Semi-Automatic or Automatic Discharge Centrifuge with Overturning Casing RC RIAL

The semi-automatic or automatic centrifugal hydroextractor, with overturning discharge, is well adapted to testing a centrifuge with simple automatic cycle, and with a reduced capacity from that of the RCPC production scale lines.

Feeding / hydroextraction	Casing overturning	Product discharge
Batch automatic centrifuge with overturning casing showing cycle steps		

ADVANTAGES AND CHARACTERISTICS

- **Capacity:** 50 L / 80 kg depending on the product
- **Adaptable to many products** that are fragile (with specially designed basket sidewalls..)
- **Easy to clean:** clean in place system, systeme nettoyage en place, easy inspection betweeen casing and basket. Perfectly adapted to multiproduct service.
- **Robust and mechanically proven**, all stainless steel construction
- **Easy to maintain**
- **Heavy duty use** up to 50-60 cycles/hr.

Operating principle:

1. Feeding : With the casing in the vertical position, the centrifuge receives the product from an overhead conveyor, or feed chute, etc. The basket is at a slow rotational speed to ensure uniform product distribution.
2. Hydroextraction : When the feed step is completed, the basket speed is increased to a pre-determined setpoint.
3. Product discharge : Once basket rotation has stopped, the casing assembly and basket overturn 180* such that the product is discharged by gravity.The assembly returns to the vertical position and a new cycle can begin. The RC60RIAL can also be used for semi-automatic service : The operator triggers the overturning and the product is recovered in a bin, which eliminates the need for manually removing the product.