HiG3 Automated Centrifuge



Unpacking and Setup Guide



HiG3 Unpacking and Setup Guide

For HiG3 Automated Centrifuge - 14-04841



Customer Service: 888-524-0542 <u>support@bionexsolutions.com</u> <u>www.bionexsolutions.com</u>

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Tools Required

- Metric Allen Wrench Set
- No. 2 Phillips
 Screwdriver
- 10mm Open End Wrench

General Warnings

The icons on this page are used throughout the manual. They appear when information presented requires special attention. Please pay close attention to the instructions that accompany these Warnings and Cautions. Always follow the standard laboratory practices set forth by your facility and local regulatory agencies.

Always use the HiG3 Centrifuge as intended. Improper use of the system and/or its accessories may result in serious injury, damage to the system, and inaccurate results. Additionally, misuse could nullify the warranty



Warning: Identifies conditions or practices that could result in personal injury or loss of life

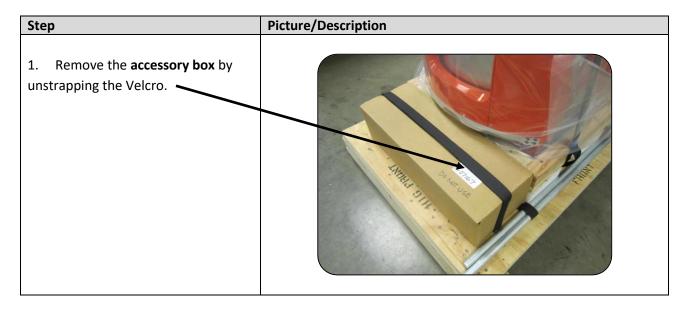


Pinch Hazard: Pinch hazard exists when the instrument is operating

Opening the Crate

Step	Picture/Description
Unclasp the 8x Twist Locks . (6 in the front and 2 in the rear).	Unfold handle and turn counterclockwise, then pull the clasp up and out.
2. Remove the front cover .	DEN-HIE PRINT
3. Pull the remainder of the crate away.	N/A

Unpacking the HiG3 Centrifuge



2. Ensure the following accessories are in the box:

Quantity	Part Description	Part Number	Image
1	USB Cable with Ferrite	12-02901	
1	E-STOP Button, labeled PASSED QC	11-00929	
1	Region appropriate Power Cable	11-00286 12-02235 11-00934 12-02234	US EU Switzerland Italy

Quantity	Part Description	Part Number	Image
2	Lower Side Fan Covers	11-00843	
2	Side Stops	12-01898	Remove blue tape prior to installing
4	M6 x 35 SHCS Screws, taped	99-00088	
9	M4 x 6 Phillips Flat Head	99-00994	
5	M4 x 12 Phillips Flat Head	99-00997	
9	M5 x 16 SHCS with Loctite	12-02271	
4	M6 x 25 SHCS Screws	99-00086	
4	Thick Black Washer	12-01880	

Quantity	Part Description	Part Number	Image
1	Bucket Brace	12-02900	12-02100 REVA
1	HiG3 Unpacking and Setup Guide (this document)	LIT-50050	N/A
1	CE Declaration of Conformity, HiG	LIT-50049	N/A
1	HiG3 USB drive, Containing HiG Integration Software and HiG3 Operators Manual	18-13757	N/A

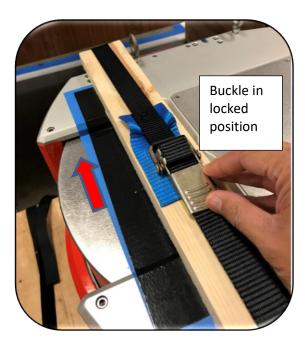
Contact support@bionexsolutions.com for any missing accessories.

Step	Picture/Description
3. Please do not discard the crate or any of the shipping hardware.	N/A
4. Remove the plastic sheet covering – 24" x 36" (P/N: 12-02933) covering the HiG3. Please do not discard this plastic sheet.	PLEASE READ INSTRUCTIONS PRIOR TO INSTALLING THIS INSTRUMENT

Step

Picture/Description

5. Flip both strap buckles in the direction of the **red arrow**. Expect some resistance from the buckles.



Flipping the buckle.

