

ZUKA® batch centrifugals.

ELECTRICAL DEVICES

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

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,...)

OPTIONS

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



ASSEMBLY, EXPERTISE AND SERVICES CENTERS

Cail & Fletcher batch and continuous centrifugals are designed, assembled and expertized in several locations worldwide in order to meet each customer's request.



● Fives' service centers

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fives

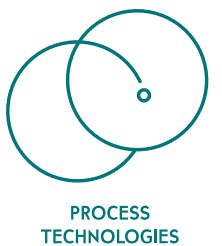
Cail & Fletcher ZUKA® batch centrifugals



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

		ZUKA®		
		D412	1750	2250
Performance*				
Load capacity (kg)	≥ 1,250	Up to 1,925	Up to 2,475	
Nber of cycles/hour	Up to 26	Up to 30	Up to 30	
Max capacity (t/h)	32.50	57.75	74.25	
Overall dimensions				
H1	Lower part (mm)	735	1,100	1,280
H2	Upper part (mm)	1,500	2,410	2,470
L	Diameter	1,630	2,090	2,290

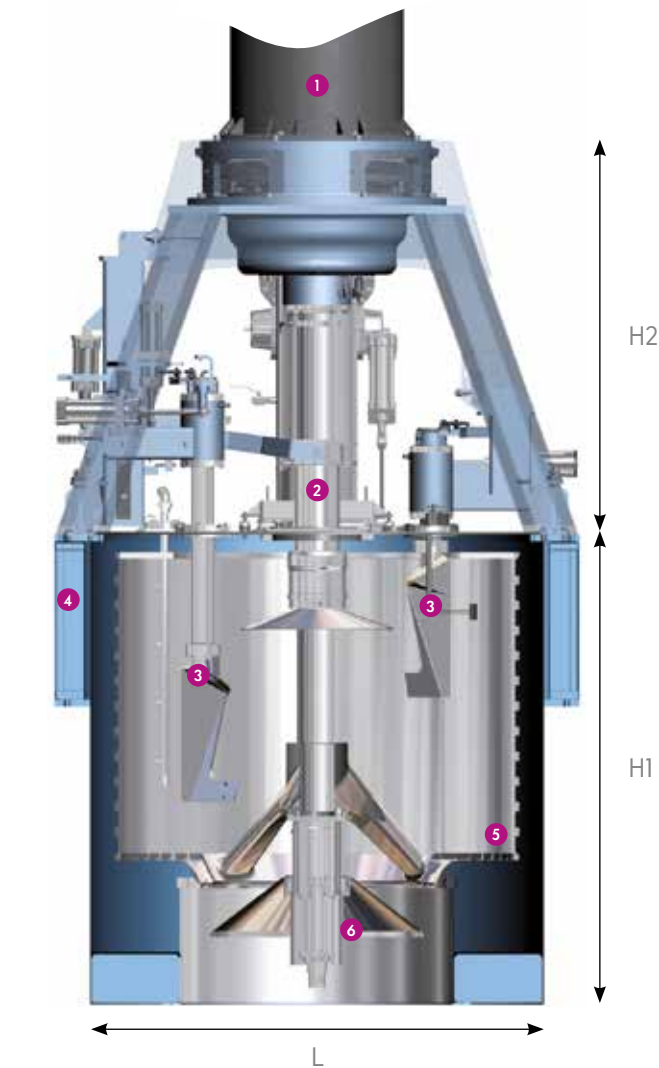
*Depending on massecuite, sugar quality requirements and machine configuration

