Pilipane E108

Pilipane Electric Engraving Pen User Manual

Model: E108

1. Product Overview

The Pilipane Model E108 is a compact, rechargeable electric engraving pen designed for precise carving and detailed work on various materials. It features intelligent overload protection, a portable design, and low-noise operation, making it suitable for a wide range of personal and professional projects.



Image 1.1: The Pilipane Electric Engraving Pen (Model E108) shown with its complete set of accessories, including various grinding heads, cutting disks, drill bits, USB charging cable, and engraving templates.

Key Features:

- **Intelligent Overload Protection:** Automatically cuts off power when excessive resistance is detected, preventing damage to the tool and ensuring user safety.
- **Rechargeable & Portable:** Cordless operation via USB charging, with a compact and lightweight design for easy transport and use anywhere.
- **Low Noise Operation:** Engineered for quiet performance, allowing for use in various environments without causing disturbance.
- **High Performance Motor:** Equipped with an 18000 RPM motor for precise control and efficient engraving.
- **Versatile Applications:** Suitable for mold polishing, arts and crafts, die casting, jade carving, stone carving, and

wood/bamboo carving.

2. Package Contents

Upon opening the package, verify that all the following items are included:

- 1 x Electric Engraving Pen (Model E108)
- 30 x Grinding Heads
- 1 x USB Charging Cable
- 1 x Grinding Head Storage Box
- 1 x Instruction Manual (this document)
- 1 x Connecting Rod
- 3 x Cutting Disks
- 2 x Drill Bits
- 16 x Engraving Templates

3. Component Identification

Familiarize yourself with the different parts of your engraving pen:



Image 3.1: Detailed diagram illustrating the key components of the engraving pen, including the grinding head, installation port, switch button, power display, load display, overload display, and charging jack.

- **Grinding Head:** The interchangeable tip used for engraving or grinding.
- **Pull and Insert Installation Port:** Where grinding heads, cutting disks, or drill bits are securely attached.
- **Switch Button:** Used to power the device on/off and cycle through speed settings.
- **1 to 3 Gear Power Display:** Indicates the current power level of the device.
- **1 to 3 Gear Display:** Shows the selected speed setting (low, medium, high).
- **4 Gear Load Display:** Provides feedback on the current workload or resistance encountered by the motor.
- **Overload Display:** Illuminates when the intelligent overload protection is activated.
- **Charging Jack:** USB port for recharging the internal battery.

4. Setup

4.1 Initial Charging

Before first use, fully charge the engraving pen. Connect the provided USB cable to the charging jack on the pen and to a standard USB power adapter (not included) or a computer USB port. The power display lights will indicate charging status. A full charge ensures optimal performance and battery life.
Note: The device can be used while charging if extended operation time is required.

4.2 Attaching Accessories

1. Ensure the engraving pen is turned off.
2. Gently pull the installation port to open it.
3. Insert the desired grinding head, cutting disk (with connecting rod), or drill bit into the port.
4. Release the installation port to secure the accessory firmly in place.
5. Verify that the accessory is securely seated before operating the device.

5. Operating Instructions

5.1 Power On/Off and Speed Adjustment

1. **Power On:** Press and hold the switch button for approximately 2 seconds to turn on the engraving pen. The default speed setting (low speed) will be indicated by the 1 to 3 gear display.
2. **Adjust Speed:** Briefly press the switch button to cycle through the speed settings:
    - First press: Low speed (5000 rpm)
    - Second press: Medium speed (10000 rpm)
    - Third press: High speed (18000 rpm)
    - Fourth press: Cycles back to low speed.
3. **Power Off:** Press and hold the switch button for approximately 2 seconds to turn off the engraving pen.

5.2 Engraving Techniques

Hold the engraving pen like a regular pen. Apply gentle, consistent pressure. For best results, practice on scrap material before working on your final project. Different materials and desired effects may require different speeds and grinding heads.