The unbuckled straps should look like the buckle in the image to the right.

DO NOT unthread the strap from the buckles. Leave threaded in case the unit needs to be re-packed.

The straps should now be loose enough to slide off the wooden blocks.



Step	Picture/Description
5. Continued	
6. Carefully slide the front strap off the wooden block and the front of the HiG3 – in the direction of the red arrow and rest the strap on the crate base.	
7. Slide the rear strap in the direction of the red arrow and rest it on the crate.	
8. Remove both wooden blocks.	N/A
Please do not discard these wooden blocks.	·

Step	Picture/Description
9. Remove the lifting rods (provided with the crate) from the crate base and insert them through the eye bolts.	
10. Move the HiG3 Centrifuge to its final mounting location and complete the unpacking and setup. At least two persons are required to lift this HiG3! Failure to follow these instructions may result in serious injury!	
DO NOT plug anything in at this time!!	
11. Remove the 4x Eye Bolts from the top of the HiG3 Centrifuge using a 10 mm Open End Wrench. Please retain these Eye Bolts .	
12. Install the included 4x M4 x 12 Phillips Flat Head Screws (P/N: 99- 00997) into the empty eye bolt holes.	

Step	Picture/Description
13. Remove the tape from the Rotary Shield.	Trotal of Decomposition
This tape can be discarded.	
14. Remove all the hard surface protective tape from around the perimeter of the HiG3.	
This tape can be discarded.	
15. Remove the front 2x Front Shipping Braces (P/N: 11-00904) from the HiG3 Centrifuge.	
There are 4x M6 x 16 SHCS Screws (P/N: 99-00082). These require a 5mm Allen wrench.	
Please retain braces and fasteners.	
16. Remove the 4x M5 x 25 SHCS Screws (P/N: 99-00061) from each of the side shipping braces (P/N: 11-00903).	
These require a 4mm Allen wrench. Do not discard these braces or the fasteners.	To a way to a second and a seco

Chan	Distance / Descriptions
Step	Picture/Description
17. Install the included 2x M6 x 35 SHCS, taped SHCS Screws (P/N: 99-00088) into each Side Shipping Brace. There are 2x pre-tapped M6 holes on each Side Shipping Brace. Please do not discard these braces or their fasteners.	
18. Use the M6 x 35 taped SHCS Screws to carefully pull out each Side Shipping Brace. There will be some resistance.	The same of the sa
19. Remove the blue tape covering the Side Stops (P/N: 12-01898) . Note the grease underneath the tape. Install the included side stops into each side of the HiG3 Centrifuge, using 4x M5 x 16 SHCS Screws with	
Loctite each. The notch in the Side Stop MUST be on top. WARNING: Installed side stops MUST be oriented correctly. Shipping braces MUST NOT be left in	

the HiG3!

Step

20. Install the included **lower side** fan covers (P/N: 11-00843) on each side of the HiG3 Centrifuge.

They require 4x M4 x 6 Phillips Flat Head screws (P/N: 99-00994) each.

These screws are also included.

Before proceeding, ensure the HiG3 is fastened securely in its final mounting position.

