

Metris

ANDRITZ Digital Solutions



AUTOMATION METRIS DIGITAL TWIN

IMPROVING YOUR OPERATION WITH DIGITAL TWIN

OVERVIEW

ANDRITZ's Metris Digital Twin technology has evolved as an important building block of today's Digital Transformation, unfolding the combined power of process simulations and data analytics. The Digital Twin Solution in many ways, complement other automation

systems, making them more autonomous. Based on the proven IDEAS simulation platform, with more than 30 years of process and simulation expertise, the Metris Digital Twin solutions offer comprehensive insights for process performance improvement, operational visibility, and proactive decision-making

through an informative dashboard all in real-time. Metris Digital Twin transforms the real-time process information along with OEMs knowledge and custom design calculations into more meaningful and actionable steps making it a technical decision-making and advisory platform.

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ENGINEERED SUCCESS

Transition from operational readiness to operational excellence

ANDRITZ has been offering Digital Twin technology for offline applications for more than 25 years to drive operational readiness. Now, we extended our technology to online applications to drive operational excellence. The very objective behind the solution design is to improve, maintain and highlight the process performance based on real-time data.

WHAT IS A DIGITAL TWIN?

The Metris Digital Twin represents a digital replica of the physical process using asset-specific information such as actual physical dimensions and equipment characteristics. When connected to online plant data, the Metris Digital Twin acts like a performance information tool similar to an MRI of the human body—both can be used to find otherwise undetectable anomalies and highlight the gaps between actual and optimal operation.

The Metris Digital Twin runs in parallel with your operations, continuously calculating key process parameters which sometimes cannot be measured or are difficult to measure by traditional instrumentation.

The Metris Digital Twin, through its proven simulation capabilities, combined with live plant data as an input provides virtual transmitters, calculates optimal setpoints, and perform what-if scenario analysis. The data reconciliation helps with online model correction and replaces faulty measurements with plausible values.

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Benefits

METRIS DIGITAL TWIN

- Real-time application
- Complements advanced process control
- Anomaly detection
- Virtual transmitters
- What-if scenarios
- Inventory and production calculations
- Operational guidance
- Building block for digital transformation
- Data reconciliation

