



CLAUDIUS PETERS

FLUIDCON Pneumatic Conveying Technik

We know how

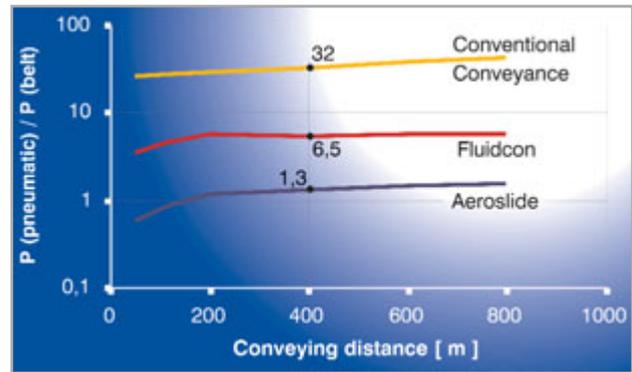
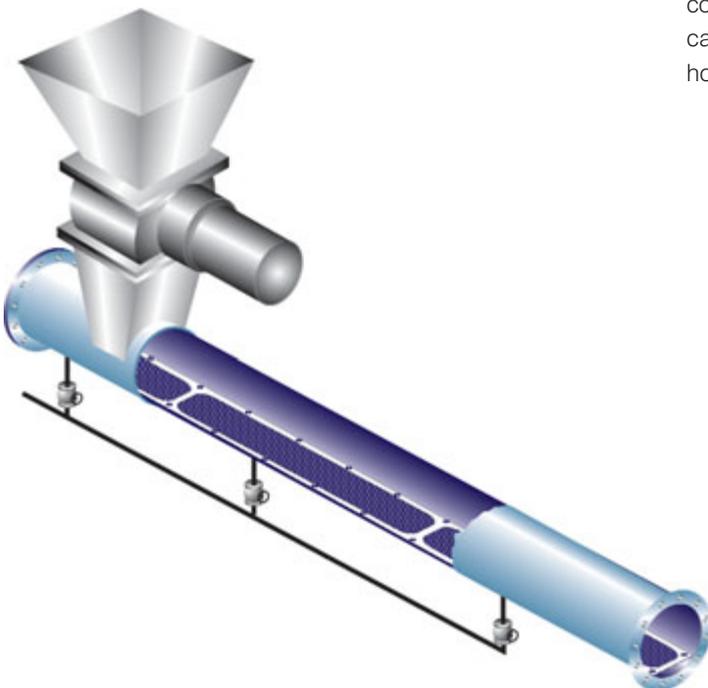
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Claudius Peters FLUIDCON

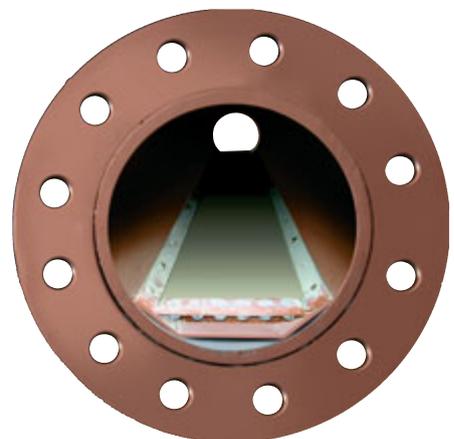
About us

Claudius Peters Projects GmbH, Germany and Claudius Peters Technologies SAS, France are part of the Technologies Division of Claudius Peters Group GmbH, headquartered in Buxtehude, near Hamburg, offering technologies in the field of materials handling and processing and providing turnkey or semi-turnkey systems to a wide range of industries. Claudius Peters Group GmbH is a wholly owned subsidiary of Langley Holdings plc, a privately controlled UK engineering group, with regional offices in the Americas, Europe, China and the Far East.

Pneumatic conveying has always been an acceptable means for transporting fine materials from one location to the other. The initial investment and maintenance costs are typically lower in comparison to mechanical conveying systems. In conventional pneumatic conveying, the energy consumption for the air supply is considerably higher than the power requirements of alternative systems.

