

Horizontal Chemical Peeler Centrifuge



Made under Technical collaboration with Ferrum, Switzerland

Largest Peeler Centrifuge Made In India
(1600mm Dia x 1000mm Depth)

Sukhras : At the very center of the Chemical Sector

- ♦To rise on the wings of a rising star,
- ♦To reach the height of young mountains,
- ♦To attain stillness at the very center...
- ♦The Vision and aspirations of company specializing in manufacture of centrifuge.
- ♦As the pharmaceutical fields becomes one of the fastest growing sectors, Sukhras gets set for heights greater than ever before.



A look at our past

High through put, high quality products, cleaning in place system, backed by flexibility of economics are the needs of the chemical process industry in this millennium.

In this scenario, Sukhras has successfully established itself as one of the leading manufacturers of industrial centrifuges, in the pharmaceuticals and chemical industries.

To retain this worldwide reputation, our team at Sukhras is constantly working to improve technology. To this end, we have various types of centrifuges and centrifuge systems in the past 50 years. These are among the finest, most reliable and economical machines, always endeavoring to advance the technology.

Our Portfolio

Chemical Peeler Centrifuge Machines

To help the chemical process industry keep pace with ever changing demands, Sukhras has offers the latest range of CHEMICAL PEELER CENTRIFUGE MACHINES.

BASKET: The Centrifuge basket made of solid stainless steel or alloy material, as per the process requirements; is machined to close tolerance all over and heat treated for stress relieving and better corrosion resistance.

CENTRIFUGE MAIN FRAME: The centrifuge basket, bearing assembly and jacket, is horizontally mounted on a carbon steel main frame.

CENTRIFUGE SUSPENSION: The centrifuge is suspended over four points on vibration isolating sprint units. The Vibration isolating mounts are of maintenance free design, Designed with springs and filled with viscous fluid to arrest vibrations. The use of these types of punts eliminated the need for concrete foundation for centrifuge system. The centrifuge support structure/floor should be capable of withstanding static load of the system.

CENTRIFUGE CASING : The basket casing is fixed and with easy for liquor drain ability. The process line connection and peeler mechanisms are mounted on the front side of the case. The design and manufacturing of the case is such that there are no dead corners where solids are usually accumulated.

BEARING HOUSING ASSEMBLY: The main shaft is fitted with a combination of cylindrical roller bearing.

The Bearing are oil lubricated with oil circulating power station. which continuously circulates the oil throughout the operation of the centrifuging cycle. The bearing is housed in gas-tight construction, fitted with specially-designed PTFE lip seals.

Unique Features

- ♦High speed rotating machines, classified as HIGH G centrifuges.
- ♦Designed for easy cake discharge and liquor drain ability.
- ♦An effective residual heel removing system ensures almost complete removal of the cake after each centrifuging lots.
- ♦The CIP cleaning systems ensures effective and faster cleaning of centrifuge internal for product change.
- ♦Fully automated programmable logic control.



CLEANING IN PLACE SYSTEM (CIP): The centrifuge process area are fitted with multiple specially designed CIP nozzles. These nozzles are strategically located to ensure that the entire process area is cleaned and rinsed.

HEEL BLOWBACK SYSTEM: The centrifuge machine is fitted with rest cake heel blowback system. After each scrapping cycle, a residual heel remains on the basket wall, which is not desired in the process. The pneumatic blowback heel removal system consists of a fix tube mounted on the outside of the basket. The gas flow effects a short lifting of the filter cloth, thus the heel cake drops in the discharge chute. This system ensures that there is almost no material left inside the basket after peeler operation.

DRIVE AND MOTOR: The electric motor is used for the centrifuge operation, the transmission is through belt and pulley. The electric motor is controlled by means of AC variable speed drive to vary the basket speed for the different process cycles of the centrifuge machines. The drive is fitted with dynamic brake system for the basket.

CYCLIC AUTOMATION: All the process cycles of the centrifuge operation are automated through Programmable Logic Controller. The instruments mounted on the machine will communicate with the PLC system, ensuring that all the centrifuge process are performed as per the logic programs designed, specific to the process.

VIBRATION MONITORING SYSTEM FOR MAIN BEARINGS: The centrifuge is fitted with vibration monitoring system. The system continuously monitors the vibration levels of the centrifuge machine during the entire operation. The output signal from is given to PLC system which will control the centrifuge operation as per the information received.

TEMPRATURE MONITORING SYSTEM FOR MAIN BEARING: The centrifuge main bearing housing is fitted with temperature sensors, which continuously measures the temperature rise in side the bearing housing. The system is supplied with temperature indicators and controller, which communicates with PLC SYSTEM.

PEELER ASSEMBLY : The peeler of the centrifuge is actuated by hydraulic cylinder, the peelers shaft assembly, having blade and mounting arrangement: designed and located over the discharge chute, so that scrapped cake directly falls in the chute and gets discharge. The peeler plow assembly and discharge chute have high polished surface, with no dead corners for solid accumulations. The high polish ensures that material is subjected to minimum resistance when being discharged.

TECHNICAL DATA

| Centrifuge Type | | SHCP 1000 | SHCP 1250 | SHCP 1600 | SHCP 1600 |
|----------------------------|-----|--------------|--------------|--------------|--------------|
| Basket Diameter | mm | 1000 | 1250 | 1600 | 1600 |
| Basket Depth | mm | 500 | 630 | 800 | 1000 |
| Volume | 1 | 170 | 320 | 680 | 860 |
| Max.Load | kg | 215 | 405 | 850 | 1075 |
| Max. Rotation Speed | rpm | 1500 | 1200 | 950 | 950 |
| Max.Centrifuge Accelration | kw | 1250 | 1002 | 804 | 804 |
| Motor Performance | g | 30 | 37 | 55 | 75 |
| Net Weight | kgs | 7500 | 13000 | 23000 | 28000 |

NOTE: 1) Values indicated are approximate and may vary on actual machines. 2)The centrifugal force relates to the basket diameters and maximum speed.3) Basket load in kgs will vary based on bulk density of the material. 4) We reserve the rights to alter size weight and design features.



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