



TechWare MainTrac

Emergency repairs are preventable with MainTrac. Forecasting and scheduling preventative maintenance is essential to an efficient and reliable facility. It's a known fact that timely maintenance on equipment extends its life, improves its quality and **reduces your costs.** *TechWare MainTrac* is a solution for your maintenance needs. Forecast and schedule machine maintenance so that emergency repairs are ancient history. Get a "bird's eye view" of the status on each machine in your facility with user defined color coding.

In this example:

- RED** = Past due repairs, Major items.
- YELLOW** = Past due repairs, Minor items.
- BLUE** = Forecasted repairs.
- GREEN** = No repairs necessary.

TechWare MainTrac								
BDT	AIR WASHER	FILTER HOUSE	OPTIMIX	CVT	CARDS	BREAKER	FINISHER	SPINNING
S129 12:32	S132 4:12	S021 0:8	S112 0:0	S113 0:4	S148 0:16	S026 0:8	S024 0:0	
S108 4:16	S020 4:12	S028 0:0	S033 0:8	S035 0:0	S058 0:4	S029 0:0	S038 0:0	
S008 4:8	S046 4:16	S103 0:16	S034 0:8	S037 0:4	S062 0:0	S051 0:0	S118 0:0	
S133 8:12	S137 4:12	S153 0:8	S036 0:8	S047 0:0	S114 0:0	S137 0:20	S064 0:4	
S146 4:12	S149 4:32	S158 0:8	S006 0:4	S143 0:12	S125 0:0	S017 0:0	S152 0:4	
S111 4:4	S019 0:0	S049 0:4	S055 0:12	S144 0:16	S030 0:8	S023 0:0	S009 0:4	
S145 4:16	S104 0:0	S057 0:12	S106 0:0	S010 0:4	S155 0:8	S110 0:0	S011 0:0	
S027 4:8	S120 0:12	S005 0:0	S109 0:16	S135 0:0	S138 0:0	S134 0:12	S121 0:0	
S007 4:0	S041 0:4	S032 0:4	S117 0:0	S048 0:0	S039 0:4	S136 0:8	S124 0:8	
S045 4:24	S065 0:12	S054 0:4	S002 0:4	S122 0:0	S139 0:20	S044 0:0	S141 0:12	
S052 4:8	S066 0:4	S059 0:4	S013 0:0	S123 0:4	S157 0:0	S160 0:4	S056 0:4	
S031 4:4	S131 0:0	S107 0:0	S050 0:4	S042 0:0	S018 0:0	S001 0:4	S060 0:0	

Report Order: Employee:
Date Range: To Plant Code:

Review the cost of repairs including labor. This powerful feature gives you an accurate account of where your dollars are going. Projecting and scheduling repairs make unforeseen costs forgotten.

Date: 05/01/08	TECHWARE INCORPORATED		Page: 1									
	Projected Cost											
Plant Code: P1	Filter: WIRE CYLINDER											
Process: CARDS												
Repair #	Repair	Major Item	Run Hours	Units per	Item Cost	Labor Hours	Labor Cost	Total Items	Total Units	Total Item Cost	Total Labor Hours	Total Labor Cost
7	WIRE CYLINDER	Yes	8,800	1	\$936.76	16	\$15.00	128	128	\$119,905.28	2,048	\$30,720.00
								128	128	\$119,905.28	2,048	\$30,720.00

Features

- Maintenance Scheduling
- Track Equipment
- Forecast Maintenance Projects
- Monitor Labor and Repair Costs
- User Flexibility
- Easy Data Entry
- Single Screen Access



Are You?

- ... in need of a way to increase the flexibility of your maintenance staff?
- ... tired of *reacting* to machine breakdowns?
- ... getting overwhelmed with the volume of paperwork in your filing cabinet?
- ... receiving a true picture of the condition and **maintenance cost** of your equipment?
- ... in need of a preventative maintenance system that gives you "at a glance" status of your shop floor?

It doesn't get any easier than this!

Based on machine requirements, schedule necessary repairs or parts replacement. View information by Process, Location, Priority, or Employee. Record repair dates and down time quickly and easily. Keep your machines running smooth and the quality of your product number one. With just a click of your mouse, get detailed machine data. Reports for analysis and scheduling can be accessed from the same screen.

The 'Machines' software interface displays a 'Data Entry' form for machine S129, including fields for Mac No/Ref No, Machine, Plant Code, Process, and Product. Below the form is a 'Repair History' table with columns for Repair, Major, Last Meter, Next Service, Repair Date, Due Date, and Comment. A 'Downtime History' table is also visible, showing Start Date, End Date, Hour Adj., and Comment.

