



Rotary lobe pumps of the GL Series: Powerful with 134 kg less weight

Case Study - Hessler Agrar-Energie GmbH & Co. KG



Problem

Heavy components impeding efficiency in liquid manure transport

Solution

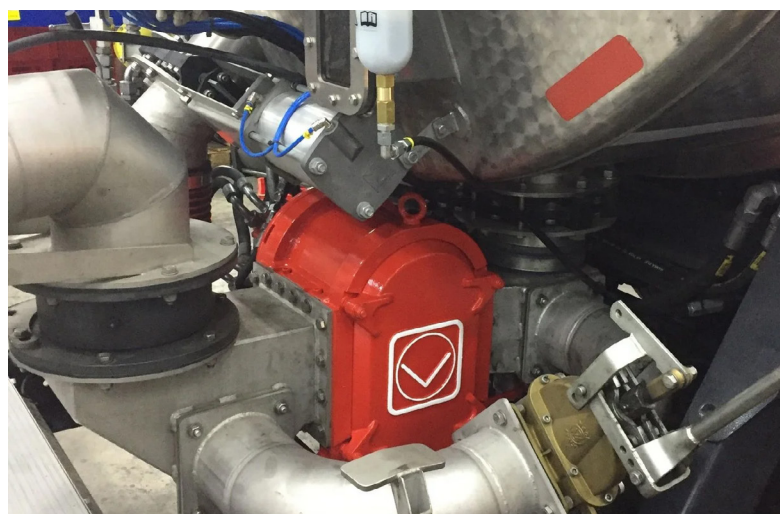
Reducing vehicle weight with light pump technology & Making liquid manure management more efficient

The customer and the problem

Hessler Agrar Energie GmbH & Co. KG is a family run business in Essen, Lower Saxony and cultivates approx. 500 hectares of farmland. Each year the business spreads approx. 40,000 cubic metres of liquid manure using a 15 metre SwingUp dribble bar system from Vogelsang. For transporting liquid manure, owner Simon Hessler uses two liquid manure trailers with a container volume of 30 cubic metres each.

"The pump installed there weighed almost 345 kilograms. To save weight here, we looked around for a lighter alternative." Simon Hessler, farmer and business owner.

Distributing liquid manure that has a dry matter content evenly over the entire field was a major challenge for the contracting company. Moreover, the distributor was not easily accessible, which caused maintenance to take longer.



The rotary lobe pump of the GL series achieves weight savings of around 50 percent

The solution

Hessler replaced the pumps installed there with two GL series rotary lobe pumps from Vogelsang. These get by without a heavy synchronising gearbox. In the aluminium version, the rotary lobe pump weighs 211 kg, equivalent to a weight savings of approx. 39 percent (134 kilograms) compared to the pump previously installed in the trailer.

Hessler: “Ultimately after the conversion, our tankers are now 134 kilograms lighter, yet as powerful as they ever were.”



ExaCut ECQ

Advantages of the GL series

- No heavy synchronising gearbox
- Significant weight savings of approx. 39 percent with equally powerful performance
- Allows for payload increase on vehicle
- Compact design and easy to retrofit
- Lobes are lighter and easy to install
- Easy to maintain, needs little servicing
- Oil changes not necessary
- Low shaft deflection, less wear
- Long service life due to patented InjectionSystem
- DLG award with top marks

Mentioned Vogelsang product

[GL series: The gearless rotary lobe pump](#)



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