

# AERZEN RENTAL

## 100% OIL FREE SOLUTIONS



**AERZEN**

# RENT A SOLUTION, EXPECT PERFORMANCE.

**Aerzen Rental is a subsidiary of Aerzener Maschinenfabrik GmbH, one of the world's leading producers of oil-free air and neutral gas displacement blowers with more than 150 years of experience. Aerzen Rental has an extensive and comprehensive rental product range consisting of machines and accessories that allows us to offer complete solutions for any industry. In the event of an emergency we supply our products from our European depots 24/7 throughout the year.**

**We are application specialists and understand your application.**

We know that your production process must perform to the highest possible standards. When you choose Aerzen Rental you are choosing a specialist with a great deal of knowledge of applications involving pressures ranging from -700 to 10 barg. Our rental machines and accessories are specifically geared to different applications and are designed to provide the right pressure and capacity for optimal integration into your production process.

Our knowledge covers applications such as:

- water treatment,
- pneumatic conveying,
- closed loop systems,
- burner optimisation,
- R&D
- tunnel breathing air
- and much more

We look forward to support you in achieving an appropriate solution. If necessary, we will modify our machines to fit in your processes.

**Complete Solutions**

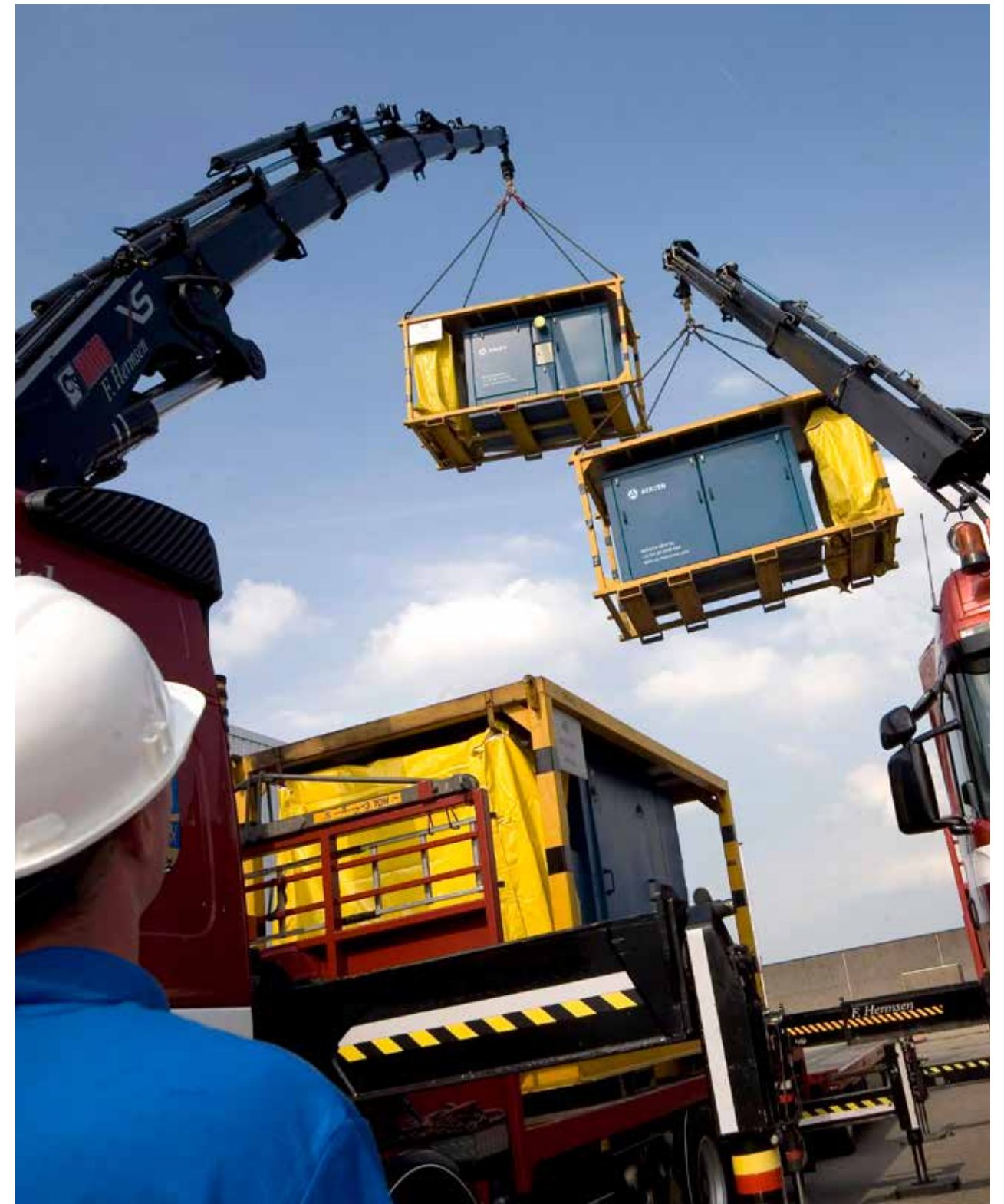
We are the right partner who can help you implement complete solutions by using rental machines with accessories, such as power supply (transformers/diesel generators), distributors, cabling, piping, coolers, dryers, water separators and more. If required, we can supply turnkey solutions.

