ALLY® ARMOUR
G264-HA LAMINATOR

OPERATING MANUAL

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INTRODUCTION:

A TRUSTED PARTNER FOR BUILDING YOUR BUSINESS.

Welcome to the **Ally Armour G264-HA Laminator**—designed as a plug and play solution for shops that need more. Whether you're laminating, mounting, or encapsulating large-format prints, this heavy-duty industrial machine delivers more speed, more control, and more capability.

At Grimco, **we're more than just a supplier—we're your partner in success**—and it all starts with the right equipment. Grimco's Newest Exclusive brand, Ally, provides a foundation you can build on with the Armour G264-HA Laminator, helping you expand your capabilities, take on more projects, and deliver superior results to your customers.

MANUAL DESCRIPTION:

This manual is intended for the user/operator of the Ally Armour G264-HA Laminator. Please read this manual carefully before uncrating the machine. This manual contains important information for the correct installation, operation and maintenance of the machine, including safety features to be aware of on the machine. If you have any questions or need further details on specific aspects related to this machine, please do not hesitate to reach out to a Grimco Equipment Specialist through our Live Chat or Equipment & Software ticketing system.

Have a Technical Support Request?
Scan the QR code below to start a ticket with our Equipment & Software support team.

1. PRODUCT OVERVIEW

1.1 MACHINE DESCRIPTION:

Your business depends on equipment that is **reliable, efficient, and built to last**—and that's exactly what the **Ally Armour G264-HA Laminator** delivers. This **fully automatic heat-assist laminator** is engineered for daily use in busy print shops. From a **plug and play setup** to **adjustable edge trimming and smart system controls,** this industrial-grade machine simplifies your lamination process making lamination, mounting, and encapsulation easier and more efficient.

Built for **precision and productivity,** the Armour G264-HA features a **pneumatic up-and-down roller** and reaches speeds of up to **40 feet per minute,** keeping up with your shop's demands. With an **adjustable vertical cutting system,** the G264-HA trims excess material as you laminate, saving time and ensuring clean, professional results. Its **smart entry system** allows for easy monitoring of speed, temperature, and lamination history, with an additional rear panel control for quick speed adjustments, giving you complete control over every job.

Durability is at the core of every Ally product. This laminator features **heavy-duty, glue-free silicon rollers** for smooth, long-term performance, an **anti-static string** to minimize static buildup, and **upgraded shaft caps and holders** for fast, hassle-free media loading.

1.2 SPECIFICATIONS:

SPECS	ARMOUR G164-HA
Setup	Plug and Play
Heat/Cold	Top Heat Assist
Heating Element	Install Required
Max Lam Width	64 in
Max Lam Thickness	1.1 in
Max Lam Speed	40 fpm
Max Temp	140°F
Control Panels	Front and Back
Entry Level Smart System	Temp, Speed, Lam Records
Speed Control	Variable controlled from Front and Back
Up and Down	Pneumatic *Air compressor included*
Roller Diameter	128 mm (5.04 in) Silicon
Roll Shafts	6
Tension Adjustment	Double Knobs
Foot Pedal	Single Foot Pedal Attachment
Trimmer Holder	2 Single (Left/Right), 1 Double Central Blade
Power	1600 W
Net Weight	573 lbs
Shipping Dimensions (W x D x H)	2260 x 800 x 1650 mm (89 x 31.5 x 65 in)
Warranty Parts	1 Year
Warranty Labor	1 Year

Close-up of Front Panel
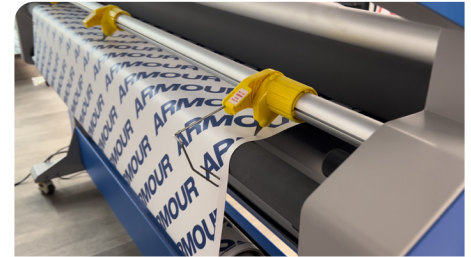
Adjustable Vertical Cutting System
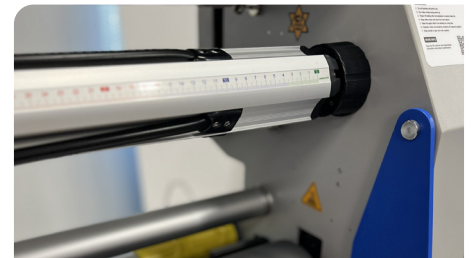
Close-up of Roll Shaft

1.3 UNIQUE FEATURES & BENEFITS:

- **Plug & Play Setup:** The strong integrated frame is designed for quick and easy installation—no special tools, no wasted time. With a quick set up, just plug it in and get to work.

