ARROWMAX 230313

AM ARROWMAX SGS MAX Smart Engraving Pen User Manual

Model: 230313

Brand: ARROWMAX

1. INTRODUCTION

Thank you for choosing the AM ARROWMAX SGS MAX Smart Engraving Pen. This versatile tool is designed for precision engraving and polishing on a wide range of materials, including metal, wood, glass, and plastic. Featuring a hollow cup motor, OLED display, and magnetic charging, the SGS MAX offers an intuitive and powerful experience for all your crafting needs. Please read this manual thoroughly before use to ensure proper operation and maintenance.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses, to protect your eyes from debris.

- Ensure your workspace is well-lit and clear of obstructions.

- Keep the engraving pen and its accessories out of reach of children and pets.

- Do not operate the tool near flammable liquids or gases.

- Avoid touching the bit during or immediately after operation, as it may be hot.

- Do not immerse the engraving pen in water or any other liquid.

- Use only approved accessories and bits with the SGS MAX.

- If the tool shows signs of damage or malfunction, discontinue use immediately and contact customer support.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:
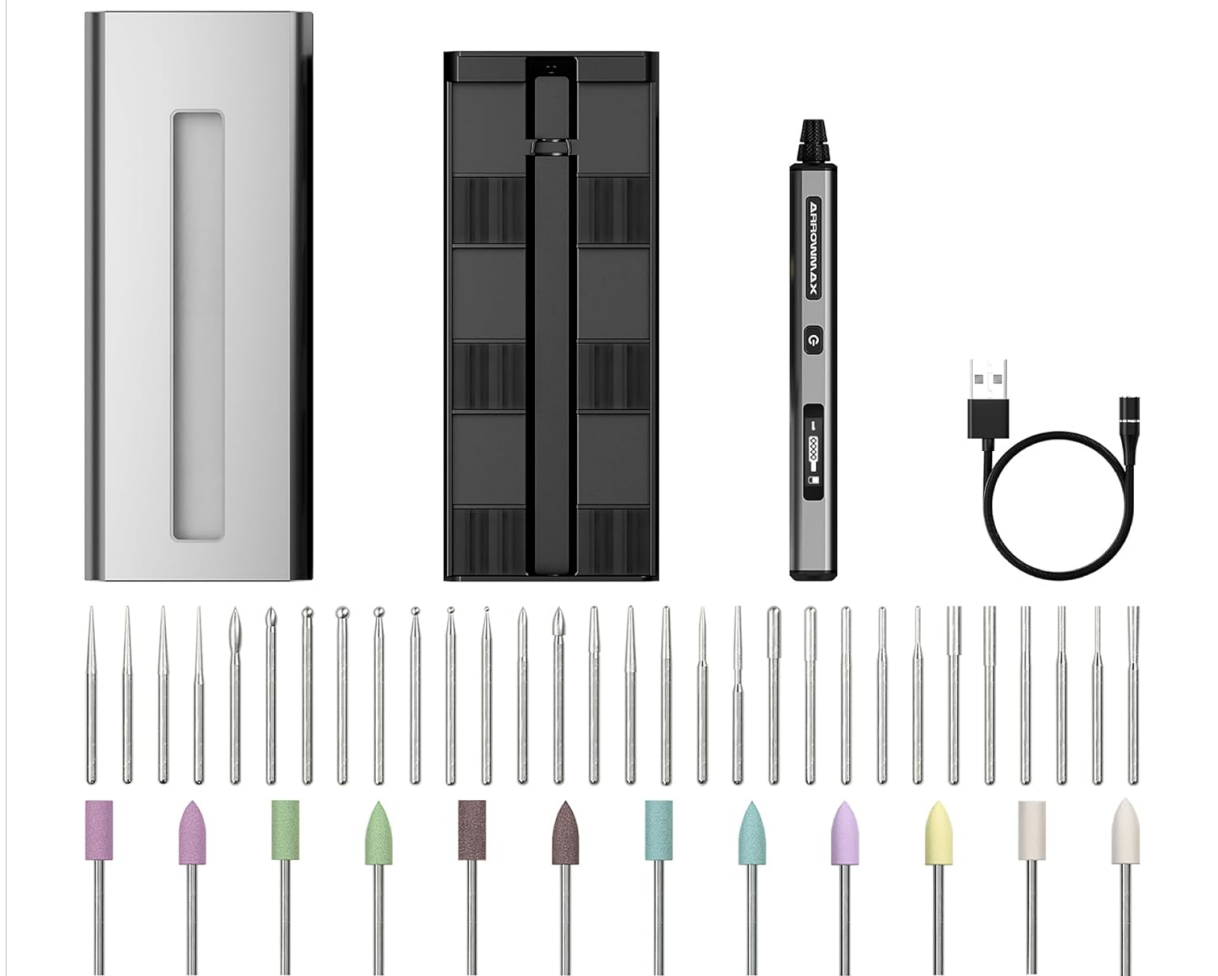
SGS MAX INCLUDED ITEMS

Image: All items included in the SGS MAX package, neatly arranged.

