

Overview

Use this button

Applications for belt conveyors are diverse, but all share one, which conveyor is always used to move an object from position A to position B. Applications vary from simple conveying systems to complex pick and place systems with indexing and part accumulation. Check out our design library for inspiration.

[Browse Design Resource Database](#)

Technical

* Before the shutdown of the conveyor is not the same in both directions because of the start/stop configuration. The belt can move a larger payload when it is moving the payload towards the meter (pulling) compared to when the payload is moving away from the meter (pushing).
Below setup for maximum payload are calculated at equilibrium and assume a horizontal conveyor. The linking factor is also between the belt and conveyor/pulley. To determine the correct parameters for mass transfer applications, that include acceleration and inclines use the Calculating Frequency/Linking/Force section on this page.

Revised: (data/eq/val from the above table) \times (temperature factor) \times (shape factor)

Temperature (°C)	Temperature Factor
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Also, frequent start/stops of the conveyor can have a negative effect on the payload of the conveyor. You can find the start/stop factor in the following table.

Continuous Run or 1 starting per hour

Available Sizes

Optimal average accuracy

605, 1 305	605	6
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2400, 3240	600	8
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To calculate the required least square delivery:

Implication

$$A_{\text{eff}}(N) = n(N) \left(A_{\text{eff},\text{res}} \left(\frac{N}{n(N)} \right) + \text{var} \left(\frac{N}{n(N)} \right) \text{cov} \left(\frac{N}{n(N)}, \text{cov} \right) \right) + A_{\text{eff},\text{nonres}}(N)$$

$$k_{\text{cat}}/K_M$$
 is derived as combination of product $\left(\frac{dP}{dt}\right)$

θ = inclination angle from horizontal
and ft)

The deformation time for each manager is

192

80%	90.0
85%	92.0

In this case our variables are 20kg for mass, 5.6m/s² for acceleration, 30 degrees for angle theta, and 120N for deflection force. These variables lead to a required driving force of 2270N and 9300N. Looking at the Force vs speed graph below it can be seen that the 90, 50, 0.1, 0.0001 or 90, 50, 0.1, 0.0001 meters will be very



Assembly Instructions



Social Media Platform	Percentage of Respondents
Facebook	85%
Twitter	75%
LinkedIn	65%
YouTube	55%

[illegible][illegible]



Transfer Plate

