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VEVOR TT-450

VEVOR Cutting Machine TT-450 Instruction Manual

Model: TT-450 | Brand: VEVOR

Box Setup Operating Overview Maintenance What's in the Troubleshooting Specifications Support

1. Product Overview

The VEVOR Cutting Machine TT-450 is an automatic edge detection vinyl cutter designed for precision cutting of various materials. It is compatible with multiple file formats and includes design software, making it suitable for customized DIY crafts, cards, and stickers. This machine offers high accuracy and adjustable cutting speeds to meet diverse creative needs.

Key Features:

- **Precision Cutting:** Achieves ±0.1mm accuracy with cutting speeds from 20 to 400mm/s, featuring automatic edge detection.
- **Zero-Cost Creativity:** Includes design software with a vast library of pre-made designs and is compatible with SVG, EPS, PLT, AI file formats.
- **Wide Compatibility:** Cuts over 100 materials including adhesive vinyl, HTV, cardstock, and EVA foam, with 10 adjustable blade pressure levels.
- **Stylish Design:** Modern white metal body with a color touchscreen for intuitive operation.
- **Rich Accessories:** Comes with 7 materials (vinyl, HTV, stickers, etc.) and software with an extensive image library.



Image 1.1: The VEVOR Cutting Machine TT-450, a versatile tool for various craft projects.

2. What's in the Box

Upon unboxing your VEVOR Cutting Machine TT-450, please ensure all the following components are present:

- 1 x Cutting Machine
- 1 x User Manual
- 3 x Blades
- 1 x Blade Holder with Adjustment
- 8 x Rolls of Polyethylene (Instant Stickers) Cutting Materials
- 1 x Cutting Mat (A3 Size)
- 1 x Transfer Film (30cm x 2m)
- 1 x Tool Kit (Hook, Tweezers, Cutter)
- 1 x Pressure Bar
- 1 x USB Cable
- 1 x Software Installation Disc
- 1 x Adapter
- 1 x USB Flash Drive



Item Model Number: **TT-450**
Max Paper Feed Slot Width: **17" / 450mm**
Max Cutting Size: **13" / 330mm**
Cutting Material Thickness: **≤0.04" / 1mm**
Connection Method: **USB/U-Disk**
Memory: **16M**
Software System: **Windows (Signmaster), Signcut (Free for Mac, One Year)**
Cutting Precision: **±0.004" / 0.1mm**
Cutting Speed Range: **20-400mm/s**
Product Color: **White**
Main Material: **Aluminum Alloy**
Product Dimensions: **24.6" x 7.3" x 7.3" / 625 × 185 × 185mm**
Net Weight: **16.4 lbs / 7.45 kg**

Accessories: **1 x User Manual**
3 x Blades
1 x Blade Holder with Adjustment
8 x Rolls of Polyethylene (Instant Stickers) Cutting Materials
1 x Cutting Mat (A3 Size)
1 x Transfer Film (30cm x 2m)
1 x Tool Kit (Hook, Tweezers, Cutter)
1 x Pressure Bar
1 x USB Cable
1 x Software Installation Disc
1 x Adapter
1 x USB Flash Drive

Image 2.1: All components included with the VEVOR Cutting Machine TT-450.

3. Setup

3.1 Unpacking and Placement

- Carefully remove the cutting machine and all accessories from the packaging.
- Place the machine on a stable, flat surface with adequate space for material feeding and output.
- Ensure the power switch is in the OFF position before connecting any cables.

3.2 Blade Assembly and Adjustment

Proper blade assembly and adjustment are crucial for optimal cutting performance. Refer to the video below for a visual guide.

▶ **Watch video online**
Blade assembly video

Video 3.1: Detailed instructions on how to assemble and adjust the cutting blade for the VEVOR Cutting Machine TT-450.

1. Unscrew the bottom cap of the blade holder.
2. Carefully insert a blade into the holder. The blade is magnetic and will find its position.
3. Screw the bottom cap back on.
4. Adjust the blade depth by rotating the top part of the blade holder. For most vinyls, a setting of 2 or 3 is ideal, allowing only a tiny tip of the blade to protrude.
5. Test the blade depth on a scrap piece of material to ensure it cuts through the vinyl layer without cutting the backing.

3.3 Software Installation

Install the included design software from the provided USB flash drive or installation disc. The software allows you to create and prepare your designs for cutting. Follow the on-screen instructions for installation.

4. Operating Instructions

4.1 Loading Material

Place your cutting material (e.g., vinyl, cardstock) onto the cutting mat. Ensure the material is smooth and free of wrinkles. Align the cutting mat with the guides on the machine and secure it using the locking handle at the back of the machine.



Image 4.1: A user loading cutting material onto the machine's mat.

4.2 Preparing Designs with Software

Use the included design software (SignMaster) to create or import your desired designs. The software supports SVG, EPS, PLT, and AI formats. You can adjust the size, position, and other parameters of your design within the software.



Image 4.2: The design software interface on a laptop, showing various design options.

