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The Mill in Your Hands

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I - MILL

OCRIM @mill
@MOBILE PACK

OCRIM
ENERGY SAVING PACK

OCRIM
Control
Manage
Operate
DOMOTICS PACK

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@mill
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@MOBILE PACK

PLANT MONITORING

iPad2

YIELDS
PLANT PERFORMANCES

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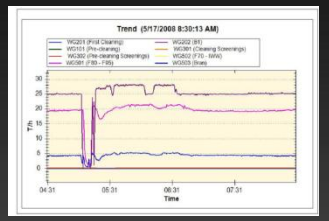
REPORTS



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ENERGY SAVING PACK

- Adjustable Consumption Limits for Band
- Alarms for Excessive Consumption
- Controlled Sections Stops
- Controlled Sections Restart
- Energy Consumption Forecasts
- Periodic Consumption Report
- Production and Consumption Cross Reference

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OCRIM DOMOTICS PACK
Control
Manage
Operate

- Domotics Lighting System Control
- Intelligent Switch OFF - ON
- Manage with Programmable Timer
- Floors Inspection with CCTV Survelliance System
- Record Security Cameras Datas

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iMill.ppsx

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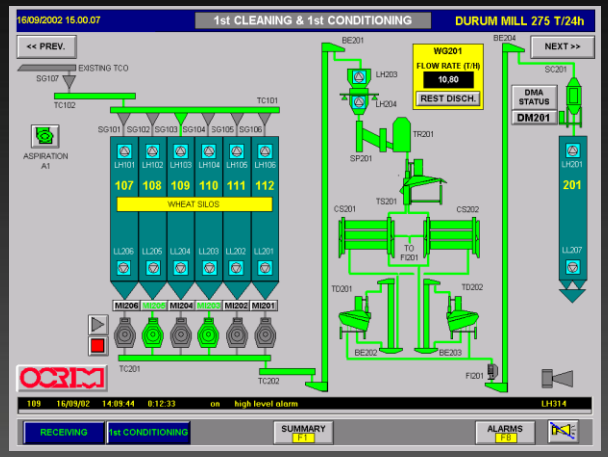
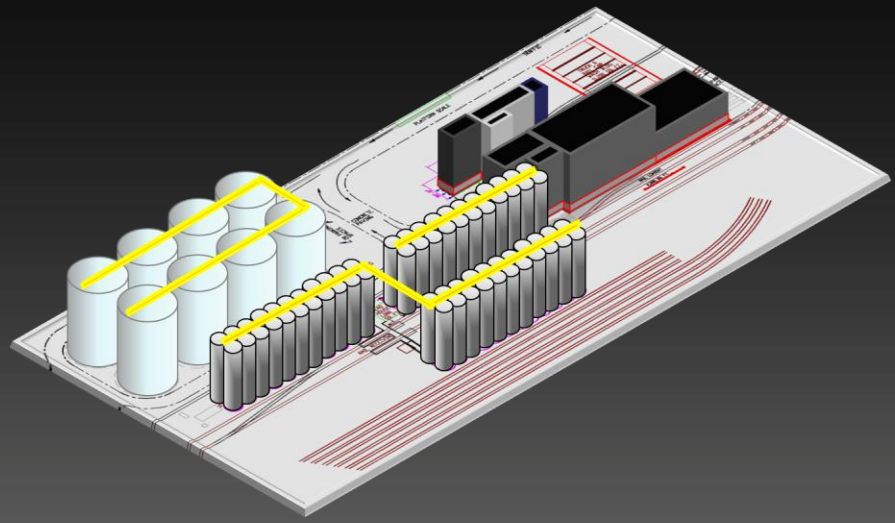
- MODULAR SYSTEM FOR PROCESS MANAGEMENT
- DEVELOPED IN OCRIM WITH ADVANCED TECHNOLOGIES
- EASY TO IMPLEMENT FOR ANY MILLS, PRODUCT STORAGE, FEEDMILLS AND FOOD INDUSTRY





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STOCK MONITOR

- Stock Updating in real time for each grain bin with Lot Product Archive
- Quantity Level Data = Previous Quantity + FlowIn - FlowOut
- Statistics, Daily Level Changes and Manual Adjusting
- Reordering Policy

