



3RD DIMENSION SYSTEMS, INC.

Bill of Manufacturing

Any product that is manufactured must have a blue print to follow to insure that the product at the end is what the engineers (and customer) wanted in the beginning. The Manufacturing and Production Management Suite is the answer. You build a simple, easy to understand map of the product using the common building blocks of sub assemblies, materials, internal and external processes (sub contractors/vendors) to build and account for any valuable by products all in a single document – the MPM Bill of Manufacturing.

Bill of Manufacturing – road map from customer to production floor.

The Bill of Manufacturing is created one level at a time using previously created sub assemblies, materials, processes and external contractors. The finished goods and materials will already exist in the Open Systems Accounting Software Inventory module if you are using their Sales Order and Purchasing modules. With complete integration with Inventory, the amount of data entry to create a BOM is kept to a minimum.

Code	Description	Cost
BP	BYPRODUCT	1.5000
LA	LABOR	9.4484
MA	MATERIALS	26.5000
OH	OVERHEAD	21.3465
SC	SUB-CONTRACT	.2500
Standard Cost		59.0449

The Assembly master screen contains the connection to the OSAS Inventory, with full lookup and Inventory Master file creation. With an alpha/numeric Revision field, each Assembly can have over 45,000 revisions. Standard cost by type is maintained for each location, providing management with detailed information on costing.

Each BOM also can contain comment, user defined fields and can have documents attached for a full array of management tools.



ADDITIONAL 3RD DIMENSION SYSTEMS, Inc. PRODUCTS

Manufacturing Production Management Suite – full MRPII suite

1. **Bills of Manufacturing** – module to create and manage Bills including assemblies, sub assemblies, materials, work centers, external process and by products. Multi-level bills costed in FIFO, LIFO, AVERAGE and Standard cost. Allows for work order back flush at standard usage, full General Ledger and Inventory accountability and Standard Cost maintenance. Engineering Change Orders tracking included. Requires Opens Systems Accounting Inventory module.
2. **Work Order Processing** – module to create and manage shop floor work flow, integrating with MPM: Bill of Manufacturing (required) for creating all paper flow through the shop floor. Allows for actual material, labor and overhead application to specific jobs. Full accounting interface to OSAS General Ledger, tracking each shop floor transaction automatically. Variance reporting on material, labor and overhead variances. Allows for nine different methods of overhead capture. Further integrates with OSAS Sales Order for tracking work orders to sales orders, Payroll for time capture from the shop floor and CRM for integration with Project Management.
3. **Forecast/MRP** – module to perform “what ifs” based upon either projected sales or purchase by sku. MRP interfaces with OSAS Sales Order, Purchase Order , Inventory and MPM Work Order Processing (required) to provide plant and purchasing management and personnel all needs and availability for products either manufactured or purchased. Forecasts can be combined with actual for companies that build to master schedules. Shortages can automatically generate work orders to the shop floor for manufactured assemblies or generate purchase requisitions for purchased materials.
4. **Shop Floor Control** – module to manage personnel on the shop floor, calculating the manpower requirements based on work orders created in the Work Order Processing module. Fully functional software time clock that integrates with OSAS Payroll. Time clock is functional for both hourly and salaried personnel. Bar coding capability is included.

Inventory Requirements Planning – module to perform “what ifs” based upon either projected sales or purchase by sku. IRP interfaces with OSAS Sales Order, Purchase Order and Inventory to provide purchasing management and personnel all needs and availability for products either sold and purchased. Forecasts can be combined with actual transactions. Shortages can automatically generate purchase requisitions for in OSAS Purchase Order.