

## VERTICAL-AXIS CENTRIFUGE WITH REMOVABLE FILTER BAG DISCHARGE KSA



SC-KSA

RC-KSA

### FEATURES OF THE KSA RANGE



#### EASE OF USE AND INSTALLATION

- Discharge of the «cake» via removable bag and lifting beam.
- Manual or semi-automatic cycle control.
- Equipment suitable for floor or mezzanine installation.



#### FLEXIBILITY

- Complete discharge of the spun cake (no residual layer).
- Easy access inside the basket.
- Simple cleaning and filter cloth replacement.
- Arguably the centrifuge best suited for multi-product operations.



#### COST EFFECTIVENESS

- Centrifuge providing high production capacity with moderate investment and operating costs.

## MAIN FEATURES

### • CENTRIFUGE INSTALLATION

Suspended at three points (SC) or with a rigid shaft on an inertia plate (RC) with anti-vibration supports.

### • DRIVE

Single-speed side-mounted electric motor connected to a frequency converter, with transmission via antistatic belts.

### • ELECTRICAL EQUIPMENT MOUNTED ON THE CENTRIFUGE

Sealed or explosion-proof, in accordance with European standards EN 60079... (ATEX certified for the EU) or North American standards.

### • CONTROL PANEL

Independent, located near the centrifuge with control and signaling devices.

### • MAIN CABINET

Independent, to be placed in the technical area, housing the power chassis (including the frequency converter) and the control chassis.

### • SAFETY FEATURES

Machines equipped with all safety devices in accordance with current standards, plus numerous additional systems (imbalance or vibration detector, speed sensor, pressure monitoring, etc.).

## FUNCTIONALITY OF THE KSA RANGE



### Full-opening lid

Full-opening lid flat or domed, with manual, pneumatic, or hydraulic lifting, featuring a static seal, with or without closure clamps... depending on the lid design, diameter, and installed equipment.

### Feed pipe

fixed or adjustable in height and orientation, with the machine stopped.

### Inertia plate with anti-vibration supports (Type RC-KSA)

### Basket

Non-removable perforated basket with solid shell and solid or coated plate, featuring a removable ring that supports the filter bag and is held in the groove at the top of the shell, with locking handle(s) and safety mechanism.

### Outer casing

with full opening for easy access to the basket and simplified cleaning.

## OPTIONAL EQUIPMENT AND ACCESSORIES

### • CAKE RINSING/CLARIFYING PIPE

Fixed or adjustable in orientation with the machine stopped, featuring interchangeable diffusers.

### • LAYER SENSOR OR LEVEL DETECTOR

To optimize filling and prevent any risk of overflow during feeding and washing phases.

### • QUICK-RELEASE BASKET

Device enabling regular inspections and frequent cleaning of the basket for multiproduct use.

### • SEMI-AUTOMATIC «LIFTING BEAM/BAG» ASSEMBLY

The automatic opening of the bag and the securing of its bottom when repositioned in the centrifuge are controlled by the operator using a special lifting beam.

### • BAG DISCHARGE SYSTEM

Mild steel jib crane (stainless steel optional) with automatic hoist.

- Various **construction materials** (stainless steels, alloys...), **coatings** (ECTFE, ebonite), and **seal materials**.
- **Gas-tightness** without or under pressure, allowing machine inerting.
- **ATEX** compliance and cGMP construction.
  - **Inerting devices** (various principles: pressure control, oxygen analysis, flow control).
- **Hydraulic unit** or liquid receiver for sealing during discharge.
- **Clean-in-place (CIP)** system with rotary nozzles and fixed nozzle manifolds for cleaning sensitive and hard-to-reach areas of the basket.
- **Finish**: degree of polishing according to application and user requirements (electropolishing possible).
- **Double-walled casing** for temperature maintenance.

## DISCHARGE VARIANT

### MANUAL DISCHARGE



### SEMI-AUTOMATIC DISCHARGE



This assembly offers numerous advantages:

- Simplifies the operator's work.
- Reduces handling time.
- Protects the product from any risk of contamination by the operator.
- Protects the operator by eliminating contact with the product.

## RC RANGE

MACHINE	Variant	ø Basket (mm)	Height / Depth (mm)	Max. rotation speed (rpm)	Useful volume (l)	Useful load (kg)	Max. G-Effect (G)	Filtration area (m²)
RC40	KSA	400	245	2 300	18	23	1 183	0,31
RC50	KSA	497	310	1 700	35	43	803	0,48
RC60	KSA	600	305	1 500	60	75	755	0,57
RC70	KSA	693	335	1 300	79	87	655	0,73
RC85	KSA	848	445	1 100	150	187	573	1,19
RC100	KSA	995	500	1 100	210	250	673	1,56
RC120	KSA	1 187	600	900	365	400	537	2,24
RC125	KSA	1 250	700	900	450	562	566	2,75
RC150	KSA	1 500	750	800	600	750	537	3,53





## SC RANGE

MACHINE	Variant	ø Basket (mm)	Height / Depth (mm)	Max. rotation speed (rpm)	Useful volume (l)	Useful load (kg)	Max. G-Effect (G)	Filtration area (m²)
SC70	KSA	693	346	1500	75	90	871	0,75
SC85	KSA	848	445	1100	150	155	573	1,19
SC100	KSA	995	500	1000	210	250	556	1,56
SC120	KSA	1 187	600	900	365	400	537	2,24
SC125	KSA	1 250	700	900	430	537	-	2,75
SC125	KSA	1 250	800	900	490	613	566	3,14
SC150	KSA	1 500	750	800	670	750	537	3,53
SC200	KSA	2 000	780	580	970	1 200	376	4,90



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