



## “Z” PATTERN BUCKET ELEVATORS and INCLINED BELT CONVEYORS



### “Z” Pattern Bucket Elevators:

- Available in capacities from 5m<sup>3</sup>/hr to 60m<sup>3</sup>/hr.
- Fabrication from optional carbon steel, stainless steel with carbon steel, stainless steel or plastic buckets.
- Offers versatile installation possibilities.
- Most suitable for a wide range of applications and non-product degradation material transfer requirements.

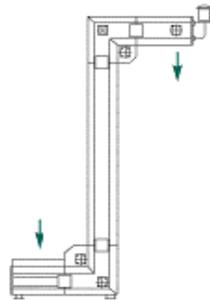
### Inclined Belt Conveyors:

- Available in capacities from 5m<sup>3</sup>/hr to 80m<sup>3</sup>/hr.
- Incorporates either painted carbon steel or stainless steel components with polyurethane cleated belt.
- Cleat design and style to suit product characteristics.
- Fabricated to meet the conveying application specifications and material characteristics.

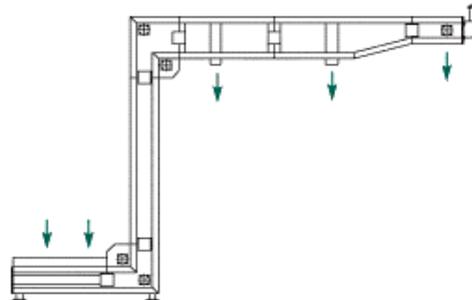
## ADVANTAGES

There are significant advantages to be found in incorporating the “Z” Pattern Bucket Elevator:

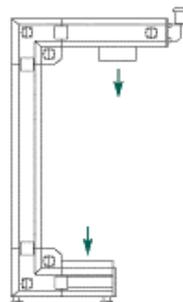
- Stable and careful conveying of friable products
- 100% self-cleaning
- Easily removed buckets where external wash down or cleaning is necessary
- Compact cross-sectional area suits installation within tight spaces
- Will not harbour material deposits within cleats or side wall rufflets as is found in inclined belt type conveyors



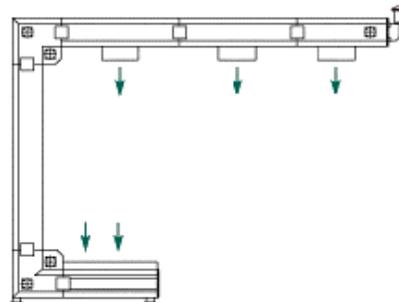
S - STANDARD



S - WITH MULTIPLE SIDE DISCHARGE



“C” CONFIGURATION WITH DISCHARGE ON BOTTOM OF UPPER HORIZONTAL LEG



“C” CONFIGURATION WITH MULTIPLE INLETS AND BOTTOM DISCHARGES

# “Z” Pattern Bucket Elevator Universal Model

## ➤ Application

Suited for incorporation into vertical transfer applications where gentle handling is necessary such as seed, rice grain and specialty grain handling applications as well as finished product handling where non-degradation is required.

## ➤ Technical Parameters

- Discharge outlet height to be designed to suit individual application
- Capacity: 7~10 MTPH
- Direct coupled drive assembly
- Fitted with enclosed tension module with threaded spindles and guide way bearings. The guide system is built in for changing the bucket overlap.
- Fitted with enclosed corner module complete with side plates, chain guides and chain sprocket
- Intermediate modules fitted with side plates where the chain runs in a bolted on folded guide way
- Various bucket material to suit different application requirements. The buckets are removeable for cleaning and designed for easy assembly and disassembly into the carrier chain arrangement.
- Stainless steel or carbon steel panel and structure frame to choose from
- The elevator is supported by legs at each junction of the lower horizontal module
- The elevating sections are fully enclosed with easily removed sections. An access door panel is provided for to enable wiping out or complete removal/reinstallation of the buckets.
- Electrical control



# “Z” Pattern Bucket Elevator Heavy Duty Model

## ➤ Application

Designed and fabricated for heavy duty conveying applications within bulk cereals, minerals, mining, chemicals, fertiliser and related industries where compact installation requirements and harsh conditions may be a feature.

## ➤ Technical Parameters

- Discharge height for outlets may be provided to meet conveying application requirements
- Capacity: Up to 100m<sup>3</sup>/hr
- Fabrication from carbon steel or stainless steel option with carbon steel, stainless steel or plastic buckets to suit product being handled
- Bucket width from 600mm up to 1200mm
- Supplied with infeed metering feeder for controlled material delivery to each bucket
- Drive is via a cyclodrive gear unit and motor with chain and sprocket transmission complete with safety guard
- Fitted with a chain tensioning device having an alarm feature to indicate when adjustments are required
- Available for multi point loading and multi point discharge

## ➤ Features

- Fitted with totally enclosed dust proof enclosure panels
- Fitted with safety interlocks
- Control panel includes electrical safety features for reverse polarity, single phase and motor overload, together with an inching feature to enable the buckets to be run for cleaning where required
- Incorporates positive indexed drive metering feed valve unit for complete bucket filling
- Adopts PLC control and frequency operating speed regulation
- Installation up to 100 meters horizontally and 60 meters vertically according to application requirements

