



Screens



Spaans Babcock
Screens

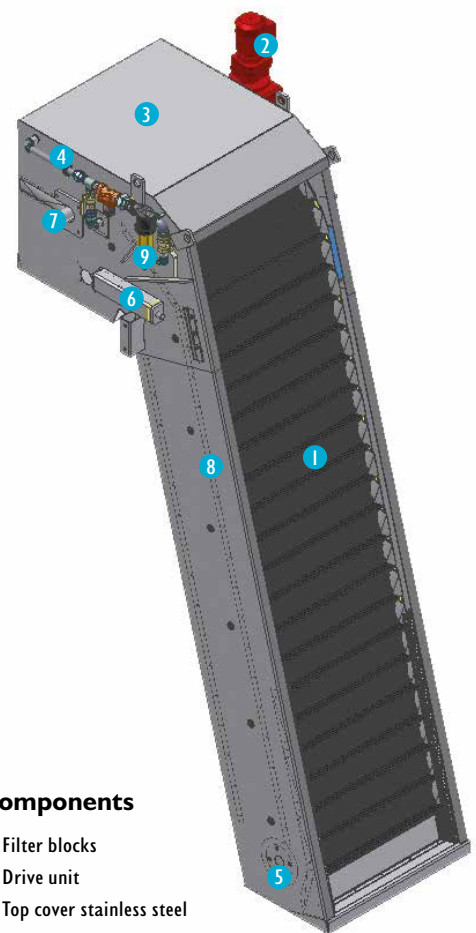
General



BORMET

In the year 2000 Spaans Babcock took over the assets of the German company Bormet, a manufacturer of fine screens with removable filter blocks for extremely easy maintenance and operation. This unique and patented system was brought to the market and is still a revolutionary improvement on the conventional continuous belt screens.

Spaans Babcock moved the production to its factory in the Netherlands, where the screen perfectly fits in with the range of heavy-duty equipment which are manufactured there. Worldwide over a 1.000 Bormet fine screens have been installed on municipal sewage treatment and industrial waste water plants.

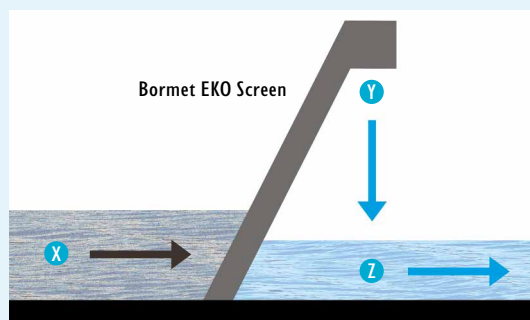


Components

- 1 Filter blocks
- 2 Drive unit
- 3 Top cover stainless steel
- 4 Spray water connection
- 5 Lower return disc
- 6 Chain tensioner
- 7 Main shaft bearing
- 8 Stainless steel frame
- 9 Filter

Principle

- X The screenings load in the raw sewage
- Y The screenings removed from the flow by the screen
- Z The screenings load in the screened sewage



$$SCR = \left[\frac{X}{Y + Z} \right] 100\%$$



The Spaans Babcock Bormet fine screens have a heavy duty, corrosion resistant construction. They are designed for liquid/solid separation in channel flows on municipal sewage treatment plants and industrial waste water plants.

The Spaans Babcock Bormet fine screens feature a patented system with removable filter blocks for easy maintenance and operation. They have intermittent operation, triggered by upstream and downstream water level measurements to minimise wear and increase the screening capture ratio (SCR).

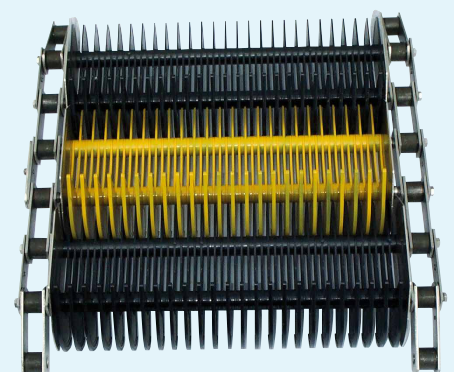
The Spaans Babcock Bormet fine screens are available in sizes up to 4.2m wide without a centre chain and up to 15m deep with slot widths ranging from 1-25mm. They can be installed at an angle of 60°, 75° or 85°.

