

Drive preventive maintenance cut paper machine downtime hours significantly

Jämsänkoski Mill, part of UPM, is located in Central Finland. The mill produces uncoated mechanical magazine paper (SC) and wood-free coated label and packaging papers.

In 1992, Jämsänkoski Mill installed its PM 6, the world's first paper machine to reach a speed of one mile per minute. The 9.5 m wide PM 6 is fitted with supercalanders and winders and produces over 300,000 tonnes/annum of SC papers weighing 40 - 65 g/m².

In 1992, ABB delivered SAMI STAR sectional drives for the paper machine. However, earlier this decade, the meantime between failures of the drives had started to decrease and preventive maintenance was called for.



The drive had performed well since it was commissioned in 1992. However, over time, the meantime between failures had decreased as the components aged. To restore PM6's high production availability, Jämsänkoski Mill and ABB decided to carry out preventive maintenance.

The maintenance was performed in accordance with the SAMI STAR's maintenance schedule and as a result of a site survey. It was then implemented during 2002-2003, over a period of ten pre-planned shutdowns, during which paper production was not affected.

Challenge

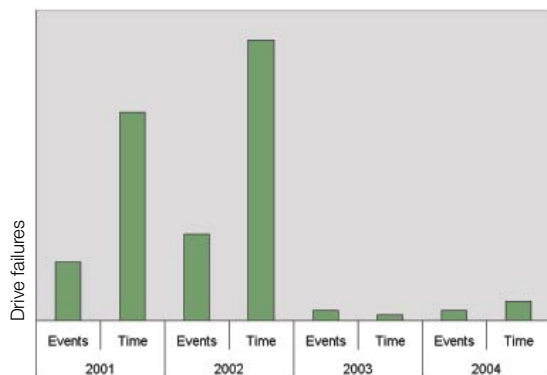
To attain drive availability at the level of the original installation.

Solution

Based on the SAMI STAR maintenance schedule and a site survey, ABB specified and recommended preventive maintenance which was carried out in ten pre-planned shutdowns in 2002-2003.

Benefits

- Remarkable enhancement of drive availability
- Significant reduction of lost production hours



High work time availability of PM 6 was restored by preventive maintenance based on the SAMI STAR maintenance schedule and a site survey.

Product Lifecycle Services

- Installation & Commissioning
- Training
- Support & Remote Services
- Spare Parts & Repairs
- Maintenance & Field Services
- Migration & Retrofits
- Optimization





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Case notes

Lessons learned

The importance of pre-planned preventive maintenance according to maintenance schedules is critical to ensure the highest production availability.

Product-specific maintenance schedules are the backbone for building up individual maintenance schedules and programs for different applications.

Future maintenance

ABB and Jämsänkoski Mill have devised drive maintenance plans for PM6 covering periods 2005-2008 and 2009-2014. The plans can be revised as required.

ABB product-specific maintenance schedules are applied for ABB drives throughout Jämsänkoski Mill.



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