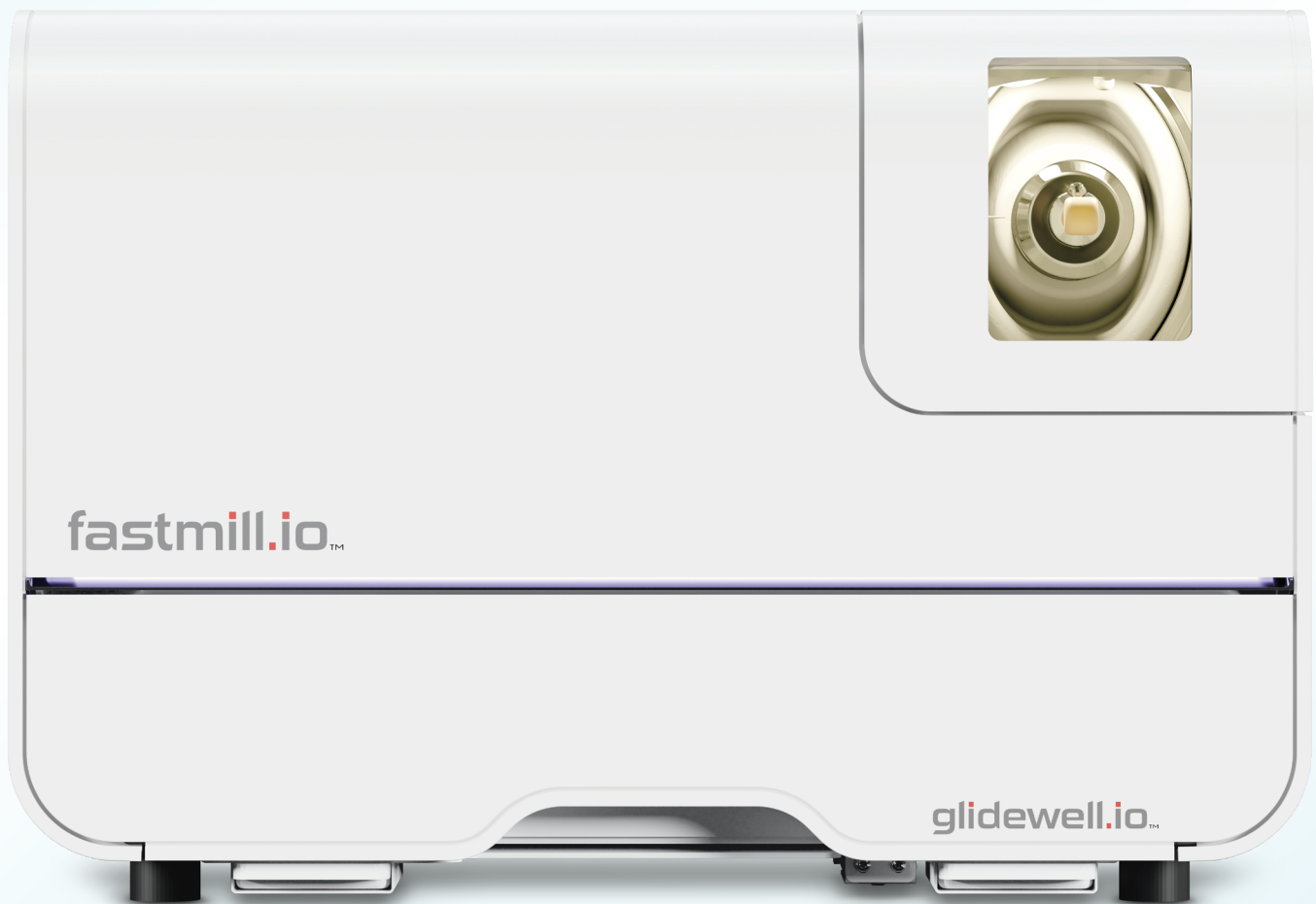


fastmill.io™

IN-OFFICE MILL

User Manual



LEARN MORE
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888-683-2063

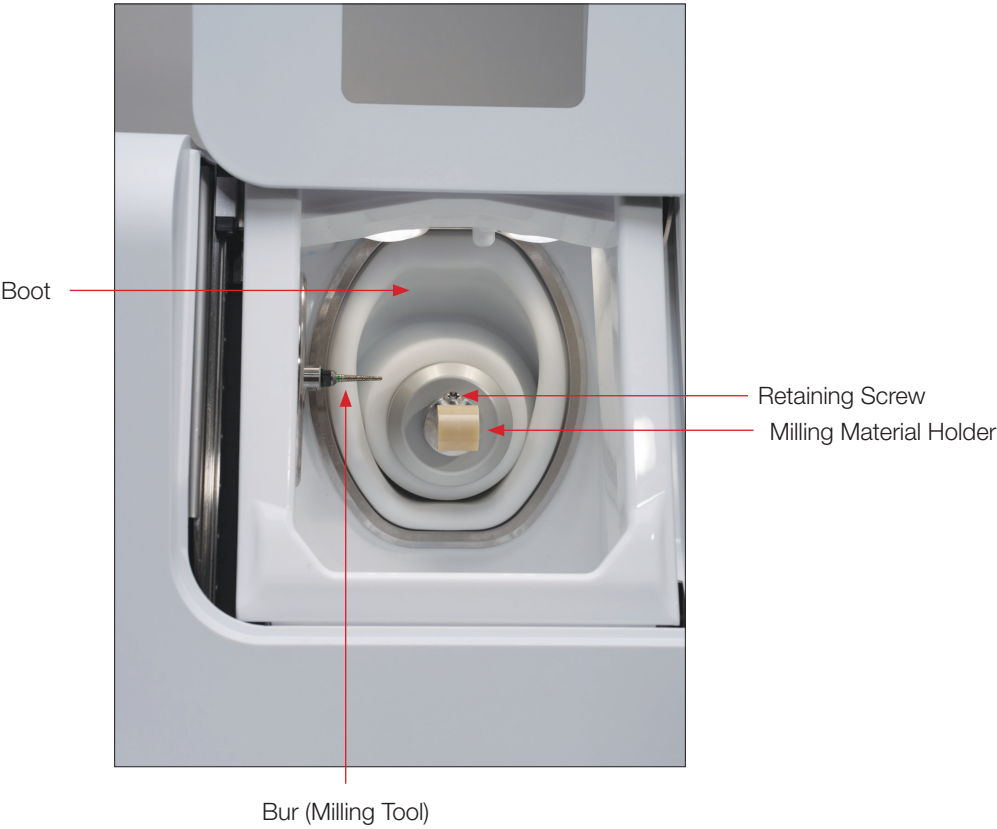
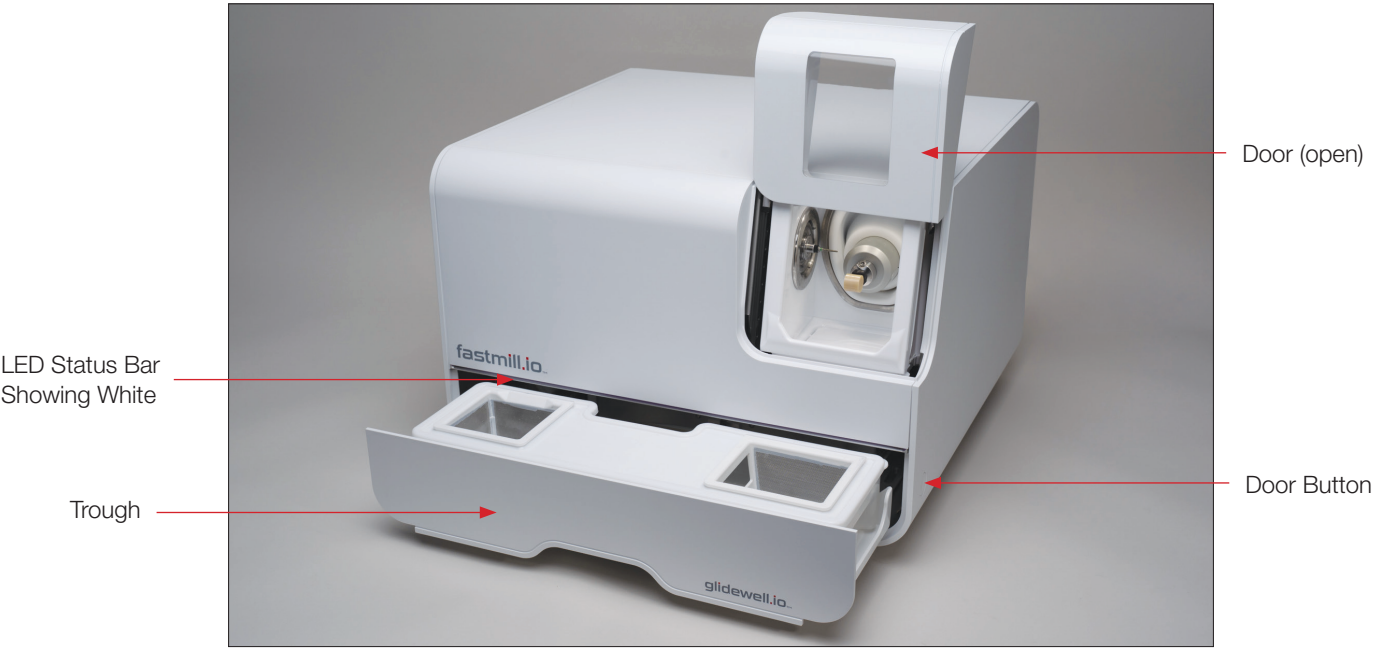
glidewell.io™
IN-OFFICE SOLUTION