**Local Depots**

Aerzen Rental maintains depots at strategic locations spread out across Europe and North America (USA). This means that our rental solutions are always close by together with our people to support you where necessary.

## The benefits of choosing Aerzen Rental

- ✓ 24/7 service and delivery, when and where you need it
- ✓ Production process support by application specialists
- ✓ Broad product range of rental products. Ranging from -650 mbar vacuum to 10 barg overpressure
- ✓ Large fleet of 100% oil-free air units
- ✓ Depots distributed across Europe and North America (USA)
- ✓ Specialists in custom-made solutions
- ✓ Premium - blower, compressor and turbo technologies by AERZEN
- ✓ Cost efficient, the right solution with the right pressure
- ✓ Wide range of equipment, from vacuum to plant-air



*Short reaction times and solutions that keeps your process going while having predictable costs.*



# ENERGY-EFFICIENT SOLUTIONS FOR YOUR LOW-PRESSURE APPLICATIONS.

All the Aerzen Rental machines are suitable for outdoor installation and are equipped with a power and control cabinet. Our rental solutions are the most energy efficient available, because we offer six different pressure settings (compression ratios). We use frequency converters to regulate, which enables to achieve the right pressure and volume flow. By achieving exactly the same as your machines on site, the rental solution has the same energy consumption and do not requires extra power. Furthermore we are able to replace any machine brand and type!



Micro biology was threatened to die. Aerzen rental delivered a complete temporary aeration unit installed within 48 hours.

## Blower units and vacuumpumps.

**Power range from -700 to 1350 mbar (g).**

These rental machines differentiate themselves in the market through their extremely high energy efficiency, low noise emission and a standard ATEX-certified spark suppressor in the outlet.

Optional extensions:

When used for surface waterway, lakes, drinking and wastewater aeration, these rental machines are often combined with aeration plates and diffusers together with accessories to provide a complete and independently operating waste water treatment system.

## Typical fields of application:

- Pneumatic conveying of bulk materials
- Aeration of surface, drinking and waste water
- Oxidation and combustion processes
- Transport of neutral gases
- Compressed air supply in tunnel construction and micro-tunnelling

## Turbo blower on a trailer.

**Flexibility for pressure increases up to 700 mbar (g).**

Turbo blowers are the most energy efficient air displacement solutions available. This means that you can maintain or expand your wastewater treatment process with a minimal power supply. We offer a flexible solution through turbo blowers installed on trailers. These trailers can be transported to any desired location using a passenger car.

Optional extensions:

The compact turbo rental machines can be fitted with aeration plates and other accessories (e.g. oxygen measurement). Turnkey complete solutions for highly efficient applications such as in aeration tanks of municipal or industrial wastewater treatment plants.

