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## ARROWMAX AM-199974

# AM ARROWMAX Mini Electric Drill SDS PRO PLUS User Manual

Brand: ARROWMAX | Model: AM-199974

Your comprehensive guide to operating and maintaining your SDS PRO PLUS Mini Electric Drill.

## 1. INTRODUCTION

The ARROWMAX SDS PRO PLUS Mini Electric Drill is a versatile and precise tool designed for intricate tasks, model making, DIY crafts, and more. Featuring an OLED display, LED lights, gyroscopic motion control, and a compact design, it offers both portability and high performance. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal use of your device.



Figure 1.1: The ARROWMAX SDS PRO PLUS Mini Electric Drill with its accessories, including the storage case, various drill bits, and the benchtop drill press.

## 2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- (1x) SDS PRO PLUS Mini Electric Drill
- (1x) Benchtop Drill Press
- (1x) Storage Case for SDS PRO PLUS
- (10x) HSS Drill Bits (sizes ranging from 0.6mm to 2.2mm with 2.35mm diameter shaft)
- (1x) USB-C Charging Cable
- (1x) User Manual (this document)



- SDS PRO ELECTRIC DRILL
- CASE (FOR SDS)
- STAND (FOR SDS)
- 10 DRILL BITS
- BENCHTOP DRILL STAND (FOR SDS PLUS)

Figure 2.1: A visual representation of the complete package contents, showing the drill, its dedicated case, the benchtop stand, and the set of 10 drill bits.

### 3. SETUP AND ASSEMBLY

#### 3.1 Charging the Device

Before first use, fully charge the SDS PRO PLUS Mini Electric Drill. Connect the provided USB-C cable to the charging port on the drill and to a compatible USB power source. The OLED display will indicate the charging status.

#### 3.2 Inserting Drill Bits

The drill features a keyless chuck for easy bit changes. To insert a drill bit:

1. Grip the chuck firmly and rotate it counter-clockwise to open the jaws.
2. Insert the desired 2.35mm diameter drill bit into the chuck.
3. Rotate the chuck clockwise to tighten the jaws securely around the drill bit. Ensure the bit is centered and held firmly.



Every 2.35mm diameter bits  
in the market fits to SDS.

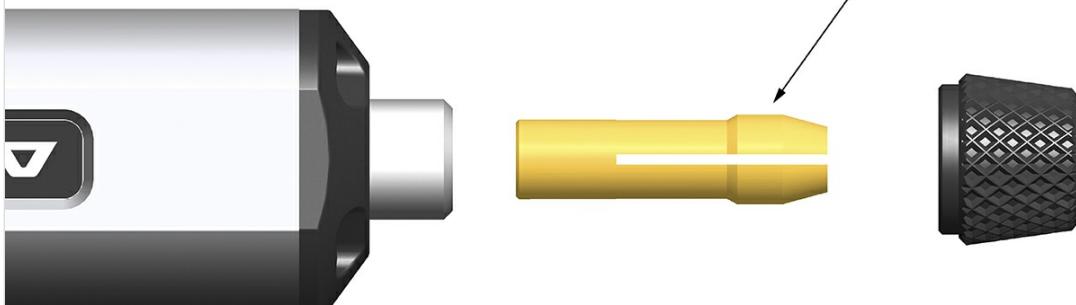


Figure 3.1: Illustration detailing the process of inserting a drill bit into the keyless chuck, highlighting the 2.35mm diameter compatibility.

### 3.3 Assembling the Benchtop Drill Press

The industrial-grade benchtop drill press provides enhanced stability and precision for drilling tasks. Follow the instructions provided with the drill press for proper assembly. Once assembled, securely mount the SDS PRO PLUS Mini Electric Drill into the designated holder on the press.

# ROTATE FORWARD/REVERSE WITH BENCHTOP DRILL PRESS



Figure 3.2: The mini electric drill securely mounted on its benchtop press, demonstrating its use for precise drilling operations.

## 3.4 Unboxing and Initial Setup Video

For a visual guide on unboxing and initial setup, please refer to the official video below:

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Video 3.1: An unboxing and initial setup guide for the SDS PRO PLUS Mini Electric Drill, demonstrating how to unpack the product and prepare it for first use.

## 4. OPERATING INSTRUCTIONS

## 4.1 Powering On/Off and Basic Operation

Press the power button (usually located on the side of the drill) to turn the device on or off. The OLED display will activate upon power-on, showing battery status and current mode.



Figure 4.1: The power button on the drill, indicating its simple one-key operation for turning the device on and off.

