

# AUTOMATED CENTRIFUGES

## YOUR CENTRIFUGE INTEGRATION PARTNER



- MIKRO 200 Robotic / SBS 300 Robotic /  
ROTINA 380 Robotic / ROTANTA 460 Robotic

**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 guarantees accurate rotor positioning every time.

**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, Reliable, 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.

**Learn more:** [hettweb.com/automation](http://hettweb.com/automation)

# HETTICH AUTOMATED CENTRIFUGES



MODEL	MIKRO 220 Robotic	SBS 300 Robotic	ROTINA 380 Robotic	ROTANTA 460 Robotic
<b>Ideal for</b>	<b>Fast and Compact:</b> 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.	<b>Easy Loading:</b> 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. Available with external cooling, SBS 300R Robotic.	<b>Flexible and Versatile:</b> 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.	<b>Proven and Powerful:</b> 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.
<b>Max. Capacity</b>	24 x 2 mL tubes	2 MTP	48 BCT; 6 MTP	80 BCT; 16 MTP
<b>Max RCF</b>	18,516	4,593	4,696	6,446
<b>Imbalance tolerance</b>	2 g	50 g	35 g	45 g
<b>Communication</b>	RS232	RS232	RS232	RS232
<b>Refrigeration</b>	No	Yes	Yes	Yes
<b>IVD and MD certified</b>	Yes	No	Yes	Yes
<b>Hatch release (seconds)</b>	< 8 s	< 6 s	< 12 s	< 12 s
<b>Positioning modes</b>	Fast+Slow	Fast+Slow	Fast+Slow	Fast+Slow
<b>Weight (lbs)</b>	60	154	179	340
<b>Dims (HxWxD) (in.)</b>	10.5 x 16 x 16.25	12 x 16 x 20	18.75 x 18.5 x 25.5	27.25 x 22 x 30
<b>Warranty†</b>	2 years	2 years	2 years	2 years

\*Please inquire about the fit of your specific tube dimensions. † Warranty valid in U.S. and Canada only, see warranty statement for complete details

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