



A range of centrifuges for solid-liquid separation in

chemical



pharmaceutical



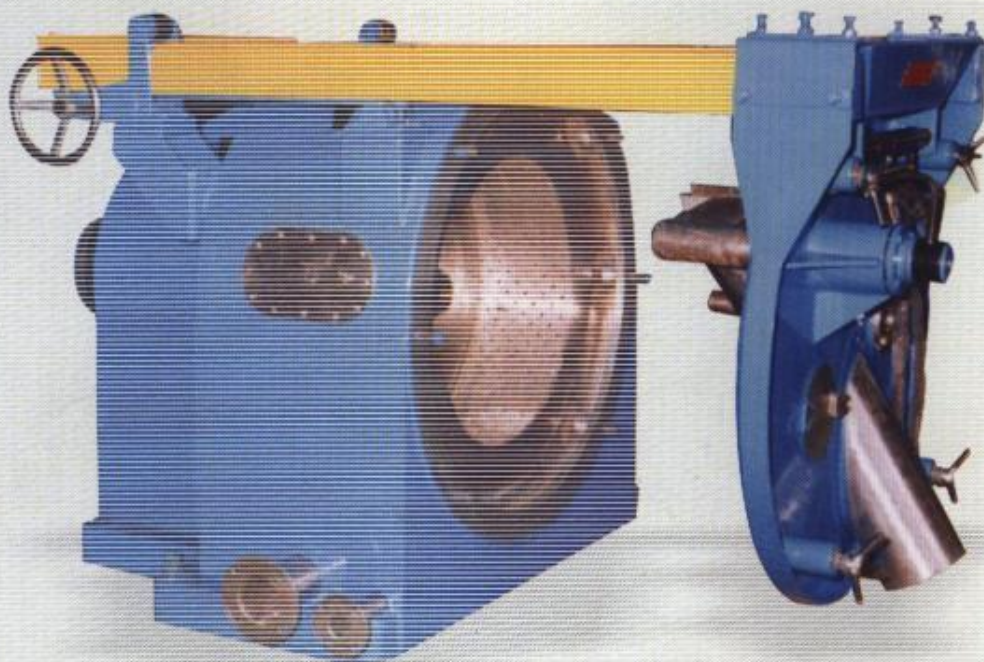
starch



sugar



textile



WHIRLER

Company History

Whirler centrifugal Pvt. Ltd. is manufacturing since 1988. Chemical processing machines mainly centrifuges. At Whirler the aim is to designs & manufacture centrifuge to suit exact requirement of customer. Being precisely engineered and manufactured to exacting industrial standard, WHIRLER centrifuges give long trouble free operating life.

Our present range of Centrifuges are as under

- Three point suspended or four point supported
 - * Manual top discharge (MTD) centrifuges.
 - * Lifting out filter bag (LB) centrifuges.
 - * Bottom discharge (BD) centrifuges.
- Horizontal basket, Peeler type (H) centrifuges.
- Horizontal basket, Pusher type (P) centrifuges.
- Top suspended, Top driven, Bottom discharge (TSB) sugar centrifuges.
- Solid bowl decanter type (D) centrifuges.
- Reversing filter bag type (RF) centrifuges. for bulk Drugs / Pharma Industries.

We also offer following Textile Processing Machine

- High Temperature high pressure Soft / Over flow dyeing machine.
- "U" Type jet dyeing machine
- Felt Type compactor
- Balloon Padder
- Tubular Dryer
- Tumbler Dryer
- Tumbler Wash - Front Loading with Extract
- Tumbler Wash - Side Loading
- Open Winch
- Jiggers

The designs of all the above machines are one of the best in the field to day. Perfectly designed & manufactured, these machines are defiantly mach more superior then the other machines at present available in the market.



Three Point Suspended-Manual Top Discharge - MTD

It is an universal centrifuge for all application of solid-liquid separation by filtration. Offered in a variety of materials of construction like - Austenitic steels, PVDF Coated-Mild steels etc. They are manufactured with the best technology in the field and gives long trouble free operational life. These are offered in carious models like.

Three Point Suspended Lifting Bag Discharge

The manual top discharge centrifuge in modified to detach and lift the Top-cap ring of the basket along with filter bag, attached to it. The bottom opening of the filter bag allow the dried solids, to be discharged-at particular place. The discharge of solids in easy and fast, manual contact with the product is avoided and the working area is clean with no spillages around. The Sizes offered are.



Three Point Suspended Bottom Discharge

The MTD models are also offered in GMP (Good Manufacturing Process) All stainless steel construction, where all contact parts are TIG welded and are ground smooth to 180 grit finish to avoid accumulation of solids. The centrifuges are offered with nitrogen purging and blanketing arrangement, in explosion / flameproof execution. The basket sizes are similar to MTD models.

