



# EnterpriseIQ Preventative Maintenance

## Combining ERP and Equipment Management

### Maintain Tools and Equipment Easily and Efficiently

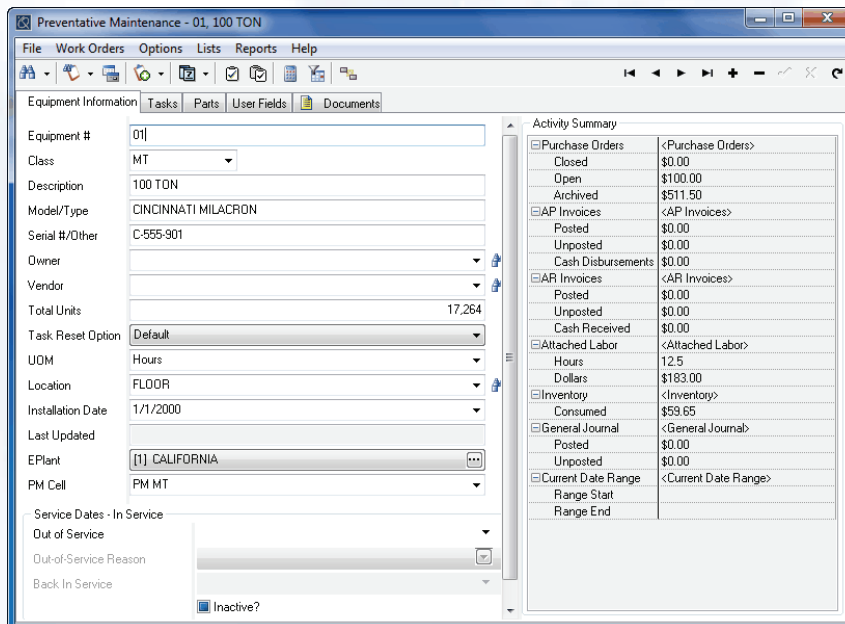
The EnterpriseIQ Preventative Maintenance (PM) module provides all the essential tools to implement a complete maintenance program. PM is designed to help protect your tools, machines, gages, devices and other equipment by automatically tracking usage and generating maintenance work orders. The maintenance labor scheduling capability allows for increased efficiency and reduced labor costs. Customizable tasks and templates make upkeep thorough, accurate and easy to maintain.

Designed cohesively within the EnterpriseIQ ERP system, PM links to Scheduling, Project Manager, Purchasing, Inventory, SPC, Quality Management and the financial system (AR/AP and Fixed Assets). Maintenance tasks are assigned to the equipment along with a time or usage interval, associated worker skill levels and material inventory requirements — all tailored to your environment. Equipment usage is captured automatically and calculates when maintenance is required or can be created manually for emergency or other needs. Best of all, time, inventory and other related costs offer a complete maintenance history.

### BENEFITS

- Reduce equipment downtime through regular maintenance
- Reduce labor costs and increase efficiency by scheduling PM labor
- Lower expenditures by reducing last-minute and emergency repairs
- Increase shop floor scheduling visibility to show maintenance downtime or out-of-service equipment
- Enter maintenance work orders directly from shop floor
- Easily create a complete audit trail for maintenance
- Streamline reporting of labor, spare parts usage and costs
- Reduce administrative tasks by automatically generating and printing work orders
- Accurately provide up-to-date financial information on equipment

Track equipment, tools and other assets through the EnterpriseIQ Preventative Maintenance module. Manage tasks, usage intervals and inventory or labor requirements.



The screenshot shows the 'Preventative Maintenance - 01, 100 TON' window. The left pane displays 'Equipment Information' with fields for Equipment # (01), Class (MT), Description (100 TON), Model/Type (CINCINNATI MILACRON), Serial #/Other (C-555-901), Owner, Vendor, Total Units (17,264), Task Reset Option (Default), UDM (Hours), Location (FLOOR), Installation Date (1/1/2000), Last Updated, EPlant ([1] CALIFORNIA), and PM Cell (PM MT). The right pane shows an 'Activity Summary' table with columns for transaction type and amount.

Transaction Type	Amount
Purchase Orders	<Purchase Orders>
Closed	\$0.00
Open	\$100.00
Archived	\$511.50
AP Invoices	<AP Invoices>
Posted	\$0.00
Unposted	\$0.00
Cash Disbursements	\$0.00
AR Invoices	<AR Invoices>
Posted	\$0.00
Unposted	\$0.00
Cash Received	\$0.00
Attached Labor	<Attached Labor>
Hours	12.5
Dollars	\$183.00
Inventory	<Inventory>
Consumed	\$59.65
General Journal	<General Journal>
Posted	\$0.00
Unposted	\$0.00
Current Date Range	<Current Date Range>
Range Start	
Range End	

*"The PM system has allowed our tooling repair department to know immediately when equipment is up for repair or needs emergency service, saving us many hours a week due to the quick response."*

**-Plastic Components, Inc.**

*"We use PM for everything from change over to all repairs on tools. Creating automatic entries off actual cycle counts makes it easy for us to know when maintenance is required."*

**-S&W Plastics**

# EnterpriseIQ Preventative Maintenance

## Key Features

**Record Equipment Information** – Maintenance items can be machines, tools, inserts, dies, auxiliary equipment, gages, calipers, devices or any other item or activity that needs regular maintenance or service. Maintenance intervals can be tracked by days, hours or cycles.

