



PWL Drum Screens / Drum Filter

Process Water Treatment, Solids Recovery, Solids Thickening,
Waste Water Treatment

- gentle separation and static dewatering of solids
- robust towards abrasive media
- robust towards solids peak loads
- brushless, self-cleaning operation
- low wear
- low operating and maintenance costs
- low noise emission
- full encapsulation either in stainless steel or plastic
- wedgewire screens 0,15 mm to 3,0 mm
- Lochsiebe 2 mm bis 50 mm
- perforated screens 2 mm bis 50 mm
- solids dewatering through PWL Helixpresse (option)

PWL CenterFlow Drum Screen CFS



Function

drum CFS is a product to face manifold problems. The rugged sieve drum is the core of the CFS. Here, the particles are retained and carefully dewatered for further discharge. The tangentially approached sieve surface serves to efficient fine sieving even of high hydraulic loads. Due to the drum configuration the main task can either be a fast solids discharge or a slower passage through the drum if the retained solids are to be, in addition, washed or properly dewatered. With a constant rotational speed and a low drive power the sieve drum machine CFS is a reliable component withing the equipment of a plant.

The high availability and the large number of varieties open up a wide range of different applications for the CFS. Within the headbox the flowing-in medium is homogenized and the flow velocity reduced. The solids which are larger that the drum's screen openings are retained. The discharge flites which are helically mounted to the inner drum provide for a solids transport to the discharge at the end of the drum. The cleaned process waters run through the drum sieve downwards and are returned to the water cycle resp. into the channel.

Benefits

- gentle separation and static dewatering of solids
- robust towards abrasive media
- brushless, self-cleaning operation
- robust towards solids peak loads
- low operating and maintenance costs

Applications

- Pulp and Paper Industries
- Waste Reception, Treatment and Recycling
- Wood Industries
- Food Industries
- Slaughter Houses
- Chemical Industries
- Sewage Treatment Plants



PWL TanFlow Drum ScreenTFS



Function

The externally fed TanFlow Drum Screen TFS is used for fine screening of industrial and municipal waste water.

Thanks to its small footprint the TanFlow Drum Screen TFS is even suitable for installations with limited space. The basic body is made of stainless steel plates and profiles. The surface of the stainless steel sieve drum which rotates in the casing consists of triangular, helically wound wedgewire profiles. The gap between the windings corresponds to the desired wedgewire width. A scraper clinging to the outer drum lifts the retained material from the sieve surface. The scraper can be folded in easily.

The filtrate passes the drum a secondly from the inner to the outer side. This "Backwash" guarantees the drum cleaning, too. The TFS is equipped with a internal spray device by which if necessary the sieve drum can be cleaned. If required the machine can be equipped with an emergency overflow and a solids dewatering sytem. The PWL Helixpress is an ideal supplement to the TFS.

Benefits

- Efficient fine screening at different throughputs
- Low footprint
- Low operating and maintenance costs
- Applicable for oily and greasy stuff, also
- Compact combinable with PWL Helixpress

Applications

- Waste Reception, Treatment and Recycling
- Wood Industries
- Food Industries
- Slaughter Houses
- beverage industries
- Breweries
- Chemical Industries
- Sewage Treatment Plants



PWL Micro Rotating Drum Filter MDF



Function

The Micro Rotating Filter is a unit made of stainless steel, designed for liquid/solid separation within the field of process water of various industries.

An efficient and reliable fine sieving is essential not only for a comprehensive water recycling but for completely closed water circulations. For these applications, the Micro Rotating Filter MDF with mesh sizes between 30 and 2000 micron is the best choice. This filter offers a high capture rate at low operational costs during continuous operation. From the MDF's inlet connection the waste water runs off into the filter drum consisting of a steel construction which is covered with a stainless steel wire gaze. The solids being larger than the meshes of the filter gaze settle at the gaze and are transported upwards by the rotating filter drum.

The level-depending control of the drum rotation makes possible the built-up of a filter cake, thus, allowing for an even higher separation effect. The filtrate runs downwards through the gaze and is returned into the pump cycle resp. to the channel etc. The filtered solids which have been transported upwards in the drum are blown downwards by a linear in and out moving exhaust register. The fallings solids end up in the discharge conveyor which removes them from the filter drum.

Benefits

- continuous, atmospheric operation
- gentle solids separation
- separation of abrasive media possible
- higher separation effect due to filter cake
- single replacement of stainless steel wire gaze segments possible
- fully encapsulated
- heat exchanger (option)
- solids dewatering press (option)

Applications

- Pulp and Paper Industries
- Textil Industries
- Chemical Industries
- Plastic Recycling Companies
- Laundries
- Wool Processing
- Waste Water Treatment Plants