Also offered are, Bottom discharge, Centrifuges with,

- Inverter drives
- Fully auto-PLC Control in GMP-Explosion / Flameproof execution.
- Full basket width / Two motion scrapper,

Model	Basket Dia mim.	Capacity		Dive HP	RPM	Basket G Value	Filt Area. sq. Mtr.
		Vol. Ltrs.	Vol. Ltrs.				
18 TL	450	20	- 25	2.0	1440	520	0.35
24 TL	600	50	- 60	3.0	1200	480	0.56
36 TL	910	160	- 200	7.5	960	470	1.35
48 TL	1220	300	- 350	15.0	800	440	1.92
60 TL	1520	450	- 550	25.0	720	440	2.40

Four Point Supporting System Centrifuge

- Four VISCO-dampers support and take load of the drive system with electric motor.
- The working area is free from obstacles. So a cleaner area can be maintained.
- The drive parts (Vee belts pulleys etc.) are isolated from the working area.
- As the liquid casing is not carrying any load can easily be opened and the inside working area can be cleaned easily.
- Because of heavy bed plate, the machine may be run without any type of fixing / foundation.
- It can easily be shifted to different locations.
- Visco-dampers are almost maintenance free



Peeler centrifuges

Peeler centrifuges are suitable for low concentration slurries with fine solids, Higher filtration area multiplied by higher 'G' values ('K' Factor) gives optimum dryness of solids. As all operations Feed-Wash-Drying-Discharge are done at full RPM of the basket, time & energy is saved and simple drive systems are required.

Offered in a variety of materials of construction like austenitic steels, PVDF coated-mild steels etc. They are manufactured with the best technology in the field and gives long trouble free operational life, Also offered in GMP (Good Manufacturing Process) All stainless steel construction.

Pusher centrifuges

Pusher centrifuges are horizontal basket centrifuges applied specifically to slurries with medium concentration (15-50% solid contents) of solids, which are very easy to filter and are of 75 micron or higher in size, and be retained on screens of 75 micron opening in operation the feed slurry get filtered out instantly on touching the screen and the dried solids are pushed forward in small strokes, along the length of the basket, by the pusher plant to be discharged out finally.

The solids can be washed along the basket and the basket can be made in two-three stage to break the cake, and turn over the solids for better washing & dryness.

The centrifuges are offered with, SINGLE/DOUBLE baskets.



Peeler centrifuges

Model	Basket Dia mm.	Capacity		Dive HP	RPM	Basket G Value	Fill Area. sq. Mtr.
		Vol. Ltrs.	Vol. Ltrs.				
63H	630	36	40	15.0	1440	730	0.5
80H	800	70	90	25.0	1200	640	0.9
100H	1000	110	120	40.0	1200	800	1.1
120H	1200	180	200	75.0	1160	850	1.6
140H	1400	470	500	100.0	1000	780	3.1
170H	1700	850	900	150.0	900	760	4.1

Pusher centrifuges

Model	Basket Dia mm.	Pusher Drive	Dive HP	RPM	Basket G Value
20 PDM	200	Mechanical	7.5	1440	240
25 PDM	250	Mechanical	10.0	1440	300
32 PDM	320	Mechanical	15.0	1440	375
42 PDM	420	Mechanical	25.0	1440	495
60 P	600	Hydraulic	60.0	1440	975

The drive hp varies as per model.

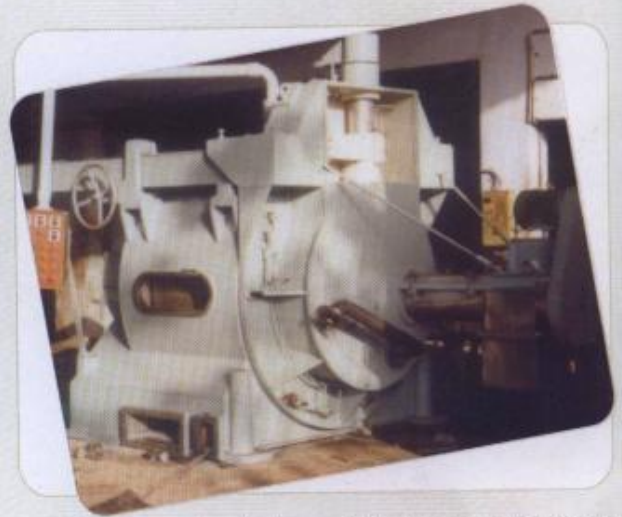
Decanter Centrifuge

The decanter centrifuge is the only sedimentation centrifuge designed from the start to handle significant solid concentration in the feed suspension. At the same time it can achieve quite good degrees of clarification of the liquid concentrate. Although a complicated piece of machinery it embodies a simple principle. They consist basically of a horizontal cylindrical bowl (1) rotating at a high speed, with a helical extraction screw (2) placed coaxially.

The screw perfectly fits the internal contour of the bowl, only allowing clearance between the bowl and the scroll. The differential speed between screw and scroll provides the conveying motion to collect and remove the solids, which accumulate at the bowl wall.



Also offered are Top Driven - Bottom Discharge - Batch SUGAR CENTRIFUGE / REVERSING FILTER BAG CENTRIFUGE



Note : Specifications mentioned above are Subject to change without notice.



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