Belt Conveyors

Advantages & Limitations



TPI Engineered Systems, Inc.

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Belt Conveyors

Advantages

Belt Conveyors are one of the most economical ways of moving material long distances and have been found to be an economical replacement for truck haulage.

When conveyed on a conventional Belt Conveyor, your product will realize little to no product degradation caused by the actual conveying of the material. There may be some product degradation at transfer points.

Belt Conveyors can accommodate changes in elevation along the path of the conveyor, both inclines and declines when properly designed.

While carried on conventional Belt Conveyors, even with some cover arrangements, the product is normally visible while being conveyed.

With proper design considerations, product can be loaded virtually any place along the Belt Conveyor.

A Belt Conveyor can also be designed with "Trippers" to unload the material almost any place along the length of the Belt Conveyor.

Belt Conveyors can be designed with magnets for metal separation while being conveyed.

Belt Conveyors can also include Belt Scales (Weight Scales) for continuous product weighing during operation.

Belt Conveyors can also be designed with a pivot at one end allowing the discharge and subsequent stockpile to be moved over an large area with this equipment being referred to as a Radial Stacker.

For more severe inclines, The Belt can be Cleated to retard product roll back while being conveyed.



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Limitations

Even when covered to protect the material from rainfall, the normal design of a belt conveyor is open. If the product needs to be contained, covers and or drip pans can become expensive and cumbersome.

If not designed properly, there can be material carry over from the belt discharge and this can become a house keeping problem.

Belt Conveyors are not as a rule suited for handling materials that are very sticky making belt cleaning difficult, somewhat expensive and generally not very successful.

When a sticky material is carried on a Belt Conveyor, it will ultimately get transferred to the return side of the belt and then to the rolls, idlers and pulleys, this can result in belt training (sometimes referred to as tracking) becoming an ongoing issue.

As belt conveyors are primarily considered open devices, Odor control is virtually impossible.



Other Equipment By

TPI Engineered Systems, Inc.

Bulk Materials Handling Systems

Belt Conveyors & Belt Feeders

Drag Chain Conveyors

Chain Reclaimers

Radial Stackers

Screw Conveyors & Screw Feeders

Live Bottom Storage and Bins

Bucket Elevators

Apron Conveyors & Apron Feeders

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