

Jet JDC-501

JET JDC-501 Metalworking Dust Collector User Manual

Model: JDC-501

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and setup of your JET JDC-501 Metalworking Dust Collector. Please read and understand all instructions before operating the machine. Retain this manual for future reference.



Figure 1.1: The JET JDC-501 Metalworking Dust Collector. This unit is designed for collecting abrasive dust from various metalworking processes.

2. SAFETY INFORMATION

WARNING: Always follow basic safety precautions to reduce the risk of fire, electric shock, or personal injury.

- Read and understand all instructions before operating the dust collector.
- Wear appropriate personal protective equipment, including eye protection and respiratory protection, especially when handling collected dust.
- Ensure the dust collector is properly grounded to prevent electrical shock.
- Do not operate the machine in damp or wet locations.
- Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- Keep children and bystanders away while operating the dust collector.
- Disconnect power before performing any maintenance or cleaning.

- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any parts are missing or damaged, contact your supplier immediately.

- JET JDC-501 Metalworking Dust Collector Unit
- 3-inch to 2-inch Adapters (x2)
- Preinstalled Filters (x2)
- Casters (x4)
- Hardware for assembly
- Wrench

4. SETUP AND ASSEMBLY

Follow these steps to set up your JDC-501 dust collector.

4.1. Caster Installation

Attach the four casters to the bottom of the dust collector unit using the provided hardware. Ensure they are securely fastened for stable mobility.



MAGENTIC ON/OFF SWITCH & SAFETY KEY

Figure 4.1: The dust collector equipped with casters for easy movement within the workshop.

4.2. Dust Port Connection

The unit features two 3-inch dust ports. Use the included 3-inch to 2-inch adapters if connecting to smaller diameter hoses or machinery. Ensure all connections are tight to prevent dust leakage and maintain optimal suction.



METAL DUST COLLECTION DRAWER

Figure 4.2: Rear view of the dust collector showing the dual 3-inch dust ports for connecting to machinery.

4.3. Power Connection

Connect the dust collector to a 115V power outlet. The unit is equipped with a magnetic ON/OFF switch and a safety key. Insert the safety key into the switch before operation.



EASY-TO-CHANGE AIR FILTERS

Figure 4.3: Close-up of the magnetic ON/OFF switch and safety key, designed for secure operation.

5. OPERATION

The JDC-501 is designed for efficient collection of abrasive dust in metalworking environments.

5.1. Starting the Unit

1. Ensure all dust port connections are secure.
2. Verify the safety key is inserted into the magnetic ON/OFF switch.
3. Press the 'ON' button to start the dust collector.

5.2. Dust Collection Efficiency

The JDC-501 features efficient filtering that captures 95% of 5-micron particles, contributing to a cleaner and safer working environment. It provides 490 CFM (Cubic Feet per Minute) of airflow.



**FILTERS 99% OF
5-MICRON PARTICLES**

Figure 5.1: Internal filters capable of capturing 95% of 5-micron particles, ensuring effective dust removal.

5.3. Stopping the Unit

Press the 'OFF' button on the magnetic switch to stop the dust collector. For extended periods of non-use, remove the safety key and disconnect the power cord.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your dust collector.

6.1. Emptying the Dust Collection Drawer

Chips and dust collect into a metal drawer located at the bottom of the unit. Regularly empty this drawer to prevent buildup and maintain suction efficiency. Disconnect power before emptying.



DUAL 3-INCH DUST PORTS

Figure 6.1: The easy-to-empty metal dust collection drawer, designed for convenient disposal of collected debris.

6.2. Changing Air Filters

The JDC-501 uses easy-to-change air filters. Periodically inspect and replace filters as needed to maintain filtration efficiency. Refer to the filter replacement instructions provided with your replacement filters.



Figure 6.2: Close-up of the filter latch mechanism, illustrating the ease of changing air filters.

7. TROUBLESHOOTING

If you encounter issues with your JDC-501 dust collector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not start	No power supply Safety key not inserted	Check power cord and outlet Insert safety key fully
Low suction power	Full dust drawer Clogged filters Loose hose connections	Empty dust drawer Clean or replace filters Tighten all hose connections

Problem	Possible Cause	Solution
Unusual noise	Foreign object in fan Loose components	Disconnect power and inspect fan area Check for loose hardware and tighten

8. SPECIFICATIONS

- **Model:** JDC-501
- **Manufacturer:** JPW Industries
- **Item Weight:** 157 pounds
- **Product Dimensions:** 32 x 28 x 33 inches
- **Material:** Steel
- **Power Source:** Corded Electric
- **Voltage:** 115 Volts
- **Horsepower:** 1.5 HP
- **Airflow (CFM):** 490 CFM
- **Sound Level:** 75 dB
- **Filtration Efficiency:** 95% of 5-micron particles

9. WARRANTY AND SUPPORT

The JET JDC-501 Metalworking Dust Collector comes with a 2-year warranty. For warranty claims, technical support, or replacement parts, please contact JET customer service. Keep your purchase receipt as proof of purchase.



Figure 9.1: The JET 2-Year Warranty badge, indicating coverage for your product.

For further assistance, visit the official Jet website or contact their customer support.

© 2023 JET Tools. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question