



LOW SPEED CENTRIFUGE

Low Speed Centrifuge

Low Speed Centrifuges | 12 x 15 mL up to 4 x 750 mL, Reaching 5,310 x g

Low speed centrifuges separate samples below roughly 6,000 rpm, where intact cells and clean interfaces matter more than raw force. Clinical laboratories run them for serum, plasma, and urine sediment. Research and production groups use them to harvest cells and clarify bulk volumes. This Torontech range spans 12 x 15 mL through 4 x 750 mL.

Rotor choice drives the result. Fixed angle rotors pellet quickly over a short path length. Swing-out buckets deliver a flat pellet that decants cleanly. Several models accept microplate rotors for assay work, and the largest unit offers refrigeration for temperature sensitive samples.

Why Choose Torontech for Your Low Speed Centrifuge

Torontech supplies testing and measurement equipment to laboratories and manufacturers across North America and worldwide, backed by responsive technical support and calibration service. The Low Speed Centrifuge range is built for reliable, standards-driven results, so you can standardize on one supplier as your testing needs grow. Our team helps you match the right configuration to your samples, applicable standards, and throughput, then supports you through installation and beyond.

Request a Quote

Tell us your sample volumes, tube formats, and the g-force your protocols call for, and we will point you to the right model. [Contact the Torontech team](#) for pricing, rotor options, and lead times.

APPLICATIONS

Applications

Low speed centrifugation supports diagnostic, research, and production laboratories wherever a sample needs separating without damaging what it contains.

- **Clinical Chemistry and Serology:** serum and plasma separation ahead of analyzer runs and immunoassay panels.
- **Urinalysis:** sediment concentration in 10 mL and 15 mL tubes before microscopic examination.
- **Blood Banking and Transfusion Services:** donor sample preparation, red cell washing, and plasma, buffy coat, and packed cell separation in volumes up to 750 mL.
- **Cell Culture and Bioprocessing:** harvesting mammalian and bacterial cells out of suspension and spent medium.
- **Molecular Biology:** recovery of nucleic acid and protein precipitates across microtube and conical formats.
- **Microbiology and Virology:** concentration of cultures and infectious material inside aerosol-tight buckets.
- **Andrology:** sperm washing and seminal plasma removal at the gentle conditions those protocols require.
- **Plate-Based Assays:** spin-down of ELISA, deep-well, and filter plates for extraction and cleanup work.
- **Pharmaceutical and Environmental Testing:** clarification of suspensions, emulsions, and large volume aqueous samples.

TECHNICAL SPECIFICATIONS

Low Speed Centrifuge Range

Seven models cover the range, separated mainly by capacity, g-force ceiling, and rotor style. The table below maps each one to the work it suits.

Model	Maximum Capacity	Speed / RCF	Description
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ToronCent™ LS LC	4 x 750 mL	5,500 rpm / 4,904 x g	The high volume unit, offered refrigerated (-20°C to 40°C) or ambient. Four rotors, aerosol-tight autoclavable buckets, a 7-inch touchscreen, and 100 stored programs. Suits blood banks, cell culture facilities, and any lab spinning 3 L per cycle.
ToronCent™ LS MP	4 x 500 mL	5,500 rpm / 5,310 x g	The widest rotor set in the range: five rotors covering 15 mL angle work, 100 mL and 200 mL swing loads, 500 mL buckets, and 96-well plates. Built for labs that switch sample types several times a day.
ToronCent™ LS B	4 x 250 mL	5,300 rpm / 4,113 x g	A touchscreen benchtop model with automatic rotor identification and aerodynamic oval buckets that cut chamber noise and sample warming. Five rotors, five-step programs, and self-diagnostic monitoring.
ToronCent™ LS SB	4 x 250 mL	5,000 rpm / 4,390 x g	An all-horizontal line-up with no fixed angle option, so every run produces a flat pellet. Interchangeable brackets plus a microplate rotor taking ELISA, deep-well, and filter plates.
ToronCent™ LS CL	4 x 50 mL / 16 x 15 mL	4,200 to 6,000 rpm / 5,120 x g	A three-model clinical series on one platform, pairing angle rotors with a shared swing rotor. Sized for hospital labs, physician offices, and andrology units working blood, urine, and semen.
ToronCent™ LS S	12 x 20 mL	4,000 rpm / 2,200 x g	A dedicated serum station at 12 kg and 100 W, the quietest and lightest unit here. Four angle rotors hold up to 24 blood collection tubes, with 5 mL and 7 mL adapters throughout.
ToronCent™ LS BB	12 x 15 mL	5,000 rpm / 3,555 x g	A transfusion bench unit built around protocol repeatability: 50 stored programs, a 15 second acceleration ramp, an inching function, and a stainless steel chamber. Fault self-diagnosis covers overspeed, imbalance, and door lock.

How to Choose the Right Low Speed Centrifuge

- **For bulk component or cell culture volumes:** choose the LS LC, the only model reaching 4 x 750 mL and the only one offered refrigerated.
- **For a shared bench handling mixed sample types:** choose the LS MP, whose five rotors cover microtubes through 500 mL bottles and microplates.
- **For temperature sensitive samples on long runs:** choose the refrigerated LS LC, which holds $\pm 0.5^{\circ}\text{C}$ with scheduled pre-cooling.
- **For soft pellets, buffy coats, or anything you decant by hand:** choose the LS SB, where every rotor swings horizontal.
- **For plate-based assay work:** choose the LS SB or LS MP, the two models with dedicated microplate rotors.

- **For a hospital or physician office running blood, urine, and semen:** choose the LS CL series and pick the model by the g-force your protocols specify.
- **For high volume serum and plasma only:** choose the LS S, sized for a collection room or satellite site at 62 dB(A).
- **For a transfusion or immunohematology bench:** choose the LS BB, whose 50 stored programs and 15 second ramp hold a short protocol steady across shifts.
- **For rotor safety across multiple operators:** choose the LS B or LS LC, the two models with automatic rotor identification and speed limiting.



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