Ving B07PB9N7R7

Ving Big Platen Screen Printing Press User Manual

Model: B07PB9N7R7

Brand: Ving

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of the Ving Big Platen Screen Printing Press. This micro-adjustable screen press features a large printing platen, designed for various screen printing applications, including signboard and spa signage printing.

Key features include:

- Specially designed sliding-adjustable disc gravity and gravity hole devices for accommodating extra heavy frames.
- Equipped with larger platens (24"x20" / 62x52cm) suitable for larger printing areas.
- Platens are constructed from high-density melamine materials, offering anti-distortion, waterproofing, corrosion resistance, and ease of cleaning.
- Extendibility feature allows for changing to a bigger platen by removing several bolts, if a larger printing area is required.
- Advanced electrostatic spraying and electroplating ensure durability, easy cleaning, and rust resistance.

2. SETUP AND ASSEMBLY

Carefully unpack all components and verify against the packing list. Ensure all parts are present and undamaged before proceeding with assembly.

2.1 Unpacking

Remove the machine from its packaging. The package dimensions are approximately 32"x24"x5.5" (83x62x14cm) and the gross weight is 46Lb (21kg). Retain packaging for future transport or storage.

2.2 Component Identification

Identify the main base frame, the platen, screen clamps, and various adjustment knobs and bolts.
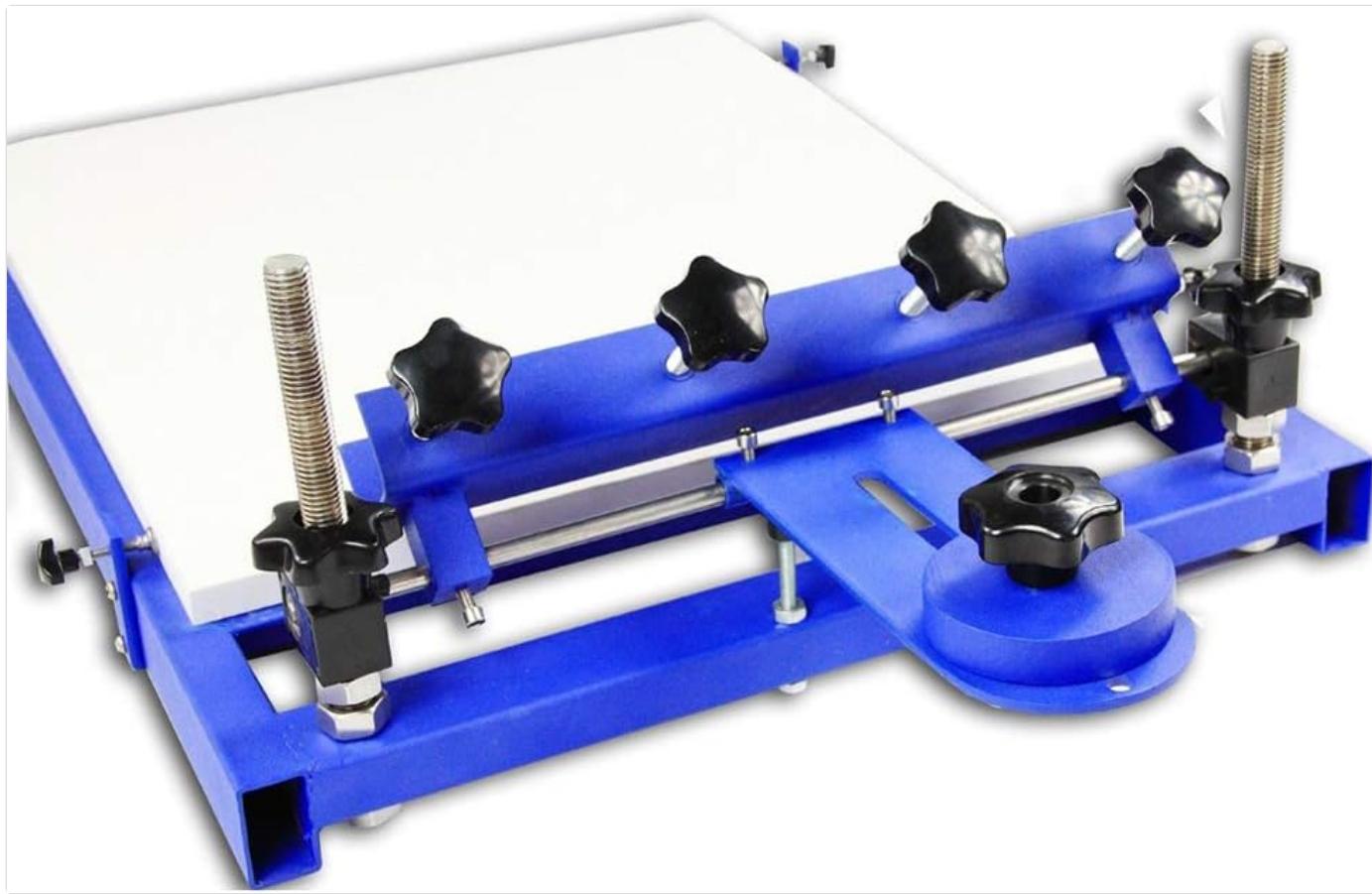
Figure 2.1: Side view illustrating the adjustment mechanisms for the screen clamps and platen.