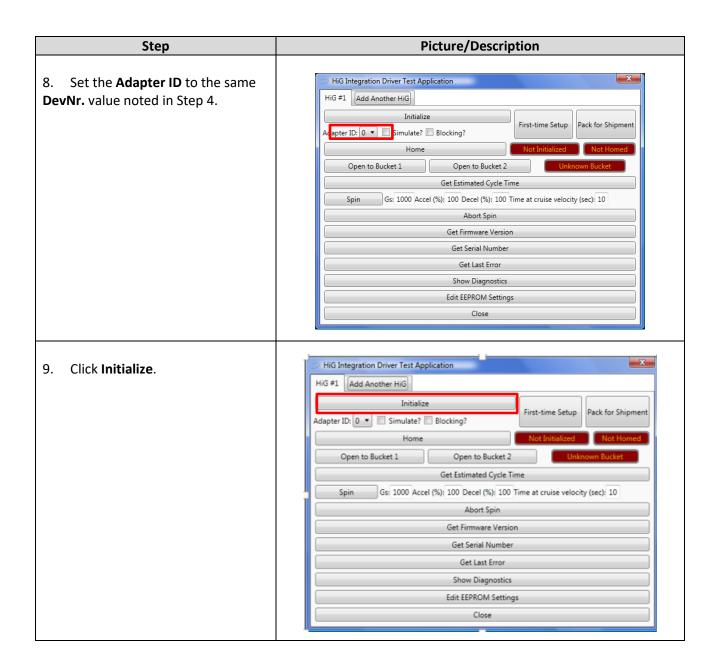
Picture/Description



HiG3 Centrifuge Setup

Step		Picture/Description
1. Install the HiG Integration Software from the USB drive onto the workstation that will be used to operate the HiG3 Centrifuge.	The installer (.msi) w NNNNN folder.	ill be in HiG Integration Software Version
 Connect the included USB cable with Ferrite (P/N: 12-02901) from the workstation to the HiG3 Centrifuge. DO NOT plug in the remaining cables at this time. 	N/A	
3. Open USB-CANmodul Control.	USB-CANm Control	A workstation desktop icon should automatically install during the installation process. Otherwise, it is located at: C:\Program Files (x86)\SYSTEC-electronic\USB-CANmodul Utility Disk\Bin\Usbcancp.exe The application must be Run as Administrator.

Picture/Description Step 4. Note the value in the **DevNr.** ■ USB-CANmodul Control - (C) SYS TEC electronic GmbH column, as it will be required in the Hardware Versions Debug Update next step. List of connected USB-CANmoduls on this computer... Device Type Firmware Version It is **0** in the example to the right. **NOTE**: The **Firmware Version** may vary. For multiple units on the same Show Firmware Update Info dialog (if firmware update disabled and firmware version is older) workstation, contact support@bionexsolutions.com. Change... ОК Cancel Apply Connect the **Power Cable** to the N/A rear of the HiG3 Centrifuge. 6. Connect the E-STOP (P/N: 11-00929) to the rear of the HiG3 Centrifuge. It is located at: 7. Open the **HiG Integration Test** App. C:\Program Files (x86)\BioNex\HiG\HiGIntegration TestApp.exe HIG Integration Or use the desktop shortcut if it is Jest available. Container rev. 8430 The revision number may vary.



Picture/Description Step HiG Integration Driver Test Application 10. Click First-time Setup. HiG #1 Add Another HiG First-time Setup Pack for Shipment WARNING: Pinch Hazard. Adapter ID: 0 ▼ ☐ Simulate? ☐ Blocking? Keep clothing, jewelry, hair, hands and fingers clear of the HiG3 rotary Open to Bucket 1 Open to Bucket 2 shield and door when it closes and Get Estimated Cycle Time during operation! Gs: 1000 Accel (%): 100 Decel (%): 100 Time at cruise velocity (sec): 10 Abort Spin Get Firmware Version Get Serial Number Get Last Error Show Diagnostics Edit EEPROM Settings - - X HiG #1 First-Time Setup 11. Follow the steps in the **First-time** Setup dialog box. Connect power cord, disable button, and USB cable, and click Next when ready Turn on power to HiG and click Next when ready Please do not discard the foam block Initializing... and the wooden stick. Homing shield... Slide the wooden stick under the hinged door to keep it open, and click Next when ready urn off power, unplug the AC cord, and click Next when ready move foam block from the bucket and click Next when ready nove wooden stick from the bucket and click Next when ready ove wooden stick propping the hinged door open and click Next when ready Connect power cord, turn on power, then click Next when ready Rehoming device... Done! You may now close this dialog. 12. Visually inspect the interior of the HiG3 Centrifuge through the now open door. The chamber should be empty and free of packing material and any other foreign material.

The HiG3 is now ready for operation!

Revision History

Rev.	ECO	Reason	Effective	Originator
А	2390	Initial release as LIT-50050. Added CE Certificate, renamed from MPI-00035b. See that document for previous revisions.	1/27/2022	R. Kiesling