



**Agrometer**

# **SLURRY SEPARATION**

**MORE OPPORTUNITIES WITH YOUR FARM**





# MORE OPPORTUNITIES

**Slurry separation gives you more advantages and opportunities in your animal production**

With a simple yet sturdy construction, the AGM Screw Press is very suitable for separating any type of liquid slurry.

The AGM Screw Press is available in two sizes, and optional equipment ensures an optimum work flow.

Service and maintenance of the AGM Screw Press is quick and trouble-free: Simply flip back the top of machine, and you have access to auger and filter which can be removed by hand. The filter can be changed likewise, hereby adjusting the fiber amount.



# OPTIMIZE

## ... THE USE OF SLURRY

If you dispose the separated dry fraction from your farm, you also remove the proportion of the organic N and P.

It gives you various options to optimize your operation and can help optimize the right nutrients.

It is confirmed that the AGM Screw Press from Agrometer is one of the most efficient solutions for separating fluid and dry matter.

The fibres can be removed in several ways:

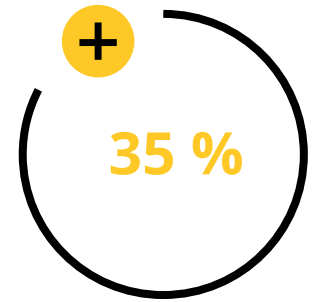
- **Biogas and incineration plants**
- **Structured matter for horticulturists**
- **Bedding material for cowsheds**

Slurry separation is an obvious solution for a number of challenges in your daily operation - and typically you will have more benefits at the same time:

- **Reduce the delivery rate of phosphorus**
- **Reduce the need for slurry agreements**
- **Save dry matter for energy production**
- **Easier handling of liquid slurry**
- **Less costs for trade fertilizer**
- **Produce bedding material for cowsheds**
- **Improve the possibility of full fertilization**

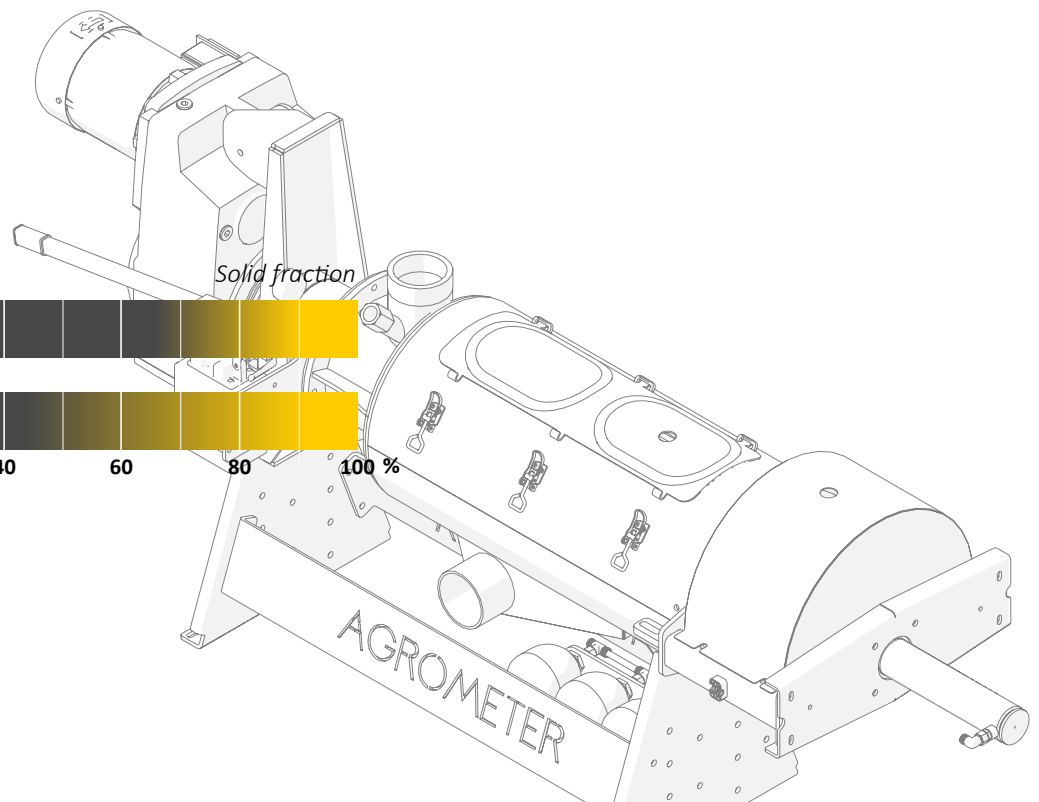
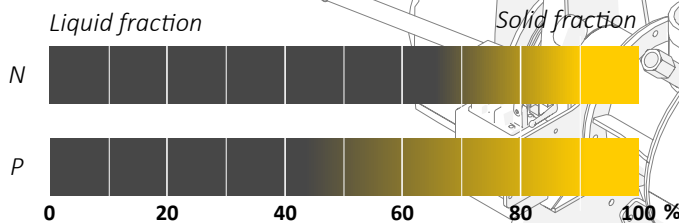
Agrometer will supply you with the complete solution, including necessary pumps and mixers.

