AGMTECH®

ADVANCED GLOBAL MACHINERY TECHNOLOGY

**YOUR RELIABLE SOLUTION PARTNERS. BEST QUALITY SPARE PARTS FOR ANY BRAND.**

# WELCOME

GARIP CANTEMIR

GENERAL MANAGER

# SAVING ON FLOUR MILL MAINTENANCE

Flour Mills Used to  works 6 Days a Week and keeping one Day for maintenance.

*Now Most mills are running 7 Days 24Hrs.

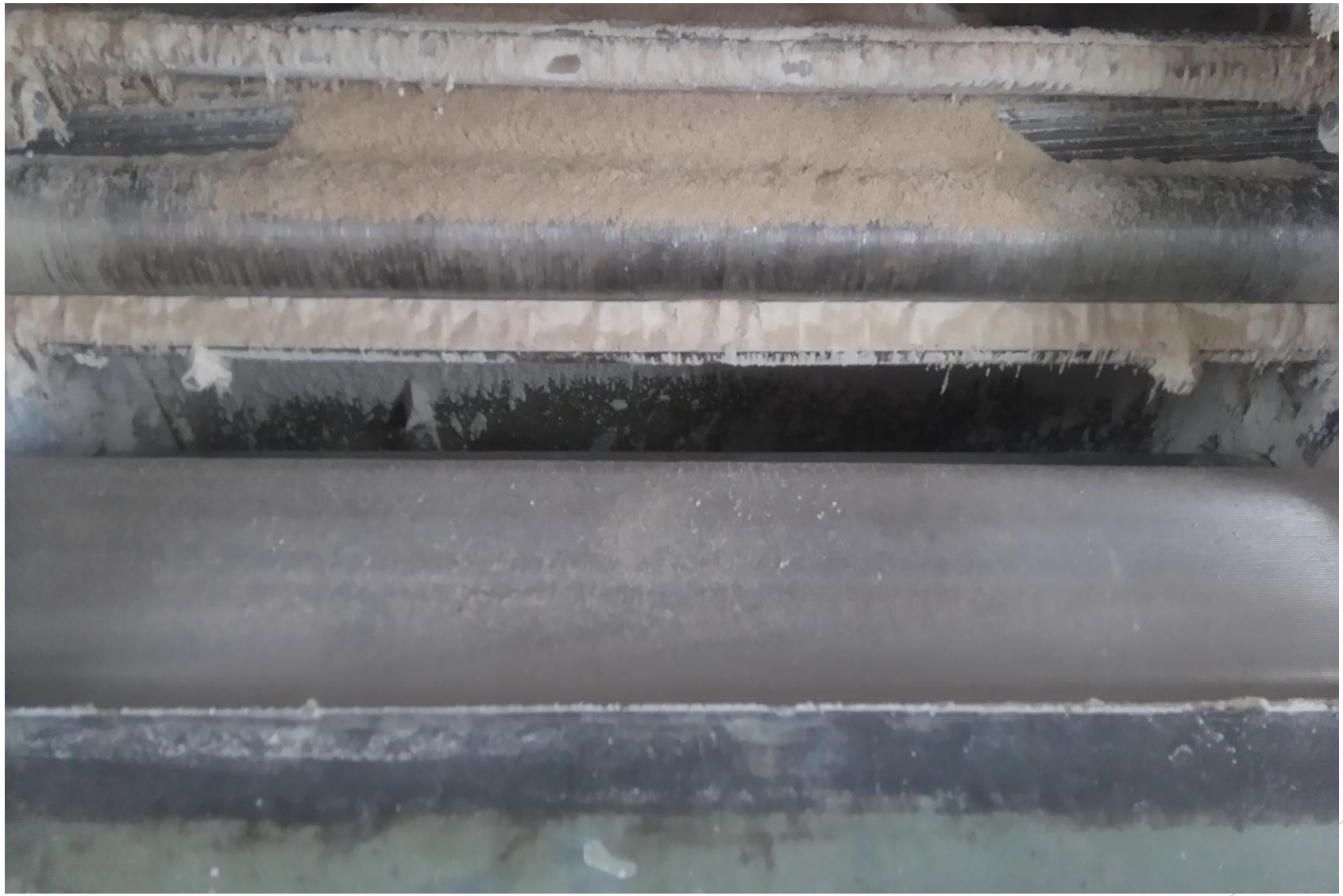
*Maintenance schedule time Increased and Flour Mills Become Busier.

