

Case Study No 18

MOBILE BULK UNLOADING AND CONVEYING FOR SENSITIVE PRODUCT (OAT FLAKES)

Description The Gericke Mobile Pulse-Flow™ conveyor installation unloads bulk trucks containing oat flakes to four different silos. With the mobile flexibility the product can be gently pulsed into any chosen silo with minimal damage to the product. An over flow regulator and silencer was included within this system to give the possibility to reject excess air when required.

Product Oat flakes, (bulk density approx.: 360-380 kg/m³).

Requirements Mobile transport system with low product damage.

Moisture Content% Dry

- Capacity**
- Transport capacity: 7 to 8 T/h.
 - Batch size: bulk truck capacity, approx. 40m³
 - Transport distance: approx. 30 meters, of which 20 meters vertical and 3 bends (depending on silo).

Industry Food. (Solution is suitable for pressure-sensitive granulates, sprayed granules, plastic pellets and non-compressible powders).

Client Producer of breakfast cereals.



Gericke Mobile Pulse-Flow™ Conveyor



Gericke Mobile Pulse-Flow™ Conveyor to silo pipelines

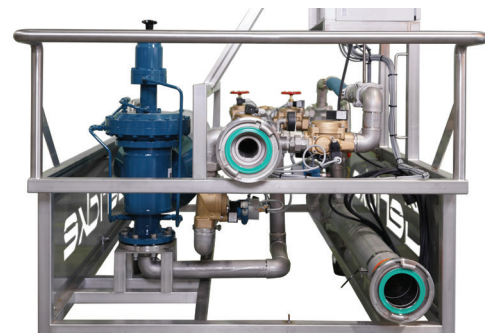
How it works

The Gericke Mobile Pulse-Flow™ Conveyor

The design of the Gericke Mobile Pulse-Flow™ Conveyor, uses the bulk truck as a pressure vessel to force the product into the conveying pipe in a mass flow form. The conveying air enters the conveying pipe at two points in pulses. Depending upon the product, separate or wave plugs are formed, which are moved slowly by the conveying of air in the pipe to the receiving silo.

Advantages of the Gericke Mobile Pulse-Flow™ Conveyor

- Less degradation of product due to lower speed of product in the pipe.
- Mobile flexibility.
- Can be integrated within a current bulk unloading station. This product can be connected to any existing unloading point which contains either a blower or compressed air supply.
- Dust free emptying.



Gericke Mobile Pulse-Flow™ Conveyor

About Gericke

The Swiss Gericke Group has been designing and manufacturing equipment and systems for modern bulk material processes, as well as providing design and consultation services for more than 125 years. Gericke bulk materials processing technology can be found throughout the world in many sectors including the food, chemical, pharmaceutical, plastics and construction material industries.

Gericke's fully owned group companies employ more than 300 experienced professionals and are located in Switzerland, Germany, Great Britain, The Netherlands, Belgium, France, USA, Brazil, Singapore, Indonesia, Malaysia, Thailand and China.