## Typical fields of application:

- Injection of oxygen into wastewater technology
- Fermentation in yeast production
- Oxidising air for e.g. cement production



## Advantages:

- Compact unit designed for outdoor use
- Low noise level
- Solid frame construction
- Integrated power and control cabinet
- All safeties are integrated in the control cabinet



## Advantages

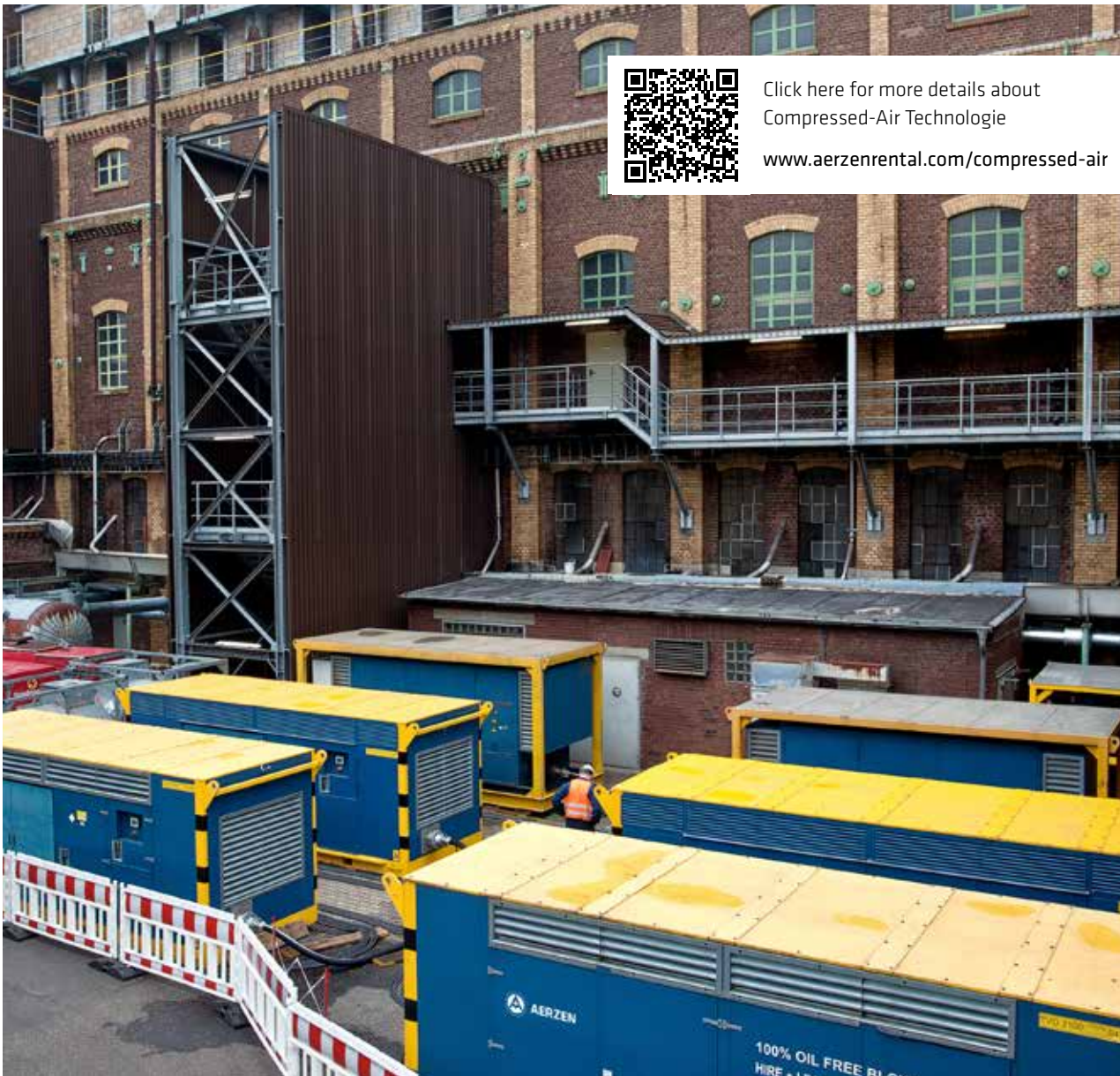
- Up to 10% increase in energy efficiency compared to conventional turbo technologies
- Extremely compact and light solution
- Highest reliability even under extreme operating conditions
- 100% oil-free
- Extended fields of application at ambient temperatures up to 50°C.



