

## EFFECTIVE MANAGEMENT

The CRIBWARE Maintenance Management is designed for the efficient planning and execution of maintenance activities. Maintenance Management covers many diverse functions, including: Asset Management, Work Order and Task control, and scheduling. With Asset Management, a user identifies an Asset, checks its status, reviews service history and provides maintenance task documentation. The Work Order schedules and documents maintenance activities to be performed. A work order lists all the tasks needed to complete the activity, specific work instructions, asset documentation, part lists, tool lists and employee craft requirements. Work orders are scheduled and tracked and are always viewable on the CRIBWARE screen or in report format. Craft and employee skill information match the resources to efficiently maintain an asset.

Maintenance Management is available in multi-user, multi-location configurations and is compatible with the CRIBWARE issuing, receiving, material tracking and inventory control modules for the managing of maintenance materials. Point-of-use dispensing and vending cabinets provide secure material storage. CRIBWARE bar code devices are available for fast, accurate information entry and the ToolView module can be used to reference prints, documents and manuals.

## CRUCIAL COMPONENTS

The CRIBWARE Maintenance Management incorporates a robust set of activities and functions without sacrificing ease of use. The software power comes from the following features:

- ▶ Complete asset definition and status tracking
- ▶ Task templates for easy work order creation
- ▶ Work orders include time estimates, parts and tool lists
- ▶ Planned and Emergency work orders
- ▶ Work order tracking by status
- ▶ Work order scheduling with material requirements
- ▶ Online work order viewing and printing
- ▶ Craft designations and employee assignments
- ▶ Scheduling of maintenance activities
- ▶ History files on assets and work orders
- ▶ CRIBWARE Check out/in for item usage and tracking with the work order and assets
- ▶ Management viewing of work order status
- ▶ CRIBWARE inventory control, purchasing and receiving
- ▶ Link maintenance schedules with tools and supplies needed
- ▶ Integrated bar code printing and scanning
- ▶ Numerous standard reports and a custom report generator
- ▶ Security on all software functions
- ▶ Online viewing of reference prints, Material Safety Data Sheets (MSDS) and other documents



## DISTINCT ADVANTAGES

- ▶ Enables better planning of maintenance activities.
- ▶ Improves and simplifies asset management.
- ▶ Reduces the need for unscheduled maintenance.
- ▶ Documents emergency maintenance.
- ▶ Increases production uptime by monitoring maintenance on assets.
- ▶ Records accurate auditing of asset and maintenance history.
- ▶ Tracks the usage of parts and tooling.
- ▶ Documents history of maintenance activities.
- ▶ Enables efficient use of maintenance craft resources.
- ▶ Analyzes material used to perform maintenance.
- ▶ Manages maintenance more efficiently.

A screenshot of the CRIBWARE software interface, specifically the 'Work Order Information' window. The window title is 'Work Order Information' and it has standard Windows window controls. The interface is divided into several sections: 'Work Order' (number 6000), 'Description' (REPLACE COOLANT ON HAAS VF3), and 'W/O Type' (Scheduled). Below this are tabs for 'Work Order', 'Task Scheduling', and 'Task Crafts/Materials'. The 'Work Order' tab is active, showing fields for 'W/O Task' (REPLACE COOLANT), 'Asset' (ASSET 102), and 'Asset Task Template'. It also displays 'Task Status' (2 - Planned), 'Status Date' (08/05/2003), and 'Status Time' (15:54:17). There are sections for 'W/O Task Scheduling Method' (By Number of Days, 180 days), 'Meter' (Frequency, Date, Time, Last Read, Read By), and 'Production Frequency' (Frequency, Date, Time, Last Read, Read By). On the right side, there are date and time pickers for 'Requested Date' (Start: 08/05/2003, End: 08/05/2003), 'Planned Date' (Start: 08/06/2003, End: 08/06/2003), and 'Actual Date' (Start: 08/11/2003, End: 08/11/2003). The 'Last Work Date' is set to 'On Hold Date'.

# CRIBWARE MAINTENANCE MANAGEMENT

## ASSET MANAGEMENT

Asset Management provides the identification, status, service tracking and maintenance task documentation for physical assets. The asset information screen displays details of what it is, where it came from, where it is now and in what condition it is. The reports provide hard copy documentation of this information.

An asset's Tasks define the actual maintenance activities that will be performed. Tasks also include the items, tools, spare parts, documentation and the craft(s) that will perform the activity. An asset may have many tasks; each task may have different information for schedule, craft and required items.

