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## VEVOR DMJ-0001

# VEVOR Vacuum Investing Casting Machine DMJ-0001 User Manual

Professional Casting System for Jewelry and Metal

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and efficient operation of your VEVOR Vacuum Investing Casting Machine, Model DMJ-0001. This professional casting system is designed for precision jewelry and metal casting, offering powerful vacuum capabilities to ensure high-quality, bubble-free results. It is suitable for both professional jewelers and hobbyists.

The machine features a 290W motor, a 3 CFM vacuum pump, a bell jar, a convenient oil injection port, and a precision pressure gauge, all integrated into an 11 x 11 inch workbench. Please read this manual thoroughly before initial use to ensure proper setup and operation.

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions to prevent injury or damage to the machine:

- Ensure the machine is placed on a stable, level surface.
- Do not operate the machine in wet or damp conditions.
- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when operating the machine.
- **IMPORTANT:** Add 350ML of vacuum oil before starting the machine for the first time. Refer to the 'Setup' section for detailed instructions.
- Do not turn off the motor until the vacuum is fully released.
- Keep hands and loose clothing away from moving parts.
- Disconnect power before performing any maintenance or cleaning.
- Ensure adequate ventilation in the work area.

## 3. PRODUCT OVERVIEW AND COMPONENTS

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The VEVOR Vacuum Investing Casting Machine is designed for efficient and precise casting. Key features and included components are detailed below:

## Key Features:

- **Powerful Vacuum Capability:** The large thickened vacuum hood and 3CFM vacuum speed quickly and effectively extract air, eradicating bubbles and burrs from dies. This improves surface smoothness and enhances the quality and precision of your products.
- **Upgraded Oil Filling Port:** The oil filling port is located on the top of the vacuum investing casting machine, making it easy to add vacuum oil without removing the back panel. Standard line design for easy oil addition.
- **Precision Pressure Gauge:** The casting machine's pressure gauge provides clear readings, allowing you to monitor vacuum status during casting. It helps adjust vacuum levels accurately, ensuring bubbles are effectively removed for a flawless finish.
- **Easy to Operate:** One-button On-Off switch, adjustment rod, and heat-dissipating back panel make casting easy to operate and adjust.
- **Spacious Workbench:** An 11 x 11 inch workbench provides ample space for mold placement.
- **Efficient Heat Dissipation:** Large ventilation openings lower temperature, avoid overheating, reduce risk of overload, and prevent dust and debris accumulation.

## Included Components:

- Vacuum pump
- Bell jar (Transparent Dome Cover)
- Workbench
- 3 Adapter Plates
- 4 Rubber Rings
- 3.5 inch Perforated Flask & Base
- Stainless Steel Flask Clamp
- Vacuum Oil Funnel



Figure 3.1: Main view of the VEVOR Vacuum Investing Casting Machine.



Figure 3.2: Various accessories including adapter plates, rubber rings, flask, and clamp.

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Video 3.1: An overview of the VEVOR Vacuum Investing Casting Machine and its included components.

## 4. SETUP

Follow these steps for initial setup of your casting machine:

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage during transit.
2. **Placement:** Place the machine on a sturdy, level workbench. Ensure there is sufficient space around the unit for ventilation and operation.

3. **Oil Filling:** Locate the oil filling port on the top of the machine. Using the provided funnel, add approximately 350ML of vacuum oil. The upgraded design allows for easy oil injection without removing the back panel. Monitor the oil level through the visual filling port on the side.
4. **Power Connection:** Connect the machine to a standard three-prong power outlet.
5. **Component Assembly:** Place the appropriate adapter plate and rubber ring on the vacuum hood platform. Position the bell jar over the platform when ready for use.



Figure 4.1: The upgraded oil injection port for convenient oil addition.

## Complete Accessories

Ensure smoother operation



**3 Adapter Plates/4 Rubber Rings**  
Provides Better Fixation and Sealing



**3.5 in Perforated Flask & Base**  
For Loading and Pouring Molten Metal



**Stainless Steel Flask Clamp**  
Securely Holds and Operates the Flask

Figure 4.2: Visual oil filling port for monitoring oil levels.

