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MAS screw press filter



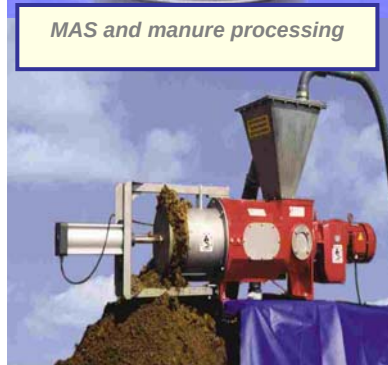
MAS and paper pulp



MAS and residual vegetables



MAS filter



MAS and manure processing

The MAS screw press filter offers high performance yet simple operation for the trouble free separation of all kinds of solid or liquid process wastes and product flows.

The material to be processed may be fed in through the top hopper or through one of the side connections.

The special internal screw of the machine transports the solids from the inlet to the press end. On all sides, the screw is locked into the filter by using a precise fit. The thin product (the liquid flow or filtrate) leaves the machine through the filter.

At the solids outlet end of the machine the screw turns the solids into a delivery chamber. Here, the solid components are automatically compressed into a wad so that an additional amount of liquid is forced to leave the machine through the filter. At this outlet end the dewatered solid leaves the machine through the exit chamber which is pressed by the mechanical or pneumatically actuated valve.

As the pressure in the exit chamber can be adjusted with great accuracy, the quality of the end products (both effluent and dry mass) can be easily regulated. For example, many applications require the effluent to be very clean whereas the main criterion in other applications is to achieve the highest possible proportion of dry matter in the solids.

The machine operates with a standard low screw speed of 24 r.p.m. (versions using 10-24 r.p.m. are also available); as a result, the machine runs very quietly.

The low speed has a favourable effect on those parts of the machine which are liable to wear.

In addition, the machine has a single-sided bearing system so that replacing different filters can be achieved very easily and quickly.

Since the end regulating pressure is adjustable and automatically self-correcting, there are many potential applications for this machine.

The unique bearing system makes it possible for the screw to turn freely within the filter. The result is less wear of both the filter and the screw.

Special features of the machine include:

- ☐ *Single-sided bearing system*
- ☐ *Simple to use*
- ☐ *Easy to clean*
- ☐ *Compact*
- ☐ *Low standard power consumption (2.2 kW)*
- ☐ *Low noise level*
- ☐ *Continuous filtration*
- ☐ *Complies with European Directive for machinery*
- ☐ *Capacity up to 100 m³/hr*
- ☐ *Filter of 150 to 1000 µm*
- ☐ *Easy to maintain*

The machine casing is available in cast iron or in corrosion-resistant material. The other parts are made standard in Stainless steel.

Applications include :-

- ☐ *Waste-water purification before draining into sewer*
- ☐ *Pre-filtration, e.g., for decanter*
- ☐ *Post-filtration, e.g., following a drum screen*
- ☐ *Increasing proportion of dry matter*
- ☐ *Producing stackable product*
- ☐ *Reducing removal costs*
- ☐ *Dehydrating of sludges*

Industries where the screw press filter may be applied include:-

- ☐ *Potatoes, vegetables, fruit*
- ☐ *Water purification*
- ☐ *Manure processing*
- ☐ *Biogas*
- ☐ *Abattoirs*
- ☐ *Paper industry*

SMICON supplies machinery and installations worldwide (in conformity with CE).

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