

# 1/8" MICRO PENCIL DIE GRINDER INSTRUCTIONS



The **ROCKWOOD® 1/8" MICRO PENCIL DIE GRINDER** is a high-quality precision tool perfect for many close-quarter projects. It features a positive 1/8" non-slip collet for quick, convenient and secure accessory changes. A high rpm motor provides smooth operation, and the slim design fits virtually anywhere a pencil would. Speed is easily controlled with an infinitely progressive rotating sleeve control.

## CONTENTS

- (1) 1/8" Micro Die Grinder
- (1) 1/8" Collet (installed)
- (2) 9mm Collet Wrenches
- (10) 1/8" Shank Grinding Stones
- (1) 1/4" NPT Inline Oiler
- (1) Oil Bottle
- (1) 1/4" FNPT, Male Quick Disconnect Inlet Fitting
- (1) Rugged Blow Molded Window Case



## SPECIFICATIONS

- Collet Size:** 1/8 [3mm]
- RPM:** 54,000 free speed
- Air Consumption:** 4 cfm [113 L/min] @ 90 PSI
- Inlet Thread size:** 1/4" MNPT
- Variable Speed Air Motor**

# SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

## DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

## WARNING

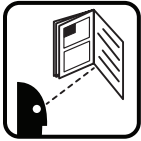
WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

## CAUTION

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

## NOTICE

NOTICE is used to address practices not related to personal injury.



### READ INSTRUCTIONS

- Thoroughly read and understand these product instructions before using this tool. Failure to follow all warnings can result in tool damage or serious physical injury.
- Keep these product instructions for future reference.



### WARNING HEALTH HAZARD!

- Dust and fine particles generated by grinding can contain hazardous or toxic substances. Always wear a NIOSH-approved respirator while using this grinder.



### WARNING EYE INJURY HAZARD!

- Rapidly rotating surfaces can eject metal particles, dirt and debris at high velocity. Always wear ANSI approved eye protection when operating this tool.



### WARNING HEARING DAMAGE HAZARD!

- This Rockwood Pneumatic Tool emits high sound levels while operating. Use ANSI approved ear protection when operating.



### CAUTION BURSTING HAZARD!

- Do not exceed 90 psi (6.3 bar) of tool inlet pressure. Permanent tool damage and/or explosion could occur and cause personal injury.



### **⚠ CAUTION INJURY HAZARD!**

- This tool uses high-speed, highly abrasive cutting surfaces which can quickly cause injury. Keep fingers and hands away from moving parts when operating. Wear thick, well-fitting work gloves and keep loose clothing, sleeves, cords, jewelry and hair away from moving parts.
- This tool will eject sparks at high speed which can ignite flammable materials or injure others nearby. Do not operate near flammable materials and keep all persons and pets away from the work area.
- Do not force tool or exert excessive side forces on tool while in use as accessories can bend or disintegrate causing them to fragment and eject sharp pieces at high velocity.
- Always make sure the workpiece is securely clamped or anchored to avoid sudden movements which could result in injury.
- Frequently inspect accessory and tool condition. If damage develops, discontinue tool use immediately and replace damaged accessory. **ONLY USE** replacement 1/8" shank accessories rated for 54,000 RPM or greater use, otherwise severe injury or death can result in the event of accessory failure.

### **⚠ CAUTION VIBRATION INJURY HAZARD!**

- This tool will vibrate during use! Repeated exposure to vibration may cause physical injury. Always disconnect tool from air supply when changing accessories to prevent accidental tool starting and potential severe injury.

# SET-UP

- Using a good quality Teflon sealing tape (Not Included), thread the 1/4" MNPT threads of the Inline Oiler into the NPT threads of the Male Quick Disconnect Inlet Fitting and tighten securely (FIG 1).
- Once again, apply Teflon sealing tape (not included) onto the male 1/4" NPT threads of the Air Hose fitting then thread it into the Inline Oiler and tighten securely (FIG 1).
- Fill the included Oil Bottle with a good quality air tool oil. Remove the Phillips head screw oil-fill plug of the Inline Oiler. Using the needle spout of the Oil Bottle, fill the Inline Oiler. Replace oil-fill plug (FIG 1).



