

BOGE AIR. THE AIR TO WORK.



BOGE LPT 150

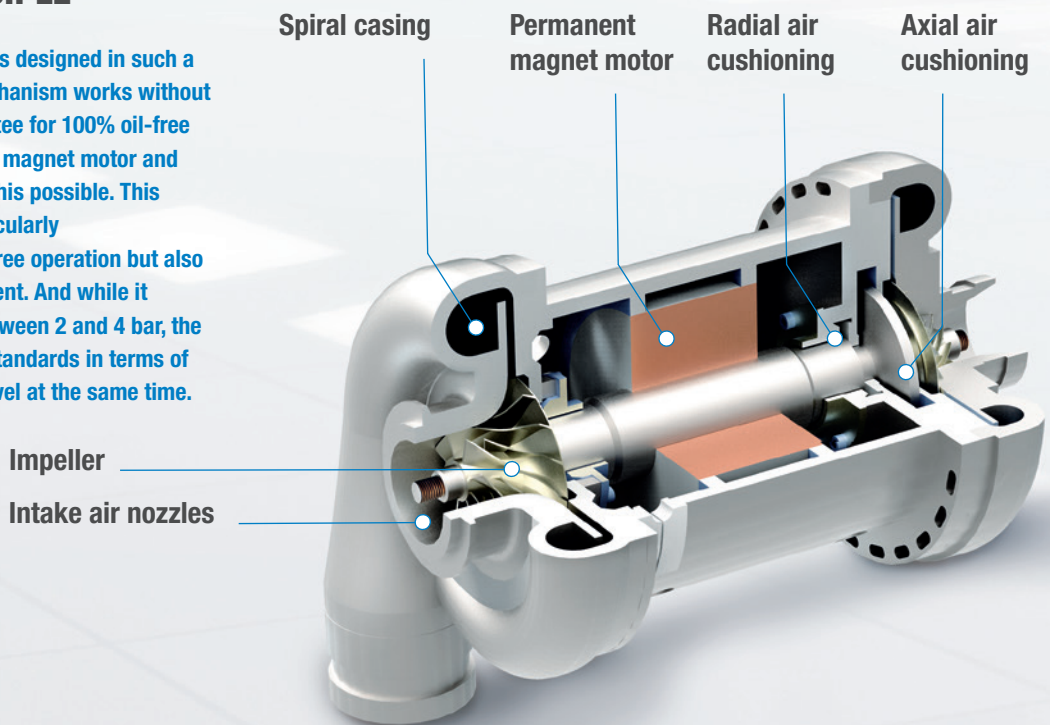
Oil-free compressed air from 2 to 4 bar_g

BOGE LPT 150

The best characteristics and optimum degree of efficiency for low pressure systems.

THE DESIGN PRINCIPLE

The Low Pressure Turbo 150 is designed in such a way that the entire drive mechanism works without lubrication – the best guarantee for 100% oil-free compressed air. A permanent magnet motor and air-guided drive shaft make this possible. This design not only enables particularly low-maintenance and wear-free operation but also reduces the energy requirement. And while it supplies stable pressures between 2 and 4 bar, the LPT 150 is also setting new standards in terms of weight and noise pressure level at the same time.

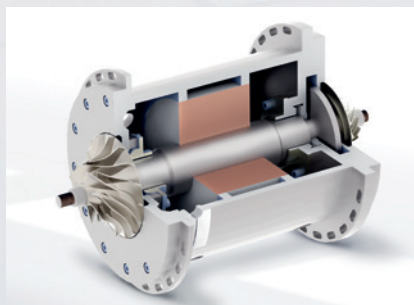


GREATER EFFORT FOR LOW PRESSURES



THE TITANIUM IMPELLER

Reliability is the foremost principle – therefore no material other than titanium was considered for the impeller, as this not only offers weight advantages but is also effective due to its special resilience. The material characteristics also allow finer tolerances.



THE PERMANENT MAGNET MOTOR

Permanent magnet motors suit the declared objectives of the BOGE developers perfectly – achieving a breakthrough in downsizing and ensuring reliable and highly-efficient operation. They are compact, enable extremely high speeds and are effective due to their very high energy density.