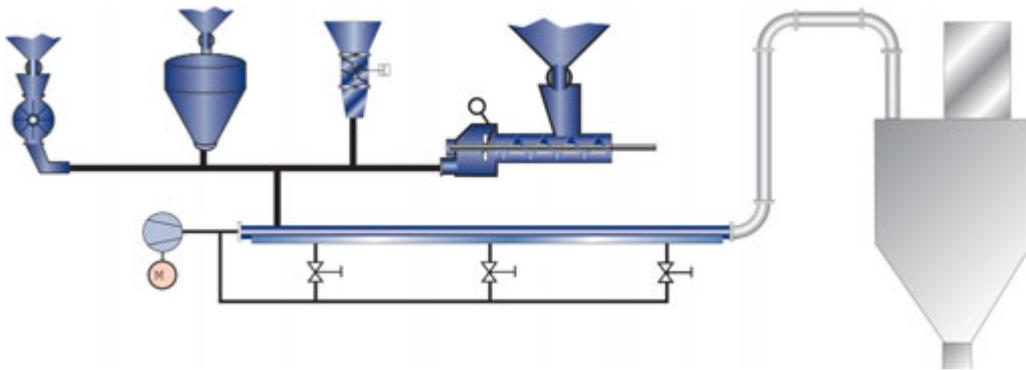


The Claudius Peters FLUIDCON system offers the advantages of pneumatic conveying with considerably lower energy requirement owing to its unique aeroslide transportation principle within the transport pipe. Additionally, it provides a dense phase system with increased bulk material load. Depending on the transport pipe routing, the FLUIDCON system can substantially reduce power consumption, and be used to convey all fine bulk solids which can be fluidized with low air velocities expanding homogeneously during the process.





Is there a better conveying technique?



Advantages of FLUIDCON

- **Reduced operating costs.** Substantially less energy consumption compared to conventional pneumatic conveying
- **High availability.** The system is easily started or restarted even when solids remain in the conveying line
- **Gentle material handling.** This is due to lower conveying velocities starting at approximately 2-3 m/s and ending at approximately 5 - 10m/s
- **Alternative feed systems.** With a reduction in the conveying pressure, Claudius Peters X-pumps (screw pumps) can be installed instead of conventional pressure vessels to ensure savings in height and capital costs

About FLUIDCON

FLUIDCON, is a conveyor pipe that can be partially or completely fluidized over the horizontal length of the pipe (the aeroslide principle). This air is used to fluidize but not transport the material.

The material transport air travels perpendicular to the fluid-ized air (the conveyor pipe principle) and passes in an axial direction. The pressure loss of the transport air flow substitutes for the inclination of an aeroslide. The Aeroslide Principle turns the bulk solids into a fluid state with minimal internal friction and ensures that the solids remain fluidized away from the bottom of the pipe and into the gas flow. These optimum conveying conditions allows the transportation of solids with lowest axial driving gas velocities in the feed point and acceleration section of the pipe.

Therefore, it is possible to convey materials with minimal differential pressure and inclined uphill up to 30° with the FLUIDCON system.



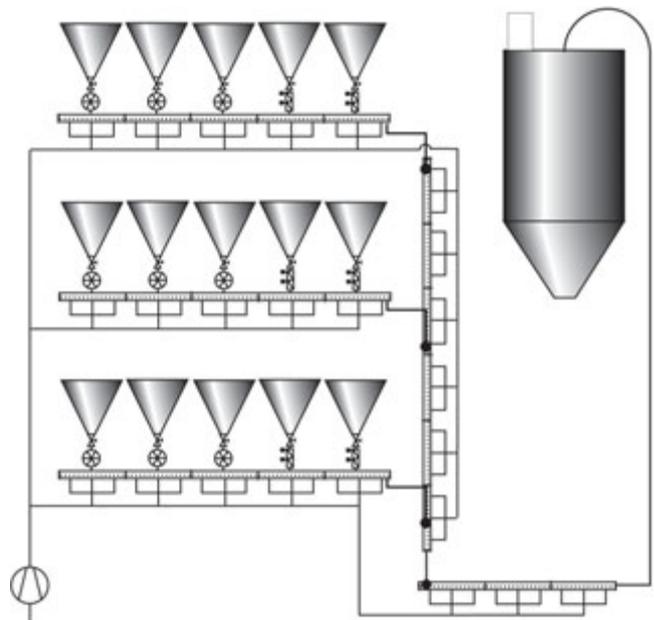
FLUIDCON transport system at Holcom Plant Lägerdorf for 230 t/h cement.



Claudius Peters FLUIDCON System, there is nothing better

The Claudius Peters FLUIDCON System has proven to be a valuable alternative in bulk materials handling applications. Additionally this type of system can be utilized in ash removal plants. This system is particularly suitable for the removal of fly ash from a baghouse or ESP. The fly ash discharge points are connected to a common FLUIDCON conveying pipe and the ash is continuously removed and can be conveyed long distances. The application of the FLUIDCON system for the conveying of dust below filter installations offers the following advantages compared to other conveying installations:

- Lower investment cost
- Lower gas and solids velocities
- Lower conveying pressure
- Reduced wear
- Lower power requirement
- Lower installation height
- Simplified material feeding



CALCINING | COOLING | DISPATCH
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 ERRORS & OMISSIONS EXCEPTED

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