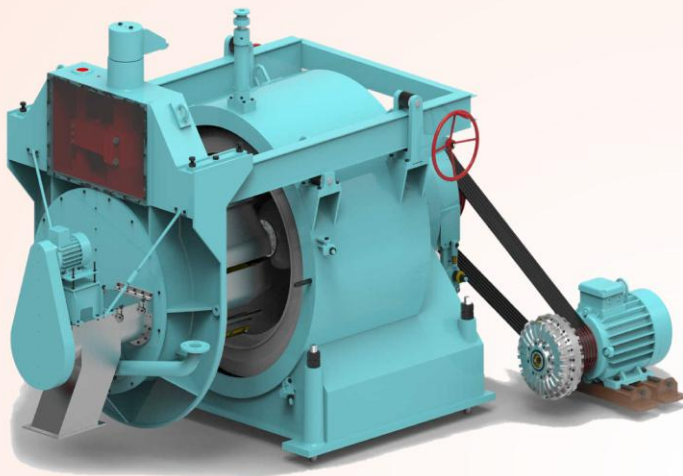
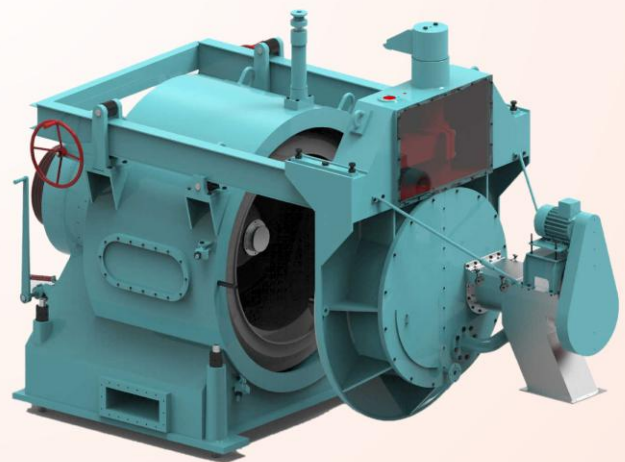


**EFFICIENT SEPARATION OF  
SOLIDS AND LIQUIDS.  
PHARMACEUTICALS  
STARCH  
CHEMICAL INDUSTRIES**



### **Whirler Features**

- ▶ Automatic heel cake adjustment
- ▶ Oil-lubricated bearings
- ▶ Solids discharge by chute or by screw conveyor
- ▶ Drive: electric motor and V-belts, or with hydraulic drive with variable or constant speed
- ▶ Automatic and manual operation with either microprocessor or pneumatic controller
- ▶ Separation of Drive area / Process area
- ▶ Removal of shaft from the rear
- ▶ Easy cloth changing
- ▶ Through wall construction



WHIRLER horizontal peeler centrifuges are batch operated Filtration centrifuges known for their reliable long running performance at high throughput, up to 50% higher output in dryness or tonnage compared to Standard Centrifuges. These machines used in many processes, primarily in the bulk chemicals, One chemicals, and food industries, notably starch from rice, maize, tapioca, potato etc. The horizontal rotor assembly is cantilever mounted and, provided with specially designed rotary basket. A convenient housing door provides access to the basket and all process components for ease of maintenance. Adding hydraulic Fluid coupling, customized PLC controls and intuitive instrumentation enables the peeler centrifuge to be optimally adapted to a multitude of processing requirements for peak performance. This machines works in continuous batch type mode with each batch timing varied from 1.5 hours to less than live minutes depending upon materials. Compared with normal centrifuge, Horizontal Peeler centrifuge has a high capacity and separation effect. The separation adopts not only the centrifugal force, but also the gravity force. Capacity of this centrifuge can be higher than normal scraper centrifuge as 40%-60% and the moisture content of filter cake is lower.

### Main applications

1. Bulk chemicals
  - a. Petrochem intermediates
  - b. fertilizers
  - c. chlorides
  - d. sulfates
  - e. calcium compounds
  - f. sodium compounds
  
2. Fine chemicals
  - a. Aluminum fluoride
  - b. amino acids
  - c. bleaching agents
  - d. pesticides
  - e. catalysts
  - f. dyestuffs
  
3. Pharmaceuticals/related
  - a. APIs
  - b. vitamins
  - c. salicylic acid
  - d. citric acid
  - e. ascorbic acid
  - f. calcium citrate
  - g. antibiotics
  
4. Plastics/related
  - a. ABS
  - b. resins
  - c. melamine
  - d. PE
  - e. PP
  - f. antioxidant agents
  
5. Foodstuff/related
  - a. Native and modified starches
  - b. artificial sweeteners
  - c. vanillin
  - d. caffeine

### Typical Process Cycle

**Feeding :** The Suspension is fed from the Storage to the basket rotating at full operational speed

**Removal of mother liquor :** Under the influence of the centrifugal force the Liquid is drained from the solids, through filter elements (filter cloth). The solids are collected as 'cake' in the basket.

**Washing :** If required, in order to remove the traces of mother liquor washing facility can be provided to thoroughly wash the solids during separation.

**Re-drying :** After giving wash or other treatment solids are further allowed to dry.

**Discharging :** Solids are 'peeled' off by means of full-basket-width scrapper and is discharged through chute in front cover of the machine or conveyed by discharged screw.

All Our Peeler Centrifuge Model Includes Complete Auto Cycle Automation, VFD Drive, Full Report On Cycle Time, Production and Running Performance .

**All Our Pharma GMP Machine Are Fully Washable & Cleanable. All Our GMP Model Comes With Anti Vibration Support And Inertia Mount For Clean Room Installation. All Non Contact Part In Pharma GMP Models Are Covered With SS316 Cover For Protection And Easy Cleaning As Well as Sound Proofing.**

MODEL	PG250H	PG450H	PG630H	100H2.0	120H2.1	140H3.1	160H4.0	180H5.0
POWER HP	10	20	30	40	75	100	150	175
Basket								
Diameter (mm)	250	450	630	1000	1200	1400	1600	1800
Length (mm)	125	225	325	600	630	780	900	1000
Volume (Liter)	8	24	45	160	270	480	760	1100
Max. Charge (Kg. Starch)	12	30	60	170	280	500	800	1150
Filteration Area	0.098	0.31	1.18	1.8	2.9	3.4	4.5	5.6
Speed(Max) (RPM)	2800	2400	2000	1400	1200	1000	960	840
"G" Value(Max)	1095	1450	1400	1200	1000	1000	800	700
Useful basket Volume	8	24	45	160	270	480	760	1100
Cake Collected / batch (Kg@35% Moist)	6	20	35	100	200	300	650	900
Average Cycle/Hr	12	12	12	12	10	10	8	8
Centrifuge (Kg) Output/Hr	72	240	420	1200	2000	2200	5200	7200
Capacity Per Day (Tonne)	1.44	2.88	5	26	44	66	110	158



## Whirler Centrifugals Pvt. Ltd.

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