

Aptech face a tight squeeze.

Case Study – Vacuum conveying, Weighing

Food grade delivery for 2 additional ingredients to a brand new product line

Customer:

KP Snacks, a leading UK manufacturer of iconic maize, potato & nut based snacks & brands that millions of people enjoy every day.

"Aptech designed a final solution that is un-complicated & very effective despite the severe space constraints" - Adrian Davies, Project Engineer for KP Snacks

Challenge:

Provide delivery of 2 new ingredients (corn flour & starch powder) to an already congested production line.
Brand new snack product.
Space limitations.
Combustible powders.

Solution:

Two new ingredient vacuum receivers with loss-in-weight feeders to deliver corn flour & starch powder using our existing sack tip plus a new one.
Existing exhausters used for the vacuum pneumatic sending the product through a sieve onto a receiver.
One receiver & feeder assembly requires a large filter & is made wide and stout to fit in 2.4m height with 20mm to spare.
The other stands in the very small space available so is made narrow & tall.
Explosion panels & flame arrestors made to fit.
Level sensors note high & low fill points.

Results:

Effective & accurate delivery despite space limitations.
ATEX compliant & fitted with explosion protection.

Aptech have an on-going relationship with KP Snacks working on various projects past & present.
We are in the process of providing a new storage silo for the above site. This will accept tanker deliveries of potato flake to then discharge, meter, sieve & metal detect before feeding the product into an existing pneumatic conveying system.

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The WIDTH challenge

The HEIGHT challenge



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Who we are:

- An **innovative and technically advanced** solutions provider for the bulk 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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