New Developments for the Flour Industry

IAOM Vietnam - 2017
CLEANING SOLUTIONS
Features

- Up to 48 m² screen area
- Up to 250 t/h capacity
- Quick sieve Change
- Less maintenance
- Efficient aspirator
Optical Sorter SORTEX.
Monochromatic inspection.

Input

Accept

Reject

Dark defects
- Foreign grains + seeds
- Ergot
- Discoloured grains, germ discolorations

Light defects
- Chaff, straw, brokens

Foreign material, unhealthy wheat
- Semi-transparent Stones, Glass, Plastics
- Mycotoxin damaged, Diseased kernels
New Cleaning Concept
Classifier VEGA-MTVA and optical Sorting SORTEX
Roller mill Antares Plus.
The Plus in Energy Savings.

Antares Plus enables an optimum grinding range with:
- highest flour quality (low ash)
- at lowest possible energy input
New Diorit Roller Mill

Features
- Monitoring of roll disengagement
- Quick pack
- Roll speed monitoring
- Safe sampling
- Stainless Steel for product touching parts

Options
- Direct pick-up
- Water cooling
- Bearing temperature monitoring
- Roll temperature monitoring
- Roll diameter 300 mm
Small Plansifter Seginus MPAS. Features.

• Includes NOVAPUR Sieve Frames
• Stainless steel compartment
• Low Footprint
• Innovative integrated drive for lowest footprint (patented)
  – Beltless drive
  – Maintenance free
  – Runs on frequency converter
• Wide range of applications
  – Up to 4 Inlets
  – Up to 10 Outlets
Small Plansifter Azurit Plus MPAU with NOVATEC Sieve stacks.

- Fully equipped with synthetic sieve stacks NOVATEC
- Stainless steel lining for easy cleaning
- Isolated compartments to avoid condensation

NOVATEC
- High-tech synthetic material without any coating and fasteners
- Aluminum insert frame
New High Sanitation Scale Tubex MSDN

Features

• Hygienic Design
• Energy Efficient (95% less Energy Consumption)
• Easy to Retrofit in existing plants
New Impact Machine Matador MJZH
Maximum end product hygiene thanks high mortality rate.

Features

• Mortality rate ≥ 99.5%
  (Official Certificate for Flour/Semolina)
• Energy savings compared to similar Machines: 30%
• Simple and flexible system integration
Online NIR Sensor
Financial benefits

Features
• Real-time monitoring
• Absolute product safety
• Reduced costs
• Lower maintenance requirements
Improvement of flour production process

Different Applications
- Ash Loop
- Protein Loop (Wheat)
- Gluten Loop

Example Ash Loop Application:

<table>
<thead>
<tr>
<th>Unregulated Conditions</th>
<th>Controlled Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output main Grade Flour</td>
<td>Output main Grade Flour</td>
</tr>
<tr>
<td>Output low grade flour</td>
<td>Output low grade flour</td>
</tr>
<tr>
<td>78.5%</td>
<td>78.7%</td>
</tr>
<tr>
<td>4.5%</td>
<td>4.3%</td>
</tr>
</tbody>
</table>

+0.2% More Extraction on main Grade Flour
**ALMA Robot palletizing**

Max. Capacity: 15 bags/min

**Features**

- Compact design
- Modular design
- Easy operation and maintenance

Max. Capacity: 20 bags/min
Engineering Customer Success.