



# **Your Partner for Efficient Compressed Air System Solutions**

# KAESER KOMPRESSOREN – The global compressed air systems provider

KAESER was established in 1919 as a machine workshop, but started on the road to becoming one of the world's leading compressed air systems providers in the 1950s when founder, Carl Kaeser Snr, made the decision to start manufacturing reciprocating compressors. The breakthrough on the road to today's market-leading position among the world's top compressed air system suppliers came at the beginning of the 1970s when KAESER developed its innovative rotary screw airend featuring the SIGMA PROFILE. With expertise and commitment from approximately 5000 employees worldwide, KAESER today ranks amongst the world's largest and most successful compressor manufacturers, exporting compressed air system equipment to almost every corner of the planet.

All locations in the international KAESER group are linked by the very latest information- and network-technology.





## Main plant, Coburg

The KAESER headquarters in Coburg currently employs approx. 1900 people. The facility covers an area of over 150,000 m<sup>2</sup> and produces KAESER's extensive range of compressors.

## Research and Development Centre

Our products are developed and enhanced using advanced test facilities and precision measuring equipment in our state-of-the-art Research and Development Centre. Moreover, our engineers are continuously pushing the boundaries of compressor technology and design with new models.

## Gera plant

Covering an area of over 60,000 m<sup>2</sup>, the Gera plant currently employs approximately 300 people and produces KAESER's extensive range of refrigeration dryers, as well as rotary and screw blowers.



# KAESER KOMPRESSOREN – Efficient compressed air system solutions

Seeing the whole picture: efficient compressed air supply is more than the sum of dependable, energy-saving individual components. With comprehensive expertise in compressed air solutions and a wide range of products, KAESER KOMPRESSOREN provides every customer with the compressed air system best suited to their individual needs, with unrivalled reliability and efficiency.



## Screw blowers with SIGMA PROFILE

Featuring world-renowned SIGMA PROFILE rotors, KAESER's new screw blowers combine exceptional energy efficiency and durability with simple installation and operation for the low pressure sector.



## Compressed air contracting

Just buy the air you need – turn fixed costs into variable costs, calculate your exact compressed air consumption, free-up resources.



## Rotary screw compressors with SIGMA PROFILE

More compressed air for less energy – the durable, powerful and efficient foundation for dependable and cost-effective compressed air supply.



## SECOTEC dryers

Thanks to the innovative SECOTEC cycling control, KAESER refrigeration dryers provide exceptional efficiency.



## Rotary blowers

KAESER's energy-saving OMEGA PROFILE rotors provide quality conveying and process air at low pressure and vacuum.



## Portable compressors

Featuring high efficiency SIGMA PROFILE rotors and delivering exceptional power and performance, MOBILAIR portable compressors are the ideal choice for construction sites of any size.



## Individually tailored compressed air stations

Precise demand measurement and careful matching of all components results in dependable, durable and efficient compressed air systems.





### Reciprocating compressors

Rugged and durable, KAESER reciprocating compressors are perfect for supplying compressed air for trade and industry applications.



### KAESER AIR SERVICE

The combination of a comprehensive service network and rapid-response parts logistics ensures seamless compressed air supply availability.



### Boosters

Customised boosters for applications including PET container and nitrogen production. Available as packages or base-mounted models.



### Dry-running rotary screw compressors

For applications requiring this compression method, KAESER dry-runners are the perfect choice and, as you'd expect, are built to KAESER's meticulous quality standards.



### Compressed air management

The SIGMA AIR MANAGER 4.0 coordinates the compressed air station with maximum efficiency and transparency, and is able to interface with all centralised control systems.



# Analysis – Optimisation – Solution

KAESER has developed highly effective tools for planning of new compressed air supply systems and optimisation of existing ones:

With information gathered from carrying out a detailed **AIR DEMAND ANALYSIS (ADA)** and using the specially developed **KAESER ENERGY SAVING SYSTEM (KESS)**, KAESER's project engineers are able to provide individually tailored compressed air system solutions.

