

## Ingco MG13092

# INGCO MG13092 Mini Die Grinder Rotary Tool Kit User Manual

Model: MG13092

## 1. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating this tool. Read all instructions before use.

### General Safety Rules:

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Always wear eye protection. Use safety glasses, goggles, or a face shield. Wear hearing protection when operating the tool for extended periods. Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Maintenance:** Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

## 2. PRODUCT OVERVIEW

The INGCO MG13092 Mini Die Grinder is a versatile rotary tool designed for precision tasks such as drilling, sanding, buffing, polishing, and engraving. It features a 130W motor and variable speed control for

optimal performance across various materials and applications. The kit includes a flexible shaft and 52 accessories to enhance its functionality.



Figure 2.1: INGCO MG13092 Mini Die Grinder Rotary Tool Kit, showing the main unit, flexible shaft, and various accessories.

### Included Components:

- INGCO MG13092 Mini Die Grinder (130W)
- Flexible Shaft
- 52-piece Accessory Set (for drilling, sanding, buffing, polishing, engraving)
- Storage Case (BMC - Blow Molded Case)

## 3. SETUP

### 3.1 Attaching Accessories:

1. Ensure the tool is unplugged from the power source.
2. Locate the collet nut at the front of the tool.
3. Press the shaft lock button (usually near the collet) to prevent the shaft from rotating.
4. Unscrew the collet nut using the provided wrench.
5. Insert the desired accessory shank into the collet. Ensure the accessory is fully seated.
6. Tighten the collet nut securely with the wrench while holding the shaft lock button. Do not overtighten.

### 3.2 Connecting the Flexible Shaft:

1. Unplug the die grinder from the power source.
2. Remove the collet nut and collet from the main tool.
3. Unscrew the nose piece (outer casing) from the main tool.
4. Insert the inner drive cable of the flexible shaft into the main tool's shaft, ensuring it engages properly.
5. Screw the flexible shaft's coupling nut onto the main tool's housing until secure.
6. At the handpiece end of the flexible shaft, attach the desired accessory following the steps in 3.1.

### 3.3 Power Connection:

Connect the tool's power cord to a standard 240V AC electrical outlet. Ensure the power switch is in the 'OFF' position before plugging in.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off:

To turn the tool ON, slide the power switch to the 'ON' position. To turn it OFF, slide the switch to the 'OFF' position.

### 4.2 Variable Speed Control:

The INGCO MG13092 features a variable speed control dial. Rotate the dial to adjust the rotational speed from 10,000 RPM to 32,000 RPM. Start with a lower speed for delicate work or when learning, and gradually increase as needed for the material and accessory being used.

### 4.3 Recommended Uses:

- **Drilling:** Use appropriate drill bits for small holes in various materials.
- **Sanding:** Attach sanding bands or discs for smoothing surfaces, shaping, or removing rust.
- **Buffing/Polishing:** Use buffing wheels with polishing compounds to achieve a high-gloss finish on metals, plastics, and other materials.
- **Engraving:** Utilize engraving cutters for detailed work on wood, metal, glass, or plastic.

Always test on a scrap piece of material first to determine the optimal speed and accessory for your specific task.

## 5. MAINTENANCE

---

### 5.1 Cleaning:

After each use, unplug the tool and clean the exterior with a soft, damp cloth. Use a brush or compressed air to clear dust and debris from the ventilation openings. Do not use harsh chemicals or abrasive cleaners.

### 5.2 Accessory Replacement:

Regularly inspect accessories for wear or damage. Replace worn or dull accessories to ensure efficient and safe operation. Follow the accessory attachment instructions (Section 3.1) for safe replacement.

### 5.3 Storage:

Store the die grinder and its accessories in the provided BMC case in a clean, dry place, out of reach of children. Ensure the power cord is neatly coiled and not kinked.

## 6. TROUBLESHOOTING

---

If you encounter issues with your INGCO MG13092 Mini Die Grinder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	No power supply; Power switch off; Damaged cord/plug	Check power outlet; Ensure switch is ON; Inspect cord for damage, seek professional repair if damaged.
Excessive vibration or noise	Accessory not properly seated or balanced; Worn accessory; Flexible shaft not correctly installed	Re-seat accessory; Replace worn accessory; Re-install flexible shaft ensuring proper engagement.
Tool loses power during operation	Overload; Loose connection	Reduce pressure on the tool; Check power cord connection.

If the problem persists after attempting these solutions, contact customer support or a qualified service technician.

## 7. SPECIFICATIONS

---

Feature	Specification
Model Number	MG13092
Input Power	130W
Voltage	240 Volts
No-load Speed	10,000 - 32,000 RPM
Collet Size	3.2mm
Speed Control	Variable Speed
Item Weight	200 Grams
Product Dimensions (L x W x H)	18 x 9 x 6 Centimeters
Included Components	Die Grinder, Flexible Shaft, 52 Accessories

## 8. WARRANTY AND SUPPORT

This INGCO product is manufactured to high-quality standards and is warranted against defects in materials and workmanship. Please refer to the warranty card included with your purchase for specific terms and conditions, including the warranty period and coverage details.

For technical assistance, spare parts, or warranty claims, please contact your authorized INGCO dealer or customer service. Keep your purchase receipt as proof of purchase.