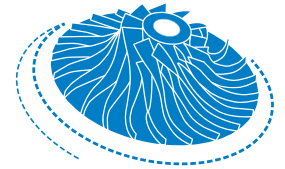


SMALL ASSEMBLY SPACE THANKS TO AIR BEARINGS

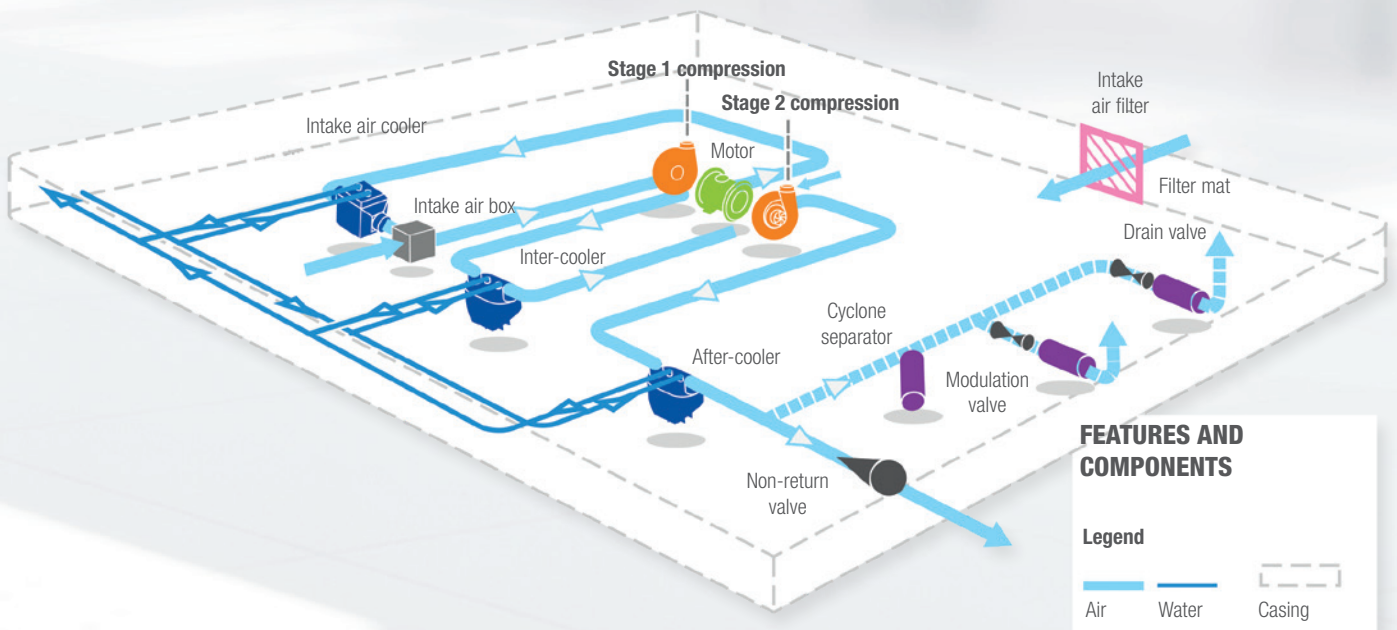
To completely do away with oil or grease, we have replaced traditional bearings with air bearings. What sounds so simple is actually a true challenge for engineers, to optimise the interaction of individual bearing components for smooth running. The results are substantial, using a principle that is used in aviation a considerably smaller assembly is achieved.

Even ambitious savings objectives can thereby be achieved:

The consistent reduction of components not only limits resources but also has direct effects on the maintenance costs and procurement price. With the LPT 150, air can be compressed up to 4 bar at a considerably higher degree of efficiency than comparable screw compressors. It is also runs pleasingly quietly and unobtrusively.



**LOW
PRESSURE
TURBO**
Oilfree Class 0



FEATURES AND COMPONENTS

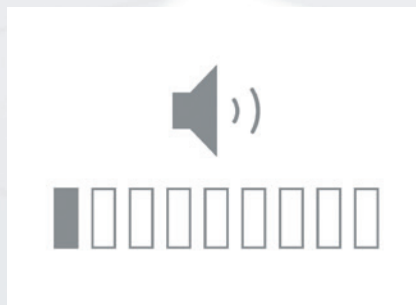
Legend

- Air
- Water
- - - Casing



OIL-FREE CLASS 0

This classification is achieved easily by the new BOGE turbo compressors, but they do not just deliver an absolutely oil-free end product. Thanks to the unique air-guided motor shaft and the complete absence of lubrication, these are completely oil-free compressed air systems.



