

Tool-Track

Tool and Machine Planned Maintenance and Repair History

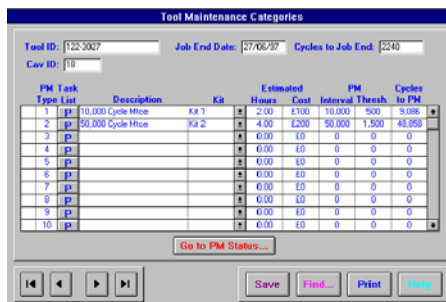
COST BENEFITS

Just like any other investment Tool-Track has to earn its keep and justify the money and time spent on it. The purpose of this document is to illustrate some of the key areas where these cost savings can be found.

• Increased Capacity

Tool-Track increases the amount of time that your tools and machines are available for production. If you are already working at full capacity you will be able to produce more with your existing plant. If you are working below full capacity you can achieve the same level of production in less time and at lower cost. Either way increased availability of plant and machinery means more profit. You may even avoid the necessity of investing in additional equipment or resource to meet demand. Variable costs such as labour and energy are kept as low as possible and fixed costs are spread over a larger number of jobs if downtime is reduced. Manufacturing costs go down and the resulting increase in competitiveness will help bring in new business. So how does Tool-Track help you to achieve this increase in your capacity ?

• Anticipate Problems with Better Planning

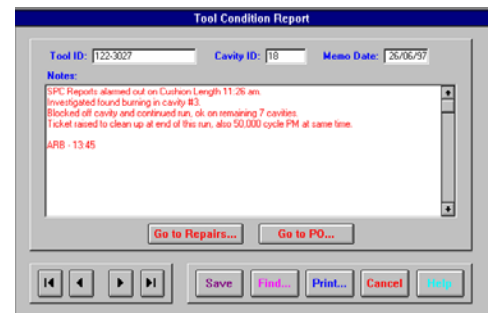


PM Task Type List	Description	Kit	Estimated Hours	Cost	Interval	Thresh.	PM Cycles to PM
1	10,000 Cycle Mice	Kit 1	2.00	£100	10,000	500	9,090
2	50,000 Cycle Mice	Kit 2	4.00	£200	50,000	1,500	46,959
3			0.00	0.00	0	0	0
4			0.00	0.00	0	0	0
5			0.00	0.00	0	0	0
6			0.00	0.00	0	0	0
7			0.00	0.00	0	0	0
8			0.00	0.00	0	0	0
9			0.00	0.00	0	0	0
10			0.00	0.00	0	0	0

With an effective planned maintenance regime you spend an hour avoiding a problem rather than two hours fixing it. And you spend that hour when **you** choose, e.g. between jobs or shifts, rather than being dictated to by the timing of a breakdown. You consume less material in avoiding breakdowns than in fixing them so material cost is reduced as well as labour. You avoid the scrap produced in the build-up to a break-down so quality and output benefit too. Tool-Track allows you to set up maintenance schedules optimised individually for each tool or machine, so you continuously improve the effectiveness of your maintenance plan as knowledge increases.

• Achieve Improvements through Increased Knowledge

Tool-Track maintains records of all important maintenance events, including time spent on planned maintenance and repairs, as well as usage of materials and external services. In addition to providing cost information it helps to identify areas for special attention. There are Tool and Machine Condition Reports which record detailed technical information on any actions taken. This provides a knowledge base that can be used to develop more effective maintenance planning and to measure the effect of any changes made to maintenance routines. Therefore guesswork is eliminated, to be replaced by a process of continual improvement.



Tool ID: 122-3027 Cavity ID: 16 Memo Date: 26/06/97

Notes:

SFC Reports alerted out on Cushion Length 11.26 am.
Investigated found burning in cavity #3.
Blocked off cavity and continued run, ok on remaining 7 cavities.
Ticket raised to clean up at end of this run, also 50,000 cycle PM at same time.

