ARROWMAX AM-199211-2

ARROWMAX SGS MINI Engraving and Polishing Pen

Model: AM-199211-2

Brand: ARROWMAX

1. PRODUCT OVERVIEW

The ARROWMAX SGS MINI rotary tool is a versatile and compact device designed for intricate tasks such as engraving, sanding, grinding, and polishing. It is suitable for various materials including resin, glass, wood, and metal components. This tool features a durable aluminum alloy body, magnetic wireless charging, and customizable speed control via a smartphone application.

The kit includes 36 popular accessories, ensuring you have the necessary attachments for a wide range of DIY projects and detailed craftsmanship. Its low-noise operation allows for creative work without causing disturbance.
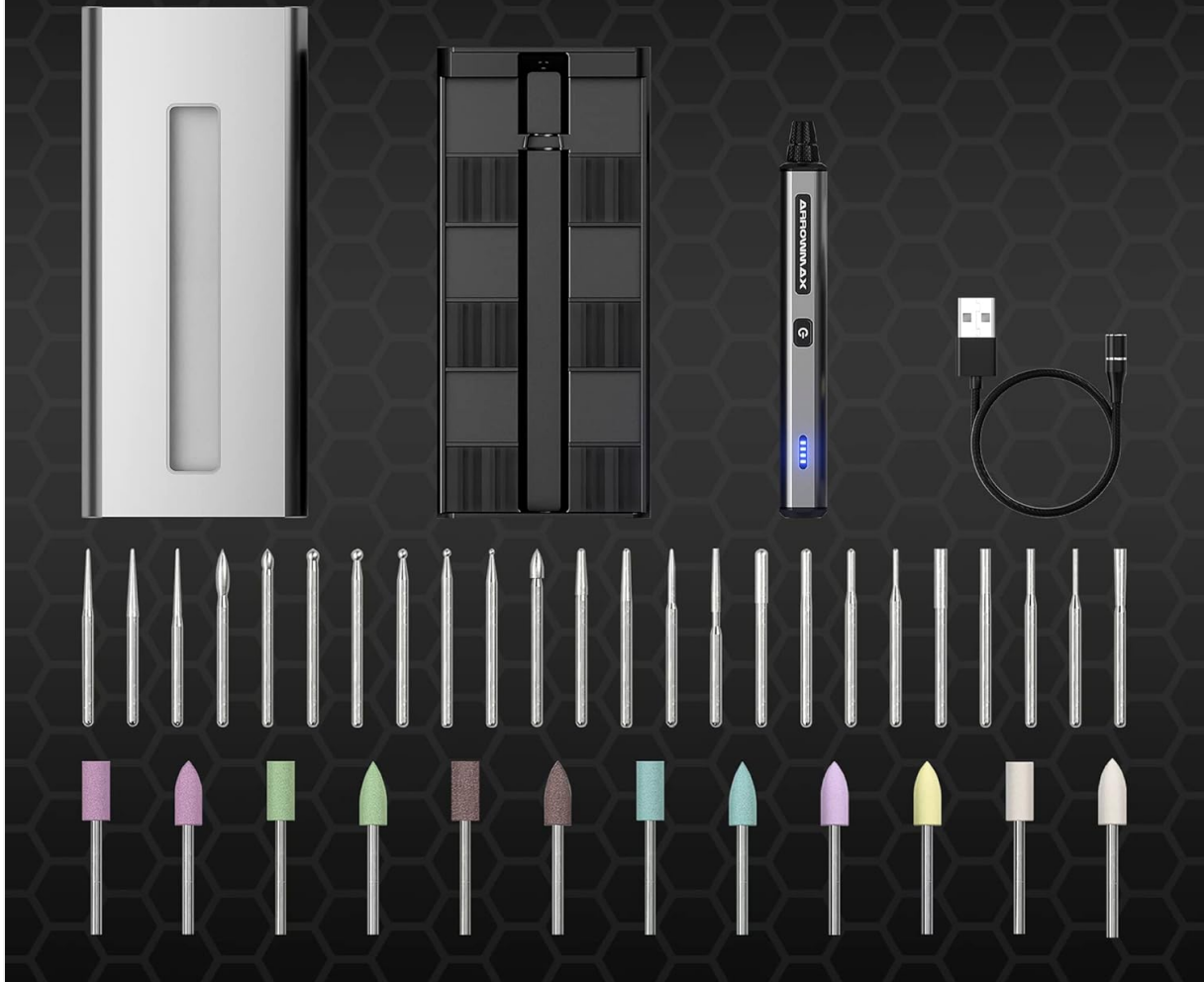
Image 1.1: All items included in the ARROWMAX SGS MINI kit, featuring the rotary tool, magnetic charging case, USB cable, and 36 various engraving and polishing bits.

