

AERZEN PRODUCT OVERVIEW

Positive displacement blowers, screw compressors, rotary lobe compressors and turbo blowers

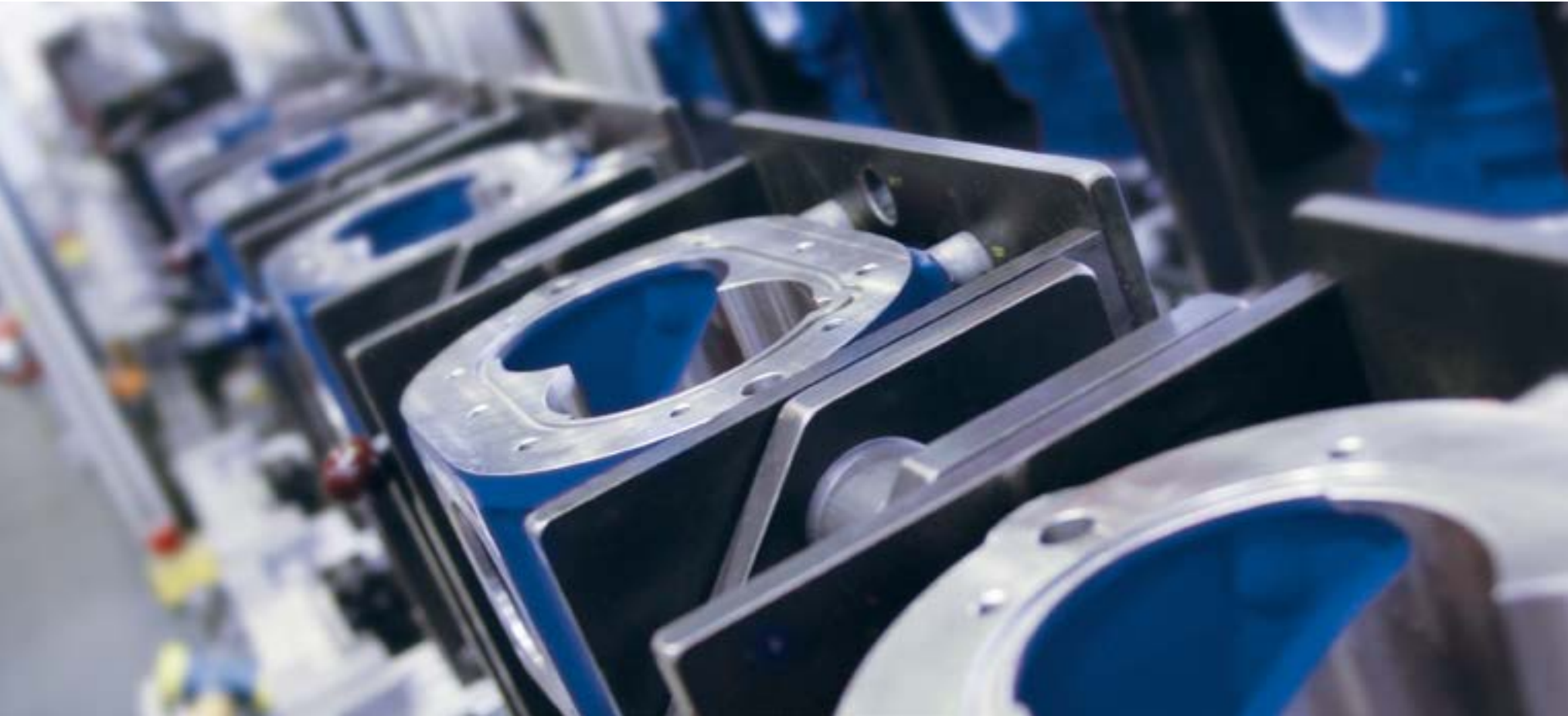


AERZEN



AERZEN

EXPECT THE WORLD. PREMIUM TECHNOLOGIES FROM AERZEN.



Expect Performance.

AERZEN's history is the history of compressor technology. In 1868, we manufactured Europe's first positive displacement blower; in 1911, the first turbo blower; in 1943, the first screw compressor; and, in 2010, the world's first rotary lobe compressor. And today? Today our craft lies in designing these machines to be as efficient as possible – and adapting them to the hundreds of applications that our customers require of us.