Use this expertise to your advantage and benefit from KAESER's decades of experience in compressed air engineering and technology.

This will ensure that the energy you expend on compressed air production and treatment is used with maximum efficiency for years to come. The results: reduced energy costs and considerable environmental benefits.

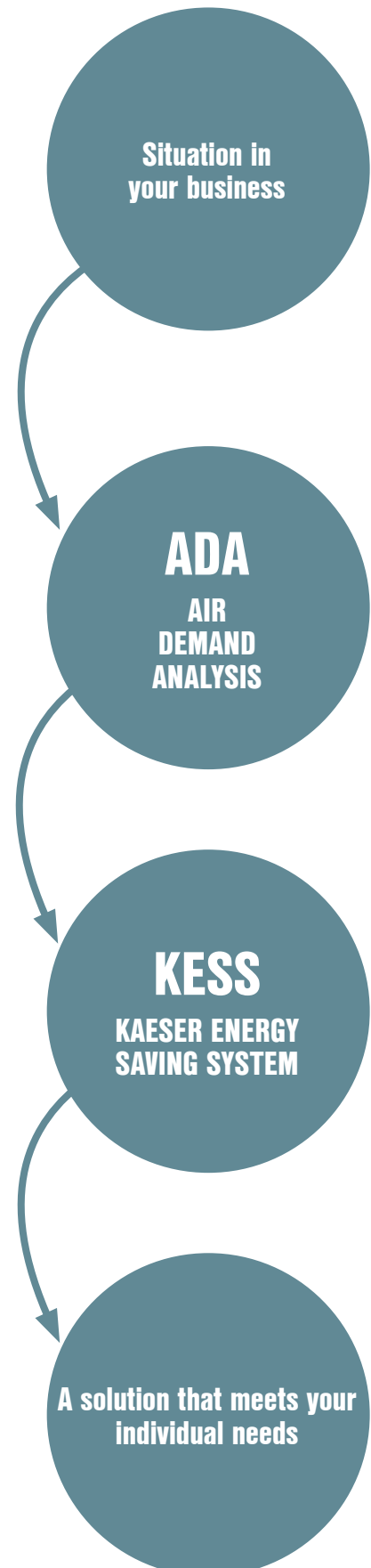
## Total life cycle costs

Depending on utilisation, electrical power can account for up to 90 % of the total costs of compressed air production. It therefore pays to keep power consumption of compressors and peripheral equipment to an absolute minimum – many existing compressed air systems hide an energy savings potential of 30 percent or more. In addition to advanced compressor engineering technology, such as SIGMA PROFILE airend rotors developed by KAESER, the majority of this potential can be attributed to the master controller. This is where the SIGMA AIR MANAGER 4.0 with its adaptive 3-D<sup>advanced</sup> Control comes into its own.

Depending on the model, the SIGMA AIR MANAGER 4.0 can control up to 16 compressors using its adaptive 3-D<sup>advanced</sup> Control algorithm to ensure perfect compressed air system co-ordination. As a result, just the right amount of compressed air power is provided to suit the specific needs of the application, which in turn assures maximum energy efficiency at all times.