2. SETUP

2.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the product contents are present and undamaged. The package should contain the ARROWMAX SGS MINI rotary tool, a magnetic charging case, a USB charging cable, and 36 assorted engraving and polishing bits.

2.2 Charging the Device

The ARROWMAX SGS MINI is equipped with a 4V rechargeable lithium-ion battery. For optimal performance, fully charge the device before first use.

1. Connect the USB charging cable to the magnetic charging port on the tool.
2. Connect the other end of the USB cable to a compatible USB power adapter (not included) or a computer USB port.
3. The working status indicator lights will show the charging progress. A full charge provides up to 90 minutes of continuous use.

Image 2.1: Detailed view of the ARROWMAX SGS MINI, highlighting the magnetic charging port, power button, working status indicator, aluminum alloy body, and chuck.

2.3 Installing/Changing Bits

The tool features a chuck for easy bit changes without requiring additional tools.

1. Ensure the tool is powered off before changing any bits.

2. Unscrew the chuck collar counter-clockwise to loosen it.

3. Insert the desired engraving or polishing bit into the chuck.

4. Tighten the chuck collar clockwise until the bit is securely held in place. Do not overtighten.
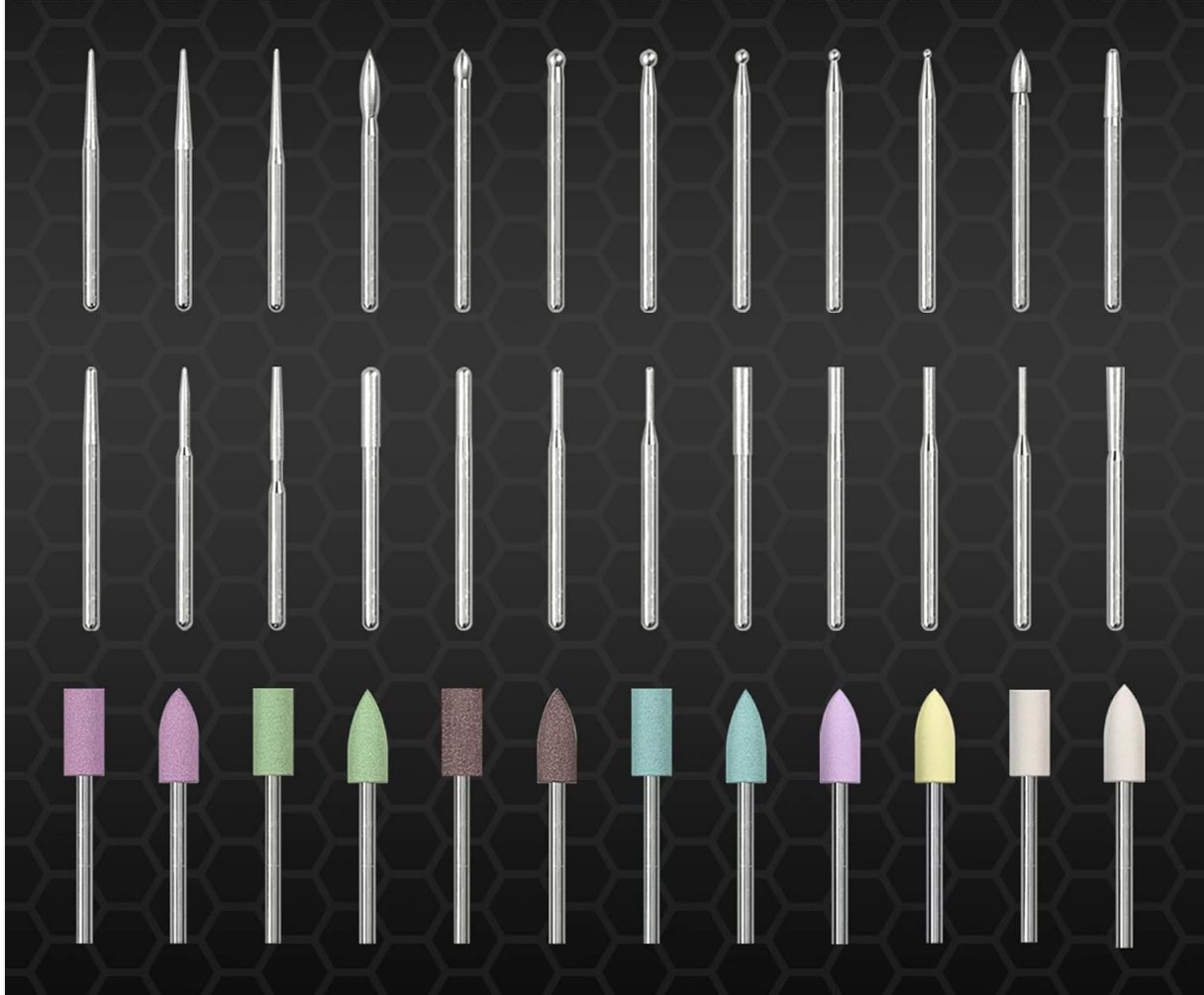
24 ENGRAVING & 12 POLISHING BITS

