



# Operating and Maintenance Instructions 1/4-inch Air Die Grinder

Model JNS-7033E



**JET**  
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**Part No. M-JNS7033E**  
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# Warranty and Service

JET warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

## Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

## Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

## What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance.

## Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

## How to Get Technical Support

Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

## More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

## How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

## Limitations on This Warranty

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

JET sells through distributors only. The specifications listed in JET printed materials and on official JET website are given as general information and are not binding. JET reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET® branded products are not sold in Canada by JPW Industries, Inc.

## Product Listing with Warranty Period

90 Days – Parts; Consumable items; Light-Duty Air Tools
1 Year – Motors; Machine Accessories; Heavy-Duty Air Tools; Pro-Duty Air Tools
2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes
5 Year – Woodworking Machinery
Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.

# Warnings

1. Read and understand this entire manual before attempting assembly or operation.
2. Read and understand the warnings posted on the tool and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace the warning labels if they become obscured or removed.
4. This die grinder is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of an air operated die grinder, do not use until proper training and knowledge have been obtained.
5. Do not use this tool for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear approved safety glasses/face shields while using this die grinder. (Everyday eyeglasses only have impact resistant lenses; they are *not* safety glasses.)
7. Wear ear protectors (plugs or muffs) if the noise exceeds normal levels.
8. Use gloves if needed when operating the die grinder. Keep hands and body away from the working area of the tool.
9. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
  - Lead from lead based paint.
  - Crystalline silica from bricks, cement and other masonry products.
  - Arsenic and chromium from chemically treated lumber.Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as face or dust masks that are specifically designed to filter out microscopic particles.
10. Do not operate this tool while tired or under the influence of drugs, alcohol or any medication.
11. Maintain proper balance and keep your footing at all times. Non-slip footwear or anti-skid floor strips are recommended.
12. Before operating this die grinder, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair.
13. Excessive air pressure and too much free rotation may decrease the life of the tool and may cause a hazardous situation.
14. Check air hoses for wear, and keep them away from heat and sharp edges. Do not carry the die grinder by the air hose.
15. Do not use this air tool near flammable objects or potentially explosive environments.
16. Do not leave a connected tool unattended. When not in use, disconnect tool from the air source.
17. Disconnect die grinder from air supply before making adjustments or changing accessories.
18. Keep work area clean and free of clutter.
19. Keep visitors a safe distance from the work area. **Keep children away.**
20. Give your work undivided attention. Looking around, carrying on a conversation and “horse-play” are careless acts that can result in serious injury.
21. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and safer.
22. Repetitive motions and/or exposure to constant vibration can be harmful to hands and arms. Take breaks and relax your hands occasionally during extended operation of the die grinder.

- 23. Compressed air can be harmful if directed toward sensitive areas of the body, and may propel small particles caught in the air stream. Exercise proper caution.
- 24. Use recommended accessories; improper accessories may be hazardous.
- 25. Maintain tools with care. Keep the die grinder clean and oiled for best and safest performance.

## Specifications

Stock Number.....	JNS-7033E
Collet Size (in.).....	1/4
Horsepower.....	1/4 HP
Free Speed (no load) (RPM).....	22,000
Required Air Pressure (PSI).....	90
Average Air Consumption (CFM).....	4
Air Inlet Diameter (in.).....	1/4 NPT
Air Hose Inside Diameter (in.).....	3/8
Vibration Value (m/s <sup>2</sup> ).....	5.4
Overall Length (in.).....	10.25
Noise Level (dB).....	93
Net Weight (lb).....	2

The above specifications were current at the time this manual was published, but because of our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring obligations.

Record your purchase information here for quick reference:

Stock No.:	Serial No.:
Purchased From:	Date Purchased:

## Unpacking

The box should include **1 Air Die Grinder** and **2 Wrenches**. Any missing or damaged parts should be reported to your JET® distributor. Read this instruction manual thoroughly for operation, maintenance and safety instructions.

## Operation

1. The die grinder must be properly lubricated before operating. See "Maintenance" section for lubricating instructions.
2. Remove the protective cap from the air inlet, and connect the air supply hose. Make sure the air pressure is set to 90psi.

**IMPORTANT:** Connecting a quick-change coupling directly to the die grinder is not recommended, as vibration may cause the connection to fail. Instead, add a leader hose and install any quick-change couplings farther down the line.