What has stayed the same? Even today, in our fourth generation, we have retained our character as a mid-sized family-owned company. That is what inspires our innovation and drive to develop products that enable our customers to get ahead in the global marketplace. Expect a lot. Expect performance!

Classic AERZEN.

What characterises premium technologies today? Is it high performance and service throughout the world? Of course. Energy efficiency? Nowadays this is also a matter of course. At AERZEN, we like to think there is even more to it. Greater creativity, for example, as demonstrated by our countless nationally and internationally awarded patents.

At AERZEN, this creativity is also on display in the less showy aspects of our machines: in their highly compact build; their simple plug & play design; in their exceptionally user-friendly operating concept. Then again, you might take as an example the unusually long intervals our machines can operate between oil changes and servicing – the emphasis here being on quality. Unconditional reliability, an extremely long service life, and ground-breaking energy efficiency – classic AERZEN.

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THE BEST OF BOTH WORLDS.

ROTARY LOBE COMPRESSOR

DELTA HYBRID.

One of the most innovative solutions in compressor technology today, and far and away one of the most efficient machines in the vast 25 to 100% control range. Delta Hybrid has long been the only assembly in the world to bring together the capabilities of blower and compressor technology into one single system, opening up new possibilities for creating positive and negative pressure and savings of up to 15%.



With seven patents or patent applications pending, Delta Hybrid is one of the most innovative solutions in modern compressor technology, and far and away one of the most efficient machines in the vast 25 to 100% control range.

Two profiles. One assembly.

AERZEN's latest generation technology introduces a new principle to compression, namely the successful synthesis of positive displacement blower and screw compressor technology in one assembly. The innovative Delta Hybrid rotary lobe compressor uses two different rotor profiles. A 3+3 blower profile right-sized for low pressure differentials of up to 800 mbar, and a 3+4 compressor profile designed for higher pressures of up to 1,500 mbar. This enables the Delta Hybrid to close the gap in the existing range of machines. It also offers a performance range that will meet the most diverse process requirements, with energy savings of up to 15% compared to standard compressors.

Higher temperatures. Improved safety.

The Delta Hybrid rotary lobe compressors can be used for an extremely wide range of key industrial applications. Economic as a stand-alone and highly efficient in compound machines, the assembly can be used just about anywhere, including areas with very high ambient temperatures, or for applications with extreme intake temperatures. Today, the Delta Hybrid enables final temperatures of 160°C to 230°C; a vital prerequisite for high levels of operational safety in all processes.



Delta Hybrid package S/L/H

Highly economical rotary lobe compressor package with belt drive. Extended pressure range. Classified oil-free to class 0. Silencer free of absorption material, low sound pressure levels. Reduced maintenance costs and lower energy consumption for a sustainable low TCO. Extremely reliable and durable.

- Volume flow: 110 to 9,000 m³/h
- Pos. pressure: 1,500 mbar (g)
- Medium: air and neutral gases



Delta Hybrid rotary lobe compressor stage S/L/H/E

Highly economical rotary lobe compressor stage for belt drive. Reduced maintenance costs and lower energy consumption for a sustainable low TCO. Extremely reliable and durable. Extended pressure ranges.

- Volume flow: 110 to 9,000 m³/h
- Neg. pressure: -700 mbar/ pos. pressure: 1,500 mbar (g)
- Medium: air and neutral gases



Delta Hybrid negative pressure package E

Highly economical rotary lobe compressor package with belt drive and internal compression of up to 70% vacuum. Classified oil-free to class 0. Silencer free of absorption material, low sound pressure levels. Reduced maintenance costs and lower energy consumption for a sustainably low TCO.

- Volume flow: 110 to 9,000 m³/h
- Negative pressure: -700 mbar
- Medium: air and neutral gases



Delta Hybrid rotary lobe compressor stage D98V

Rotary lobe compressor stage with pre-inlet and internal compression. Reaches a vacuum of up to 95% in negative pressure operation. Classified oil-free to class 0. Silencer free of absorption material, low sound pressure levels. Reduced maintenance costs and lower energy consumption for a sustainably low TCO.

- Volume flow: up to 5,400 m³/h
- Neg. pressure: -950 mbar pos. pressure: 1,500 mbar (g)
- Medium: air and neutral gases

COUNTLESS PROCESSES. NO COMPROMISE. FIELDS OF APPLICATION.

