

## GKH Siphon Peeler Centrifuges



The GKH siphon peeler centrifuges are practically engineered on the basis of common horizontal scraper centrifuges.

### **Siphon Principle**

With the adoption of siphon principle, more pushing force is generated to assist all clarified liquid to pass through filtration media into liquid chamber. Then liquid is drained out of basket via siphon. Suction inlet placement determines liquid level in suction chamber, thus leading to changes of pushing force, filtration speed, handling capacity, cake dryness and washing efficiency.

Recoil device is available to supply washing liquid to suction chamber when it's needed. Washing liquid flows through filtration media into basket, whereby refreshing filtration function.

### **Main Features of GKH Siphon Peeler Centrifuge**

#### **1. Feeding**

Due to free adjustment on filtration speed, lower filtration speed is recommended for feeding progress, thus bypassing problems of un-even distribution of cake.

#### **2. Filtration**

Siphon pipe locates at low level in filtration stage. With column height  $H_u$  of additional liquid, filtration speed swells and processing capacity is amplified by 50%.

#### **3. Washing**

Suction inlet of siphon pipe locates at high level during washing stage, offering quite small pushing force. Therefore, washing liquid moves slowly, resulting in prolonged time of remaining in cake, minimized washing liquid consumption and better washing effects.

#### **4. Dewatering**

In this period, suction inlet of siphon pipe is deployed at the lowest level, generating the largest pushing force. As a result, water contained in cake can be readily drained out.

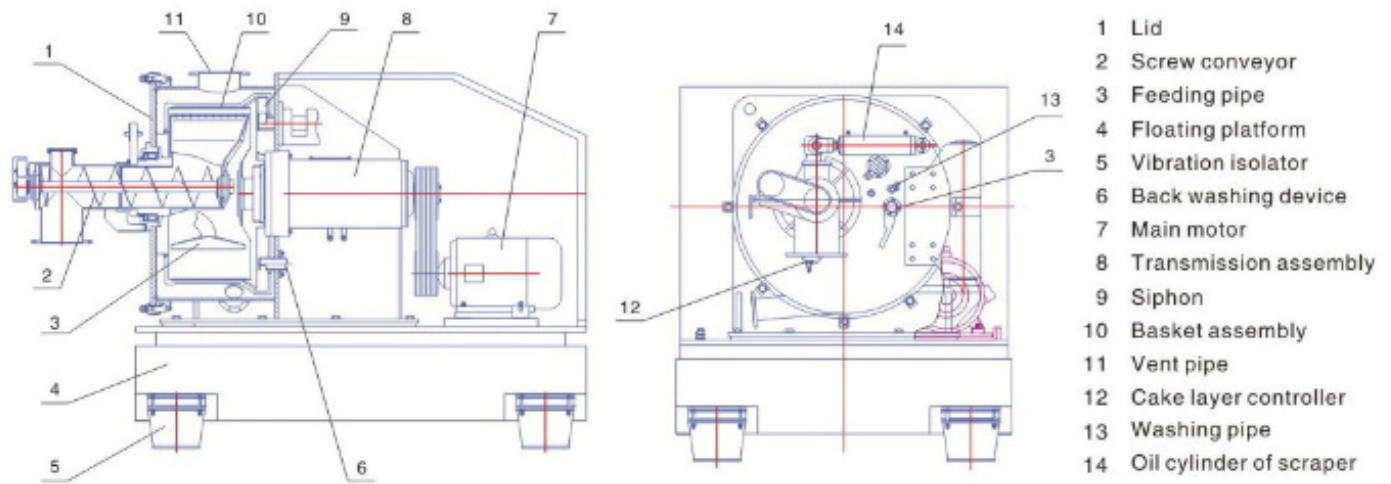
#### **5. Backwashing**

After scraper discharging, washing liquid can be added into siphon chamber from outside. The washing liquid flows through filtration media into basket for backwashing, which brings exceptional washing effects and regeneration ability to filter cloth.

## Main Application of GKH Siphon Peeler Centrifuge

This starch separation equipment is highly recommended for applications where requiring large volume production, high cake dryness and remarkable washing effect. Therefore, our enclosed centrifuge is applicable for separation of starch, sodium bicarbonate and calcium phosphate, etc.

## Structure of GKH Siphon Peeler Centrifuge



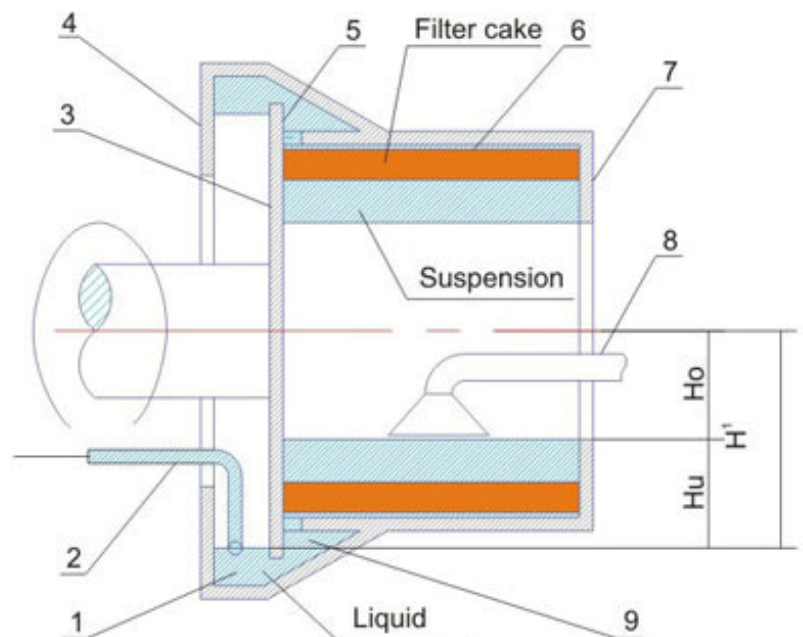
## Starch Processing Capacity and Centrifugal Force (For Reference)

