ARROWMAX SGS MAX (AM-199213-24)

ARROWMAX SGS MAX Mini Smart Electric Engraving Pen User Manual

Model: SGS MAX (AM-199213-24)
Brand: ARROWMAX

INTRODUCTION

The ARROWMAX SGS MAX Mini Smart Electric Engraving Pen is a precision tool designed for engraving and polishing various materials. It features a HollowCup motor, OLED display, magnetic charging, and intelligent motion control, offering versatility for tasks ranging from grinding and polishing to carving and engraving on materials such as metal, wood, crystal, and glass.

Image: The ARROWMAX SGS MAX Engraving Pen shown with its aluminum carrying case, various engraving and polishing bits, USB charging cable, and a smartphone displaying the companion app interface.

PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components of your SGS MAX engraving pen and the included accessories.

SGSMAX

Magnetic Charging Port
Easier to charge your SGS.

Status Display
Displaying the battery status, selected mode and rotate direction.

Power Button
Only One–Key to finish your selections and works.

Aluminium Alloy Body
CNC–Aluminium, adopts a square shape with a circular arc surface, giving you better control.

Chuck
Changing the bit easily without using any other tools.

Image: A detailed diagram of the ARROWMAX SGS MAX Engraving Pen, highlighting its key features: Magnetic Charging Port, Status Display (showing battery, mode, and direction), Aluminium Alloy Body, Power Button, and Chuck.

Included Components:

- 1 x ARROWMAX SGS MAX Engraving Pen
- 30 x Engraving Bits
- 12 x Polishing Bits
- 1 x Storage Bag
- 1 x USB Charging Cable
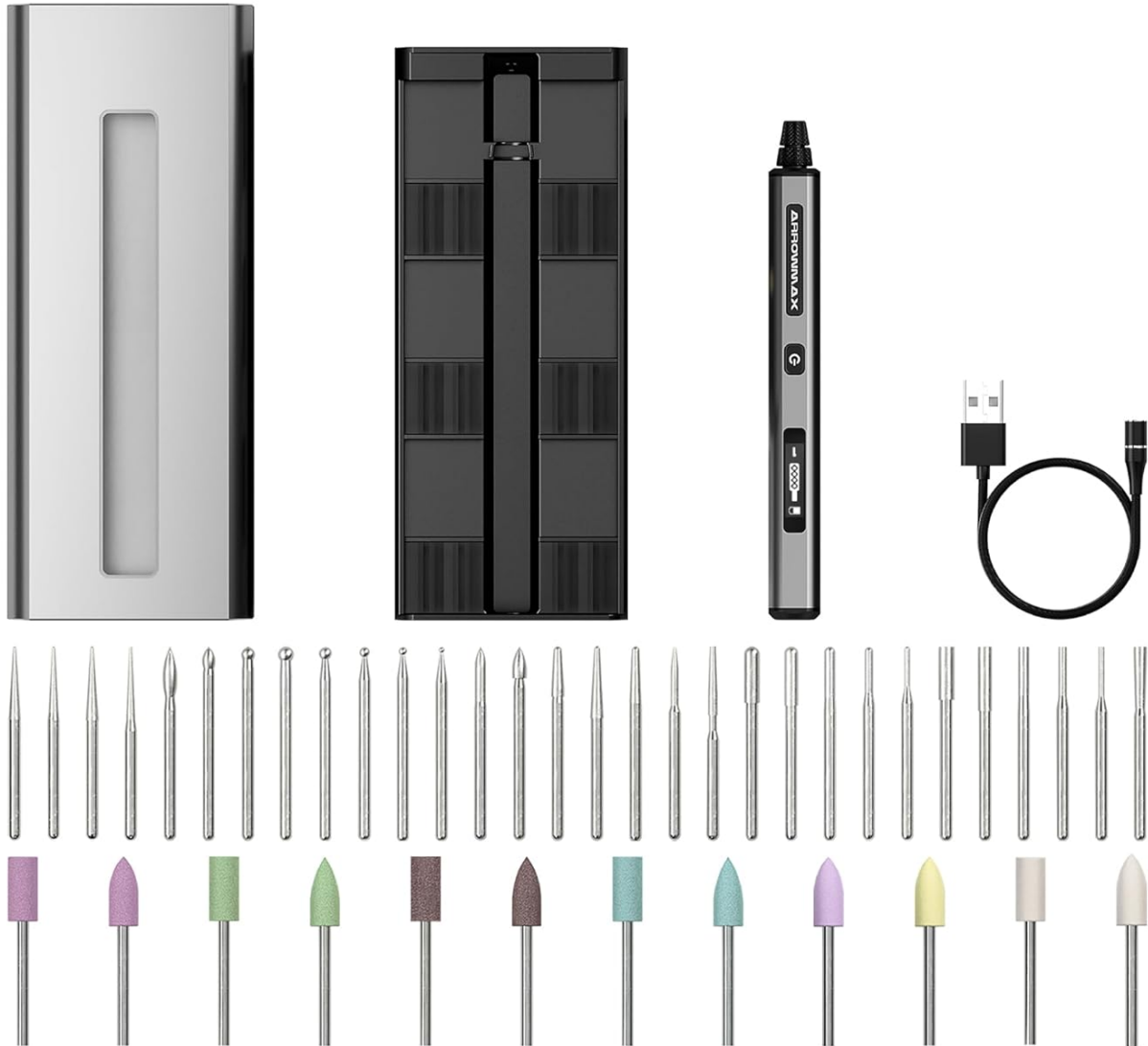- 1 x User Manual

