

VEVOR Vinyl Cutter 53in

VEVOR 53-inch Vinyl Cutter Plotter Machine User Manual

Model: Vinyl Cutter 53in

Introduction	Safety Instructions	Components	Setup	Operating Instructions
	Maintenance	Troubleshooting	Specifications	Support

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, setup, and maintenance of your VEVOR 53-inch Vinyl Cutter Plotter Machine. Please read this manual thoroughly before using the machine to ensure optimal performance and to prevent damage or injury.

The VEVOR Vinyl Cutter Plotter is designed for precise cutting of various materials such as vinyl, cardstock, window film, and heat transfer material, enabling the creation of signs, decals, and other custom designs.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in injury or damage to the machine.

- Always ensure the machine is placed on a stable, level surface.
- Keep hands and fingers clear of the cutting blade during operation. The blade is extremely sharp.
- Disconnect power before performing any maintenance or adjustments.
- Do not operate the machine in wet or damp conditions.
- Ensure proper ventilation when working with certain materials that may emit fumes.
- Only use accessories and replacement parts approved by VEVOR.
- Keep children and unauthorized personnel away from the operating machine.
- In case of emergency, immediately press the emergency stop button and disconnect power.

3. PRODUCT COMPONENTS

Familiarize yourself with the main components of your VEVOR Vinyl Cutter Plotter Machine.



Figure 3.1: VEVOR 53-inch Vinyl Cutter Plotter Machine with stand and included accessories (power cables, USB cable, blade holder, blades, Signmaster software, and USB drive).

53 INCH VINYL CUTTER MACHINE

Create endless projects with fancy paper decorations at ease.



Figure 3.2: The 53-inch VEVOR Vinyl Cutter Plotter Machine positioned in a workshop environment, demonstrating its scale and application for creating large vinyl decorations.

RELIABLE PERFORMANCE

Higher Efficiency, Larger Memory, Lower Noise

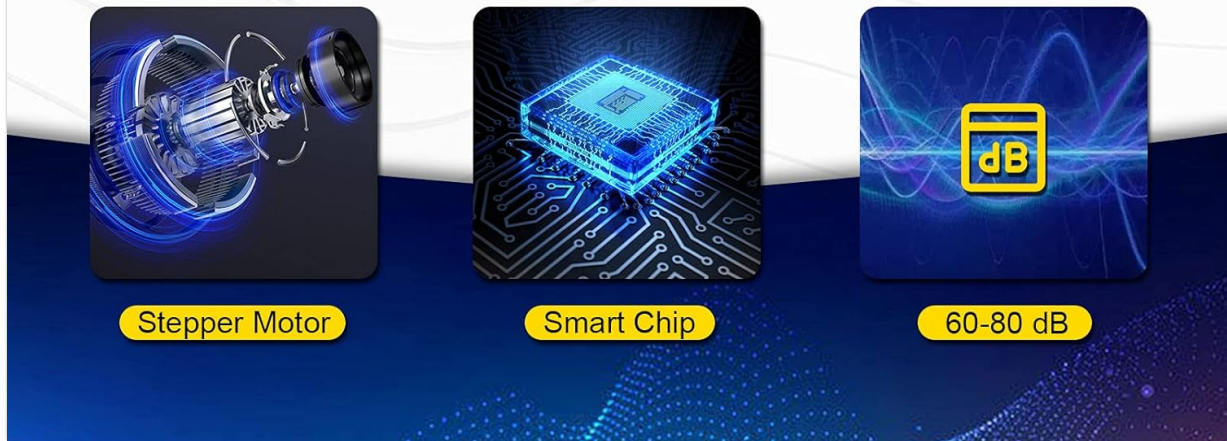


Figure 3.3: Diagram illustrating the reliable performance features, including maximum paper feed (53.1"/1350mm), maximum cutting width (49.6"/1260mm), cutting precision (0.0004"/0.01mm), stepper motor, smart chip, and noise level (60-80 dB).

ADJUSTABLE FORCE & SPEED

Digital LCD screen & anti-deviation design benefit to accurate cutting



- Cutting Force: **10-500g**
- Cutting Speed: **10-800mm/ S**



Figure 3.4: Close-up view of the digital LCD screen and control panel, showing adjustable cutting force (10-500g) and cutting speed (10-800mm/s), along with pinch rollers and the anti-deviation design.

