Cail & Fletcher ZUKA®
batch centrifugals

Optimize the efficiency of the sugar plant

- Smart and connected to maximize efficiency
- Latest technologies combined with high quality materials
- More than 4,000 batch centrifugals installed in the world
Cail & Fletcher ZUKA® - the latest generation of batch centrifugals designed by Fives

Its sturdy design includes ultimate technology with resultant outstanding performance.

**MAXIMUM PRODUCTIVITY**
- Up to 30 cycles/hour
- Double discharger: 10% of additional capacity
- High number perforation for better spinning
- Bottom obturator: faster sugar extraction
- Linear guide for accurate discharging

**ENERGY SAVINGS**
- Low inertia factor due to the basket geometry
- Hooped basket for weight reduction
- Continuous monitoring of the basket load
- Energy recovery to the electrical network
- Less water consumption
- Reduced cycle time

**ULTIMATE SUGAR QUALITY**
- Basket in Duplex stainless steel
- Shaft deflector: better massecuite distribution
- Flapped feed pipe: accurate adjustment of the massecuite flow with no contamination
- Inclined hubs arms optimizing the sugar flow
- Cleaning system of the discharger
- Improving run-off separation devices
  - High grade sloping floor for faster molasses evacuation
  - Water or clear juice injection system reducing molasses residence time in casing
  - Tangential outlet pipe
  - High purity and low purity Y-shape collector with independent valves

**HIGHEST SAFETY STANDARDS**
- Redundant mechanical and electrical protections
- Highly efficient braking system
- Optimal H/D basket ratio for maximum stability
- Hooped basket for ultimate safety

**MONITORING SYSTEM**
- HMI with user-friendly interface
- Auto or manual modes
- Continuous monitoring of the basket load
- Electro-pneumatic interface
- Alarms and maintenance defaults reports
- Operator assistance

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<table>
<thead>
<tr>
<th>Performance*</th>
<th>ZUKA® 1750</th>
<th>ZUKA® 2250</th>
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<tbody>
<tr>
<td>Load capacity (kg)</td>
<td>≥ 1,250</td>
<td>Up to 1,925</td>
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<tr>
<td>Nber of cycles/hour</td>
<td>Up to 26</td>
<td>Up to 30</td>
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<tr>
<td>Max capacity (t/h)</td>
<td>32.50</td>
<td>57.75</td>
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<table>
<thead>
<tr>
<th>Overall dimensions</th>
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<tbody>
<tr>
<td>H1 Lower part (mm)</td>
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<tr>
<td>H2 Upper part (mm)</td>
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<tr>
<td>L Diameter</td>
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*Depending on massecuite, sugar quality requirements and machine configuration.
**SMART AND CONNECTED**
- Cail & Fletcher SMART Control™ remote data analysis
- Cail & Fletcher Hydrotrac probe
- Permanent torque measurement
- Online color measurement
- Layer thickness measurement

**CAIL & FLETCHER SMART Control™**
- A web application including associated services to optimize sugar yield
- Improves profitability
- A team of dedicated experts supporting customer’s operations
- Improves maintenance and support
- Enhances safety

**PIONEERING TECHNOLOGY**
**ZUKA®’s double discharger**
- Improved productivity
- Energy savings
- Maximize sugar recovery
- Upgrade from single to double discharger with same motor

**DOUBLE DISCHARGER**
- **-13.6s UNLOADING**

**Comparison of ZUKA® cycles with double or single discharger**
ZUKA® batch centrifugeals

ELECTRICAL DEVICES
- ABB, SIEMENS and WEG drives as standard - other brands upon request
- Inverter 4 quadrants with IGBT
- Energy recovering system
- Cycling panel: up to 8 machines
- Single or multiddrive

EASY MAINTENANCE
- Large inspection door for easy access to the basket
- Reduced number of parts inside the basket
- Cail & Fletcher SMART Control™ services (hotline, CMMS, reports, etc.)

OPTIONS
- Steam exhaustion system
- Syrup washing for beet applications
- Retractable washing ramp
- Cleaning trolley

ASSEMBLY, EXPERTISE AND SERVICE CENTERS
Cail & Fletcher batch and continuous centrifugeals are designed, assembled and expertized in several locations worldwide in order to meet each customer’s request.