

Manufacturers of :  
Decanter Centrifuge  
High Speed Centrifuge  
Edible Oil Refining Plants  
Fish Oil Refining Plants  
Separators  
Filters



Manufacturers of  
High Quality Decanter Centrifuge

*Sharp on Quality, Durability and Cost Effective*



**SHARP ENGINEERING WORKS**

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## Decanter Centrifuge Solid-Liquid Separator

### Continuous Separation

Virtually all branches of Industry need to separate solid from liquid at some point in their manufacturing processes. Sharp has more than 10 years of experience in meeting this requirement using Decanter Centrifuge technology.

### How a Decanter Centrifuge works?

A Decanter Centrifuge separates solids from one or two liquid phases in one single continuous process. This is done using centrifugal forces that can be well beyond 3000 times greater than gravity.

When subject to such forces, the denser solid particles are processed outwards against the rotating bowl wall, while the less dense liquid phase forms a concentric inner layer. Different dam plates are used to vary the depth of the liquid – as required. The sediment formed by the solid particles is continuously removed by the screw conveyor, which rotates at a different speed than the bowl. As a result the solids are gradually ploughed out of the pond and up the conical beach.

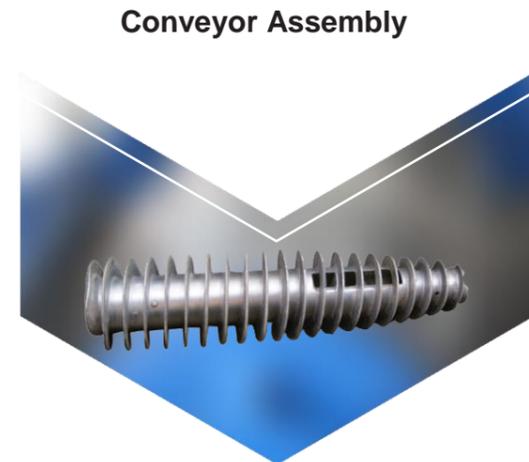
The centrifugal force compacts the solids and expels the surplus liquid. The dried solids then discharge from the bowl. The clarified liquid phase overflow the dam plates situated at the opposite end of the bowl.

### Material Technology

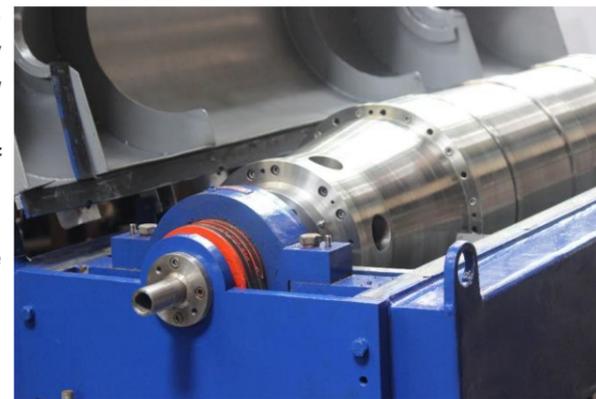
Sharp uses high grade centrifuge cast stainless steel for all parts come into contact with the process, in order to avoid any risk of the corrosion associated with the uses of carbon steel.

**Application:**  
Chemical, Pharmaceutical. Oil and Fats

**Capacity:**  
1000 to 25000 LPH



Conveyor Assembly



Bowl Assembly



Variable Back Drive Assembly

## High Speed Centrifuge Liquid-Liquid Separator

### High Speed Tubular Bowl Centrifuge

High Speed Vertical Tubular Bowl Centrifuge, generating centrifugal force in excess of 16000 times the force of gravity. This centrifuge used for continuous separation of two immiscible liquids having different specific gravities, and for clarification of liquid.

### Description

A slow acceleration special motor and starter operates this machine. The slurry is fed through the bottom of the bowl and the separation takes place inside the bowl by centrifugal force created by high speed. It creates separate circle of layers and comes out continuously through the bowl top and further separate discharges through covers.

### Standard Material

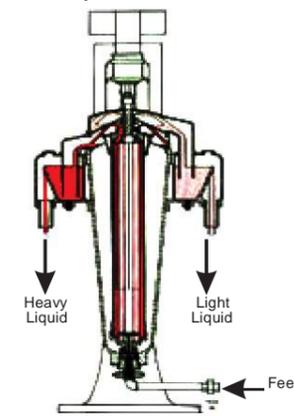
The High Speed Centrifuge has a prominent frame and a high grade steels

**Application:**  
Chemical  
Pharmaceutical  
Oil and Others

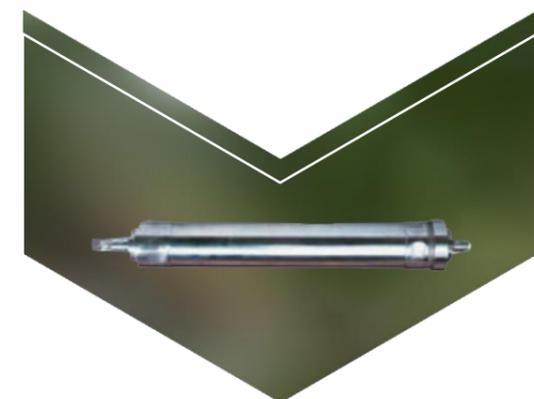
**Capacity:**  
1250 LPH

### Advantages

Increased daily production  
Highly economical operational costs.  
No recurring expenses.  
Zero spillage due to close and com operations.  
Easy to apply and user friendly.



Heavy Phase  
& Light Phase Discharge



Centrifuge Bowl Assembly



Drag & Liquid Feed Assembly