3. Loosen the collet nut using the two wrenches on the flats of the collet nut and spindle (Figure 1). Keep the wrench on the spindle stationary while turning the wrench on the collet nut.
4. Install a grinding point (not included) into the collet and re-tighten the collet nut securely using the wrenches.
5. Press forward on the safety lever and down on the trigger (Figure 2). How far down the trigger is pressed determines rotation speed of the tool.

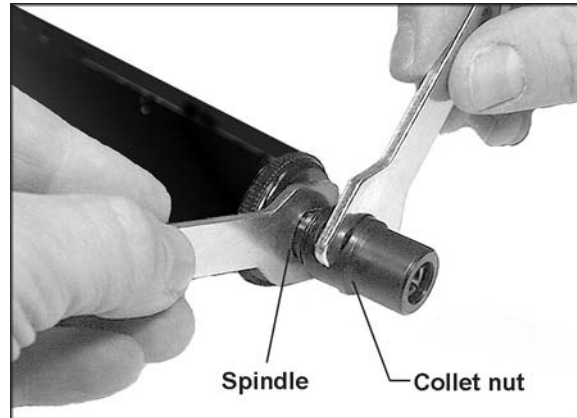


Figure 1

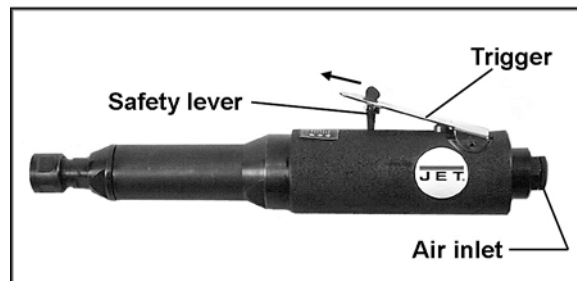


Figure 2

## Maintenance

The die grinder should be lubricated daily (or before each use) with air tool oil through the air inlet. During continual operation, it should be re-oiled every 3 to 4 hours. This can be done either with an in-line oiler, or manually. If done manually, proceed as follows:

1. Disconnect the air hose from the die grinder.
2. Place four or five drops of air tool oil\* into the air inlet (Figure 3).

[\*NOTE: Air tool oil not provided. It may be purchased from your JET dealer, or is available at most major hardware and tool stores. SAE #10 weight oil may be used as a substitute. Do not use detergent oil.]

3. Re-connect the air. Run the die grinder without load for a few seconds to distribute the oil throughout the tool.



Figure 3

- When you are finished operating the die grinder, before storing it disconnect the air hose and place 4 or 5 drops of air tool oil into the air inlet; re-connect the air and run the tool for a few seconds to distribute the oil.
- Avoid storing the grinder in very humid locations which promotes rusting of internal mechanisms, and always oil it before storage.

### Air Connection

- Make sure that the air compressor supplies clean air at the correct CFM for the die grinder.

**CAUTION** Excess air pressure and/or unclean air will shorten the tool's life and may create a hazardous situation.

- Set air pressure to 90 psi.
- Drain the water from the air compressor tank daily, as well as any condensation from the air lines. Water in the air line may enter the tool and cause damage.
- Change filters on the air system on a regular basis.
- Air line pressure should be increased accordingly to compensate for extra long air hoses (usually over 25 feet). Inside diameter of the hose should be a minimum of 3/8".

### Troubleshooting

Trouble	Probable Cause	Remedy
Die Grinder does not operate at normal speed.	Air pressure is too low.	Adjust air pressure to 90psi.
	Air lines are twisted, or there is a blockage in them.	Untwist or clean out air lines.
	Air compressor is malfunctioning, or is not sufficient capacity for the tool.	Replace air compressor.
	Air regulator is malfunctioning.	Have regulator repaired or replaced at an authorized service center.
Stops operating.	No air pressure.	Check air compressor and hoses. Make sure compressor is set at 90psi, and air lines are not twisted.
	Trigger or throttle valve is malfunctioning.	Have throttle valve/trigger inspected and repaired at an authorized service center.
Torque is diminished.	Air leakage.	Check connections at the air inlet, o-rings, etc. Make adjustments/repairs as needed.
Starts immediately as soon as air is connected without trigger being pressed.	Throttle valve or trigger are malfunctioning.	Inspect and repair throttle valve and/or trigger.
Abnormal vibration and/or excessive heat develops in the tool.	Improper lubrication.	Lubricate properly according to instructions in this manual.

To order parts or reach our service department, call 1-800-274-6848 Monday through Friday (see our website for business hours). Having the Model Number and Serial Number of your tool available when you call will allow us to serve you quickly and accurately.



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