



Machine Ledger

The Machine ledger in PROTEUS MMX is a Manufacturing 4.0 feature developed to help manufacturers meet world class manufacturing excellence. It allows managers to monitor the maintenance of machinery revealing root causes failure reasons. It is viewed through the asset data and shows when maintenance occurred, when breakdowns occurred, when additional maintenance was done and when the scheduled maintenance was supposed to occur.

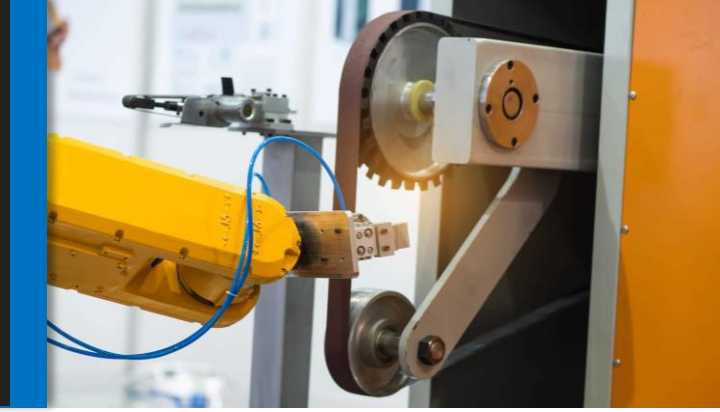
Preventive Maintenance can also be scheduled based on Run Time or machine controls information in real time. Machine Ledger will also track components within the complex machine for run time, replacement along with the maintenance data previously described. The visual format of the machine ledger over a running 52 weeks gives a clear picture of overall machine performance.

- Allows the user to view the history of component replacement within a specific piece of equipment.
- By breaking down the equipment's BOM into an expanded chart view, you can visualize all of the failures within a given year.
- You will also be able to view all scheduled and performed preventive maintenance.
- 52 weeks machine history overview

Benefits

- Monitors the maintenance of machinery
- Reveals root causes for failures
- Adds to the machine history

Machine Ledger



Screenshots of actual Proteus MMX Machine Ledger

	Start Date	05/07/2018	End Date	05/22/2018	Search		Work Order																																				
<ul style="list-style-type: none"> 1- Insufficient strength - Exter.. 2- Insufficient strength - Weabn.. 3- Increased load - External fact.. 4- Increased load - Lack of skill 5- Increased load - Lack of mainti.. 6- Increased load - Operating con.. 7- Increased load - Base condition.. 8- Wear - External factor 9- Wear - Lack of skill 10- Wear - Weakness of design 11- Wear - Lack of maintenance 12- Wear - Operating conditions ar.. 13- Wear - Basic condition not sup.. 	<div style="text-align: center;"> <p>Planned Maintenance Executed</p> <p>Unplanned Extra Maintenance Breakdown Maintenance</p> <p>Planned Maintenance</p> </div>																																										
	Year 2018 week(s)																		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
	Planned Maintenance & Breakdown Summary																																										
	Downtime [min]																																						30	0			
	Cumulative No																																						1	1			
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	Downtime [min]																																										
	Cumulative No																																										

Machine Ledger																		
Line: HHC_31_5	Machine: HHC_31_5_C (HHC_31_5 - Product Filling)	Bill of Materials: BOM_HHC_31_5 - Product Filling	Number	Drawing/Sketch/Picture	Part Number	Storeroom Location	Vendor	Inventory Classification	PM					AM		Quality	FI	
									UserField 1	UserField 2	UserField 3	UserField 4	UserField 5	UserField 6	UserField 7	UserField 8	UserField 9	UserField 10
			3509	<p>Air Pressure Regulator LR-1/4-D-MINI 162591</p>	3509	HPC Stockroom\HPC ..												
			3519	<p>Ball valve (VLS) manual (tap) 1/2 3-way TMBV050VT-CP</p>	3519													

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