THE NOISE PRESSURE LEVEL

Just as surprising as the small footprint are the unobtrusive operating noise and the considerably lower noise pressure level: This is 80 dB(A) with an oil-free screw compressor, but with an LPT compressor this is unusually quiet at just 63 dB(A), and it works at a pleasant-sounding octave volume. This enables flexible placement and saves on expensive noise protection measures.



THE TOUCH CONTROL

Based on modular focus control 2.0 – one of the most up-to-date machine controls of our time – the control of the LPT is also a delight thanks to its touch screen operation and intuitive user interface. Up to four frequency-controlled turbo compressors can thereby be controlled effortlessly, and access by authorised operating staff occurs conveniently and touch-free via an RFID chip.

Wherever low pressures are required, the new BOGE LPT 150 provides an excellent degree of efficiency. Thanks to the high energy density of its permanent magnet motor, it weighs less than a third of an oil-free screw compressor. Pressures between 2 and 4 bar can thus be achieved extremely economically.

BOGE KOMPRESSOREN

Otto Boge GmbH & Co. KG

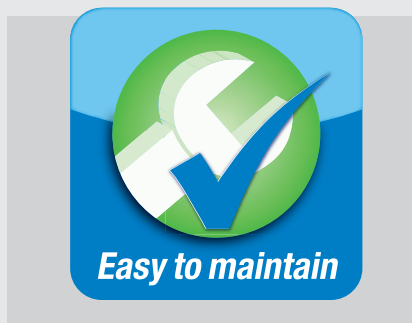
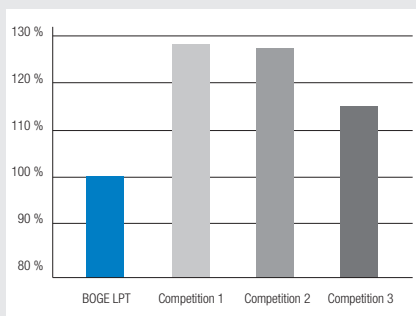
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WHY THIS INNOVATION BELONGS TO THE FUTURE



DRASTICALLY REDUCED OPERATING COSTS

With low pressure turbo technology even the most ambitious savings objectives can be achieved. From low procurement costs and minimised energy requirement to low-wear operation – suddenly oil-free compressed air between 2 and 4 bar is affordable as never before.

MAINTENANCE – ALMOST A FOREIGN WORD

Greater efficiency with fewer raw materials – this principle of the LPT range increases reliability and reduces maintenance costs, as: where there is neither a drive nor an oil system, and the number of bearings is kept to a minimum, maintenance costs are barely in the equation.

IMPROVEMENTS ON THE PRODUCTION LINE

BOGE selectair is a globally unique programme that covers every requirement, taking the efficiency and lifespan of its compressed air systems to the next level through continuous improvements.



WATER AND WASTE WATER TREATMENT

The LPT 150 is appealing for many large production companies with their own treatment plants. The LPT 150 is eminently suitable, even in special cases, such as water treatment on fish farms.



METAL PROCESSING / PRODUCTION LINES

Whether it is cooling using compressed air or discharging shavings in engine blocks and gearboxes – it is as though the LPT 150 was made for the low pressures required in the metal processing industry.



PROGRESS ON A BROAD FRONT

In the plastics, chemical and food industries too, in paint shops and for glass manufacturing (archive image), absolutely oil-free operation is an important consideration – together with the gain in efficiency in the low pressure range.

THE LPT 150 IN FIGURES

BOGE type	Actual quantity delivered (50 Hz and 60 Hz)				Rated output		Dimensions W x D x H mm	Weight kg
	bar _g	psig	m ³ /min.	cfm	Main drive kW	hp		
LPT 150	2-4	29-58	31.4-42.9	1108.9-1515	150	200	1230 x 1970 x 1930	1500