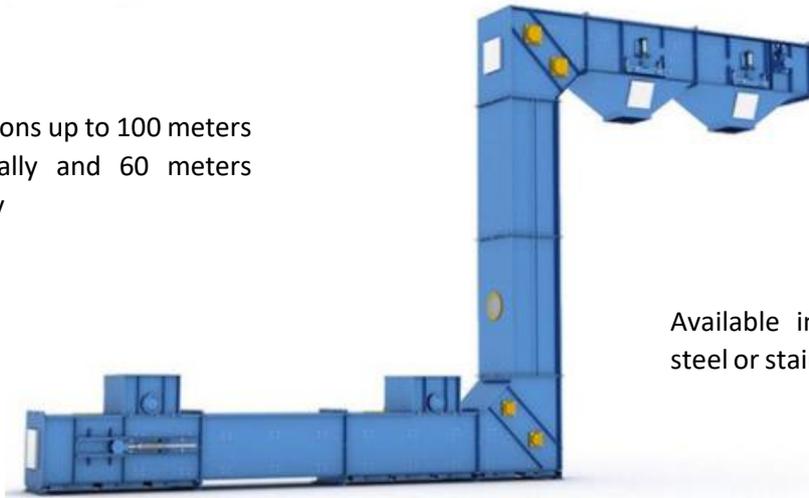


Capacity up to 100m<sup>3</sup>/hr

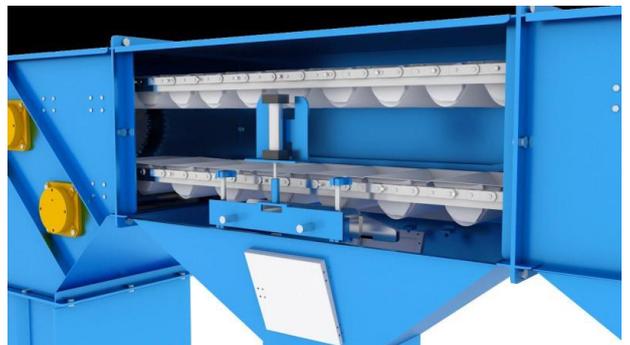


Bucket width from 600mm to 1200mm

Installations up to 100 meters horizontally and 60 meters vertically



Available in painted carbon steel or stainless steel options





Stainless steel and plastic buckets range from 2L to 30L capacity

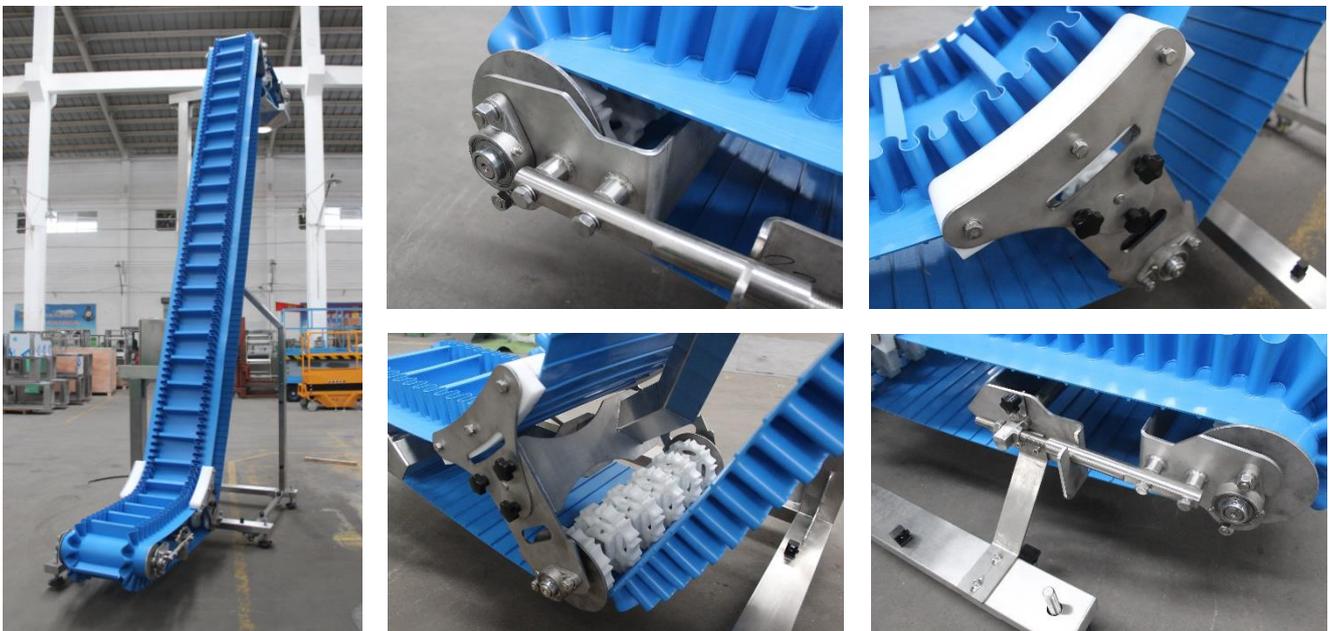
# Inclined Belt Conveyors

## ➤ Application

Designed for conveying requirements where a steep inclination is necessary. The belts are fitted with vulcanised side wall corrugated pleats or ribs at a height for product containment in combination with either straight, inclined or special lipped cleats to provide a containment pocket. Available in a variety of carrying capacities and belt types to suit application specifications.

## ➤ Technical Parameters

- Available with conveyor belt suited to all types of bulk materials including food, feed, grain and seed, minerals, coal, building metal, wood chip, sawdust, etc
- The side wall is hot vulcanized onto the base belt to provide a moulded seal capable of withstanding high stress loads and repeated flexing. The cleats are also hot vulcanized moulded to the belt material.
- Belt materials available include: PP / PVC / PU
- Belt widths available from 500mm through to 2500mm and in thickness of 3mm, 4mm, 5mm, 6mm, 7mm, 8mm and 10mm
- Suited for controlled feed through incorporation of alternative feeding units, i.e. vibro feeder and belt feeder
- Frame and component assemblies fabricated from painted carbon steel or 304 stainless steel
- Provided with positive belt drive arrangement via shaft mounted gear unit directly coupled to the drive pulley



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