

# APPLICATION REPORT

12.10.2006



**Picture 1 Detmaster 1300 MPH system installed on a Tin Plating Line No. 3**

## DETMASER MPH PINHOLE DETECTION SYSTEM ON A TIN PLATING LINE

In February 2006, Detmaster 1300 MPH pinhole detection system was commissioned at Arcelor Florange Works on Tin Plating Line No. 3 where maximum strip width is 1205 mm and maximum line speed is 700 m/min. The Detmaster MPH system replaced with enhanced detection capability of 10  $\mu\text{m}$  pinholes the previous pinhole detection system installed on the same location.

The Detmaster MPH system frame includes a roll-out mechanism, which allows system pullout from the measurement position when needed e.g. to carry out maintenance tasks or to verify the system performance with the dedicated dynamic calibration tools. The dynamic calibration tools comprise a motor controlled rotating calibration disc including certified pinhole samples. The motor control enables maximum line speed simulation for the pinhole sample detection.

The Detmaster MPH system does not include any mechanical edge following units, thus enhancing the system reliability by excluding actively moving mechanical parts close to a strip. The Detmaster MPH system was also integrated with the mill information system, supplying detected pinhole information via TCP/IP to the operators' control room.