# METHODS OF MILL MAINTANANCE
# WHY THE MAINTENANCE IMPORTANT?

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

# 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.



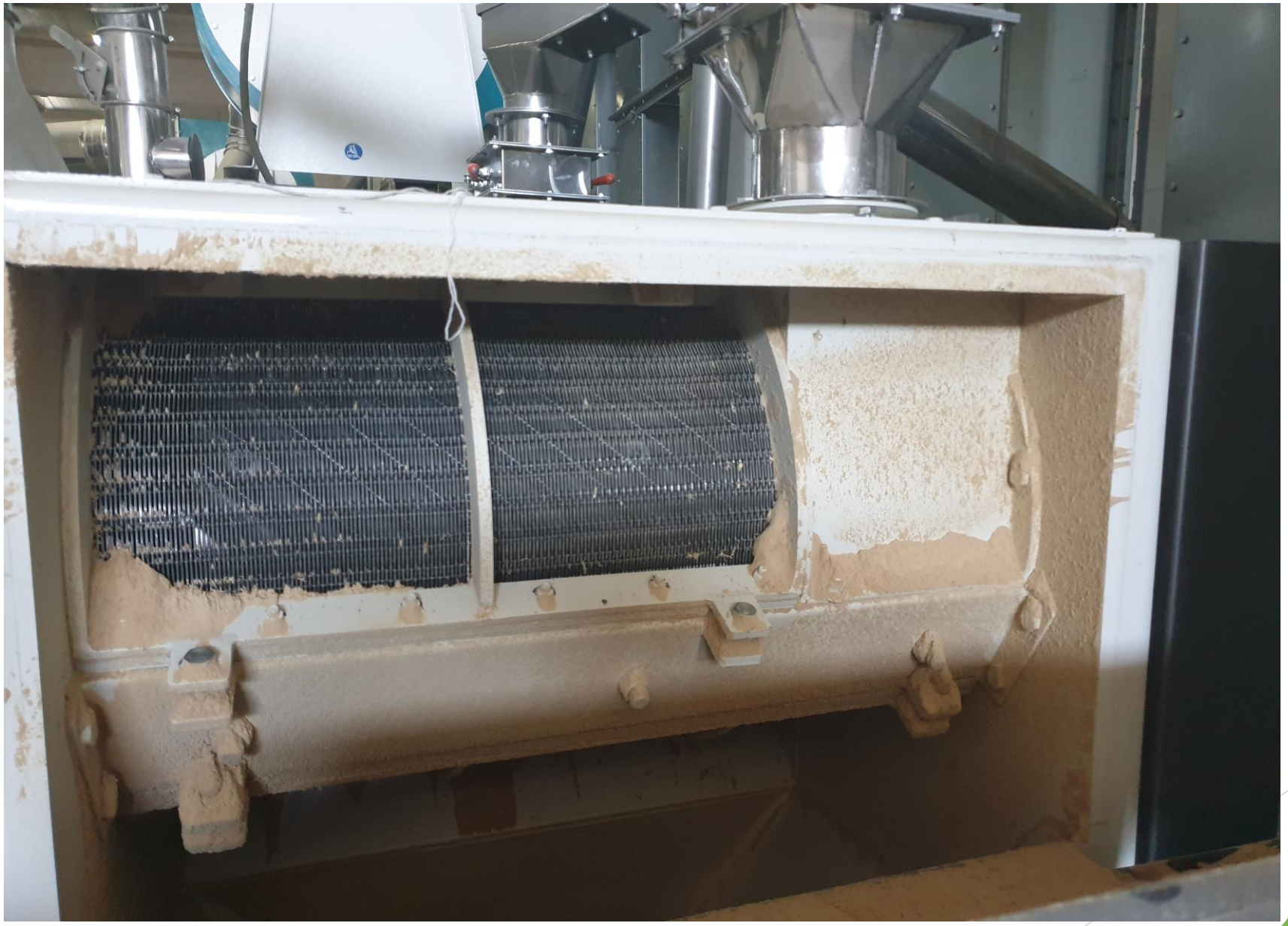
# 2-SCHEDULED MAINTENANCE(Periodical)

