PRODUCTION SCALE VERTICAL AXIS BASKET CENTRIFUGES WITH REMOVABLE FILTER BAG

For solid / liquid separations in various industries:
Chemical, Pharmaceutical, Food, Plastics, Textile, Metals...
These centrifuges, to which ROUSSELET ROBATEL has made continual technical improvements, allow us to continue to respond to increasingly demanding fabrication standards required by our customers, while at the same time, maintaining a simple design:

➤ **Easy to use**
Cake discharge via removable filter bag, manual or automatic cycle control.

➤ **Easy in install**
Can be installed on a ground or mezzanine floor without the need for complex accessory equipment.

➤ **Multipurpose / Flexibility**
Basket centrifuges with a discharge method which allows for:
- Complete cake removal (no residual heel),
- Easy access to the inside of the centrifuge
- Simplified cleaning and filter media changes,

➤ **Cost Effective**
Low investment and operating costs to maintain large scale production.
MAIN SPECIFICATION AND TECHNICAL FEATURES:

- **Vertical axis.**
- **Centrifuge Installation:**
  Triple suspension (Model SC–KSA) or installed on integral inertia plate with vibration isolators (Model RC–KSA).
- **Materials of construction:**
  Coatings: Mild steel, stainless steel, Alloys, Corrosion-resistant coatings (Halar, Ebonite, PFA, Tefzel ...)
- **Basket speed control:**
  By side-mounted motor, controlled by an AC variable frequency drive and belt transmission.
- **Electrical equipment** installed on the centrifuge:
  Vaportight or explosion-proof to European or American standards.
- **Vaportightness:**
  Suitable for inert gas blanketing: pneumatic barrier between double lip seals and bearings, inert gas ports.
- **Independent controls and electrical equipment.**
- **Safety** devices conforming to the highest standards.
- **Optional fully opening casing** for total accessibility to internal components. Cover, flat or domed, manual, pneumatic, or hydraulic actuation. Static or inflatable sealing gasket. One or two panoramic sight glasses with integral wiper and wash nozzle, diameter dependent on whether the centrifuge is vaportight and the number of accessories installed on the cover.
- **Basket** – sideplate with reinforcing rings or solid alloy construction. Base is alloy lined or solid alloy. Filter bag / removable basket rim installed in a groove located on the upper basket sidewall and locked by safety locking devices.
- **Feed pipe**: fixed (adjustable height and orientation, when machine is stopped) or with "up and down" motion (adjustable frequency and stroke during centrifuge operation) optimizing product distribution over entire basket height.

### TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Models</th>
<th>Max Speed RPM</th>
<th>Max G Force</th>
<th>Diameter mm</th>
<th>Cake Thickness mm</th>
<th>Height mm</th>
<th>Useful Volume dm³</th>
<th>Max Load Kg</th>
<th>Filtration area m²</th>
<th>Motor Power KW</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC or RC</td>
<td>1400</td>
<td>770</td>
<td>700</td>
<td>240</td>
<td>350</td>
<td>70</td>
<td>90</td>
<td>0.77</td>
<td>4</td>
<td>800</td>
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<tr>
<td>70 KSA</td>
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<td>800</td>
<td>850</td>
<td>280</td>
<td>440</td>
<td>125</td>
<td>155</td>
<td>1.16</td>
<td>4</td>
<td>1300</td>
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<tr>
<td>100 KSA</td>
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<td>1000</td>
<td>346</td>
<td>500</td>
<td>200</td>
<td>240</td>
<td>1.57</td>
<td>10</td>
<td>1900</td>
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<tr>
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<td>670</td>
<td>1200</td>
<td>415</td>
<td>600</td>
<td>330</td>
<td>400</td>
<td>2.26</td>
<td>15</td>
<td>2300</td>
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<tr>
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<td>570</td>
<td>1250</td>
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<td>365</td>
<td>455</td>
<td>2.48</td>
<td>16</td>
<td>2700</td>
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<td>525</td>
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<td>600</td>
<td>750</td>
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<tr>
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<td>2000</td>
<td>776</td>
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<td>1120</td>
<td>1400</td>
<td>5.85</td>
<td>30</td>
<td>7800</td>
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</tbody>
</table>
OPTIONAL EQUIPMENT AND AUXILIARIES

- Cake feeder or level detector to optimize loading and prevent any risk of overflowing during feeding and washing.

- Cake wash pipe with adjustable orientation when machine is stopped, with interchangeable nozzles.

- Process lighting installed on centrifuge cover for viewing inside of machine.

- Semi-automatic filter bag. Automatic filter 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,
  - Reduced handling,
  - Protects product from being contaminated by the operator,
  - Prevents operator exposure to the product.

- Quick release basket, for periodic inspections and frequent cleaning for multipurpose applications.

- Clean-in-place (CIP) with strategically located spray nozzles for cleaning process contact surfaces.

- Fully-opening casing allowing systematic and visual inspection and integral cleaning of all process contact areas.

- Earth grounding between static and rotating parts.

- A variety of inerting systems, oxygen analyzers, single or double liquid receivers.

- Basket rim / filter bag lifting mechanisms for hoisting.

- Double shell casing for temperature control.

- Polishing grades, seal materials, filter cloth characteristics tailored to your specific requirements.

- Simplified versions:
  - Single speed, directly coupled motor with disc brake,
  - With removable filter bag. The bag is not installed on a removable rim. The basket has a fixed upper rim.

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