



High-Speed Tubular Centrifuge

Solid-Liquid and Liquid-Liquid-Solid Separation

- > Continuous Operation
- > Operational Safety
- > Small Footprint
- > Flexible Configuration



Core Features

1. Versatile Performance

> Engineered for both solid-liquid (GQ Series) and liquid-liquid-solid (GF Series) separation, our tubular centrifuges deliver efficient clarification, purification, concentration, and recovery—tailored to a wide range of industrial applications

2. GMP-Compliant Construction

> Built with a SUS304 exterior and SUS316L product-contact surfaces, the system meets pharmaceutical-grade Good Manufacturing Practice (GMP), guaranteeing hygiene, durability, and full regulatory compliance.

3. Superior Separation Efficiency

> Reach maximum operational performance with speeds up to 20,000 rpm and centrifugal forces of 17,000 × g—ensuring sharp separation, high purity, and consistent output.

4. Intelligent Safety Assurance

> Real-time rotor and chamber temperature monitoring, coupled with an over-temperature alarm, provides proactive protection and secure operation under demanding conditions.

5. Smooth & Silent Operation

> Premium FAG bearings and Swiss-made Habasit drive belts significantly reduce noise and vibration, with factory-tested vibration levels 60% below industry standards.

6. Modular Flexibility

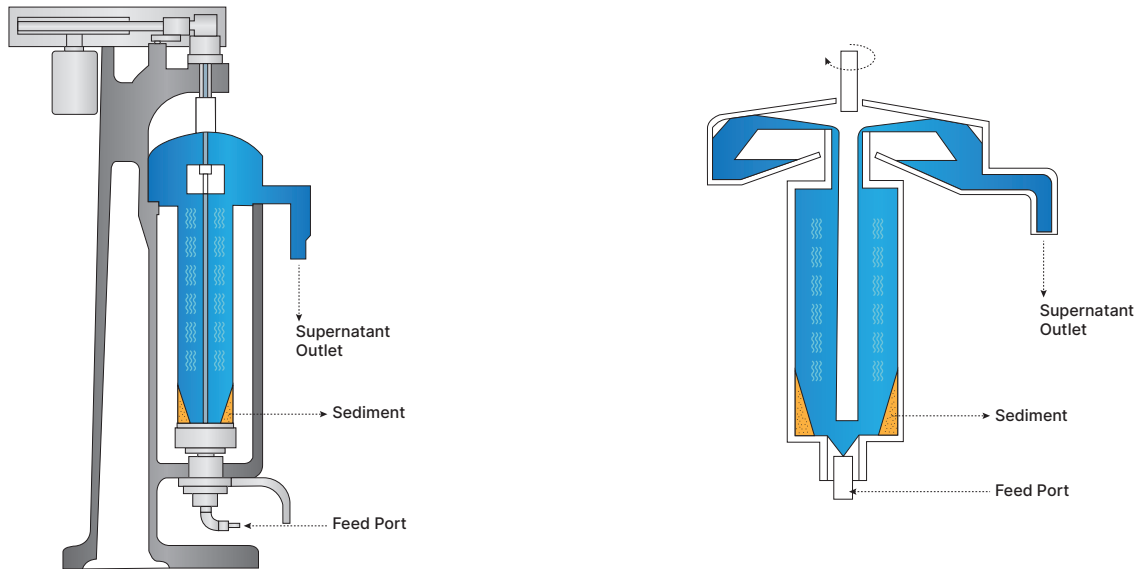
> Customize your centrifuge with options such as feed pumps, internal cooling coils, mobile trolleys, PLC controls, and full automation packages—adapting seamlessly to your process needs.



Model		GQ-75	GQ/GF-105	GQ-150
Production capacity	L/h	50.....200	80.....600	100.....1000
Water capacity	L/h	200	1200	2000
Rotation speed	Rpm	0.....20000 (17000×g)	0.....16000 (15600×g)	0.....14000 (15900×g)
Bowl capacity	L	2	6	11
Bowl capacity	L	1.4	4.2	7.7
Bowl dimension [ID×H]	mm	76 (∅) × 490	105(∅) × 490	142(∅) × 490
Door opening		N/A	Front	Front
Power consumption	kW	1.5	3	3
Power requirement		380V/ 3Phase /50Hz	380V/ 3Phase /50Hz	380V/ 3Phase /50Hz
Dimension [W×H×D]	mm	750 × 1150 × 380	800 × 1620 × 450	900 × 1660 × 510
Weight	Kg	170	415	550