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



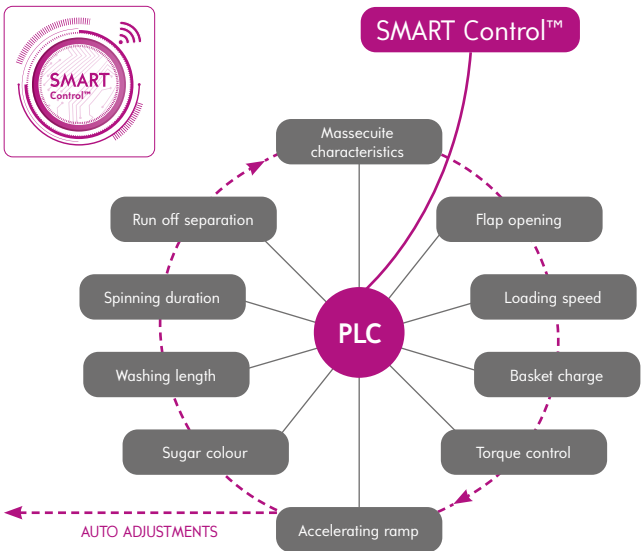
- 1 AC or DC motor

2 Flapped feed pipe

3 Double discharger
- 4 Large inspection door

5 Basket and profiled hub

6 Bottom obturator



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

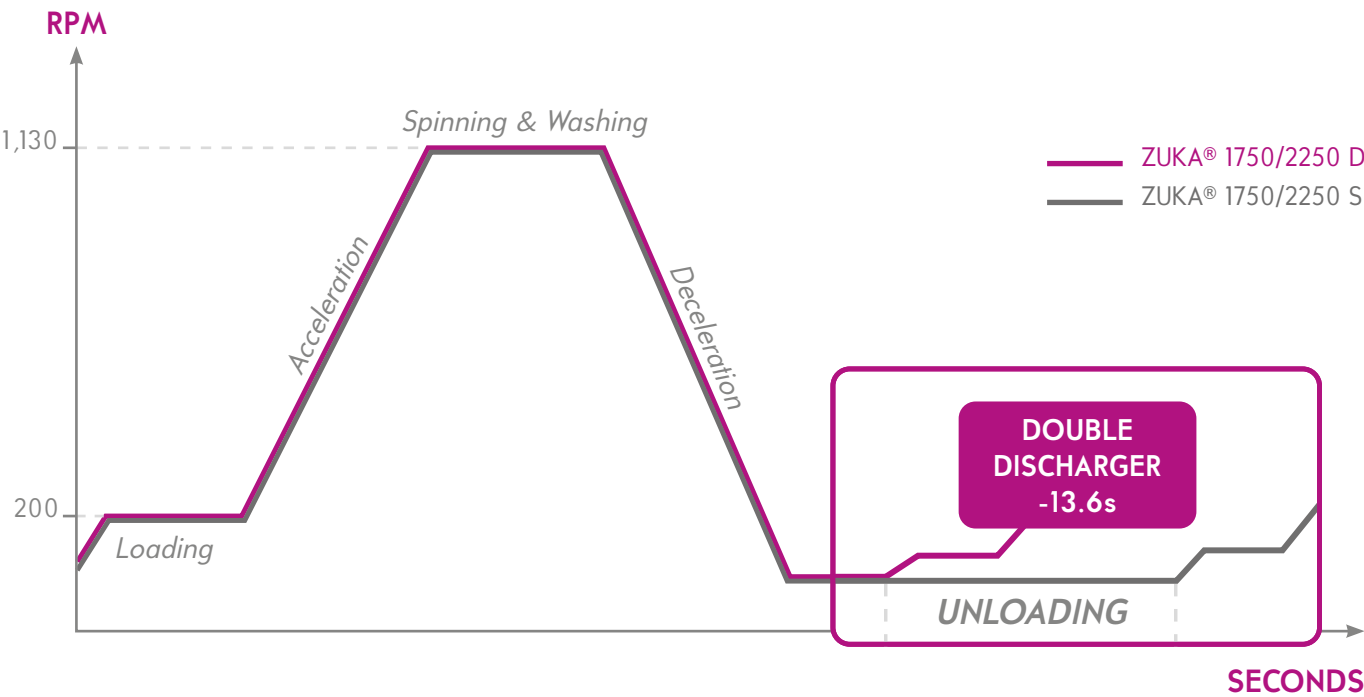
- Improved productivity
- Energy savings
- Maximize sugar recovery
- Upgrade from single to double discharger with same motor

1st discharger
Rotation

2nd discharger
Rotation + Translation

Top part
Bottom part

Double discharger configuration



Comparison of ZUKA® cycles with double or single discharger