Item	Productivity (t/h)	Moisture content (%)	Solid-phase Material Loss (%)
GKH800	0.8-1.2	35-38	0.05
GKH1000	2.0-2.5	35-38	0.05
GKH1250	3.5-4.5	35-38	0.05
GKH1600	8.0-10	35-38	0.05

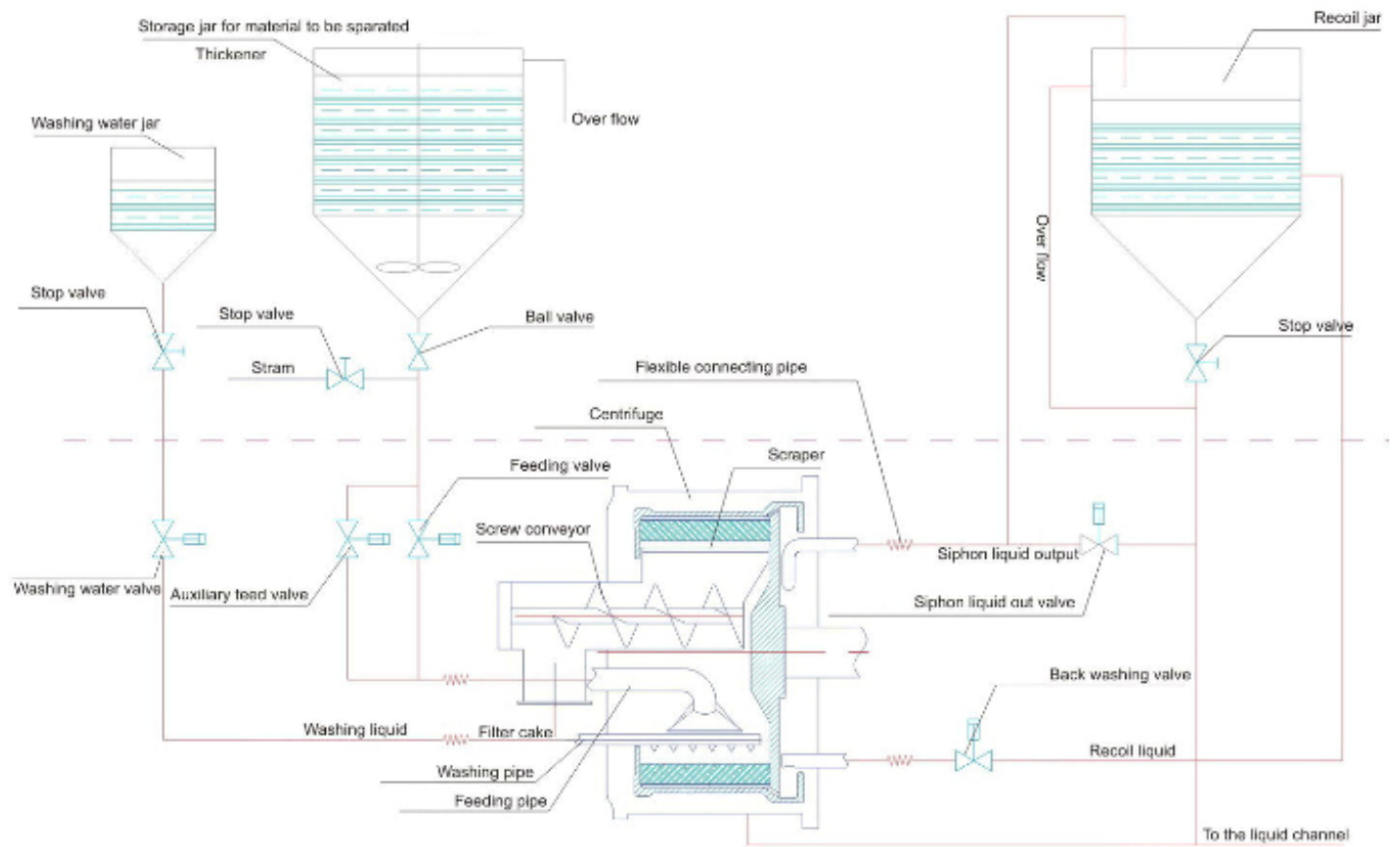
## Working Principle of GKH Siphon Peeler Centrifuge

$$V = K \frac{H_0 + H_u}{H^1}$$

- 1 Siphon chamber
- 2 Siphon pipe
- 3 Basket
- 4 Auxiliary basket
- 5 Partition plate
- 6 Screen
- 7 Basket lip
- 8 Feeding pipe
- 9 Liquid chamber



## Workflow of GKH Siphon Peeler Centrifuge(For Reference Only)



## Technical Parameter of GKH Siphon Peeler Centrifuge

Item	Model			
	<a href="#">GKH800</a>	<a href="#">GKH1000</a>	<a href="#">GKH1250</a>	<a href="#">GKH1600</a>
Basket Dia. (mm)	800	1000	1250	1600
Basket Length (mm)	450	500	625	800
Basket Volume (L)	100	172	370	690
Max. Load (kg)	135	240	500	930
Max. Speed (rpm)	1550	1350	1200	950
Centrifugal Force	1080	1020	1007	808
Motor Power (kW)	45	55	90	132
Dimension (L×W×H) (mm)	2550×1850×1350	2400×2150×1700	3450×3300×2500	4550×2750×2300
Weight (kg)	4000	8000	12000	16550