MACHINE LEDGER - Professional Maintenance

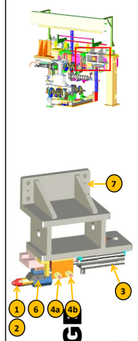
Machine name: INLINE CRANKSHAFT GAGE | **Model No.:** | **Manufacturer:** JENOPTIK

SUPPLIER SECTION

Combined Machine Ledger / PM Calendar 2021

OPERATION COMPLETED | EXTRA CYCLE | BREAKDOWN | PLANNED OPERATION

Machine Diagram - Machine and Subassembly Diagram



INLINE CRANKSHAFT GAGE

OP128 TAILSTOCK

Subassembly Name	Picture	Number	Name	Manufacturer	Manufacturer's Part No.	NPR 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-Consumable Repairable
		1	Centering Tip	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	69380				A	As	15	P24		Static	Replace	MTMM		C
		2	Infrared Temperature Measurement DM301D	B+B THERMO-TECHNIK GMBH	DM301D				A									C
		3	Standard Cylinder	Festo AG & Co. KG	DSBC-32-50-C-PPVA				A	As	49	P23		Static	Replace	MTMM		R
		4 (2)	Proximity Switch	BALLUFF GmbH	BES 516-325-G-E5-C-S4				A									C
		5	PT100 Sensor	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	PT100				A									C
		6	Sensor Module PT100 0..100°C SET B+B	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	PT100 0..100°C SET B+B				A									C
		7	Traverse	JENOPTIK INDUSTRIAL METROLOGY (GERMANY)	69380				B									C
		8																C
		9																C
		10																C
		11																C
		12																C

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

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

Maintenance Evolution

Type of Improvement: First week in this year that task is to start	Type of Improvement: C-Change Out Date	Type of Improvement: KAIZEN: indicate kaizen n.	Type of Improvement: PM=>AM Transfer: (indicate type of AM: and CIL activity n.)	Type of Improvement: Maintenance type change (TBM/CBM): indicate old type -> new type	Parameter change: Frequency (Under / Over) Date	Parameter change: Frequency old -> new	Parameter change: Maintenance Time: old -> new	Total Cost of Manpower	Total Component Cost
								#VALUE!	#VALUE!
								$0.00	$0.00
								#VALUE!	#VALUE!
								$0.00	$0.00
								#VALUE!	#VALUE!
								$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

Timer - year (in minutes)	Replace time period (years)	Regular	Time +half 67.19	Double Time
		44.79	67.19	89.59
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
0.00	N/A	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
0.00	N/A	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	N/A	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	N/A	0.00	0.00	0.00
0.00	N/A	0.00	0.00	0.00

total cost / component

Time / year (in minutes)	Total Replace time period (years)	Total Regular	Total half	Total Double Time
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Do not need to print this section for calculation purposes only

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

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 Compost cost: #VALUE!

A & B only on Mach Ledger