- **Smart Entry System (Front & Rear Panels):** Get complete control from the front panel with real-time display of temperature, speed, and lamination stats. Easily monitor job history for up to 30 days with built-in data tracking—ideal for improving workflow and consistency. The front panel also displays date and time and features an "Up and Down" button and a roller direction button to change the direction in which the roller moves. The rear panel offers speed control and has a knob to quickly make adjustments to the speed as needed.

- **Upgraded Shaft Caps & Auto-Locking Roll Shafts:** Designed for quick, secure media loading. Interchangeable roll shafts and enhanced holders make switching between jobs faster and more efficient.

- **Integrated Vertical Cutting System:** Eliminate time-consuming post-trimming. The built-in safety cutters use two single-edge blades (left and right) and a double central blade to trim as you laminate—saving you time and reducing waste.

- **Durable, High-Performance Blades:** Made from tungsten steel and built to last, these blades cut through most common signage media and boast a lifetime exceeding 15,000 meters of use.

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1.4 WHAT'S INCLUDED IN THE CRATE:

If any items appear missing or damaged, contact your Grimco representative immediately before proceeding with installation.

MACHINE COMPONENTS		
ITEM	DETAILS	QTY
1	Body	1 unit
2	Roll Shafts	6 pcs
3	Compressor	1 unit
4	Foot Pedal	1 pc
5	Heating Element (Fragile)	3 pcs
6	Oil-Water Separator	1 pc

ACCESSORY COMPONENTS		
ITEM	DETAILS	QTY
1	Stand Screws	1 bag
2	Fuse	2 pcs
3	Friction Mats/ Graphite	2 pcs
4	Ceramic Pipe	6 sets
5	Hex Key Wrench	1 set
6	Cutter	1 pc
7	Roll Clips	1 set

Prefer to watch and learn?

Scan the QR code below to watch our step-by-step How-To videos, featuring one of Grimco's Equipment Technicians walking you through the uncrating, installation, and setup of your Ally Armour G264-HA Laminator.

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2. UNCRATING YOUR LAMINATOR

Before diving into setup, follow these steps to safely uncrate your Ally Armour G264-HA Laminator. This machine is designed to be as close to **plug-and-play** as it gets—no assembly required—just uncrate, connect, and get to work.

> **Tools needed:**
> - Wrench, socket wrench, or power drill with wrench attachment
> - 4 people (recommended) to safely lift the machine
> - Included metal lifting poles (found inside the crate)

Step-by-Step Instructions:

1. **Detach the top of the wooden shipping crate from the base.** Use a wrench, socket wrench or power drill with wrench attachment to carefully unscrew the top of the crate from the crate base.

2. **Lift the Crate Lid Off.** With four people, carefully lift the top of the crate up and over the machine to fully expose the laminator. Be mindful of your surroundings and the height of the crate top.

3. **Remove the Protective Cover** by taking off the silver protective wrap from around the machine. Remove any additional protective packaging.

4. **Detach the Laminator from the Base.** Locate and remove the nuts and bolts securing the base of the laminator to the crate platform.

5. **Insert the Metal Lifting Poles** that were included in the crate. Insert each one into the designated lifting fixtures located on the inside frame of the machine. These act as sturdy lifting handles.

6. **With all four people lifting together,** raise the laminator up and off the crate base using the metal poles while keeping the unit level.

7. **Once the laminator is in place,** gently slide out the lifting poles and set them aside.

> **Not sure where to start?**
> Scan the QR code below to watch our uncrating walkthrough video, where Grimco Equipment Techs show you how to safely unpack your new Ally Armour G264-HA.