AERZEN offers its customers compressor technology that has been perfectly designed right down to the last detail. It is not a stretch to say that we have something for every application, for every region on our planet. We give you our word. Because if it is not already included within our wide range of standard models, modifications and accessories available to date, then we will build it for you, as a special solution.

Compression under any conditions.

Compressed gases are used in every possible condition imaginable – accordingly our technologies are suitable for use in every condition imaginable. Whatever the model or specification, whether indoor or out, onshore or offshore, stand-alone or as part of a compound system, they work in any ATEX zone or temperature zone in the world – even under the most extreme conditions. As reliable at +60°C as they are at -40°C. As safe in lulls as in wind speeds of up to 150 km/h; in the desert, the Arctic and in earthquake zones; and for any other static or mobile application. Any exceptions? None to date. Why not give us a challenge?

Understanding applications.

Only compressor technology that is precisely tailored to the application is truly economical. You might call it right-sized. To achieve that you have to know the processes – something that we pride ourselves on at AERZEN. That alone makes it important to us to maintain close contact with our customers, and explains why it is so important to us that we fully understand your applications in detail. Our exceptional history helps us in that respect: over the past 150 years we have configured machines according to every possible specification, dealing with hundreds of thousands of projects of every possible size across every continent. This wealth of experience makes us a unique and valuable consultant for any questions regarding potential applications.

Sectors

- Chemical and petrochemical
- Cement industry
- Foodstuffs and luxury food industry
- Power plant technology
- Glass industry
- Paper industry
- Plastics industry
- Steel and iron industry
- Textiles industry
- Pharmaceutical and cosmetics industry
- Medical technology
- Mining and metallurgy
- Electronics industry, solar power
- Municipal or industrially operated waste water treatment plants
- Oil and gas industry
- Biogas industry
- Energy suppliers

and more



ANYTHING BUT ORDINARY. THE WORLD OF AERZEN SERVICES.

AERZEN machines are legendary for their durability. Why is service necessary at all, then? For us, it's about more than availability and original OEM parts. AERZEN services safeguard your investments and productivity, and ensure that you stay ahead of the competition. From anywhere on earth.

Benefit from AERZEN's OEM competence, anytime, anywhere



AERZEN on-site service.

Our service teams work wherever our machines are, anywhere in the world, onshore or offshore, and frequently under extreme conditions. How do we manage? Because we are never far away. AERZEN has developed a wide network of service support centres and decentralised parts depots around the globe. At these centres, you will find over 200 well-trained service technicians ready to help, whenever and wherever you need them.

Equipment rental and other services.

The AERZEN service world has plenty to offer to its customers. For example, we offer custom designed service kits, including replacement stages, machine diagnosis, acoustic optimisation. One of our most important services is the AERZEN Rental Division, which has a large stock of rental machines: AERZEN blowers, turbos and compressors in a wide range of performance classes, for all standard pressure ranges, for immediate use and delivered on request – turnkey ready. What does that mean for our customers? Even in the event of an unanticipated need, you will be well equipped.

Contact worldwide

AERZEN's team of 2,000 employees is active on every continent. With six sales offices in Germany alone, we are always nearby. And with 50 subsidiary companies spread across 100 different countries, we are never far away should you need us. Call us at:

+49 5154 81-0

Service Hotline Germany

Our German service centre is available for customers, applications and the maritime industry in Germany. We look forward to your call:

0700 49318551

Customer Net

Looking to learn more about our company and about AERZEN's industry-leading compressor technology? It's easy: just visit our Customer Net or our home page. Everything you need to know in one location:

www.aerzen.com



AERZEN. Compression - the key to our success.

AERZEN was founded in 1864 as Aerzener Maschinenfabrik. In 1868, we built Europe's first positive displacement blower. The first turbo blowers followed in 1911, the first screw compressors in 1943, and in 2010 the world's first rotary lobe compressor package. Innovations "made by AERZEN" keep driving forward the development of compressor technology. Today, AERZEN is among the world's longest established and most significant manufacturers of positive displacement blowers, rotary lobe compressors, screw compressors and turbo blowers. AERZEN is among the undisputed market leaders in many areas of application.

At our 50 subsidiaries around the world, over 2,500 experienced employees are working hard to shape the future of compression technology. Their technological expertise, our international network of experts, and the constant feedback we get from our customers provide the basis for our success. AERZEN products and services set the standard in terms of reliability, stability of value and efficiency. Go ahead - challenge us!

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