

PLASTIC CONVEYOR SCREENS



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General Description and Intended Use

Plastic conveyor screens are mechanical equipment designed to grab big solid received materials with the domestic or industrial wastewater in the wastewater treatment plants. Thus, the blockage such as cases and malfunction in the pumps, valves and pipes are minimized and the pollution load of the wastewater is reduced and the treatment is performed with lower costs. In case the solid materials in the wastewater are intensive and a fine screen is required, the plastic conveyor screens are preferred. Its performance to grab solid materials in the wastewater is extremely high.

Working Principle Of Equipment

They are screens on which screen claws made of polycarbonate material are placed in parallel on stainless steel bars assembled to the chain system operating in endless loop. The plastic conveyor screens operate according to the principle to carry the solid materials with screen claws. After the grabbed wastes are carried up, they are scraped with brush system rotating at the same direction with the plastic conveyor and transferred to the waste container. The movement of the chain-sprocket is driven by the motor / reducer group. After the plastic conveyor discharges the wastes, the surface is sprayed clean water and the blockages are minimized. The screens are protected against excessive strains by the torque control system and can be operated level and time-controlled depending the requirement. on Generally, it consists of a main frame, a plastic conveyor on which screen claws are positioned, a drive group and a scraper brush.





Technical Specifications

- It is manufactured in any capacity and size.
- The screening efficiency is extremely high.
- Since they are cleaned with automatic cleaning system, the plastic conveyor screens are long-life equipment.
- 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.
- It is automatically operated depending on the water level in the screen channel or time without needing an operator.
- The screens can be optionally manufactured with a cover to prevent bad odors and visual pollution arising out of wastes during carriage. The upper covers also provide additional safety in terms of occupational health and safety.

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No	Part Name
1	Nozzle
2	Cleaning Brush
3	Ultra Flexible Breaking Resistant Screen Claws
4	Waste Discharge Chute
5	Motor / Reducer
6	Chain
7	Torque Safety System
8	Main Frame

Advantages

- High Screening Performance,
- Compact Design in Desired Capacity and Size,
- Possibility to Tracking and Check the System Operation Over SCADA,
- Easy Transportation,
- Fast and Simple Assembling,
- · Low First Investment Cost,
- Low Energy Consumption,
- Manufactured From Corrosion Resistant Material,

Accessories

- Nozzle + Rotator Brush
 Mechanism
- Wash Water Inlet Line Strainer
- Torque Safety System
- Waste Inlet Chute*
- Intervention and Maintenance Platform*
- Waste Container*
- Emergency Button*
- Level Measuring Sensor*
- Local Power and Control Panel*
- * Optional accessories are defined.

- Resistant Design,
- Long Operation Life.

Material Details

- Frame: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Chain: They can be manufactured as DIN 1.4301 (AISI 304), DIN 1.4401 (AISI 316) or S235JR + Electro galvanizing.
- Screen Claws: It is manufactured from Polycarbonate.
- Cleaning Brush: It is manufactured from Polyamide.

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



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