



**ROUSSELET
ROBATEL**



VERTICAL DECANTER CENTRIFUGES

***WITH AUTOMATIC BOTTOM DISCHARGE FROM THE BOWL
MODEL DRC-Vx B0***

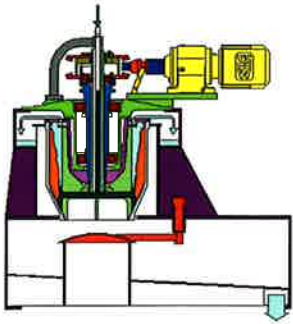


For purification of:

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

AN ENTIRELY AUTOMATIC OPERATING PRINCIPLE

Feeding/Centrifugation

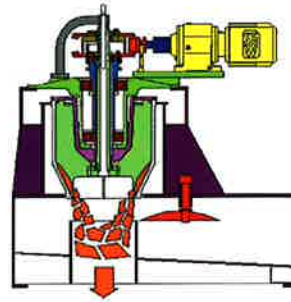


- The slurry is fed using a rotating disc that rotates at the same speed and direction as that of the bowl (minimized turbulence)

• Under centrifugal force (1500 to 2200 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

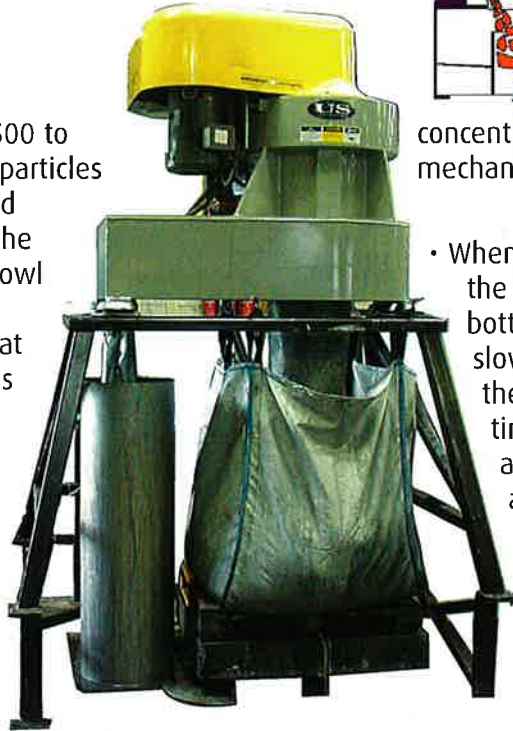


• A special device detects the effective sludge mass inside the bowl. This patented system has the advantages of:

- optimized bowl filling,
- it does not depend on feed flow rate changes or on the sediment

concentration, and avoids overfilling, 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.



TYPE	DRC30VxB0	DRC45VxB0	DRC45VxB0
Diameter (mm)	300	450	450
Total Volume (liters)	15	48	67
Sediment Volume (liters)	8	16	23
Rotational Speed (RPM)	3 000	2 500	2 500
G-force (x g)	1 510	1 570	1 570
Max. Throughput (liters/min)	75	150	220
Motor Power (kW)	2,25	7,5	11
Machine Overall Dimensions (m)	1,47x1,15x0,95	1,93x1,42x1,26	1,93x1,42x4,40

Main Characteristics

- Rigid spindle assembly
- Aluminum bowl, with open bottom, with separating deflector
- Feed pipe through the spindle / scraper assembly (4 baffles)
- 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 starting and braking and variable speed operation
- Independent control enclosure with PLC
- Protection

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