



SUKHRAS MACHINES

Bottom Discharge Centrifuge

A WORD ABOUT US:

We are leading manufacturers of modern CENTRIFUGES in the country which are used for liquid –solid separation. We specialize in the manufacture of CENTRIFUGES for Industrial use and have a worldwide reputation as one of the leading specialist in this field. Since the establishment of our company in the year 1960, we have been manufacturing the finest, most reliable machines, always endeavoring to advance our technology. Our products incorporate the best possible quality and workmanship. We have supplied more than 4000 CENTRIFUGES in India and abroad.



KEY FEATURES OF ‘ROTEX’ BOTTOM DISCHARGE CENTRIFUGES:

‘Rotex’ bottom discharge CENTRIFUGES are of the most modern design , of sturdy construction, provide rapid acceleration , low current consumption and powerful efficient braking.

THE 4-POINT SUSPENSION:

Introducing the latest fully automatic four point suspension Bottom Discharge Centrifuge Machine made to international specification with inertia platform and vibration isolating dampeners to ensure smooth operation with following advantages:

- No foundation required
- Complete Flexibility to relocate the centrifuge in the plant.
- Drive system (Belt & Pulleys) totally enclosed and can be purged with Nitrogen gas (Special Flameproof Design).

BASKET:

Rolled copper or stainless, mild, or galvanized steel baskets are all welded and amply drilled for speedy extraction. The basket is made to suit the product. The dynamically balanced basket ensures vibration less and silent working.

THE DRIVE:

It is furnished by a totally enclosed motor controlled by infinitely variable AC inverter drive to vary basket speed with built –in dynamic braking system. The AC drive is incorporated with microcomputer and has facility to interface with Programmable Logic Controller(PLC) or Distributed Control System (DCS) for complete automation.

AUTOMATION:

The CENTRIFUGE can be made fully automatic with the help of AC Inverter variable speed drive, programmable logic controller and automated valves.

TWO SAFETY DEVICES:

The limit switch automatically cuts off power supply to the motor and the INTERLOCK prevents opening of the basket cover , until quite safe.



OPTIONAL ACCESSORIES:

- Zero Speed Interlock
- Charge regulator
- Vibration Tripper
- Nitrogen Purging Control System
- Vibration Monitoring System

WARRANTY:

One year's unconditional guarantee for fault free material and workmanship

INSTALLATION:

Our expert engineers will supervise erection of the CENTRIFUGE at your works, if required , at a reasonable service charge.

CHECK THESE ADVANTAGES OF 'ROTEX' BOTTOM DISCHARGES CENTRIFUGES

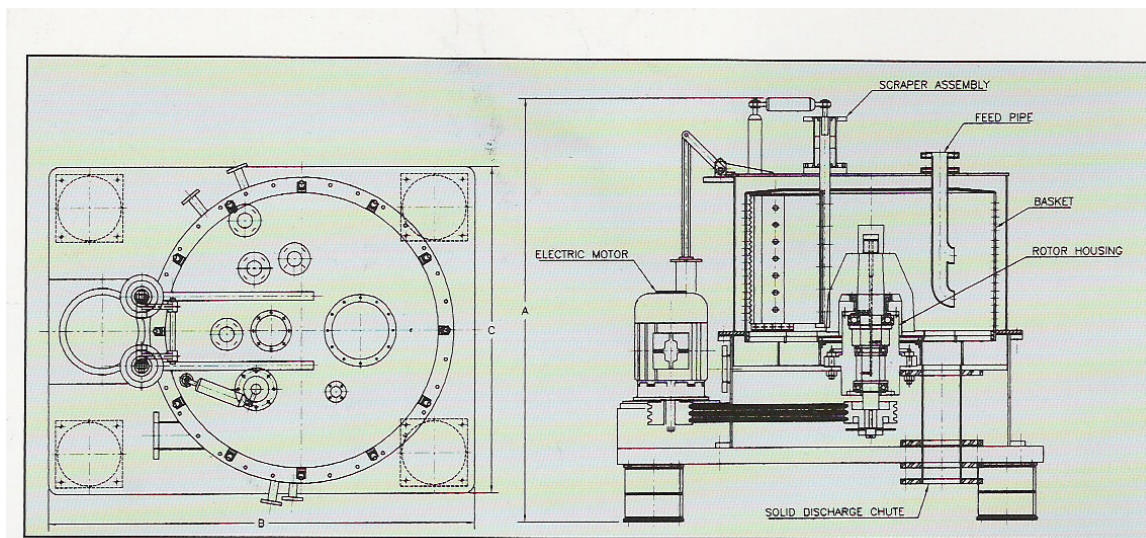
1. Easy and quick cake discharge
2. Less manual labour involved
3. Cake handling loss negligible

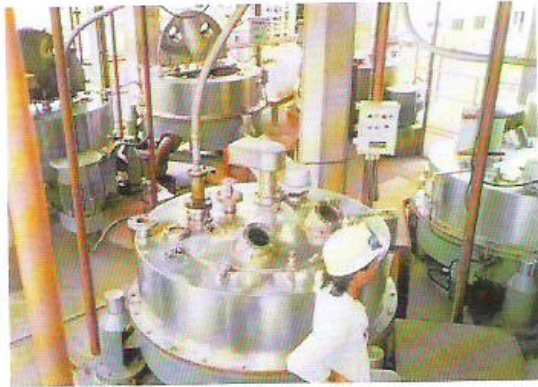
4. Easy scraping of cake through scrapper
5. Handling of discharge solids can be easily done with the help of a conveyor or trolley.
6. No manual contact with cake, thus no contamination.
7. Solids can be Discharged in totally vapour type condition, thus no health hazards and environment is clean
8. solids discharge through single outlet.
9. Good accessibility to the casing and basket makes quick cleaning and changeover to other products easy.
10. The centrifuge is driven by variable speed AC inverter drive/ Eddy current Coupling, the rotational speed of the basket can be set to match the filtration properties of the suspension
11. Discharge of solids take place at lower basket speed (around 80 RPM) thus making possible particularly gentle handling of the product. In this way, the undesirable breakage of crystals is nearly eliminated.
12. Spray jets for efficient washing.
13. Nitrogen blanketing for Centrifuge, body and bearing housing. The complete centrifuge is pressure tested as per DIN standard .



Technical Data of 4 Point Suspension Bottom Discharge Centrifuge:

Model	Unit	TAM 36	TAM 36D	TAM 48	TAM 48D	TAM 60	TAM 60D
Basket Diameter	mm.	915	915	1220	1220	1524	1524
Basket Depth	mm.	450	600	500	650	500	750
Working Capacity under lip	lbs.	160	220	300	400	500	750
Basket load (Max)	kgs.	200	275	375	500	625	930
Max. Basket Revolutions	rpm.	1100	1100	1000	1000	900	850
Centrifuge Force	G.	619	619	682	682	691	616
Filtration Area	sq.mts.	1.29	1.72	1.91	2.49	2.39	3.59
Motor Power	kW.	7.5	7.5	15.0	18.5	18.5	22.0
Overall Dimension
Length over Motor	mm.	1780	1780	2150	2150	2500	2500
Width	mm.	1220	1220	1600	1600	2000	2000
Operating Height	mm.	1500	1700	2325	2500	2250	2500
Weight of machine with the Motor	kgs.	3000	3100	4500	4750	7000	7500





1524 mm dia S. S. Bottom Discharge Centrifuges installed in a chemical factory



Bottom Discharge Centrifuge basket being dynamically balanced on our Computerised Dynamic Balancing Machine



Four Point Bottom Discharge Centrifuge (GMP MODEL) Displayed at an Exhibition.