

## **VERTICAL DECANTER CENTRIFUGES WITH AUTOMATIC BOTTOM DISCHARGE FROM THE BOWL TYPE DRC-Vx BO**



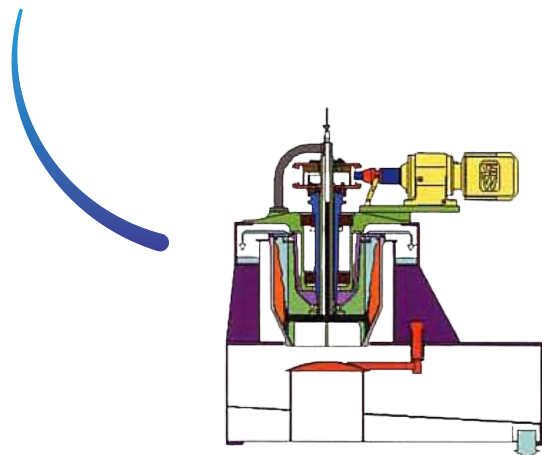
### **MAIN CHARACTERISTICS:**

- Rigid spindle assembly.
- Aluminium bowl, with open bottom, with separating deflector.
- Feed pipe through the spindle / scraper assembly (4baffles).
- Gear reducer for scraper actuation.
- "Centri-lock" system allowing for synchronized baffle and bowl rotation.
- Bowl rotation driven by side-mounted electric motor.
- AC variable frequency drive to assure strating and braking and variable speed rotation.
- Independent control enclosure with PLC.
- Protection.

## AN ENTIRELY AUTOMATIC OPERATING PRINCIPLE:

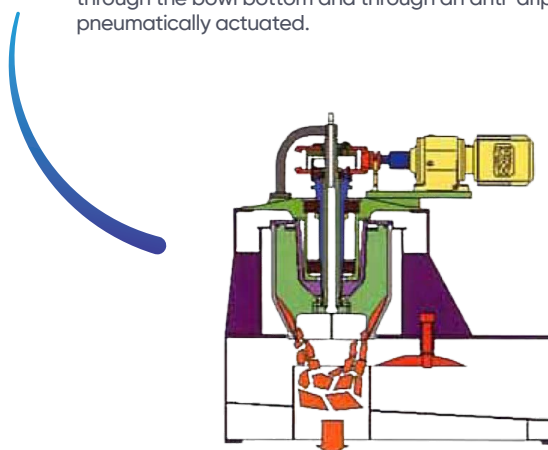
### FEEDING / CENTRIFUGATION

- The slurry is fed using a rotating disc that rotates at the same speed and direction as that of the bowl (minimized turbulence).
- Under centrifugal force (1,500 to 2,200 x G), the denser solid particles migrate to the bowl wall and accumulate into a "cake". The rotating baffles divide the bowl into four "calm" zones and guarantee that the slurry is at the same rotational speed as the bowl wall yielding a faster / more efficient separation.
- The purified liquid is discharged by overflow.



### SLUDGE DISCHARGE

- A special device detects the effective sludge mass inside the bowl. This patented system has the advantages of:
  - optimized bowl filling,
  - it does not depend on feed flow rate changes or on the sediment concentration, and avoids overflowing, and premature mechanical wear.
- When the pre-determined sludge mass is reached, the feed is automatically shut off. The bowl bottom flange and the baffle assembly are set to a slow rotational speed in opposite directions, and the bowl rotational speed is reversed several times. The baffles become a scraping device, and remove the solids from the bowl wall allowing them to discharge by gravity through the bowl bottom and through an anti-drip chute, that is pneumatically actuated.



## CHARACTERISTICS OF THE DRC Vx BO RANGE

TYPE	Diameter (Ø)	Total volume (l)	Sediment volume (l)	Rotational speed (rpm)	Overall dimensions (m)	Motor power (kW)	Max. Throughput (l/min)
DRC 30 Vx BO	300	15	8	3,000	1.47x1.15x0.95	2.25	75
DRC 45 Vx BO	450	48	16	2,500	1.93x1.42x1.26	7.5	150
DRC 45 Vx BO	450	67	23	2,500	1.93x1.42x4.40	11	220



### For purification of:

- **INDUSTRIAL SLUDGES AND BATHS** (vibratory finishing, rectifying, phosphating, washing, pickling...)
- **WASH WATERS** (all industries)
- **CUTTING FLUIDS** (plastic, glass, ceramic,...)
- **COOLING LIQUIDS...**

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