# THE ALL-ROUND GENIUSES.

## RENTAL UNITS FOR YOUR COMPRESSED AIR APPLICATIONS.

To be able to fully integrate them into your system (or if it is necessary to operate them as independent units), our units are equipped with a switch and control cabinet that can also be remotely controlled. Our equipment is increasingly equipped with remote monitoring that enables us to always be close to provide any necessary support. Regardless of the technology used for your gas and air compression system, our versatile rental solutions can replace it.



Regardless of the technology used for your gas and air compression system, with our versatile rental solutions and application expertise we can replace your system, 100% oil-free!

### Single-stage compressors.

#### For pressure increases up to 3,500 mbar (g)

These rental machines are equipped with the single-stage compression technology used in the AERZEN Delta Screw series. Single-stage compressors are used to achieve extremely high volume flows at pressures of up to 3500 mbar.

#### Optional extensions:

In addition to these rental machines, we also provide piping, power supplies (transformers/diesel generators), distributors, power cables, air-air coolers, water-air coolers, water separators and much more.



#### Typical fields of application:

- Pneumatic conveying of bulk materials
- Waste water treatment
- Aeration of surface, drinking and waste water
- Oxidation and combustion processes
- Compressed air supply in tunnel construction and micro-tunnelling
- Transport of neutral gases

### Twin-stage compressors.

#### For pressure increases up to 10,500 mbar (g)

The rental machines are manufactured to operate in high-temperature environments. The air cooled design avoids the need for water supply and cooling systems. Our rental compressors differentiate themselves through their low maintenance needs, which enables the compressors to operate for long periods of time without interruption so there is no need to stop your production process and to deploy redundant machines.

#### Optional extensions:

In addition to these rental machines, we also provide adsorption and refrigeration dryers, special in line filters, power transformers and modifications for hot air exhaust or neutral gases.



#### Typical industries:

- Textile industry
- Food Industry
- Chemical and petrochemical industry
- Electrical and semiconductor industry
- Medicine and pharmaceutical technology
- and much more

#### Advantages:

- Extremely efficient with the right compression ratio
- Environmentally friendly: electrically driven, can connect to any electrical network
- Compact and easily transportable
- Plug and play
- Extra silent



# FROM AN ASSEMBLY TO THE COMPLETE SOLUTION. ACCESSORIES FROM AERZEN.

As an application specialist we offer a comprehensive range of accessories to integrate our rental machines into your production processes. This enables us to offer a complete solution that will start at the push of a button. Our accessories are modular and are identified below by product group. Should you have special requirements, then please contact us.

## Perfect connection. From the piping to the valve.

An extensive portfolio of piping elements for low and medium pressure applications (PN10 and PN16) is available for a seamless integration into your applications. This includes pieces with a diameter up to DN 500 for large volume flows at low flow speed – low noise and almost without energy loss. These modular parts are made of galvanized steel or stainless steel (SS316) and consist of bends, T-pieces, control valves, valves, and reducers (DIN and ANSI). For small volume flows, flexible hoses (SS316) can be used in different diameters up to DN 250, as well as flexible DN 80 rubber hoses.

## Cooling and water-air separation. For temperature-sensitive processes.

A minor increase in air temperature is useful to start up production processes in many applications; in some cases it is even necessary. However, if the temperature must be low, for example for plastics and foods, we can deploy air-air coolers that will cool the air back down to 10°C above the ambient temperature. If you are able to provide cooling water, then we can provide water-air coolers from our rental portfolio to cool the air to any desired temperature, including to below the ambient temperature. As an alternative, we can also work with our partners to supply cooling systems. We can install modular water-air separators behind all types of coolers to separate condensate (even in large volumes).

*What makes AERZEN RENTAL So special?  
The technology. The expertise.  
And an extremely broad accessories portfolio.*



## Water aeration sets & bubble barriers. Complete solutions for water and waste water applications.

For the treatment of sewage water, the aeration of rivers, destratification of lakes or to increase the capacity of a waste water treatment plant during a high load period (fruits or vegetable harvest, touristic season), Aerzen Rental can supply complete aeration systems by means of mobile aeration plates with membrane diffusers combined with our blower units. The aeration plates can be installed on the basin floor or floating above the existing elements. With their intelligent design, no work needs to be carried out above or on the water – the system is laid directly in the water with hoses.

