



BackPac: Precise application with the Vogelsang BackPac

Case Study: Fratelli Bizzoni agricultural business



Problem

Uneven distribution of manure, resulting in wavy plant growth

Solution

Vogelsang BackPac supply system delivers precise output

The customer and the problem

Paolo Bizzoni, owner of the Fratelli Bizzoni farm in Caravaggio (Bergamo), Italy, cultivates approximately 290 hectares of arable land. Around 12,500 animals weighing between 40 kg and 160 kg are fattened there on a contract basis. The resulting digestate (approx. 60,000 m³/year) is separated and used to cover over 80% of the fertilizer requirement on the fields. Until now, the manure has been spread using a spray plate method – a solution that:

- causes uneven distribution and wave-like plant growth
- creates emissions and feed contamination
- especially in dry periods impacts the rapid availability of nutrients to plants and feed quality



The solution

Paolo Bizzoni opted for the Vogelsang BackPac supply system with a working width of 15 m, combined with an umbilical cord system and the ExaCut ECL precision distributor. The system delivers highly precise distribution, as Paolo emphasizes:

“I chose Vogelsang because the 15-meter BackPac dribble bar coupling offers the perfect combination of lightness and efficiency for a supply system.”

– Paolo Bizzoni, owner, Fratelli Bizzoni agricultural business



Vogelsang BackPac

The result – visible in the first year

The advantages of the Vogelsang BackPac were clearly noticeable in the first year after the changeover. The winter barley achieved a yield of around 4.5 tons per hectare – with moisture levels well below average. At the same time, plant development was uniform across all areas. “After so many years, we finally have fields that are as smooth as billiard tables!” reports Paolo Bizzoni enthusiastically. In addition to the visible improvements, the farm has also increased its efficiency and achieved noticeable savings in operating resources and costs.

Advantages of the BackPac

- Uniform slurry distribution, even under dry conditions
- Increased crop yields, especially for winter cereals and corn
- Reduced fertilization costs, as the fertilizer comes mainly from the farm’s own raw materials
- Minimized emissions and virtually no plant contamination
- Optimized use of fermentation residues thanks to fermenters in the biogas plant
- High area output thanks to 15-meter working width

Mentioned Vogelsang products

[BackPac: Dribble bar and trailing shoe system for umbilical systems](#)



Mentioned Vogelsang products

[ExaCut ECL: Slurry macerator with maximum reliability](#)



Vogelsang Ireland Ltd.

Unit 3, Liosban Business Park | Tuam Road
Galway H91 H63P | Ireland
Phone: +353 91 394 570 | ireland@vogelsang.info

vogelsang.info/ie