**Track PM Task Details, Skills and Attached Inventory** – Each task contains unique information as it pertains to the equipment, including skills and spare parts required, time to complete, recommended maintenance intervals, drawings, schematics and other information.

**Automatically Generate Work Orders** – Work orders can be generated automatically based on machine, tool or equipment usage. Work order history is maintained to provide a complete maintenance audit trail.

**Schedule Work Orders/Take Equipment Out of Service** – Work orders can be scheduled for downtime on specific machines. If equipment and tools are taken out of service, any and all departments can be notified that they are not available for production.

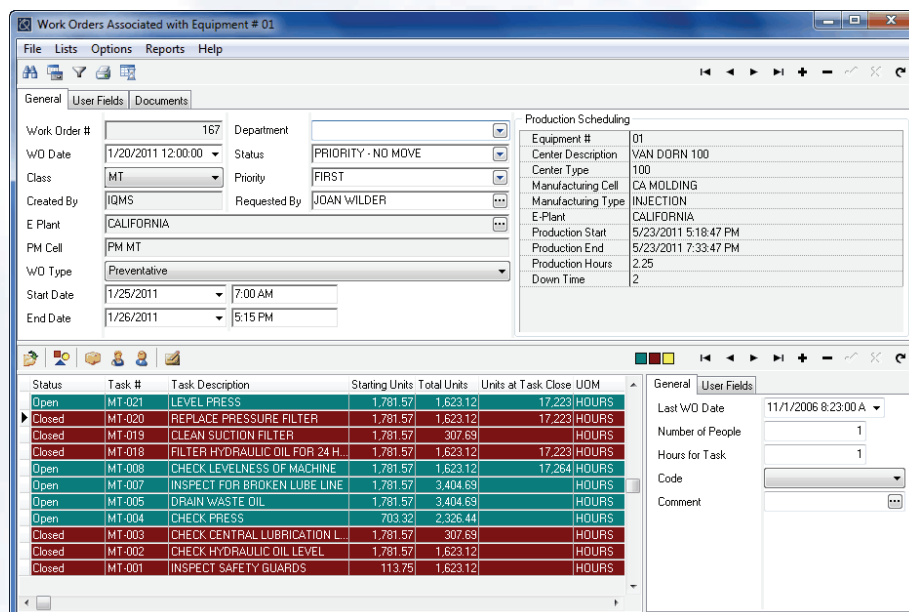
**Labor Scheduling** – Labor can be scheduled and planned by labor type based on PM cells and labor capacity.

**Track PM Costs** – Activity Summary provides a complete picture of cost activity against equipment, including purchase orders, AP/AR, labor consumed and materials used. Single click drill-down to the details is available.

**Where Used Capability** – Shows all bills of material and inventory items manufactured from machines, tools and auxiliary equipment to quickly identify which products may be affected by maintenance activities.

**Links to Quality Module** – Links to Corrective Actions, Engineering Change Orders and SPC are available for recording process information. Gage calibrations can also be tracked through PM.

Work orders can be automatically created based on equipment usage. As work order tasks are closed, labor used and materials consumed can be recorded to give accurate costs for maintenance activities.



The screenshot displays the 'Work Orders Associated with Equipment # 01' window. It features a menu bar (File, Lists, Options, Reports, Help) and a toolbar. The main area is divided into several sections:

- General:** Work Order # 167, W/O Date 1/20/2011 12:00:00, Class MT, Created By IQMS, E-Plant CALIFORNIA, PM Cell PM MT, W/O Type Preventative, Start Date 1/25/2011 7:00 AM, End Date 1/26/2011 5:15 PM.
- Production Scheduling:** Equipment # 01, Center Description VAN DORN 100, Center Type 100, Manufacturing Cell CA MOLDING, Manufacturing Type INJECTION, E-Plant CALIFORNIA, Production Start 5/23/2011 5:18:47 PM, Production End 5/23/2011 7:33:47 PM, Production Hours 2.25, Down Time 2.
- Task List Table:**

Status	Task #	Task Description	Starting Units	Total Units	Units at Task Close	UOM
Open	MT-021	LEVEL PRESS	1,781.57	1,623.12	17,223	HOURS
Closed	MT-020	REPLACE PRESSURE FILTER	1,781.57	1,623.12	17,223	HOURS
Closed	MT-019	CLEAN SUCTION FILTER	1,781.57	307.69		HOURS
Closed	MT-018	FILTER HYDRAULIC OIL FOR 24 H.	1,781.57	1,623.12	17,223	HOURS
Open	MT-008	CHECK LEVELNESS OF MACHINE	1,781.57	1,623.12	17,264	HOURS
Open	MT-007	INSPECT FOR BROKEN LUBE LINE	1,781.57	3,404.69		HOURS
Open	MT-005	DRAIN WASTE OIL	1,781.57	3,404.69		HOURS
Open	MT-004	CHECK PRESS	703.32	2,326.44		HOURS
Closed	MT-003	CHECK CENTRAL LUBRICATION L.	1,781.57	307.69		HOURS
Closed	MT-002	CHECK HYDRAULIC OIL LEVEL	1,781.57	1,623.12		HOURS
Closed	MT-001	INSPECT SAFETY GUARDS	113.75	1,623.12		HOURS
- User Fields:** Last W/O Date 11/1/2006 8:23:00 A, Number of People 1, Hours for Task 1, Code, Comment.