

# AGRICULTURE™

TRADE MAGAZINE

YOUR GATEWAY TO THE MIDDLE EAST AGRIBUSINESS



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Photo courtesy: Bauer Group

## NEW BAUER IRRIGATION SYSTEMS SAVE WATER AND ENERGY

With its pivot and linear irrigation systems, the Austrian rain specialist Bauer has launched an optimal solution for purposeful utilisation of resources. For example with this technology Bauer has landed a substantial order for 250 big irrigation systems from Iraq. Since its foundation in 1930 the Bauer Group has been focused on irrigation and slurry management technology. From agriculture to the chemical industry passing by biogas- and bioethanol plants



and the food processing industry, the press screw separator PSS made by FAN, a Bauer Group company, covers a wide range of applications. This pioneering innovation serves to separate waste into its solid and liquid fractions.

### Bauer expands the application versatility of Pivot Irrigation Systems

Bauer is the longest established global producer of irrigation technology operating on an international level. Thanks to the distribution of small water quantities at ground level, there is insignificant evaporation or seepage. 90% of the humidity

are directly available to the crops with the linear systems. A special polyethylene coating is applied to all water exposed components of the irrigation system, allowing use with liquids which otherwise cause corrosion to standard steel pipes. For this reason these systems can now be used for irrigation of wastewater of the sugar industry, also process wastewater of the food industry. This special production is available in diameters of 203 and 168 for both linear and pivot systems. Bauer now offers a unique irrigation system covering practically all fields of use, including aggressive media.

Bauer also has developed a GPS control named "PRO G Module": Via satellite, the GPS control unit constantly monitors the position of the irrigation system. The data logged can now be transmitted at any time to other data media via an installed modem. A major advantage is that all these technical improvements are available at almost the same price as the original electro-mechanical control systems.

#### **FAN Press Screw Separator for Industrial and Agricultural Use**

The secret of versatility of the press screw separator PSS is its adaptability to considerably varying dry matter contents. Hence it

ensures optimal processing of both thick and thin fluid substrates (with a dry content of 20% respectively 0,1%). In addition the composition of the solids gained can vary in the range of 25 to 55% of dry matter content by means of a patented output regulator using counterweights of different quantity and position. This procedure allows to obtain the requested consistence of the final product for further storage, for the use as fertilizer or as basis for compost. The liquid fraction can be discharged easily via pipelines and hose systems. Compared to traditional separation systems, huge savings of time and cost can be achieved.

Efficient waste management is becoming more and more important for industrial units. Wastewater from the pulp- and paper industry needs to be separated in order to recycle substances, to clean and to compact them. Moreover dewatering and cleaning of liquids is of eminent importance in plastics recycling as well. Abattoirs make extremely high demands on the quality of their cleaning systems which must cope, for instance, with the content of rumina, tannery wastewater, byproducts of animal carcasses and coagulated blood. Depending on the type, 40 to 100 m<sup>2</sup> of manure substrate can be processed with the FAN press screw separator.



### Quality Irrigation Systems

High efficiency, low energy consumption, precise control systems – BAUER is the world technology leader in the field of overhead irrigation management: more than 1.5 million hectares of land are irrigated by BAUER systems across the world.



FOR A GREEN WORLD

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



### Innovative solutions for separation

FAN – the specialist in efficient effluent management!  
The new Press Screw Separator produces Bedding material with a dry matter content of up to 36%.

A BAUER Group company



SEPARATOR

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