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**TURNKEY FLOUR MILLS.SINCE 1955**  
FLOUR MILL MAINTENANCE

**WELCOME**  
**GARIP CANTEMIR**  
**SALES&MARKETING DIRECTOR**



# WHO IS UĞUR PROMILLING





# UGUR PROMILLING ESTABLISHED IN 1955 IN TURKEY

- COMPLETED +500 TURNKEY PROJECT ALL OVER THE WORLD
- EX-PORTS OVER +120 CONTRIES
- USE LATEST PRODCUTION TECHNOLOGIES
- TURN-KEY FLOUR MILLS PROJECT
- TURN KEY WHEAT SEMOLINA MILL PROJECT
- TURN KEY MAIZE FLOUR MILL PROJECT
- TURN KEY MAIZE SEMOLINA MILL PROJECT
- DESIGN AND BUILD STEEL BUILDING,PORT PROJECT, AUTOMATION SYSTEM

## FLOUR MILL MAINTENANCE

- Flour Mills Used to work 6 Days a Week and keeping one Day for maintenance.
- \*Now Most mills are running 7 Days 24Hrs.
- \*Maintenance schedule time Increased and Flour Mills Become Busier.

## ***METHODS OF MILL MAINTANANCE***

### ***WHY THE MAINTENANCE IMPORTANT?***

- KEEP THE MILL RUNNING
  - KEEP THE MILL CLEAN(DUST AND BUG FREE OPERATION)
  - MINIMIZE THE DOWN TIME
  - MAXIMIZE THE UPTIME
  - KEEP THE YIELD (EXTRACTION AS EXPECTED)
-

# KEEP THE MILL RUNNING







# KEEP THE MILL CLEAN&BUG FREE



# MINIMUM DOWN TIME&MAXIMUM UP TIME







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KEEP THE YIELD MAXIMUM



## 1-CORRECTIVE MAINTANNACE (EMERGENCY MAINTENANCE)

- This Kind of Maintenance, Break down or Repair Maintenance, If some machinery break down, chock we need to repair it.
- This kind of Maintenance Loosing Production time.
- It can damage the other machinery and equipment's during the break Down.











## 2-SCHEDULED MAINTENANCE(PERIODICAL)

- Aim is Minimize the Emergency Maintenance.
- It Will improve Strength before any Break down.
- Avoiding break down during the operation.
- Daily Maintenance
- Weekly maintenance
- Long Term Maintenance

- Periodic Maintenance As;
- -Inspection
- -Adjusting
- -Replacing

## DAILY INSPECTION SUCH AS;

- Inspecting Dust, Temperature, Humidity, Vibration, Noise, Corrosion.
  - Maintenance.
  - -Our aim is Bug and Dust Free operation
  - -Checking Magnets and cleaning if has not self cleaning system.
  - -Checking All the Belts and making Adjustments. -
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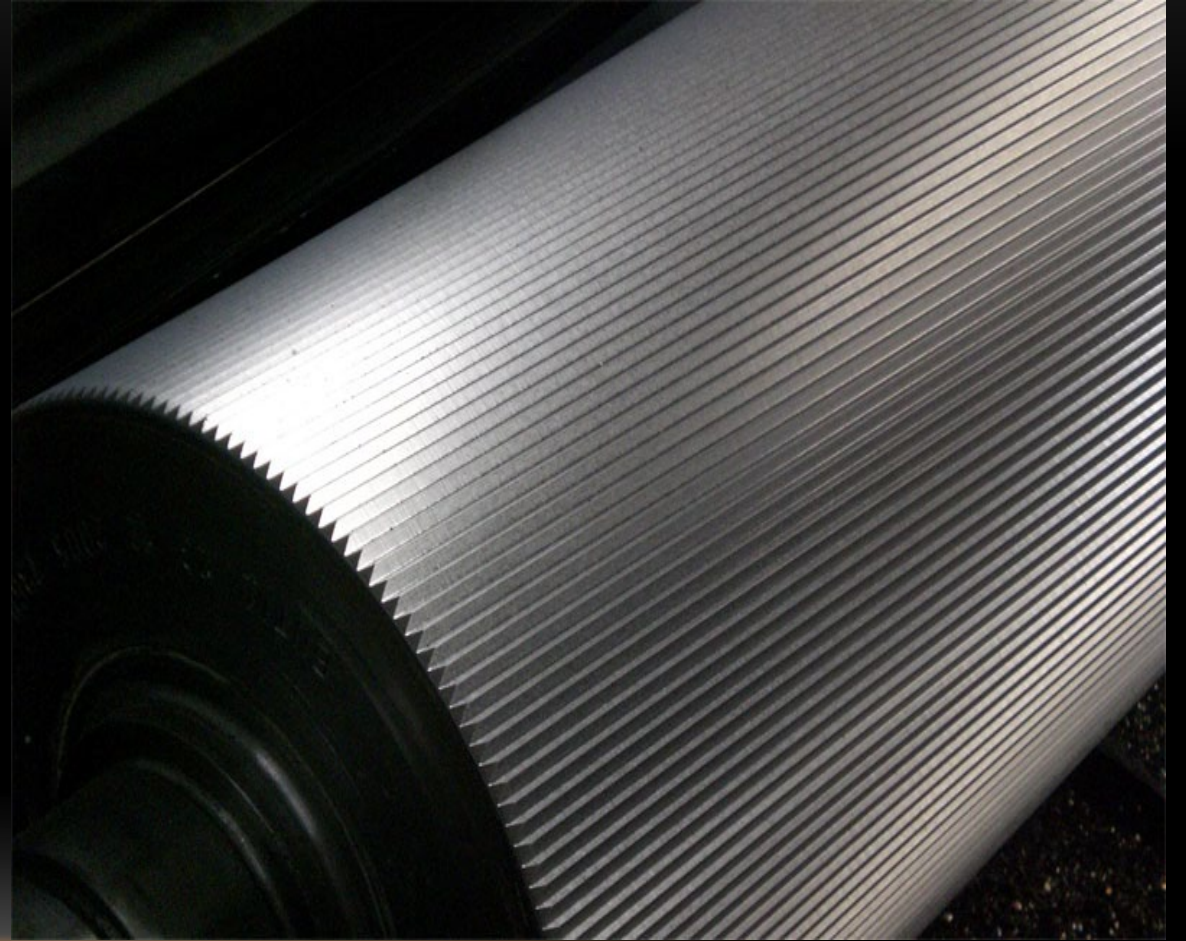
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## ROLLS SAND BLASTING&REFLUTING





