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## ARROWMAX 230412

# ARROWMAX Mini Engraving Pen Model 230412 User Manual

Cordless Portable Engraving Tool

## 1. INTRODUCTION

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Thank you for choosing the ARROWMAX Mini Engraving Pen. This cordless, portable engraving tool is designed for precision work on a variety of materials, offering flexibility and ease of use for both beginners and experienced users. Please read this manual thoroughly before operating the device to ensure safe and optimal performance.



Image 1.1: The ARROWMAX Mini Engraving Pen and its included accessories, neatly organized within its packaging.

## 2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- ARROWMAX Mini Engraving Pen
- 30 Diamond Engraving Bits
- USB-C Charging Cable
- Quick Start Guide
- Outer Packaging Box
- Inner Packaging Box

# Beginner-Friendly starter kit



Image 2.1: A visual representation of the complete kit, including the engraving pen, various diamond bits, USB-C cable, and documentation.

## 3. PRODUCT OVERVIEW

Familiarize yourself with the components of your ARROWMAX Mini Engraving Pen:

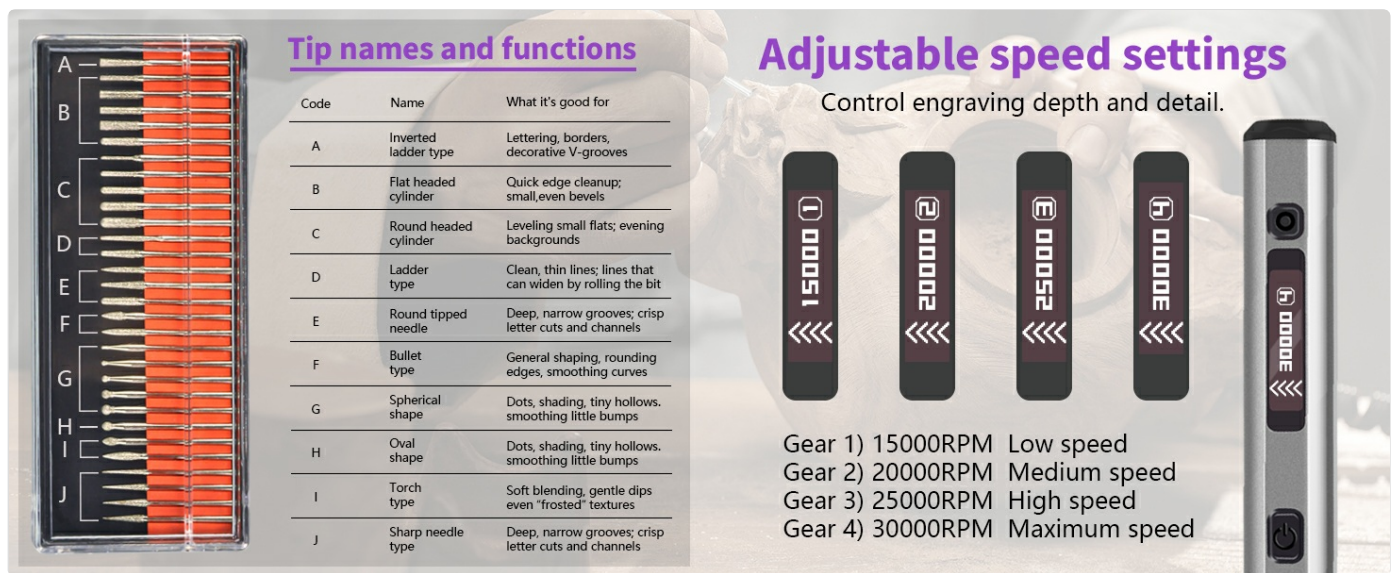


Image 3.1: Labeled diagram highlighting key features of the engraving pen, including the chuck, gear adjustment button, status display, Type-C charging port, power button, and aluminum alloy body.

- **Chuck:** Holds the engraving bits securely.
- **Gear Adjustment Button:** Single press to cycle through speed settings.
- **Status Display:** Shows battery level and current speed setting.
- **Type-C Charging Port:** For charging the internal battery.
- **Power Button:** Long press to turn on/off. Single press after startup to switch rotation direction (forward/reverse).
- **Aluminum Alloy Body:** Durable and ergonomically designed for comfortable grip.

## 4. SETUP

### 4.1 Charging the Device

Before first use, fully charge the engraving pen. Connect the provided USB-C cable to the charging port on the pen and to a compatible USB power source (e.g., computer, wall adapter). The status display will indicate charging progress.

### 4.2 Installing an Engraving Bit

1. Ensure the engraving pen is turned off.
2. Unscrew the chuck counter-clockwise to loosen it.
3. Insert the desired engraving bit into the chuck. Ensure the bit is inserted as far as it can go for stability.
4. Tighten the chuck clockwise until the bit is securely held. Ensure it is firmly tightened to prevent the bit from dislodging during operation.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

To turn the engraving pen on, long press the Power Button. To turn it off, long press the Power Button again.

### 5.2 Adjusting Speed Settings

The pen features a 4-speed hollow cup motor. After turning on the device, single press the Gear Adjustment Button to cycle through the available speeds:



- **Gear 1:** 10000 RPM (Low speed)
- **Gear 2:** 20000 RPM (Medium speed)
- **Gear 3:** 25000 RPM (High speed)
- **Gear 4:** 30000 RPM (Maximum speed)



Image 5.1: Illustration of the four adjustable speed settings (10000 RPM, 20000 RPM, 25000 RPM, 30000 RPM) and how they are displayed on the pen.

