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Gdrasuya10 Manual Pad Printer

Gdrasuya10 Manual Pad Printer Instruction Manual

Model: Manual Pad Printer

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Gdrasuya10 Manual Pad Printer. This device is designed for transferring 2-D images onto 3-D products using an indirect offset (gravure) printing process via a silicone pad. It is suitable for printing various elements such as manufacturing trademarks, expiration dates, lot numbers, signs, or logos on a wide range of materials including plastic and metal surfaces.

Please read this manual thoroughly before operating the machine to ensure safe and efficient use and to achieve optimal printing results.

2. PRODUCT OVERVIEW

The Gdrasuya10 Manual Pad Printer is a versatile and precise tool for various printing applications. Its robust design and adjustable features ensure consistent performance.

Key Features:

- **Adjustable Worktable:** Provides flexibility for various applications and object sizes.
- **One-Handed Operation:** Allows for easy placement of objects on the worktable while operating the machine.
- **High Precision:** Maintains accuracy for repetitive printing tasks.
- **Versatile Printing:** Capable of printing words, numbers, and simple logos on diverse surfaces.
- **Compact Design:** Space-saving dimensions suitable for various workspaces.

Components:



Figure 2.1: Overall view of the Gdrasuya10 Manual Pad Printer. This image displays the complete assembly of the pad printing machine, including the main body, printing arm, silicone pad, ink tray, and adjustable worktable.



Figure 2.2: Detailed views of key components. This image shows close-ups of the red silicone printing pad, the ink tray, and the multi-directional adjustable worktable, highlighting their design and functionality.



Figure 2.3: The adjustable worktable. This close-up shows the worktable with its adjustment knobs, allowing for precise positioning of items to be printed.

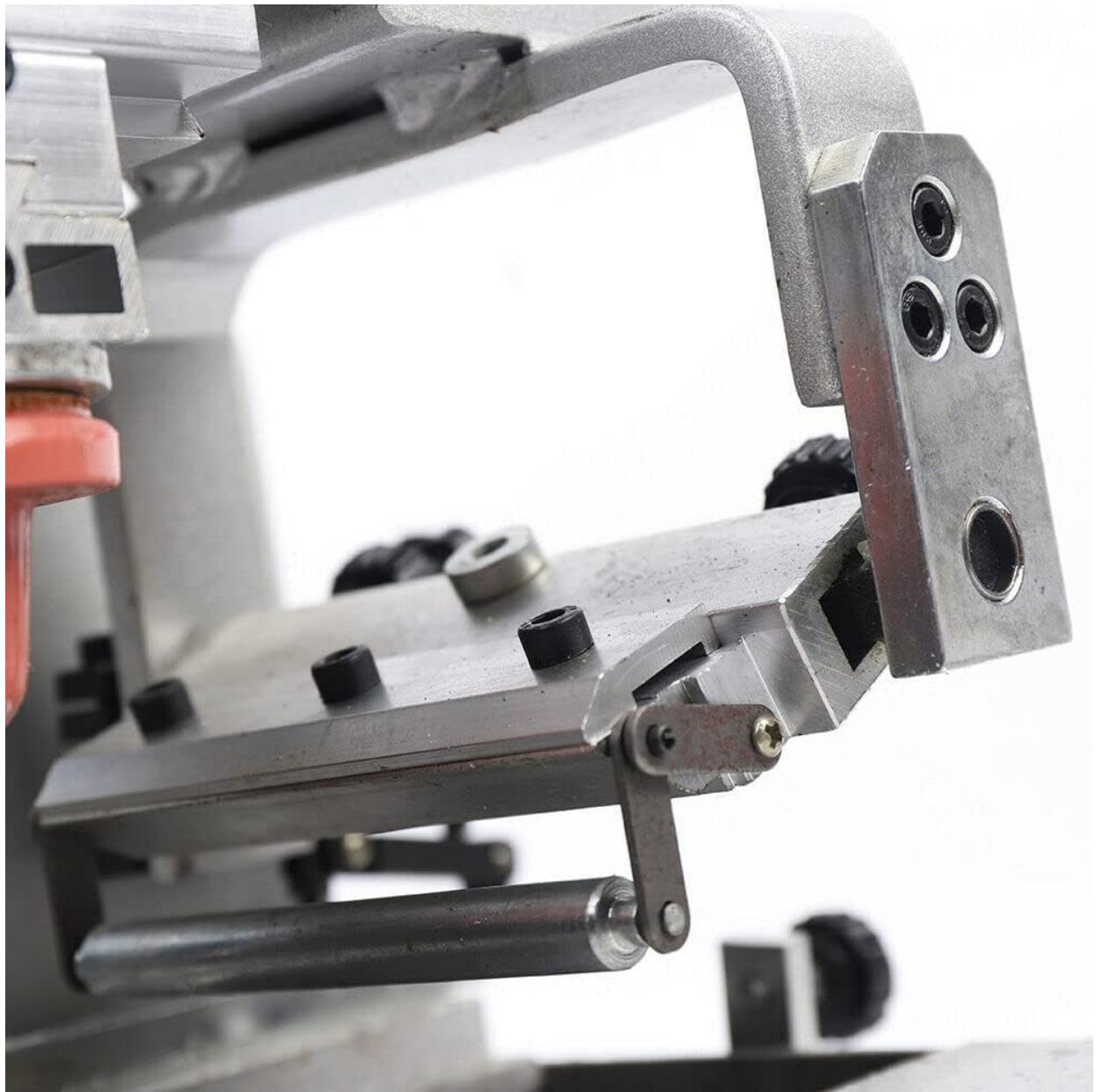


Figure 2.4: Ink scraping blade. This image details the mechanism responsible for scraping excess ink from the printing plate, ensuring a clean image transfer.