## 4.2 Speed and Direction Control

The SDS PRO PLUS offers 5 variable modes for precise control:

- **Mode A (Smart Motion Control):** Speed is adjustable by the angle of your wrist rotation. The greater the angle, the higher the speed. Direction (forward/reverse) is also controlled by body sensing (twist left for reverse, twist right for forward).
- **Mode D (Max Operating Speed):** Provides maximum operating speed. Direction is controlled by body sensing.
- **Mode 1 (400 RPM):** Fixed speed of 400 revolutions per minute. Press the single button to switch direction (clockwise/anti-clockwise).
- **Mode 2 (550 RPM):** Fixed speed of 550 revolutions per minute. Press the single button to switch direction (clockwise/anti-clockwise).
- **Mode 3 (700 RPM):** Fixed speed of 700 revolutions per minute. Press the single button to switch direction (clockwise/anti-clockwise).

To switch between modes, refer to the OLED display and the drill's controls. The OLED display shows the current speed setting and drilling direction.

Operating status  
clockwise



Operating status  
anti-clockwise



Speed setting



Speed adjustable by the angle of your wrist rotation. The more angle, the higher the speed.



Maximum operating speed. Smart motion control - clockwise/ anti-clockwise



**400rpm.** Press the switch to rotate clockwise/ anti-clockwise. Press again to stop operation.



**550rpm.** Press the switch to rotate clockwise/ anti-clockwise. Press again to stop operation.



**700rpm.** Press the switch to rotate clockwise/ anti-clockwise. Press again to stop operation.



Figure 4.2: The OLED display on the drill, illustrating how operating status and speed settings are shown, including clockwise and anti-clockwise indicators.

Figure 4.3: Visual guide to the smart motion control feature, demonstrating how twisting the drill to the left or right controls the drilling direction.

#### 4.3 Using LED Lights

The drill is equipped with four shadow-less LED lights around the chuck. These lights automatically illuminate the drilling area, providing clear visibility and improving precision, especially in low-light conditions.



Figure 4.4: The drill's chuck area with its four integrated LED lights, designed to illuminate the workspace for enhanced visibility.

## 5. MAINTENANCE

### 5.1 Cleaning

After each use, wipe down the drill and benchtop press with a clean, dry cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners. Ensure the chuck area is free of obstructions.

### 5.2 Drill Bit Care

Keep drill bits clean and sharp. Store them in the provided case to prevent damage and loss. Replace dull or damaged bits to maintain drilling performance and prevent strain on the motor.

### 5.3 Storage

Store the SDS PRO PLUS Mini Electric Drill and its accessories in a dry, cool place, away from direct sunlight and extreme temperatures. Use the provided aluminum case for secure storage and transport.

## 6. TROUBLESHOOTING

If you encounter issues with your SDS PRO PLUS Mini Electric Drill, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Drill does not turn on.	Low battery; Power button not pressed correctly.	Charge the drill fully. Ensure the power button is pressed firmly.
Drill bit not rotating or rotating slowly.	Chuck not tightened; Low battery; Incorrect speed mode selected; Obstruction.	Tighten the chuck. Recharge the battery. Select a higher speed mode. Check for and remove any obstructions.
OLED display is blank.	Device is off; Low battery.	Press the power button to turn on. Charge the drill.
Motion control (Mode A/D) not responding.	Incorrect mode selected; Sensor obstruction.	Ensure Mode A or D is selected. Clean the drill body to ensure sensors are clear.

If the problem persists after attempting these solutions, please contact customer support.

## 7. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	ARROWMAX
Model Number	AM-199974
Power Source	Battery Powered
Battery Type	Lithium Ion (1 included)
Battery Capacity	500mAh / 1.5 Amp Hours
Voltage	4 Volts (DC)
Amperage	1.5 Amps
Maximum Rotational Speed	700 RPM (Variable up to 700 RPM)
Number of Speeds	5 (A, D, 1, 2, 3)
Maximum Chuck Size	2.35 Millimeters (3/32-Inch)
Special Features	Reverse Rotation, Variable Speed, OLED Display, LED Lights, Gyroscopic Control
Product Dimensions (Drill)	Approx. 10.75" L x 4.75" W x 2.03" H
Item Weight (Drill)	55 Grams / 1.94 ounces
Drill Type	Drill Press (with included attachment)
Drilling Capacity (Wood)	7.2 Inches