- Mechanical separation
- Simple and reliable machine
- High capacity, up to 30 m3 (cattle) and 40 m3 (pig) per hour
- Filter closeness 250-1000 my
- Removes organic nutrients
- Dry matter up to 35% in fiber
- Easier stirring of pits/lagoons
- Lower operating costs
- Low power consumption
- Minimum wear with just 24 rpm on the special customized AGM screw.
- 7,5 kW engine



**IN FIBER**

#### Pig slurry:



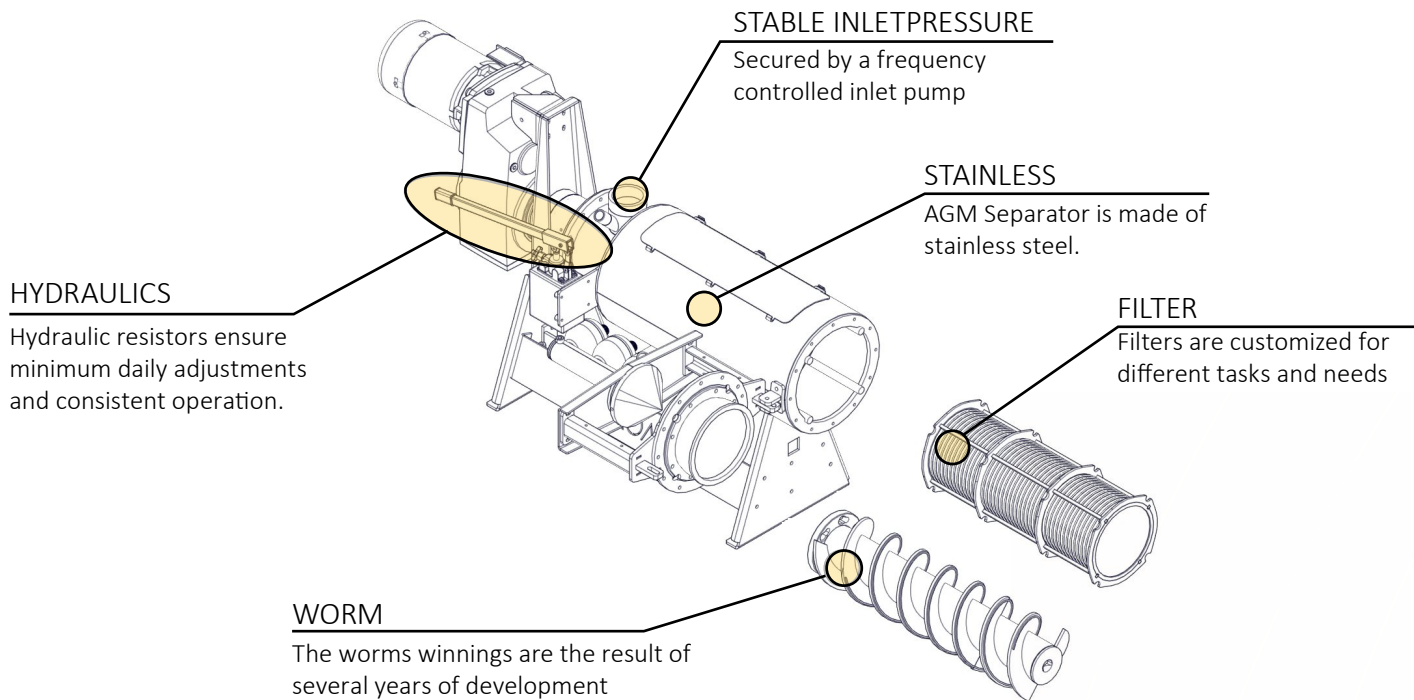
## SLURRYFIBERS AS STREWMATERIAL

Slurry fibres from cattle slurry is a fantastic bed material, which gives the same improvements in yield and welfare as sand.

At the same time you save money on the slurry handling, and as the

fibres doesn't wear on the shed like sand, you save additional money on maintenance.

Furthermore the production costs lets you use more bed material without major additional costs.



After separation, the liquid slurry is much easier to handle, because it becomes much more easy flowing.

Stirring up your pit is done quicker and sedimentation is practically removed, and you can raise the efficiency on your slurry tanker up to 25%, simply because loading and unloading is done faster.

In addition, the slurry is also absorbed faster into the ground, and this helps the crops to utilise the nutrients.

## EASIER PUMPING AND HANDLING OF THE SLURRY





## SEPARATION

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### STANDARD FEATURES


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- Controlling of pump, mixer, separator and reject water pump in one control board.
- Delayed start-up of different units in order to lower inrush current
- Operation start delay from 0.5 - 24 hours
- Control of reception pit mixer (control only - no power supply), both pre-operation and during operation
- Control of existing reception pit mixer (control only - no power supply)
- Reversing of worm to clean filter
- Automatic on/off control of unit through reception pit float switch
- Emergency stop
- Control of reject water pump in reception pit by float switch
- Control of reject water pump mounted directly on separator
- Control of external reject water pump (control only - no power supply)
- 2,8" color display
- Power monitoring and display of kW consumption
- Controlled shutdown, frost protection of separator
- Timer for operation hours, continuous operation possible



### OPTIONS

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- Controlling conveyor for dry matter
