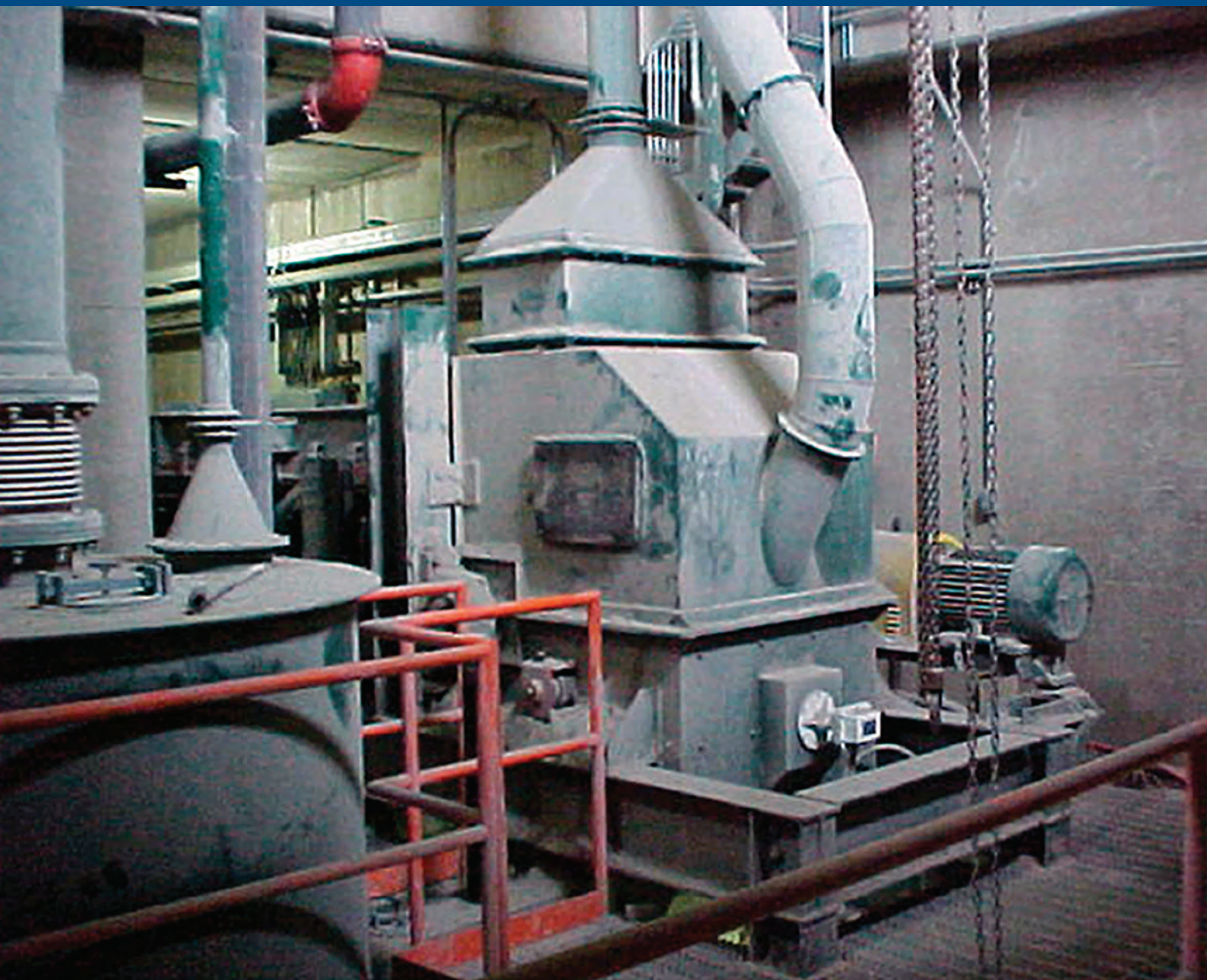


# AIRLIFT™ fluidizing pneumatic elevating systems



**A pneumatic elevator which conveys dry pulverized materials through a vertical pipe to discharge into receivers or bins at a substantially higher elevation.**

# Low maintenance, minimum space

The Airlift™ pneumatic elevating system conveys dry pulverized materials through a vertical pipe to discharge into receivers or bins at a substantially higher elevation. The Airlift system is suitable for materials which can be fluidized by aeration without segregation. Airlift systems are used for the cement, aluminum, copper and chemical industries.

Minimum capacity is several hundred pounds per hour on a continuous basis. Capacities of 800 MTPH and lift heights of up to 113 m (370 ft) have been achieved. Airlift systems are custom engineered for each application - the limits of capacities and lift heights are matters of design.

## Typical materials conveyed

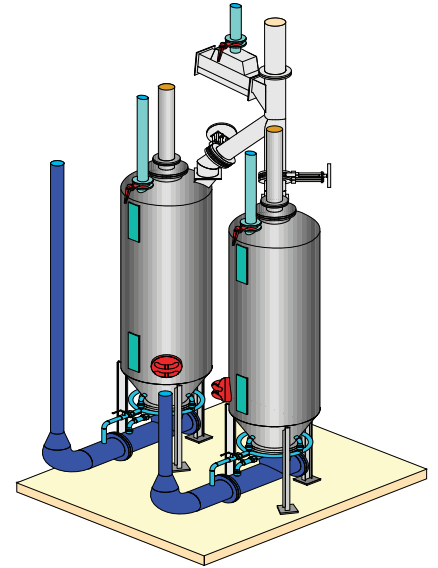
- Cement
- Alumina
- Copper concentrate
- Aluminum hydrate
- Copper flue dust
- Fluid coke
- Catalyst
- Lime
- Phosphate rock dust
- Sand
- Sodium tripolyphosphate
- Chrome dust
- Slag dust
- Oxychloride magnesium

The Airlift system is mostly maintenance free. The only moving part is the source of air supply. The totally enclosed design provides a completely dust-free operation when connected to a dust collection system.

An Airlift system consists of a feed bin, pipe, disengaging bin (alleviator) and one or two air supplies. The aeration air aerates the bottom of the feed bin, fluidizing the material within. The primary air conveys the material upward through the Airlift pipe.

In operation, the Airlift system is self-compensating. As the product feed rate increases or decreases, the fluid level and conveying rate conform to such changes. Therefore, the Airlift system matches the conveying rate to the incoming feed, and compensates for any variations of the feed rate.

- Simple design - no moving parts
  - Low maintenance
  - Minimum spares required
- High capacity range and lift height
  - Large range of application flexibility.
- Variety of materials handled
  - Can be used with any material which can be fluidized without segregation.
- Compact Unit
  - Minimum space requirement.
- Completely closed circuit dust-free system



Airlift™ pneumatic elevating system

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