

04.08.2023

Efficiency and reliability in material handling

Application-optimised solutions for pneumatic conveying of bulk materials

Pneumatic conveying processes have a key function in the material flow of many industrial companies and place correspondingly high demands on blower technology. Efficiency, reliability and purity of the conveying air are particularly in focus. As one of the world's leading compressor specialists, AERZEN knows exactly the challenges of pressure and suction conveying and implements energy-saving, safe and smart solutions for the powder, granules and bulk materials industries.

The [pneumatic conveying](#) has established itself as the ideal solution for transporting large quantities of bulk materials - whether for loading and unloading vehicles and ships or for transfer within the production process. High-performance technologies are needed to get materials and products from A to B quickly, gently and with the lowest possible energy consumption. The oil-free compression [Positive displacement blowers](#), [Screw blowers](#), [Screw compressors](#) and [Turbo blowers](#) from AERZEN set standards on the market and solve every transport task - efficiently, safely and smartly.

Energy savings of up to 30 %

With the aid of intelligent control systems, the combination of different technologies and sizes as well as options for heat recovery, AERZEN implements solutions that are equally economical as they are resource-saving and environmentally friendly. The AERZEN screw and turbo blowers in particular are unbeatable in terms of energy and achieve significant energy savings compared to conventional positive displacement blowers. Up to 30 % are possible. AERZEN's application engineers know the industry-specific processes and develop bespoke product concepts that are precisely tailored to the customer's individual application. With its worldwide sales and service network, the compressor specialist ensures short distances to the customer and guarantees fast and reliable on-site support.

Safety is the most essential thing

AERZEN packages provide absolutely oil- and absorption material free air (oil-free operation according to ISO 8573-1, class 0), meet the ISO 22000 standard and the current the current ATEX product directive 2014/34/EU and can be used in highly critical, explosive working environments (e.g. flour dust) without any problems. The robust construction and service-friendly design ensure high machine availability. The use of silencers without absorption material increases process reliability, guarantees the highest compressed air quality and increases energy efficiency through reduced pressure losses. A spark arrester integrated into the silencer further increases safety: it prevents sparks, which could emanate from blowers and compressors in the event of a malfunction, from entering the conveying pipe or the silo. The process air is guaranteed free of contaminations such as oil or abrasion.

Digital solutions for blowers and compressors

As a leading technology developer, AERZEN focuses on the data-driven consideration of the entire life cycle of its machines and provides [bespoke cloud-based digital services](#) which combine over 150 years of experience in mechanical engineering with the latest technology from the information processing and artificial intelligence ranges. The recording of all relevant operating data provides information about the processes involved in the compression process. In this way, malfunctions can be reduced and downtimes minimised. The result: more energy efficiency, process safety, transparency and reliability.

Aerzen Rental: flexible and reliable rental solutions

For temporary air requirements, for interim solutions in an emergency or for planned maintenance work, [Aerzen Rental](#) is on the spot. The international rental service holds the entire AERZEN machine portfolio for vacuum and compressed air applications in pressure ranges from vacuum -650 mbar (g) to 10.5 bar (g). All machines are ready for immediate use thanks to the plug-and-play concept, and a comprehensive portfolio of accessories is also available. On request, the complete rental system can, therefore, also be handed over turnkey - 24 hours a day, 7 days a week, 365 days a year.

Visit AERZEN from 26 to 28 September 2023 at the [POWTECH](#) in hall 4 at stand 4-253.

(4,308 characters incl. blanks)

About AERZEN

Industrial plants all over the world are supplied with gaseous media using AERZEN blowers and compressors. The innovative AERZEN machine technology represents experience gained over more than 150 years of company history. The AERZEN product portfolio includes rotary lobe compressors, positive displacement blowers, turbo blowers and screw compressors and, in addition to standard products, also includes customised special solutions. Digital services can be used to increase efficiency, availability and productivity in a sustainable and future-oriented manner. In addition, the AERZEN After Sales Service offers the full range of services - from full maintenance contracts to repairs and upgrades of existing systems.

Press release



Contact:

Sebastian Meißler

Aerzener Maschinenfabrik GmbH • Reherweg 28 • 31855 Aerzen

Phone: 05154/81-9970 • Fax: 05154/81-709970

sebastian.meissler@aerzen.com • www.aerzen.com

Press Office:

Köhler + Partner GmbH

Brauerstraße 42 • 21244 Buchholz i.d.N.

Phone +49 4181 92892-0 • Fax +49 4181 92892-55

E-mail: info@koehler-partner.de • www.koehler-partner.de