



VACUUM SOLUTIONS



CASE STUDY

EMSLAND FRESH POULTRY GMBH

(EMSLAND FRISCHGEFLÜGEL GMBH)

High maintenance cost savings and absolute reliability in **meat processing**

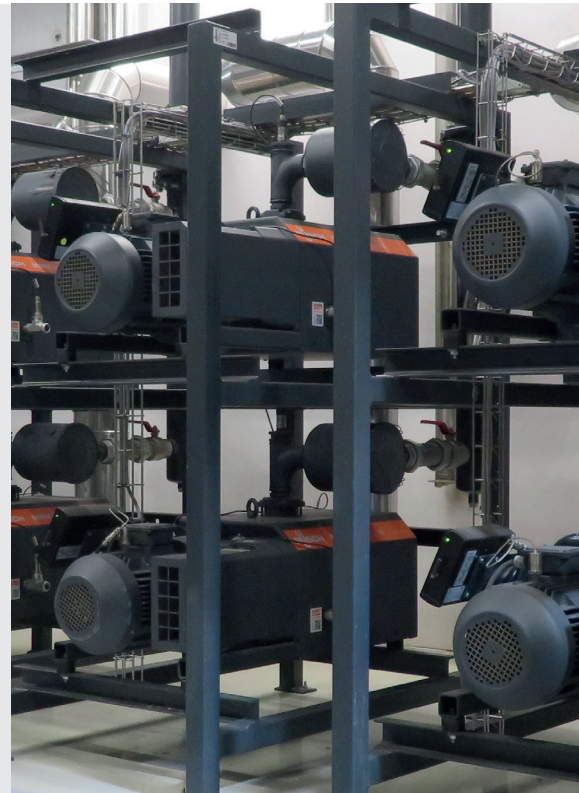
OUR SOLUTION

The unconditional quality requirement applies throughout the company: for vacuum supply, animal welfare, products, working conditions. Reliability and fail-safety are crucial for Emsland Frischgeflügel, as otherwise, manufacturing would come to a standstill and – in the worst case – allow food to spoil.

In the production plant in Haren, chicken parts from wings to fillets are processed for the food retail trade and industrial processing. On the processing lines, all cut chicken pieces fall through collection hoppers into dedicated vessels. A ball valve opens every six minutes and the contents are extracted. Busch MINK claw vacuum pumps provide the vacuum required for extraction, transport and the cleaning process at the end of the production shift. At the beginning of 2022, Kohne had the old vacuum system with oil-lubricated rotary vane vacuum pumps exchanged for

the new MINKs. He also took advantage of digitalization for the changeover and had all 36 MINK pumps fitted with OTTO, the digital service innovation from Busch.

Other central vacuum systems from Busch are also in use at Emsland Frischgeflügel in Haren. They provide additional transport systems with vacuum. 25 special oxygenated versions of the MINK vacuum pumps are used for packaging under protective gas with an elevated oxygen level (MAP). All 135 existing pumps will be retrofitted with the IoT kit in the near future.



SAVE 70 PERCENT ON MAINTENANCE COSTS AND RECEIVE A 30 PERCENT PROMOTION BY CONVERTING TO A NEW VACUUM SYSTEM FROM BUSCH VACUUM SOLUTIONS.



COMPANY PROFILE

- Meat processing
- Haren, Deutschland
- www.landgefuegel.de

APPLICATION PROFILE

- Meat processing lines
- Transport/Extraction
- MINK claw vacuum pumps

Due to their dry operating principle, MINK claw vacuum pumps do not require operating fluids in the compression chamber and operate nearly maintenance-free. What's more, thanks to the state-of-the-art IE4 motors that drive the MINKs, around 274,500 kWh of energy can be saved in one year. 30 percent of the purchase costs was refunded from the Federal Office for Economic Affairs and Export Control (BAFA), which supports the conversion to state-of-the-art, energy-efficient technologies in Germany.

Equipped with the OTTO digital services, the 36 MINK pumps permanently send performance data such as pump temperature, vibrations, and inlet pressure to the cloud, which can then be accessed via PC, tablet or

smartphone. "How high the transmission oil temperature is, whether the inlet pressure is constant, how high the exhaust air temperature is – we didn't know all that before. And now, thanks to OTTO, we even have it on our tablet via the app," says Kohne enthusiastically. Emsland Frischgeflügel has also signed an Active Service Contract for maintenance with Busch and trusts the vacuum specialists from Maulburg for maintenance. Through targeted, predictive maintenance, excessive wear and premature failure can be prevented. And in the event of a problem, Busch technicians can also connect to the system remotely.

„IT WAS THE RIGHT DECISION TO MODERNIZE AND DIGITALIZE OUR PLANTS TOGETHER WITH BUSCH! FOR US, OTTO IS BOTH CONVENIENT AND PROFITABLE!“ – JOHANNES KOHNE (TECHNICAL MANAGER)