

Enabling productivity, quality and continuous improvement

Module	Benefit	Description
Integration	Seamless integration of manufacturing and business	Out of the box connectivity with SAP and other ERP systems like ERP LN, Baan, IBM Maximo. Connection to physical equipment (machines, test equipment, PLCs, DCS, barcode scanners, printers etc.) as well as applications (Web Service, XML etc.), systems and databases (Microsoft SQL Server, Oracle, any data source with ODBC / OLE DB interface). ECS web service integration point for external systems.
Production Management	Plan, respond and change on demand	Flexible and reliable dispatching and execution of production orders. Enables management of production flow units: configuration of workflows with optional paths, dynamic flow (routing) variants based on specific product characteristics, run-time production workflow change, production buffers handling. Visibility of status of all production orders and work stations at all times (WIP overview).
Electronic Work Instructions	Bring consistency to manual operations	Manufacturing information and instructions are automatically displayed to the right user through an easy-to-use and intuitive interface. Certification support, procedures, drawings, safety instructions, shift notes, multilevel approvals. Pervasive devices enabled - mobile orchestration of production. Eliminates paper driven production process and time of redundant data entries.
Quality Management	Recognize and respond to quality challenges	Integrated quality management, including quality parameters management, manual or automatic data collection, configuration and production of product test certificates. In-process quality control, automatic tolerance validation, required vs. optional quality parameter value, manual or automatic reporting of non-conformities, checklists support.
Downtime Management	Improve plant performance and productivity	Collecting, tracking and communicating real-time equipment or personnel downtime information and causes. Non-productive activities tracking (e.g. downtime due to cleaning), idle and rework time tracking. Configurable effect on a product unit affected with downtime (abort, resume). Real-time downtime information enables immediate improvement actions.
Material Management	Product genealogy and material movement transparency	Tracking of individual parts, lots, batches, assemblies. Material identification (Barcode labeling), real-time inventory levels update (allocate, reserve, receive, scrap), real-time reporting of material consumed and material produced, management of material compatibility and relevant processes, confirmation of material availability.
Warehouse Management	Improved inventory turns and inventory reduction	Available warehouses overview, manage physical location of material in a warehouse, manage stock and inventory levels, in-bound/out-bound of the material, real-time overview of a warehouse (locations, levels, filtering by material code). Integration with external warehouses and inventory management systems.
Labor Management	Plan, measure and view labor activities	Production calendars configuration: shifts, working time, exceptional days, and operation mode. Accurate management and tracking of staff attended hours (Join/Leave) against defined production time. Reporting details to ERP for the further cost/payments calculation.
Production Performance Reporting	Personalized view of the plant & production information	To managers, operators, manufacturing executives, process engineers, IT professionals, maintenance personnel needed to make important daily decisions.

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