- 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.
- -



- Checking Compressors. We need Good Drier for compressor.  Water can damage the Pneumatic components.
- *Checking Bearing Temperature.
- *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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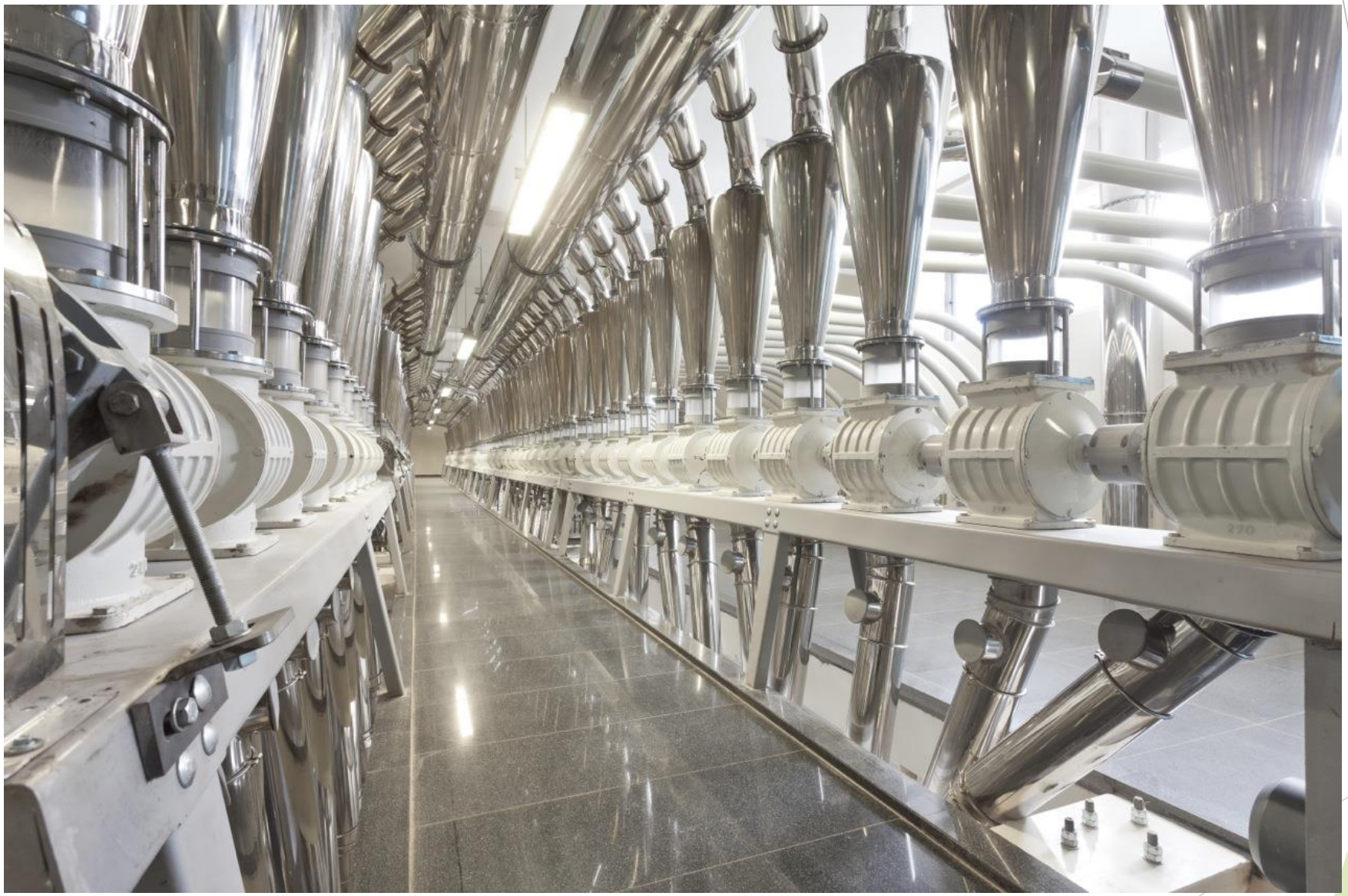


