

Trimble Wedge Process Diagnostics

SOFTWARE



A fast online process
diagnostics system

Trimble® Wedge Process Diagnostics empowers you to seamlessly analyze process and quality data, revolutionizing the way you understand and optimize industrial processes. By bringing data from multiple sources into a single intuitive platform, Wedge simplifies complexity and enhances operational efficiency.

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Software

Features and Capabilities

Collaboration and knowledge capture

- Real-time communication and collaboration environment
- Evolving process diagrams and notes for capturing and sharing knowledge
- Increased situational awareness and sharing of best practices

Wide range of data analytics tools and methods

- Analysis of 2D profiles against process data to inform diagnosis
- Spectrum analysis and diagnosis
- Multivariate tools for extremely demanding situations
- And, all the basic tools, like statistics, XY plots, histograms, and cross-correlations, and more

Dynamic compensation for process delays

- A dynamic time-delay model that compensates for delays and supports reliable analysis
- A virtual tracer for following raw materials through the process
- Delay-compensated tracing of the full production history of end products

Dashboards

- Easy dashboard generation where process experts can distribute best practices within the organisation
- A library of configurable gauges
- Possibility to create custom analysis views using a combination of HTML, Javascript and mathematical expressions

High-bandwidth database operations

- Virtually unlimited capacity on sampling rates, tag amounts, and data history
- Super-fast data retrieval
- Data-retrieval techniques that protect source systems from overload and resulting disturbances

Powerful calculations

- Easy creation and editing of soft sensors
- Problem-oriented formula library for industrial time-series data

Diagnosis

- Ask questions, and Wedge provides root cause/consequence candidates
- Process status and time period comparisons
- Pattern recognition methods

Integration of data from and to multiple sources

- Consolidation of data from disparate sources along a single time axis
- A full suite of analytics and diagnostic functions, applicable across all data

Intuitive data cleansing

- Easy removal of invalid and irrelevant data
- Graphical and rule-based data refining toolsets

Technical Requirements

Wedge server software is installed by Trimble and requires Windows Server 2022 or later and a 150 GB disk. The server can be located on-premises, data center or in a cloud Windows server environment. The installation can be made on a virtual environment.

Available languages

English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Russian, Spanish and Swedish.

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