
+ SEPARATOR PSS8

+ SEPARATOR PSS8 GREEN BEDDING™



SEPARATOR

A **BAUER GROUP** COMPANY



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WASTE WATER TREATMENT

SEPARATOR PSS8

THE NEW DIMENSION OF SEPARATION.

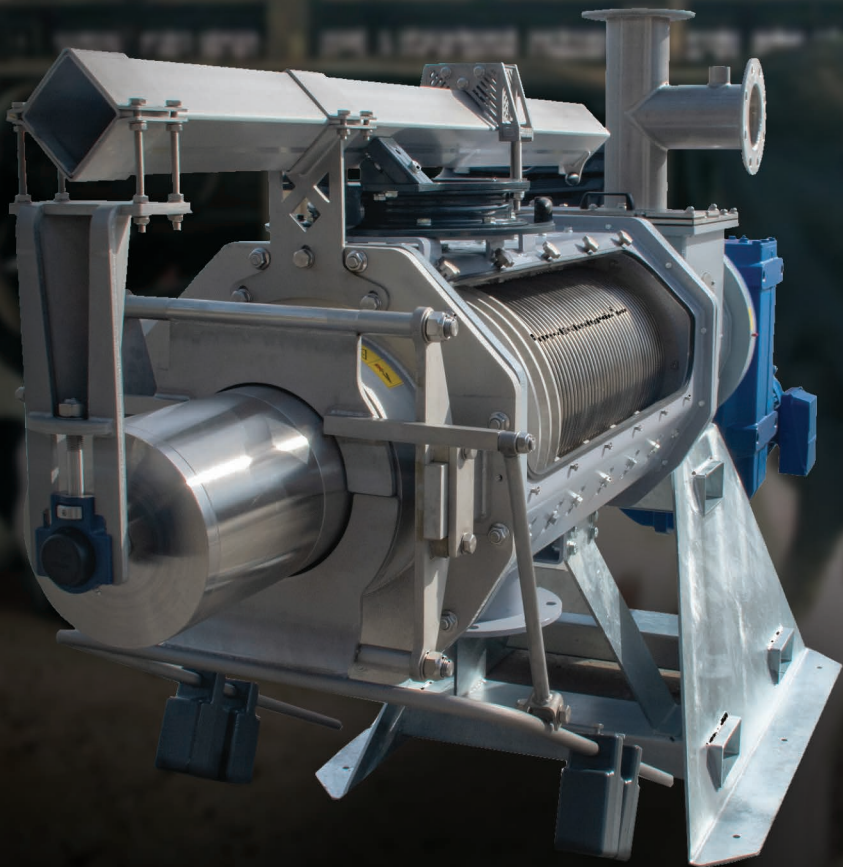
WWW.FAN-SEPARATOR.DE

SEPARATOR GREEN BEDDING™ PSS8

FAN PRESS SCREW SEPARATOR PSS

ADVANTAGES

- + Dry matter content up to 36% in solids, when separating cattle manure.
- + High dry matter content even at high throughput rates.
- + Low energy consumption
- + Press screw and screen made of stainless steel.
- + Long life of the auger due to hard metal coating.
- + Permanent cleaning of the screen by the auger.
- + Easy to maintain.



THE NEW DIMENSION OF SEPARATION



With the PSS8 FAN expands its product portfolio and takes a further step towards sustainability. Due to its considerable dimension and throughput capacity, the PSS8 can replace two or more machines on large scale farms. This not only reduces energy consumption but also the space requirement and the effort in connection with peripheral equipment such as pumping stations.

EFFICIENT MATERIAL SUPPLY FOR OPTIMAL SEPARATION

The FAN Separator is typically supplied with raw material via a pump from a feed pit. Alternatively, material can be introduced through a hopper—depending on the consistency of the material and local conditions. In the inlet area, a patented oscillation unit ensures uniform material delivery. This leads to a significant increase in throughput, especially with highly viscous media.