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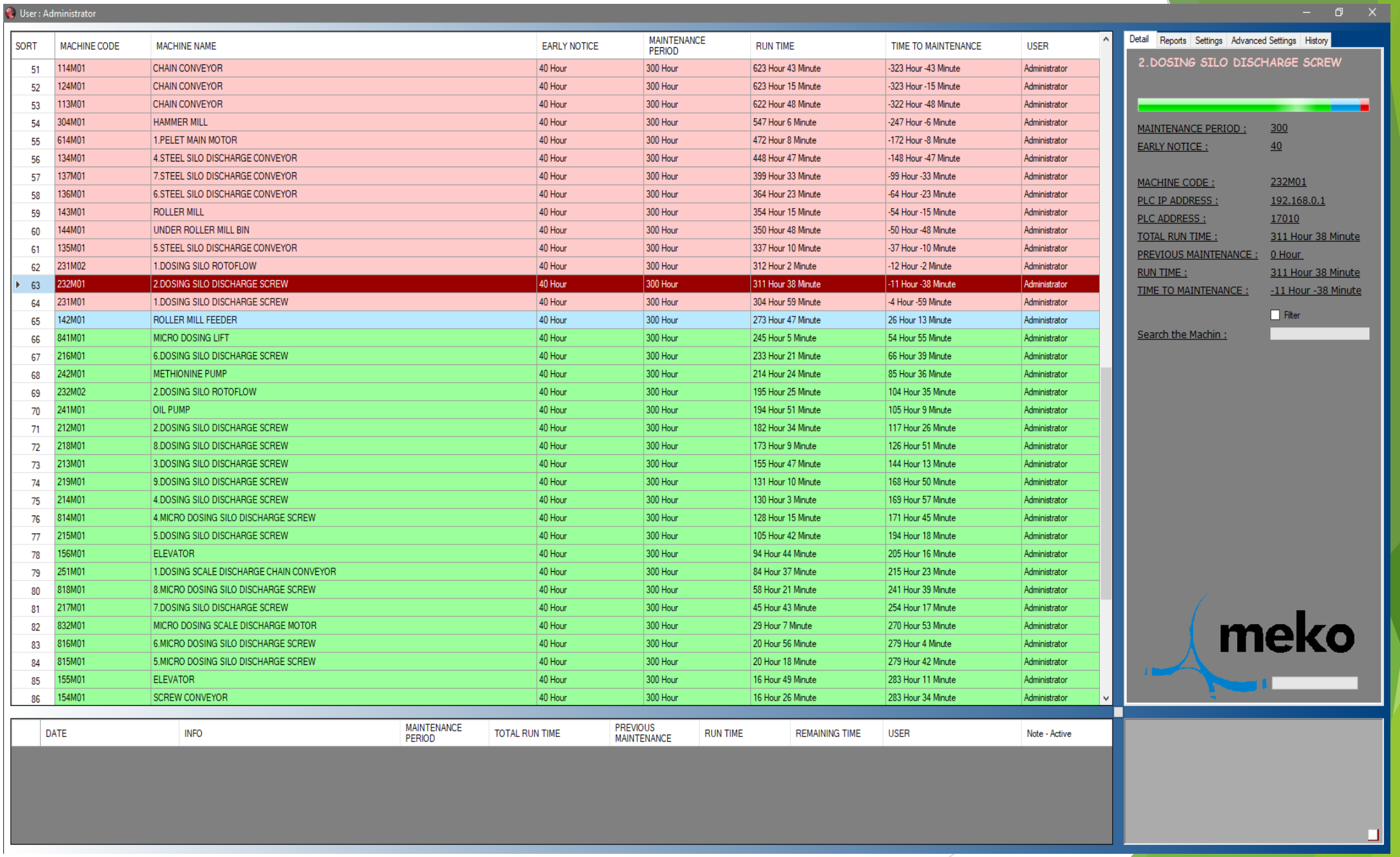
