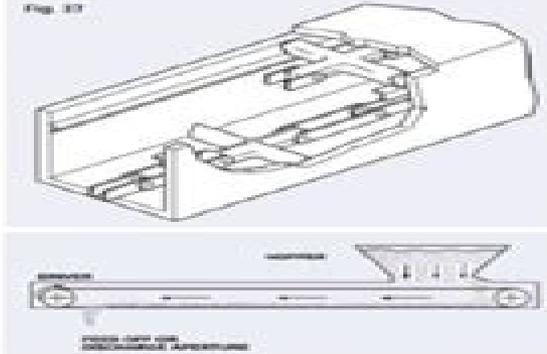
Where:

P = Driving power (kW) - (HP)

T = Total chain force or total work chain tension - (kgf) (kN)

V = Chain conveyor speed - (m/s) - (ft/min)

Fig. 37



CHAIN CONVEYORS OR APRON CONVEYORS SUBSYSTEM

Chain conveyors or apron conveyors are commonly used in mining and mining industries to transport heavy materials. The manufacturing industry also use widely chain conveyors to carry coal, pellets, sand, gravel and general industrial materials. These conveyors can be single or double chain strand or Caterpillar type chain. Single chain conveyors are generally easy to install, and have very minimum maintenance for users.

Many industry sectors use chain conveyor technology in their production lines. The automotive industry commonly uses chain conveyor systems to carry car parts through paint plants. Chain conveyors also have widespread use in the white and brown goods, metal finishing and distribution industries.

Chain conveyors are also used in the printing and coating industry, cosmetics, thermal treatment of metals, feed and discharge systems of boilers. In automatic painting systems the products are attached to an apron feed chain conveyor, keeping products off of the floor allows for higher productivity levels.

Chain Calculation Manual For Chain Conveyors

American Chain Association



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Standard Handbook of Chains American Chain Association, 2005-09-20 Since its founding the American Chain Association ACA has set the standard of excellence in developing the chain industry and enhancing the benefit to customers The first edition of Chains for Power Transmission and Material Handling served as the keystone reference to the field for more than twenty years Fully updated with the latest developm

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