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## **AERZEN at Hanover Fair 2023**

Bespoke, efficient and smart solutions for the compressed air, process gas and vacuum technology

**Just as people need air to breathe, many industrial processes also depend on a reliable supply of process air - be it transporting, ventilating, cooling, mixing, drying or packaging. High-performance blowers and compressors are, thus, indispensable in many areas of application. Current trend topics such as energy efficiency, digitalisation, hydrogen compression and individual special solutions are increasingly in focus. At Hanover Fair, AERZEN - pioneer, innovation driver and technology leader in the field of compressed air technology - will show how the balancing act between optimum performance and maximum economic efficiency can be achieved.**

AERZEN machines are used wherever air and gases are conveyed or compressed. The high-performance packages stand for optimum performance, maximum energy efficiency, minimum life-cycle costs and absolute process reliability and are among the most innovative on the market. Visitors to the Hanover Fair can also get an idea of this. Under the motto "Customised, efficient and smart solutions for compressed air, process gas and vacuum technology", the compressor specialist will be presenting its solutions (portfolio) for process technology in the capital of Lower Saxony from 17 to 21 April 2023.

### **Wide range of trend-setting blower and compressor solutions**

The highly efficient series among the exhibits [Delta Screw \(screw compressors\)](#) and [Delta Hybrid \(screw blowers\)](#), [oil-injected screw compressor stages](#) for stationary or mobile compressed air compressors, [vacuum blowers](#) and water-injected screw compressor stages for efficient and safe compression of hydrogen. An example of customised engineering are the [two-stage screw compressors of the 2C series](#). Due to the seamless overlap of the performance ranges within the 2C series, these compressed air packages can be adapted highly flexibly to application-specific requirements such as volume flows and pressure ranges in order to achieve the best possible machine utilisation for maximum economic operation. For the water-cooled version, heat recovery via heat exchanger can be implemented as an option. This opens up further energy efficiency potential.

### **AERprogress Digital services for process optimisation**

Representative for the [digital transformation of blower technology](#) is the innovative IIoT platform AERprogress. AERprogress uses existing machine and sensor data of the plant and enables statements to be made about failure probabilities, operational states, trends and optimisation possibilities. Costly sensor technology on the process air packages can be

dispensed with. AERprogress is scalable and available for different application scenarios such as energy efficiency optimisation, live monitoring or predictive maintenance.

## **Aerzen Rental machines to rent with all-round carefree package**

If there is a temporary need for air, or if it has to be done quickly, Aerzen Rental is on the spot. Aerzen Rental offers [Complete solutions for short- and medium-term rentals](#). All machines are ready for immediate use thanks to the plug-and-play concept. In addition, an extensive accessories portfolio consisting of power distributors, cables, piping, coolers, dryers and condensate separators and much more is 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.

## **Hydrogen compression with screw compressors**

Another focus of the fair is hydrogen compression. AERZEN has been working on this topic for decades and offers a wide range of trend-setting compressor stages, including both oil-free and oil-flooded versions. The [screw compressors](#) achieve top marks in the areas of efficiency, installation space, economy and process reliability and have proven themselves successfully in numerous applications. In particular, their insensitivity to fluctuating operating conditions and their design-related internal compression without free mass forces make screw compressors flexible endurance runners with the lowest maintenance intensity and comparatively low operating costs in full and partial load operation.

You will find AERZEN at the Hanover Fair 2023 in hall 4 at stand D41 (main stand) as well as in hall 013 at stand D51/1 (focus on hydrogen compression).

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## **About AERZEN**

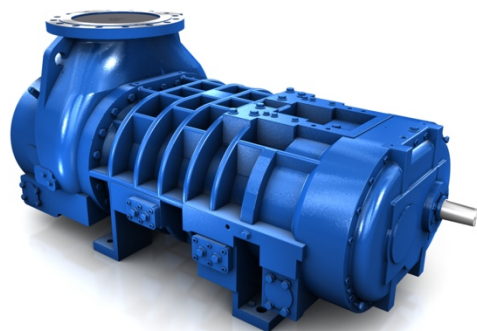
Industrial plants all over the world are provided with gaseous media using AERZEN blowers and compressors. The innovative AERZEN machine technology represents experience gained over more than 150 years of company history. The AERZEN product portfolio includes rotary lobe compressors, positive displacement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

**Image overview:**



**AERZEN Delta Hybrid** The latest generation of AERZEN Delta Hybrid rotary lobe compressors enables energy savings of up to 30% compared to a conventional positive displacement blower

*Image: AERZEN*



**AERZEN screw compressor stage water-injected** Water-injected screw compressor stage for hydrogen compression Highest differential pressures with incredible energy efficiency

*Image: AERZEN*



# ***Press information***



**AERZEN screw compressor-2C:** The 2C series two-stage screw compressor conveys oil-free compressed air from 4 to 11.5 bar (g) and offers high flexibility for customisation

*Image: AERZEN*

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