FASTER MACHINE ANALYTICS “OUT-OF-THE-BOX”

Machine Intelligence Pack offers comprehensive, real-time visibility and historical analytics into equipment, in and across plants. Offering pre-configured machine analytics, reports, dashboards, and Key Performance Indicators (KPIs), Machine Intelligence Pack delivers ready-to-use, equipment-based reporting and analytics covering 70+ indicators such as OEE, cycle time performance, and Good-Scrap-Failed reporting. Engineers and managers benefit from faster visibility into equipment states and productivity, including stop and start times, planned and unplanned downtime, and more. Machine Intelligence enables offline root-cause analysis and supports continuous improvement initiatives, such as Lean and Six Sigma, to resolve bottlenecks and improve machine performance.

Intelligence Packs are available standalone or as a component of a broader DELMIA Apriso Manufacturing Process Intelligence (MPI) solution. As an operational intelligence solution, MPI provides visibility and decision support across all manufacturing operations to achieve and sustain manufacturing excellence. Beyond Machine Intelligence, MPI includes Intelligence Packs across additional operational areas, such as Production and Labor. With “out-of-the-box” integration to DELMIA Apriso manufacturing applications, Intelligence Packs get you up and running faster so that you can address specific pain points quickly.

CONSISTENT KPI REPORTING ACROSS THE ENTERPRISE

MPI Machine Intelligence Pack delivers standardized Key Performance Indicators (KPIs), providing a baseline for performance management and productivity reporting that can be leveraged across locations on a global, enterprise-wide scale. This means a KPI like OEE is defined once and reported the same across all plants. Measures can be rolled up to provide global visibility while at the same time supporting drill down into individual plants to enable cross-plant comparisons and benchmarking. This provides, for example, visibility to total production across the enterprise for a given product and insight into which plant or production line produces that product most efficiently.

BENEFITS

- Improves visibility into manufacturing process capability and capacity
- Identifies (and aids in removal) of costly machine bottlenecks
- Reduces operations costs by monitoring and analyzing factory constraints and throughput
- Increases production quality and reduces scrap
- Reduces unplanned line stoppage and cycle time variability
- Provides flexible, ad-hoc reporting and analytics to reduce IT reliance and increase agility and responsiveness
- Supports Six Sigma, Lean, and other continuous improvement programs
- Reduces the time and cost of data acquisition and configuration by over 60%
- Boosts decision support with fact-based, contextualized data that’s readily available on the shop floor
- Deploys common metrics quickly and easily to any DELMIA Apriso instance to standardize enterprise analyses and compare plant by plant performance
A COMPREHENSIVE SOLUTION FOR MACHINE INTELLIGENCE

Today, manufacturers face increasing pressure to improve equipment utilization. This demands unprecedented visibility to detailed performance data to ensure high equipment availability and efficiency. MPI Machine Intelligence Pack provides a comprehensive solution for capturing and analyzing the granular operational data needed to achieve these goals. And, it enables your team to work collaboratively using Microsoft® Excel, ensuring instant familiarity while reducing the time to get engineering productive.

For example, when a plant manager identifies that total production is down leading to below-target Overall Equipment Effectiveness (OEE), quick resolution is required. With Machine Intelligence Pack, you can drill down into components of OEE (such as machine availability) deeper than just planned and unplanned downtime. Instead, you can decompose available time further into blocked, starved, or idle time, setup and tear down, and even times when the machine is running below targeted speed. Machine Intelligence Pack provides the flexibility and business context to “slice and dice” this information to reveal hidden correlation to products, shifts, work centers, or other factors. By providing detailed information to machine states and production performance, MPI Machine Intelligence Pack enables you to quickly expose a hidden bottleneck responsible for below target production numbers.

PART OF THE TOTAL DELMIA APRISO SOLUTION

Machine Intelligence Pack is a key component of DELMIA’s broader DELMIA Apriso solution for manufacturing operations management. With DELMIA Apriso you can manage production, quality, warehouse, maintenance, and labor processes to achieve visibility into, control over, and synchronization across global manufacturing operations. Built with a native Business Process Management (BPM) framework that incorporates a unified data model, DELMIA Apriso applications enable continuous improvement and rapid response to market changes. DELMIA Apriso delivers a global view of manufacturing operations by utilizing a Service Oriented Architecture (SOA) to ease integration with enterprise applications, such as ERP and PLM, while interfacing with the shop floor and automation equipment.

FEATURES

- Includes 70+ measures and KPIs on machine performance, uptime, OEE, cycle, and setup time
- Displays machine events for entire production line in Machine Time Analysis cockpit
- Presents production rates by machine and product for expanded production performance analysis
- Incorporates Paypoint and Constraint machine flagging
- Includes Excel Add-In to embed machine intelligence in Excel for further analysis
- Provides Excel workbook repository to share analytics and improve collaboration
- Automates deployment capabilities globally across plants
- Enables easy creation of new analytic views and the ability to share them across sites with the Cube View repository
- Calculates metrics across multiple functional areas, dates, products, reason codes, and shifts, displayed in pre-configured dashboards, Excel workbooks, and reports
- Allows automatic drilldown, ad-hoc reporting and slicing and dicing of data by non-IT users

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