

Precision pumping: Getting exactly what you want with Grundfos Digital Dosing

Trevira Neckelmann is a leading textile dye works situated in Silkeborg, Denmark. 750 persons are employed in the 46,500 m² area of buildings in Silkeborg. More than 98% of the production is exported, mainly to the European automotive industry.

Trevira Neckelmann produces yarns by using the most up-to-date technology in texturing as well as dyeing.

The company is part of the Trevira group, with headquarters in Frankfurt am Main, Germany. Moreover, Trevira produces polyester yarns in Germany, Belgium and Portugal and is one of the biggest producers in Europe. The group employs 2400 people and has an annual turnover of 3 billion DKK.

The Situation

The quality standards within this area are extremely demanding: the colours need to be 100% consistent from batch to batch. Of course, this calls for exact dosing of the dyes used. The old solution, supplied by another manufacturer, featured pumps that were time-consuming and troublesome to calibrate. In fact, problems rose to a level where the company had to allocate 1.5 full-time employees to handle calibration at all times. The task of ensuring precise dosing at the plant is complicated further by the fact that the pumps have to handle varying inlet pressures.

The Grundfos Solution

As the overall problems with calibration became intolerable, Trevira Neckelmann wanted to replace its old system with a simpler, less time-consuming, and more accurate pump solution. The obvious choice was a Grundfos Digital Dosing system with its straightforward “what you see is what you get” technology.

TOPIC:

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LOCATION:

Denmark

COMPANY:

Trevira Neckelmann

This innovative technology eliminated all need for continuous calibration: Grundfos Digital Dosing pumps provide customers with accurate capacity setting, facilitating smooth and even dosing action. In addition to this, the user interface is so simple that the need for specially allocated staff disappeared overnight: the desired volumes of dye are simply set by means of the easy-to-use digital control panel, and the pumps do all the thinking.

The Outcome

The Grundfos Digital Dosing solution has provided trouble-free operation for more than 18 months - with minimal calibration of the system. Not only has this eliminated aggravation and delays, it has also freed up human resources for other tasks within the company.