

SCREEN PRESSES



www.baharmuhendislik.com



SCREEN PRESSES

General Description and Intended Use

The screen presses are used to dewater and reduce the volume of the wastes grabbed by the screens in the wastewater treatment plants. The transportation and disposing costs are reduced by reducing the waste volume.

Working Principle Of Equipment

The waste is fed from the feeding hopper to the screen press. Thanks to the nozzles on the waste feeding hopper, the wastes fed are washed and cleaned of organic materials. Thus, the bad odors which may be occurred in the screen wastes are prevented.

The wastes are pressed at the outlet throttle when they are carried forward by the screw vanes. Such pressing helps to dewater the wastes and to reduce their volumes. The waste washing waters and the wastewater removed by pressing effect passes from the perforated sheet under the screw movement area through drip water pan. The wastewater collected in the drip water pan is transmitted to the first unit of the wastewater treatment plant form the screen press water discharge line.

In general, it consists of a main frame, a perforated sheet, a screw, a water drip pan, waste discharge pipe and a drive group.

Technical Specifications

- It is manufactured in any capacity and size.
- The water content of the pressed screen wastes is reduced by 60% - 70% and the waste amount is reduced by volume by 30% - 40%. Thus, it is easy to transport and dispose of the waste of which volume is reduced.
- A torque switch is available for the safety of the employees and the equipment. In case of excessive loading or compulsion in the equipment, the torque switch gets active and stops the system.
- The nozzle system connected to the solenoid valve sprays clean water to the waste feeding container and wash it in order to clean the wastes grabbed of the organic materials and to eliminate the bad odors.
- In case it is required, the waste discharge pipe is disassembled thanks to its flanged connection and the equipment is cleaned.

Advantages

- Design Without Requiring an Additional Waste Carriage Equipment,
- Low Operation and Maintenance Costs,
- Possibility to Control and Follow the System Operation Over SCADA,
- Low Energy Consumption,
- Easy Transportation and Mounting,
- Long Operation Life,
- Manufactured from
 Corrosion Resistant Material,
- Low First Investment Cost,
- Easy to Operate and Maintain.



Material Details

- Frame: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Screw: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Screen Surface: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).

"Different materials can be preferred in accordance with the request of the customer."

Accessories

- Nozzle System
- Torque Safety System
- Waste Inlet Chute*
- Waste Container*
- Wash Water Inlet Line Solenoid Valve*
- Wash Water Inlet Line Strainer*
- Local Power and Control Panel*
- Emergency Button*
- * Optional accessories are defined.

No	Part Name
1	Waste Discharge Pipe
2	Waste Pressing Throttle
3	Drip Water Pan
4	Washing Nozzle System
5	Waste Inlet Chute
6	Motor / Reducer
7	Torque Safety System
8	Perforated Sheet
9	Screw





DALAD mühendislik

Marmaracık Mah. 1982. Sok. No: 13/1 Ergene / Tekirdağ / TÜRKİYE +90 0282 686 63 33 pbx +90 0282 686 63 34

www.baharmuhendislik.com