- AM ARROWMAX SGS MAX Smart Engraving Pen
- Aluminum Storage Case
- Magnetic USB-C Charging Cable
- 30 Engraving Bits
- 12 Polishing Bits
- Quick Start Guide (Physical or Digital)

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your SGS MAX engraving pen:

Image: Labeled diagram of the SGS MAX engraving pen highlighting its key parts.

- **Chuck:** Holds the engraving/polishing bits securely.

- **Aluminium Alloy Body:** Durable and ergonomic design for comfortable grip.

- **Power Button:** Turns the device on/off.

- **Gear Adjustment Button:** Cycles through speed modes and adjusts direction.

- **Status Display (OLED):** Shows battery status, selected mode, and rotation direction.

- **Magnetic Charging Port:** For convenient and quick charging.

Image: A comprehensive view of the 30 engraving bits and 12 polishing bits.

5. SETUP

5.1. Initial Charging

Before first use, fully charge the SGS MAX engraving pen. Connect the magnetic charging cable to the charging port on the pen and plug the other end into a USB power source (e.g., computer, wall adapter). The OLED display will indicate charging status. A full charge typically takes approximately 60 minutes.

5.2. Installing/Changing Bits

1. Ensure the engraving pen is turned off.
2. Gently unscrew the chuck counter-clockwise to loosen it.
3. Insert the desired engraving or polishing bit into the chuck. Ensure it is seated firmly.
4. Tighten the chuck clockwise until the bit is securely held. Do not overtighten.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

Press and hold the Power Button for 2 seconds to turn the engraving pen on or off. The OLED display will

illuminate upon power-on.

6.2. Adjusting Speed Modes

The SGS MAX offers 5 RPM modes for various applications:

Image: Visual representation of the five speed modes and their corresponding RPMs.

- **Mode A (Auto Sensing):** 10,000-30,000 RPM. The Smart Motion System dynamically adjusts speed based on your twist angle.
- **Mode 1 (Low):** 15,000 RPM
- **Mode 2 (Medium):** 20,000 RPM
- **Mode 3 (High):** 25,000 RPM
- **Mode 4 (Maximum):** 30,000 RPM

To cycle through the speed modes, short press the Gear Adjustment Button. The current mode will be displayed on the OLED screen.

Introducing The Customized Engraving Pen

POWERFUL
small intricate details,
toder strokes and big ideas

PORTABLE
npact and easy to carry,
≥ct for crafting anywhere.

CORDLESS
Magnetic Rechargable, with up
2hours of continuous creativity

HANDY SIZE
Compact and easy to handle,
perfect for precise, detailed wor

Image: OLED display showing battery, dynamic display, and current gear.

6.3. Changing Rotation Direction

Within each speed mode, you can toggle between forward (clockwise) and reverse (anti-clockwise) directions. Double-press the Gear Adjustment Button to switch directions. The OLED display will indicate the current rotation direction.

6.4. Using the ARROWMAX App

For enhanced control and customization, download the official ARROWMAX app from your device's app store. The app allows you to fine-tune speed settings beyond the factory presets and provides additional features.
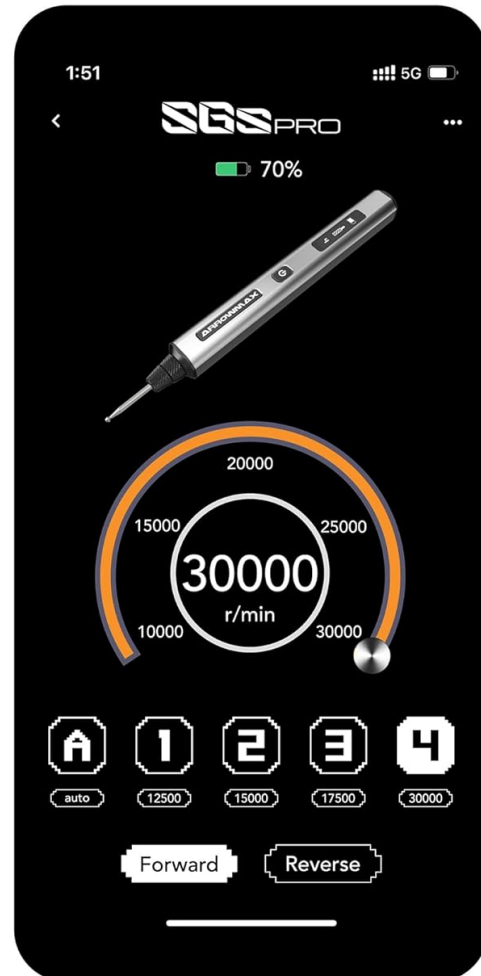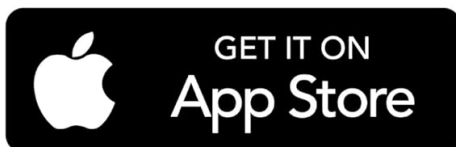
Image: ARROWMAX app interface for controlling the engraving pen.

