



PRODUCTION MANAGEMENT



Qmuzik production management is a feature-rich system that supports all internal shop floor planning and execution activities. Multiple tools are provided to schedule and control all activities, and comprehensive tools are provided to perform production status monitoring and to report feedback on progress.

Seamless integration with the other modules of Qmuzik ERP ensures that Production Management streamlines the production life cycle, improves efficiency of manufacturing operations and provides real-time visibility and management control.

Qmuzik Production Management delivers the scalability, openness and speed necessary for high volume factory automation and for reduction of manual production activity reporting. The Qmuzik ERP application architecture allows Qmuzik Production Management to easily interface with programmable machines, SCADA systems; radio frequency (RF) data capture devices and 3rd party time and labour reporting systems.

As a result, Qmuzik Production Management has been selected and implemented as the core manufacturing control system for some of the most highly automated, focused factories.

It is also a perfect fit for very complex manufacturing processes where essential serial- and lot number tracking, contract identification, shelf- and working life management, quality assurance test pieces, by-products, dangerous goods or controlled items, complex bills of materials, routings and engineer-to-order environments exist with a high level of engineering change orders.

The system meets these challenges exceptionally well and assists in managing engineering baselines and change control and to minimize obsolescence, retrofits and scrap.



Some additional features and functions of Qmuzik Production Management are:

- **Shop Floor Management Workbench** - shop floor planners and schedulers enjoy extensive online inquiries that provide real-time visibility of production order status, progress and shop floor capacity load, with drill down to details for analysis and action.
- **Document Management** – a comprehensive document management module provides rich functionality to identify and classify both internal and external documents, to maintain document structures, to perform revision control and to distribute documents to the shop floor and to suppliers.
- **Repair and Refurbishment** – A part or assembly can be built, repaired or refurbished using the same production facility, work centres and bills of material while special order types, pre-built "repair" routings and retrofit kits handle operational workflow and special accounting for repair and refurbishment activities.
- **Order Linkage and Allocation** - the online linking and allocation function allows production planners and schedulers to create and manage complex order dependencies.
- **Subcontracted Operations** – Subcontracted manufacturing operations can be automatically planned by Qmuzik MRP or, alternatively, shop floor managers can make ad hoc "make/buy" decisions at any point in the production process.
- **Flexible Inventory Valuation** – Manufacturing accounting can be set up to value items by applying either standard cost or one of the options for average/actual cost.
- **Contract/Project and Priority Identification** – The MRP functionality provides an inherent ability to associate production orders with specific customer contracts, contract priorities and defence priorities (DPAS), as well as contract specific requirements for quality, marking, documentation, substitution, QA pieces, Test pieces and others as defined at customer contract level and part number level.
- **Flexible Post Deducting of Material and Labour** - Material requirements are linked to manufacturing operations (in the routing) which makes it possible to post deduct (back-flush) material and components from work centre flow racks or WIP stores (or back flush labour) when any quantity is yielded to inventory on a production order or when report-back is done on shop floor progress
- **Revision, Serial and Lot Number Control** – All manufacturing and inventory functions automatically react to engineering specifications requiring specific part or model revisions and serial or lot number control on components, sub-assemblies and end items. Exceptional serial- and lot number tracking exists in the application with a detailed audit trail of the as-planned and as-built definition of every product.
- **Serial/lot number position annotation** – In addition to serial- and lot number tracking, functionality is also provided to specify the installed position of components in a specific parent serial number and this can be maintained even after shipping as items are moved or exchanged during after-sales maintenance or upgrades.