Image 2.2: A selection of the 36 included engraving and polishing bits, showcasing various shapes and sizes for different applications.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off and Speed Adjustment

To power on the device, press the power button once. The tool will start at its default speed setting. Pressing the power button repeatedly will cycle through different speed settings. To power off, press and hold the power button until the tool stops.

3.2 Using the ARROWMAX Smartphone App

For customizable control over speed and direction, download the optional ARROWMAX Smartphone App (available on Google Play and Apple App Store).

1. Download and install the ARROWMAX App on your smartphone.

2. Ensure Bluetooth is enabled on your smartphone and the SGS MINI tool is powered on.

3. Open the app and follow the on-screen instructions to pair with your SGS MINI.

4. Within the app, you can adjust the tool's speed in 1000 RPM increments and switch between forward and reverse modes for precise control.
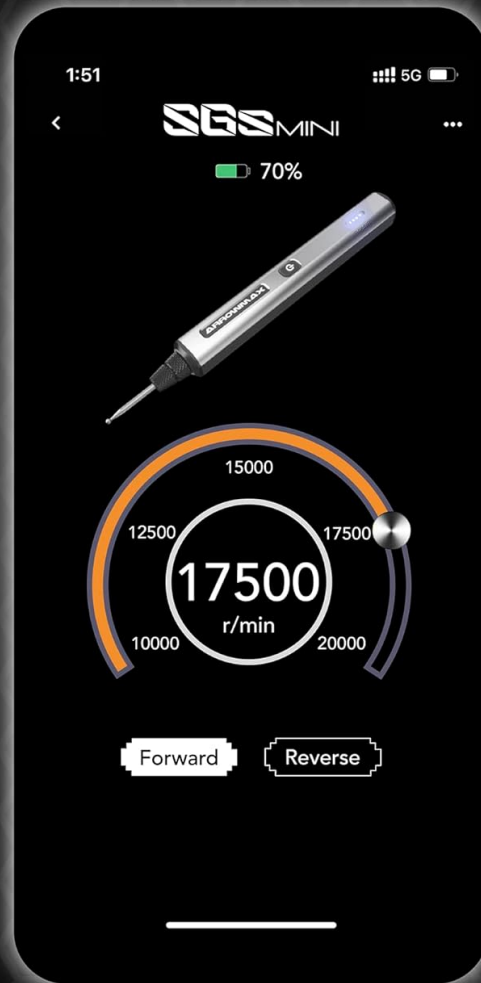
Image 3.1: Screenshot of the ARROWMAX Smartphone App, demonstrating the interface for adjusting tool speed and direction.