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COMPONENTS

Getting To Know Your Mill



Rear Panel Components



Power Entry Module and Ethernet Port



INITIAL SET UP

1. Using two or more people, place the mill on a sturdy table, desk, or countertop capable of supporting 100 pounds. Make sure that the mill has at least a four-inch clearance on all sides.

To prevent injury, two or more people should lift and place the mill in its location.

2. Set up the computer components: monitor, keyboard, and mouse.
3. As a safety precaution, always connect the power cords for the mill, computer, and monitor to an easily accessible three-pronged grounded power outlet with surge protection.

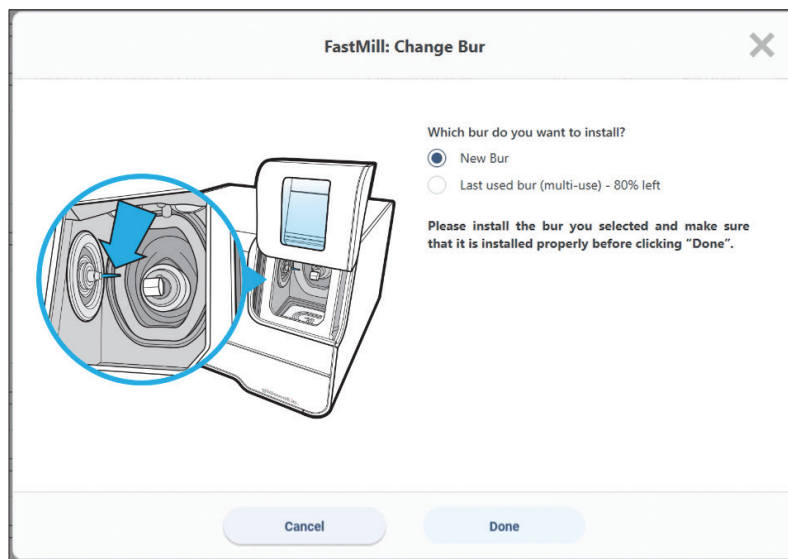
Power cord connections must remain accessible at all times to allow for quick disconnections during an emergency.

4. Connect the computer to the mill using the Ethernet cable to the office network via Ethernet connection or Wi-Fi.

Note: If using the Ethernet cable connection, connect the Ethernet cable with the pre-attached black component on the mill side, 2 inches from the port.

 **The component must remain attached while the mill is powered.**

5. Make the coolant using the directions in the Cleaning and Refilling the Coolant Trough section on page 16. (Coolant warning and hazard information are in the Routine Maintenance section of these instructions on page 15). Push the drawer into the mill until it clicks into the locked position with the trough door completely closed.
6. Turn on the computer and the mill. Glidewell Control Panel (GCP) will open on the computer screen.
7. Click “Tool Change.”



8. The mill door will automatically open. Remove the collet pin from the tool holder (collet), and **save the collet pin.**

 **Always keep a tool or collet pin in the tool holder at all times. Leaving the tool holder empty can damage the collet.**

9. Insert the tool needed for the initial case, depending on the material type, into the tool holder. Confirm that the tool is loaded by selecting “OK” on GCP, or by giving the button on the right side of the mill a quick press.
10. If ready to mill, continue to “Running the fastmill.io In-Office Unit” section. Leave the computer and mill on, even when not milling, so the scheduled spindle warm-up can occur after hours.

LED STATUS BAR

The LED status bar, located on the front of the mill, displays color-coded indicators that communicate the mill status. The colors indicate the following:

Color	LED Status Indications
Solid white	Ready state or any sequence outside running job
Low brightness white	Unhomed or homed
Breathing white	Sleep mode
White fading to dark (Off)	PLC shut down (must power off mill at the back switch)
Directional white (light moving towards the button side of the mill under the door)	Loading block or loading bur
Blue/white	Job progress (blue indicates completed amount and white indicates incomplete amount) 15% CompleteWhite Light
Blue	Change coolant
Wavy blue	Trough missing
Blinking blue	AP mode
Blinking blue (blue % of milling complete in status bar)	Pause milling process
Green	Job complete (door open waiting for material to be removed)
Yellow	Warning/error
Yellow under the door	Door closing warning
White movement (white light moving back and forth)	Mill waiting for NC file
Orange	Failed internet connection or failed Wi-Fi pairing



USING THE FASTMILL.IO™ IN-OFFICE UNIT BUTTON



The right side of the mill features a multifunctional button used to activate functions of the mill. Its function depends on the mill’s current state. The button actuations in each scenario are outlined below.

