



CenterFlow Drum Screen CFS

Efficient Liquid/Solid Separation in Industrial and Municipal Process and Waste Water Treatment

- gentle separation and static dewatering of solids
- robust towards abrasive media
- optimal hydraulic properties of sieve drums as a result of professional design
- brushless, self-cleaning operation
- no scraper blades necessary
- equipped with wedgewire
- equipped with perforated plate
- robust towards solids peak loads
- torsion-free operation of screen drum due to the reliable ABZ-drive
- low wear
- low maintenance costs
- fully automatic mode of operation
- full encapsulation either in stainless steel or plastic

Application

Increasing fees for sewage water make high demands on in-plant sewage treatment plants. The internally fed screen 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.

Function

The CenterFlow Drum Screen CFS is made of stainless steel material no. 1.4301 (AISI 304) designed for liquid/solid separation in the field of process and waste water of industries or WWTPs.

Within the headbox the flowing-in medium is homogenized and the flow velocity reduced. The headbox design guarantees for the tangential approaching flow of the inner drum surface necessary for an optimal separation process.

The solids which are larger than 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 wedgewire sieve downwards and are returned to the water cycle resp. into the channel.

Technical Data

throughput capacity up to 3,000 m³/h

wedgewire 150 µm up to 3 mm

perforation 3 mm up to 50 mm

drum diameter from 1200 mm to 1800 mm

drum length from 1300 mm to 4900 mm

drive unit ABZ-pinion drive

material stainless steel AISI 304, AISI 316 Ti/L or superior, PA 66

Installation Examples

- pulp & paper
- wood industry
- food industry
- abattoirs
- fish processing
- textile industry
- waste reception and treatment
- recycling
- chemical industry
- municipal WWTPs
- sand treatment

