

# RQMS

Roll Quality Management System

informetric

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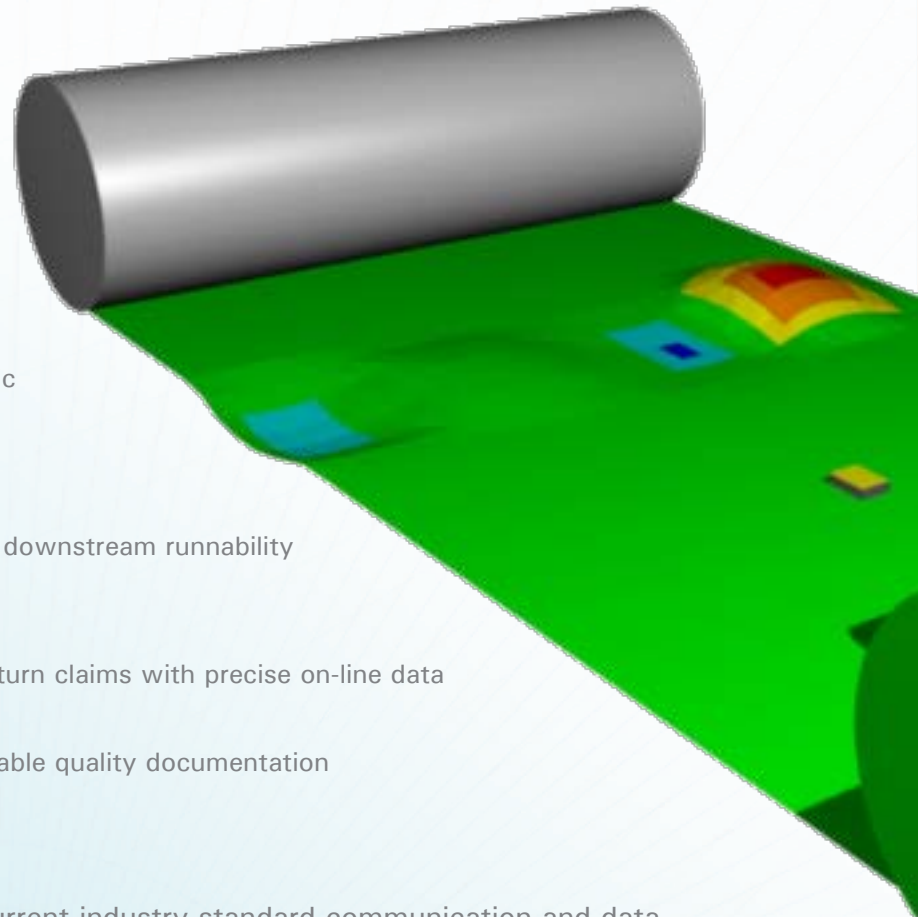
Manufacturing Intelligence. Simplified.

# RQMS ROLL QUALITY MANAGEMENT SYSTEM

RQMS is an enterprise-ready roll quality management system that interfaces with existing process control, information and quality systems. RQMS provides a Roll-Centric™ view to any data related to roll production, including gauging profiles, optical inspection maps, process trends, laboratory tests and operator comments. Information can be managed natively in the RQMS database or acquired automatically from other sources such as process historians, LIMS, MES and ERP systems.

## RQMS Benefits:

- Provide operators with a uniform method for determining the disposition of each roll
- Enable early detection of process aberrations that could result in scrap production
- Advise operators of marginal quality rolls through an interactive client application
- Provide convenient means for periodic assessment and optimization of production targets and limits
- Facilitate root-cause identification of downstream runnability issues
- Address customer complaints and return claims with precise on-line data
- Satisfy increasing demands for traceable quality documentation



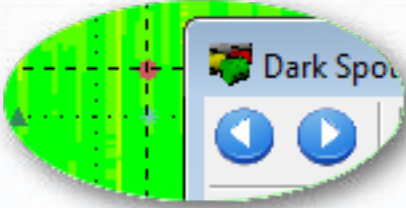
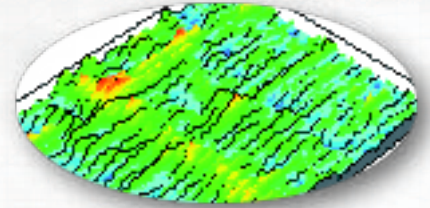
Informetric applications adhere to current industry-standard communication and data access protocols. As a result, Informetric software can be integrated with existing legacy systems as well as support new applications.



RQMS integrates all data related to roll production and quality into a single decision support environment.

### Gauging Profiles

Scan-by-scan profiles from scanning gauging systems are acquired and archived, allowing users to view high resolution contour plots. Profile statistics can be used to make product disposition decisions.



### Optical Inspection Defects

Defect maps and images are accessed through the RQMS client. Defect locations can be tracked through downstream slitting and converting.

