

## HIGH-SPEED TURBO IMAGE MATERIAL

+++ BOGE at ComVac: Hall 26, Stand B 48 +++

### New era in the production of oil-free compressed air

With its high-speed turbo technology, BOGE is setting standards in the industry

#### Overview of HST models

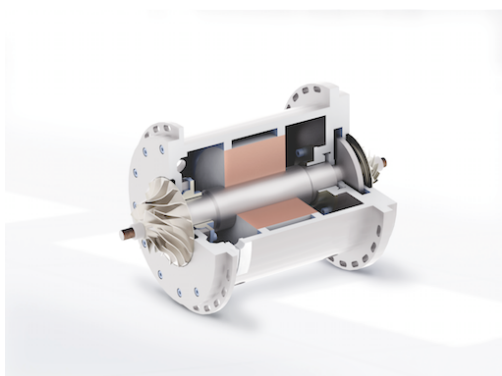


**HST 55:** The smallest HST produces 9.7 m<sup>3</sup> of air per minute at 55 kW.

**HST 110:** The medium-sized model produces 17.97 m<sup>3</sup> of air per minute at 110 kW.

**HST 220:** The most powerful HST model produces 36.19 m<sup>3</sup> of air per minute at 220 kW.

#### The design principle



The permanent magnet motor does not need any gear unit to reach the required high speeds and, as the drive shaft contains air-lubricated bearings, the entire system

manages to function without any oil. A high-quality impeller manufactured from titanium sits at both ends of the motor shaft and produces the compressed air in conjunction with the diffuser and the spiral housing. A sophisticated cooling concept ensures effective cooling of the air after each of the three compression stages and the integrated frequency inverters allow the volume flow rate to be infinitely adjusted to the demand for compressed air.

### Drive shaft with air-lubricated bearings



Unlike magnetic bearings or roller bearings, a shaft with air-lubricated bearings does not need either external power or any material other than air to achieve extremely high speeds. The air-lubricated bearing stabilises itself and does not require any auxiliary bearings. In addition, this type of bearing ensures virtually wear-free operation and a correspondingly low amount of maintenance.

### Touch control



Based on the modern focus control 2.0 machine control system, the HST control system is equipped with touchscreen operation and a user interface that is intuitive to understand. It can be used to control up to four variable frequency high-speed turbo compressors – authorised operating personnel can log in conveniently and contactlessly using an RFID chip.

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**About BOGE**

With more than 100 years of experience, BOGE KOMPRESSOREN Otto Boge GmbH & Co. KG is one of the oldest manufacturers of compressors and compressed air systems in Germany. It is also one of the market leaders. Whether for high-speed turbo compressors, screw compressors, piston compressors, oil-lubricated or oil-free, complete systems or individual devices, BOGE meets the most diverse requirements and highest standards – in a precise and quality-aware manner. The family company which operates internationally has a workforce of 650 employees, approximately 400 of which work at the headquarters in Bielefeld, and is managed by Wolf D. Meier-Scheuven and Thorsten Meier. With its numerous sales offices and subsidiaries, BOGE is available to its international customers at a local level and supplies products and systems in more than 120 countries worldwide. For further information, visit: [www.boge.de](http://www.boge.de).

If you have any questions, photo requests or would like further information, please contact:

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