



Case Study

Entrained Air, Quality Problems Solved

Munksjo Paper Mill & Vaprio Paper Mill, Italy

The Challenge

Entrained air causing frequent plugging at low stock levels

Dewatering reduced efficiency

Paper quality affected by unstable stock levels

The Discflo Solution

Disc Pump handles up to 80% entrained air without plugging

Can handle higher consistency stock than centrifugals

Improved paper quality due to laminar flow, stable operation

Two Italian paper manufacturers are discovering the benefits of Disc Pump technology for stock pumping. The pumps have solved problems with entrained air, dewatering, clogging and paper quality at the mills.

The Munksjo Paper mill installed a Discflo pump Model 100 x 50 x 356-2HHDL in August 1998, to transfer a 6-8% consistency stock from the mixing station to the machine chest. The pump has a capacity of 48 m³/h at 25m head.

The mill previously used a centrifugal pump in this application. However, the stock contained a large percentage of entrained air which caused the centrifugal unit to suffer frequent plugging problems at low stock levels. As a result, the machine chest stock level was unstable, leading to variations in paper basis weight and worsening paper quality.

The other installation is the Vaprio Paper mill. A Model 150 x 100 x 356-2HHD Disc Pump was started up in November 1998. It is used to empty the pulper at a 7-8% consistency. The design flow rate is 100-130 m³/h at 25m head.

This mill was also using a centrifugal pump originally for its pulper application. The old pump caused stock dewatering and would clog frequently, reducing the pulper cycle efficiency.

Since start-up (reported February 1999), the Disc Pumps have been operating successfully and have completely solved the pumping problems at both plants. The pumps were sold through Techno Paper Srl of Italy.

Call Discflo now to find out how our pumps can solve your problems.



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