2.3 Assembly Steps

1. **Secure the Base:** Place the main base frame on a stable, level surface.
2. **Attach the Platen:** The platen (printing board) is typically attached to the main frame using bolts. Ensure it is securely fastened and level. The platen size is 24"x20" (62x52cm).
3. **Install Screen Clamps:** Mount the screen clamps onto the designated positions on the frame. The length of the screen clamps is 14.5" (37cm). These clamps hold the screen frame in place.
4. **Adjustments:**

   - **Height Adjustment:** Utilize the up-and-down screw bar to set the height of the screen chucks. The adjustable range is 4.3" (11cm), allowing for different substrate thicknesses.

- **Platen Position:** The platen can be adjusted right and left, and back and forth, for precise registration.
- **Disc Gravity Device:** Adjust the sliding-adjustable disc gravity and gravity hole devices to properly balance and support extra heavy screen frames.

Figure 2.2: Detailed view of the rear adjustment points, including the disc gravity device.

3. OPERATING INSTRUCTIONS

This section outlines the basic steps for operating your Ving Screen Printing Press to achieve optimal printing results.

3.1 Preparing for Printing

1. **Prepare Screen:** Ensure your screen frame is properly prepared with emulsion, exposed, washed out, and dried.
2. **Mount Screen:** Place the screen frame into the screen clamps. Tighten the clamps securely to hold the screen firmly in place.
3. **Adjust Screen Height:** Use the height adjustment screws to set the off-contact distance between the screen and the platen. A small off-contact (typically 1/8 inch or 3mm) is crucial for clean prints.
4. **Position Substrate:** Place your printing substrate (e.g., signboard, fabric) onto the platen.
5. **Align Image:** Lower the screen onto the substrate. Adjust the platen's left/right and back/forth positions until the image on the screen is perfectly aligned with your desired printing area on the substrate.
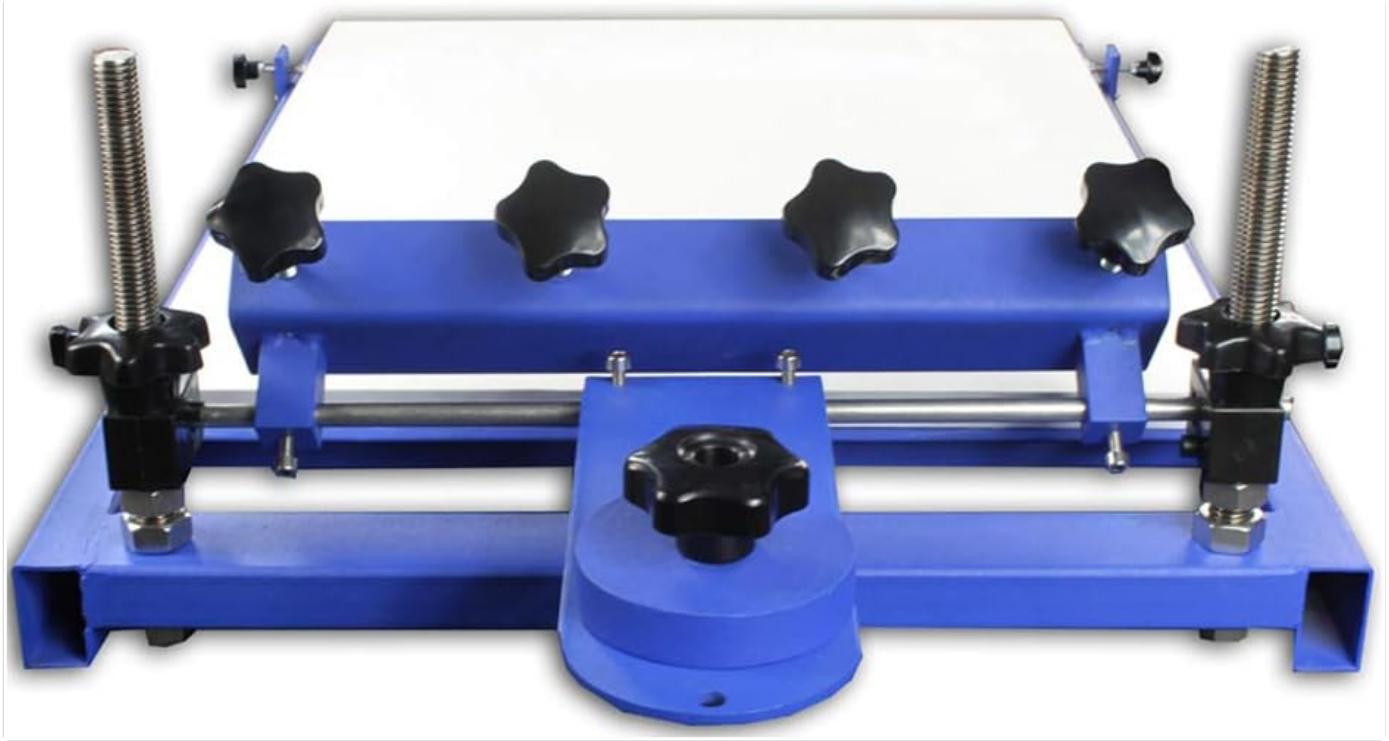
Figure 3.1: Front view showing the platen and screen clamps ready for operation.