Asset	Condition	In-Service	Description	Manufacturer	Model	Location	Facility	Serial No.	Dept
ASSET 102	Good	Y	HAAS VF3 VERTICAL MACHINING CENTER	HAAS	VF3	Tool Room	Building 101	2211	MILL1
<b>Completed Work Order Tasks</b>									
REPLACE COOLANT      Replace Coolant      Date Completed: 02/09/2004									
ASSET 103	Good	Y	HAAS VF5 VERTICAL	HAAS	VF7	2nd Floor	Blgd 4	9231	Pumps
<b>Completed Work Order Tasks</b>									
WEEKLY MAINTENANCE      Weekly maintenance II      Date Completed: 01/15/2004									
BANDSAW1	Good	Y	KALTENBACH K85 400 DG BANDSAW	Kaltenbach	K85 400 DG	Fabrication	Main	FAB	
<b>Completed Work Order Tasks</b>									
CHANGE BLADE      CHANGE OUT SAW BLADE      Date Completed: 01/22/2004									
BEHRINGER SAWING MACHINE	Good	Y	BEHRINGER SAWING MACHINE	Behringer Eisele	PSU 450 4750219041	2nd Floor	Main	3095	Sawing
<b>Completed Work Order Tasks</b>									
OIL CHANGE      Oil Change for Behringer PSU 700 #2      Date Completed: 01/15/2004									
CAR1	Good	N	CAR1-2003	Buick	Century	MN	Building One	61	
<b>Completed Work Order Tasks</b>									
CH TRANS FLUID      Change Transmission Fluid      Date Completed: 01/15/2004									
JDRX-95	Good	N	JOHN DEERE RIDER LAWN MOWER	John Deere	RX 95	HQ	HQ	MDRX95420397	
<b>Completed Work Order Tasks</b>									
CHANGE OIL      Change engine oil      Date Completed: 01/09/2004									

C:\Program Files\CRIBWARE\Reports\AssetHistory-Asset.rpt  
December 28, 2004 2:54:08PM      Asset History by Asset and Date      Page 1 of 1

## MAINTENANCE SERVICE

Maintenance Service documents the actual maintenance activities that are performed on a specific work order and work order task. Maintenance employees log into this screen to review and record the work being performed. Here, users view Start, Stop, On Hold and Finished status changes, items, tools, spare parts, documentation and the craft(s) used for the activity.

## ADVANCED ANALYSIS AND REPORTING

Maintenance Reports are designed to analyze and interpret important management information and provide user hard copy documentation. The reports are robust and graphically pleasing and present the information easily and quickly. CRIBWARE also supports the Crystal Reporting package, which offers the flexibility to create any custom report.

Work Order	Work Order Description	Work Order Status	Status Date and Time	Work Order Type	Auto Repeat
6000	REPLACE COOLANT ON HAAS VF3	Planned	8/5/2003 3:54:17PM	Scheduled	TOOL CRIB MANAGER 28,800
<b>Work Order Status Detail</b>					
Requested Start:	8/5/2003 8:00:00AM	Planned Start:	8/8/2003 11:00:00PM	Actual Start:	8/11/2003 11:00:00PM
Requested End:	8/5/2003 12:00:00AM	Planned End:	8/8/2003 11:55:00PM	Actual End:	8/11/2003 11:25:00PM
<b>Work Order Formalties</b>					
Estimated Cost:	0.00	Estimated Number of Hours:	1.00	Last Work Date:	
Actual Cost:	0.00	Actual Number of Hours:	0.00	On Hold Date:	
<b>Work Order Instructions</b>					
This coolant replacement is necessary for the new long run job starting on 1/01/03					
Work Order Task:	1	Work Order Task Description:	REPLACE COOLANT	Work Order Status:	Planned
<b>Work Order Task Status Detail</b>					
Requested Start:	8/5/2003 8:00:00AM	Planned Start:	8/8/2003 11:00:00PM	Actual Start:	8/11/2003 11:00:00PM
Requested End:	8/5/2003 12:00:00AM	Planned End:	8/8/2003 11:55:00PM	Actual End:	8/11/2003 11:25:00PM
<b>Assigned Items for Work Order</b>					
	34045		WISE GRIP PLIERS		1

C:\Program Files\CRIBWARE\Reports\WorkOrder-BOM-WorkOrder.rpt  
December 28, 2004 2:44:27PM      Work Order - Bill Of Materials by Work Order      Page 1 of 1



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