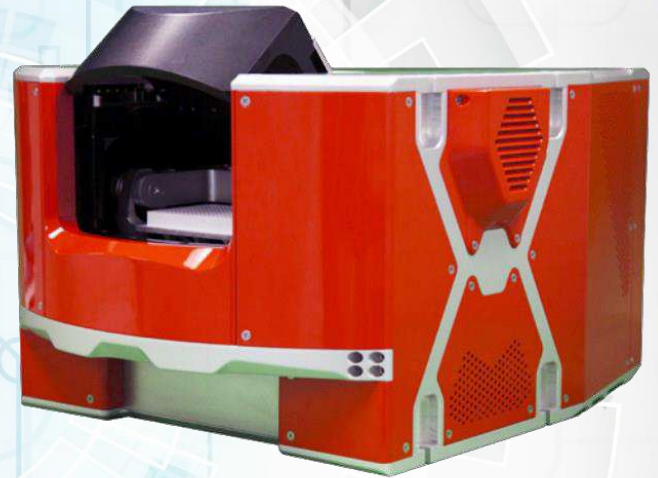


# HiG™ AUTOMATED CENTRIFUGE

**BioNex**  
Solutions Inc.

- *High centrifugal force*
- *Imbalance tolerant*
- *Better pelletizing*
- *Cleaner supernatants*
- *Faster filtration*

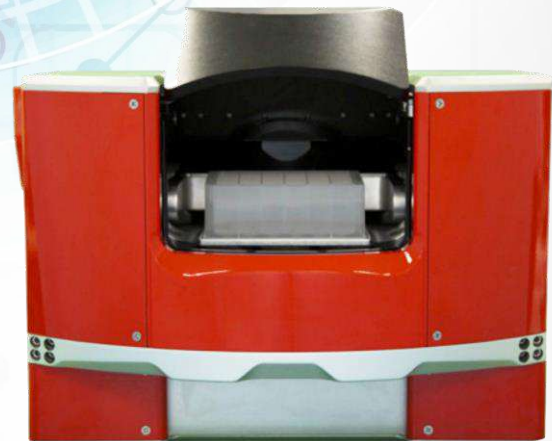


HiG Automated Centrifuge

The BioNex HiG centrifuge line (U.S. Patent 9,446,417) delivers the highest speed of any robot accessible centrifuge on the market today. Capable of rapid acceleration, the HiG line provides better pelletizing, cleaner supernatants, and faster filtration. In addition, the HiG 4 incorporates Peltier cooling to keep samples at or close to ambient temperature operating at maximum RCF and duty cycle.

The dual position rotor design accepts payloads up to 350 grams per bucket, allowing most microplate configurations to be processed easily, including deep well blocks and filter plate assemblies. The balance intolerance is more forgiving of payload weight differences, promoting continual, uninterrupted operation, and provides vibrational stability for other instruments operating on the same platform. The large door opening allows buckets to be accessed directly by a wide range of laboratory robots without an intermediate plate loader, reducing the number of steps required and overall cycle time.

The small footprint of the HiG centrifuges easily integrates with laboratory automation, and two units can be stacked to increase throughput. The HiG is completely powered by standard electrical service, eliminating the need for compressed air or other utilities.



Imbalance Tolerant while maintaining Vibrational Stability

## Key Features and Benefits

- High centrifugal force
- Imbalance tolerant
- The HiG 4 is equipped with Peltier cooling to keep samples at ambient
- Low vibration, even during imbalance maximum, does not interfere with nearby instruments
- Fast acceleration and deceleration, 20 seconds
- User programmable: Create spin profiles to optimize any application
- Compact: Small footprint, stackable
- Self-monitoring: Internal measurements validate instrument conditions

## Applications

- Pelletizing cells and cellular debris
- Sample preparation
- PCR assays
- DNA purification and sequencing
- Filtration assays
- Dispense bubble removal

## General Specifications

	HiG 3	HiG 4
<b>RCF Maximum</b>	5,000 g	4,000 g
<b>Imbalance Tolerance</b>	100 grams	50 grams
<b>Sample Temperature</b>	Depends on RCF, Spin Time, Duty Cycle	<5 °C above ambient
<b>Evaporation (Unsealed Labware)</b>	Depends on RCF, Spin Time, Duty Cycle	Minimal
<b>Payload per Bucket</b>	350 grams	350 grams
<b>Maximum Labware Height</b>	61 mm	61 mm
<b>Maximum Gripper Opening</b>	169 mm	169 mm
<b>Height</b>	292.1 mm [11.5 in]	317.5 mm [12.5 in]
<b>Width</b>	401.3 mm [15.8 in]	401.3 mm [15.8 in]
<b>Depth</b>	551.2 mm [21.7 in]	551.2 mm [21.7 in]
<b>Weight</b>	77.1 kg [170 lbs]	73.5 kg [162 lbs]
<b>Communication</b>	USB 2.0	USB 2.0
<b>Electrical</b>	100-240 VAC, 50/60 Hz, 15 A	100-240 VAC, 50/60 Hz, 15 A
<b>Active Cooling</b>	Fans only	Peltier + fans
<b>Enhanced Device Temp Monitoring</b>	No	Multiple Temp. Sensors on Chamber
<b>Speed Verification Window</b>	No	Yes