Flexible craft malting

The GKV (Germination-Kiln-Vessel) system based on our worldwide in-duty, successful malting system:
• Combines germination and kilning for gentle malt handling and best sanitation
• Flexible germination time for production of specialty malts

<table>
<thead>
<tr>
<th>GKV 35 t</th>
<th>GKV 65 t</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley (t/a)</td>
<td>Malt (t/a)</td>
</tr>
<tr>
<td>1</td>
<td>2.500</td>
</tr>
<tr>
<td>2</td>
<td>5.000</td>
</tr>
</tbody>
</table>

Industrial malting - intermediate scale

<table>
<thead>
<tr>
<th>Stage 1: 180 t/batch / 2 GV</th>
<th>Stage 2: 180 t/batch / 4 GV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley (t/a)</td>
<td>Malt (t/a)</td>
</tr>
<tr>
<td>32.400</td>
<td>26.900</td>
</tr>
</tbody>
</table>

Industrial malting - large scale

<table>
<thead>
<tr>
<th>Stage 1: 180 t/batch / 4 GV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley (t/a)</td>
</tr>
<tr>
<td>129.600</td>
</tr>
</tbody>
</table>

Shown examples, details based on:
- Working days: 360 d
- Steeping time: 24 h
- Germination time: 96 h
- Kilning time: 24 h
- Assumed yield: 83%

Malting solutions. Overview.

- Multipliable steeping concept based on 65 t cylindro-conical steeps
- Patented germination and kiln vessels for batch sizes up to 400 t
- Full automation: WinCos control system guaranteeing highest degree of automation and process security

Our proven modular system - your success:
Our solutions for your process: Malthouse up to 400 tons/batch

- Malthouse up to 400 tons/batch

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Grain Intake, conveying, weighing, storage
Cleaning
Pre-steeping
Steeping
Germination
Wet transport
Kiiing
Decumming & Cleaning
Roasting
Lab Equipment
Malting

- Pre-steeping: Antibacterial wash, double washing, and air drying
- Steeping: Solution with 20% or 40% water for different crops (barley, rye, wheat)
- Specialized solution for malting barley in 60% water

- Single, double and triple kilns combining homogeneous malt and energy efficiency.

- TAS – for highest product quality.

- Specialized solution for wet transport during malting.

- Elevators
- Screw conveyors
- Trough chain conveyors
- Belt conveyors

- Pre-Steeping
- Steeping
- Germination
- Wet transport
- Kiiing
- Decumming & Cleaning
- Roasting
- Lab Equipment
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- TAS in combination with our decumming screw for perfect malt cleaning.

- Grain quality supply: standard sieve sets for grist, grits and flour.

- Laboratory Disk Mill DLFU for optimal preparation of all common laboratory analyses.

- Laboratory Sifter MLUA for particle size determination.

- Our rosting solutions for special malt ranging from 70 to 460 kg.

- Our process solutions will convince you.

- The Laboratory Disk Mill DLFU for optimal preparation of all common laboratory analyses.

- The Laboratory Sifter MLUA for particle size determination with standard sieve sets for grist, grits and flour.

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