



# SEPARATOR

A BAUER Group company

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## Press release

Voitsberg/Marktschorgast/Hannover, November 2013

AGRITECHNICA 2013:

### Cattle Bedding Material Made of Slurry With BRU concept FAN is boosting recycling on farms

**Slurry is not only valuable manure – innovative milk farmers are gaining best bedding material from indigestible fibers in the slurry of their animals. The BRU concept (Bedding Recovery Unit) developed by FAN Separator GmbH, an affiliate of the Austrian ecotechnology company Bauer, serves to separate, to dry and to hygienize undigested fibers from the slurry giving rise to a cycle on the farm that results in cost reduction and highest milk output.**

FAN Separator from Marktschorgast in Germany has been working for more than 25 years in the separation technology for agriculture. Since 2005, the BRU concept has been put into practice. Up to now many installations in the US, Russia, China and Hungary are operated successfully and at the highest satisfaction of their owners.

#### **Ideal Bedding Material**

A heavy milker cow wants to be bedded well. The choice of the appropriate bedding material is not at all trivial. All materials have got their advantages and disadvantages: Straw involves an unknown germ contamination and high storage costs. Sand is badly absorbent and entails big wear and hence high expenses. Wood chips are rather expensive and not always available. All these materials have got in common that they must be brought to the farm first and be disposed of afterwards involving further expenses. Those who can afford, still opt for sleeping mats with the usual problems. "BRU bedding material shall combine all advantages", affirms FAN. "BRU is low-priced, fresh and available every day, well absorbent, of perfect hygiene and of constant quality and it is readily accepted by the cows."

## **The BRU Concept**

It is worth to take a closer look at the BRU concept: BRU is synonymous of recycling and fresh bedding material every day – directly on the farm. No need for additional storage space and reduction of the amount of solid matter in the slurry and of the slurry volume.

## **Fully Automated**

First of all, the slurry is pumped from the collecting basin into the press screw separator where the undigested fibers are separated from the liquid fraction. Then the material is conveyed through a drum of 10 m length by means of a special patent-protected conveying system.

## **Compost-Drying**

It takes the material about 10 to 12 hours to pass this cylinder. During this period, microorganisms are acting on the substance. Through aerobic process, the temperatures inside the drum rise to more than 65°C to 75°C so that the material is not just dryer but also becomes hygienically perfect. “The biological hygienisation process is some sort of fast composting”, mentions the Managing Director Heimo Wiesinger from Bauer.

## **Germfree**

At temperatures of 65°C to 75°C inside the drum, almost 100 percent of all pathogenic germs are destroyed which cause mastitis at milk cows. The inflammation of the udder involves huge economic damage to milk farmers again and again. Fresh germproof bedding material is one of many prerequisites for a high milk output.

## **Fresh Every Day**

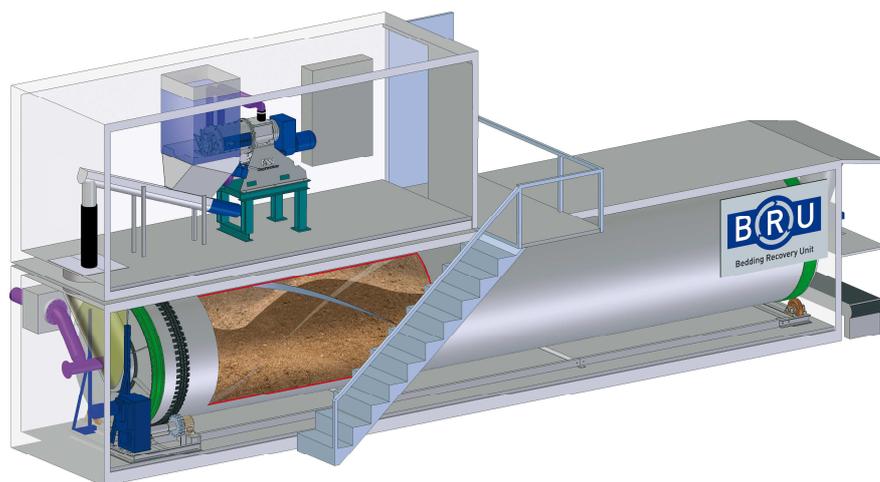
The biologic process inside the drum is monitored and controlled by means of temperature metering and the airflow rate. At the BRU's output the material has got a dry matter content of 40 to 42%. By means of conveying facilities, the bedding material is transported into an intermediate stock – up to 48 m<sup>3</sup> of bedding material can be produced per day. With this bedding material up to 2.000 cows can comfortably be supplied.

## **Summary of BRU advantages:**

- + Dry and absorbent bedding material
- + Fresh and available every day
- + Top hygienic quality
- + No expenses for bedding material
- + Considerable reduction of storage costs

- + Less expenses for slurry treatment
- + Easy manipulation
- + Constant quality
- + Ecologic cycle
- + High acceptance and animal's welfare increase milk output

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



Legend: FAN Bedding Recovery Unit

**Downloadarea for press releases and photos:**

<http://www.melzer-pr.com/newsroom.htm> -> on the right-hand side „Bauer Group“

**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) and [www.fan-separator.de](http://www.fan-separator.de)

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