DUAL PORTS TO CONNECT

COMPIM & USB ports available



Support Desktops



Support Notebook



Support all-in-one PCS



Not compatible with Mac.



Windows XP/Vista/7/8/10

Compatible with most operating systems

Figure 3.5: Illustration of the dual connectivity options, including COMPIM and USB ports, and compatibility with Windows XP/Vista/7/8/10. Note: Not compatible with Mac systems.

THREE PRECISE BLADES

Equipped w/ 3 standard blades & a blade holder to avoid slipping



Sharp Blade

High Density Cutting Blade

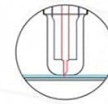


Specifications:

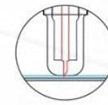
Length: 24 mm
Shaft Diameter: 2 mm
Knife Point Offset: 0.25 mm
Angle: 45 °



Assemble Tips



Blade tip is too long



Blade tip is too short



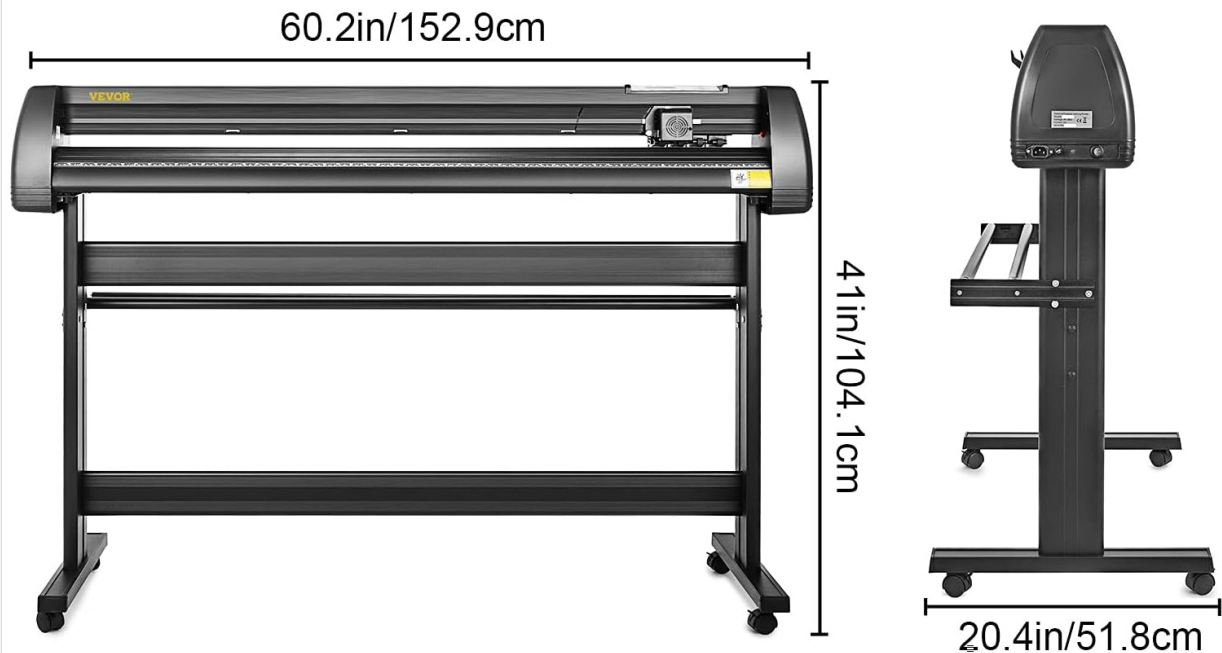
Mind your Finger!

Figure 3.6: Detailed image of the three standard cutting blades, their specifications (length, shaft diameter, knife point offset, angle), and visual tips for correct blade tip length relative to material thickness and base thickness. A warning icon reminds users to be careful with fingers near the sharp blade.

PRODUCT SPECIFICATIONS:

VEVOR®

Product Dimensions (L x W x H):
60.2 x 41 x 20.4 inch/153 x 104 x 52 cm



Cards



T-Shirts



Cups

Figure 3.7: Overview of product specifications, including dimensions (60.2 x 41 x 20.4 inches / 153 x 104 x 52 cm) and examples of applications such as cards, T-shirts, and cups.