### Process Data

RQMS can acquire and archive time-series process data directly from external automation systems, or reach out on-demand to third-party process historians and external manufacturing databases.

### Laboratory Integration

Test data can be entered directly through the RQMS client applications or accessed on-demand from external laboratory systems.



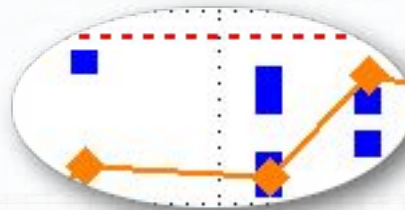
### Product Disposition

The RQMS product disposition engine makes a quality assessment for each product roll based upon all available quality attributes, including profile uniformity, defect severity/density and laboratory test conformance.

### Advanced Reporting

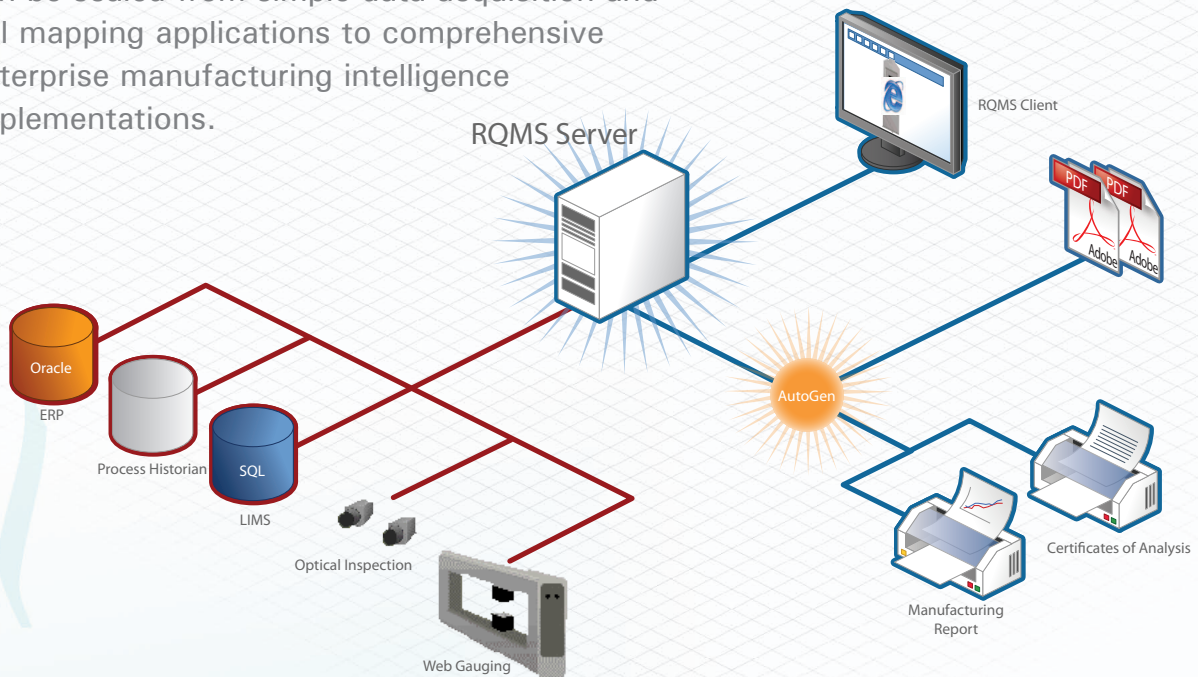
Advanced configurable reporting streamlines quality documentation and production management.

Web based reporting is well suited to manufacturing intelligence applications including Certificate of Analysis (COA) generation and periodic assessment.



# RQMS

RQMS acts as a bridge between real-time process systems, off-line quality systems and transaction-oriented business systems. RQMS can be scaled from simple data acquisition and roll mapping applications to comprehensive enterprise manufacturing intelligence implementations.



Informetric Systems software can be integrated with virtually any measurement, control or business system. Specific interfaces are available for PLC, gauging, optical inspection, SCADA, DCS, LIMS, MES and ERP systems. Informetric also offers integration and development services for non-standard interfaces.

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## Prerequisites

- PC class Windows Server
- 10 GB storage per year for a typical line/machine
- RAID fault tolerant drives recommended
- Microsoft SQL Server database license
- Microsoft Internet Information Server (web reporting)
- OPC DA Servers for real-time process and gauging profile data
- Defect maps for optical inspection systems
- Defect images (bmp, jpg, pcx, png)
- ODBC connections to external databases

## Supported transaction file formats:

- Comma delimited
- Fixed field width
- SQL
- XML

## Events/Data

- End-of-roll/reel turn-up event
- Product/grade
- Roll length
- Length/footage counter
- Sequential roll number