



### GBS Screw blowers

The GBS screw blowers represent a new benchmark in compressor technology in the power range 75 to 160 kW with a volume flow of 22 to 104 m<sup>3</sup>/min and differential pressures up to 1100 mbar. These machines are characterised by extremely economical control, quiet operation, optimised footprint and low maintenance. Above all, however, they are equally highly efficient over the entire control range.

### A class of its own for high volume flows

The GBS screw blower is an excellent alternative to turbo compressors due to its efficiency, which is not only excellent at certain points, but also across the entire control range. The new screw blower for the low-pressure range impresses with KAESER's many years of expertise in the development of highly efficient screw compressors as well as the automation of smart machines to meet the needs of Industry 4.0. Compared to conventional rotary lobe blowers, the new screw blower impresses with efficiency savings of up to 35 %. Significant energy advantages compared to many screw blowers and turbo compressors on the market round off the profile of the new blowers.



KAESER GBS screw blowers  
Picture source: KAESER Kompressoren SE

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## Convincing due to high efficiency and low maintenance requirements

Thanks to the power transmission from the motor to the compressor with a loss-free and maintenance-free gearbox, the GBS screw blowers are not only highly efficient, but also require little maintenance. The machines are also designed to be very space-saving and quiet.



In the SFC version, a frequency converter ensures that the volume flow is adjusted as required. Optimum overall efficiency is achieved due to the optimally matched frequency inverter and motor. The particularly efficient synchronous reluctance technology is used here up to an output of 110 kW.

Constant volume flows with integrated star/delta starter are available with the STC version. IE4 super-premium efficiency motors ensure energy savings here.

In accordance with the tight tolerances of ISO 1217 Annex E, KAESER guarantees the realisation of high predicted savings for the power input per flow rate (specific power input in kW per m<sup>3</sup>/h). This guarantees that the planned savings and payback periods really apply.



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Picture source: KAESER Kompressoren SE

Operational safety and smart communication through connection to process control systems in accordance with the requirements of Industry 4.0 are ensured by the integrated Sigma Control 2 controller. For stations with several blowers, the higher-level control system Sigma Air Manager 4.0 is recommended. This has control algorithms specially developed for low-pressure applications. This saves even more energy and simplifies automation.

In the field of compressors and automation technology, KAESER technology benefits particularly energy-intensive applications such as the generation of activated air in water treatment and for bioreactors, as well as flotation and fluidisation.

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