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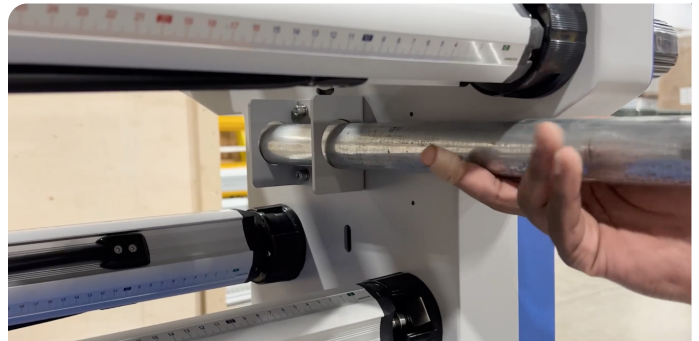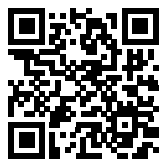
3. SET-UP INSTRUCTIONS

Simple setup. Built for busy shops. Before operating your new Ally Armour G264-HA Laminator, follow these step-by-step instructions to ensure a safe and successful installation.

3.1 INSTALLING THE HEATING ELEMENT:
(found in the plastic tube)

IMPORTANT: Always shut off power before installation or maintenance.

Tools needed:

- A #2 tip Phillips head screwdriver
- A flathead screwdriver
- A pair of snips
- A pair of pliers
- A pair of gloves

Steps:

1. Using the #2 tip Phillips head screwdriver, open the access panels on both the left and right sides and remove the rubber mats (keep these for Step #4).
2. Using the snips, cut the zip tie that is holding your wiring in place.
3. While wearing gloves, remove the heating element from the plastic tubing and insert the heating element into the roller. *Note: There will be a metal lip that you will need help from another person to lift the heating element over. The second person should help instruct you on how to position the heating element as they use a flathead screwdriver to lift it over the metal lip.*
4. Secure heating element in place by reinstalling the rubber gaskets.
5. Connect the wiring securely to the heating element:
   A. Identify ceramic pipe and cap, hex nut, flat washers, and lead wire (for both sides).
   B. Tighten all connections as shown in the diagram (on both sides).
      I. Flat washer
      II. Lead wire
      III. Flat washer
      IV. Hex nut (secure with pliers)
      V. Ceramic pipe and cap
6. Once the heating element is fully installed, reattach the access covers using the #2 tip Phillips head screwdriver.

3.2 SETTING UP THE AIR COMPRESSOR AND CONNECTING TO THE LAMINATOR:

IMPORTANT: Always shut off power before installation or maintenance.

Tools Needed:

- Air tubing
- A pair of pliers
- Air compressor filter
- Air compressor fittings

Steps:

1. Take the air compressor out of the box and check to make sure you have all the components.
2. Screw the air filter into the designated port on the compressor.
3. Install the first air fitting onto the air compressor and use the pliers to ensure a snug fit. Then connect the second air fitting to one end of the air tube. Finally, connect the fittings together.
4. Plug in the air compressor to the power source and connect the air tube from the air compressor to the input on the air regulator that is mounted on the laminator frame.
5. Power on the air compressor and open the air valve to allow airflow to the laminator.
6. Once the laminator receives air, the roller will lift—at this point, you can remove the shipping brackets.

Check out our How-To video to see important steps on setting up and connecting the air compressor.

Need a hand with assembly?
Scan the QR codes to follow along with our installation videos, led by our Grimco Team. We'll guide you through each step—from installing the heating element to connecting your air compressor and attaching the included foot pedal.

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4. OPERATING GUIDE

Smart controls. Seamless results. Once fully set up, the Ally Armour G264-HA is ready for production. Use the following guidelines for proper machine operation.

4.1 USING THE CONTROL PANEL:

Basic Functions:

- Heat ON/OFF: Press and hold the Speed knob for 3 seconds, rotate to select ON/OFF, press again to confirm.
- Temperature Setting: When heat is ON, press "Set Temp," adjust desired temperature, and press to confirm.
- Speed Adjustment: Rotate Speed knob to control laminating speed.
- Start/Stop: Use the Foot Pedal or panel button to start and stop rollers.
- Run via Rear Panel: Use rear panel button for added speed control during setup.
- Auto Stop: If idle for 2+ minutes with speed at "0", the machine will automatically stop.

