

HUBER Dissolved Air Flotation Plant HDF with DIGIT-DOSE setting new standards in wastewater treatment

Challenge:

Increased chemicals consumption due to varying volumes and freights

The wastewater generated in industrial companies comes from different production processes, with partly strongly varying flow volumes and loads. To ensure continuously constant feeding of the flotation plant nevertheless, a receiver tank for homogenisation is installed upstream of the flotation plant. Varying loads can be reduced this way but not prevented completely. Such mixing and balancing tanks often require a lot of space. To ensure in daily practice that the required clarification efficiency is achieved even with peak loads, precipitants and flocculants are frequently overdosed to be on the safe side.

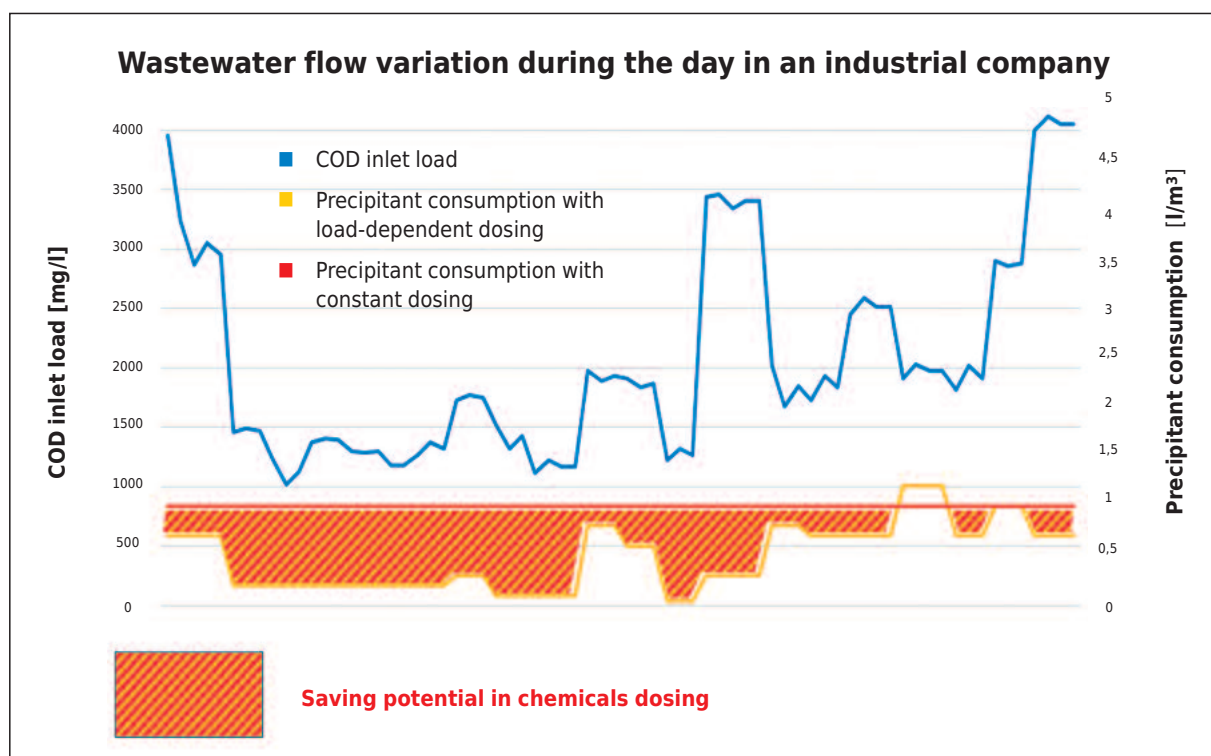
Another possibility is the manual adjustment of the doses by the operating staff. With the necessary

experience, manual adjustment can indeed reduce chemicals consumption without risking not to achieve the required performance results but requires personnel.

Solution:

HUBER Chemicals Dosing DIGIT-DOSE

The intelligent regulation of the chemicals dose is at the heart of the HUBER DIGIT-DOSE system, permanently determining from the measurement data of different sensors the pollution degree of the wastewater and adding then the required dose of different chemicals.



►► The user's benefit:

Reduced investment and operating costs

HUBER has risen to this challenge: with a flotation plant that both achieves the required clarification results reliably and at any time despite varying inlet loads and at the same time minimizes the consumption of precipitants and flocculants without staff attendance!

Such optimized use of chemicals reduces also the amount of flotatate sludge. Beside the operating costs for chemicals, disposal costs for flotatate sludge are another main cost factor.

