

SEPARATION

WHAT IS A SEPARATOR?

The principle of separation is briefly explained: **A separator separates the solid and liquid substances from the medium to be separated.** This creates a solid and a liquid phase.

ADVANTAGES

LIQUID PHASE

- is more free-flowing
- flows off the foliage faster
- seeps faster into the soil
- fewer burns
- less fodder contamination
- better and faster N effect
- Ammonia losses are reduced
- No problems with the application technology, e.g. due to blockages
- Yields increase, the cost of reseeding and herbicides is reduced

SOLID PHASE

- Targeted application in arable land and grassland promotes humus build-up -> increased carbon return
- Targeted use of fertilizer also in water protection areas
- possibly use as bedding in cubicles (caution: observe conditions / restrictions)

GENERAL

- Slurry is more transportable (higher nutrient content per tonne) -> reduced spreading and transport costs
- Less odor pollution during spreading
- Longer and more flexible spreading period
- Liquid storage volume and mixing costs are significantly reduced
- Better utilization of nutrients

MODELS

We distinguish our separators in 4 basic models: PM200, PM260, PM300 and PM300-X.

These differ primarily in terms of design and throughput capacity.

Each basic model can be built in different versions and can therefore be adapted to suit your needs and requirements.

The separator can be configured as a stationary or mobile unit. In addition, the solids can be discharged using a conveyor belt or our Hydro.

WE OFFER BY DEFAULT

- Reliable separation operation thanks to fully automatic control and regulation unit
- Trouble-free operation with short set-up times and without complex expansion tanks or overflow lines
- Individual pressure control > Wide range of settings for all applications
- Self-priming progressive cavity pump with vacuum and temperature monitoring
- Adjustable pressure flap
- Press plug and leakage monitoring
- Dry run monitoring for separator and pump
- Customized solutions according to local conditions and requirements



SEPARATOR BASIC MODELS

PM200



Flow rate up to 18 m³/h

Ideal for small & medium-sized businesses

- Dry substrate content up to 32 %
- Screen drum sizes 0.5 - 1.0 mm
- Gear motor 4.0 kW
- Stainless steel housing
- Simple special technical equipment

PM260



Flow rate up to 35 m³/h

ideal for medium & large companies

- Dry substrate content up to 32 %
- Gear motor 4.0 - 5.5 kW
- Robust cast housing
- Extensive special technical equipment
- Optional press screw with counter bearing and special wear protection

PM300



Flow rate up to 65 m³/h

Ideal for large farms & contractors

- Dry substrate content up to 32 %
- Gear motor 5.5 / 7.5 kW
- Robust cast housing
- Standard press screw with counter bearing and special wear protection
- Extensive special technical equipment

PM300-X



Flow rate up to 90 m³/h

Ideal for large farms & contractors

- Dry substrate content up to 32 %
- Gear motor 11 kW
- Robust cast housing
- standard press screw with counter bearing and special wear protection
- Extensive special technical equipment



MODELS

Reliable separation operation of the system is made possible by the fully automatic control and regulation unit. With a frequency converter installed as standard, the separator can be fed via manual individual speed control and pressure control technology. The separator can therefore be operated without overflow pipes or complex and failure-prone expansion tanks. The safe separation operation of each system is guaranteed by a press plug and leakage monitoring system. The self-priming progressive cavity pump has vacuum and temperature monitoring as standard. The separator and the pump can also be protected against dry running.



STATIONARY SEPARATION SYSTEMS

The stationary separation systems are planned and built individually according to the local conditions and requirements.

Our extensive specialist knowledge enables us to produce individual special designs and system solutions for simple and cost-effective realization of the separation plant. The pipelines are designed according to the installation situation and, if necessary, integrated into the existing pump lines.

Our many years of experience in the field of separation and plant technology guarantee reliable implementation and operation of the plant.



MOBILE SEPARATOR

The mobile separator is mounted on a base frame as standard. This allows the complete unit to be positioned accordingly using a lifting vehicle. The separator is fed via a self-priming progressive cavity pump. The press water is discharged via a free drain. An additional press water pump can be fitted as an option.

MOBILE SEPARATION SYSTEMS

COMPACT

- All components on a compact, fire-resistant base frame
- Mobile use in different variants
- compact, robust design, long service life
- Fully automatic control unit
- quick assembly & use

DIVIDED

- Separator and feed pump each on a separate frame
- Separator can be positioned on an elevation (e.g. platform, wall or Lego brick) - larger discharge area
- Discharge of the solids takes place at a fixed location
- The separator can be fed with the pump from different pits

CONVEYOR BELT

- Pivoting conveyor belt
- All components on a robust, hot-dip galvanized base frame
- Quick assembly & use
- Solids discharge directly onto a trailer or 270° around the separator

SPECIAL BUILDINGS

- Unit permanently installed on vehicle, platform or trailer
- Very high throughput lines possible ($>100 \text{ m}^3/\text{h}$)
- Individual solution incl. fully automatic control technology
- Solids discharge directly or via conveyor belt/screw conveyor





UNIT WITH HYDRAULIC LIFTING DEVICE

HYDRO

Set up, drive up & get started. The Separator Hydro is a professional model for mobile separation. The hydraulic lifting device on the separator enables direct separation from the substrate into a transport vehicle. This saves money on expensive superstructures or time for loading into a trailer. There is also the flexibility to use the separator on any system. Ideal for inter-company use and for contractors.

- Unit mounted on a robust, hot-dip galvanized base frame
- base frame
- Direct substrate discharge into a transport vehicle
- Discharge height over 4 m
- Entire unit can be transported and positioned using a lifting vehicle



HYDRO-A

- Unit mounted on a car trailer
- Quick and easy transportation
- No lengthy loading and lashing necessary
- Separator on the side of the rear > no drawbar in the discharge area
- Road approval 80 km/h
- Total weight max. 3.5 tons

HYDRO-F

- Unit mounted on an agricultural chassis
- Simple transportation
- No lengthy loading and lashing necessary
- Separator on the side of the drawbar > better positioning at the suction point
- Drawbar can be retracted and extended
- Road approval 25 km/h
- Total weight over 3.5 tons possible