## Perfect electrotechnical integration. From digital controls up to the control system.

We have a team of electrotechnical specialists that can integrate our rental machines into existing electrotechnical and control systems (furthermore, all our field technicians are fully qualified electrotechnicians).

By using our low power consumption rental machines, we are usually able to connect to existing facilities. In the event it is not possible, we can connect ourselves to high-voltage network by supplying multi-voltage transformers up to 10 kV, and to IT networks via isolation transformers. We carry all accessories for this purpose, such as field distributor systems up to 1250 kVA, power cables and other electrical connection materials.

Most of our rental machines have a Modbus input to achieve their integration into your control systems (profilbus available on request), and we are also available to discuss custom control interfaces. Furthermore, our rental machines are increasingly equipped with remote monitoring.



# SECURE YOUR PRODUCTIVITY. IN ALL APPLICATION CASES.

For short term or seasonal use, for several months or even years – no matter how long you need the solution, AERZEN RENTAL will ensure your productivity. With an extraordinary rental portfolio, bespoke services, and a committed team of highly qualified process technicians. Experience across a wide range of industries and applications in the implementation of efficient blower and compressor solutions. Economical and efficient. Exactly when you need it.

**Contingency Plan.**

**Staying in control during emergency situations.**

When an emergency occurs, the time available to get the situation back under control before economic losses and/or environmental damage occur is often limited. This means there is little time for a sound decision. The development of a contingency plan enables you to assess the potential solutions and to determine how they can be implemented as part of your process and within your organisation. We are happy to support you in preparing a contingency plan with a manual that indicates how an emergency is to be dealt with, so that people, resources and processes are planned in advance, enabling you to always maintain control regardless of the incident.

**Long-term Rental. Compressed Air for a limited period of time.**

Investments in machines are written off over many years. However, what should you do when you know in advance that you only need the machine for a shorter period of time? Aerzen offers a 'long-term' rental solution for this purpose.

In this solution, the machine is configured in accordance with your needs. The rate is adjusted to reflect the period of time you need the machine and the product includes a solid maintenance plan. In short, you do not need to invest, you eliminate the economic risks associated with ownership and at the end of the project, and furthermore, you are assured that Aerzen Rental guarantees operating reliability throughout the entire period – with its rental fleet for emergencies as a backup guarantee.

**Production campaigns, seasonal demand.**

If you maintain production for only a few weeks or a few months each year, Aerzen Rental is always close by and stands ready to support you. We can set up temporary waste water treatment systems to allow you to treat the excess during seasonal demands, like harvest and touristic seasons. Sugar fabric, waste water plants in wine or touristic areas have already trusted Aerzen Rental to meet their increase of capacity during their peak of production.



Seasonal air requirement or long-term rental? Or in need of maintenance, testing, or campaigns lasting only a few weeks up to production for a few years? AERZEN RENTAL offers highly economical solutions for almost any requirement.



We are an application specialist and do not only rent blowers and compressors, but also all accessories required to fully integrate the rental solution into your production process to save productivity.

