

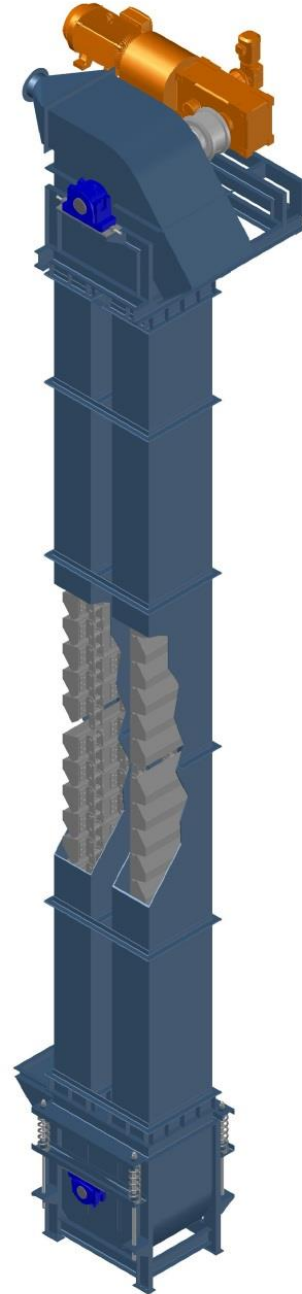
ATEQ | Bucket Elevators

Bucket Elevators are designed to lift powders and bulk solids vertically.

A typical bucket elevator consists of:

- ▶ **buckets** to hold the material
- ▶ a continuous **chain/ belt** to connect the buckets and transmit the forces
- ▶ a **drive** system with motor and drive/ return pulleys
- ▶ miscellaneous items for material feed/ discharge, tensioning and protection

The **ATEQ range of Bucket Elevators** has been developed for continuous operation in a variety of minerals processing and industrial environments.



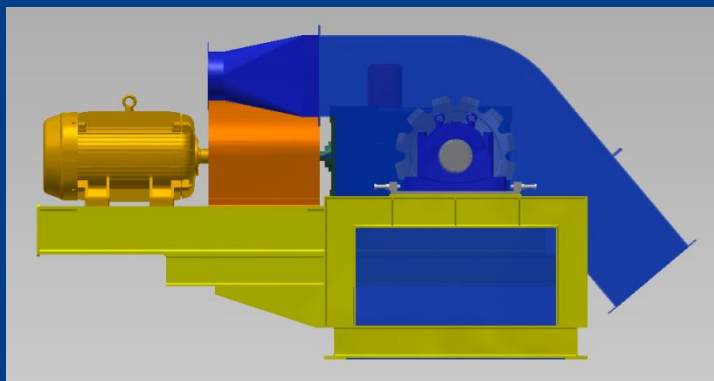
ATEQ Bucket Elevator Features

For harsh environments with charge fluctuations, larger feed particle sizes and higher temperatures, the double chain or central chain design Bucket Elevators are recommended.

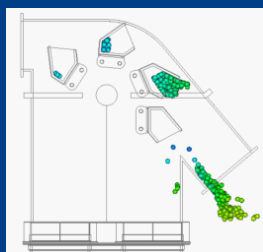
For lighter applications that are required to run quietly, the belt-type Bucket Elevators are suggested. These designs also cater for larger distances, fine materials that are very abrasive, explosive environments and foodstuffs.

ATEQ provides welded steel buckets in a wide variety of shapes and materials for different applications. Buckets are selected for centrifugal or positive discharging of material and can have optional wear lips or hardened surfaces for additional abrasion resistance.

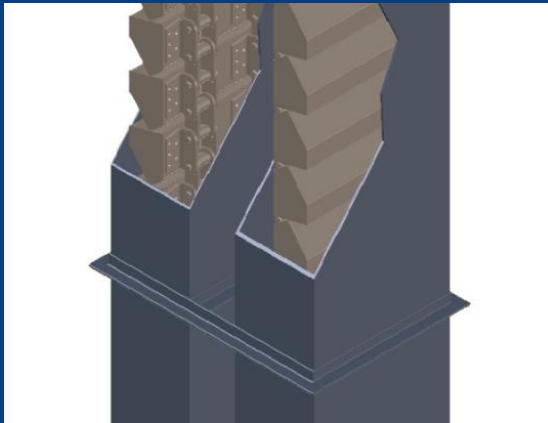
The Head Section assembly is designed for ease of maintenance and contains a fixed head shaft with spherical roller bearings. The supporting structure at the head provides an integrated base plate and footings for the drive system.



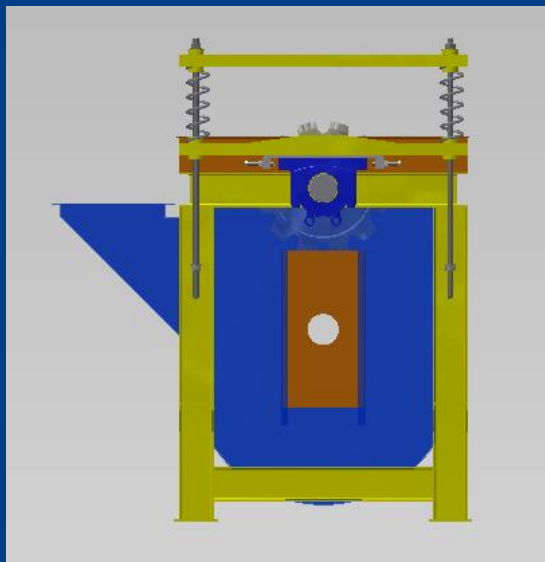
The discharge can be custom engineered for specific applications. Discrete Element Modeling (DEM) is used to optimize material flow through the Feed and Discharge chutes for different material characteristics.



The Casing can be supplied in single or double leg configurations, fabricated from rigid sheet metal in standard sections with flange connections. The casing is self-supporting for typical lengths of bucket elevator. Inspection hatches can be added at regular intervals.



The Boot Section contains threaded take-ups for adjustment of the tension on both sides and large bolted panels for easy access. The shape of the bottom plate ensures self-cleaning during operation.



Illustrative model range and capacities:

MODEL	Width	Speed	Capacity	@SG=1.1	Lump<10%
No.	mm	m/s	m ³ /h	tph	mm
BE3020	300	1.295	57	62	51
BE4020	400	1.295	119	131	51
BE4525	450	1.270	195	215	64
BE6025	600	1.270	269	296	64
BE7030	700	1.270	361	397	76
BE8030	800	1.270	428	471	76
BE9030	900	1.270	481	530	76

ATEQ | Engineered Products

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