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> INGCO DP133505 Drill Press Instruction Manual

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INGCO DP133505 Drill Press Instruction Manual

Model: DP133505

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your INGCO DP133505 Drill Press. Please read it thoroughly before assembly, operation, or maintenance to ensure proper use and prevent injury.

1.1 General Safety Instructions

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Keep children and bystanders away from the operating machine.
- Secure the workpiece firmly before drilling.
- Never operate the drill press if any parts are damaged or missing.
- Disconnect power before making adjustments, changing accessories, or performing maintenance.
- Do not force the tool; allow the drill bit to cut at its own pace.
- Avoid wearing loose clothing or jewelry that could get caught in moving parts.

2. PRODUCT OVERVIEW

The INGCO DP133505 is a versatile bench-top drill press designed for precision drilling tasks. Familiarize yourself with its components before operation.

2.1 Main Components



Figure 1: Main view of the INGCO DP133505 Drill Press. This image displays the complete assembly of the drill press, including the base, column, work table, motor housing, and drill head.

1. **Base:** Provides stability for the entire unit.
2. **Column:** The vertical support structure for the drill head and work table.
3. **Work Table:** Adjustable platform for securing workpieces.
4. **Drill Head:** Contains the motor, spindle, and chuck.
5. **Depth Stop:** Mechanism to control drilling depth.

6. **Feed Handles:** Used to lower the drill bit into the workpiece.
7. **Chuck:** Holds the drill bit securely.
8. **Motor:** Powers the drill press.
9. **Power Switch:** On/Off control for the motor.

3. SETUP AND ASSEMBLY

Before operating the drill press, ensure it is properly assembled and secured to a stable workbench.

3.1 Unpacking and Inspection

- Carefully remove all components from the packaging.
- Inspect for any shipping damage. If damage is found, do not operate the machine and contact customer support.
- Verify all parts listed in the packing list are present.

3.2 Assembly Steps

1. **Attach the Column to the Base:** Securely fasten the column to the base using the provided bolts and washers.
2. **Install the Work Table:** Slide the work table onto the column and tighten its locking mechanism at the desired height.
3. **Mount the Drill Head:** Carefully place the drill head assembly onto the top of the column and secure it.
4. **Install Feed Handles:** Thread the feed handles into the drill head.
5. **Install Chuck:** Insert the chuck onto the spindle taper. Use a rubber mallet to gently tap it into place, ensuring a secure fit.
6. **Secure to Workbench:** For stability and safety, bolt the drill press base to a sturdy workbench.





Figure 2: Assembled INGCO DP133505 Drill Press. This image shows the drill press fully assembled and ready for use, highlighting its compact design suitable for benchtop placement.

4. OPERATING INSTRUCTIONS

4.1 Selecting Drill Bits

- Always use sharp, clean drill bits appropriate for the material being drilled.
- Ensure the drill bit shank fits securely in the chuck.

4.2 Adjusting Speed

The INGCO DP133505 features 5-speed settings (580-2650 RPM) to accommodate various materials and drilling requirements. Speed adjustment is typically done by changing the belt position on the pulleys located under the top cover.



Figure 3: INGCO DP133505 packaging showing specifications. This image displays the product packaging, which includes a table of technical specifications and features, such as power, voltage, and speed settings.

4.3 Drilling Procedure

1. **Secure Workpiece:** Place the workpiece on the work table and clamp it firmly to prevent rotation during drilling.
2. **Adjust Table Height:** Adjust the work table height so the drill bit can pass through the workpiece without hitting the

table.

- 3. **Set Depth Stop:** Adjust the depth stop to the desired drilling depth.
- 4. **Start Motor:** Turn on the drill press using the power switch.
- 5. **Begin Drilling:** Slowly lower the drill bit into the workpiece using the feed handles. Apply steady, even pressure.
- 6. **Clear Chips:** Periodically raise the drill bit to clear chips, especially when drilling deep holes.
- 7. **Finish Drilling:** Once the desired depth is reached, raise the drill bit completely and turn off the motor.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your drill press.

- **Cleaning:** After each use, clean the drill press to remove dust, chips, and debris. Use a brush or vacuum; never use compressed air directly on moving parts.
- **Lubrication:** Periodically apply light machine oil to moving parts such as the column, spindle, and quill.
- **Belt Tension:** Check the drive belt tension regularly. Adjust if too loose or too tight according to the manufacturer's guidelines (usually found under the top cover).
- **Chuck Maintenance:** Keep the chuck jaws clean and free of debris to ensure proper grip on drill bits.
- **Power Cord:** Inspect the power cord for any damage or fraying. Replace immediately if damaged.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill press does not start	No power, faulty switch, motor issue	Check power connection, circuit breaker. Inspect power switch. If motor issue, contact service.
Excessive vibration	Loose components, unbalanced drill bit, worn bearings	Tighten all fasteners. Ensure drill bit is properly seated and not bent. Inspect bearings for wear.
Drill bit binds or stalls	Dull drill bit, incorrect speed, excessive feed pressure, workpiece not secured	Replace or sharpen drill bit. Adjust speed for material. Reduce feed pressure. Secure workpiece firmly.
Inaccurate drilling	Loose chuck, loose column/table, worn drill bit	Ensure chuck is tight. Tighten column and table locking mechanisms. Use a sharp, appropriate drill bit.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	DP133505
Voltage	220-240V ~ 50 Hz
Power Consumption	350 W
Spindle Speed Settings	5 speeds
No-load Speed	580-2650 RPM
Maximum Drilling Diameter	13 mm
Column Diameter	46 mm

Feature	Specification
Table Size	160 x 160 mm
Base Size	314 x 200 mm
Net Weight	19 kgs
Material	Brass, Steel
Included Components	1 x Bench Drill

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Ingco website. Keep your purchase receipt as proof of purchase.

Manufacturer: INGCO

Importer: Ingco

For further assistance, you may contact Ingco customer service through their official channels.

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