# CHECKING SIEVES









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- Checking Compressors. We need Good Drier for compressor. Water can damage the Pneumatic components.
- \*Checking Bearing Temperature.
- Checking and cleaning Magnets
- \*Checking Balance on Machinery Like Pneumatic Fan, Entoleter which machinery speed 3.000 Rpm. If there is Balance on Machinery It will damage on Housing, It will heat also Bearings.
- \*Maintain and adjusting Rolls, Scrapers, Brushes and cleaning feed Rolls. Checking Position of Rolls.

- Checking Surface of Smooth Rolls
- Checking sifters, In Long term checking Sifter sieve, Sifter cleaners.
- Checking Purifiers, Make sure brushes are working, Mechanical Inspection make sure changing wearing parts.
- Making sure filter are functioning, Checking airlocks and pneumatic lines,
- Finished Product silos has to be completely empty and cleaned time to Time.
- All mixing and dosing scale has to be checked
- Calibration of Truck scales has to be made regularly.
- Leakage on Pipes, Air valve has to be checked Also.







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## PLANNING THE MAINTANANCE

- Need to have good trained team.
- Computer system can be useful for records.
- Lost of computer Program has got lots of activities like maintenance task,
- Work orders.
- Equipment's story.( Serial Number, Capacity, Motor Power etc)
- Critical Spare Parts has to be in Stock.
- Supplier of Spares has to be on record, Life time and performance is important.



