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# Manufacturing - Standard Routing

## Fitrix ERP Manufacturing Module

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*“Since transitioning to FitriX, our error rate has dropped by between 30 and 40 percent.”*

Brian Grellinger  
Director of IT  
Doosan Infracore

The Standard Routing defines the non-material resources needed to support the production of items. An effective resource definition application should allow you to comprehensively identify all the enterprise resources needed to produce an item. It should also allow you to easily define the process steps required for production, and it should allow you to provide sufficient detail relative to process steps to clearly describe all the operations required. These definitions should be available to all other areas within the enterprise to efficiently conduct business in engineering and design, quoting and proposal writing, production planning and operations, and cost accounting.

Work centers are also used to define standard costing rates for direct labor and overhead. These rates can be used to estimate the cost to produce an item.

**Production Scheduling** – analyzes load vs. capacity for open production orders.

**Capacity Requirements Planning** - analyzes load vs. capacity for open production orders, and longer term planned production orders.

**Standard Product Costing** – uses setup and labor hours, with costing rates for labor and overhead, to determine an item’s labor, overhead, setup, and outside process costs.

### Standard Routing

Easily define the process steps required for production, including those performed outside of your organization.

# Fitrix Standard Routing Module

Step	Std Opr	Description	Type	Work Ctr	Dept	Machine	Setup Hr	Run Labor	Piece	Mach Labor	Piece
0001		ASSEMBLY	Inside	WC01			0.00000	1.0000000	Hours per piece	0.0000000	Hours per piece
0002		TEST	Inside	WC01			0.00000	1.5000000	Hours per piece	0.0000000	Hours per piece
0003		ANTI-VIRUS SCAN	Inside	WC01			0.00000	1.5000000	Hours per piece	0.0000000	Hours per piece
0004		INSTALL ADD'L SW	Inside	WC01			0.00000	1.0000000	Hours per piece	0.0000000	Hours per piece

## Features/Function Highlights

### Routing Maintenance Includes

- User-Defined routing sequence
- Links to standard operations
- 30-character base description
- Unlimited routing step notes
- Inside or outside process
- Resource definitions for Work Center, Machine, Team, Department
- Primary and alternate steps
- Scheduling based on labor hours or machine hours

### Work Center Maintenance Includes

- Direct, indirect, or outside process types
- Optional grouping by department
- Shift-based capacity in hours per day
- Standard and average queue times
- Standard labor and overhead rates

### Maintenance Includes

- Optional grouping by work center or department
- Shift-based capacity in hours per day
- Standard and average queue times
- Major and minor service intervals

### Department Maintenance Includes

- Shift-based capacity in hours per day
- Accounting information for interface to General Ledger
- Tracks production costs for period and year-to-date

### Operation Maintenance

- Standard template for easier routing maintenance
- Operation notes
- Standards for: Setup hours, Run hours, Machine hours, Machine, Department, Team, Work Center

### Alternate Resources

- Work Centers
- Departments
- Teams
- Department
- Inquiries for where work centers, machines, and operations are used

## Reports available include:

- Routing steps – summary and detail
- Where-used by Machine
- Where-used by Work Center
- Where-used by Department
- Where-used by Team
- Where-used by Operation