Button Function	How To Press The Button	LED Response
Wake mill from sleep mode	Quick press	Goes from breathing white to solid white
Shutdown sequence	Press and hold for 6 – 9 seconds	White fades to dark (<i>off</i>)
Block installed/ bur installed	Press and hold for 2 – 5 seconds	Goes from directional white to solid white
Activate AP mode	Press and hold for 10 – 15 seconds	Blinking blue
Material removed/close door	Quick press	Goes from green to yellow under the door
Open/close door when mill is idle/ ready	Quick press	Full white bar or yellow under the door

RUNNING THE FASTMILL.IO™ IN-OFFICE UNIT

Loading A Patient Case

1. Turn on the computer and the mill. GCP will open on the computer screen.
2. The mill will go through a self-check sequence to verify that the motion control and other systems are working correctly.
3. After the fastdesign.io™ software sends the patient cases to GCP, the cases will download onto the computer screen. For CAD/CAM design details, see fastdesign.io instructions for use at glidewelldental.com. Select a patient case and click the mill button icon to run the job.

Milling

3D Printing

All (4375)

New 2300

In Progress 5

Completed 1796

◀

1

▶

of 88

Q

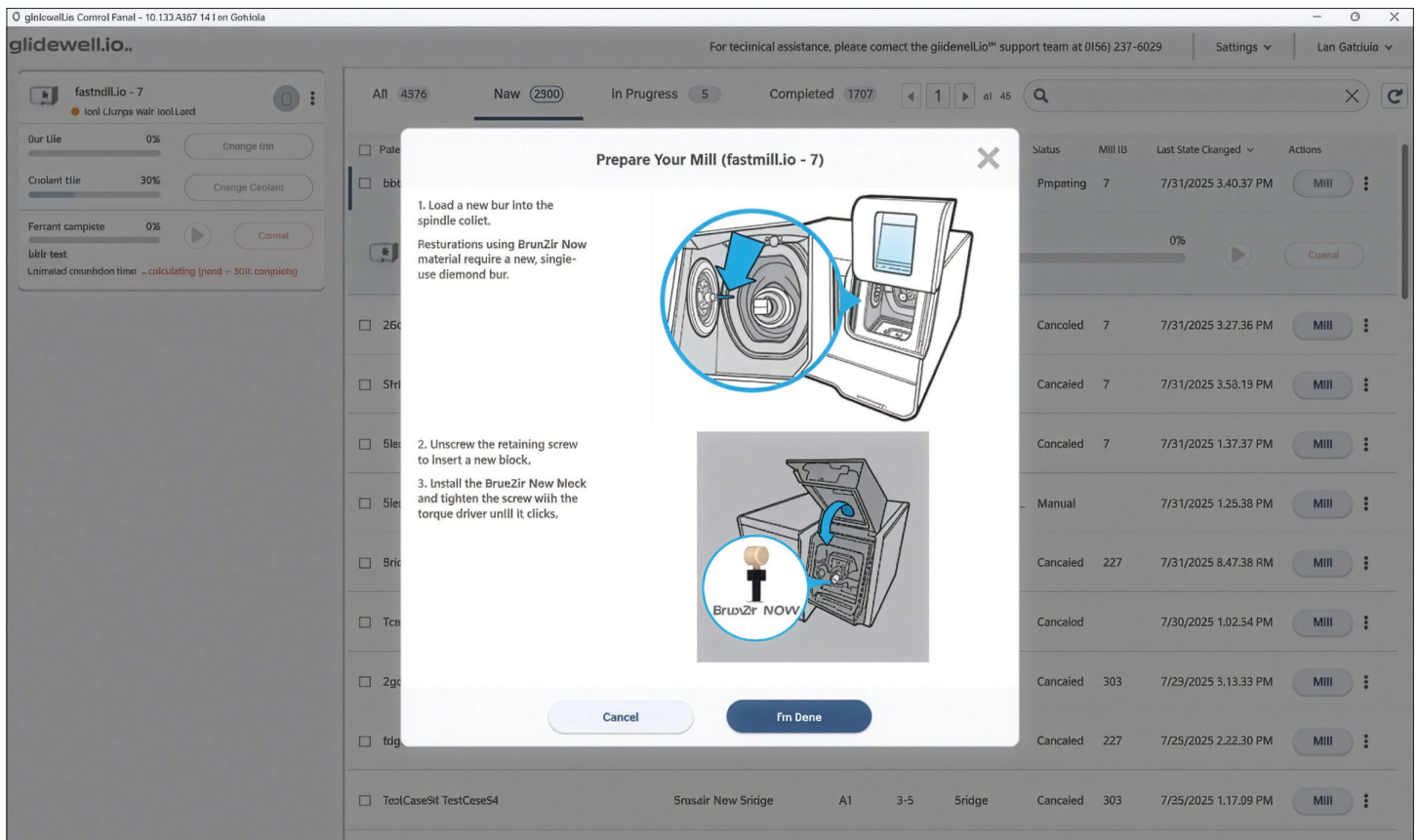
X

↺

☐ Patient Name	Material	Shade	Tooth Id	Type	Status	Mill ID	Last State Changed ▾	Actions
☐ 2GCPtst 0004	BruxZir Esthetic NOW	A1	9	Full crown	Canceled	7	7/31/2025 3:21:16 PM	Mill ⋮
☐ bbb test	BruxZir Now	A1	30	Full crown	Canceled	7	7/31/2025 3:16:35 PM	Mill ⋮
☐ SNTTESTING LG000	BioTemps NOW	A1	14	Full crown	Canceled	7	7/31/2025 2:50:19 PM	Mill ⋮
☐ file: FM2-ImproperNC_TEST.nc	BIOTEMPS NOW	A1	7	Bridge	Canceled	7	7/31/2025 1:37:47 PM	Mill ⋮
☐ file: TESTDIS00 BIOTEMPS NOW_18_2025-07-20_065419.nc	BIOTEMPS NOW	A1	7	Inlay posterior	Milled	7	7/31/2025 1:31:50 PM	Mill ⋮
☐ file: OK001 BIOTEMPS NOW_18_2025-07-28_065419_OKNOW.nc	BIOTEMPS NOW	A1	7	Inlay posterior	Manual		7/31/2025 1:28:28 PM	Mill ⋮
☐ Bridge 3-55z	BioTemp Now Bridge	C2	3-5	Bridge	Canceled	227	7/31/2025 8:47:38 AM	Mill ⋮
☐ 2GCPtst 0005	CAMouflage NOW	A1 HT	5	Full crown	Error	1234567	7/31/2025 6:41:02 AM	Mill ⋮
☐ 5C10S TEST	CAMouflage NOW	A1 HT	30	Full crown	Setting up		7/30/2025 4:29:17 PM	⋮
☐ TestDass001 TestDeas001	BruxZir Now	A1	19	Full crown	Canceled		7/30/2025 1:02:54 PM	Mill ⋮
☐ file: BRUXZIR NOW SRC_14_2025-07-28_062525.nc	BRUXZIR NOW SRC	A1	7	Screw retained crown posterior	Milled		7/30/2025 11:50:18 AM	Mill ⋮

