MACHINE LEDGER - Professional Maintenance

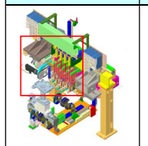
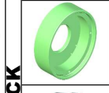
Machine name: INLINE CRANKSHAFT GAGE | Model No. | Manufacturer: JENOPTIK

SUPPLIER SECTION

Combined Machine Ledger / PM Calendar 2021

OPERATION COMPLETED | EXTRA CYCLE | BREAKDOWN | PLANNED OPERATION

OP118 HEADSTOCK

Machine Diagram - Machine and Subassembly Diagram	Subassembly Name	Component: Picture	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
	HEADSTOCK		1 (3)	Proximity Sensor	Baluff	BES M12MF3-PSC40B-S04G				A									C
			2	Standard Cylinder	Festo AG & Co. KG	DSBC-32-50-C-PPVA				A									R
			3	Axial Cylinder Roller with Cage Assembly	Josef Rehberger GmbH & Co. KG	K81114 TN				B									C
			4	Axial Cylinder Roll Bearing	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	81114 TN				B									C
			5	Flange Encoder	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	10068136				B									C
			6	Incremental Encoder	Heidenhain	ERN 1339003 (10072129)				A		As	16	P17		Static	Replace	ELEC	C
			7	Synchronous Servo Motor	Siemens AG	1FK7022-5AK71-1LH3				A		As	22	P19		Static	Replace	ELEC	R
			8	Synchronous Belt PC2	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	PC2 8M/37-20-12 (10039140)				A		187200 CY	7.5	P21		Static	Inspect	MTMM	C
												As	12	P22		Static	Rebuild	MTMM	
												As	20	P23		Static	Replace	MTMM	
			9	Planetary Gear	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	PLE80-100/Siemens 1FK7022-5AK71 (6509651)				A		As	41	P20		Static	Replace	ELEC	C
			10	Clamping Set	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	559839				B									C
			11	Disc Spring	CENTURY SPRING	10 x 4.2 x 0.4 DIN2093				A									C
			12																C

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

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

January (1–5) | February (6–9) | March (10–14) | April (15–18) | May (19–22) | June (23–27) | July (28–31) | August (32–35) | September (36–40) | October (41–44) | November (45–48) | December (49–52)

KPI: Total Breakdown Number | 2014: TBF (hrs) | 2013: Total # of Breakdowns | Compont TBF (hrs)

Maintenance Evolution: First week in Indy year that task is to start? | Type of Improvement: 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: old-> new

COST: Total Cost of Manpower | Total Component Cost | Time / year (in minutes) | Replace time period (years) | Regular | Time-motif 5 YR | Double Time | Total Time / year (in minutes) | Total Replace time period (years) | total Regular | total Time -Half | total Double Time

total cost / component

	Time / year (in minutes)	Replace time period (years)	Regular	Time-motif 5 YR	Double Time
	0.00	N/A	0.00	0.00	0.00
	0.00	N/A	0.00	0.00	0.00

	Total Time / year (in minutes)	Total Replace time period (years)	total Regular	total Time -Half	total Double Time
	0.00	0.00	0.00	0.00	0.00

Do not need to print this section for calculation purposes only

SCHEDULED ACTIVITIES | PLANNED AM ACTIVITY | PLANNED PM ACTIVITY | QUALITY ACTIVITY | TOTAL ACTIVITY | COMPLETE | Micro Stoppage | Quality Defect | BREAKDOWN

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

UNIT LEADER RESPONSIBLE FOR UPDATING COMPLETION % WEEKLY

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

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: #VALUE! | Total Compont cost: #VALUE!