

INDUSTRIAL CENTRIFUGES for pilot plant and small scale production



EHBL 603 DRG



RC 60 Vx KSA.R



RC 40 VX

KEY FEATURES OF THIS RANGE OF CENTRIFUGES



FONCTIONNALITY

- Ideal for R&D departments, pilot and small scale production workshops.
- Wide range of centrifuges for high value-added products.



FLEXIBILITY/ SUITABILITY

- For solid/liquid filtration and/or solid/liquid decantation.
- For simple separations or more complex processes.
- For mono-product or multi-product processing.



RELIABILITY

- For standard process conditions as well as extremely challenging ones (explosive environments, hazardous materials, corrosive materials).
- Possibility of barrier-isolated centrifuge by means of a glove box or containment envelope (according to centrifuge size and type).

TOP DISCHARGE VERTICAL AXIS CENTRIFUGES

-MANUAL (DIG OUT) OR BY REMOVABLE BAG/CROWN ASSEMBLY

AVAILABLE IN TWO SOLIDS DISCHARGE VERSIONS:

Manual removal (using a scoop): RC type.

Semi-automatic removable filtration bag: RC-KSA type.

Various optional features:

- Quick release basket
- Interchangeable decanter kits to transform a filtration centrifuge into a decanting one (for RC 40 and RC 50 only).
- Fully retractable casing.
- Hoisting system for filtration bag (KSA type) or quick release basket removal.

RC-Vx.R à cuve escamotable



TECHNICAL CHARACTERISTICS

TYPE	Basket (maximal data)						
	Ø mm	Height mm	Useful volume dm³	Load kg	Filtration area m²	Speed tr/min	Centrifugal force G
RC 40	400	250	20	25	0.31	3000	2010
RC 40 KSA	400	280	18	22.5	0.31	2300	1180
RC 50	500	320	34	42.5	0.50	2250	1410
RC 50 KSA	500	320	35	43	0.50	1700	810
RC 60	600	330	55	68.5	0.57	1800	1090
RC 60 KSA	600	305	60	75	0.57	1500	750

SIMPLIFIED MODELS

- Type SA... with directly coupled axial motor

- Centrifuges which can't be supplied in an explosion-proof version, with use limited to aqueous processing.

- Direct motor coupling and electric braking.
- Triple suspension.

OPTIONS AVAILABLE

- Various materials of construction.
- Speed variation.
- Increased maximum speed.
- Feeding and washing pipes.

A VERY WIDE CHOICE OF TECHNICAL CHARACTERISTICS, CENTRIFUGES TO YOUR CHOICE

- **Rigid frame** mounted on vibration isolators (spring and visco dampers on scraper centrifuges).

- **Centrifuge and accessories installed on (inertia) plate or portable skid or trolley** (depending on the mass) manufactured from painted steel or stainless steel.

- **Side-mounted one speed electric motor with speed control** by variable frequency drive and transmission via antistatic belts.

- Centrifuge mounted **electrical equipment**: water-tight or explosion-proof according to European norms EN 60079...(ATEX compliance for the EU) or to North American norms.

- **Independent control panel**, installed outside the processing area or near the centrifuge in an **explosion-proof enclosure**.

- **Vapour-tight** construction suitable for inert gas blanketing.

- **Stainless steel** construction or other materials (Alloys, Tita-

TECHNICAL CHARACTERISTICS

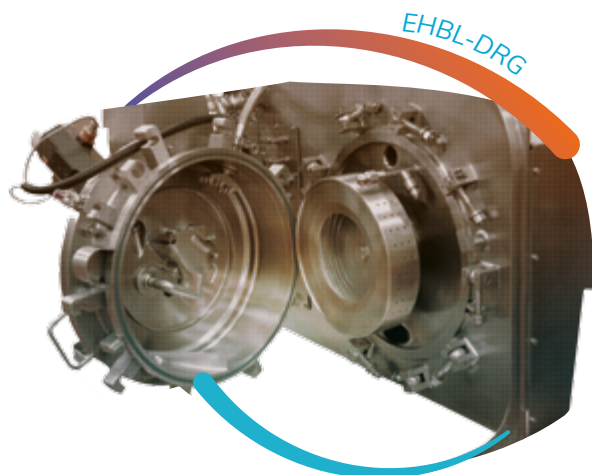
TYPE	Ø mm	Height mm	Useful volume dm³	Maximum load kg	Speed tr/min
SA 40	400	250	15	18	1500
SA 50	500	280	30	37	1500



AUTOMATIC CENTRIFUGES WITH SOLID DISCHARGE BY SCRAPER

AVAILABLE IN TWO VERSIONS:

Horizontal axis with solids discharge through an inclined chute.



Vertical axis with solids discharge through basket bottom.



TECHNICAL CHARACTERISTICS

TYPE	Basket (maximal data)					
	Ø mm	Height mm	Useful volume dm³	Load kg	Speed tr/min	Centrifugal force G
EHBL 303	300	75	2.9	3.6	3500	2050
EHBL 503	500	250	24	30	2600	1890
EHBL 633	630	315	40	50	2400	2020
RC 63 Vx DEC	630	370	50	62	1500	790

- Hydraulic actuation of the scraper (or with air-over-oil cylinder on the smallest models).
- cGMP design with possible clean room installation for horizontal axis machines.