## 5. OPERATING INSTRUCTIONS

Operating the VEVOR Vacuum Investing Casting Machine involves several key steps to ensure successful casting:

### General Operation:

1. **Power On:** Flip the red 'ON/OFF' switch to the 'ON' position to start the vacuum pump.
2. **Vacuum Control:** Use the vacuum release valve to control the vacuum for either the investment table or the casting chamber.
3. **Monitor Pressure:** Observe the precision pressure gauge to ensure the desired vacuum level is achieved and maintained.
4. **Heat Dissipation:** The machine is designed with efficient heat dissipation to allow for prolonged operation.

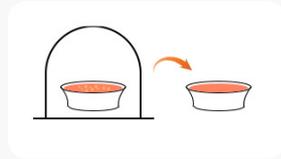
### Casting a Jewelry Model:

1. Place the mold in the vacuum hood to reduce air pores and burn marks for a flawless finish.
2. Insert the mold into the 2L casting chamber and pour in the prepared molten metal.
3. Immerse the cast item in water to cool, then take out the semi-finished jewelry.
4. Polish and finish to create beautiful jewelry.

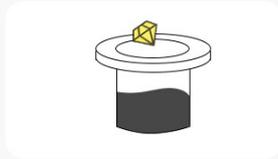


Figure 5.1: Precision pressure gauge for real-time monitoring and the On-Off switch.

## How to Cast a Jewelry Model?



1. Place it in the vacuum hood to reduce air pores and burn marks for a flawless finish



2. Insert the mold into the 2L casting chamber and pour in the prepared molten metal



3. Immerse the model in water to cool, then take out the semi-finished jewelry



4. Polish and finish to create beautiful jewelry



Figure 5.2: Step-by-step process for casting a jewelry model.



Figure 5.3: The 11 x 11 inch workbench and thickened vacuum hood, suitable for larger and complex molds.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR Vacuum Investing Casting Machine:

- **Oil Level Check:** Periodically check the vacuum oil level through the visual port. Refill as necessary to maintain proper operation.
- **Cleaning:** Keep the machine clean and free from dust and debris. Wipe down exterior surfaces with a soft, dry cloth.
- **Vacuum Hood:** Ensure the vacuum hood and rubber seals are clean and free from damage to maintain a proper seal.
- **Ventilation:** Ensure the ventilation openings are not obstructed to allow for efficient heat dissipation.



Figure 6.1: Rear view showing the efficient heat dissipation system.

## 7. TROUBLESHOOTING

If you encounter issues with your VEVOR Vacuum Investing Casting Machine, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Machine does not power on	No power supply; Power switch off	Check power connection; Ensure switch is in 'ON' position
Insufficient vacuum pressure	Low vacuum oil level; Leaky seals; Obstructed vacuum lines	Check and refill vacuum oil; Inspect and replace seals; Clear any obstructions
Excessive noise during operation	Low vacuum oil; Loose components	Check and refill vacuum oil; Tighten any loose parts
Bubbles or imperfections in casting	Insufficient vacuum; Improper mold preparation	Ensure proper vacuum level; Verify mold preparation steps

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

## 8. SPECIFICATIONS

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Detailed technical specifications for the VEVOR Vacuum Investing Casting Machine, Model DMJ-0001:

Specification	Value
Model Name	Vacuum Investing Casting Machine
Item Model Number	DMJ-0001
Brand	VEVOR
Machine Maximum Power	290W
Vacuum Speed	3 CFM
Casting Chamber (Inner diameter x Depth)	Φ5x7 in / Φ127x178 mm
Maximum Object Size	4 x 6 in / 102 x 152 mm
Vacuum Hood Platform Size	11 x 11 in / 280 x 280 mm
Transparent Dome Cover Material	Acrylic
Vacuum Oil Capacity	400ml
Vacuum Oil Type	46#
Main Material	Steel
Product Dimensions (L x W x H)	19.29 x 10.83 x 15.75 inches
Item Weight	59.1 Pounds / 26.8 kg
UPC	197988878995



Figure 8.1: Dimensional overview and key specifications.

## 9. WARRANTY AND SUPPORT

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VEVOR is committed to providing high-quality products and customer satisfaction.

- **Returns:** This product is eligible for 30-day easy returns.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact VEVOR customer support. Refer to the product packaging or the official VEVOR website for contact information.