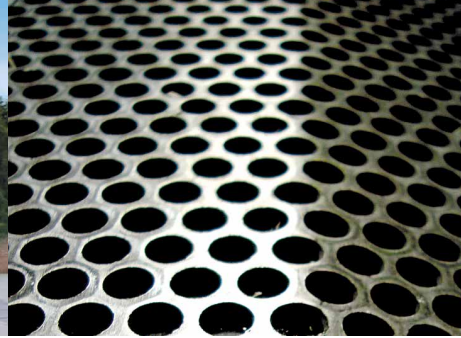
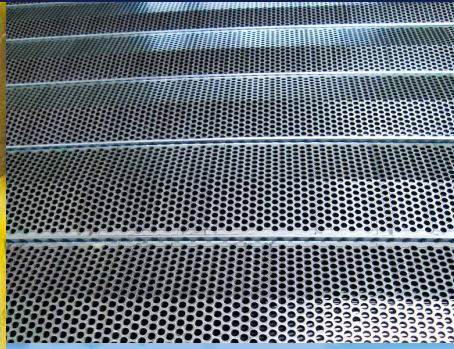
Advantages

- Heavy-duty
- Corrosion-resistant
- Quick removal of filter blocks
- Low downtime
- Easy pivoting system
- Not-sensitive to sand and grit
- Low wear due to block design
- Low operational costs
- Low maintenance costs
- Straight fit into existing channels
- Easy slot width modification
- Very low power consumption

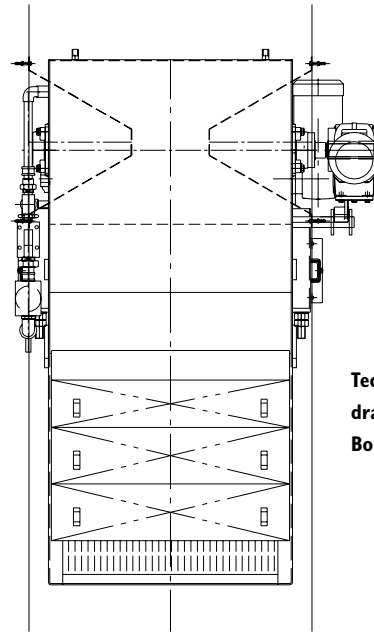
5 Key Points to consider

- Superior quality:
Long Lifetime, Low Maintenance
- Whole life costing:
As a result of the above and low yearly overall OPEX costs!
- Heavy Duty System:
Reliability no down time of treatment system!
- Big Install range:
Width up to 4200 mm
Height up to 15000 mm
- Less screens needed for same capacity,
lower investment and maintenance costs!





The Bormet fine screen will improve any downstream process, prevent damage and clogging of equipment, reduce sludge dewatering and overall maintenance costs of the plant! The Bormet Screen Capture Ratio (SCR) confirmed by the UK Water Industry Research Ltd. (UKWIR) test report is in the top segment for fine screens: High levels of performance are achievable by means of correct equipment selection and appropriate design. It's advisable to select the most optimal Bormet screen; with the correct aperture sizes in combination with an awareness of any resultant hydraulic considerations. Please contact Spaans Babcock technical team for any design questions or advice.

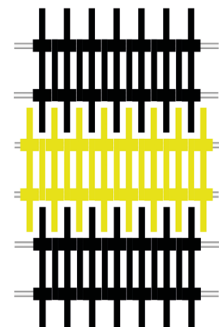


Technical installation drawing plain view of the Bormet fine screen.

Removable filter blocks for easy maintenance and operation



The Bormet's unique Block system. No wear between elements.



Special designed ABS (Acrylonitrile Butadiene Styrene) element, also available in stainless steel.



Bormet EKO Press

The Bormet EKO Press is designed for de-watering and volume reduction. The press consists of a drainage-, transport-, press- and compacting zone.

