

High-Speed Tubular Centrifuge

Solid-Liquid and Liquid-Liquid-Solid Separation

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





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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.

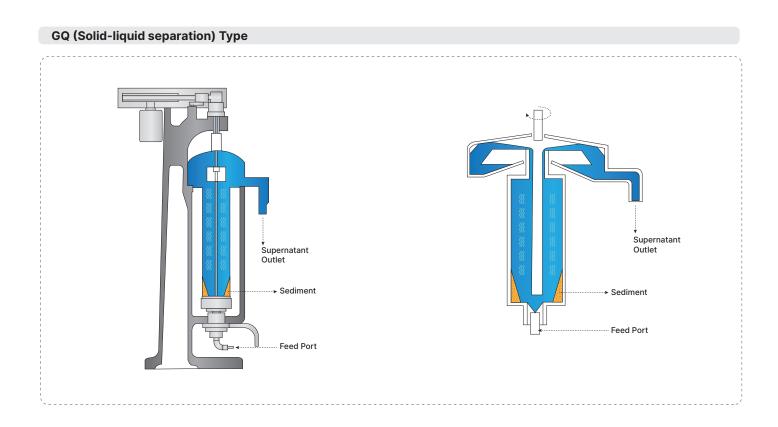
6. Modular Flexibility

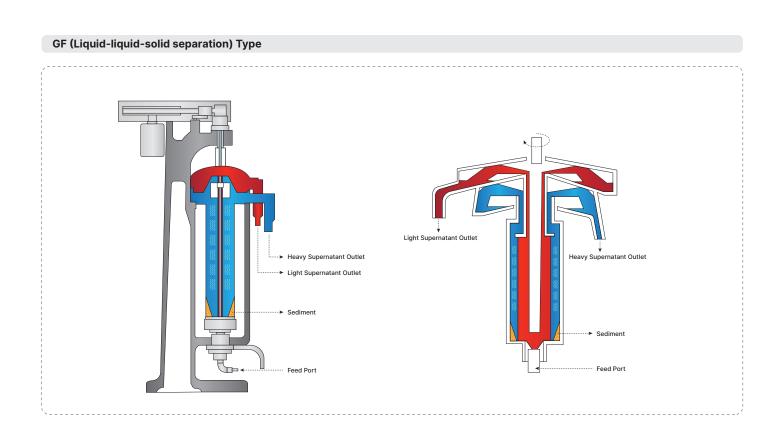
> Customize your centrifuge with options such as feed pumps, internal cooling coils, mobile trolleys, PLC controls, and full automation packages—adapting seamlessly to your process needs.



Model		GQ/GF-75	GQ/GF-105	GQ/GF-150
Production capacity	L/h	50200	80600	1001000
Water capacity	L/h	200	1200	2000
Rotation speed	Rpm	020000 (17000×g)	016000 (15600×g)	014000 (15900×g)
Bowl total capacity	L	2	6	11
Bowl capacity	L	1.4	4.2	7.7
Bowl dimension [IDxH]	mm	76 (ø) × 490	105(ø) × 490	142(ø) × 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 [WxHxD]	mm	750 × 1150 × 380	800 × 1620 × 450	900 × 1660 × 510
Weight	Kg	170	415	550

Working Principle Disgram





Structure



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



Rotor table with wheels (mobile bracket workbench)



Rotor made of titanium / SS 2205



PTFE Sheet for rotor



Check valve for rotor



Peristaltic pump

Upgrades



Cooling coil around rotor



Square chamber



Stainless steel mobile platform



Conventional explosion-proof electric control cabinet



Explosion- proof motor



Touch Screen Control System (Siemens PLC)



Vibration Sensor (Standard or Explosion-Proof)



Electromagnetic Lock



Automatic Lubricator