3.2 Printing Process

1. **Apply Ink:** Pour a bead of screen printing ink across the top of your screen, above the image area.

2. **Flood the Screen:** Using a squeegee, gently pull the ink across the image area to flood the mesh, without applying pressure to push ink through. This prepares the screen for printing.

3. **Print Stroke:** Position the squeegee at the top of the image. Apply firm, even pressure and pull the squeegee across the image area in a single, smooth stroke. This pushes the ink through the mesh onto the substrate.

4. **Lift Screen:** Carefully lift the screen. The printed image should now be on your substrate.

5. **Cure Ink:** Remove the printed substrate and cure the ink according to the ink manufacturer's instructions (e.g., heat press, flash dryer, air dry).

6. **Repeat:** Place a new substrate on the platen and repeat the process for subsequent prints.

Figure 3.2: Top-down view of the large platen, ideal for various substrate sizes.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your screen printing press.

4.1 Cleaning

- **Platen Cleaning:** The melamine platen is waterproof and corrosion-resistant. After each use, clean any ink residue from the platen using appropriate screen printing cleaning solutions. Wipe dry.
- **Screen Clamps:** Clean any ink or debris from the screen clamps to ensure they maintain a secure grip on the screen frame.
- **General Machine Cleaning:** Wipe down the metal frame and components with a damp cloth to remove dust and ink splashes. The advanced electrostatic spraying and electroplating make the machine easy to clear and resistant to rust.

4.2 Lubrication

Periodically apply a small amount of lubricant to moving parts, such as the adjustment screws and sliding mechanisms, to ensure smooth operation.

4.3 Storage

When not in use, store the press in a clean, dry environment to prevent dust accumulation and potential damage.

5. TROUBLESHOOTING

This section addresses common issues you might encounter during operation.

Problem	Possible Cause	Solution
Ink smudging or blurry prints	Insufficient off-contact; uneven squeegee pressure; screen movement.	Adjust screen height for proper off-contact (approx. 1/8 inch); apply consistent squeegee pressure; ensure screen clamps are tight.
Incomplete ink transfer	Clogged screen mesh; insufficient ink; too little squeegee pressure.	Clean screen mesh thoroughly; add more ink; increase squeegee pressure.
Difficulty with registration (aligning multiple colors)	Platen or screen not securely fixed; imprecise adjustments.	Ensure all bolts and clamps are tightened; use the micro-adjustment features of the platen for fine-tuning.
Machine components stiff or difficult to adjust	Lack of lubrication; accumulated dirt.	Clean components and apply a small amount of lubricant to moving parts.

6. SPECIFICATIONS

Technical specifications for the Ving Big Platen Screen Printing Press:

- **Platen Sizes:** 24"x20" (62x52cm)
- **Length of Screen Clamps:** 14.5" (37cm)
- **Adjustable Range of Up-and-Down Screw Bar:** 4.3" (11cm)
- **Net Weight:** 40Lb (18kg)
- **Gross Weight (with packaging):** 46Lb (21kg)
- **Machine Dimensions:** 30"x22"x10" (76x56x26cm)
- **Package Dimensions:** 32"x24"x5.5" (83x62x14cm)
- **Brand:** Ving
- **Manufacturer:** Sign-in-China
- **Printing Technology:** Thermal (*Note: This classification may be generic; this is a screen printing press*)
- **Printer Output:** Color

7. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific warranty terms and contact details.
The seller for this product is **signagewholesales**. You can typically find their contact information through your purchase platform or invoice.

Related Documents
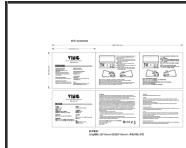
VING Flybro FB-100 Multi-Effects Processor User Manual and Specifications

This document provides detailed specifications, features, and operational information for the VING Flybro FB-100 Multi-Effects Processor. It includes technical data, connection diagrams, FCC compliance information, and usage instructions.