MACHINE LEDGER - Professional Maintenance

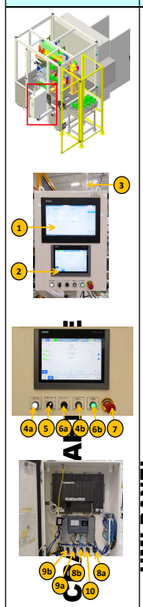
SUPPLIER SECTION

Machine name	Model No.	Manufacturer
INLINE CRANKSHAFT GAGE		JENOPTIK

Combined Machine Ledger / PM Calendar 2021

OPERATION COMPLETED
EXTRA CYCLE
BREAKDOWN
PLANNED OPERATION

Machine Diagram - Machine and Subassembly Diagram



INLINE GAGE

HMI PANEL

Subassembly Name	Picture	Component Number	Name	Manufacturer	Manufacturer's Part No.	NPM Code	Crib Location	Cost of Component	Component classification A, B, C	Activity Frequency (weeks) and Based on Machine Cycle	Maintenance Time (min)	SMP#	TMS#	Machine Static/Dynamic	What	Who	Replacement Year	R-C-Consumable Repairable
HMI PANEL		1	15.6" Monitor	Dynics	SKWV8PTUMDD				B									C
		2	TP-1200 12" HMI	Siemens	6AV2124-0MC01-0AX0				A									C
		3	Stack Light With Buzzer	Balluff	BNI IOL-802-102-Z037				B									C
		4 (2)	White Illuminated Pushbutton	Allen Bradley	800FP-LF7				B									C
		5	Selector Switch	Allen Bradley	800FP-SM22				B									C
		6 (2)	Green Illuminated Pushbutton	Allen Bradley	800FP-LF3				B									C
		7	Lockable Emergency Stop Pushbutton 22mm	Ross	22102-122				B									C
		8 (2)	Contact Block, Green LED	Allen Bradley	800F-PN30X10				B									C
		9 (2)	Contact Block, White LED	Allen Bradley	800F-PN3WX10				B									C
		10	Contact Block	Allen Bradley	800F-PX21				B									C
		12																

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

Time (Minutes)
EWO or Kaizen Number
Root Cause Number

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

KPI: Total Breakdown Number; TBF (hrs); Total # of Breakdowns; Component TBF (hrs)

Maintenance Evolution: 2014 / 2013; Type of Improvement: First week in (this) year that task is in (left); Change Calibration 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; Parameter change: Frequency Update/ Change Date; Frequency: old -> new; Maintenance Time (min) -> new

COST: Total Cost of Manpower; Total Component Cost; Time / year (in minutes); Replacement time period (years); Regular; Time-match 67-18; Double Time

	Regular	Time-match 67-18	Double Time
Replacement time period (years)	44.79	57.15	89.59

total cost / component: Total Time / year (in minutes); Total Replace time period (years); total Regular; total Time-match; total Double Time

Do not need to print this section for calculation purposes only

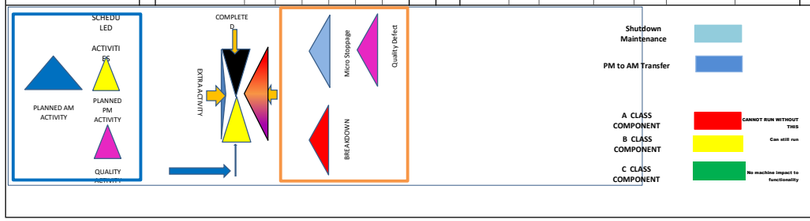
Mircostops Week											
	1	2	3	4	5	6	7	8	9	10	11	12
Mircostops Time												
Mircostops Week	13	14	15	16	17	18	19	20	21	22	23	24
Mircostops Time												
Mircostops Week	25	26	27	28	29	30	31	32	33	34	35	36
Mircostops Time												
Mircostops Week	37	38	39	40	41	42	43	44	45	46	47	48
Mircostops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

Top Microstop issues

Total Manpower cost: $0.00
Total Component 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 COMPONENT — CANNOT RUN WITHOUT THIS
B CLASS COMPONENT — Can still run
C CLASS COMPONENT — No machine impact to functionality