

Pneumatic conveying transfer system

Case Study – Silos, Feeding, Weighing, Pneumatic Conveying

A turnkey system to handle sand, limestone & cork for the manufacture of bituminous boards for construction flooring



Customer:

A worldwide leader in the construction products industry. Their quality building materials have been used in major construction projects around the globe, including the Getty Center in Los Angeles, London's Crossrail project, Hong Kong's Bank of China Tower and the Qatar National Museum in Doha.

Challenge:

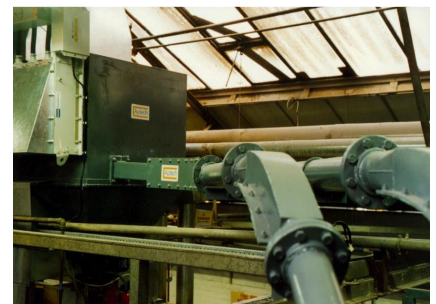
Transfer weighed batches of highly abrasive product from road tankers into mixers.

Solution:

- 1 off 40Te sand silo
- 1 off 40Te lime silo
- 2 off pneumatic conveying systems
- Feeders
- Screens
- Weighers
- Abrasion resistant materials for conveying bends, diverter valves & high wear components

Results:

Product is discharged from road tankers into the silos. Each silo has a screw feeder to transfer the contents via a vibratory 6mm screen to a 350kg weigher. The weighed batch is transferred via a pneumatic conveying system to one of two receivers, each located above a mixer. The system included a cork handling plant comprising a de-baling unit feeding two hoppers, and a weigher and pneumatic conveying transfer to one of the mixers.



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Who we are:

- An **innovative and technically advanced** solutions provider for the materials handling industries, with a portfolio of successful projects gained over 35 years.
- A team of engineers and designers with a strong experience base on both user and supplier side.
- Our solutions are designed, selected and sourced to suit the specific requirements of our customers.
- We have a wealth of knowledge of the behavioural characteristics of a large portfolio of materials from powders to pellets, fibres to flakes, chips to beans and many more.

What we do:

- Design and manage fully integrated specific turnkey packages or partnership projects accurately & cost effectively.
- Integrate proprietary and tailored equipment, bespoke fabrications and automation.
- Whilst specialising in materials handling, we also undertake integration of liquids processing and load handling applications.
- Provide commissioning, start up support & training.
- In-house automation & software capability.

Examples of specialist & bespoke projects. Call or visit our website today for more info



We provide solutions in:

- Pressure & vacuum lean phase pneumatic conveying
- FIBC's, sacks, boxes, tubs, drums, load handling & manipulation
- Turnkey project management & regulatory compliance
- Storage, discharge, weighing & feeding
- In-house testing facilities
- Wet processing, automation & control

Industries served include:

Food & Drink. Pharma. Chemical. Aggregates. Construction. Plastics. Power Generation. Defence.

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