  - Controlling two separators in one board
  - Connecting two boards (4 separators)
  - Infrared sensor for distance measurement (used with conveyor and reject water pump)
  - Modem for remote support (local SIM card is required)
  - Modem for sending SMS with error codes (local SIM card is required) and remote support (subscription required))
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## System control

Unique control, not only for the separator but for the entire system

Agrometer have developed a control system which controls the complete separation process, including stirring of the reception pit, pumping of slurry to the separators, pumping of reject water and conveyors for the dry matter.

Easy operation with display.

Build-in safety systems for the entire unit.



### SEVERAL WAYS OF INSTALLATION

The AGM Screw Press can be installed in many different ways, thus it is also possible to find a set-up which is suitable to your conditions.

If you want to use the separator in more than one place, it can be delivered as a mobile unit, which is easily and quickly connected and disconnected.

The plant can also be built into a frost-free container. This means, among other things, that you do not have to apply for a building permit when establishing the separation plant.

### EXTENSIVE RANGE OF SUBMERGED PUMPS AND MIXERS

Extensive Range of Submerged Pumps and Mixers

At Agrometer you will also find an extensive program of submerged pumps and mixers, which are very suitable in connection with separation units.

The efficient chopper pumps grinds fodder remains and straws in the slurry, and are available from 2.2 up to 18.5 kW.

Mixers are available from 2.2 - 18.5 kW For both pumps and mixers, an extensive range of brackets and fittings makes it possible to design the installation in many different ways.



### **SUBMERGED PUMP**

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With its efficient knife system, the AGM submerged pump, among other things, feed residue and straw in your slurry. The pump operates with a solids content of up to 12%, at a pH value between 5 and 12. Maximum liquid temperature = 40 °. Enclosure class = IP68. The pump is for vertical and horizontal installation, and comes with different types of installation accessories.



### **MIXER**

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Very suitable for mixing and stirring tasks within slurry and sewage etc.



