

Using BOGE turbo compressors

Production of high-tech textiles: DELCOTEX reduces energy consumption by 35 per cent

The production of technical textiles requires maximum precision and efficiency. For this, DELCOTEX relies on state-of-the-art weaving technology – supported by BOGE’s powerful turbo compressors. The compressed air systems not only allow oil-free production but also save up to 35 per cent energy.

Whether as conveyor belts in airports, roof coverings for supermarkets or bullet-proof vests – the technical textiles made by DELCOTEX, a family-run business from Bielefeld, have numerous applications. They are made using airjet weaving machines in which compressed air propels the threads from one selvedge to the other at speeds of up to 300 km/h. A reliable supply of compressed air is absolutely essential. Previously, DELCOTEX had used screw compressors that required much maintenance and were cost-intensive.

In order to reduce energy consumption during production, the manufacturer decided on Type T 220 turbo compressors supplied by BOGE, the compressed air specialist from Bielefeld. “We had the choice between a complex major overhaul of our old compressors or investing in a more efficient solution. That’s why we went with BOGE, also because they’re located close-by and we’ve worked well together before”, explains Lutz Burghoff, Regional Head of Operations and Technology, DELCOTEX.



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Complex weaving technology reliably supplied with compressed air

Compared with previous solutions, the turbo compressors save up to 35 per cent energy. Furthermore, BOGE's T series compressors deliver Class 0 oil-free compressed air and, thanks to their compact design, are perfect for the hygienically sensitive production processes of textiles. In addition to the high level of efficiency, the compressors offer the option of heat recovery. In this way, the heat generated during the compressed air process can be used for other production stages, such as heating water up to 90 °C.

Another advantage of the new solution is its digital connection: using the Smart Service Tool BOGE connect, all of the compressors' key operating parameters are monitored continuously. Potential interruptions can be detected early and optimisation options flagged. "The compressors not only offer a high level of reliability but also allow precise planning, thanks to their comprehensive maintenance concept. That's why we're intending to use additional T series models in the future to cover production peaks more effectively", Lutz Burghoff summarises.

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