Loading Milling Material

4. At the material prompt, load the material selected for the case.
 - a. The mill door will open automatically, and the LED status bar will display a directional white light moving to the right, visible under the door.
 - b. Insert the material block mandrel into the material holder with the dimple in the mandrel facing up.
- ⚠️ **To prevent tears or punctures in the area behind the material holder (boot), do not push the torque driver into the boot when tightening/loosening the retaining screw.**
5. Use the torque driver to tighten the retaining screw until the handle clicks. Do not overtighten the retaining screw.
6. Confirm the material is loaded by briefly pressing the button (2-5 seconds) on the right-side panel of the mill once or select “I’m done” on the GCP screen.



Note: If prompted to change the tool after the collet pin was replaced with a new tool, select “No” and go to Step 9 in this section.

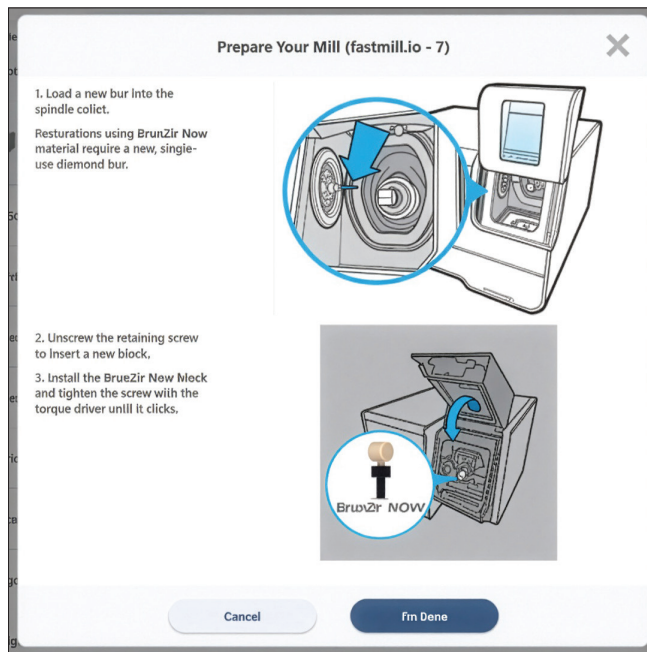
7. The material holder will move back to allow for tool removal. The LED status bar will display a directional white light moving to the right, visible under the door.
8. Insert the new tool for the selected material into the tool holder (collet). Confirm that the tool is loaded by briefly pressing the button (2-5 seconds) on the right-side panel of the mill once or select "I'm done" on the GCP screen. The LED status bar will turn white, the door will close, and the milling process will begin.

⚠ To prevent injury, keep hands out of the milling chamber while the spindle is running.

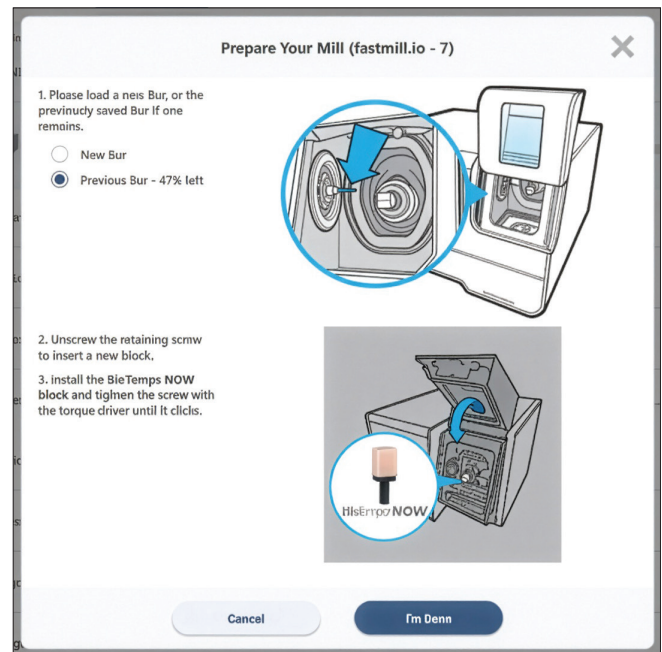
NOTE: BruxZir NOW burs are for single-use milling. The mill will prompt you to replace the bur whenever the selected milling material is BruxZir NOW.

9. If the coolant has expired, GCP will prompt a coolant change, and the LED status bar will show blue (See Routine Maintenance and operations section).