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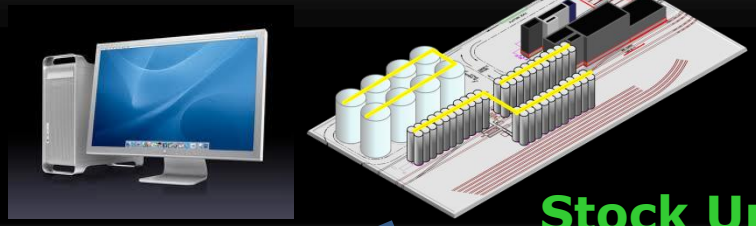
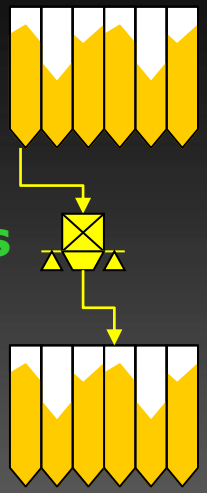
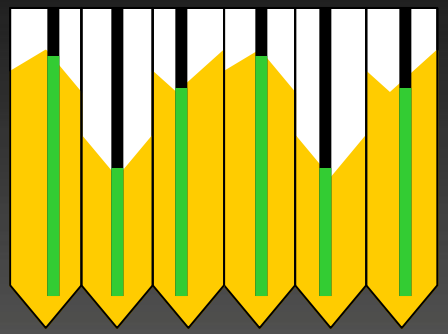


Stock Updating & Statistics

Stock Monitor



Scales



Level Sensors

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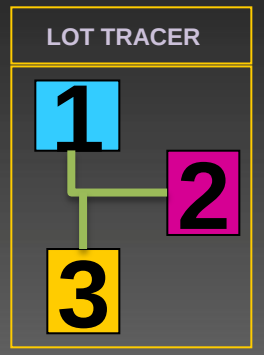
LOT TRACING

- Excellent Control and Quality of the Final Products
- Consumers safety for the Finish Products from each identified lot made
- Lots are created automatically depending on the real production processes
- Lot Archive Database
- Lot Map



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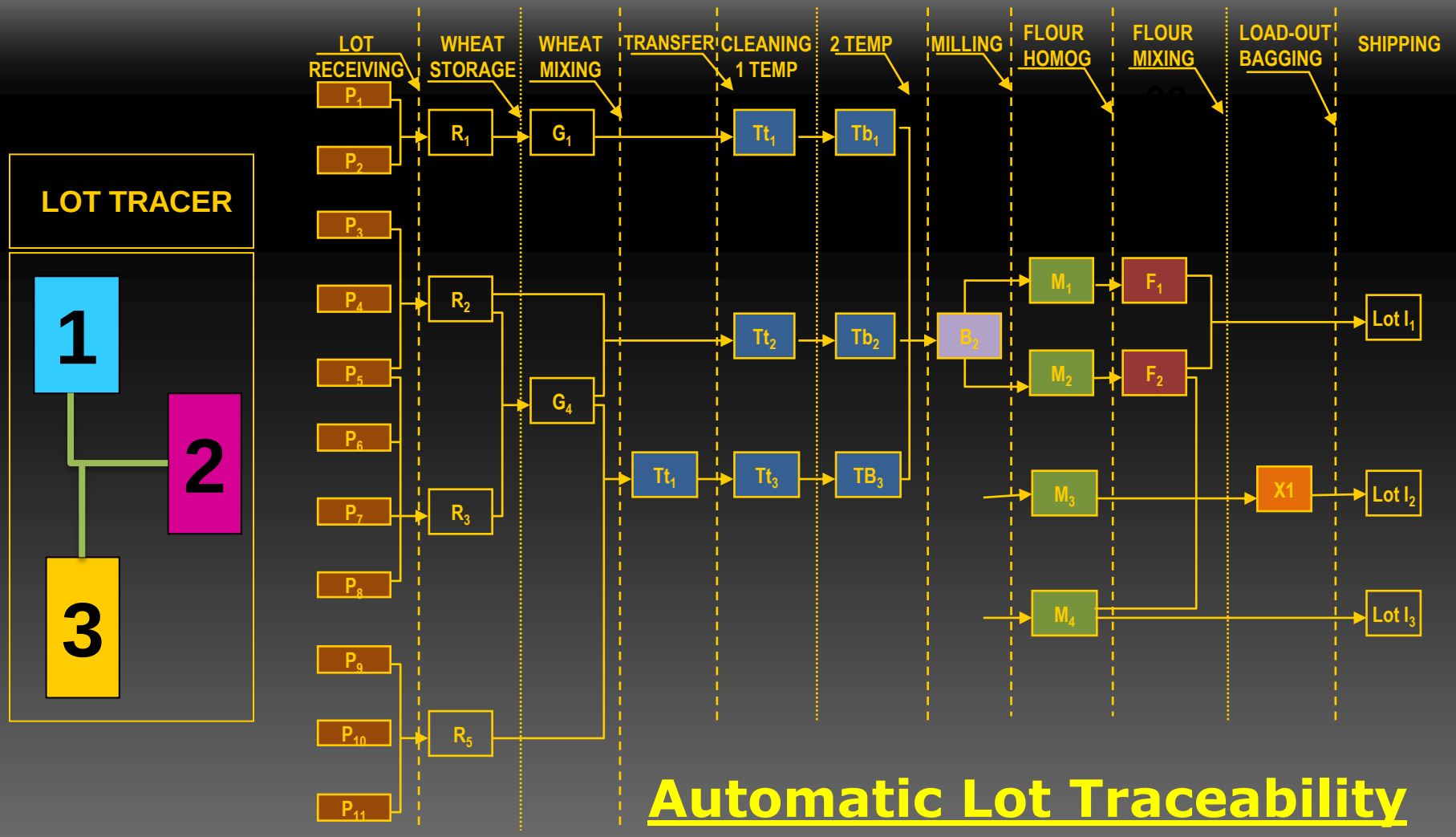