ARB - 13.45

Some of these benefits will take a while to materialise as you need to accumulate the data first before making informed decisions on what maintenance to plan, and at what frequency. The move from reactive maintenance to a more pro-active approach is gradual and continuous but Tool-Track will provide the data you need and also show you where your priority targets lie. It does this by underlining which of your tools and machines cost you the most to maintain and lose the most productive time for your manufacturing department. You can be sure that you are spending your time in the most cost-effective and beneficial way.



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• **Exception Reports**

Machine ID	Next PM Type	Hours to Next PM	Hours to Job End	Job End Date
101	1	160	160	22/07/96
102	2	4,320	0	11/07/96
103	3	8,760	195	23/07/96
104	1	164	533	12/07/96
105	1	150	5	11/07/96

Tool-Track includes Machine and Tool PM Exception Reports which show how many hours or cycles are left before the next Planned Maintenance is due. It also displays how many hours or cycles remain for completion of the current job. As a result you can carry out your maintenance at the same time as a job change or during a period of non-production for the tool or machine concerned. You should make this information available to all maintenance staff, either on screen or printed report, to ensure that they all work to the same priorities. In this way management effort is reduced through better communication.

The Inventory Exception Report warns of shortages of parts and consumables required for maintenance tasks. You define for each part a re-order threshold and minimum order quantity. You set up kits of parts to be associated with each PM task and also book parts against open repairs. This means that **Tool-Track** can calculate the difference between what you have and what you need and warn you of what items are in short supply. Consequently you get advance warning of problems which will reduce or even eliminate instances of machines or tools being unavailable to production because they are waiting for parts. You can either get the parts in good time or delay stopping production until the needed items arrive.

Part Number	Part Name	Vendor	Reorder Threshold	Current Quantity
X 110256	BUSHING BRASS	Precision Eng.	10	8
X 120471	PINS SPLIT	ABC Machines	10	5
X 12084657	Bearing T	Precision Eng.	50	44
X 5241660	Mercury Switch	Precision Eng.	40	37

All the above benefits increase your profitability by increasing the available production capacity. Downtime is reduced and quality improved by more effective preventative maintenance. Improved planning means that resources are used more efficiently and less management and administrative time are needed. However, on top of all this, **Tool-Track** saves even more money by helping to measure and control your variable costs.

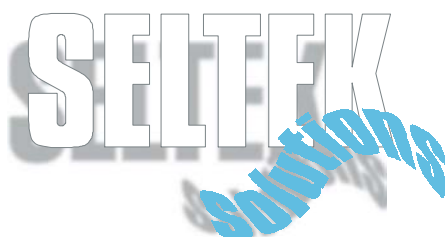
• **Improved Cost Control**

Tool-Track records full details of what you spend on your maintenance activities. You predict what time and materials you expect to use for each PM task but you can amend these figures if there is a variance when you come to do the work. You enter labour hours and materials associated with non-scheduled maintenance as well as any costs incurred with outside suppliers. When you update your labour rates or revise the cost of an inventory item **Tool-Track** uses the amended figures automatically, avoiding any clerical effort in updating the cost base. The Cost Reports can be for a single Tool or Machine, or Groups of Tools and Machines or all Tools and Machines. You can look at PM costs separately from Repair costs or combine the two. You can look over a range of time-scales or even the whole life of a Tool or Machine. And you can report on a Tool by Version or ECN reference which makes it easier to recharge for work carried out on Customer-owned tooling.

In general the reports will show you the true cost of maintaining specific tools or machines and will point you towards those that cost the most to maintain. This can help justify refurbishment or replacement of problematic equipment on financial as well as operational grounds. Substantial savings can be achieved in inventory costs by identifying slow- or non-moving stock. Parts common to more than one machine or tool can be identified within **Tool-Track** leading to lower stocking levels and reduced inventory costs. The more you know about where the money goes, the more easily you can ensure it is spent in the best way.

Summary of Cost Benefits of Tool-Track

- **More Productive Use of Plant & Equipment by Reducing Downtime**
- **Improved Product Quality from More Effective Preventative Maintenance**
- **Better Control of Maintenance Costs through Detailed Reporting**
- **Reduction in Inventory Costs by Closer Control**
- **More Management Time Available for Problem-Solving**



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