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GQ Tubular Bowl Centrifuge

High-speed tubular bowl centrifuge for liquid-solids separation

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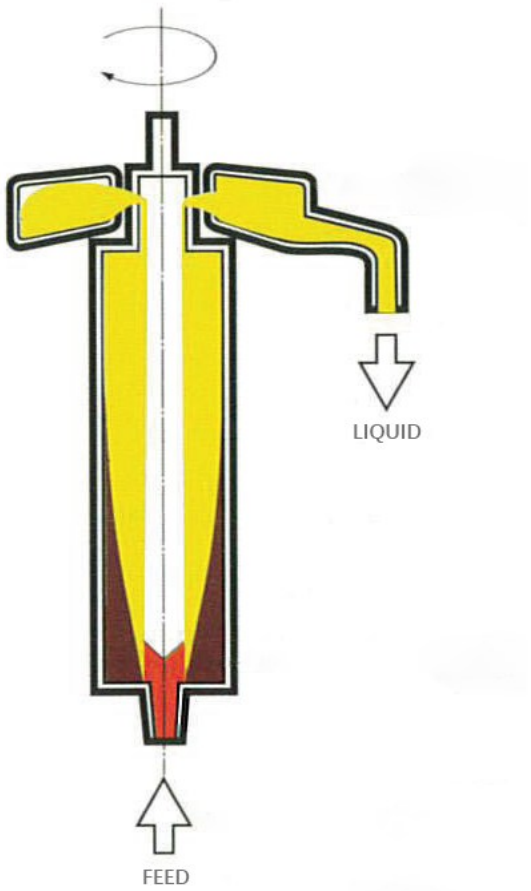
Tubular bowl centrifuge

A tubular bowl centrifuge is a device that uses centrifugal force to separate liquids or fine particles from liquids. The working principle is that when the bowl rotates at high speed, different materials experience different centrifugal forces and move to different positions in the vertical tubular bowl. Tubular Centrifuges comprises of bowl, AC motor & starter. The bowl rotates at 14000-17000 r.p.m. generating a centrifugal force of 15000-23000 times the gravitational force.



Working principle

GQ Tubular bowl centrifuge working principle: The motor transmits the power to the driven wheel through the transmission belt and the tension wheel, so that the bowl rotates around its own axis at high speed, forming a strong centrifugal force field. The liquid mixture to be separated enters the nozzle of the Centrifuge placed at the bottom base. The Centrifugal force acts on the liquid entering to their specific gravities. Under the action of centrifugal force, the solid phase particles in the liquid phase Since the density is greater than that of the liquid phase, it gradually moves to the inner wall of the bowl to form a sediment layer, and the clarified liquid is discharged from the upper discharge port. When the thickness of the sediment layer affects the clarity of the liquid phase, or reaches the rated slag capacity of the bowl, manually remove the sediment on the bowl wall after shutdown.

Typical applications

The tubular centrifuge is finding an increasing number of applications because of the ultra-high centrifugal force, typical uses are as follows:

- purification of vaccines
- purification of lubricating and industrial oils
- clarification and purification of food products
- separation of plasma and blood fractionation
- separation of immiscible liquids

Designation	Bowl ID	Bowl Volume	Bowl Speed	G-force	Hydraulic capacity	Motor	Weight	Dimension
	mm	L	r/min	g	L/h	Kw	kg	mm
GQ76	76	2	20000	17000	200	1.5	180	650*380*1150
GQ105	105	6	16000	15000	1200	3	550	800*450*1620
GQ142	142	11	17000/14000	23000/15500	2000	3	950	910*620*1770