

Air as an all-rounder for bulk materials Conveying, drying and dedusting with blowers and side channel blowers

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The applications of the bulk solids technology are numerous and in many cases technologically very complex. The real power of air and the possibilities offered by this medium, in this connection are often misunderstood or underestimated.

But the use of air, especially in the areas of drying and conveying of bulk materials and dust removal offers many advantages compared to mechanical solutions. Particularly in the case of bulk material handling, air as conveyor medium can score points in terms of efficiency and costs. Mostly the material is transported indirectly, i.e. it is conveyed contactless and not directly through the blower. In this procedure wear, friction and losses are minimized. In addition, such a conveying is relatively easy to install as no delivery tanks or belts are required but only a conveying duct. For light solids a direct transport through the blower is also possible

Whereas for material conveying the focus is on high pressure or side channel blowers, drying and dedusting rather need high flow rates.

The blower manufacturer Elektror airsystems provides the right solutions for all these requirements within bulk solids technology. Its product range includes both single/double stage side channel blowers and high speed blowers that provide a lot of pressure, as well as low and medium pressure blowers that can move very large volumes of air. For direct transport mostly conveying blowers with special conveyor wheels and revision possibilities are used.

Bulk solids technologies can be found within a wide range of industries and thus under a wide variety of operating conditions. Thus, for example, hygiene plays a very important role in the food industry and in the chemical / pharmaceutical area safety and explosion protection have top priority. Also for these industry-specific tasks, the customer finds numerous customization options in the Elektror portfolio. Within the ranges of the industrial blower manufacturer blowers made of stainless steel, steel or cast aluminum as well as with various coatings can be found. Many of these devices are available in explosion-proof ATEX version.

The Elektror airsystems gmbh from many years now advises, supplies and serves companies from the bulk materials technology. Frequently, application-specific solutions are on duty, which were developed in cooperation with the customers. From 21 - 22 May 2014 the company presents its air technology solutions on the

"Schüttgut 2014" in Dortmund (Messe Westfalenhalle) in Hall 6 at booth R47.

Caption: Blowers and side channel blowers can help making various processes in bulk materials technology more efficient

Author of image: Elektror airsystems gmbh

About Elektror airsystems gmbh

Elektror is one of the worldwide leading producers of radial blowers, centrifugal and axial fans and side channel blowers.

The materials aluminium cast, steel and stainless steel as well as the wide range of performance make the use of Elektror products possible in numerous industrial air engineering processes.

Customized solutions and competent support in this connection are one of Elektror's core competences.

The company sets a trend-link between product innovation, product quality and customer-oriented service. Additionally the corporate philosophy is characterized by an exceptionally strong customer orientation.

Elektror today employs in its headquarters in Ostfildern (Germany), at numerous international sales locations and at the production sites Waghäusel (Germany) and Chorzów (Poland) round about 250 employees.

Due to the extensive number of applications for air Elektror is represented in nearly all industrial branches and in the manufacturing. Main activities are in the following sectors: Extraction, drying technology, food and beverage industries, refrigeration technology, thermal engineering, water technology, environmental engineering, material handling, textile industry, packaging and printing industries.

By precisely matching processes Elektror is able to deliver all standard products within 5 days after receipt of order. Customized devices will be delivered within 15 days. Therewith Elektror sets standards within its industry.