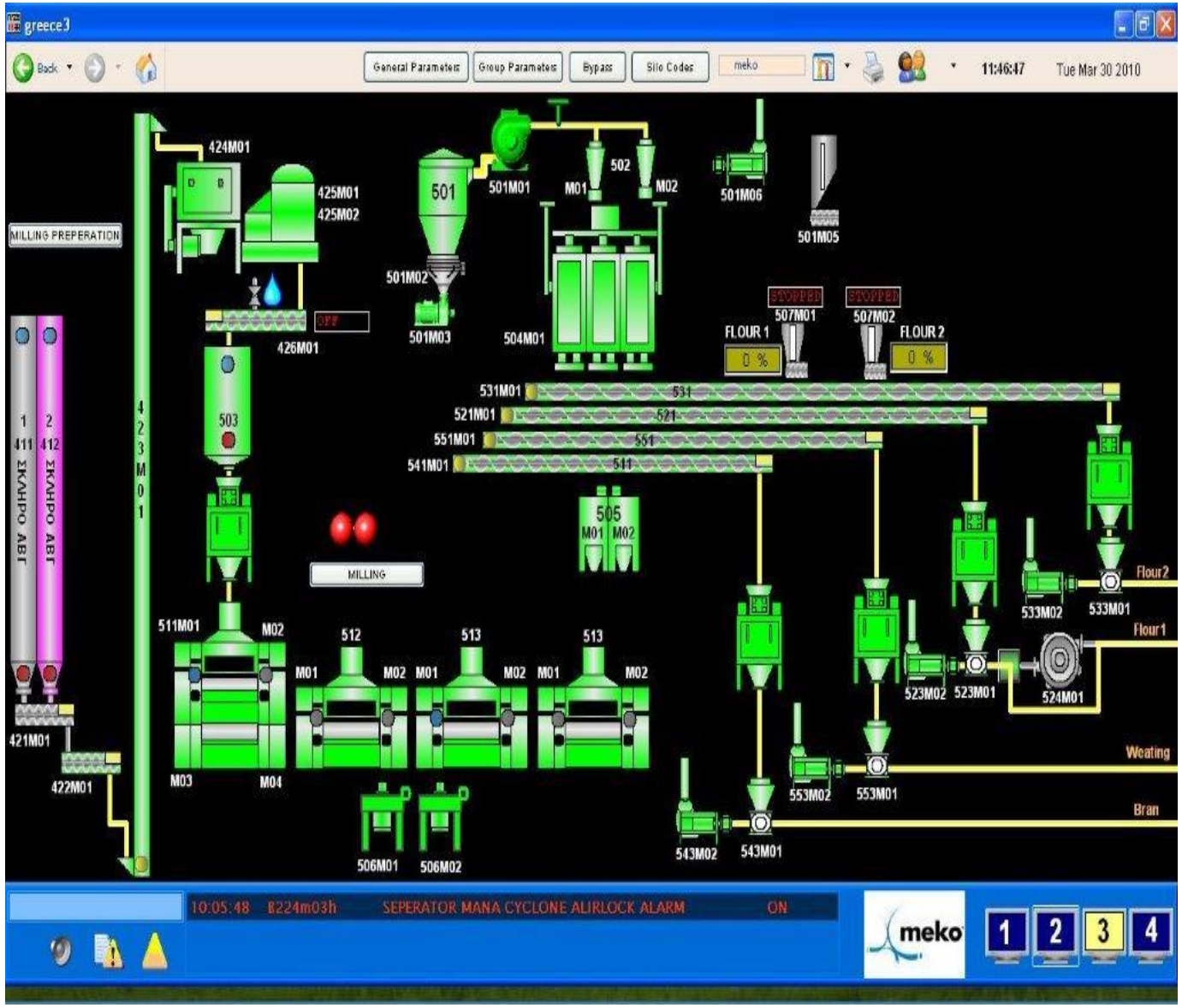
# PLANNING THE MAINTANANCE