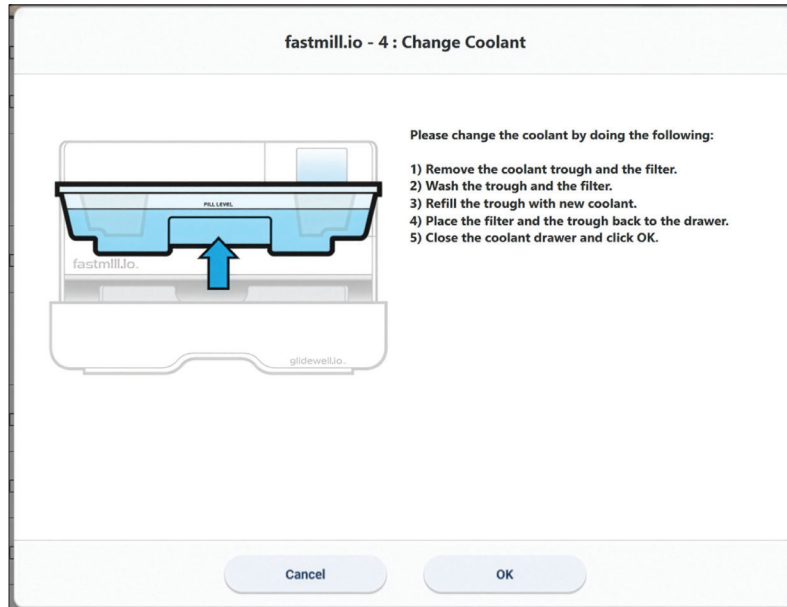
BruxZir NOW Tool Prompt



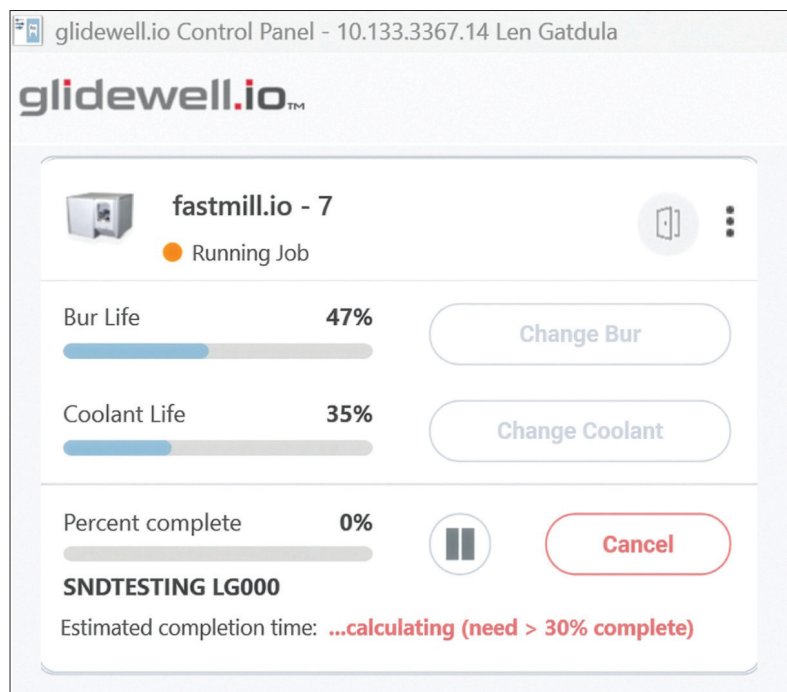
Composite Tool Prompt



10. View progress and estimated completion time under the Device Card of the assigned mill in GCP. The LED status bar also displays progress: It will be white until milling starts, and the blue portion will increase to indicate the amount of milling completed.



11. Pause at any time by clicking the pause button under the Device Card of the active mill in GCP.



12. After pausing, press the “Mill” button on the Device Card to continue milling, or select the “Cancel” button to cancel the job. If “Cancel” is selected, confirm job cancellation by pressing “Cancel job” after the prompt in GCP.

- 10.122.3357.14 Lin Galoluis

For technical assistance, please contact the glidewell.io™ support team at (856) 237-6929 | Settings ▾

7

47%

39%

0%

...calculating in end > 39% complete

All 4576 New 2300 In Progress 5 Completed 1797 1 of 45

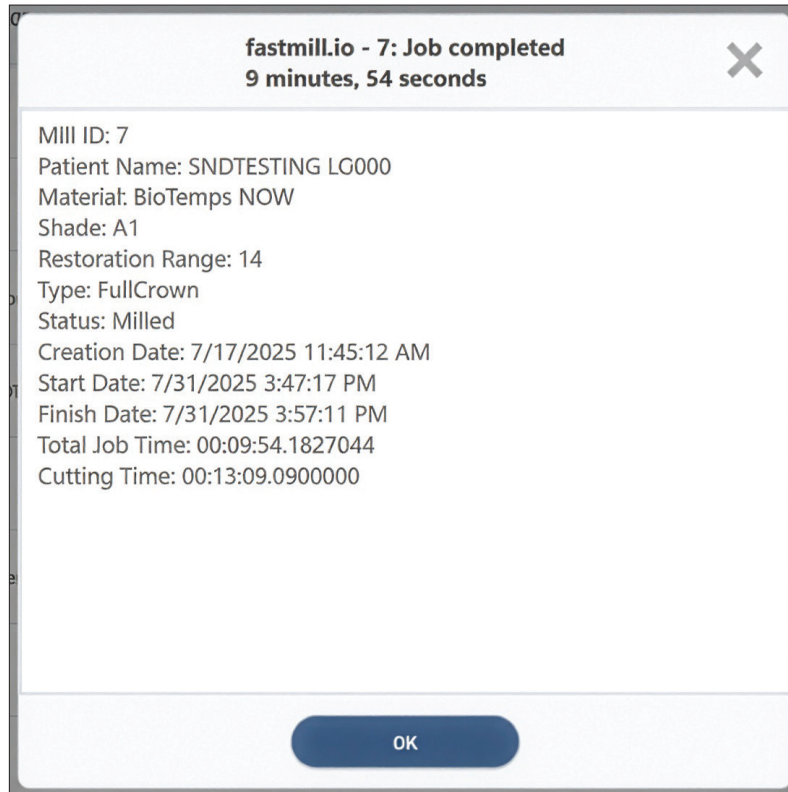
☐	Patient Name	Matedol	Shale	Tooth Id	Type	Status	Mill ID	Last State Changed ▾
☐	SNOTESTING LG000	BioTemps NOW	A1	14	Full crown	Milling	7	7/31/2025 3:43:05 PM
 fastiniLlo - 7 Farcent Complete 0% Estimated Completion Time at ...calculating (need > 30% complete) Pause								
☐	bbb test	BruxZir Now	A1	30	Full crown	Canceled	7	7/31/2025 3:42:58 PM
☐	20CFE1 0004	BruxZir Esthetic NOW	A1	9	Full crown	Canceled	7	7/31/2025 3:27:36 PM
☐	file: FM2-ImproperNC_TEST.nc	BIOTEMPS NOW	A1	7	Bridge	Canceled	7	7/31/2025 1:37:47 PM
☐	file: OI001 BIOTEMPS NOW 18.2025-07-20_065410....	BIOTEMPS NOW	A1	7	Inlay portert...	Manual		7/31/2025 1:20:28 PM
☐	Bridge 3-5Uz	BioTemp Now Bridge	C2	3-5	Bridge	Canceled	227	7/31/2025 3:47:38 AM
☐	TestDeas001 TestDaas001	BruxZir Now	A1	19	Full crown	Canceled		7/30/2025 1:02:54 PM
☐	2gcpTST 0001	Obsidian	A1	1	Inlay	Canceled	303	7/29/2025 5:13:33 PM
☐	fdgdI ddd	BioTemps NOW	0M1	25	Full crown	Canceled	227	7/28/2025 2:33:30 PM
☐	TestCese04 TestCaseU6	BruxZir Now Bridge	A1	3-5	Bridge	Canceled	303	7/28/2025 1:17:09 PM

glidewell.io Control Panel - Cancel Job

Are you sure you want to cancel current Job?

Report cancellation reason

13. When the job is complete, the prompt will display “Job Completed” and the LED status bar will turn green. The door will automatically open unless the GCP has been set to not open the door at the completion of the job.



14. Use the torque driver to loosen the retaining screw holding the material. Remove the restoration. Press the mill button or the button on the right side panel of the mill to close the door.
15. Finish the restoration according to the instructions for the material.
16. At the end of the day, confirm that a tool or the collet pin is in the tool holder (collet). The mill enters sleep mode after 20 minutes and will automatically wake up at the scheduled time to warm up the spindle for about 15 minutes.