4.3 Setting Cutting Parameters

On the machine's control panel, you can adjust the cutting speed and force. The display shows 'On-line', 'mm/S' (speed), and 'g' (force). Use the V+ / V- buttons to adjust speed and F+ / F- buttons to adjust force. A typical force setting for vinyl is 20-30g, but this may vary based on material thickness and blade sharpness.

4.4 Executing the Cut

Once your design is ready in the software and material is loaded, send the cutting job to the machine. The machine will automatically detect the edges of your material and begin cutting. The automatic edge detection feature ensures precise cuts along your patterns.

▶ **Watch video online**
Edge Cutting

Video 4.3: Demonstration of the automatic edge detection cutting process.

▶ **Watch video online**
Normal Cutting

Video 4.4: Example of normal cutting operation for various designs.

4.5 Weeding and Application

After cutting, carefully remove the excess material (weeding) using the tools provided in the kit. Then, apply your cut design to the desired surface using transfer film if necessary.

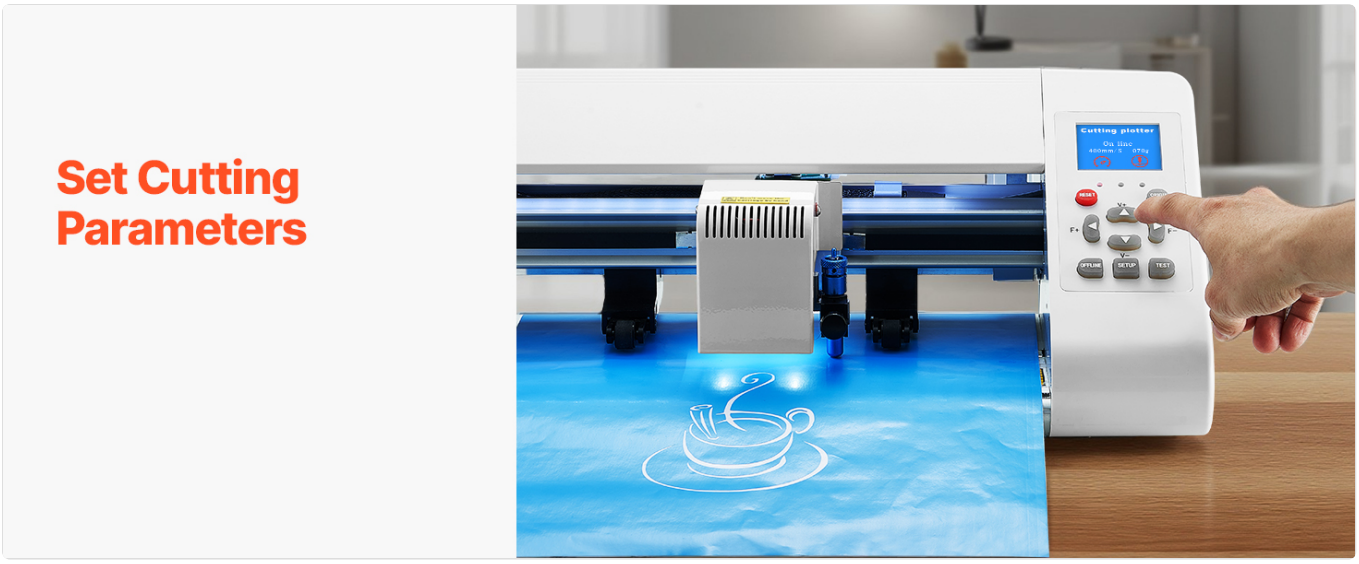

Image 4.5: Various stickers and decals created using the VEVOR Cutting Machine TT-450.

5. Maintenance

- **Cleaning:** Regularly clean the cutting mat and the machine's surface to prevent dust and debris buildup. Use a soft, dry cloth.
- **Blade Replacement:** Replace blades when they become dull to maintain cutting precision. Always handle blades with care.
- **Software Updates:** Check for software updates periodically to ensure optimal performance and compatibility.

6. Troubleshooting

- **Poor Cut Quality:** Check blade depth, ensure the blade is sharp, and verify cutting force settings.
- **Material Not Feeding:** Ensure the material is properly aligned and secured on the cutting mat, and the locking handle is engaged.
- **Software Connection Issues:** Verify USB cable connection and ensure the correct port is selected in the software. Restart the machine and computer if necessary.
- **Edge Detection Failure:** Ensure the material is well-lit and the registration marks (if used) are clear and visible to the machine's sensor.

7. Specifications

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Product Color	White
Main Material	Aluminum Alloy
Product Dimensions	24.6" x 7.3" x 7.3" / 625 x 185 x 185mm
Net Weight	16.4 lbs / 7.45 kg

8. Warranty and Support

VEVOR is committed to providing high-quality products and excellent customer service. For any questions, technical support, or warranty claims, please visit the official VEVOR support center.
VEVOR Support Center: www.vevor.com/support
Please retain your purchase receipt for warranty purposes.

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