

# ROBSON

## HANDLING TECHNOLOGY

### Airslide Conveyors

The Robson Airslide Belt Conveyor is a development of the traditional belt conveyor, but instead of carrying idlers it employs a cushion of air, being the means of supporting the loaded belt between the feed and the discharge.

The design uses the latest sheet metal fabrication technology with strong but lightweight construction. These sections are generally pre-assembled and delivered to site as head, tail, 3m intermediate, and make-up, casings, all designed to bolt together to form the requisite length of conveyor.

Each casing section is sealed with self-adhesive sealing tape between the joints to ensure continuity of the air plenum without leaks. The loaded Airslide belt is supported on a cushion of air supplied by the longitudinal air plenum.

Air is injected at regular intervals along the "U" shaped bedplate to the underside of the belt, generating a low friction support cushion. A small blower unit supplies the low-pressure filtered air to the plenum, which in most instances is sufficient to supply the total belt length.

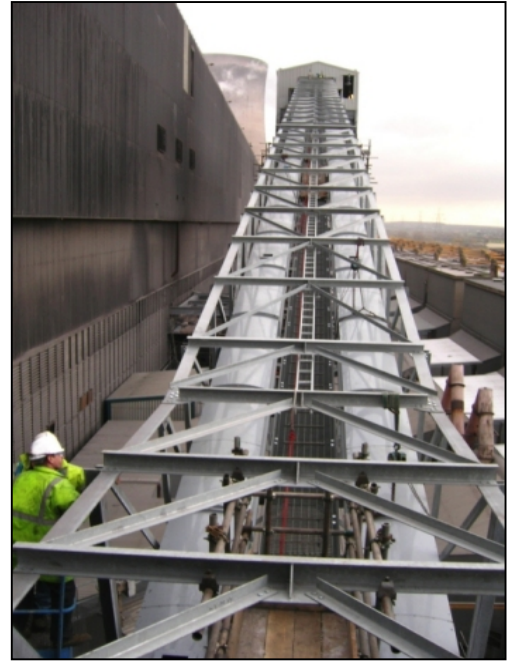
The Airslide Conveyors are often housed in Tubular Gantries. With lengths in excess of 100 metres.

Airslides are available ATEX rated for use in explosive atmospheres and flammable dusts.

Category 1 for Dust Zones 20 (Internal)

Category 2 for Dust Zones 21

Category 3 for Dust Zones 22



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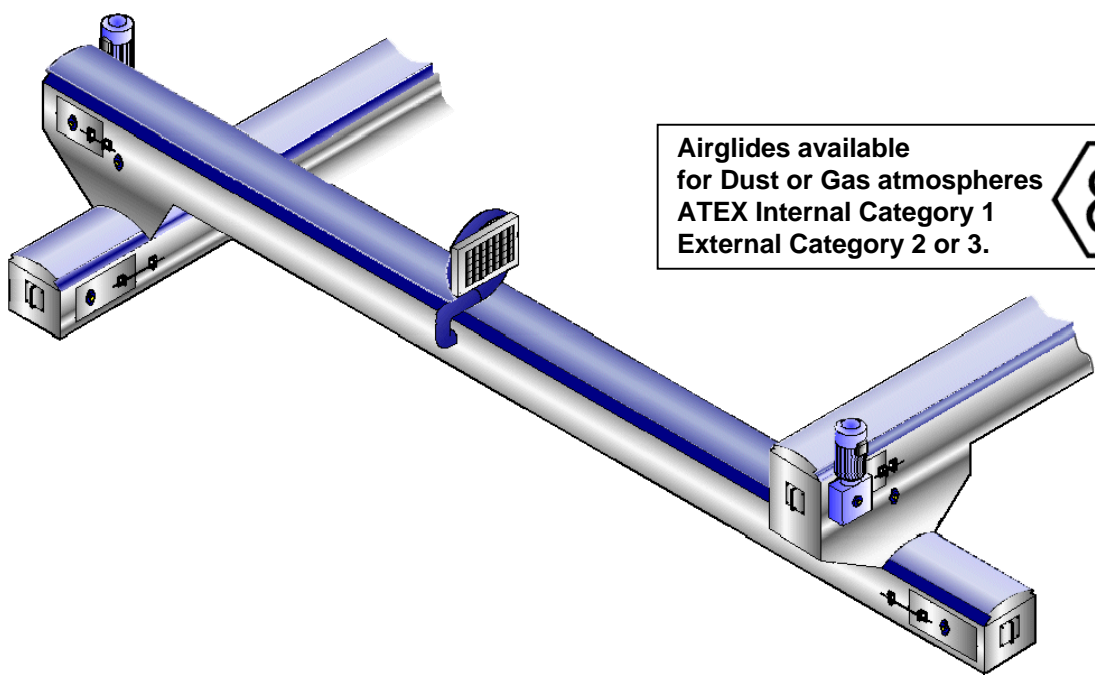
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Registered in England No. 397606



# Airslide Conveyor Specification



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



Item	Specification
Size	600mm - 800mm - 1000mm Wide
Length	Maximum 200m +
Incline	Maximum 20°
Capacity	500 TPH
Drive	Shaft Mounted Helical Bevel Geared Motor Unit
Bearings	Plummer Block Bearings - Flange Bearings
Belt Options	Fire Resistant – Food Safe
Fans	Spark Free Running / ATEX Rated
Tension Unit	<50m Tail Tension Unit >50m Gravity Tension Unit Winch Tension Unit
In Built Sensors	Speed Switch
	Pressure Switch
Optional Sensors	Blockage Sensor
	Flame Sensor
Materials	Conveyor case & internals – Stainless Steel
	Conveyor Support Structure – Galvanised Mild Steel
Explosion Protection	Suppression Units
	Explosion Vent Panels



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