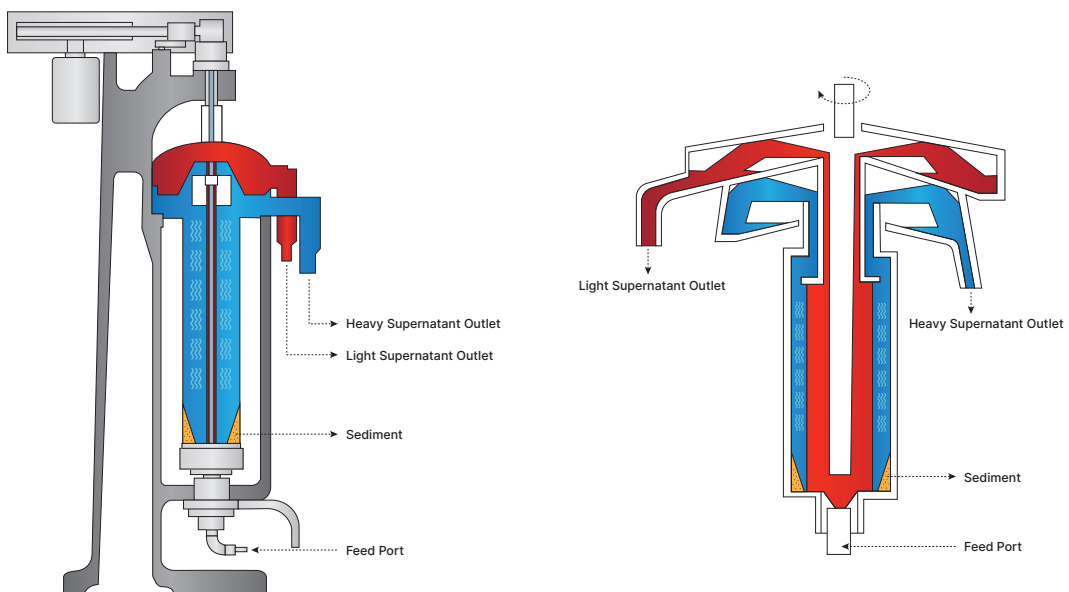
Working Principle Diagrams

GQ (Solid-liquid separation) Type



Feed enters the bowl from the bottom port. Under high-speed centrifugal force, the liquid is clarified and discharged from the top outlet, while solids accumulate on the bowl wall for manual removal after operation.

GF (Liquid-liquid-solid separation) Type



Feed enters the bowl from the bottom port, where the heavier liquid forms the outer layer and the lighter liquid forms the inner layer. The two liquid phases are discharged separately through dedicated outlets, while trace solids remain on the bowl wall and are removed manually after operation.

Structure



SS316L Rotor



SS304 Round Housing



Mounting Plate



Rotor Table With Wheels
(mobile bracket workbench)



Motor



Control Cabinet



Manual Oil Lubricator



Application



Pharmaceutical Applications

Separation and harvesting of pharmaceutical intermediates, herbal extracts, plant fibers, and chlorella with high purity and compliance.



Food Processing

Clarification and concentration of soy-based products, fats, vegetable oils, starches, grains, gelatin, amino acids, soy sauce, and milk fat reduction.



Chemical Industry

Purification, recovery, and treatment of inks, coatings, ammonia, barium, aluminum, zinc, activated carbon, and dyes.



Wastewater Treatment

Efficient treatment of industrial wastewater, including leather effluent, petroleum tank sludge, waste oil, and strained liquid wastes.



Additional Industries

Widely used in milk fat processing, cosmetics manufacturing, cod-liver oil refinement, yeast processing, and various solid-liquid separation tasks.

Options



Rotor Loading and Unloading Device



Spare Rotor



Rotor Made of Titanium / SS 2205



PTFE Sheet for Rotor



Check Valve for Rotor



Stainless Steel Mobile Platform

Upgrades



Cooling Coil Around Rotor



Square Chamber



Electromagnetic Lock



Explosion-Proof Electric Control Cabinet



Explosion-Proof Motor



Explosion-Proof Temperature Sensor



Siemens PLC Control System (Standard or Explosion-Proof)



Vibration Sensor (Standard or Explosion-Proof)



Automatic Lubricator

Supporting Equipment

Chiller
LSJ-2



Peristaltic Pump
WG600F (Standard) FG601S(Ex)