**Tunnel Construction. Reliability for integrity and breathable air.**

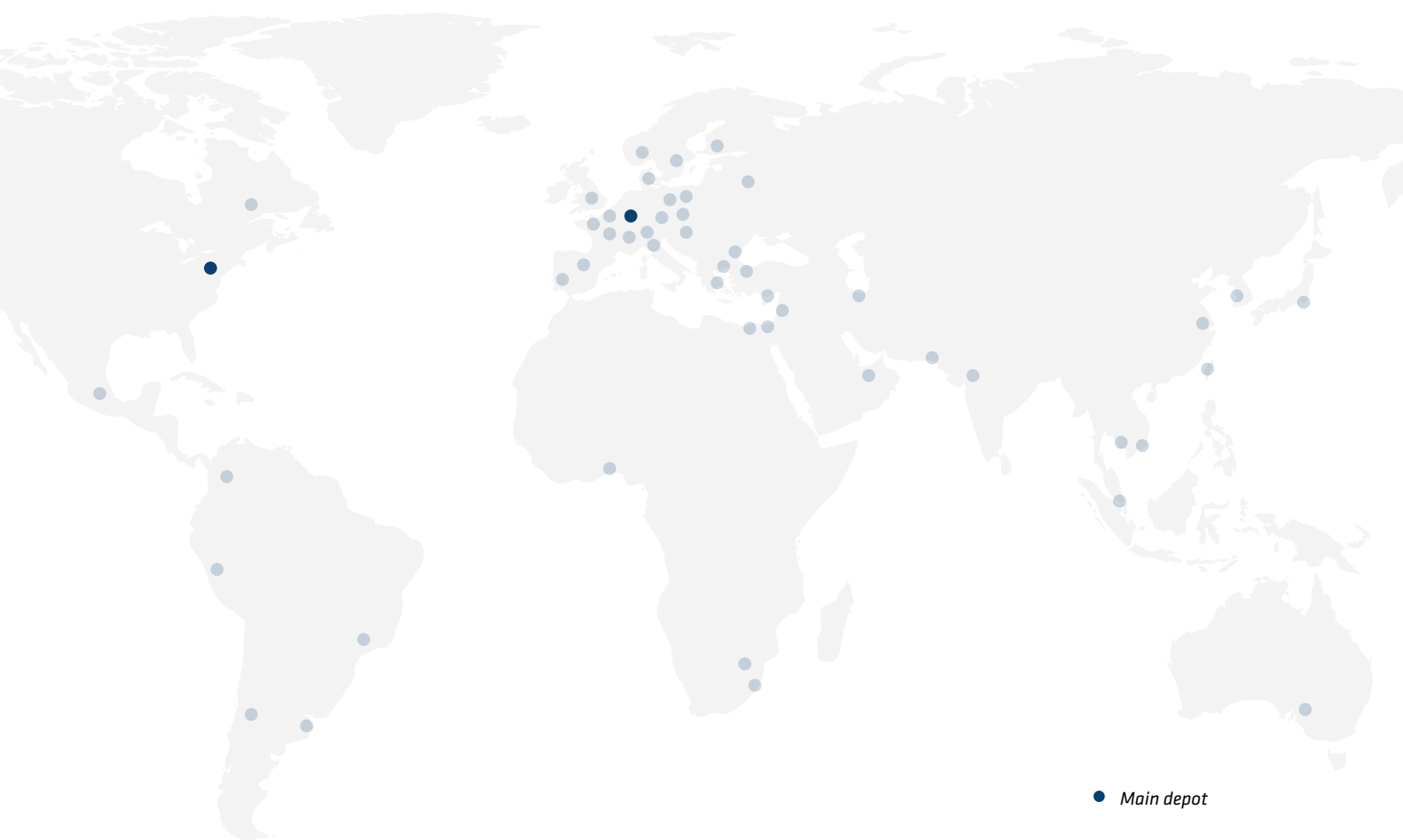
Due to the high operating reliability of our compressors, our systems are frequently deployed in tunnel construction projects, for example in Austria, Germany and France, where not only the tunnel's integrity is secured with air, but the tunnel workers are also provided with breathing air. We have special cooling and control solutions for the tunnel construction sector and are happy to provide you with additional information about these solutions.

**R&D projects. Partnership and diversity of technology.**

AERZEN RENTAL is the perfect partner for your research and development projects, with an extraordinarily broad rental portfolio with six compression technologies, a large number of machines with various volume flows, and accessories for various applications. With our technology and expertise, we support you in testing and development processes in almost all industries, from aeronautics and construction to petrochemical processes.

# 24/7 AERZEN RENTAL HOTLINE. +31 (0)88 9100 000.

We are there for you, even if we are not actually there - outside our business hours. We can be reached around the clock. And be on site within 24 hours. Worldwide. 365 days a year. Use the direct line to AERZEN RENTAL via [www.aerzenrental.com](http://www.aerzenrental.com) or call our hotline.



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**AERZEN**  
EXPECT PERFORMANCE