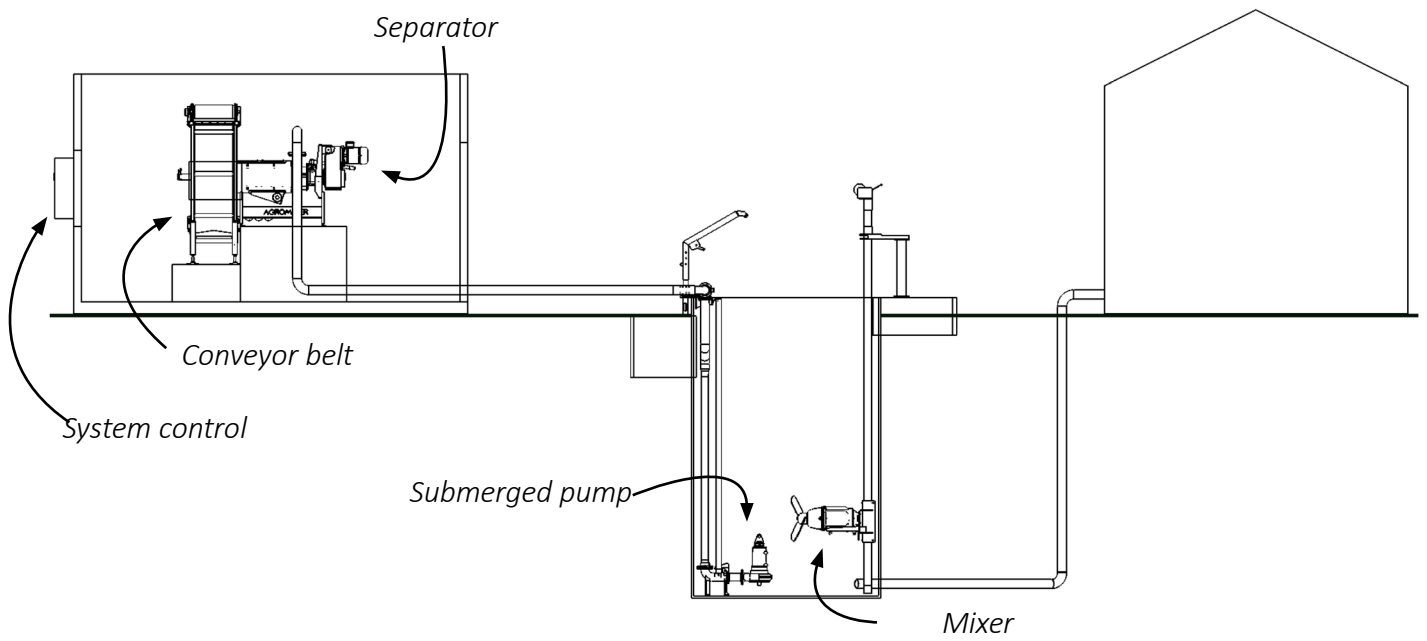
### **CONVEYOR BELT**

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Large program, with the possibility of customized solutions.









## WE ARE BESIDE YOU ALL ALONG

A high reliability of operation is the condition that gives you the wanted outcome, and makes you sleep well at night. At Agrometer you are met by a competent service department which offers both technical support on the phone, and swift response to emergency callouts.

Together with a comprehensive spare parts stock, it means that we keep your works running right from the point of installation to that day in future, when it has served its time.

Get in touch, and experience how we create value for you.

**No job is too little, but all are important**

## OUR BUSINESS AREAS

Agrometers product range and competences are generally divided into 4 main areas, which supports each other:



Slurry spreading with the unique Agrometer hose system



Irrigation of recreational areas such as golf courses, football grounds, tennis courts etc.



Pump solutions for waste water, marine industry and industrial areas



Pumps, irrigators and any type of equipment and accessories for agricultural irrigation



# PROJECT ENGINEERING IN EVERY SOLUTION

The **good result** starts with a thorough preparation. No matter the size of the job, proper project engineering is a precondition to get the optimum solution.

**Focus** is on your starting point and your goal, and together we define the solution that serves you best.

Our **knowledge** about pump physics is your assurance that the end product performs just like intended.

You avoid over-vestment and don't have to worry about unnecessary high energy consumption or waste of resources - much to the **joy** for both your finances and the environment.





**Agrometer a/s**

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