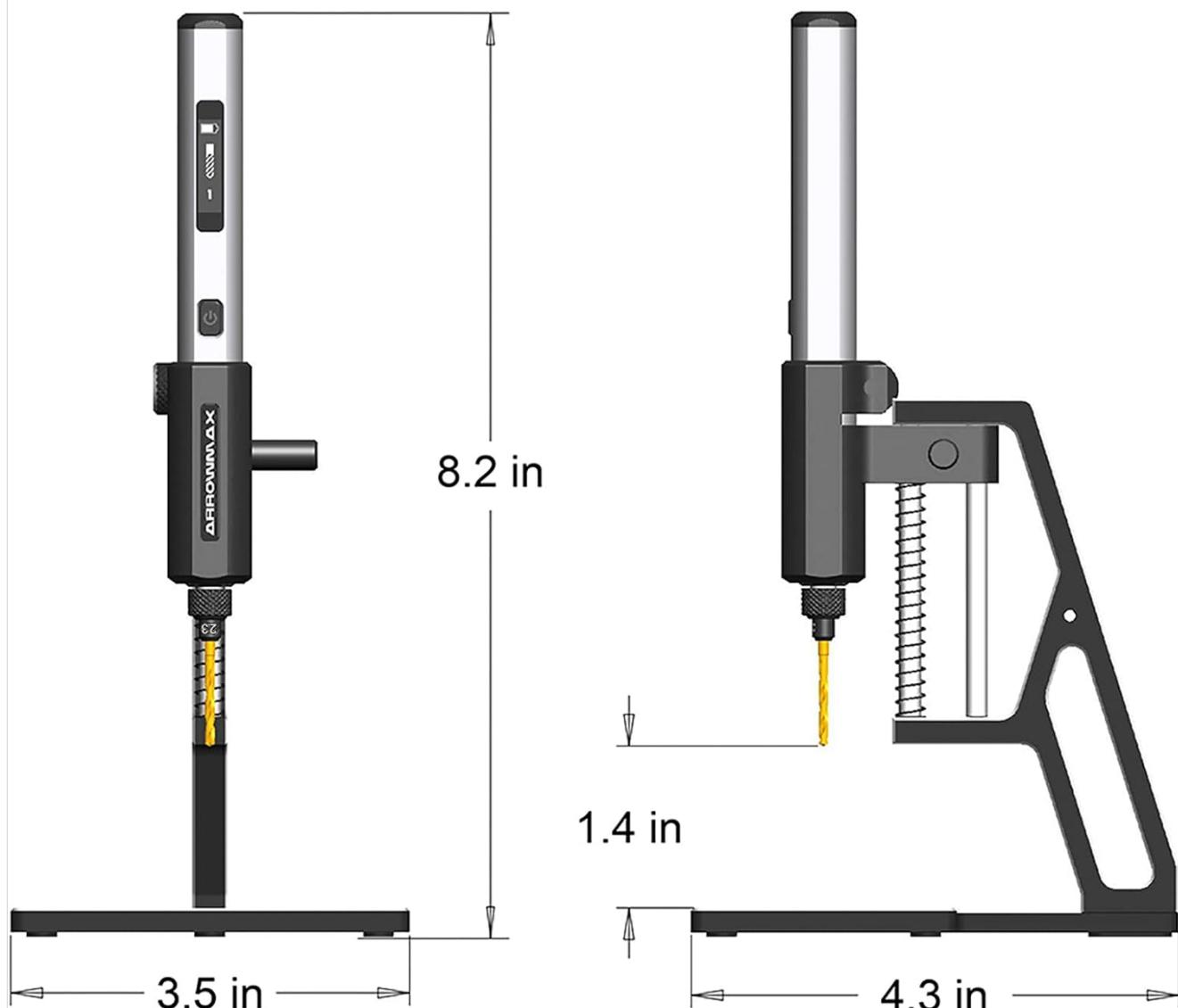


Figure 7.1: Detailed dimensions of the SDS PRO PLUS drill and its accompanying benchtop press, indicating its compact size.

## 8. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before operating the SDS PRO PLUS Mini Electric Drill. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always wear appropriate personal protective equipment, such as safety glasses, when operating the drill.
- Ensure your work area is well-lit and clear of clutter.
- Secure the workpiece before drilling to prevent movement.
- Do not force the drill; let the tool do the work.
- Keep hands and fingers away from the rotating drill bit.
- Disconnect the power source before changing accessories or performing maintenance.
- Do not expose the drill to rain or wet conditions.
- Store the drill out of reach of children.

## 9. WARRANTY AND SUPPORT

Specific warranty information for the ARROWMAX SDS PRO PLUS Mini Electric Drill is typically provided with your

purchase documentation or on the manufacturer's official website. Please retain your proof of purchase for warranty claims. For technical support, troubleshooting assistance, or to inquire about replacement parts, please visit the official ARROWMAX website or contact their customer service department. The website address can often be found on the product packaging or in the included documentation.

Based on product packaging, you may find support information at: [arrowmax-rc.com](http://arrowmax-rc.com)

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