

# PRODUCTION SCALE VERTICAL AXIS BASKET CENTRIFUGES with removable filtration bag TYPE KSA



SC-Vx KSA

## KEY FEATURES OF KSA TYPE CENTRIFUGES



### EASE OF USE AND INSTALLATION

- Cake discharge via removable filtration bag.
- Manual or semi-automatic cycle control.
- Machine to be installed on a ground or mezzanine floor.



### FLEXIBILITY

- Complete cake removal (no residual heel).
- Easy access to the process area of the centrifuge.
- Simplified cleaning operations and filter media changes.
- Probably the most suitable centrifuge type for multi product processors.



### COST EFFECTIVENESS

- Large scale production for low investment and reduced operating and maintenance costs.

## GENERAL DESIGN OF KSA TYPE CENTRIFUGES

### Basket

Non removable perforated basket manufactured with solid alloy side wall and alloy lined or solid alloy base, with removable top rim, to which the filtration bag is fixed, installed in a groove located on the upper basket sidewall and locked by safety locking devices.

### Centrifuge casing

with total opening allowing full access to the basket for easy inspection and cleaning.

### Liquid outlet pipe

### Lid

Full opening flat or dome cover with manual, pneumatic or hydraulic actuation, static or inflatable sealing gasket, depending on design, size and accessories installed on the cover.

Feeding pipe adjustable in height and orientation when machine is stopped.

Integrated inertia plate (type RC-KSA)

## MAIN DESIGN FEATURES

### MAIN DRIVE

Side-mounted one speed electric motor with speed control by variable frequency drive and transmission via antistatic belts.

### CENTRIFUGE MOUNTED ELECTRICAL EQUIPMENT

water-tight or explosion-proof according to European norms EN 60079...(ATEX compliance for the EU) or to North American ones.

### LOCAL CONTROL PANEL

**Independent**, installed near the centrifuge with necessary instrumentation and safeties.

### MAIN CONTROL PANEL

**Independent**, installed outside the processing area, in technical one, with separate drive and control panels.

### SAFETY

Fully equipped with safety features and ancillary systems. Vibration detector or unbalance switch, speed sensor, pressure switch.



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## OPTIONAL EQUIPMENT AND AUXILIARIES

### CAKE WASH PIPE

With adjustable orientation when machine is stopped, with interchangeable nozzles.

### CAKE LEVEL DETECTOR

To optimize loading and prevent any risk of overflowing during feeding and washing (various types available).

### ANGLE BRACKET

from carbon steel (stainless steel as an option) with automatic hoist.

### JIG TO PERFORM AND CONTROL BAG CLAMPING

### QUICK RELEASE BASKET

for periodic inspections and frequent and integral cleaning.



### SEMI-AUTOMATIC FILTRATION BAG

Automatic filtration bag discharge and re-alignment of bag bottom when the bag is re-installed in the basket is accomplished by the operator with a special handling device.

### This assembly has many advantages:

- Less operator intervention
- Reduces handling
- Protects product from being contaminated by the operator
- Prevents operator exposure to the product

- **Installation** 3 columns suspension (SC) or rigid type, with integrated inertia plate and vibration isolators (RC).
- **Various construction materials** (stainless steels, Alloys...), coatings (rubber, HALAR...) and gasket materials.
- **ATEX compliance** (for the EU), cGMP construction
- **Vapor tightness** for operation under inert gas blanketing
- **Inerting Control Systems...** Various principles: Pressure control, Oxygen content analysis, Neutral gas inlet flow control.
- **Hydraulic siphon or liquid receiver** for liquid outlet tightness.
- **Clean-in-place (CIP)** with strategically located spray nozzles for cleaning process contact surfaces
- **Surface finish:** various polishing grades to meet application and customer requirements (electro polishing available)
- **Double shell casing**.



## TECHNICAL CHARACTERISTICS OF KSA RANGE

Type RC/SC	Basket (maximum data)						
	Ø mm	Height mm	Filtration area m <sup>2</sup>	Useful volume L	Load kg	Speed rpm	Centrifugal force G
70 KSA	700	350	0.77	70	90	1400	770
85 KSA	850	440	1.16	125	155	1300	800
100 KSA	1000	500	1.57	200	240	1150	740
120 KSA	1200	600	2.26	330	400	1000	670
125 KSA	1250	630	2.48	395	495	900	570
150 KSA	1500	750	3.42	600	750	750	535
200 KSA	2000	780	4.50	970	1200	580	380
		900	5.65	1120	1400		



### SIMPLIFIED VERSION

#### DIG-OUT CENTRIFUGES

With removable filter bag only, the bag is not installed on a removable rim. The basket has a fixed upper rim (can be supplied in same basket diameters and figures than KSA type centrifuges).



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