

AERZEN PRODUCT OVERVIEW

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



AERZEN

EXPECT A LOT. PREMIUM TECHNOLOGIES FROM AERZEN.



Expect Performance.

The story of AERZEN? It is the story of compressor technology. In 1868, we built Europe's first positive displacement blower. In 1911, we built the first turbo blowers in the world. Then, in 1943, the first screw-type compressors, and in 2010, the first rotary lobe compressor worldwide. And today? Today, it is our task to design these machines to work as efficiently as possible - and to adapt them to the hundreds of applications our customers bring to us. And what remains of our tradition? We have preserved the character of a medium-sized family company into the fourth generation. This gives us our drive for innovation. We strive to develop products that strengthen our customers' global businesses. Expect a lot. Expect Performance!

Typical for AERZEN.

What distinguishes modern premium technologies? Performance and worldwide service? Sure. Energy efficiency? Nowadays, this goes without saying. However, we at AERZEN believe there is more to it than that. More innovative ideas, for example. These are evident in many national and international patents. But at AERZEN, these can also be found in more discreet aspects of our machines. In our particularly compact designs. In our simple Plug&Play principle. In our fantastic, user-friendly operating concepts. Or our especially long oil-change and maintenance intervals. This brings us back to the topic of quality. The unconditional reliability, the extremely long service life of our technology paired with ground-breaking energy efficiency - all of this is typical for AERZEN.

SCREW COMPRESSORS. THE UNIVERSAL GENIUSES.

Unrivalled versatility. These two words sum up what distinguishes the screw compressors made by AERZEN. The largest variety of types. The most modification possibilities. The widest range of accessories. And much more. First and foremost, the development expertise of a world market leader that has been constantly innovating, optimising and completing its successful compressors since 1943.

Unlocking potential.

Screw compressors are machines designed with a pair of screw rotors. They work according to the positive displacement principle with internal compression and, like blowers, are so-called forced feeders. What makes AERZEN screw compressors special is this: we have made reliability, ease of maintenance, ease of operation, flexibility and energy efficiency our principles. The result is a multitude of unique design details. Take the efficiency factors. For example, the 3+4 VML profiles or the 4+6 VM profiles from AERZEN. They provide significant energy savings compared to conventional compressors. And the ultimate in compressor technology? These are the new E-Compressors from AERZEN. With an increase in efficiency of around 6%, they release additional important potential.

Show versatility.

Leading packagers and industrial users have relied on AERZEN compressor stages and packages for decades. Why? Because these machines with their exceptional versatility are the ideal solutions everywhere.

Originally designed for the compression of air, nitrogen and neutral gases, the universal geniuses also develop their great strength with special gases, in vacuum operation or in elevated intake pressure applications. With direct drive or belt drive, dry-running and oil-free according to class 0 or with oil injection. Let us put it this way: AERZEN has the suitable compressor for everything.



SPECIAL ROTOR PROFILES CHARACTERISE THE SCREW COMPRESSORS MADE BY AERZEN. AND ENSURE THE DECISIVE PERFORMANCE PLUS IN NEGATIVE AND POSITIVE PRESSURE.

OIL-FREE AND OIL-INJECTED SCREW COMPRESSORS

There are effectively no limits to potential applications for AERZEN screw compressors. They can serve to create pressure for the pneumatic transport of powders, bulk goods or ash. They aerate sewage tanks, keep lakes and harbours clear of ice, supply oxidising air for power plants or start jets for aircraft turbines.



Compressor stage VM/VML ...

Universal compressor stage with belt drive. Oil-free according to class 0, very energy-efficient and compact. High type diversity in 7 sizes.



Volume flows:
120 to 2,650 m³/h



Negative pressure:
-850 mbar (g)
Overpressure
3,500 mbar (g)



Conveying media:
Air as well as neutral,
toxic, combustible,
explosive, corrosive gases
or mixed gases.



Delta Screw compressor package with belt drive

High-efficiency compressor package (single-stage) with belt drive. Optionally with pre-inlet version for high negative pressure up to -850 mbar. Also suitable for suction/pressure operation. Oil-free as per class 0 Extremely resilient, durable and low-maintenance.



Volume flows:
120 to 2,650 m³/h



Negative pressure:
-850 mbar (g)
Overpressure
3,500 mbar (g)



Conveying media:
Air as well as neutral,
toxic, combustible,
explosive, corrosive gases
or mixed gases.



Delta Screw compressor package with direct drive

High-efficiency compressor package (E-Compressor, single-stage) with direct drive. Low maintenance requirements. Extremely resilient and flexibly adaptable to a wide range of applications.



Volume flows:
350 to 15,000m³/h



Negative pressure:
-850 mbar (g)
Overpressure
3,500 mbar (g)



Conveying media:
Air as well as neutral,
toxic, combustible,
explosive, corrosive gases
or mixed gases.



Compressed air screw compressor - double-stage, oil-free

Compressor package (double-stage) with direct drive in air- or water-cooled design. Customised solution for special applications, modification according to customer specifications. 11 sizes available.



Volume flow:
166 to 9,300 m³/h



Overpressure:
4 - 11.5 bar (g)



Conveying media:
Air, neutral gases,
special gases,
inert gases



Compressed air stage VMX with oil injection

Versatile overpressure stage (single-stage) for system manufacture. Belt-driven, directly coupled or with integrated gearbox. Very energy-efficient, robust, durable and low-maintenance. Available in 10 performance levels up to max. 355 kW.



Volume flows:
69 to 3,180 m³/h



Overpressure
13 bar (g)



Conveying media:
Air and neutral gases

INCREASING VERSATILITY. PROFITABILITY STARTS WHEN COMPRESSOR SYSTEMS ARE TAILORED TO THE PROCESS.