



Case Study

Versatile Disc Pumps Help Paper Mill

Union Camp, Virginia

The Challenge

Frequent pump breakdown and excessive pump wear

Pipe damage from vibration of previous pumps

Abrasive, viscous, very high solids applications

The Discflo Solution

Discflo 'non-contact', laminar pumping ideal for high solids

No breakdown in first 2 years of operation

Minimal wear in abrasive service

Discflo pumps have been installed at Union Camp's paper mill in Virginia to handle some of the toughest applications at the plant. The first application (in 1994) was pumping cooked starch with a consistency of 4%-8%. Prior to employing Discflo Disc pumps, the company had tried a number of different pumping systems - including centrifugal, progressive cavity, lobe and air diaphragm pumps - to solve the problems of frequent breakdown and excessive pump wear.

Comments the lead operator at the plant: "We had to tear down pumps two or three a week, and had a shop employee occupied full-time repairing the pipe system, which suffered regular damage as a result of vibration from the pumps." The Discflo pumps, however, have lasted 2 years (as reported in 1996) continuously with no downtime.

Union Camp has employed more Discflo Disc pumps as part of a modernization project at the mill in mid-1997. They are used in the following applications: pumping a 74% solids titanium dioxide slurry; a 74% solids calcium carbonate slurry; a 50% solids calcined clay slurry; a 56% solids pigments solution; and various resins and clay coatings, with solids content varying from 30% to over 70%.

Most of the fluids being pumped will be severely abrasive and viscous, and have a high solids content... just the types of fluids that the disc pump excels at pumping. The unique non-impingement, pulsation-free allows up to 80% solids to pass without clogging, and with minimal wear to the pumps.

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



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