4. SETUP INSTRUCTIONS

4.1 Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect the machine for any signs of shipping damage. If damage is found, contact customer support immediately.
3. Verify that all listed components are present:
 - Vinyl Cutter Plotter Machine
 - Stand components
 - Power cable
 - USB cable
 - Blade holder
 - Standard blades (3 included)
 - Signmaster software (CD or download URL with activation code)
 - USB drive (if included)

4.2 Assembling the Stand

Assemble the stand according to the included assembly diagram. Ensure all screws are tightened securely for stability.

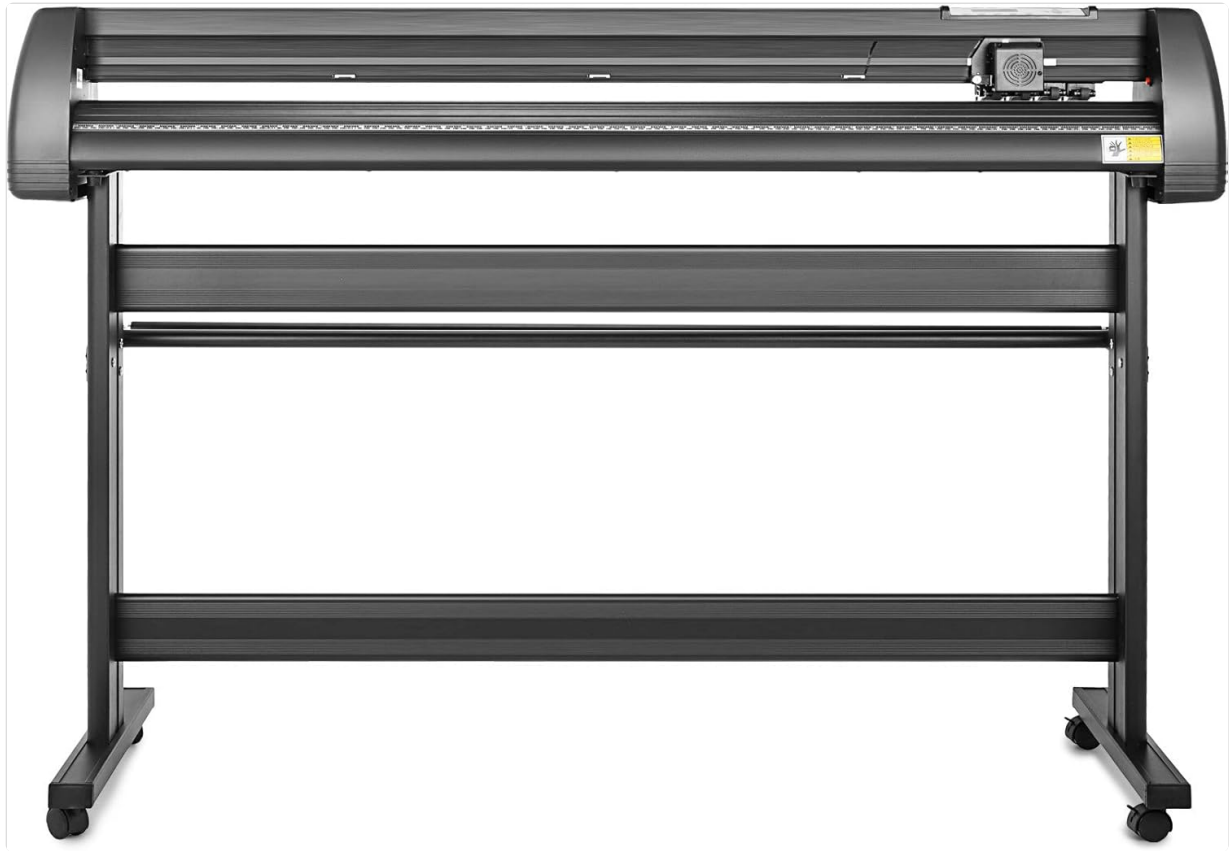


Figure 4.1: The assembled stand for the VEVOR Vinyl Cutter Plotter Machine, providing stable support.

4.3 Installing the Blade

1. Insert a blade into the blade holder.
2. Adjust the blade tip exposure. The tip should be just barely visible, extending only enough to cut through the material without scoring the backing. Refer to Figure 3.6 for visual guidance.
3. Secure the blade holder into the carriage of the plotter.

