

Press Release

Voitsberg/Schaufling/Hannover, November 2013

AGRITECHNICA 2013:

Eckart presents an axle assembly specially for polyester tankers

Hydro-pneumatic axle assembly increases safety and lowers soil impact

The liquid manure specialist Eckart from Schaufling, Bavaria, a member of the Austrian Bauer Group, is presenting a new hydro-pneumatic axle assembly with high carrying capacity that was developed specially for polyester tankers. Together with BPW (Bergische Achsen KG), the company is now entering into this segment with its own solutions.

The hydro-pneumatic axle assemblies available on the market to date have proven less than optimal for use with polyester tanks since these require chassis superstructures that differ significantly from those of steel structures. An entirely new concept was developed in order to maximize stability and dynamic characteristics while in motion. This concept is based on the individual suspension design from Eckart and gives particular consideration to the way forces need to be transmitted through the frames of polyester tankers. Since there are no continuous axles in this true independent suspension, the tanker applies a uniform bearing load to all wheels.

The new concept combines safety and comfort for road use up to 60 km/h as well as off-road, where the spring travel compensation ensures ideal driving characteristics. The design is dimensioned for maximum carrying capacity and large tires since these are required by top contract processors and large industrial operations to ensure the lowest possible soil compaction with maximum tank volume. For contract processors, this represents a critical advantage over other units.

The hydraulic cylinders are not attached to the side of the frame, as in typical systems, but are instead run under the frame. This allows a larger steering angle and reduces tire wear. The hydro-pneumatic unit is technically superior to typical pneumatic shocks and offers roll

stiffness thanks to the differential cross-connection of the cylinders. This keeps the unit parallel to the slope during off-road use on embankments and allows roll vibrations to dissipate quickly while on the road. Both aspects significantly improve the driving safety.

In series-produced tankers from Eckart, the HP assembly is equipped with a controller that automatically regulates cross-connection, level control and load states. The level control is thereby kept independent of the load. However, this can also be modified manually without gradations via the mode switch. The hydro-pneumatic independent suspension unit is available in the liquid manure tankers of Bauer and Eckart.

Visit us at Agritechnica from November 10th to 16th in
hall 16 (liquid manure) – stand no. C 17!

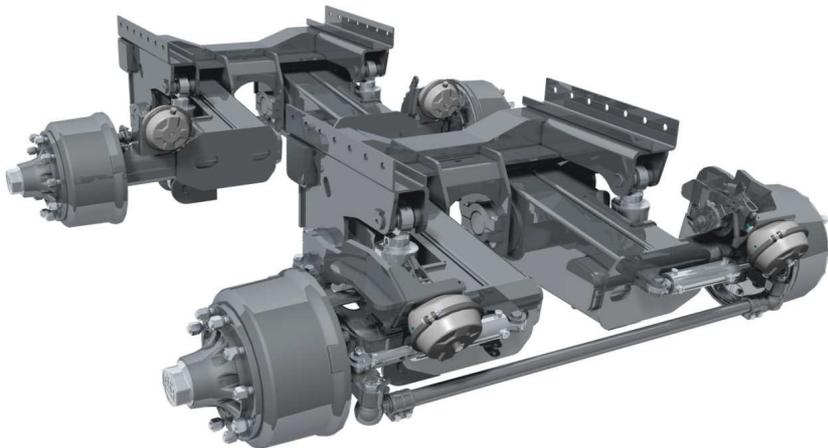


Image caption: Hydro-pneumatic independent suspension for professional grade liquid manure tanks

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<http://www.melzer-pr.com/newsroom.htm> -> right "Bauer Group"

The Bauer Group at a Glance

Since its founding in 1930, the BAUER Group – with headquarters in Voitsberg, Styria, – has 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 is focused on three main sectors: irrigation management, waste management and energy management.

BAUER is the global market leader in irrigation technology: In total, over 2.5 million hectares are irrigated around the world. A major portion of sales, representing 50% of the total revenue, 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 earned roughly 167 million euros of revenue 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 and www.eckart-maschinenbau.de

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