

Sirtawn Systems

Features and Functions: Manufacturing

Overview

* **The Manufacturing Module includes several Basic Sub-modules & Functions.**

Bill of Materials.	Material Requirements	Job Costing
Product Routing	Planing	Labor Performance
Work Order	Capacity Requirements	Shop Calendar Function.
Scheduling	Planning	Work Center / Machine setup.

Overview by Sub-Module

* **Bill of Material** includes:

- Sequencing of Bill, Quantity Used, Scrap Factor, Status, Effective Date and the ability to track Active, Forecast and Obsolete parts.
- Printing Single Level BOM, Indented BOM, Where-used List, Summarized BOM and Gross Requirements Report.

* **Standard Costing** defines standard costs for material, labour and outside work.

* **Product Routing** includes:

- Routing Number with Release Number, Creation Date and Description, Std. Lots and Lead times with overlap percentage.
- Route Details defines **Route Types**: Operation, Tools, OutSource and Notes.
defines **Oper. Types**: Setup, Inspection, Move, Production and Rework.
defines **Work centers**, Machine Number, Load Code, & Manufacturing Parameters.
- Route copy function with Resequencing.
- Print Operation / Tool Where-used Report, Routing Sheet and Lead Time Roll-up Report.

* **Master and Work Order Scheduling** controls the Material Plan & the Master Scheduling Functions.

- Order Status and Order Type.
- Manufacturing Item, Quantity, Route# & Allocation Control.
- Printing Work Orders, Material Plan, Suggested Purchase Order Report, MRP Exception Report, Pegging Report and Master Schedule Detail Report.

* **Material Requirements Planning** defines Materials required for each step of manufacturing.

* **Shop Floor Control** defines the Machines and Personnal requirements on the Shop Floor.

* **Labour Performance, Time Tickets and Accounting**

* **Other Functions and Reporting** includes:

- **Work Center Loading** and Reports.
- Daily Count Point Reporting.
- **Rough Cut Capacity Report and Exception Report.**
- **Labor Performance Reporting and Job Cost Reporting.**
- Shop Calendar Control and Reporting.
- **Work Center Detail Leveling** Function and Reporting.

Interface to Other Modules

- * **Integrated to the Inventory Module** (Raw & Finished Goods)
- * **Integrated to Accounting Modules.**
- * **Integrated to Sales Order Processing Module.**
- * **Time Tickets maybe integrated into the Payroll Module**

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Manufacturing (MRPII) Flow

Inventory

Type: Manufactured/Purchased
Usage: Finished Goods, Projected, Raw Material, Component
Routing: Routing#, Release#, Release Date
Engineering: Drawing#, Release#, Release Date

Bill of Materials

Parent Item#
Component Item# s
Sequence#
Quantity
Scrap %
Operation Code (Optional)

Labour Grades

Grade Code with std. Hourly Rate, Curr. Rate, Project Rate

Routing Master

Routing#, Release#
Description
Item#
Lot Size

Routing Details (Type, Oper#, Seq#)

N: Notes
P: Pointer (to another Routing#)
T: Tools required (Number, Location, Release#)
U: Outside (Id, Vendor, Days out)
O: Operation (Dept, Work Center#, Std. Man Hrs., Std. Machine Hrs., Labour Grade)

Work Order (Shop Order)

Work Order#
Item# to be built
Qty to make
Customer#, Sales Order# or "Made for Inventory" or "Project#"
Main Routing# (Master Item)

Details

Bill of Material
Routing Details per Component

Shop Floor

Scheduled production
Actual Labour (by Operation)
Actual Material (by Operation)
Actual Production Time (by Operation)

Standard Product Costing

Actual vs. Std. (Hrs, Lab. Costs, Mat'l Costs)
All items in BOM
Lead Time Variations
Material Costing Analysis

Job Costing (Work Order Costing)

Actual verse Estimate
Labour Costing Analysis