OPTIONAL AND PERIPHERAL EQUIPMENT TO ADAPT THESE TO OUR SPECIFIC NEEDS

nium...) or coatings (Halar, special rubbers...) for selected portions or all parts in contact with products.

- Various grades of polishing and electro-polishing available.

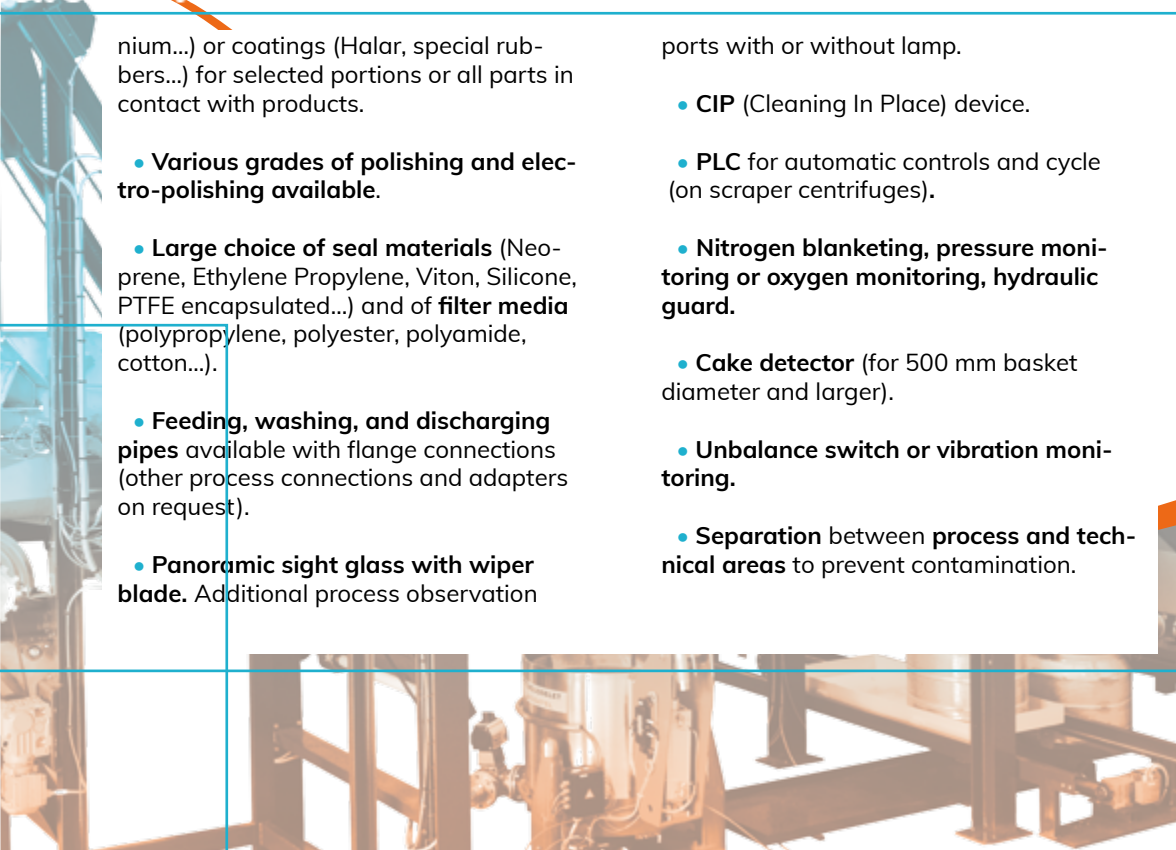
- Large choice of seal materials (Neoprene, Ethylene Propylene, Viton, Silicone, PTFE encapsulated...) and of filter media (polypropylene, polyester, polyamide, cotton...).

- Feeding, washing, and discharging pipes available with flange connections (other process connections and adapters on request).

- Panoramic sight glass with wiper blade. Additional process observation

ports with or without lamp.

- CIP (Cleaning In Place) device.
- PLC for automatic controls and cycle (on scraper centrifuges).
- Nitrogen blanketing, pressure monitoring or oxygen monitoring, hydraulic guard.
- Cake detector (for 500 mm basket diameter and larger).
- Unbalance switch or vibration monitoring.
- Separation between process and technical areas to prevent contamination.



VERTICAL AXIS DECANTING MACHINES

-TYPES DRC 40/50/60

ACCESSORIES

- **Bowl** can be fabricated with or without baffles.
- **GMP design:** full-opening casing, easily cleanable bowl with flat bottom, retractable skimmer, CIP...
- **Skid-mounted** for easy portability.
- **Many options available**, similar to those mentioned for our filtration centrifuges.
- Filtration kits available with perforated basket and wash tube (for smallest models only / Reduced maximum speed).

TECHNICAL CHARACTERISTICS

TYPE	Bowl (maximal data)					
	Ø mm	Height mm	Useful volume dm³	Load kg	Speed tr/min	Centrifugal force G
DRC 40	400	280	18	22	3500	2740
DRC 50	500	320	40	50	2750	2110
DRC 60	600	350	60	75	2600	2270

These characteristics are defined by Rousselet Robatel only, according to processed products and required purpose.

- Three models, with extremely efficient separation due to the **very high centrifugal forces generated**, *among the highest in the market.*

- **Liquid removal:** by means of skimming pipe(s) or by overflowing.
- **Solids removal:** manual or by skimming pipe.



Special design:
decanting centrifuge with solid discharge by scraper and axis at 45°.



Special design: trolley in two pieces.



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