

AUTOMATED CENTRIFUGES

YOUR CENTRIFUGE INTEGRATION PARTNER



Controlled environment for the sample. Centrifuging blood or other temperature sensitive samples requires an accurate, controlled temperature environment, so that samples always remain at the temperature they started at before centrifugation. Hettich has temperature-controlled centrifuges to maintain a stable environment at the correct temperature.

High throughput. In a high throughput environment, sample capacity is important. The Rotanta 460 has a 460 mm diameter chamber and high capacity buckets on a 4-place rotor to maximize sample volume for each centrifugation cycle.

Sample size. From blood tubes 50ml and 15 ml and other sample tubes, to SBS format plates, 2ml microliter tubes and HPLC tubes. Hettich has a solution for integrating most centrifugation requirements on all automation platforms.

High Speeds. Performance must be able to meet the requirements of the application. Blood, HPLC, DNA extraction etc. are possible with g-forces up to 18,000xg.

Precision positioning. Samples are precisely positioned under a hatch in the lid for extraction. An optical encoder allows positioning to within 0.5 mm.

Integration. The centrifuge acts as an integrated slave module to the automation system. All programming and information requests are controlled by the central controller.

Quiet and Safe. Even at high speeds, Hettich centrifuges operate quietly and safely. Designed and built to meet international safety and quality requirements, Hettich centrifuges are tested and validated to the highest standards.



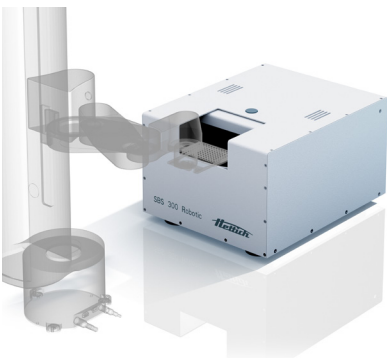
Fast and Compact: The **MIKRO 220 Robotic** automated centrifuge is an air-cooled, externally controlled microliter centrifuge with PC activation. It centrifuges tubes up to 2.0 mL (e.g. microliter tubes or HPLC tubes) quickly and safely.

- Compact for small volumes
- High-speed up to 18,516 x g
- 90° swing-out rotors for microliter and HPLC tubes
- Rotor positioning accuracy
- Continuous status communication



Flexible and Versatile: The **ROTINA 380 Robotic** automated centrifuge is available with or without temperature control in a benchtop or under-bench version capable of centrifuging microtiter plates and blood collection tubes.

- Max. RCF of 4,696 x g
- 48 blood tubes
- 6 microtiter plates
- Rotor positioning accuracy
- Continuous status communication



Easy Loading: Our newest centrifuge, the **SBS 300 Robotic**, extends the Hettich automated portfolio towards even more compact solutions. The SBS 300 is a deep-well compatible plate centrifuge designed with busy, multi-step integrations in mind.

- High Speed w/max RPM of 6300 min⁻¹ (4593 RCF)
- Front-loading hatch
- 5 s positioning time
- High imbalance tolerance of 50 g
- External active cooling available



Proven and Powerful: Our **ROTANTA 460 Robotic** automated centrifuge models have been successfully deployed in many of today's industry leading automation systems. The ROTANTA is the only high g-force, high capacity model in the market today.

- High speed with a max. RCF of 6,446 x g
- 80 blood collection tubes
- 24 x 50 ml conical tubes
- 16 microtiter plates
- Industry leading automated centrifuge
- Rotor positioning accuracy

Learn more: hettweb.com/product-category/automation/

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Hettich products are designed to help you achieve optimal results for your application and are built to perform to the specifications outlined in the operators manual. For application specific information and settings, please refer to your organizations standard operating procedure. As always, our Hettich representatives are here to help determine which Hettich products and/or accessories best fit your laboratory requirements.