

Plant engineering

BOGE compressed air systems:

Quality solutions, custom-made in Germany.



BOGE: WITH MORE THAN 20 YEARS OF EXPERIENCE IN PLANT ENGINEERING.

BOGE is a medium-sized, family-owned enterprise based in Bielefeld, Germany. Our compressed air systems are shipped to locations across the globe and enjoy a first-class reputation within the premium segment. Founded in 1907 by Otto Boge, BOGE produces and distributes a full range of oil-lubricated and oil-free piston and screw compressors, which cover all performance classes, as well as components and systems for compressed air treatment.

BOGE has been developing and manufacturing customer-specific compressed air systems for industrial applications for more than 20 years. BOGE Anlagenbau GmbH & Co. brings experts in the field of complex system solutions together under one roof. Our objective is to work with the customer to find the best solution – highly efficient, ultra-modern and custom-made in Germany!

- Energy optimisation / master controls
- Treatment of compressed air
- Nitrogen generation / nitrogen compression
- Turn-key solutions including pipework, cabling and ducting
- Container systems
- Special documentation
- Contracting / financing
- and much more...

Special sector-specific solutions for:

the automotive industry • mining industry • glass industry • power plants • plastics industry • food industry • aviation industry • oil and gas industry • pharmaceutical industry • recycling • shipping industry • textile industry • and many more...

The air to work with comes from BOGE: This applies to more than 100,000 users of compressed air worldwide. When it comes to complex compressed air systems, customers find in BOGE a partner that controls and operates the entire process. As a 360° service provider, we give you all the support you need, from conception right through to manufacturing, commissioning and maintenance.

1. DETERMINING THE REQUIREMENTS



- Joint project meeting to clarify the customer's specific requirements
- Measurements taken on site to determine the demand

6. SERVICING



- Servicing
- Support
- Optimisation

2. CONCEPTUAL DESIGN



- Calculation
- Dimensioning
- Drawings
- Offer

5. INSTALLATION AND INITIAL OPERATION



- On-site installation of the components
- Pipework and cabling
- Commissioning

4. SHIPMENT



- Disposable / special packaging
- Sea freight and air freight
- Special transport

3. MANUFACTURING



- Individual machine manufacture
- Turn-key systems
- Special solutions, e.g. containers

Complex system solutions

made by BOGE.





All from a single source: planning, installation, pipework and cabling.



Commissioning and final acceptance of the compressor station (e.g. pressure tests) are carried out on site.

CONTAINERS



Customised container solution including nitrogen generation.



Container station for extreme environmental conditions.

All from a single source: in situations requiring complex, customised system solutions, renowned industrial customers place their trust in our expertise and high quality standards. They know: that the BOGE name stands for highly efficient and ultra-modern systems that are planned, manufactured and installed by the same company.





BOGE Plus:

System solutions with integrated advantages.

GOOD PLANNING IS HALF THE BATTLE: BOGE'S ENERGY EFFICIENT SOLUTIONS.

OPTIMAL COMPRESSOR SELECTION



A compressed air system can only work efficiently if all of the components are optimally tailored to the specific application. This is why we carefully analyse your requirements regarding output volumes and compressed air quality, and ensure that

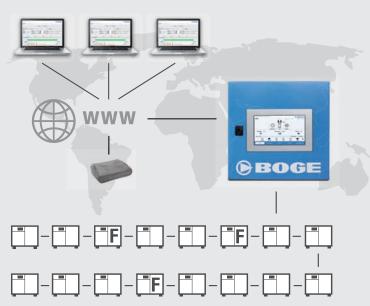
our planning covers such factors as environmental and air intake conditions, cooling water quality, in-house standards, statutory requirements and other specifications.

Our engineers use CAD systems and, among other things, a simulation tool that allows the efficiency of the proposed system to be calculated in advance under real conditions. A comparison of various system concepts provides hard data regarding the most efficient system for your needs: for efficient compressed air right from the start!



Frequency control ensures that compressors maintain a constant pressure. This means that the compressed air supply adjusts itself optimally to match the compressed air demand of our customers.

MASTER CONTROLS



Master controls, such as the Siemens S 7 or the BOGE **air**telligence provis 2.0, are used to ensure perfect coordination of all the connected compressors and other components.

The BOGE **air**telligence provis 2.0 is one of the most innovative control systems on the market and is also exceptionally user-friendly.

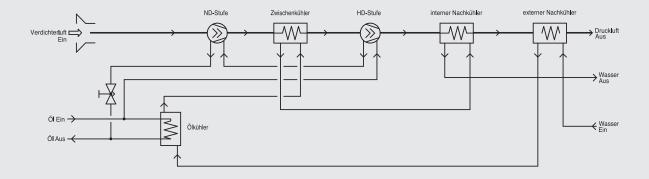
Up to 16 compressors — whether fixed speed or frequency controlled and whether from BOGE or external manufacturers — can be easily connected up and controlled with excellent efficiency by the demand-based master controls.

The efficiency developer: The BOGE project team always places efficient solutions in the foreground when developing a system, because the energy consumption of a compressed air system is the deciding cost factor. By carefully selecting the right components and incorporating frequency-controlled machines and master controls, or by using heat recovery concepts, BOGE compressed air systems are able to achieve optimal efficiency values.

WE MAKE YOUR ENERGY GO FURTHER: BOGE'S HEAT RECOVERY.

Heat recovery components are available from most manufacturers. BOGE Anlagenbau, however, implements projects that are tailored to the individual requirements of the customer. Our engineers have succeeded in increasing the temperature from 70 °C to 95 °C, for example, for certain projects. Only customer-oriented adaptations of this kind can achieve maximum energy recovery.

BOGE develops heat recovery solutions for both oil-lubricated and oil-free compressors.



WE BUILD, YOU SAVE!

Suppose that you operate a 160 kW compressor that runs at 70 % capacity on average. 90 % of the input energy is recovered, meaning that the usable energy is $160 \,\text{kW} \times 70 \,\text{W} \times 90 \,\text{W} = 100 \,\text{kW}$.

In this example, your total savings could be as much as 65,000 euros!



For four generations, customers from plant engineering, industry and trade have relied on BOGE know-how when it comes to planning, developing and manufacturing compressed air systems. They are fully aware of the fact that BOGE AIR is more than just ordinary compressed air: utmost safety, outstanding efficiency, excellent quality, maximised flexibility along with dependable service are the ingredients to transform BOGE AIR into the air to work with – in Germany, in Europe and in more than 120 countries around the world.

Our range of services include the following:

- Energy efficient systems development
- Plant design and engineering
- System control and visualisation
- Oil-free piston and screw compressors
- Oil injected screw compressors and oil lubricated piston compressors
- Compressed air treatment
- Compressed air distribution and storage
- Compressed air accessories
- Compressed air service

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