 **Keep a tool or collet pin in the tool holder at all times. Leaving the spindle empty can damage the collet.**

GENERAL OPERATIONS

Loading Material

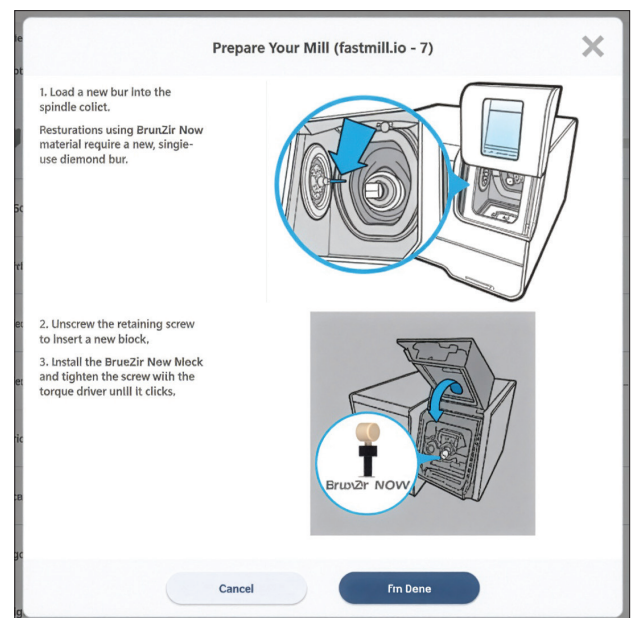
1. After pressing the mill button on the GCP, the mill will prompt you to confirm that the correct material is loaded for the particular case and the door will open unless the GCP has been set to not open the door.
2. Insert the material into the material holder with the dimple facing up.



 **To prevent tears or punctures in the areas behind the material holder (boot), do not push the torque driver into the boot when tightening/loosening the retaining screw.**

3. Tighten the retaining screw with the provided torque until the handle clicks. DO NOT overtighten the retaining screw.
4. Confirm that the correct material is loaded by pressing the “I’m done” button.

NOTE: BruxZir NOW burs are for single-use milling.
The mill will prompt you to change out the
bur whenever the selected milling material is
BruxZir NOW.



Replacing The Tool

 **Keep a tool or collet pin in the tool holder at all times. Leaving the tool holder empty can damage the collet.**

1. Click “Change Tool” or if starting a program click on the mill button.
2. The mill door will open automatically unless the GCP has been set to not open the door. Remove the current tool.
3. Insert the new tool for the selected material into the tool holder (collet). Confirm that the tool is loaded in GCP or press the button on the right-side panel of the mill for 2-5 seconds.



4. The mill door will close.

NOTE: The milling process will not begin if the door is open.

Materials	Tool Replacement Schedule
Sintered Zirconia (BruxZir® NOW, BruxZir® Esthetic NOW)	After 1 Restoration (BruxZir NOW is shipped with a green-striped BruxZir NOW tool for each block)
Hybrid Abutment Crown (BruxZir® NOW SRC)	After 1 Restoration
Fully Crystallized Glass Ceramic (Obsidian® NOW)	After 1 Restoration
Glass Ceramics (Obsidian®)	After 5 Restorations
Polymer, Composite or Hybrid (CAMouflage® NOW, BioTemps® NOW)	After 5 Restorations

NOTE: GCP software will prompt tool changes.

ROUTINE MAINTENANCE

Coolant

Glidewell Dental Mill Coolant Concentrate is a synthetic machining coolant concentrate that must be diluted before use. Wear safety glasses and gloves while handling as the concentrate is an eye and skin irritant. If coolant comes into contact with eyes or skin, rinse the affected area with large quantities of water. The coolant is not an inhalation hazard under normal conditions, but if respiratory irritation does occur, move to a well-ventilated environment. Ingestion may cause stomachache, nausea, diarrhea, vomiting, and headache. If ingestion occurs, dilute stomach contents with water and seek medical attention. Do not induce vomiting.

Contact Customer Technical Support (CTS) at **866-237-6929** or **fastsupport@glidewell.com** for SDS information.

Coolant Concentrate Hazard And Warning Information



Eye and skin irritant

Hazard Identification And First Aid Measures

- A. **EYES** – Contact with eyes may cause moderate eye irritation. Rinse eyes with large quantities of water if eyes become irritated.
- B. **SKIN** – Prolonged or repeated exposure to the skin may cause irritation. Rinse skin with large quantities of water if skin becomes irritated.
- C. **INHALATION** – The coolant is not an inhalation hazard under normal conditions. If respiratory irritation does occur, move the person into a well-ventilated environment or to fresh air.
- D. **INGESTION** – Ingestion may cause stomachache, nausea, diarrhea, vomiting, and headaches. If ingestion occurs, dilute stomach contents with water and seek medical attention. Do not induce vomiting.

Preparing Coolant

Make 1500 mL of coolant in the Trough. With eye protection and gloves on, add 90 mL (3 – 30 mL pours) from the bottle of Glidewell Dental Coolant Concentrate. Then fill with distilled or reverse osmosis water to the Fill Level line on the front of the Trough.



Cleaning And Refilling The Coolant Trough

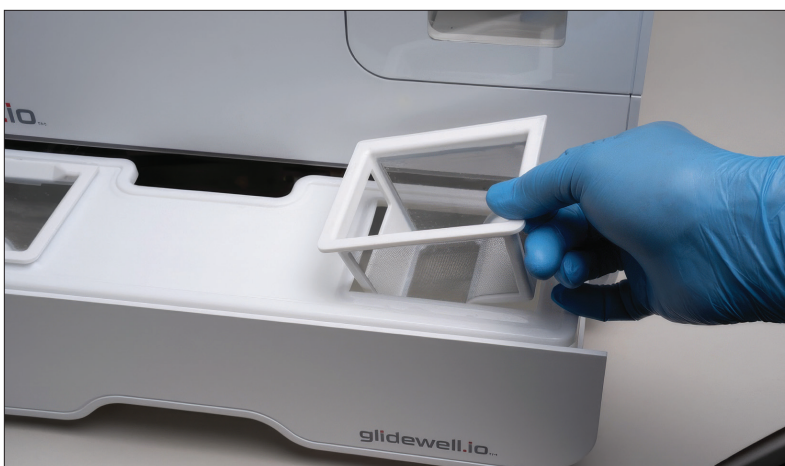
1. For frequent coolant changes, click “Change Coolant” on the control panel.

 **Sharp material particles may be present in the basin, filters, or trough. Wear safety glasses and gloves for protection.**

2. Open the trough drawer by pushing the drawer inward to release the latch. Carefully pull the drawer out.
3. Remove and rinse the filter inserts and trough cover.
4. Thoroughly rinse the trough to remove all debris.



5. Make the coolant within the trough:
 - A. Wear personal protective equipment (PPE), including eye protection and gloves.
 - B. Add 3 – 30 mL of the Glidewell Dental Coolant Concentrate from the bottle into the trough.
 - C. Add distilled or reverse osmosis water to the Fill Level line on the trough.
-  **Do not place the trough on top of the mill when refilling.**
6. After filling it, replace the trough cover and install the filter inserts. The inserts will only fit in one way.
 7. Place the trough into the trough drawer.
 8. Slide the trough drawer into the mill until it clicks and locks with the trough door fully closed.