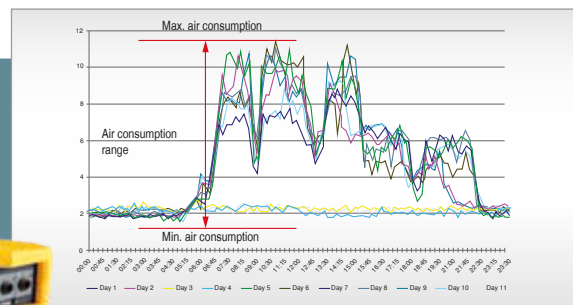
Image: 3-D Control



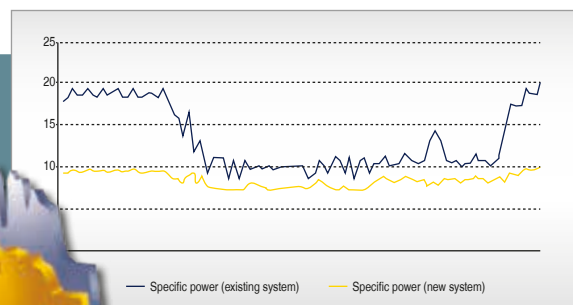
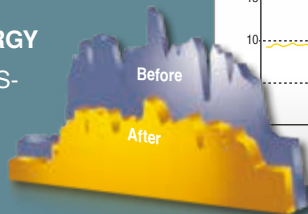
**01** As every company's compressed air needs are different, KAESER's experts produce an exact air demand profile for each application in order to be able to design the most reliable and efficient compressed air solution.



**02** The first stage when planning any compressed air system is to determine the actual air demand. KAESER experts gain valuable insight into compressed air usage by carrying out a detailed AIR DEMAND ANALYSIS (ADA).



**03** The ADA and **KES (KAESER ENERGY SAVING SYSTEM)** tools developed by KAESER allow realistic predictions of the energy savings to be gained from the proposed system options.



**04** Thanks to the very latest CAD technology, the user can take a virtual tour around the proposed compressed system long before the first machine is installed: CAD planning enables fine-tuning to accommodate the actual installation environment.



# Time is money: Service to suit your needs

One of the key requirements for any compressed air application is maximum compressed air availability. This is achieved only by using the very best and most efficient components in conjunction with meticulous service and maintenance. Premium service plays a key role in ensuring that your compressed air supply system operates at the peak of its performance at all times and provides maximum production reliability.

## Meticulous service reduces energy costs

Energy efficiency goes hand-in-hand with reliability as a core ingredient of a cost-effective compressed air supply. Application-tailored service reduces air leakage, maintains correct operating temperature, guarantees minimal pressure drops (in conjunction with original filters) and optimises system control. KAESER AIR SERVICE reduces energy costs and maximises compressed air availability over the long-term.

## Training and qualifications

KAESER AIR SERVICE ensures continuous end-to-end care of all compressed air systems. You can be safe in the knowledge that all of your compressed air technology equipment is in the hands of highly skilled and qualified service technicians. KAESER's authorised field staff participate in basic and specialised modular training courses to ensure that they have the necessary skills to provide the very best in professional, expert service.



Genuine KAESER parts ►





◀ KAESER service vehicle



This in turn significantly enhances the long-term reliability and efficiency of the compressed air systems to which KAESER's service personnel are assigned.

### **Global service – at your doorstep**

KAESER AIR SERVICE is there for you: in Germany, for example, highly qualified service technicians are on standby at eight branch offices across the country. A customised maintenance and service concept identifies what's required to optimise compressed air efficiency for each and every application. Close proximity ensures rapid response, which means maximum compressed air availability.

### **Fully equipped**

KAESER service vehicles are stocked with a comprehensive range of service and maintenance parts to ensure that technicians can immediately carry out any necessary repair work. Should additional parts be required, the advanced logistics centre at the main plant in Coburg will ship the necessary items to site overnight – and that's a promise! Preventative maintenance too plays an essential role in achieving optimum system performance and minimised costs, which is why all associated items are also available at short notice.



### **24-hour emergency service**

Compressed air needs to be available all day, every day, which is why technical support staff, replacement parts and service technicians are on standby to provide emergency support 24/7.