- 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.


User : Administrator
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
Detail
Reports
Settings
Advanced Settings
History
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
Filter
Search the Machin :
meko
DATE
INFO
MAINTENANCE PERIOD
TOTAL RUN TIME
PREVIOUS MAINTENANCE
RUN TIME
REMAINING TIME
USER
Note - Active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General Parameters
Group Parameters
Bypass
Silo Codes
meko
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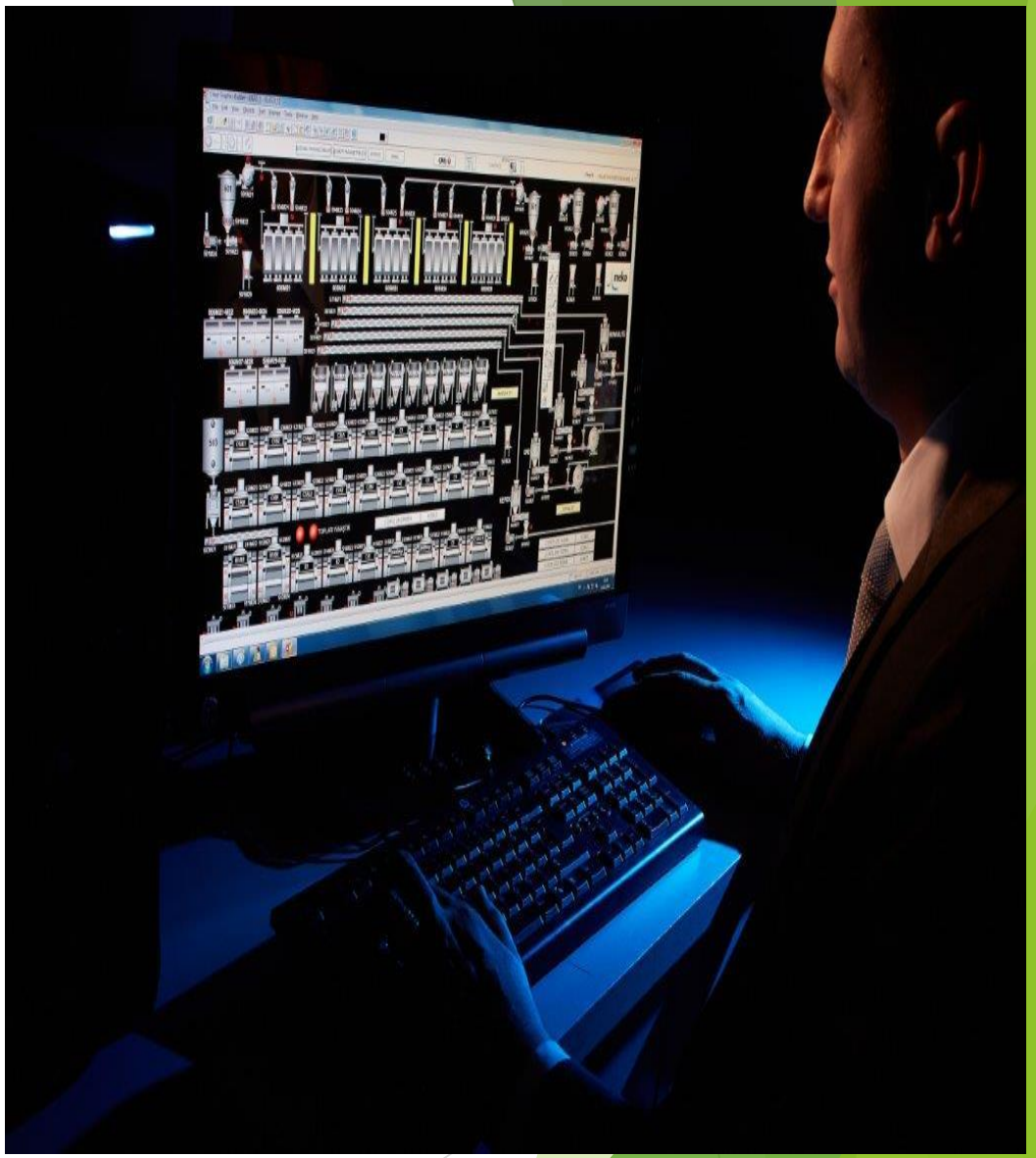
Tue Mar 30 2010
MILLING PREPERATION
424M01
425M01
425M02
426M01
501
501M01
501M02
501M03
502
M01
M02
504M01
501M06
501M05
STOPPER
507M01
507M02
FLOUR 1
FLOUR 2
0 %
531M01
531
521M01
521
551M01
551
541M01
541
503
505
M01
M02
MILLING
423M01
1
411
ΣΚΛΗΡΟ ΑΒΓ
2
412
ΣΚΛΗΡΟ ΑΒΓ
421M01
422M01
511M01
M02
512
513
513
M01
M02
M03
M04
506M01
506M02
533M02
533M01
Flour2
Flour1
523M02
523M01
524M01
Weating
553M02
553M01
Bran
543M02
543M01
10:05:48
8224m03h
SEPERATOR MANA CYCLONE ALIRLOCK ALARM
ON
meko
1
2
3
4



# 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