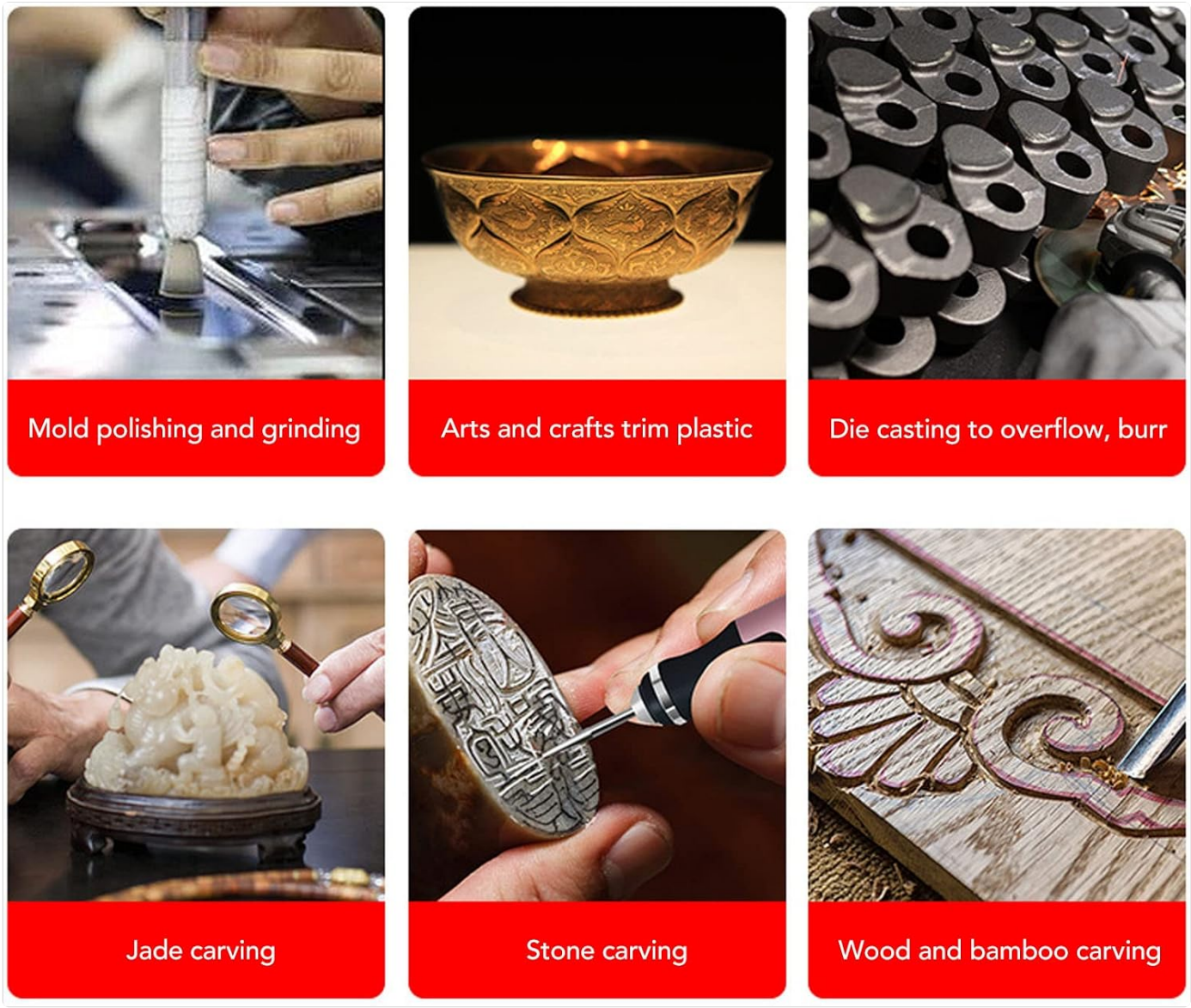


Image 5.1: Visual examples demonstrating the versatility of the engraving pen across various applications, including mold polishing, arts and crafts, die casting, and carving on jade, stone, and wood.

6. Safety Features and Precautions

6.1 Intelligent Overload Protection

The engraving pen is equipped with an intelligent overload protection chip. If the working resistance becomes too high, the device will automatically cut off the power supply to prevent damage to the motor and ensure safe operation. The Overload Display light will illuminate when this feature is active. If this occurs, reduce pressure or check for obstructions, then restart the device.



Image 6.1: The engraving pen depicted against a circuit board background, emphasizing its built-in safety protection circuit board and intelligent overload protection chip, which automatically cuts off power under excessive resistance.

6.2 General Safety Guidelines

- Always wear appropriate personal protective equipment, such as safety glasses, when operating the engraving pen.
- Ensure your work area is well-lit and clear of clutter.
- Keep hands and fingers away from the rotating grinding head during operation.
- Do not operate the device near flammable materials or liquids.
- Keep out of reach of children.
- Do not attempt to disassemble or modify the device.

7. Maintenance

7.1 Cleaning

After each use, ensure the device is turned off and unplugged (if charging). Use a soft, dry cloth to wipe down the body of the engraving pen. Remove any debris or dust from the grinding head installation port. Do not use harsh chemicals or abrasive cleaners.

7.2 Storage

Store the engraving pen and its accessories in a dry, cool place, away from direct sunlight and moisture. Utilize the provided grinding head storage box to keep accessories organized and protected.

8. Troubleshooting

Problem	Possible Cause	Solution
Pen does not turn on.	Low battery or no charge.	Charge the engraving pen using the USB cable.
Pen stops during operation, Overload Display illuminates.	Excessive pressure or resistance encountered.	Reduce pressure on the engraving surface. Check if the grinding head is clogged or worn. Turn off and restart the device.
Grinding head is loose or falls out.	Accessory not properly installed.	Ensure the accessory is fully inserted into the installation port and securely fastened.
Reduced performance or weak engraving.	Worn grinding head or low battery.	Replace the grinding head. Recharge the battery.

9. Specifications

Feature	Detail
Item Type	Electric Engraving Pen
Model	E108
Brand	Pilipane
Material	Aluminum alloy
Battery Type	1 x 4.2V Lithium Battery (built-in)
Battery Capacity	300mAh
Speed Settings	Low: 5000rpm, Medium: 10000rpm, High: 18000rpm
Power	10W
Item Weight	8.4 ounces
Dimensions (Approx.)	Length: 120mm (4.72in), Width: 16mm (0.6in)




120mm / 4.72in
16mm / 0.6in
E-108

Image 9.1: Diagram illustrating the approximate dimensions of the engraving pen, showing a length of 120mm (4.72 inches) and a width of 16mm (0.6 inches).

10. Warranty and Support

No specific warranty or support information is provided in the product details. For inquiries regarding warranty coverage or technical support, please refer to the seller or manufacturer's contact information provided at the point of purchase or on the product packaging.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How do I use the 'Pull and insert' installation port on the Pilipane E108 Electric Engraving Pen to attach accessories?

Based on the Pilipane E108 manual, the "Pull and insert installation port" is a spring-loaded mechanism designed to hold the grinding heads and drill bits in place without needing a wrench.To open the port...

Read full answer