

## Jet JMD-18

# JET JMD-18 Milling/Drilling Machine User Manual

Model: JMD-18 (350018)

## INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your JET JMD-18 230-Volt 1 Phase Milling/Drilling Machine. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent injury or damage.

The JET JMD-18 is a versatile milling and drilling machine designed for precision work. It features a hinged belt cover for faster speed changing and a 9-1/2-by-31-3/4-inch worktable. This model includes a 24-piece milling tool kit, which contains a 5-piece wiggler set, enhancing its utility for various machining tasks.

## SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep your work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.

- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and sturdy footwear.
- Ensure the machine is properly grounded and connected to a suitable power supply (230-Volt, 1 Phase).
- Keep hands and fingers clear of moving parts.
- Securely clamp all workpieces before beginning any operation.
- Disconnect power before performing any maintenance or adjustments.

## SETUP AND ASSEMBLY

Unpack all components carefully and inspect for any shipping damage. Ensure all parts listed in the packing list are present. Position the machine on a stable, level surface capable of supporting its weight. Secure the machine to the floor if necessary to prevent movement during operation.

## Machine Overview



Figure 1: JET JMD-18 Milling/Drilling Machine with its stand. This image shows the complete assembly of the machine, including the head, column, table, and base.

### Electrical Connection

Connect the machine to a dedicated 230-Volt, 1 Phase power supply. Ensure the circuit is protected by an appropriate circuit breaker. Consult a qualified electrician if you are unsure about the electrical requirements.

### OPERATING INSTRUCTIONS

## Speed Changing

The JET JMD-18 features a hinged belt cover for convenient speed adjustments. To change speeds:

1. Ensure the machine is turned off and disconnected from power.
2. Open the hinged belt cover.
3. Adjust the belt position on the pulleys to achieve the desired spindle speed. Refer to the speed chart inside the belt cover for recommended settings.
4. Close the belt cover securely before resuming operation.

## Workpiece Clamping

Always securely clamp your workpiece to the 9-1/2-by-31-3/4-inch worktable using appropriate clamps or a vise. Loose workpieces can cause injury or damage to the machine and workpiece.

## Milling and Drilling Operations

Familiarize yourself with the controls for spindle feed, table movement (X, Y, Z axes), and depth stop. Always start with light cuts and gradually increase depth as you become familiar with the machine's capabilities and the material being worked on.

## MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your JET JMD-18 machine. Always disconnect power before performing any maintenance.

- **Cleaning:** Keep the machine clean from chips, dust, and debris. Use a brush or shop vacuum. Avoid using compressed air directly on bearings.
- **Lubrication:** Regularly lubricate all moving parts, including lead screws, gibbs, and spindle bearings, according to the lubrication points indicated in the machine diagram (refer to full manual for diagram).
- **Belt Inspection:** Periodically inspect the drive belts for wear, cracks, or tension. Replace worn belts and adjust tension as needed.
- **Table Care:** Keep the worktable clean and free of nicks or burrs. Apply a thin coat of rust preventative if the machine will be idle for extended periods.

## TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your JET JMD-18 machine. For problems not listed here, contact JET customer support.

Problem	Possible Cause	Solution
Machine does not start	No power supply; Emergency stop engaged; Motor overload	Check power connection and circuit breaker; Release emergency stop button; Reset motor overload protector
Excessive vibration	Loose mounting bolts; Unbalanced cutting tool; Worn bearings	Tighten mounting bolts; Balance or replace cutting tool; Inspect and replace bearings if necessary

Problem	Possible Cause	Solution
Inaccurate cuts	Loose gibs; Worn lead screws; Improper tool setup	Adjust gibs; Inspect and replace lead screws; Ensure proper tool installation and setup

## SPECIFICATIONS

Feature	Detail
Model	JMD-18 (350018)
Power Requirement	230-Volt, 1 Phase
Worktable Dimensions	9-1/2 inches by 31-3/4 inches
Spindle Taper	R-8
Included Accessories	24-Piece Milling Tool Kit (including 5pc Wiggler Set)
Country of Origin	Taiwan
Date First Available	April 19, 2018

## WARRANTY INFORMATION

JET products are backed by a comprehensive warranty. For specific warranty terms and conditions applicable to your JMD-18 machine, please refer to the warranty card included with your product or visit the official JET website. Keep your purchase receipt as proof of purchase.



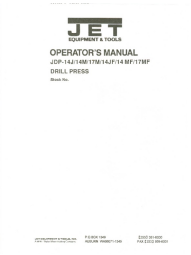



The buybox winner information indicates a return policy of 30 days for refund/replacement, fulfilled by Amazon. This is a general return policy and not necessarily the manufacturer's warranty.

## CUSTOMER SUPPORT

For technical assistance, parts orders, or service inquiries regarding your JET JMD-18 Milling/Drilling Machine, please contact JET customer support. You can find contact information on the official JET website or in the documentation provided with your machine.

Visit the official Jet Store on Amazon for more information:[JET Store](#)



	<p><a href="#">JET JMD-1452TS DRO Universal Milling Machine Operation Manual</a></p> <p>Comprehensive operation manual for the JET JMD-1452TS DRO universal milling machine, covering safety, installation, operation, maintenance, and specifications.</p>
	<p><a href="#">JET JBOS-5 Benchtop Oscillating Spindle Sander: Operating Instructions and Parts Manual</a></p> <p>This manual provides operating instructions, safety precautions, specifications, and a parts list for the JET JBOS-5 Benchtop Oscillating Spindle Sander. It covers setup, maintenance, warranty, and troubleshooting for woodworking professionals.</p>
	<p><a href="#">JET Drill Press Operator's Manual - JDP Series</a></p> <p>This operator's manual provides essential safety instructions, specifications, assembly, operation, and maintenance details for JET JDP-14J, JDP-14M, JDP-17M, JDP-14JF, JDP-14MF, and JDP-17MF drill press models.</p>
	<p><a href="#">JET JTM-4VS Variable Speed Turret Mill: Operating Instructions and Parts Manual</a></p> <p>Comprehensive operating instructions, maintenance procedures, and parts list for the JET JTM-4VS Variable Speed Turret Mill. Essential guide for safe and efficient use of this metalworking machinery.</p>
	<p><a href="#">JET JDP-20EVS Variable Speed Drill Press: Operating Instructions and Parts Manual</a></p> <p>Comprehensive operating instructions and parts manual for the JET JDP-20EVS Variable Speed Drill Press, covering safety, installation, operation, maintenance, and parts identification. Includes specifications for JDP-20EVS/230 and JDP-20EVS/460 models.</p>
	<p><a href="#">JET Hand Dryer Installation and User Manual</a></p> <p>Comprehensive installation, usage, maintenance, and troubleshooting guide for the JET Hand Dryer. Includes specifications, safety warnings, and assembly instructions for professional installation.</p>