MACHINE LEDGER - Professional Maintenance

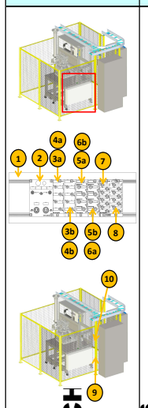
Combined Machine Ledger / PM Calendar 2021

OPERATION COMPLETED
EXTRA CYCLE
BREAKDOWN
PLANNED OPERATION

Machine name	Model No.	Manufacturer
IPS BORE GAGE MACHINE		JENOPTIK

SUPPLIER SECTION

Machine Diagram - Machine and Subassembly Diagram



IPS BORE GAGE MACH

OP38 FIELD DEVICES

Picture	Number	Name	Manufacturer	Manufacturer's Part No.	NPM Code	Crib Location	Cost of Component	Component classification A, B or C	Activity Frequency (weeks) and Based on Machine Cycle	Maintenance Time (min)	SMP#	TMS#	Machine Static/Dynamic	What	Who	Replacement Year	C-Consumable R-Repairable
	1	Module Rack 1000mm	Siemens	6ES7194-4GA00-0AA0				A									C
	2	Connection Module for Profinet Interface Module	Siemens	6ES7194-4AJ00-0AA0				A									C
	3 (2)	Electronic Module, 8 Digital Inputs,	Siemens	6ES7141-4BF00-0AA0				A									C
	4 (2)	Connection Module eMIT 2	Siemens	6ES7194-4GA00-0AA0				A									C
	5 (2)	Electronic Module, 4 IO-Link Master Channels	Siemens	6ES7147-4J00-0AB0				A									C
	6 (2)	Connection Module eMIT2 for IO Link	Siemens	6ES7194-4CA00-0AA0				A									C
	7	Electronic Module, 16 F-DI Inputs, 4 F-DO Outputs	Siemens	6ES7148-4FC00-0AB0				A									C
	8	Connection Module, 16 F-DO Inputs, 4 F-DO Outputs	Siemens	6ES7194-4DC00-0AA0				A									C
	9	4 Port RFID Controller	Balluff	BIS V 4-105-S45-C102				A									C
	10	IO Link 4-Segment Block Light With Buzzer	Balluff	BNI IOL-802-102-Z037				A									C
	11																
	12																

Subassembly Name

ROOT CAUSE: 1. External influences; 2. Lack of knowledge; 3. Design weakness; 4. Insufficient maintenance; 5. Operating conditions not observed; 6. Basic conditions not observed

Time (Minutes) / EWO or Kaizen Number / Root Cause Number

January	February	March	April	May	June	July	August	September	October	November	December
1 2 3 4 5	6 7 8 9	10 11 12 13 14	15 16 17 18	19 20 21 22	23 24 25 26 27	28 29 30 31	32 33 34 35 36	37 38 39 40	41 42 43 44 45	46 47 48 49	50 51 52
30 6 13 20 27	3 10 17 24	3 10 17 24 31	7 14 21 28	5 12 19 26	2 9 16 23 30	7 14 21 28	4 11 18 25	1 8 15 22 29	6 13 20 27	3 10 17 24	1 8 15 22

KPI

Total Breakdown Number	2014 TBF (hrs)	2013 Total # of Breakdowns	2013 Compost TBF (hrs)

Maintenance Evolution

First week in line year that task is typical	C- Change Construction Date	KAIZEN: indicate kaizen n.	PM=AM Transfer (indicate type of AM and CIL activity n.)	Maintenance type change (TBM/CBM) indicate old type -> new type	Frequency Update / Change Date	Frequency old -> new	Maintenance Time old -> new	Total Cost of Manpower	Total Component Cost
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00
								$0.00	$0.00

COST

Time / year (in minutes)	Replace time period (years)	Regular	Time +half 6/1/0	Double Time	Total Time / year (in minutes)	Total Replace time period (years)	total Regular	total Time +half	total Double Time
		44.79	67.18	89.59					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					
0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00					

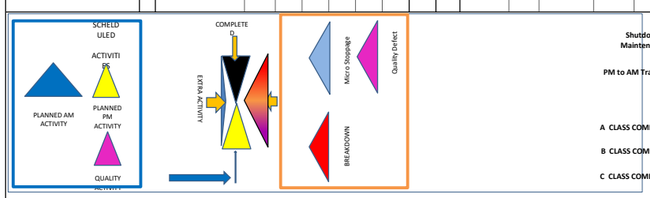
Do not need to print this section for calculation purposes only

Mircostops Week	1	2	3	4	5	6	7	8	9	10	11	12
Mircostops Time												
Mircostops Week	13	14	15	16	17	18	19	20	21	22	23	24
Mircostops Time												
Mircostops Week	25	26	27	28	29	30	31	32	33	34	35	36
Mircostops Time												
Mircostops Week	37	38	39	40	41	42	43	44	45	46	47	48
Mircostops Time												
Mircostops Week	49	50	51	52								
Mircostops Time												

Top Microstop issues			Total Manpower cost	$0.00
			Total Compost cost	$0.00

UNIT LEADER RESPONSIBLE FOR UPDATING COMPLETION % WEEKLY

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% Buy off



Shutdown Maintenance

PM to AM Transfer

A CLASS COMPONET — CANNOT RUN WITHOUT THIS

B CLASS COMPONET — Can still run

C CLASS COMPONET — No machine impact to functionality

A & B only on Mach Ledger