Bormet EKO Step Screen

Screens are equipped with moving and fixed stepped bar units which gradually extract the captured solids from the liquid flow, developed for the processing of medium-sized to high volumes of screened waste. These self-cleaning screens are blockage-free and require little maintenance.

Bormet EKO Wash Press

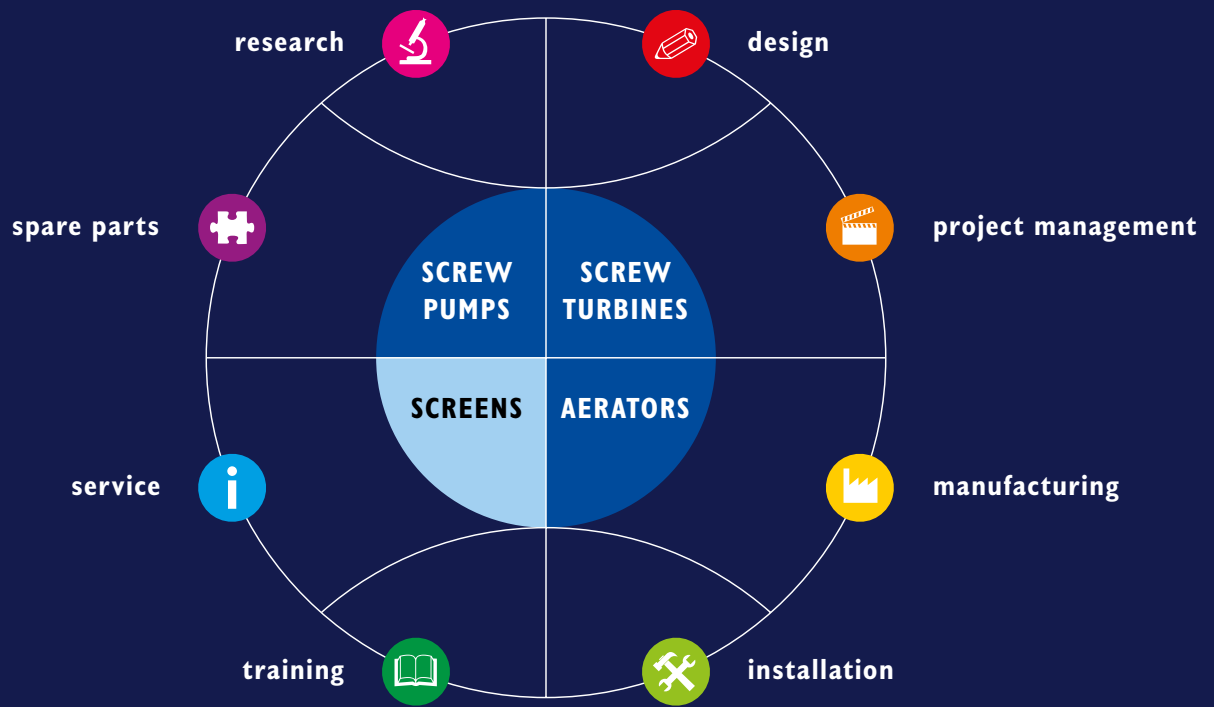
The Bormet EKO Wash Press is especially designed for washing of the sieved material to save the useful nutrients for the aerobic treatment process. The press consists of a washing- drainage-, transport-, press- and compacting zone.

Bormet EKO Rake Screen

The rake type screen consists of a one-piece profiled frame SS 304 fitted with a removable screen extended by an articulated drag scraper on a weighed guide. Operates automatically when the cleaning process is initiated. Automation is effected either by level sensor or by cyclic switch.



Open view of the Bormet cleaning system; a robust solenoid valve, a sufficient number of spray nozzles and a highly wear resistant brush for an excellent cleaning result.



Spaans Babcock bv - Head office and production facilities

P.O. Box 79 - 8560 AB Balk - The Netherlands | Meerweg 26 - 8561 AV Balk - The Netherlands | www.spaansbabcock.com

T +31 (0)514 60 82 82 | F +31 (0)514 60 44 85 | info@spaansbabcock.com