3.3 Working Status Indicator

The tool features a working status indicator that displays battery level and rotation direction. Refer to the image below for details on interpreting the indicator lights.

Image 3.2: Illustration of the dynamic indicator lights, showing battery levels (4 lights for 100%, 3 for 75%, 2 for 50%, 1 for 25%) and rotation direction.

3.4 Application Examples

The ARROWMAX SGS MINI is suitable for a variety of delicate tasks on different materials:

- **Engraving:** Create intricate designs on glass, wood, metal, and plastic.
- **Sanding**/**Grinding:** Smooth rough edges or shape small components.
- **Polishing:** Restore shine to jewelry, resin crafts, or other surfaces.
- **Drilling:** Create small holes in soft materials.

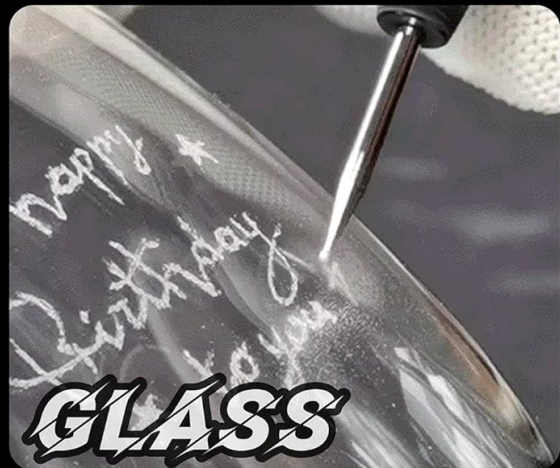# CUSTOMISE YOUR ITEM

CRYSTAL

WOOD

GOLD

GLASS

Image 3.3: Examples of the tool being used for engraving on crystal, wood, gold, and glass, demonstrating its versatility.

Glass

Leather

DIY Craft

Stone

Plastic

Shell

PCB

Wood

Image 3.4: Visual representation of various materials the tool can be used on, including glass, leather, stone, plastic, shell, PCB, and wood.

4. MAINTENANCE

4.1 Cleaning

Regular cleaning ensures optimal performance and longevity of your tool.

- Always power off the tool and remove any bits before cleaning.
- Use a soft, dry cloth to wipe down the tool's body.
- For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the charging port or internal components.
- Clean the chuck area regularly to prevent debris buildup that could affect bit seating.

4.2 Storage

Store the ARROWMAX SGS MINI and its accessories in a cool, dry place, away from direct sunlight and extreme temperatures. The aluminum alloy storage case is designed for convenient and protective storage.

5. TROUBLESHOOTING

If you encounter issues with your ARROWMAX SGS MINI, please refer to the following common troubleshooting steps:

- **Tool not turning on:** Ensure the battery is sufficiently charged. Connect the tool to the charger and check the indicator lights.
- **Reduced power/speed:** The battery might be low. Recharge the tool. Also, ensure the bit is not jammed or excessively worn.
- **Bit not spinning correctly:** Check if the bit is properly inserted and the chuck collar is securely tightened. Ensure the bit is not bent or damaged.
- **App connectivity issues:** Ensure Bluetooth is enabled on your smartphone and the tool is within range. Try restarting both the app and the tool.
- **Overheating:** Prolonged continuous use, especially under heavy load, can cause the tool to heat up. Allow the tool to cool down before resuming operation.

If the problem persists after attempting these steps, please contact customer support for further assistance.

6. SPECIFICATIONS

Feature	Specification
Brand	ARROWMAX
Product Model Number	AM-199211-2
Package Dimensions	21 x 8 x 3.2 cm
Color	Black	Gray

Feature	Specification
Power Source	Battery Powered
Voltage	3.7 Volts
Tool Features	Cordless, Compact
Included Components	Battery
Battery Included	Yes
Battery Type	Lithium Ion
Maximum Rotational Speed	20000 RPM
Item Weight	360 g
Recommended Use	Grinding, Cutting, Engraving, Polishing

7. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or visit the official ARROWMAX website. Keep your proof of purchase for any warranty claims.