

Application story



Energy Savings Pay for Felt Cleaning Pump

Location	Czech Republic	Hydra-Cell model	G35XKCTHFECB
Type of application	Pressure Cleaning of Transport Belt	Flow rate	100 l/min (26 gpm)
Liquid	Recycled Water	Pressure	60 bar (870 psi)
Application details	A converting mill in the Czech Republic, manufacturing toilet tissue from recycled paper, was continually having problems with a piston pump supplying recycled water to spray manifolds for cleaning the transport belt. Pulp fibre and small mineral particles in the water caused seal wear. Seals then needed replacing several times a year to prevent water and dirt getting into the bearings. Repair costs, plus losses on production downtime for dismantling, were mounting. Moreover, the piston pump, with its 45kw motor, was very expensive in terms of energy consumption. A Hydra-Cell G35 pump was fitted instead, reducing maintenance requirement to four oil changes each year (10 minutes each) and an annual check/replacement in-situ of valves and diaphragms (2-3 hours). This compares with several days lost production every year for seal replacements on the original pump. As for energy consumption, the Hydra-Cell pump on this duty uses a 15kw motor - a massive reduction that has cut energy bills by more than 50%, yielding savings that paid for the whole new pump/motor installation within the first 6 months.		
Advantages of Hydra-Cell pump on this application	Energy savings. Tolerance of small abrasive particles in recycled water. Simple maintenance. Low cost of replacement parts.		

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