



BAUER

FOR A GREEN WORLD

Press information

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AGRITECHNICA 2013:

Bauer sets new standards in slurry injection

The CerresX slot slurry injector guarantees an efficient and environmentally-friendly application of liquid fertilizers

Environmentally-friendly injection technology is the name of the game in modern slurry application. The Bauer Group from Voitsberg – the Styrian specialist for all stages in the processing of liquid fertilizers – offers customized solutions for this purpose. The CerresX slot injector helps farmers make the most out of their available nutrients and reduce odour emission.

Nitrogen is a valuable asset in agriculture. Though this platitude may not be new, it is all the more true in times of rising prices for chemical fertilizers. Farmers who can cover their needs in plant nutrients from their own stall and can largely meet their demand for fertilizer with slurry can consider themselves fortunate. But even in such a case, efficiency is a top priority. „In comparison with spreading, the slot method can double the nitrogen effect“, explains product developer Gernot Pauger of the Bauer Group. While only 10 per cent of the nitrogen content becomes available with conventional methods, the slot injector delivers 85 per cent directly at the plant. In addition, injecting the fertilizer into the ground reduces odour emissions, leading to greater acceptance in modern agriculture. On pasture land, this has a positive effect on the cleanliness of the harvested crop, improving the quality of the fodder and livestock health.

The engineers at Bauer Group concentrated all their efforts on developing a slurry injection device that would unite all advantages. This concept should be applicable both on pasture and on farm land. The basic requirements during development were injection in an exact depth, adjustability to uneven soil, and minimum tractive forces in combination with the smallest possible damage to the surfaces. At the same time, all familiar drawbacks should be avoided as much as possible.

CerresX is a milestone for Bauer

The robust design of the attachment for the proven Bauer slurry tankers allows for its operation under extreme conditions and in continuous use, as required in the case of service supply agencies. The two blades for each injector unit are mounted on a pneumatic spring swivel joint. Using a special cylinder, the joint is responsible for the variable adjustment of contact pressure, rotation, force absorption, and blade guidance. The Bauer Group holds the patent for this system. „Thanks to pneumatic compensation, the blades react immediately to avoid bumps on the ground. This allows for a high driving speed while requiring little power“, says Pauger. At the same time, the application of large quantities increases the impact of the slurry application. Adjusting injection up to a work depth of eight centimetres could hardly be simpler.

Technical improvements in preparation

Working widths of 6 or 6.80 metres featuring 30 and 34 blade nozzle units, which open the soil every 20 cm to inject the slurry, are now in preparation. A unique feature that Bauer also filed for patent is the pneumatic DropStop valve at each nozzle, which avoids dripping when the device is detached. Each of these maintenance-free valves has a hydraulically optimal shape which prevents clogging. „In addition, a closing wheel can be mounted on an oscillating axle behind each unit, which will seal the slot, thus further improving the quality of the result“, explains Bauer’s product developer.

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Image caption: Bauer CerresX slot slurry injector

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The Bauer Group at a Glance

Since its foundation in 1930, the BAUER Group - headquarters in Voitsberg, Styria, has been focused on irrigation and slurry management technology. Whilst initially producing wastewater and slurry pumps, the company first became an international player in the sector of irrigation technology in 1947 with the patent-protected Bauer lever lock coupling - named after Rudolf Bauer, the company founder. Today the company is developing rapidly in the biotechnology sector with wastewater treatment & biogas plants and it is focusing on three main sectors: irrigation management, waste management as well as energy management.

BAUER is the Global market leader in irrigation technology: A total of more than 2,5 million hectares is globally irrigated. A major part of sales representing 50% of the total turnover is achieved in the sectors of slurry and environmental waste processing. The BAUER Group exports to more than 90 countries of the world. With approx. 530 employees, Bauer made a turnover of about 167 million Euros in 2011/2012. With an export ratio of 90%, the main markets of the BAUER Group are Germany, France, the CEE countries, China, the USA, South-America and Australia.

The BAUER Group currently consists of 17 companies worldwide.

Product Range

- Various irrigation systems
 - Automated pivot and linear systems, i.e.: Centerstar, Centerliner, Linestar
 - Irrigation machines, i.e.: Rainstar, Duostar, Rainboy or ProRain
 - Traditional irrigation, i.e.: pipe systems and solid-set plants
- Slurry transportation (slurry tanks)
- Innovative slurry treatment: mixers, pumps, separators, composting and distribution
- Pipes and fittings
- Wastewater treatment and separation technology for the food and paper industry
- Components for Biogas plants
- BRU Bedding Recovery Unit

Internet Services

- Configuration of all machines
- Ordering of all spare parts

For further information see: www.bauer-at.com

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