SGS MAX INCLUDED ITEMS

Image: A complete set of items included with the SGS MAX, featuring the engraving pen, its aluminum case, USB cable, and all 30 engraving bits and 12 polishing bits laid out.

30 ENGRAVING & 12 POLISHING BITS

Image: A close-up view of the 30 distinct engraving bits and 12 polishing bits that come with the SGS MAX, showcasing their various shapes and sizes for different applications.

SETUP

1. Initial Charging

Before first use, fully charge the engraving pen. Connect the magnetic charging cable to the pen's magnetic charging port and plug the USB end into a compatible USB power adapter (not included). The OLED display will indicate charging status. A full charge ensures optimal performance and battery life.

2. Attaching/Changing Bits

1. Ensure the engraving pen is turned off.
2. Gently insert the desired engraving or polishing bit into the chuck at the tip of the pen.
3. Twist the chuck clockwise to secure the bit firmly in place. Do not overtighten.
4. To remove a bit, twist the chuck counter-clockwise and pull the bit out.

The chuck is designed for easy bit changes without requiring additional tools.

OPERATING INSTRUCTIONS

1. Power On/Off

Press and hold the Power Button located on the pen's body to turn the device on or off. The OLED display will illuminate upon activation.

2. Adjusting Speed Modes

The SGS MAX offers 5 adjustable speed modes to suit different tasks and materials. Briefly press the Power Button to cycle through the modes:

- **A (Auto Sensing):** 10,000 - 30,000 RPM (Automatically adjusts speed based on pressure/angle).
- **1 (Low):** 15,000 RPM
- **2 (Medium):** 20,000 RPM
- **3 (High):** 25,000 RPM
- **4 (Maximum):** 30,000 RPM

Image: A visual representation of the five adjustable speed modes (A, 1, 2, 3, 4) and their corresponding RPM ranges, displayed next to the engraving pen's OLED screen.

3. Forward/Reverse Direction

The pen supports both forward and reverse rotation. Use the companion app to switch directions for each mode, providing greater control and flexibility for various engraving and polishing techniques.

4. Using the ARROWMAX App

Enhance your control and customization by connecting your SGS MAX to the ARROWMAX app. The app allows for precise speed adjustments beyond the factory settings and enables switching between forward and reverse directions.

- Download the 'Arrowmax' app from Google Play Store or Apple App Store.
- Ensure Bluetooth is enabled on your smartphone.
- Open the app and follow the on-screen instructions to pair with your SGS MAX.
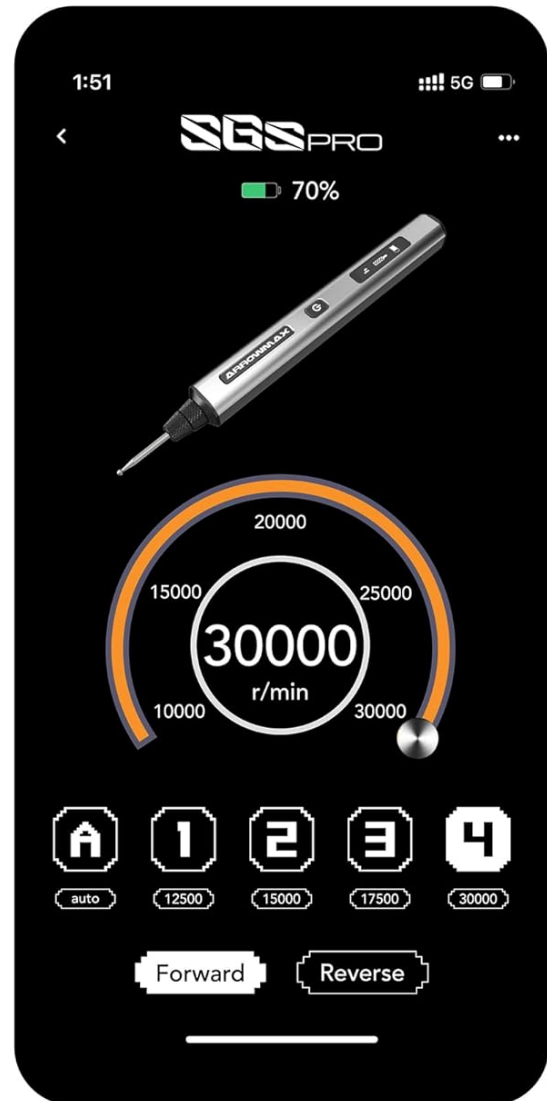
Image: A screenshot of the ARROWMAX app interface on a smartphone, showing battery percentage, a dial for RPM adjustment (up to 30,000 r/min), and buttons for selecting modes (A, 1, 2, 3, 4) and switching between Forward and Reverse rotation.

