

## Case note

# Drive preventive maintenance cut paper machine downtime hours significantly

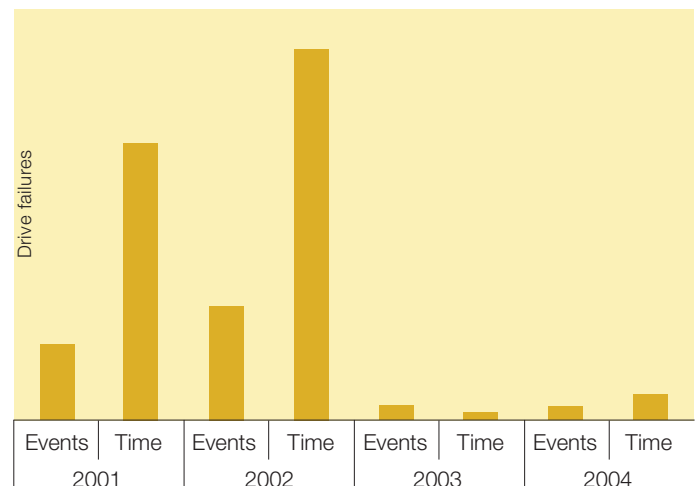


Jämsänkoski Mill, part of UPM, is located in Central Finland. The mill produces uncoated mechanical magazine paper (SC) and wood-free coated label and packaging papers.

In 1992, Jämsänkoski Mill installed its PM6, the world's first paper machine to reach a speed of one mile per minute. The 9.5 m wide PM6 is fitted with super-calenders and winders and produces over 300,000 tons/annum of SC papers weighing 40 to 65 g/m<sup>2</sup>.

In 1992, ABB delivered SAMI STAR sectional drives for PM6. In early last 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.



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

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

### 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.

For more information, please contact your local ABB representative or visit:

**[www.abb.com/drives](http://www.abb.com/drives)**

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