HIGH-PERFORMANCE SOLID-LIQUID SEPARATION

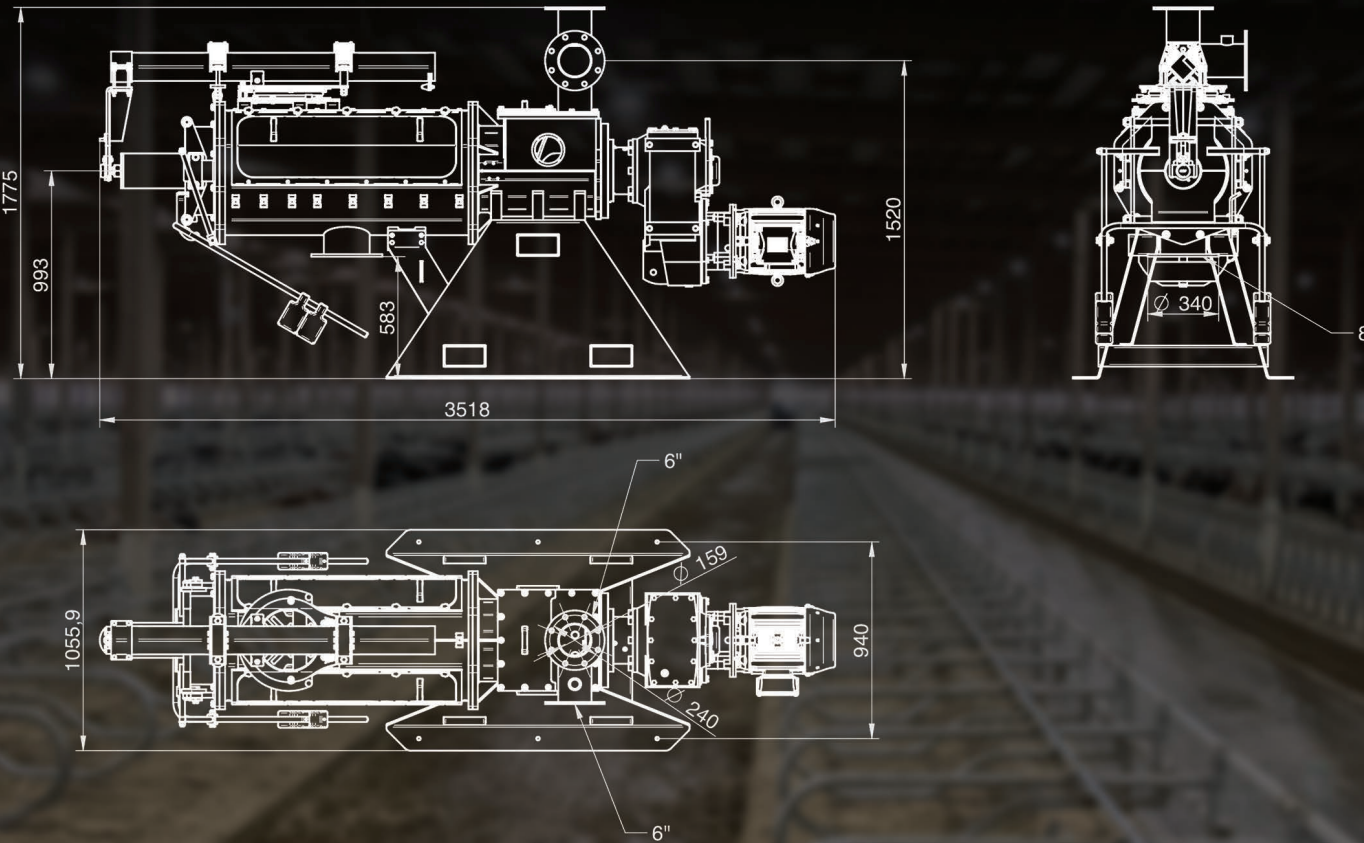
The FAN Separator ensures efficient separation of fibrous solids from liquids using a wedge wire screen. The fiber material forms a natural filter layer that captures even fine particles. A self-cleaning screw transports solids to the discharge while continuously renewing the filter surface-ensuring consistent performance.

Tight screen tolerances prevent clogging. As solids concentration rises, internal pressure is precisely controlled by a patented discharge regulator. This creates optimal backpressure for final dewatering and allows flexible adjustment of the dry matter content via adjustable counterweights.