Automatic Lot Traceability

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Recipe Manager

- Automatic Mill Adjustment Set-up for Faster and Flexible Production Changes
- Manual 60 – 90 minutes → **Automatic 1 – 5 minutes**
- Formula Optimization
- Recipes Database :
  - New
  - Open
  - Save / Save as

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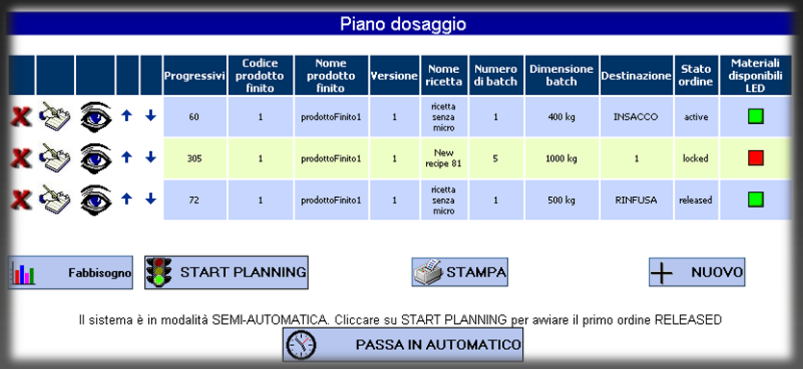
Production Planner

- Single Order Execution
- Production Scheduling
- Sale Plan (MRP)



Production lot order execution

- Programmed Start-Up (date, time)
- Machine Automatic Start / Stop
- Alarm Stand-by
- Automatic production change
- «End of Lot» condition Set :

- By Quantity
- Source Emptying
- Destination Filling

Cycles

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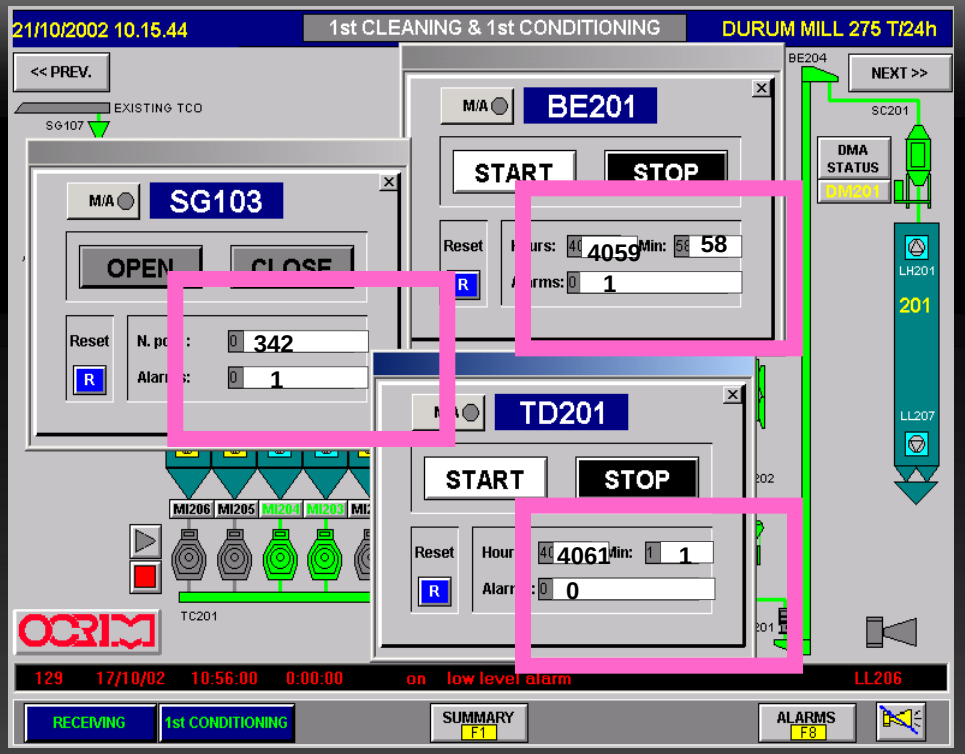
Maintenance Planning

