

APPLICATION REPORT

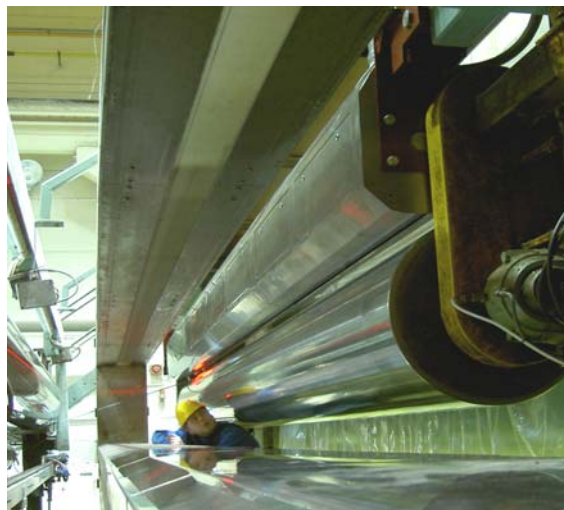
Detmaster PR Web Inspection System on a Linerboard Machine

In April 2004, installation of the Detmaster 7200 PR Web Inspection System, delivered by SR-Instruments Oy, was completed at Kemiart Liners' Polar Queen linerboard machine in Kemi, Finland. The Polar Queen linerboard machine comprises an online coating station and produces 340,000 t/a coated, as well as white top linerboard. The web width of the machine is 6900 mm at the pope reel and the maximum line speed is 900 m/minute.

The primary target for the exploitation of the Detmaster 7200 PR Web Inspection System at Kemiart Liners, is the accurate and reliable detection and reporting of blade streaks and spots appearing on coated and white top linerboard surfaces. With coated linerboard especially, the detection of blade streaks has high priority as, based on the reporting of the system, an operator of the coating station may carry out immediate process improvement measures, in order to eliminate the forming of blade streaks on the top surface of linerboard.

The Detmaster 7200 PR Web Inspection System reports the detected blade streaks and spots via a graphical, Windows-based user interface, which includes for example; a defect map showing the location, predetermined size class and type of each defect with icons, as well as statistical information concerning each defect class and individual defect. In the near future, a TCP/IP communication link will be installed, enabling communication between the Detmaster system and the mill-wide automation system.

Thereafter, the Detmaster system will deliver defect reports to the mill-wide automation system via TCP/IP, which will then distribute them to selected PC workstations in the mill. Respectively, along with reel numbers, the Detmaster system receives product grade and quality information from the automation system, based on which, the system automatically selects the predefined detection parameters for each grade and quality.



The Detmaster 7200 PR system installed at Kemiart Liners' Polar Queen linerboard machine in Kemi, Finland.