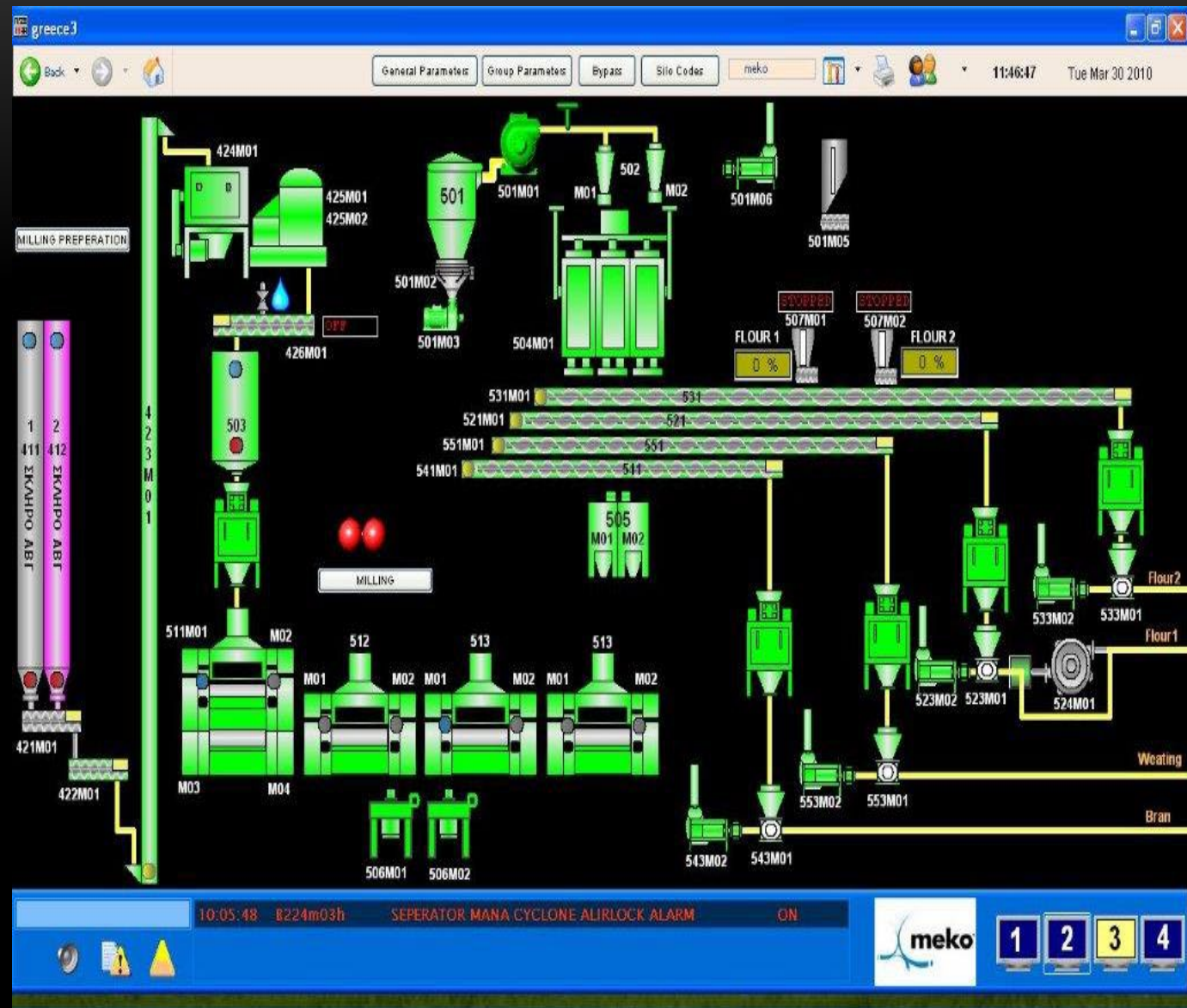
SORT	MACHINE CODE	MACHINE NAME	EARLY NOTICE	MAINTENANCE PERIOD	RUN TIME	TIME TO MAINTENANCE	USER
51	114M01	CHAIN CONVEYOR	40 Hour	300 Hour	623 Hour 43 Minute	-323 Hour -43 Minute	Administrator
52	124M01	CHAIN CONVEYOR	40 Hour	300 Hour	623 Hour 15 Minute	-323 Hour -15 Minute	Administrator
53	113M01	CHAIN CONVEYOR	40 Hour	300 Hour	622 Hour 48 Minute	-322 Hour -48 Minute	Administrator
54	304M01	HAMMER MILL	40 Hour	300 Hour	547 Hour 6 Minute	-247 Hour -6 Minute	Administrator
55	614M01	1.PELET MAIN MOTOR	40 Hour	300 Hour	472 Hour 8 Minute	-172 Hour -8 Minute	Administrator
56	134M01	4.STEEL SILO DISCHARGE CONVEYOR	40 Hour	300 Hour	448 Hour 47 Minute	-148 Hour -47 Minute	Administrator
57	137M01	7.STEEL SILO DISCHARGE CONVEYOR	40 Hour	300 Hour	399 Hour 33 Minute	-99 Hour -33 Minute	Administrator
58	136M01	6.STEEL SILO DISCHARGE CONVEYOR	40 Hour	300 Hour	364 Hour 23 Minute	-64 Hour -23 Minute	Administrator
59	143M01	ROLLER MILL	40 Hour	300 Hour	354 Hour 15 Minute	-54 Hour -15 Minute	Administrator
60	144M01	UNDER ROLLER MILL BIN	40 Hour	300 Hour	350 Hour 48 Minute	-50 Hour -48 Minute	Administrator
61	135M01	5.STEEL SILO DISCHARGE CONVEYOR	40 Hour	300 Hour	337 Hour 10 Minute	-37 Hour -10 Minute	Administrator
62	231M02	1.DOSING SILO ROTOFLOW	40 Hour	300 Hour	312 Hour 2 Minute	-12 Hour -2 Minute	Administrator
63	232M01	2.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	311 Hour 38 Minute	-11 Hour -38 Minute	Administrator
64	231M01	1.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	304 Hour 59 Minute	-4 Hour -59 Minute	Administrator
65	142M01	ROLLER MILL FEEDER	40 Hour	300 Hour	273 Hour 47 Minute	26 Hour 13 Minute	Administrator
66	841M01	MICRO DOSING LIFT	40 Hour	300 Hour	245 Hour 5 Minute	54 Hour 55 Minute	Administrator
67	216M01	6.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	233 Hour 21 Minute	66 Hour 39 Minute	Administrator
68	242M01	METHIONINE PUMP	40 Hour	300 Hour	214 Hour 24 Minute	85 Hour 36 Minute	Administrator
69	232M02	2.DOSING SILO ROTOFLOW	40 Hour	300 Hour	195 Hour 25 Minute	104 Hour 35 Minute	Administrator
70	241M01	OIL PUMP	40 Hour	300 Hour	194 Hour 51 Minute	105 Hour 9 Minute	Administrator
71	212M01	2.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	182 Hour 34 Minute	117 Hour 26 Minute	Administrator
72	218M01	8.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	173 Hour 9 Minute	126 Hour 51 Minute	Administrator
73	213M01	3.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	155 Hour 47 Minute	144 Hour 13 Minute	Administrator
74	219M01	9.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	131 Hour 10 Minute	168 Hour 50 Minute	Administrator
75	214M01	4.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	130 Hour 3 Minute	169 Hour 57 Minute	Administrator
76	814M01	4.MICRO DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	128 Hour 15 Minute	171 Hour 45 Minute	Administrator
77	215M01	5.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	105 Hour 42 Minute	194 Hour 18 Minute	Administrator
78	156M01	ELEVATOR	40 Hour	300 Hour	94 Hour 44 Minute	205 Hour 16 Minute	Administrator
79	251M01	1.DOSING SCALE DISCHARGE CHAIN CONVEYOR	40 Hour	300 Hour	84 Hour 37 Minute	215 Hour 23 Minute	Administrator
80	818M01	8.MICRO DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	58 Hour 21 Minute	241 Hour 39 Minute	Administrator
81	217M01	7.DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	45 Hour 43 Minute	254 Hour 17 Minute	Administrator
82	832M01	MICRO DOSING SCALE DISCHARGE MOTOR	40 Hour	300 Hour	29 Hour 7 Minute	270 Hour 53 Minute	Administrator
83	816M01	6.MICRO DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	20 Hour 56 Minute	279 Hour 4 Minute	Administrator
84	815M01	5.MICRO DOSING SILO DISCHARGE SCREW	40 Hour	300 Hour	20 Hour 18 Minute	279 Hour 42 Minute	Administrator
85	155M01	ELEVATOR	40 Hour	300 Hour	16 Hour 49 Minute	283 Hour 11 Minute	Administrator
86	154M01	SCREW CONVEYOR	40 Hour	300 Hour	16 Hour 26 Minute	283 Hour 34 Minute	Administrator