4.4 Software Installation and Driver Setup

1. Install the Signmaster software using the provided CD or by downloading it from the URL specified on the activation card.
2. Enter the software account activation code (PSN) when prompted.
3. Connect the vinyl cutter to your computer using the USB or COMPIIM cable.
4. Install the necessary drivers. The Signmaster software installation typically includes driver setup. If not, drivers may be found on the provided media or the manufacturer's website.
5. Verify successful connection and driver installation through your computer's device manager.

5. OPERATING INSTRUCTIONS

5.1 Loading Material

1. Ensure the pinch rollers are lifted.

2. Place the vinyl or other material onto the feed rollers, aligning it straight.
3. Lower the pinch rollers to secure the material. Ensure the material is held firmly and evenly across the rollers to prevent deviation during cutting.

5.2 Adjusting Cutting Parameters

Use the digital control panel to set the cutting force and speed. These settings are crucial for achieving clean cuts without damaging the material backing.

- **Cutting Force:** Adjust between 10-500g. Start with a lower force and increase gradually until the material is cut cleanly.
- **Cutting Speed:** Adjust between 10-800mm/s. Slower speeds generally yield more precise cuts, especially for intricate designs.

Perform test cuts on scrap material to fine-tune these settings before starting your main project.

5.3 Sending a Cut Job

1. Prepare your design in the Signmaster software.
2. Ensure the design is correctly sized and positioned for your material.
3. Select the appropriate cutting machine model in the software settings.
4. Send the cut job from the software to the plotter.
5. Monitor the cutting process. Use the emergency stop button if any issues arise.

6. MAINTENANCE

6.1 Cleaning

- Regularly clean the machine's exterior with a soft, dry cloth.
- Remove any vinyl scraps or dust from the cutting area and around the rollers.
- Clean the pinch rollers with a damp cloth to ensure proper material grip.

6.2 Blade Replacement

Replace blades when they become dull or damaged to maintain cutting precision. Refer to Section 4.3 for blade installation instructions.

6.3 Roller Inspection

Periodically inspect the pinch rollers and feed rollers for wear or damage. Worn rollers can lead to material deviation and inaccurate cuts.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Machine not powering on	Power cable disconnected; Power switch off; Faulty power outlet	Check power cable connection; Ensure power switch is on; Try a different outlet

Problem	Possible Cause	Solution
Cuts are inaccurate or incomplete	Incorrect blade depth; Dull blade; Incorrect cutting force/speed; Material not loaded straight; Loose pinch rollers	Adjust blade depth; Replace blade; Adjust force/speed settings; Reload material ensuring it's straight; Ensure pinch rollers are securely lowered
Software not detecting machine	USB/COMPIM cable disconnected; Driver not installed correctly; Incorrect port selected in software	Check cable connections; Reinstall drivers; Verify port settings in Signmaster software
Material jams or slips	Pinch rollers not engaged; Material loaded unevenly; Worn rollers	Ensure pinch rollers are down; Reload material carefully; Inspect and replace worn rollers if necessary

8. SPECIFICATIONS

- **Model:** Vinyl Cutter 53in
- **Max Paper Feed:** 53 inches (1350mm)
- **Max Cutting Width:** 49.6 inches (1260mm)
- **Cutting Thickness:** 0.04 inches (1mm)
- **Cutting Precision:** +/-0.0004 inches (0.01mm)
- **Paper Feed Precision:** 118 inches (3m)
- **Cutting Pressure:** 10-500g
- **Cutting Speed:** 10-800mm/s
- **Motherboard:** D-typed / ARM
- **Cache Memory:** 2MB / 16MB high-speed
- **Interface:** COMPIM & USB
- **Supported Languages:** DMPL/HPGL
- **Compatible System:** Windows XP/Vista/7/8/10 (Not compatible with Mac)
- **Product Dimensions (L x W x H):** 60.2 x 20.39 x 40.98 inches (152.9 x 51.8 x 104.1 cm)
- **Item Weight:** 61.7 pounds (28 kg)
- **Manufacturer:** VEVOR

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact VEVOR customer service. Refer to your purchase documentation for specific warranty terms and contact details. You can also visit the official VEVOR store for additional resources and support: [VEVOR Official Store](#)

