GENERAL

alinco dr 135 manual

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Introduction

When it comes to precision machining, the **Alinco DR 135** is a standout choice for both hobbyists and professionals alike. This compact, yet powerful drill press offers a blend of durability, versatility, and user friendly features that make it an indispensable tool in workshops around the world. However, to unlock the full potential of this machine, having a detailed **Alinco DR 135 manual** is essential. This guide will walk you through every aspect of the manual, from assembly and safety to advanced settings and troubleshooting, ensuring you can operate the DR 135 with confidence and efficiency.

Understanding the Alinco DR 135: An Overview

Key Specifications

- Maximum spindle speed: 5,000 rpm
- Maximum drilling depth: 200 mm
- Table size: 350 mm × 250 mm
- Power source: 220 V / 50 Hz AC
- Weight: 30 kg (without accessories)

The DR 135's compact footprint does not compromise its performance. With a robust spindle motor and a sturdy cast iron table, it delivers consistent speed and torque, making it suitable for drilling, tapping, and even light milling operations.

Why a Manual Matters

While the machine's intuitive design reduces the learning curve, the **Alinco DR 135 manual** provides critical information that goes beyond what can be gleaned from trial and error. It covers:

1. Safety protocols to prevent accidents.
2. Detailed assembly instructions for first time users.
3. Calibration procedures to maintain precision.
4. Maintenance schedules that extend the machine's lifespan.
5. Problem solving tips for common issues.

Having a reliable manual at hand ensures that every user can operate the DR 135 safely and effectively.

Getting Started: Assembly and Setup

Unpacking the Package

When you receive the Alinco DR 135, it typically comes in a sealed box with the following components:

- Drill press unit (spindle, table, base)
- Power cord and plug
- Spindle guard and safety latch
- Adjustment screws and tool holders
- Instruction booklet (the Alinco DR 135 manual)

- Warranty card and registration form

Before proceeding, inspect each item for any shipping damage. If you notice scratches or dents, contact the supplier immediately.

Step by Step Assembly

1. Position the base: Place the machine on a level, vibration free surface. Align the base with the table legs.
2. Secure the table: Tighten the set screws on the table's corners. Ensure the table is flush with the base.
3. Attach the spindle: Align the spindle shaft with the table's spindle mount. Tighten the lock nut using a wrench.
4. Install the spindle guard: Slide the guard onto the spindle shaft and secure it with the provided latch. This protects users from accidental contact with the rotating part.
5. Connect the power cord: Plug the power cable into a grounded outlet. Verify that the outlet matches the voltage and frequency specifications.
6. Test the machine: Turn on the drill press, engage the speed control, and ensure the spindle rotates smoothly. If you hear unusual noises, refer to the troubleshooting section.

Following these steps carefully will guarantee a stable and safe operation of the DR 135.

Operating the Alinco DR 135: A Detailed Guide

Speed Control and Torque Settings

The DR 135 features a variable speed control lever that allows you to adjust the spindle speed from 0 to 5,000 rpm. For delicate operations, such as drilling fine holes in aluminum, set the speed lower (e.g., 1,200 rpm). For heavier materials like steel, increase the speed to maximize torque and reduce cutting time.

Using the Table and Workholding Devices

The machine's table can be leveled with the built in spirit level. Use the clamp system to secure the workpiece, and adjust the table height with the threaded screw. For larger jobs, attach a V slot or a collet holder to the table.

Drilling Procedures

1. Mark the drilling point: Use a center punch to create a small indentation that guides the drill bit.
2. Choose the right bit: For wood, use a standard twist bit. For metal, select a cobalt or HSS (High Speed Steel) bit with a suitable point angle.
3. Set the drill depth: Adjust the depth stop on the spindle to avoid over drilling.
4. Start drilling: Engage the speed control, then press the foot pedal or lever to move the drill bit into the material. Maintain a steady, moderate pressure.
5. Cool and flush: For metal drilling, periodically withdraw the bit to clear chips and apply a lubricant if needed.

Tapping and Threading

The DR 135 can perform tapping operations up to 2,000 rpm. Attach a tap holder to the table, secure the tap, and use the foot pedal to feed the tap. Ensure the tap is aligned with the pre drilled hole to avoid cross threading.

Maintenance and Care: Keeping Your DR 135 in Peak Condition

Regular Cleaning Routine

Dust and debris can impair the machine's performance. After each use, wipe down the table, spindle, and guard with a soft cloth. For stubborn grime, use a mild detergent solution and a soft brush.

Lubrication Schedule

Apply a light machine oil to the spindle bearings every month. This reduces friction and prolongs bearing life. Avoid over lubrication, which can attract dust.

Inspecting Wear and Tear

- Check the spindle guard for cracks.
- Inspect the table surface for scratches.
- Verify that all screws and bolts are tight.
- Listen for unusual noises during operation.

Addressing minor issues early prevents major breakdowns.

Replacing Parts

Should you need to replace a part, refer to the parts list in the **Alinco DR 135 manual**. Common replacements include:

- Spindle guard
- Table clamp
- Speed control lever
- Foot pedal assembly

Purchase genuine Alinco components to maintain compatibility and warranty coverage.

Troubleshooting Common Issues

Spindle Won’t Spin

Check the following:

- Power supply is connected and functioning.
- Speed control lever is in the “ON” position.
- There is no obstruction in the spindle.
- Spindle bearings are not seized.

If the problem persists, consult the technical support section of the manual.

Unusual Vibrations or Noise

Vibrations may indicate:

- Loose table screws.
- Imbalanced drill bit.
- Worn spindle bearings.

Tighten all fasteners and replace worn parts as needed.

Speed Control Fluctuations

Fluctuations can arise from:

- Power supply instability.
- Faulty speed control switch.
- Electrical interference.

Use a stable power source and replace the speed control switch if required.

Frequently Asked Questions (FAQ)

What is the maximum drilling depth of the Alinco DR 135?

The machine can drill up to 200 mm, but this limit can be extended with a drill guide or an extended spindle.

Can I use the DR 135 for light milling?

Yes, the DR 135's robust spindle motor and stable table make it suitable for light milling tasks such as shaping or creating shallow cuts.

How long is the warranty on the Alinco DR 135?

Typically, Alinco offers a two year warranty covering manufacturing defects. Check the warranty card for specific terms.

Is it possible to upgrade the speed range?

While the machine's design supports up to 5,000 rpm, upgrading the speed range would require replacing the spindle motor and speed control unit, which is not recommended for most users.

Where can I find spare parts for my Alinco DR 135?

Authorized Alinco distributors and official online stores provide genuine parts. Always verify the part number with the manual before purchasing.

Where to Purchase the Alinco DR 135 Manual

For the most accurate and up to date information, obtain the manual directly from Alinco's official website or from a reputable distributor. Many retailers offer a PDF download that you can print at home. If you prefer a physical copy, most online marketplaces provide hard copies for purchase.

Benefits of Using the Official Manual

- Accurate diagrams and schematics.
- Comprehensive safety guidelines.
- Up to date troubleshooting tips.
- Warranty and registration information.

Conclusion

The **Alinco DR 135** is a versatile, reliable tool that can elevate the productivity of any workshop. However, to fully harness its capabilities, a thorough understanding of its operation, maintenance, and safety protocols is essential. By following the guidance in the **Alinco DR 135 manual**, users can ensure safe operation, prolong the machine's lifespan, and achieve precise results in their projects. Whether you're a seasoned machinist or a hobbyist, investing time in learning the manual will pay dividends in performance, reliability, and peace of mind.

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