Ready to get up and running?
Scan the QR code to watch our laminator operating guide, where we walk you through loading media, adjusting settings, and preparing your Ally Armour G264-HA for your first job.

4.2 LAMINATION PROCESS:

CAUTION: Oversized film can stick to rollers at the start of lamination—watch closely when beginning a job.

Tips for Success:

- Keep film and prints aligned throughout the job.
- Apply slight tension on both materials to prevent bubbles and wrinkles.

Loading Media:

1. Load film and print materials using 3" cores on both the liner and finished roll shafts.

Method A – Film First:

1. Peel film and feed between rollers until it sticks to the finished roll.
2. Align and feed print under top roller with tension.
3. Lower the roller and slowly begin lamination using panel or foot pedal.

Method B – Film with Liner:

1. Feed film and liner together through rollers.
2. Feed print underneath top roller, keeping alignment.
3. Use a safety knife to peel off the liner and stick to liner roll.
4. Lower roller and start lamination.

4.3 BUILT-IN CUTTING SYSTEM:

- Use the vertical trimmers to cut excess edges or separate graphics mid-roll.
- Adjust cutter position as needed.
- Ensure the cutter holder is locked and the cutting bar is lifted when not in use

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5. TROUBLESHOOTING

Helpful solutions to keep you running.

5.1 ROLLER BALANCE & PRESSURE ADJUSTMENT

If you're seeing uneven pressure or inconsistent results, check the roller balance:

To Adjust:

1. Measure the gap between both sides of the roller. There should be an equal 2mm gap.
2. If unbalanced, use a wrench to hold the adjustment bolt and turn the screw until both sides match.
3. To increase pressure, turn the same screw downward after confirming roller balance.

5.2 TROUBLESHOOTING CHART

ISSUE	POTENTIAL CAUSES	SOLUTION
Roller won't lift/lower	Air compressor not connected or active	Check compressor, buttons, and emergency stop
Panel not lighting up	Power/fuse issue	Check fuse and press SET for 3 seconds
Inconsistent speed	Motor or speed controller issue	Inspect fuse, button, laser sensor, motor shaft
Heater not working	Heating element or temp sensor issue	Check relay, fuse, and adjust temp correction
Bubbles in lamination	Roller imbalance, low pressure, high speed, or wet prints	Balance roller, increase pressure, slow speed, dry prints
Folds or wrinkles	Material misalignment or tension issues	Realign prints/film, check tension, ensure prints are dry

6. MAINTENANCE REMINDERS

Keep your Armour G264-HA running like new:

- Run machine slowly while heating
- Always lift roller after completing a job
- Wipe down rollers regularly
- Avoid scratching roller surfaces
- Lubricate gears and chains routinely
- Check and replace friction mats as needed

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7. NEED HELP? WE'VE GOT YOU COVERED

Support from real people who know your equipment.

If you've tried the troubleshooting steps in this manual and still need help, **Grimco's Equipment Technicians are here to support you**—real people, with real answers, ready when you need them.

7.1 LIVE CHAT WITH AN EXPERT

For quick questions or immediate support, use our **Live Chat feature** to connect in real time with a Grimco Equipment Technician. We're ready to help you get back up and running as quickly as possible.

7.2 SUBMIT A SUPPORT TICKET

If your issue is more complex or you'd like to include photos or videos (and we always recommend it—a picture is worth a thousand words), fill out an **Equipment & Software Support Ticket.** One of our technicians will reach out directly to help you troubleshoot, resolve the issue, or schedule service if needed.

Need more in-depth help?
Scan the QR code below to submit an Equipment & Software Support Ticket or use our Live Chat. It's the fastest way to get personalized help from a Grimco Technician.

8. WARRANTY INFORMATION

Your Ally Armour G264-HA Laminator is backed by Grimco's commitment to quality and customer care.

Warranty Coverage:

- **1-Year Parts & Labor Warranty:** This warranty covers defects in parts and labor for one year from the date of purchase. If a part fails or you experience an issue with your laminator, Grimco will provide repair or replacement service at no cost within the warranty period.

Need to file a warranty claim? Just submit a support ticket or reach out via Live Chat, and we'll take it from there.

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