

# AUTOMATIC CENTRIFUGES for metal working and mechanical engineering industries RC-VO TYPE



## KEY FEATURES OF RC-VO TYPE CENTRIFUGES



### EASE OF USE

- Low speed rotation during loading (controlled through the frequency inverter).
- Centrifuge installation on platform, for bottom discharge, in a container or a conveyor.
- Suitable for very small size components.
- Compact design.



### PRODUCTIVITY

- Fully automatic cycle.
- Short cycle times.
- Low residual moisture.



### VERSATILITY

- De-oiling of very small size components or very short swarf.
- De-oiling of parts after oil hardening, tooling, cold stamping...
- Spinning and drying of components after surface treatment (zinc coating, chromium or nickel plating ...).

## MAIN SPECIFICATION

- **Rigid type centrifuge**, mounted on base plate with isolators.
- **Mild steel** construction.
- Driven by **side-mounted electric motor** (3 kW) connected to an AC variable frequency drive.
- **Retractable basket chute with pneumatic control** (by external side-mounted cylinder).
- Basket grid cleaning nozzle fixed on casing.
- Removable casing top with loading funnel.
- **Basket:**
  - Diameter: 400 mm.
  - Useful volume: 18 l.
  - Permissible load: 35 kg.
  - Variable speed: 100 à 1000 rpm.



## AUTOMATIC CYCLE

### LOADING:

While in the closed position, the basket's rotation is started.

Once the selected speed is reached, the solids are introduced to the basket by gravity by turning on the feed conveyor (or by opening the upper hopper).

### HYDRO-EXTRACTION:

Once the basket is loaded, the speed increases until the selected speed is reached.

The duration of the extraction cycle is timer controlled and set in advance.

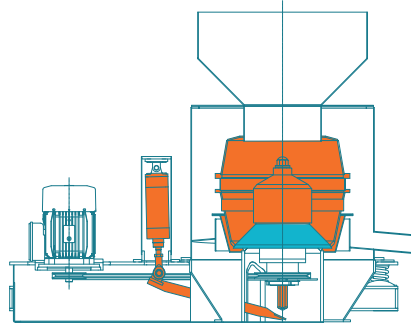
### UNLOADING:

The basket automatically slows down to a full stop. Under the action of the pneumatic cylinder, the basket chute moves upward, releasing the load which is discharged by gravity in the lower hopper.

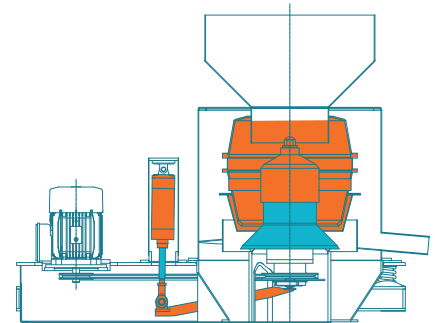
Once the basket chute returns to its lower position, the basket starts to rotate at slow speed enabling the cleaning nozzle to clean out the filtration area.

The product collected is discharged and the chute closes on the bottom of the basket to start a new cycle.

**Loading/Hydro-extraction**  
Basket chute in the lower position

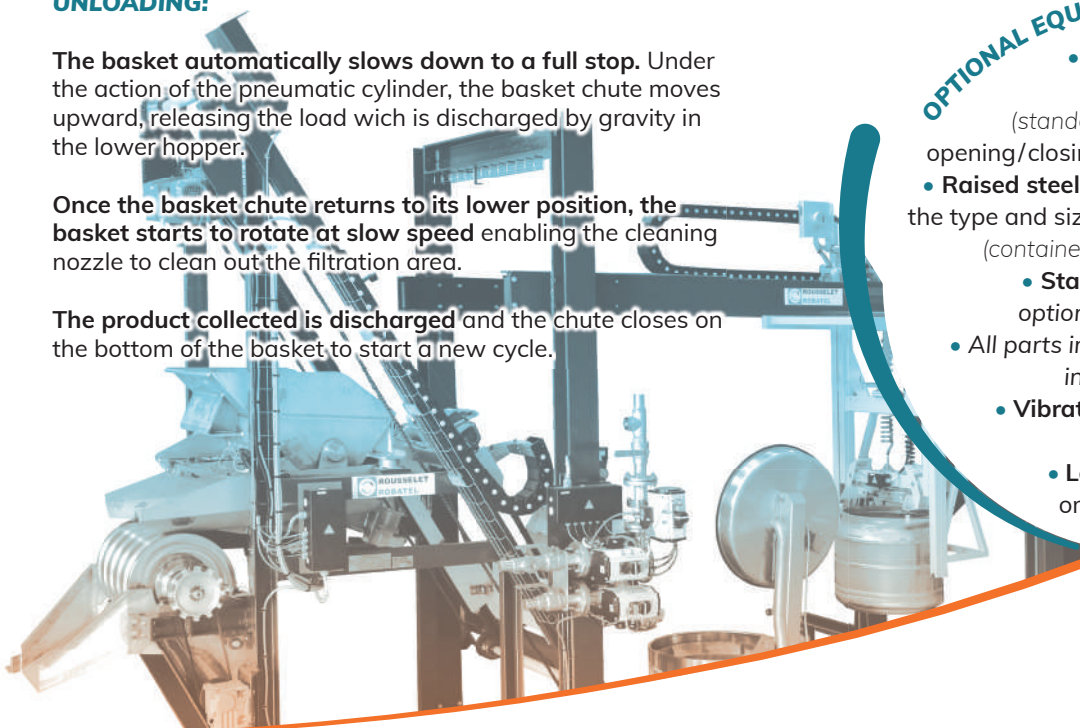


**Unloading**  
Basket chute in the upper position



### OPTIONAL EQUIPMENT AND AUXILIARIES

- **Upper loading hopper** (standard or vibrating) with opening/closing via a pneumatic cylinder.
- **Raised steel base** designed according to the type and size of the load recovery system (container tank, conveyor belt,...).
- **Stainless steel basket**, optional polished interior.
- All parts in contact with the product in stainless steel.
- **Vibrator** on the discharging lower hopper.
- **Loading conveyor** or loading bucket.



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