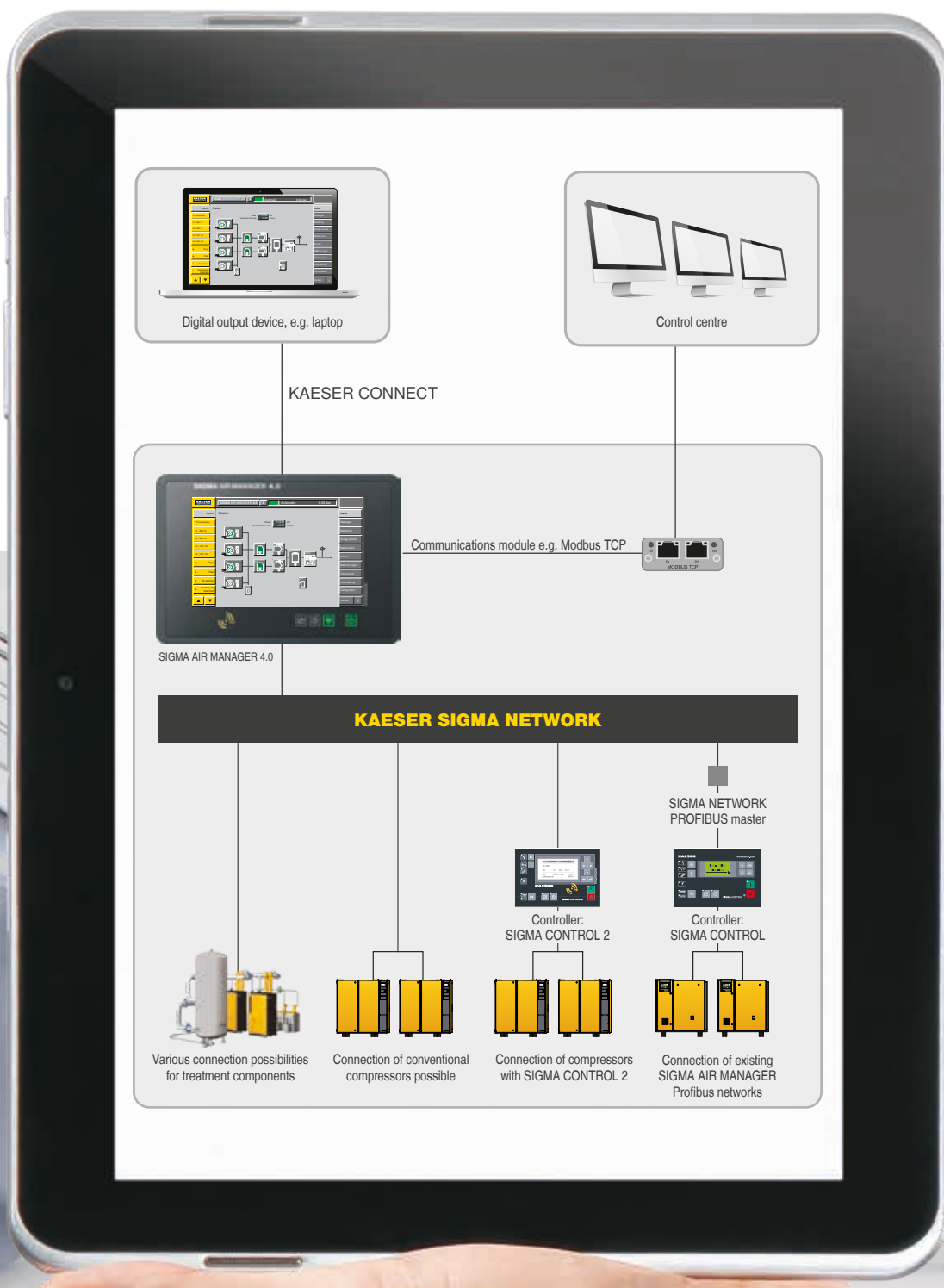
# Compressed air supply – Efficient and reliable

## **Dependable: KAESER compressed air**

Whether providing air for a jewellery manufacturer, a cement works, a car manufacturing plant, a brewery or an industrial mill, each and every compressed air installation from KAESER KOMPRESSOREN is individually tailored to suit the application's exact needs and is designed to ensure many years of efficient and dependable service. Last but not least, our round-the-clock service ensures total peace of mind 24 hours a day, 7 days a week.







# The world is our home

As one of the world's largest compressed air system providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

With innovative products and services, KAESER KOMPRESSOREN's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency.

Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the KAESER group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at the peak of its performance at all times and provides maximum availability.



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