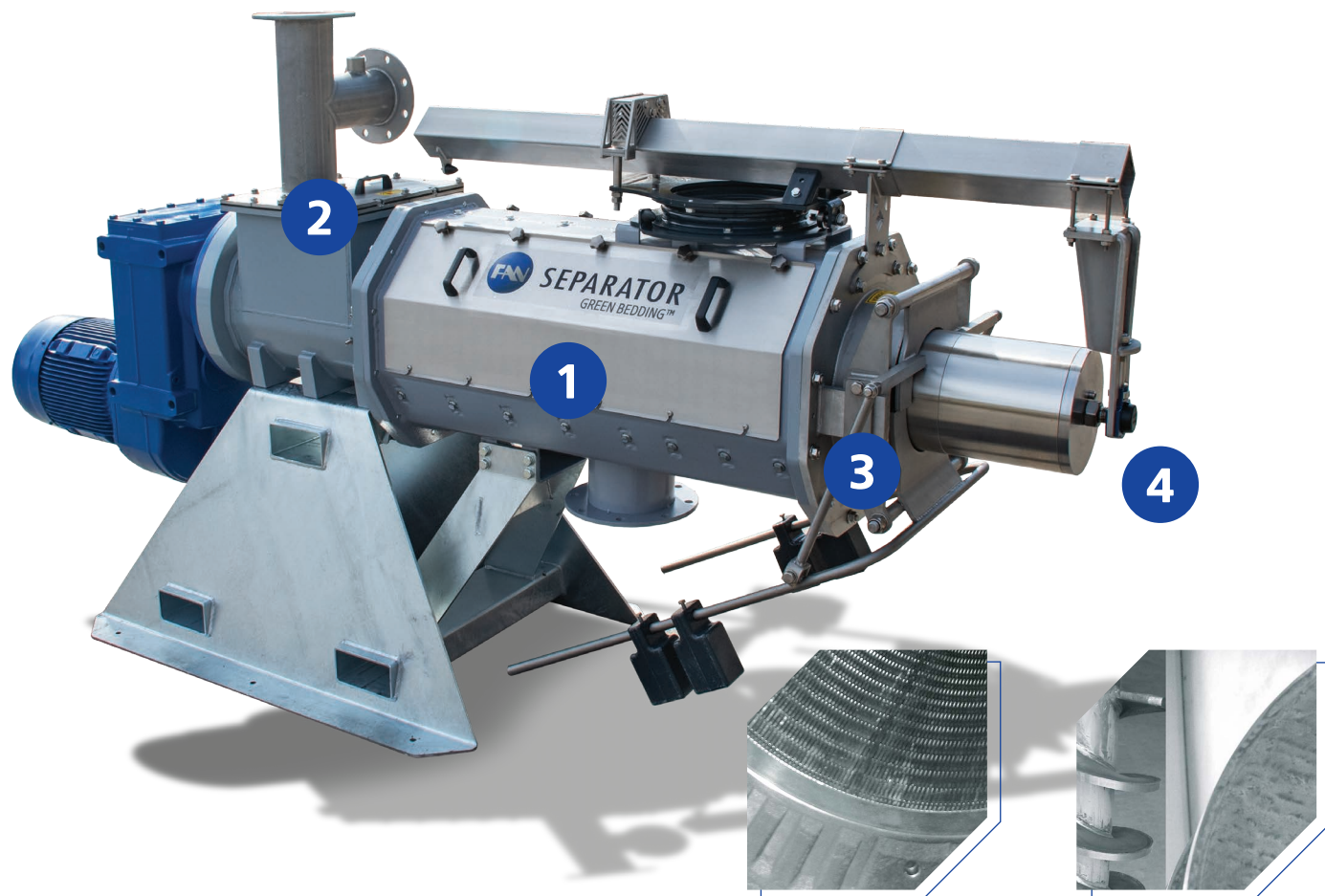
	Separator Green Bedding™ PSS8	Separator PSS8
Throughput m³/h*	up to 180	up to 250
Dry matter content %	up to 36	up to 34
Input power kW	30	22

Screen size mm 0,75 / 1,0 0,5 / 0,75 / 1,0

*Concerns hydraulic flow rate with water. The actual throughput depends on the material to be separated, inlet consistency and screen gap width



THINKING SMART



**SPECIAL WIPER
RIBS AND SCRAPER
SCREWS**

**HEAVY-DUTY AUGERS
FOR ALL USERS**

01. FLOATING SCREEN

The floating bearing absorbs axial and radial movement and therefore, increases the service life of the screen and reduces wear to a minimum.