	DATE	INFO	MAINTENANCE PERIOD	TOTAL RUN TIME	PREVIOUS MAINTENANCE	RUN TIME	REMAINING TIME	USER	Note - Active

## 2.DOSING SILO DISCHARGE SCREW

MAINTENANCE PERIOD : 300  
EARLY NOTICE : 40  
MACHINE CODE : 232M01  
PLC IP ADDRESS : 192.168.0.1  
PLC ADDRESS : 17010  
TOTAL RUN TIME : 311 Hour 38 Minute  
PREVIOUS MAINTENANCE : 0 Hour  
RUN TIME : 311 Hour 38 Minute  
TIME TO MAINTENANCE : -11 Hour -38 Minute

☐ FilterSearch the Machin : 



## HOW CAN WE SAVE ON MILL MAINTANCE

- Flour Milling Machinery need Daily maintenance.
- Aim of maintenance
- Maximum Uptime
- Minimum Break Time
- For This;
- We have to Optimize Running Cost and Minimize it.
- We can keep the performance of Machinery.
- Keep The Extraction(Yield)



- Expected Life time of Machinery and Equipment's Increases. About 8 to 10 Years
- Break Down Time Will be reduced like 25-30% and labor cost will be decrease
- Production Loss decreases 20-25%
- Quality of the product will be kept the same.
- It will be saving 15 to 20% from stock cost of Spare parts.
- Saving on energy cost 3 to 5%



- THANK YOU FOR LISTENING
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- [gcantemir@ugurpromilling.com](mailto:gcantemir@ugurpromilling.com)