



24/7 WEB QUALITY INSPECTION

About Metso

Metso is a global supplier of technology and services for mining, construction, power generation, automation, recycling and the pulp and paper industries. Metso Pulp & Paper focuses on stabilizing and optimizing pulp and paper making processes. They offer process measurement and control solutions from the wood yard to paper finishing, as well as systems with comprehensive capabilities for all pulp and paper mill processes.

The unified Metso Process and Quality Vision system

Metso Process and Quality Vision systems are used for web quality inspection and web break analysis. The system has been applied to paper machines, off-machine coating lines, multi-ply coated board processes, winders, tissue machines and plastic extrusion processes.

The unified Metso Process and Quality Vision system is a multi-functional tool for analyzing the origins of breaks and defining the source of coarse or very fine and complex web faults that do not necessarily cause breaks but have to be eliminated before they become customer problems. Thus, the system has a dual purpose: to improve web runnability and to help the mill to ship the best fault-free customer quality.

In addition to the main camera installation, which provides data for the advanced image analysis, the system also integrates with different automation systems. For this purpose Prosys developed an automation system link for the Metso Process and Quality Vision system, using OPC communications.



OPC for interoperability

The OPC module developed for Metso is an independent part of the system, communicating with the main system using an application specific socket protocol. The OPC module is developed with Delphi and Prosys Sentrol OPC SDK, whereas the rest of the Metso system is developed in .NET. "Prosys is a strong technological partner for us in the OPC field", says Mr. Tapio Mattila, R&D Project Manager of Machine Vision Control & Measurement Solutions/ Process Automation Systems at Metso Automation Inc. "I appreciate their state-of-the-art OPC expertise and the extensive Sentrol library, which ensures very high productivity in the systems development phase. Cooperation with them has been uncomplicated and flexible, and we have always obtained service within very reasonable response time in our situation-specific needs", he continues.

OPC technology enables the system to be connected to any major automation system with standard configuration. The software components of Prosys Sentrol OPC SDK take care of numerous details required by reliable, interoperable OPC client and OPC server applications. Attention has been given to reliability and robustness to ensure that the OPC module can be used in continuous 24/7 production environments.



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Tapio Mattila, Metso Automation Inc.

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