CLEANING THE FASTMILL.IO™ IN-OFFICE UNIT

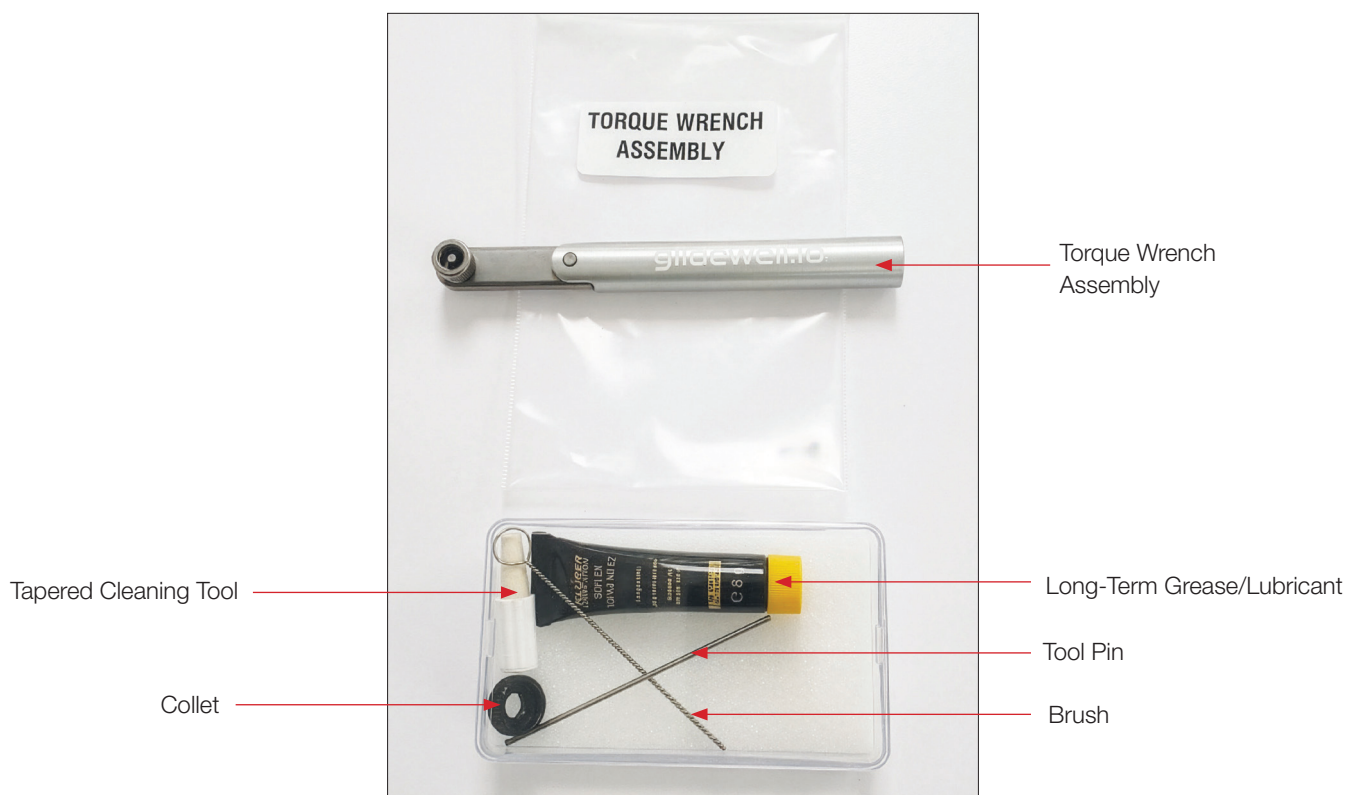
Cleaning Schedule:

Clean the mill on a weekly basis.

1. Clean external surfaces with a clean lint-free cloth or paper towel, and water.
2. Clean internal surfaces of the machining chamber.
 - A. **Door** – Wipe down the inside of the door with a clean lint-free cloth or paper towel, and water.
 - B. **Basin** – Wearing gloves, carefully remove glass fragments from the drain cover. Rinse the basin thoroughly.
 - C. **Milling area** – Use a spray bottle of water and a toothbrush to clean all surfaces and prevent excess buildup. Wipe using water and a clean lint-free cloth or paper towel.

Maintaining The Spindle

Using the Spindle Maintenance Kit, clean the spindle collet monthly or when the spindle collet is stuck in the shaft.



1. Click on the 3 dots next to the mill name at the top left corner of GCP. Select “Schedule Warmup” and click on “Run Spindle Maintenance.” The door will open, and the collet will release.
2. Place torque wrench onto the hex at the end of the collet. Loosen the collet from the shaft.

 **Only use the supplied torque wrench to perform spindle maintenance to avoid damage.**



3. Once loosened, remove the tool and proceed to remove the collet by hand.
4. If the tool is broken and inside the collet, remove the collet to access and remove the tool.
5. Wipe the collet surface clean with a lint-free cloth.
6. Insert the brush into the tool end of the collet. Brush the inside while turning the collet.



7. Brush the 3 slits on the outside of the collet.
8. Insert the taper cleaning tool into the tapered spindle shaft and gently rotate. If the taper cleaning tool is not available, use a clean and dry lint-free cloth instead.

 **To prevent skin irritation, wear gloves during cleaning and lubricant application.**
Contact fastsupport@glidewell.com to obtain the Safety Data Sheet (SDS).



9. Apply a light thin layer of lubricant to the outside of the collet.

 **Do not add an excessive amount of lubricant to the collet to avoid damage to the spindle.**



10. Reinstall the collet into the spindle shaft by hand. Gently twist the collet until the collet stops turning in the spindle shaft.



11. Place torque wrench onto the hex at the end of the collet and tighten until the torque wrench bends (snaps) to about 90°. Remove and straighten the torque wrench.