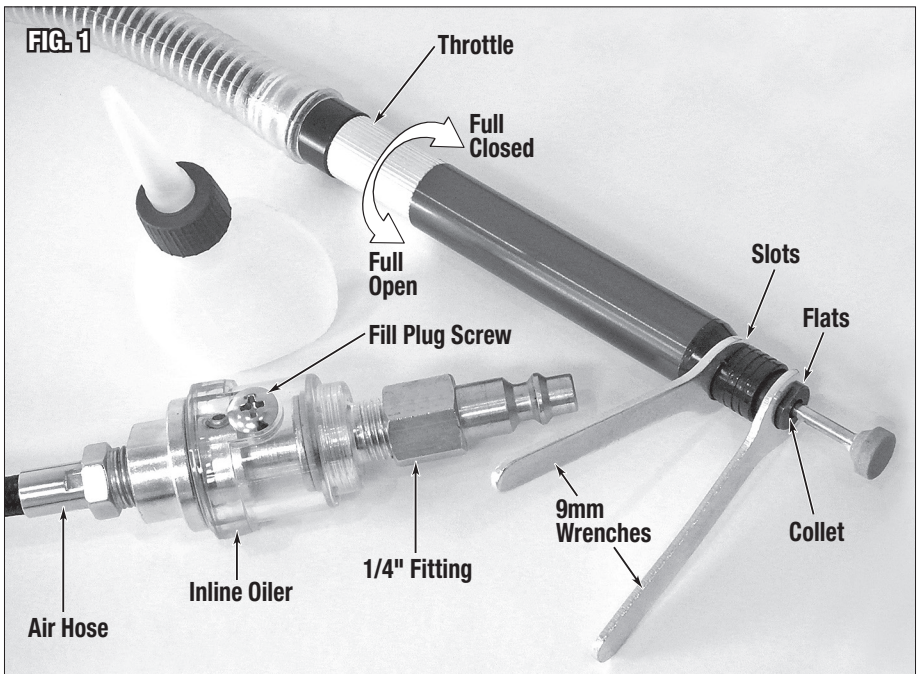
## CAUTION INJURY HAZARD!

To avoid injury, always disconnect air supply to the Micro Pencil Die Grinder before installing or replacing accessories.



## CAUTION INJURY HAZARD!

To avoid injury, only use accessories balanced and rated for High-RPM, (54,000 or greater) use.



## TO INSTALL OR SWITCH ACCESSORIES:

- With air supply disconnected, Align the wrench slots of the Micro Grinder Body with the wrench flats of the Shaft.
- Slide one of the 9mm Collet Wrenches into the Slots and over the wrench flats of the shaft (**FIG 1**).
- Place the 2nd Wrench over the flats of the Collet Retainer (**FIG 1**).
- Loosen the threaded-on Collet Retainer to release the Collet grip on accessory shank and pull out the accessory. Replace accessory with one of the same size shank by sliding the shank into the Collet then retighten securely.

## CONNECTION

- Be sure that the air supply to the tool is clean and dry. Moisture in the supply line will quickly damage the motor and valves.
- A minimum 3/8" I.D. air line should be used for optimal performance.

## OPERATION

**▲ CAUTION INJURY HAZARD!**

To avoid injury, always disconnect air supply to Micro Die Grinder before installing or replacing accessories or accessories.

**▲ CAUTION INJURY HAZARD!**

To avoid injury, only use accessories and accessories rated for High-RPM, (54,000 or greater) use.

- Make sure the ribbed Throttle Sleeve is rotated to the full closed position (**FIG 1**).
- Connect air supply, hold tool securely and turn the ribbed Throttle Sleeve to the right to open Throttle (**FIG 1**). Speed is regulated by the amount the Throttle Sleeve is turned.  
**NOTE:** Total range of Throttle Sleeve motion is less than 90° closed to full-open.

## MAINTENANCE

- Add air tool oil to the Inline Oiler as the oil level is depleted to maintain sufficient lubrication to the air motor.

# TROUBLESHOOTING

|  |  |   |
|--|--|---|
| <b>Tool doesn't respond to Throttle rotation</b>           | Insufficient volume of air (CFM) to operate tool | Verify sufficient air supply to tool. (4 CFM @ 90 PSI minimum requirement). |
|  | Moisture or other contamination in air supply    | Check for moisture in air line and tool air inlet.                          |
| <b>Tool performance is slow or sluggish</b>                | Insufficient volume of air (CFM) to operate tool | Verify sufficient air supply to tool. (4 CFM @ 90 PSI minimum requirement). |
|  | Moisture or other contamination in air supply    | Check for moisture in air line and tool air inlet.                          |
|  | Air Motor is lacking lubrication                 | Stop use immediately and add air tool oil directly to air inlet.            |
| <b>Tool is excessively noisy/ emits high pitched sound</b> | Air Motor is lacking lubrication                 | Stop use immediately and add air tool oil directly to air inlet.            |
| <b>Tool vibrates excessively during use</b>                | Out of balance condition from damaged accessory  | Stop use immediately, check for damage and replace accessory.               |
|  | Loose Collet Retainer                            | Tighten loose Collet Retainer securely.                                     |

# ADDITIONAL ITEMS

**#13003** Buff Bob Mini Cylinder Assortment

**#13051** Buff Bob Assortment Mini Cones

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**If you have any questions about the use of this product, please contact**

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: [techelp@eastwood.com](mailto:techelp@eastwood.com)

PDF version of this manual is available online >> [eastwood.com/31837manual](http://eastwood.com/31837manual)

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