FILCOM Application Example – Packing technology

KAESER Screw blower

Compressed air

Initial situation

Within the SAIER Group, SAIER Verpackungstechnik GmbH & Co. KG is the specialist for buckets, trays and tubs in all shapes and volumes from 1 to 65 litres. Solid plastic packaging is injection moulded from polypropylene and can be finished using the IML (in-mould labelling) decoration process. A large number of standardised or customised packages are produced and delivered just-in-time every day.

SAIER VERPACKUNGSTECHNIK

Solution statement

- SAIER Verpackungstechnik in Alpirsbach decided to use a DBS 220 M SFC screw blower.
- The KAESER screw blower is used to empty the incoming tanker trucks and then temporarily store plastic granulate in silos via piping systems
- KAESER screw blowers up to 250 kW are suitable for use in a wide volume range
- In terms of commissioning, operation and maintenance, these robust, long-lasting blowers exploit all potential for savings
- User-friendly units are supplied as ready-to-connect "plug & work" products and require absolutely little maintenance

Customer value

- The screw blower used reduces energy consumption and also makes a not inconsiderable contribution to environmental protection and noise abatement.
- The new KAESER screw blower, which replaces a previously used blower station, has resulted in energy savings of 30%. This is the result of a significant reduction in system pressure with an increased delivery rate.
- The efficiency of the unloading process of the silo vehicles could also be significantly increased by optimising the use of the plant.
- A time saving of 20 % has already been achieved here.

Challenge

SAIER Verpackungstechnik has always recycled almost 100% of its production-related plastic waste and reused it in selected production processes. Therefore, the company generates almost no plastic waste - on the contrary, for some years now, suitable recycled and post-consumer materials have been purchased for non-food products. If a modern production company has such an eye on the energy efficiency and sustainability of its processes and facilities, it must inevitably also think about compressed air generation.

When it comes to the pneumatic emptying of silo vehicles, bulk material processing companies are often faced with a choice: on-board, i.e. mobile compressors or stationary ones. The pneumatic emptying of silo vehicles by on-board compressor systems has several disadvantages. Not only is it uneconomical, as it increases the downtime of the vehicles and thus reduces their profitability. The procedure also pollutes the environment, as the truck engine has to drive the silo compressor at an increased speed during the entire unloading period. Added to this is the high noise level. Faster, more economical, more environmentally friendly and considerably quieter emptying is done by stationary compressor units installed at the unloading site.

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