### 5.3 Changing Rotation Direction

After the device is powered on, a single press of the Power Button will toggle between forward and reverse rotation. The status display will indicate the current rotation direction.

## Get Amazing Results!

look what some people have done...



Image 5.2: The pen's display showing operating status for clockwise and anti-clockwise rotation, battery indicators, and current gear display.

### 5.4 Engraving Techniques and Material Compatibility

The ARROWMAX Mini Engraving Pen is suitable for over 50 surfaces, including metal, wood, glass, plastic, and beads. Experiment with different bits and speeds to achieve desired effects.



# Multi-Purpose, More Than A Hobby



Image 5.3: A close-up view of the electric engraving pen being used to add intricate details to a piece of jewelry.

# Adjustable Speed



**15000RPM**  
Low



**20000RPM**  
Medium



**25000RPM**  
High



**30000RPM**  
Maxium



Image 5.4: Collage showing the engraving pen being used on different materials such as wood, jade, and ceramic, demonstrating its versatility.

## 5.5 Understanding Engraving Bits

The kit includes 30 high-quality diamond carving bits. Each bit type is designed for specific engraving tasks:



Image 5.5: A detailed chart illustrating various engraving bit shapes and their recommended uses, such as lettering, cleaning, shaping, and smoothing.

### Engraving Bit Types and Functions

Code	Name	Function
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Code	Name	Function
A	Inverted ladder type	Lettering, borders, decorative V-grooves
B	Flat headed cylinder	Quick edge cleanup; small, even bevels
C	Round headed cylinder	Leveling small flats, evening backgrounds
D	Ladder type	Clean, thin lines; lines that can widen by rolling the bit
E	Round topped needle	Deep, narrow grooves; crisp letter cuts and channels
F	Bullet type	General shaping, rounding edges, smoothing curves
G	Spherical shape	Dots, shading, tiny hollows, smoothing little bumps
H	Oval shape	Dots, shading, tiny hollows, smoothing little bumps
I	Torch type	Soft blending, gentle dips, even "frosted" textures
J	Sharp needle type	Deep, narrow grooves; crisp letter cuts and channels

## 6. MAINTENANCE

### 6.1 Cleaning

After each use, ensure the engraving pen is turned off and unplugged. Use a soft, dry cloth to wipe down the body of the pen. Use a small brush to carefully remove any dust or debris from the chuck area and around the motor vents. Do not use harsh chemicals or abrasive cleaners.

### 6.2 Bit Care

Clean engraving bits after use to remove material residue. Store bits in their designated case to prevent damage and loss. Replace worn or damaged bits to maintain engraving quality and safety.

## 7. TROUBLESHOOTING

- **Pen does not turn on:** Ensure the battery is charged. Connect the USB-C cable and allow it to charge for at least 30 minutes before attempting to power on again.
- **Bit is loose or falls out during operation:** Always ensure the chuck is tightened securely before use. If the bit continues to loosen, inspect the chuck for damage or wear. Always wear appropriate eye protection when operating the tool.
- **Reduced engraving performance:** Check if the engraving bit is worn or dull. Replace with a new bit if necessary. Ensure you are using the appropriate speed setting for the material being engraved.
- **Pen stops unexpectedly:** The battery may be depleted. Recharge the device. If the issue persists after charging, contact customer support.

## 8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	230412
Power Source	1 Lithium Polymer battery (included)
Speed Settings	4 speeds (10000-30000 RPM)
Torque	120g/cm
Charging Port	USB-C
Item Weight	8.4 ounces
Package Dimensions	7.99 x 4.37 x 1.14 inches
Manufacturer	AM ARROWMAX

## 9. WARRANTY AND SUPPORT




### 9.1 Warranty Information


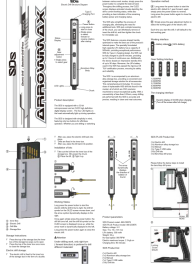

Specific warranty details are not provided in the product information. Please refer to the product packaging or contact the manufacturer directly for warranty terms and conditions.

### 9.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or inquiries regarding your ARROWMAX Mini Engraving Pen, please contact ARROWMAX customer support through their official website or the retailer where the product was purchased.

### Related Documents - 230412

	<p><a href="#">ARROWMAX SGS PRO Smart Electric Engraving &amp; Polishing Pen User Manual</a></p> <p>Comprehensive user manual for the ARROWMAX SGS PRO Smart Electric Engraving &amp; Polishing Pen, detailing its features, operation, installation, and specifications. Includes information on Bluetooth connectivity, customizable modes, and maintenance.</p>
	<p><a href="#">ARROWMAX SES MAX Smart Electric Screwdriver Pen - AM-230613 User Manual</a></p> <p>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.</p>
	<p><a href="#">Arrowmax SES MAX Smart Electric Screwdriver Pen - User Manual &amp; Specifications</a></p> <p>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.</p>

	<p><a href="#">ARROWMAX SES MINI Electric Screwdriver - User Manual and Specifications</a></p> <p>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.</p>
	<p><a href="#">ARROWMAX SDS Electric Drill &amp; Benchtop Drill Press Manual   AM-230875, AM-230876</a></p> <p>User manual for the ARROWMAX SDS electric drill (model AM-230875) and SDS PLUS electric drill with benchtop drill press attachment (model AM-230876). Provides detailed information on product features, operation, bit installation, storage, specifications, and included accessories. Features include a 32-bit microprocessor, OLED display, 500mAh LiPo battery, and Type-C charging.</p>
	<p><a href="#">Arrowmax SES MAX App Download and Connection Guide</a></p> <p>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.</p>