



# BAUER

*FOR A GREEN WORLD*

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## Press Release

Voitsberg/Hannover, November 2013

AGRITECHNICA 2013:

### **State-of-the-Art Technology for Bauer Slurry Tankers**

What luxury yachts and Bauer polyester tankers have got in common:

**Glassfiber composites which are standard in shipbuilding, have been used in the slurry tanker construction for a long time as well. Without these hand-made fabrics of finest glassfibers, the polyester tankers would not be able to bear the heavy loads. The topical flagship of the Bauer Group is the "Poly 260 TRI" – a three-axle polyester tanker with a capacity of 26,000 litres and a working width of up to 36 m.**

#### **Tanker with Heart**

Eckart Maschinenbau company is Bauer's specialist for polyester tankers. They became member of the Bauer Group in 2003 and they are manufacturing composite polyester tankers with a capacity of 10,500 to 26,000 litres in the Bavarian city of Schaufling.

#### **Glassfiber Technology**

The glassfiber fabric is incorporated into the plastic by hand. This so-called hand-laminating procedure ensures that every part of the tanker has got an optimal thickness of wall. Moreover the Eckart tankers have got a special heart-shaped cross section which would be difficult to produce by machine, explains Thomas Perlik, product manager in charge at Eckart Maschinenbau GmbH. This heart shape construction allows for an extremely low centre of gravity.

#### **Special Coating**

As in modern yacht building, the Bauer flagship is finished with a so-called Gelcoat coating providing a smooth, easy-cleaning surface. Gelcoat makes the plastic UV-resistant and protects it against damages. "Eckart has been using the Gelcoat coating for 8 years and we have become market leader in this field," emphasizes Perlik.

## **Powerful Pumps**

The Bauer Group has been relying for years on the robust spiral pump technology offering longer service life in the slurry tanker than any other displacement pump. The pump capacity is staggered according to the tanker size, and pumps with a capacity of up to 7,000 l/min are available. In addition Bauer produces a centrifugal pump with a capacity of up to 5,000 l/min at their own premises.

## **Travelling Gear**

A 26,000 litres tanker is a considerable challenge for the frame and the axles. Bauer has been producing since decades the tandem steering axle aggregates and disposes hence of the required know-how and experience. The TDASL aggregate launched in 2010 has become an established big seller in the meantime. In 2013 Eckart presents a new hydro-pneumatic axle aggregate with high load bearing capacity designed especially for Polyester tankers. Its special features are single-wheel suspension allowing for an optimal ground pressure distribution, a new arrangement of cylinders for a bigger steering angle of the tires and the hydro-pneumatic control. This new control system together with the differential cross gear ensures the slope parallelism of the tanker on side slopes and on the road it improves driving safety by fading off quickly any rolling oscillations.

## **Trend setting distribution technology**

Today's manuring is not imaginable without slurry distribution at ground level and/or injection technology which are indispensable for an environmental fertilization. In the past few years, the Bauer Group has sophisticated the distribution technologies so that they offer a wide-spread professional product range. In addition to the well-established distribution technologies at ground level such as hose applicator and trailing shoe applicator technology, the Bauer Group also offers trench technology such as the Bauer slurry trench machine CERRES-X applied for patent and injection technologies such as the harrow cultivator CERRES-G and the short disc harrow CERRES-S.

Visit us at Agritechnica from November 10<sup>th</sup> to 16<sup>th</sup> **hall 16 (slurry) – booth C 17!**



Image caption: Bauer slurry trench machine CERRES-X

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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](http://www.bauer-at.com)

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