

ROBSON

HANDLING TECHNOLOGY

Bucket Elevator Conveyors

The Robson Bucket Elevator is a precise solution to the vertical movement of dry and free flowing bulk materials. The Bucket Elevator is constructed using stainless steel or mild steel buckets attached to a belt or chain. Encased in a steel enclosure the elevated material is protected from the atmosphere, giving the Bucket Elevator the ability to be used internally or externally of buildings.

With each bespoke application, the Robson Bucket Elevator is designed to suit the need of the customer's environment and application.

Robson has designed and built Bucket Elevators for several industries including: Sugar, Grain, Cement, Lime.

The Bucket Elevator is often utilised in **ATEX Zoned** areas, Robson can offer the Bucket Elevator certified to meet the requirements for:

Category 1 for Dust Zones 20 (Internal)

Category 2 for Dust Zones 21

Category 3 for Dust Zones 22

The Bucket Elevator is protected via an array of sensors to detect:

Underspeed.
Belt Alignment.
Drive Overload.

Plus with the options of full explosion suppression or blast panels or combinations of both this gives the Bucket Elevator the versatility and protection to be used in any environment.

The food industry is one of the main customers for the Bucket Elevator, with options including full stainless steel construction, food safe belts, foreign object detectors, metal detectors, samplers and reject chutes. Robson can offer a suitable Bucket Elevator solution to your conveying needs.



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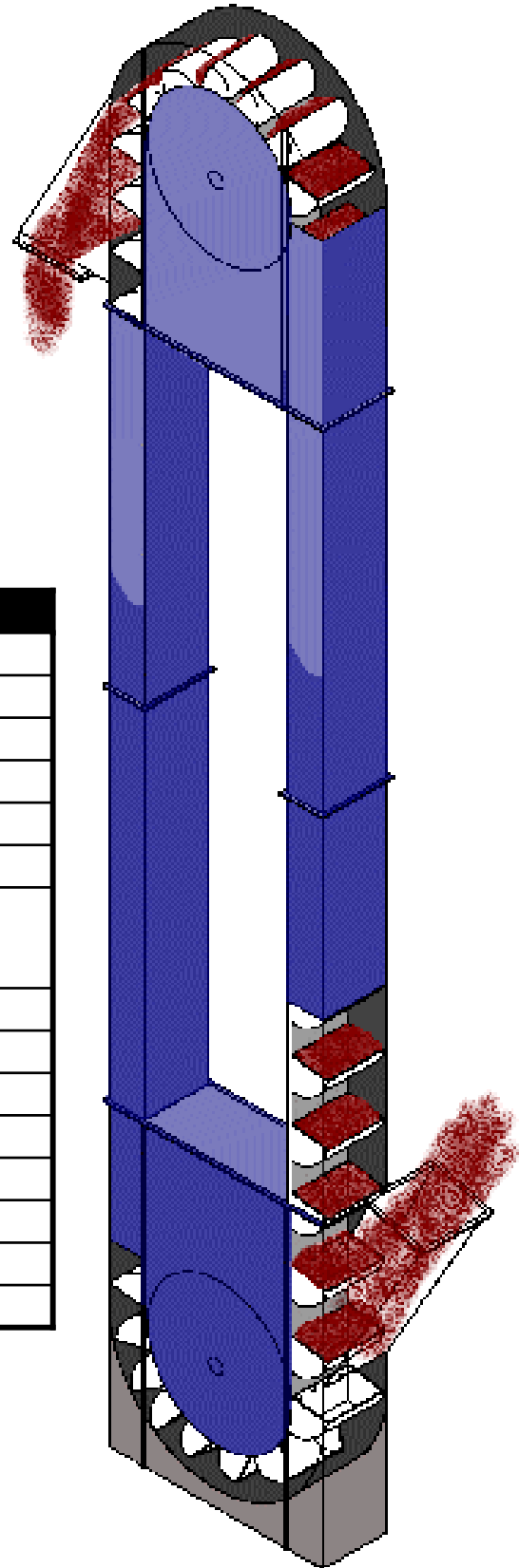
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Registered in England No. 397606



Bucket Elevator Conveyor Specification

Bucket Elevators available for Dust or Gas atmospheres
ATEX Internal Category 1
External Category 2 or 3.



Item	Specification
Size Width	Maximum 1000mm Wide
Size Height	50m+
Capacity	200 - 300TPH
Drive	Shaft Mounted Helical Bevel Geared Motor Unit
Bearings	Plummer Block Bearings - Flange Bearings
Belt Options	Fire Resistant – Food Safe
Bucket Options	Stainless Steel Mild Steel Plastic
In Built Sensors	Speed Switch
Optional Sensors	Blockage Sensor
	Flame Sensor
	Belt Alignment Sensor
Materials	Conveyor Case - Stainless Steel
	Conveyor Support Structure – Galvanised Mild Steel
Explosion Protection	Suppression Units
	Explosion Vent Panels



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