6.5. Material Compatibility

The SGS MAX is suitable for engraving and polishing various materials:

CUSTOMISE YOUR ITEM

Image: Examples of engraving on crystal, wood, gold, and glass.

Image: Diverse materials compatible with the engraving pen, such as plastic, PCB, shell, wood, glass, leather, and stone.

Always test on a scrap piece of material first to determine the optimal speed and bit for your project.

7. MAINTENANCE

7.1. Cleaning

- After each use, gently wipe the body of the engraving pen with a soft, dry cloth.
- Remove any dust or debris from the chuck area using a small brush or compressed air.
- Do not use harsh chemicals or abrasive cleaners.

7.2. Bit Care and Storage

- Clean bits after use to remove any material residue.
- Store bits in their designated slots within the aluminum case to prevent damage and loss.
- Replace worn or damaged bits to ensure optimal performance and safety.

7.3. Battery Care

- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place when not in use for extended periods.
- Charge the battery at least once every three months to maintain its health.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pen does not turn on	Low battery; Power button not pressed correctly	Charge the pen fully; Press and hold the Power Button for 2 seconds
Bit is loose or wobbles	Chuck not tightened; Bit not inserted correctly	Ensure bit is fully inserted and chuck is tightened securely
Reduced performance/engraving quality	Worn bit; Incorrect speed setting; Material too hard	Replace bit; Adjust speed mode; Ensure material is suitable for engraving
Pen stops unexpectedly	Overload protection activated; Low battery	Reduce pressure; Charge the pen

9. SPECIFICATIONS

- **Model:** SGS MAX
- **Item Model Number:** 230313
- **Brand:** ARROWMAX
- **Motor Type:** HollowCup Motor
- **Speed Modes:** 5 (10,000-30,000 RPM, including Auto Sensing)
- **Battery:** 1 Lithium Polymer battery (included)
- **Charging:** Magnetic, 5V rechargeable
- **Included Bits:** 30 Engraving Bits, 12 Polishing Bits (Total 42)
- **Body Material:** Aluminum Alloy
- **Display:** OLED
- **Item Weight:** 13.7 ounces
- **Package Dimensions:** 8.74 x 3.07 x 1.22 inches

10. WARRANTY AND SUPPORT

The AM ARROWMAX SGS MAX Smart Engraving Pen comes with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official ARROWMAX website. If you encounter any issues or require technical assistance, please contact ARROWMAX customer support through their official channels or the retailer from whom you purchased the product.

For further assistance, you may visit the ARROWMAX Store on Amazon.

Related Documents - 230313

	ARROWMAX SGS PRO Smart Electric Engraving & Polishing Pen User Manual Comprehensive user manual for the ARROWMAX SGS PRO Smart Electric Engraving & Polishing Pen, detailing its features, operation, installation, and specifications. Includes information on Bluetooth connectivity, customizable modes, and maintenance.
	ARROWMAX SES MAX Smart Electric Screwdriver Pen - AM-230613 User Manual Detailed user manual for the ARROWMAX SES MAX Smart Electric Screwdriver Pen (Model AM-230613), featuring its structure, operation, storage, product parameters, and warranty information. Learn how to use this precision tool for electronics and model repairs.
	Arrowmax SES MAX Smart Electric Screwdriver Pen - User Manual & Specifications Detailed user manual and specifications for the Arrowmax SES MAX Smart Electric Screwdriver Pen, featuring a 32-bit microprocessor, OLED display, adjustable torque, and 70-piece bit set for electronics repair and assembly.
	ARROWMAX SES MINI Electric Screwdriver - User Manual and Specifications Detailed user manual for the ARROWMAX SES MINI electric screwdriver, featuring a compact design, 350mAh battery, 200r/min speed, and a 96+6 bit set for various electronic repairs. Includes operation, storage, specifications, warranty, and compliance information.
	Arrowmax SES MAX Electric Screwdriver: App Download and Connection Guide Detailed instructions for downloading the Arrowmax mobile app and connecting your SES MAX electric screwdriver via Bluetooth. Learn to customize torque settings (up to 4.0 kgf.cm) and LED lights for precision tasks.
	Arrowmax SES MAX App Download and Connection Guide Step-by-step instructions to download the Arrowmax app, connect your SES MAX device via Bluetooth, and customize torque and LED settings for your smart tool.