3. SETUP

Before operating the pad printer, ensure all components are securely assembled and positioned correctly. You will need to provide your own ink, rubber head (silicone pad), and pad printing blade.

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Placement:** Place the machine on a stable, level surface.
3. **Install Printing Plate:** Secure your desired printing plate (cliché) into the designated holder on the machine.
4. **Prepare Ink Tray:** Fill the ink tray with the appropriate pad printing ink. Ensure the ink is evenly spread.
5. **Adjust Worktable:** Use the adjustment knobs on the worktable to set the desired height and position for the item you intend to print. This ensures proper contact with the silicone pad.
6. **Check Silicone Pad:** Ensure the silicone pad is clean and properly seated in its holder.
7. **Power Connection (if applicable):** If your model has an electrical component (e.g., for automated ink scraping or pneumatic assist), connect it to a suitable power source as per local electrical standards.

8. **Air Compressor Connection (if applicable):** For pneumatic models, connect an air compressor to the designated inlet. Adjust the air pressure regulator to the recommended operating pressure.

Video 3.1: Manual Pad Printer Overview. This video provides a general demonstration of the manual pad printer, showcasing its components and basic functionality, which can aid in initial setup and understanding.

4. OPERATING INSTRUCTIONS

The pad printing process involves transferring ink from an etched printing plate to the silicone pad, and then from the pad to the product. Follow these steps for effective operation:

1. **Ink the Plate:** Pull the printing arm forward to allow the ink scraping blade to spread ink over the printing plate, filling the etched design, and then scrape off the excess ink.
2. **Pick Up Image:** Lower the silicone pad onto the inked printing plate. The pad will pick up the image from the etched area.
3. **Position Object:** Place the item to be printed on the adjustable worktable, ensuring it is correctly aligned with the desired print location. The one-handed operation allows for easy object placement.
4. **Transfer Image:** Move the printing arm back and lower the silicone pad onto the object. The pad will transfer the ink image onto the object's surface.
5. **Repeat:** Lift the pad, remove the printed object, and repeat the process for subsequent items. Precision is maintained for repeat jobs.

Note: This machine prints one color at a time. For multi-color prints, multiple passes with different plates and inks are required.

Video 4.1: Pad Printing Machine Operation on Fabric. This video demonstrates the manual pad printer in action, showing how to print logos and text onto fabric labels, illustrating the step-by-step process of ink transfer and object placement.

Video 4.2: 80x120mm Manual Pad Printing Machine in Use. This video showcases the manual pad printer being used to print on a plastic item, demonstrating the machine's capability for printing on three-dimensional objects and the manual operation process.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pad printer.

- **Cleaning After Use:** Immediately after each printing session, clean the printing plate, ink tray, and silicone pad with appropriate cleaning solvents to prevent ink from drying and hardening.
- **Silicone Pad Care:** Handle the silicone pad carefully. Avoid sharp objects that could damage its surface. Store it properly to maintain its shape and elasticity.
- **Lubrication:** Periodically apply a small amount of lubricant to moving parts, such as the sliding rails and pivot points, to ensure smooth operation.
- **Inspection:** Regularly inspect all screws, bolts, and connections to ensure they are tight. Check for any signs of wear or damage on mechanical parts.
- **Storage:** When not in use, store the machine in a clean, dry environment, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your pad printer, refer to the following common problems and solutions:

- **Poor Print Quality (Faded or Incomplete Image):**

- Ensure the printing plate is clean and free of dried ink.
- Check ink consistency; it might be too thick or too thin. Adjust with appropriate diluents or thickeners.
- Verify the silicone pad is clean and making full contact with both the plate and the object.
- Adjust the pressure applied during ink pickup and transfer.

- **Image Smudging or Distortion:**

- Ensure the object is securely placed on the worktable and does not shift during printing.
- Check the silicone pad for damage or excessive wear.
- Allow sufficient drying time for the ink, especially if printing multiple layers or colors.

- **Machine Movement Not Smooth:**

- Inspect sliding rails and moving parts for obstructions or dirt. Clean thoroughly.
- Apply lubricant to moving components as part of regular maintenance.
- Check for loose or overtightened fasteners.

If the problem persists after attempting these solutions, please contact customer support.

7. SPECIFICATIONS

Parameter	Value
Operation Method	Manual
Steel Plate Size	100 × 150 mm
Maximum Printing Area	80 × 120 mm
Horizontal Stroke	150 mm
Vertical Stroke of Rubber Head	60 mm
Silicone Pad Diameter	35 mm
Product Dimensions (L x W x H)	400 x 220 x 490 mm (15.75"D x 8.66"W x 19.29"H)
Material	Metal, Plastic, Silicone, Steel
Color	Multicolor

8. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact the seller directly. Protection plans may be available for extended coverage.

For technical support, spare parts, or further assistance, please contact the manufacturer or seller. You can visit the official [Gdrasuya10 Store](#) for more information.

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