- Maintenance planning based on <u>actual runtime hours for every single machine</u>
- Real (Actual Working)Time Alarms
- Automatic Planned Maintenance guidance
- Job / Intervention Reports
- Maintenance Task Statistics
- Technical Documentation



Maintenance

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Maintenance Cost Analysis

- **Preventive Maintenance Costs:**
  - **Intervention (Programmed)**
  - **Plant Stop (Downtime)**
  - **Early Replacement (Spare Parts)**
- **Corrective Maintenance Costs:**
  - **Production Interruption (Downtime, Missed Deadlines)**
  - **Manned Intervention (Unexpected)**
  - **Emergency Replacements (Cost Intensive)**

Maintenance

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Maintenance Considerations

- For Each Machine @ Mill keeps under control :
  - Lifetime
  - Working Time
  - Allarms Log
- Online TELESERVICE SUPPORT directly from Ocrim's Technical Response Center
- A Maintenance Intervention Cost Less Then the Relevant Fault
- The Maintenance Intervention is a certain cost to prevent a possible fault

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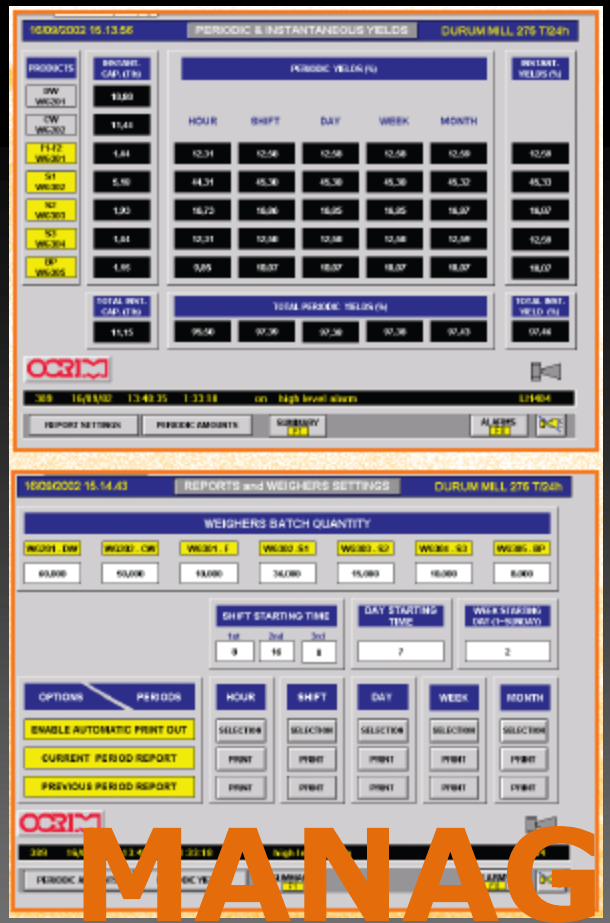
AUTOMATION AS AN OPPORTUNITY FOR:



- ALL PLANT INTEGRATION
- CENTRALIZED INFORMATION MANAGEMENT
- ON TIME DATA EXCHANGE
- ADDING VALUE TO PRODUCTS
- COST REDUCTION
- MAXIMUM FLEXIBILITY

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