Repair	Major	Last Meter	Next Service	Repair Date	Due Date	Comment
OH - A (1500 HR)	T	0	0	02/10/2008	04/20/2008	-
OIL CHG - BEVEL GEAR BOX	F	0	0	08/22/2007	06/04/2008	-
OIL CHG - OPEN ROLL DRIVE	F	0	0	08/22/2007	06/04/2008	-
OIL CHG - AUX GEARBOX	F	0	0	08/22/2007	06/04/2008	-
OH - C (6000 HR LUBE)	T	0	0	06/24/2007	04/13/2008	-
OIL CHG - WINDING DRIVE	F	0	0	06/12/2006	04/12/2008	-
OIL CHG - YARN GUIDE DRIV	F	0	0	06/12/2006	04/12/2008	-
COMPRESSES AIR CLEAN	F	0	0	06/24/2007	04/13/2008	-
OH - D (12,000 HR LUBE)	T	0	0	06/12/2006	04/12/2008	-

The 'Maintenance Items' software interface shows a 'Data Entry' form for repair #7, including fields for Repair No, Run Hours/Meter, Order, and Labor Cost. A 'Comment' field contains a list of steps: 1. Turn Power Off, 2. Remove top cover, 3. Remove excess dust and blow out w/ 30PSI, 4. Grease & grease points, 5. Check and record guide clearance, 6. Check belt wear / replace if frayed, 7. Replace cover, 8. Turn power back on. An image field shows a diagram of a machine component with labels: Combing, Flar, Stripping, and Cylinder.

Add comments and images to all maintenance items so your staff will always be prepared.

Maintenance schedules are just a click away making emergency repairs a thing of the past. This "at a glance" report, featured below, allows you to quickly take charge of repairs.

The 'TECHWARE INC. - Scheduled Maintenance Listing' report shows a table of scheduled maintenance items for machine FR30. The table includes columns for Machine, Repair, Major Rem, Run Hours, Repair Date, PM Due Date, Adj. Hours, and Comment. The report also includes a 'Notes' field and a 'Work completed by' field.

Machine	Repair	Major Rem	Run Hours	Repair Date	PM Due Date	Adj. Hours	Comment
FR30	12,000 OIL CHANGE	Y	12000	07/05/05	12/16/06	696	
FR30	BRAKE PAD	N	30000	04/25/05	10/25/08	696	
FR30	COMBING ROLL BELT-LEFT SIDE	Y	16000	04/25/05	03/21/07	696	
FR30	COMBING ROLL BELT-RIGHT SIDE	Y	16000	06/11/06	04/11/08	96	
FR30	COMBING ROLLERS	Y	30000	10/19/03	04/20/07	696	
FR30	DRIVE SLEEVE	N	30000	04/25/05	10/25/08	696	
FR30	FEED SHAFT GEAR	N	30000	04/25/05	10/25/08	696	
FR30	MAJOR OVERHAUL	Y	30000	04/25/05	10/25/08	696	
FR30	NAVELS	Y	99999	04/05/04	09/30/15	696	
FR30	OVERHAUL/CLEANING	Y	2000	08/16/06	11/07/06	-	
FR30	ROTOR BELT-LEFT SIDE	N	10000	08/16/06	10/06/07	-	
FR30	ROTOR BELT-RIGHT SIDE	N	10000	08/16/06	10/06/07	-	
FR30	ROTORS	Y	30000	04/23/03	10/23/06	696	
FR30	TAKE UP COT	Y	99999	04/25/05	10/19/16	696	
FR30	TWIN DISC	N	30000	04/25/05	10/25/08	696	

Key Benefits

- ◆ **Improve Labor Costs:** Improve the amount of time involved with collecting, storing and entering maintenance information. Better organization of maintenance staff will improve costs by creating a more efficient staff.
- ◆ **Minimize Equipment Downtime and Repair Costs:** By effectively scheduling and tracking maintenance costs and activities.
- ◆ **Increase Machine Availability:** Machine time increases as **MainTrac** helps you reduce emergency repairs created by uninformed neglect.
- ◆ **Pin Point Repairs:** Find imminent repairs for critical machinery and correct them *before* they become costly.
- ◆ **Quickly and Easily:** Determine the "health" of your maintenance operation.
- ◆ **Centralized Data Storage:** Store maintenance data for various machines in *one* central database for easy tracking and analysis of labor costs, equipment information and repair history.