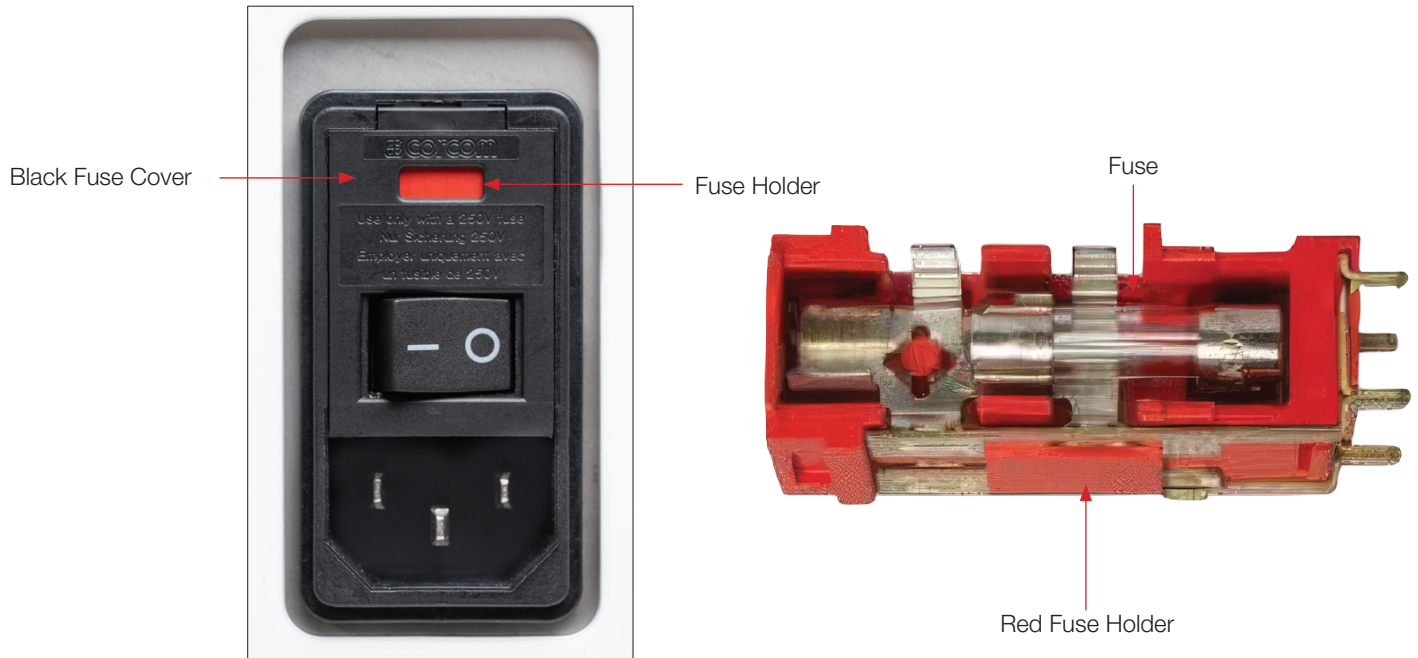
 **Do not over-tighten the collet into the spindle shaft during reinstallation of the collet.**



12. After tightening the collet, load a tool. When prompted with “Please load a new Grinding Tool,” click “OK.” The collet will lock onto the tool, the door will close automatically, and the mill will run a tool touch.
13. When the tool touch is completed, the message “Spindle Maintenance is Complete” will appear. Click “OK” to continue. The mill is now ready.

Replacing The Fuse

1. Disconnect the power cord located on the back of the mill.
2. Pull back the fuse cover on the back of the mill, near the red rectangle.
3. Use a screwdriver to hook and twist the top or bottom of the fuse holder. Twist to remove.
 **Before removing the broken fuse, note its position in the fuse holder.**
4. Use a small screwdriver to hook the metal end of the fuse. Remove the fuse from the red fuse holder.
5. Insert the new fuse in the same position that the broken fuse was in.
6. Place the red fuse holder back into its original position at the back of the mill.
7. Close the black fuse cover.



Repair

Each milling system has been manufactured and calibrated to specifications. There are no internal components that are serviceable or repairable by the customer. Please do not attempt to disassemble any part of the system. Any such action may void the product warranty. In the event of a product failure, please call your Technical Support Specialist.

SAFETY NOTICE

 **Warning:** If this device is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

ENVIRONMENTAL CONDITIONS AND INSTALLATION CLASSIFICATION

Use Environment	Indoor use only
Maximum Operating Altitude	Up to 2000 m
Main Supply Voltage Fluctuation	± 10% of nominal voltage
Overvoltage Category	Category II
Pollution Degree	Pollution Degree 2

TROUBLESHOOTING GUIDE

Symptom	Possible Cause	Resolution
Unable to turn on unit	Power switch at the AC inlet is off (O)	Switch on AC power at the rear panel
	AC cord not inserted correctly at rear panel or outlet	Reinsert power cords and check for power at the AC outlet
	Blown fuse at AC supply	Replace the AC fuse with the correct fuse (see System Specifications)
Very high-pitched whine coming from spindle, especially when tool is not in contact with material	Spindle bearings worn	Contact Customer Technical Support at 866-237-6929 or fastsupport@glidewell.com
Repeated tool breakage and/or broken blocks	Coolant system not pumping correct amount or nozzle alignment is incorrect	Verify coolant stream is adequate and nozzles are aligned by contacting Customer Technical Support at 866-237-6929 or fastsupport@glidewell.com
Failure of machine during initialization routine; display of error	Motion control failure	Turn the mill off for about 10 seconds and then back on. If problem persists, contact Customer Technical Support at 866-237-6929 or fastsupport@glidewell.com
Restorations are consistently out of occlusion or have ledges on the sides	Mill is out of calibration	Contact Customer Technical Support at 866-237-6929 or fastsupport@glidewell.com

SYMBOLS GLOSSARY

Symbol	Reference No. EN ISO 15233-1, Section	Title – Symbol Description
	Sec. 5.1.7	Serial Number – Indicates the manufacturer's serial number so that the medical device can be identified.
	Sec. 5.1.6	Catalogue Number – Indicates the manufacturer's catalogue number so that the medical device can be identified.
	Sec. 5.1.1	Manufacturer – Indicates the medical device manufacturer.
	Sec. 5.4.3	Consult Instructions For Use – Indicates the need for user to consult the instructions for use.
	Sec. 5.4.4	Caution – Indicates the user needs to consult the instructions for use for important cautionary information such as warnings and precautions.
Symbol	Reference Canadian and US Certification Mark	Title – Symbol Description
	N/A	Electrical Testing Laboratories (ETL) Certified.
Symbol	Reference No. 47 CFR Part 15	Title – Symbol Description
	N/A	FCC Mark – Indicates that the electromagnetic radiation from the device is below the limits specified by the Federal Communications Commission and the manufacturer has followed the requirements of the Supplier's Declaration of Conformity authorization procedures.
Symbol	Reference No. BS EN 50419:2006	Title – Symbol Description
	Figure 1 Section 4.2	Separate collection for waste of electrical and electronic equipment. Do not dispose of battery in municipal waste. The symbol indicates separate collection for battery is required.
Symbol	Reference No. 29 CFR 1910.1200 – Appendix C, Section	Title – Symbol Description
	Sec. C.2.3.2, Figure C.1 – Hazard Symbols and Classes	Irritant – Indicates product contact/inhalation will irritate eyes, skin, or respiratory tract.

SYSTEM SPECIFICATIONS

Power Input Voltage	100 – 240 VAC
Max Power	350 – 450W
Power Input Frequency	50 – 60Hz
Power Input Fuse	6.3A 250V
Operating Temperature Range	18 °C to 32 °C (Prior to operation, stabilize for 1 hour at operating temperature after cold storage.)
Storage Temperature Range	-18 °C to 50 °C
Operating and Storage Humidity Range	0% to 85% (Non-Condensing Relative Humidity)
Water Ingress	Non-immersion with exception of machining area, damp wipe only on the outside
Weight	≤ 85 lbs.
Dimensions (W,D)	18 in x 18 in

fastmill.io™

866-237-6929

fastsupport@glidewell.com

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