

# WORK ORDERS



## Drive discrete manufacturing processes with a comprehensive cost and scheduling system

GLOVIA G2 Work Orders is the complete solution for managing all work order-related information and activities – from opening work orders and managing work-in-process transactions through coordinating and evolving your production line.

### Flexibility

Work Orders give you the flexibility you need to effectively manage any type of manufacturing, assembly, repair, or work activity. Whether you are manufacturing products based on forecasts, demands or Kanban signals, or building engineering prototypes, managing an entire development project or conducting repair work – Work Orders offer a single familiar tool that your whole team can use to schedule, manage and collect data for all work activities.

The flexible multiple line architecture of work orders provides the ability to manage many different business scenarios including:

- Scheduling multiple production runs of a single item on a single work order,
- Creating multiple orders, lines or 'splits' for a single item, (even when they need to have the exact same date and time).
- Providing multiple items and/or services for a specific 'job' - all on a single Work Order,
- Controlling the multiple phases of 'prototype to production' activities on a single Work Order – With each phase identified as a separate distinct line on that order.

### Scheduling Accuracy

Each line on a Work Order may identify multiple work activity dates and times. These can be automatically determined using the GLOVIA G2 scheduling and optimization capabilities. Schedules are defined to the specific hour, minute and second.

### Backflush Operations

Optimal production operations often require discrete as well as repetitive manufacturing styles. Work Orders deliver the best of both worlds by allowing users to simultaneously support a hybrid-manufacturing environment. The Work Order back-flushing capabilities include:

- Back-flushing of materials/components at a specific operation, as a quantity is completed, or as assembly or operation scrap is recorded,
- Back-flushing from both centralized (floor-stock) and line-side inventory locations,
- Back-flushing of Fully Lot controlled and Serial Controlled items.

### Multi-Level Material Pegging

MRP processing logic honors full level material pegging generated by GLOVIA G2 Project Resource Planning (PRP). This ensures that your free stock, commitments, and netting calculations display the pegging of replenishment orders to provide complete hierarchical material visibility at all levels.

### Outside Processing and Sub-contracting Manufacturing and/or Processes

You can quickly and simply generate purchase orders for any outside processes that need to be conducted as part of Work Order activities.

Advanced outside process management capabilities (Material Supply) provide for the planning, provisioning and tracking of supplied/consigned materials that you need to ship to your supplier in order that the sub-

contracted manufacture or manufacturing process can be completed and received on time. The subsequent manufacturing or shipping activities can then be immediately invoked as the receipt from the supplier is automatically directed to the next stage in the process.

## Complete Integration

Work Orders are an integral part of the GLOVIA G2 integrated ERP, Financial and Supply Chain solution that resides on a single database.

When a user records the completion of a manufactured quantity they are instantly advised if the necessary mandatory quality processes and measurements have not yet been recorded.

Where Lot/Serial traceability is critical - exceptions will immediately identify any component issues where trace-ability was not recorded.

## Substitutes, Alternates, Bills of Materials and Routings

For each line item on a WO, the system provides the option to identify a unique bill of material (BOM) and routing for that line.

This provides the ability to:

- Select an 'Alternate' BOM, or component substitutes,
- Select an 'Alternate' routing or create a 'tailored' production routing, or,
- Even create a completely unique custom BOM and Routing configuration.

This flexibility is critical when trying to manage production around customer specifications, limited material availability and capacity, resource, skill and/or tooling constraints.

The unique order specific BOM and routing records also provide the basis for order tracking, cost auditing, and the as-built product configuration control documentation.

## Multiple Costing Methods

When dealing with a range of products or projects, you need a flexible cost collection solution that supports multiple costing methods. Flexibility is ensured with the ability to select the cost methods most appropriate to the job at hand.

Visibility of standard, average and actual costing variances is provided.

By providing for the separate identification of both cost centers and a work centers - Routings can accurately support the needs of both cost accounting and resource/capacity planning without having to compromise.

## Work Order



## Work-in-Process Visibility

You always have instant and accurate visibility to your current investments in work-in-process inventory. Each work order provides an online valuation of the materials used and value-added costs. The total value of completed items is tracked for easy comparison to the planned work order costs and accumulated detail costs. Labor and machine efficiency data is generated and all transaction activity is tracked and calculated for financial posting and reporting.

Other key capabilities:

- Integration with Engineering change control
- Trial-kitting
- Multi-order committing based on priorities
- Lot and serial control and Traceability
- Pick-lists, Pull-tickets, direct issues, issue on receipt or completion
- Shop packets
- Production Dispatch Lists and Insights drive production activity.
- Labor and machine times and rates
- Outside processing activity and costs
- Scrap transactions for assembly, component, and operation
- Completion tolerances control completed quantity over/under
- Manufacturing close prevents further manufacturing activity
- Financial close identifies and creates GL entries for cost variances.
- Manufacturing and Financial closes are reversible

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