02. SPECIAL WIPER RIBS

Long fibers contained in the medium are shredded thanks to the special scraper ribs and screws to minimize clogging further downstream. This guarantees a constant and optimal throughput.

03. FOLDABLE MOUTHPIECE

Regular maintenance ensures the performance and longevity of the machine. It is essential that it can be carried out with little effort. For this purpose, the PSS8 is equipped with a hinged mouthpiece that allows quick access to the screen housing.

04. HIGHLY RESISTANT AUGERS

The screw is the heart of the FAN separator and decisive for the service life of the machine. The screw of the PSS8 is equipped with a particularly wear-resistant armour. Maximum resistance and long service lives are thus guaranteed.

SEPARATION SOLUTIONS FOR PROCESSING INDUSTRIES AND AGRICULTURE

MAIN APPLICATIONS AND BENEFITS

BIOGAS



APPLICATIONS

- + Solid-liquid separation before and after biological treatment
- + Disposal of the solid fraction with reuse of the liquid
- + Pre-filtration before the digester

BENEFITS

- + Improves digester efficiency by preventing inert materials from reducing its capacity
- + Enables the production of more homogeneous liquid fertilizer and compost

FOOD



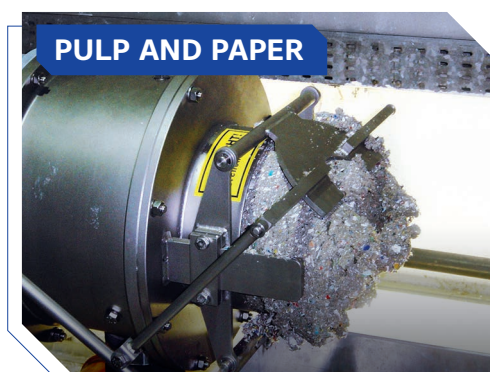
APPLICATIONS

- + Wastewater treatment and fiber recovery
- + Water treatment in meat processing
- + Water treatment in fruit and vegetable processing

BENEFITS

- + Generation of by-products from wastewater treatment
- + Reduction and simplification of waste, with decreased odors and rejects

PULP AND PAPER



APPLICATIONS

- + Pre-cleaning of wastewater streams
- + Water circuit cleaning in filtration systems
- + Cellulose recovery

BENEFITS

- + Reuse of raw materials and wastewater
- + Waste compaction

AGRICULTURE



APPLICATIONS

- + Lagoon cleaning
- + Composting of solids
- + Additional treatments of liquid manure

BENEFITS

- + Reduction of volume, odors, and nutrients
- + Reuse of solids as bedding and liquids for washing and fertigation



PRODUCE YOUR OWN BEDDING

PSS8 GREEN BEDDING™

The FAN Separator PSS8 is the ideal solution for producing fresh, high-quality Green Bedding™ directly on site—efficiently and safely. Liquid manure is transformed into hygienic, bio-based bedding material. Studies show: When handled correctly and with a dry matter content above 34%, there is no increased risk of mastitis.

COST-EFFECTIVE AND PRACTICAL

Green Bedding™ reduces reliance on external bedding materials like straw or sawdust. No pathogens or excess nutrients are introduced, and production is demand-driven—eliminating the need for large storage areas. After separation, the slurry becomes more fluid, easier to handle, and overall volume is reduced.

ANIMAL COMFORT, IMPROVED PERFORMANCE

Cows prefer the soft, absorbent texture of Green Bedding™. It retains moisture better than straw, produces less dust, and is gentle on joints and skin. The result: clean animals, longer resting times, and higher milk yields. Maximum Cow Comfort Green Bedding™ is well accepted by cows and often preferred over sand or rubber mats. Its superior moisture retention and low dust generation contribute to healthier skin and joints—minimizing abrasions and injuries. All these benefits lead to extended lying times and increased productivity.



PRODUCTS FROM OUR SLURRY PROGRAM



MSXH
Submersible motor mixer



SEPARATOR SPS
Sludge press for municipal and industrial waste water



SEPARATOR PSS
Press screw separator for solid-liquid separation



SEPARATOR PLUG & PLAY
System for portable slurry separation



MAGNUM CSPH
Submersible motor pump gear unit design



HELIX DRIVE
Eccentric screw pump



BRU
Bedding Recovery Unit produces fresh bedding from slurry



WE GO BEYOND.



SEPARATOR

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