

Bucket Elevators

Advantages & Limitations



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Engineered Systems
Systems Engineering and Design

Bucket Elevators

Advantages

Bucket Elevators are Designed to handle a wide variety of bulk materials - from average to very free-flowing.

Bucket Elevators are completely enclosed for dust and weather-tight operation.

Bucket Elevators have Inlet sections that are primarily controlled fed by other equipment but can be flood loaded with bulk materials if properly designed.

Bucket Elevators are considered to have relatively large Conveying Capacities. Most have a standard height of approximately 100 feet but can be designed for higher lifts when necessary.

Controlled fed Bucket Elevators can be designed for a Smooth Transportation of the material for minimal product degradation due to elevating.

Bucket elevators when properly designed and installed with the proper maintenance schedules give many years of operating life with performance predictability and relatively low maintenance

Bucket elevators can fit the geometry of many areas and take the application area.

Limitations

Lump size for Standard Elevators should be less than 6". Other Lump Sizes can be designed for and accommodated. Consult TPI Engineering for your particular application.

The material should not be very sticky. Sticky material tend to be difficult to discharge from the bucket but there are other considerations and bucket materials that can overcome this issue at times. Consult TPI Engineered Systems, Inc.

The temperature of the materials should be ambient or slightly above. However TPI Elevators can be designed to handle Higher Temperatures. Consult TPI Engineered Systems, Inc.

The materials should not be excessively corrosive or abrasive.

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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