5. Application Examples

The SGS MAX is suitable for customizing and working on a variety of materials:

- **Crystal:** For delicate etching and polishing.
- **Wood:** For detailed carving and surface finishing.
- **Gold:** For fine engraving and polishing of precious metals.
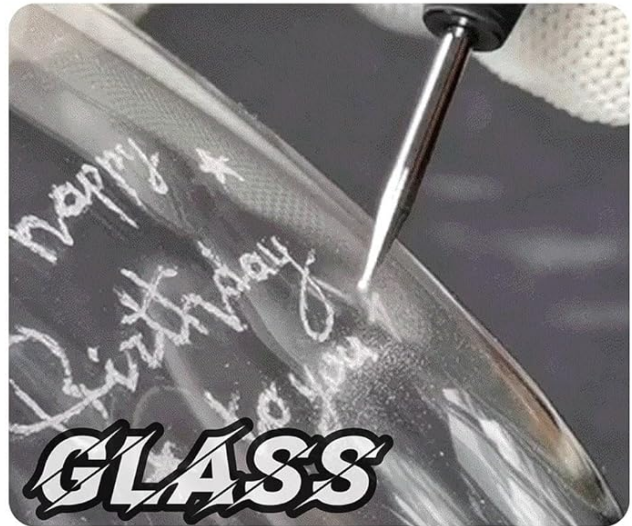- **Glass:** For personalized designs and intricate patterns.

Image: A collage showing the SGS MAX being used on different materials: polishing a crystal, engraving wood, polishing a gold ring, and engraving glass with text.

6. General Usage Tips

- Always wear appropriate safety gear, such as eye protection, when operating the tool.
- Select the correct bit and speed mode for the material and task at hand.
- Apply light, consistent pressure. Let the tool do the work to avoid overheating or damaging the material/bit.
- For polishing, use the designated polishing bits and appropriate polishing compounds.
- For engraving, practice on scrap material before working on your final piece.

Image: A four-panel image demonstrating SGS features: Polishing a small object, Model Making with precision, Matching Multiple Grinding Types with various bits, and One Box Storage for organized accessories.

MAINTENANCE

1. Cleaning

After each use, wipe down the engraving pen with a soft, dry cloth to remove dust and debris. For stubborn grime, a slightly damp cloth can be used, but ensure the device is completely dry before storage or next use. Do not use harsh chemicals or abrasive cleaners.

2. Bit Care

Inspect bits regularly for wear or damage. Replace worn-out bits to maintain precision and prevent damage to your work. Clean bits as needed to remove accumulated material.

3. Storage

Store the engraving pen and its accessories in the provided aluminum case or storage bag in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the pen is fully charged before long-term storage to preserve battery health.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your SGS MAX engraving pen.

- **Pen does not turn on:** Ensure the battery is charged. Connect the pen to the charger and allow it to charge for at least 30 minutes before attempting to power on again.
- **Bit is loose or wobbles:** Ensure the bit is fully inserted into the chuck and the chuck is tightened securely.
- **Reduced performance/speed:** Check the selected speed mode. Ensure the battery is sufficiently charged. Clean the bit and the chuck area to remove any obstructions.
- **App connection issues:** Ensure Bluetooth is enabled on your device and the pen is powered on. Try restarting both the pen and your smartphone.

If you experience issues not covered here, please refer to the contact information for customer support.

SPECIFICATIONS

Manufacturer	Freemax Technology Company Limited (IMPORT)
Item Model Number	AM-199213-24
Style	SGS MAX
Color	Black
Material	Aluminum
Power Source Type	Battery Powered
Voltage	5 Volts
Battery Type	1 Lithium-polymer (included)
Special Features	OLED Display
Maximum Rotation Speed	30,000 RPM (5 modes)
Package Dimensions	22.1 x 7.6 x 2.9 cm; 390 grams

WARRANTY AND SUPPORT

Specific warranty information for the ARROWMAX SGS MAX Engraving Pen is not provided within this manual. For details regarding warranty coverage, returns, or technical support, please contact the seller or manufacturer directly through their official channels. Please retain your proof of purchase for any warranty claims.
Spare parts availability information is not available at this time.

Related Documents

	[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 - 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 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 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.