

# HUBER Drainbelt DB



Belt thickener for efficient and economical sludge thickening



## ►► The Machine – Its Advantages

- Reduction of ballast water in the digestion tank by up to 90 %
- Less digester supernatant
- Rapid liquid/solids separation with biological phosphorus precipitation
- No return of phosphorus into water
- Reduction of transport volume
- Reduction of disposal costs
- Low coagulant agent demand
- Low energy consumption
- Easy to maintain and operate

An adjustable eccentric screw pump conveys the sludge to a high-performance mixing device where it is intensively mixed with the diluted polymer solution. The flocculated sludge then passes a feeding box and is distributed smoothly onto the Drainbelt. The sludge flocks are then gently settling on the rotating filter cloth and the water separated by flocculation flows through

the filter belt into the filtrate pan. To improve pre-thickening, the filter belt is equipped with special pillow-blocks that restack and scarify the filter cake, which results in a rapid liquid/solids separation. The sludge is thickened to a dry solids concentration of 6-8%. Due to the pillow-blocks the belt surface can be reduced to a minimum. This results in a compact and space-saving machine design.

The separated filtrate is collected in a basin integrated in the machine and reused as wash water to clean the filter belt. The surplus filtrate flows back to the sewage treatment plant and is virtually free of solids.



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Subject to technical alteration

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