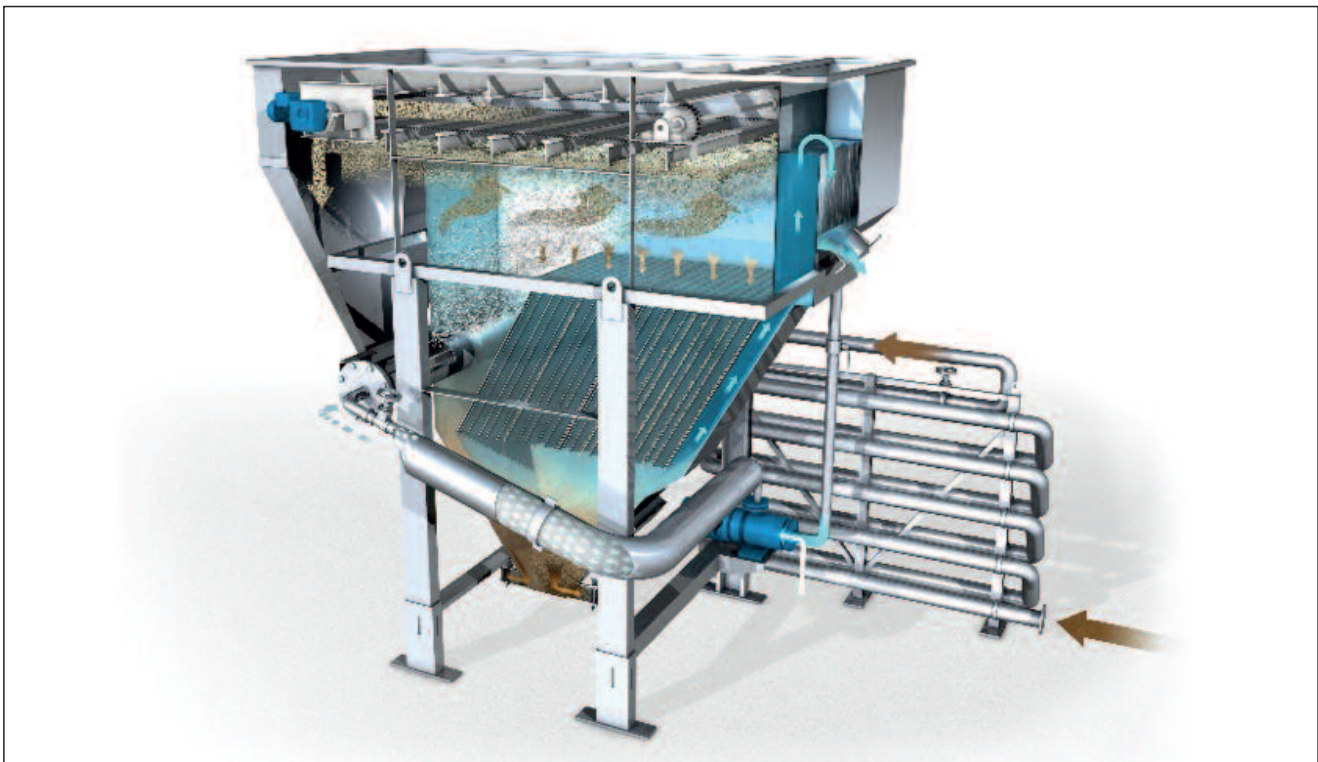
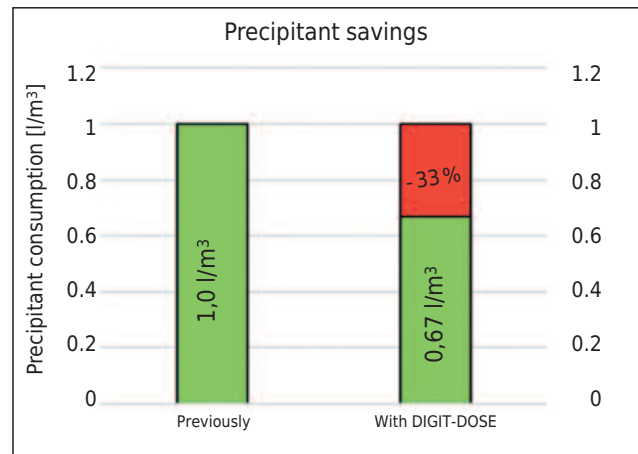
The investment costs for the HUBER Chemicals Dosing DIGIT-DOSE pay off for plant operators within a very short time due to the significantly reduced operating costs.

Existing plants retrofitted with DIGIT-DOSE have shown that the ROI (Return on Investment) can be achieved within only one year.

If HUBER DIGIT-DOSE is considered and included already in the project engineering phase, the size of mixing and balancing tanks can be reduced to the minimum. Any load variations still present can then reliably be managed with

the freight-controlled chemicals dosing solution without any negative effects on operating costs and/or plant efficiency.

We have extensive experience and a number of reference installations in the most different applications. Do not hesitate to contact us for additional information (digit-dose@huber.de).



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Subject to technical modification
 0,05 / 1 – 7.2019 – 7.2019

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