Centrifuges

for static, dynamic or vacuum coating

of a product on various substances or parts (IMP range)

APPLICATIONS: deposition of product on a surface or impregnation before dewatering and the possibility of drying parts and materials for various substances (springs, seals, plastics, nylon nets, etc.)

- PROTECTION from oxidation and other finishings (varnishes, specific paints, anti-vibration products, other substances)
- LUBRICATION (oil, PTFE, etc.), SILICONIZING, WASHING, etc.
- COATING (capacitors, catalytic filters, porous samples, textile fibers, graphite, etc.)

ADVANTAGES:
- Control of consumption of the applied product
- Recycling of the product applied
- Deposition of product on the entire surface
- Non-polluted and clean deposition guaranteed
- No spillage
- Parts can be dry to the touch (depending on the product)
- Simple operation
- Completely automatic cycle
- Reproducibility guaranteed
- No aerosolizing
- Possibility for fume tight construction

TYPICAL CYCLE OPERATION
• Cover closing
• Automatic cycle:
  **COATING phase** (image 1)
  - Coating bowl is fed with the liquid pumped from the tank
  - Pump is stopped once the parts are immersed and static coating begins
  **DEWATERING phase** (image 2)
  - The bowl + basket system’s rotational speed is gradually increased enabling the liquid to discharge back into the tank
  - Dewatering of parts at pre-selected speed and for pre-selected duration, so as to leave a thin layer on the surface of the parts
  - Optional drying with hot-air heating system
  - Slowing down to a complete stop and unlocking of cover
• Opening of cover
• Basket removal for discharge of parts

**GENERAL CHARACTERISTICS:**

• Conical carrying bowl, installed on the spindle, designed to accept a removable basket that is overturned to discharge the parts (handgrips or trunions for manual handling)
• Suspended in 3 points (type SA/SC) or rigid (RC type)
• Powered by axial motor (type SA) or side-mounted motor (type RC/SC), connected to a frequency inverter to adjust rotational speeds
• Product containing and recycling tank with pump, filter screen at discharge area, fill and drain caps, low level-detector and visual level, inspection cap, etc.
• Fully automatic cycle; possibility to set duration of feeding via pump, static coating and dewatering
• Rotational speed can be set with potentiometer (10 to100 % of maximal speed)
• Independent control/command panel with switches and lights
• US and EU compliant security features
• Materials: mild steel, viton seal for cover, nitrile rubbers, various materials for other seals and components
OPTIONS

- **MATERIALS**: stainless steel, hydrophobic coating (Halar, Rilsan, cothal, etc.), special seals and components, etc.
- **TANK**: fine liquid filtration system to guarantee clean coating, filter plugging detector, sealing level (reinforced, under pressure, etc.), automatic isolation valves, high level detector, mixer, two-compartment tank (two products), heating of bath liquid, heat introduction system, tailored sizes and volumes, tank mounted on load cells (precise liquid level control), on elevated table (liquid transfer without pump), etc.
- **BASKET**: special perforations, suitable filter elements (removable bag), non removable basket, basket with conical bottom (combined with reversing mechanism for parts with high retention rate areas), bottom discharge basket (for massive parts), basket with compartments, basket with flat bottom, etc.
- **COVER**: spring or pneumatic-assisted manual lifting, vapor extracting system, etc.
- **CONTROL/COMMAND**: pre-programmed cycles (automated or cycle by cycle), integration of vapor control or vapor traceability
- **OTHER VERSIONS**: explosion-proof (RC/SC types), vacuum-rated version, automated version, etc.
- **PERIPHERALS**: independent heating system (type C2), temperature regulating system, bracket with hoist, additional removable basket, liquid discharge nozzle mounted on cover, retention tank, etc.

---

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Diameter</th>
<th>Useful Height</th>
<th>Useful Volume</th>
<th>Total Volume</th>
<th>Max. Load</th>
<th>Weight</th>
<th>Perforation Diameter</th>
<th>Bowl Volume</th>
<th>Max. Speed</th>
<th>Power</th>
<th>Tank Useful Volume/Total Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA 40 Vx KC IMP</td>
<td>300</td>
<td>180</td>
<td>8</td>
<td>15</td>
<td>25</td>
<td>8</td>
<td>2.5</td>
<td>22</td>
<td>1000</td>
<td>0.55</td>
<td>65/100</td>
</tr>
<tr>
<td>SA 50 Vx KC IMP</td>
<td>475</td>
<td>280</td>
<td>30</td>
<td>40</td>
<td>60</td>
<td>11</td>
<td>2.5</td>
<td>60</td>
<td>1000</td>
<td>1.1</td>
<td>100/155</td>
</tr>
<tr>
<td>RC 50 Vx KC IMP</td>
<td>475</td>
<td>280</td>
<td>30</td>
<td>40</td>
<td>60</td>
<td>11</td>
<td>2.5</td>
<td>60</td>
<td>1000</td>
<td>3</td>
<td>100/155</td>
</tr>
<tr>
<td>SC 70 Vx KC IMP</td>
<td>645</td>
<td>330</td>
<td>50</td>
<td>80</td>
<td>100</td>
<td>40</td>
<td>4</td>
<td>160</td>
<td>900</td>
<td>4</td>
<td>250/350</td>
</tr>
<tr>
<td>SC 85 Vx KC IMP</td>
<td>790</td>
<td>380</td>
<td>90</td>
<td>155</td>
<td>180</td>
<td>53</td>
<td>4</td>
<td>240</td>
<td>750</td>
<td>5.5</td>
<td>300/40</td>
</tr>
</tbody>
</table>

OTHER VERSIONS WITH BASKETS OF DIFFERENT SIZES AND CAPACITIES HAVE ALREADY BEEN MANUFACTURED: PLEASE CONTACT US

---

ROUSSELET CENFRGULATION SA

Grande-Bretagne : ROUSSELET ROBATEL UK LTD

Im Forstgarten SA

Etats-Unis : ROUSSELET CENTRIFUGATION

Web [www.rousselet.com](http://www.rousselet.com)