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BLUVALL Engraving Pen-01

BLUVALL Electric Engraving Pen

Model: Engraving Pen-01

Instruction Manual

1. Introduction

Thank you for choosing the BLUVALL Electric Engraving Pen. This cordless rotary tool is designed for precision engraving, carving, polishing, sanding, and drilling on various materials such as jewelry, metal, glass, and wood. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.



Image: The BLUVALL Electric Engraving Pen kit, showcasing the pen, various bits, stencils, and charging cable.

2. Safety Instructions

- Always wear appropriate personal protective equipment, including safety glasses, to protect against flying debris.
- Ensure the engraving pen is turned off before changing bits or performing any maintenance.
- Keep hands and loose clothing away from rotating parts.
- Do not operate the tool near flammable liquids or gases.
- Store the tool in a dry, secure place out of reach of children.
- Avoid applying excessive pressure, as this can damage the tool or the workpiece.
- Use only BLUVALL approved accessories and bits.

- The tool features an intelligent safety overload protection. If the motor overheats or jams, the tool will automatically shut off. Allow it to cool down before resuming use.

3. Package Contents

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

- 1 x BLUVALL Electric Engraving Pen
- 30 x Engraving Bits (Diamond bits)
- 2 x Drill Bits
- 1 x Polish Bit
- 3 x Saw Bits
- 1 x Connecting Stick for Saw Bits
- 5 x Stencils
- 1 x USB Charging Cable (Type-C)
- 1 x Instruction Manual

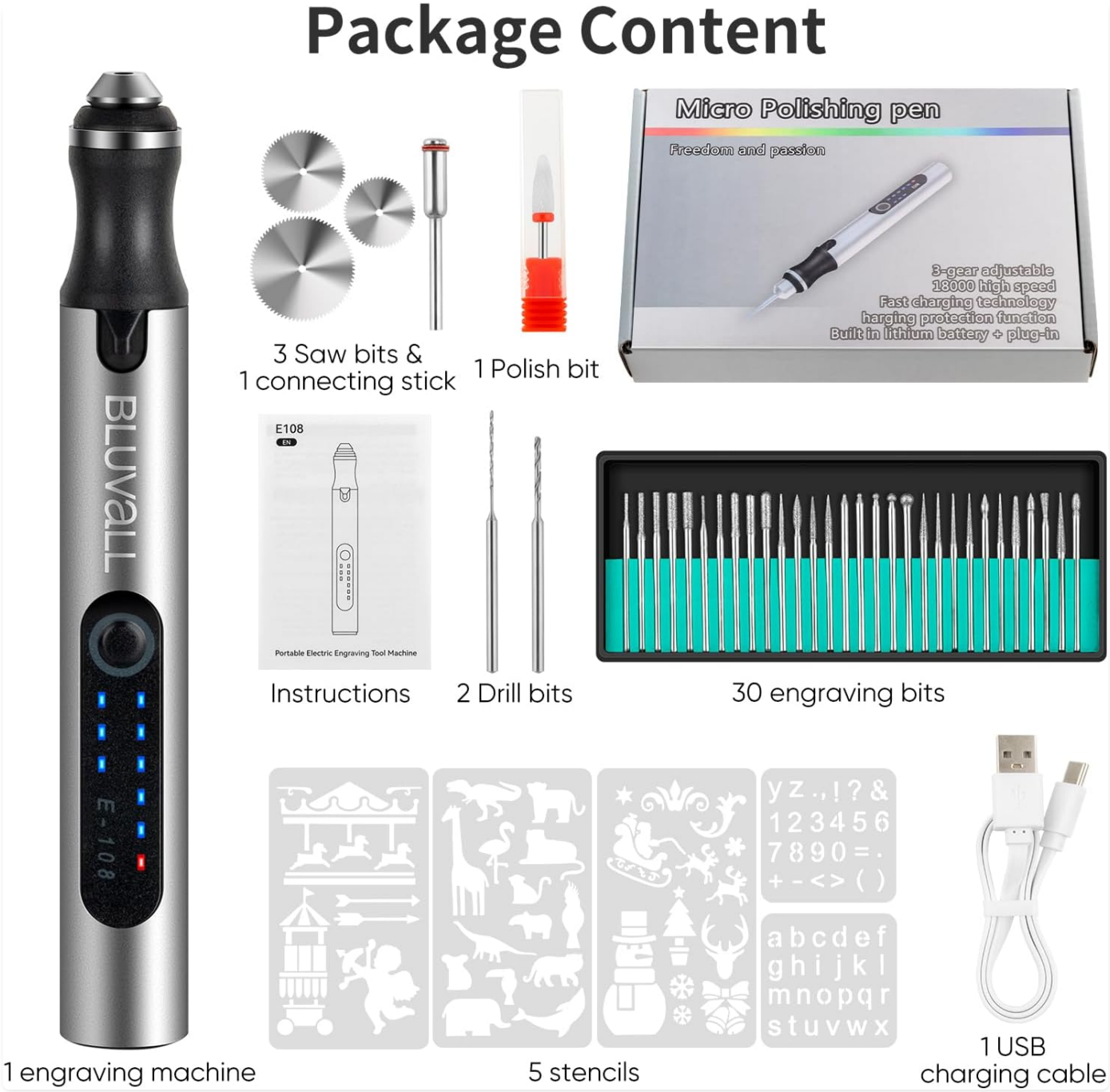


Image: All components included in the BLUVALL Electric Engraving Pen kit, neatly arranged.

4. Product Overview

Familiarize yourself with the parts of your BLUVALL Electric Engraving Pen:

1. **Overload Indicator Light:** Illuminates if the tool is overloaded or overheats.
2. **Speed Light:** Indicates the current speed setting.
3. **On/Off & Adjust Speed Button:** Powers the tool on/off and cycles through speed settings.
4. **Power Light:** Displays the battery charge level.
5. **Locking Screw:** Secures the inserted bits.
6. **Insert Bits:** The chuck where various bits are inserted.



Image: A detailed diagram of the engraving pen, highlighting its various components and indicators.

5. Setup

5.1. Charging the Engraving Pen

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 power indicator lights will show the charging status. A full charge takes approximately 30 minutes and provides up to 4 hours of continuous use.



Image: Close-up view of the USB-C charging port and the high-speed motor assembly.

5.2. Installing Bits

To install an engraving or drill bit:

1. Ensure the pen is turned off.
2. Loosen the locking screw at the tip of the pen.
3. Insert the desired bit into the chuck until it is firmly seated.
4. Tighten the locking screw securely to hold the bit in place. No additional tools are required for standard bits.

To install a saw bit:

1. Ensure the pen is turned off.
2. Loosen the locking screw.
3. Take a connecting stick and install a saw bit onto it, then tighten it with a screwdriver (not included).
4. Insert the assembled saw bit and connecting stick into the chuck.
5. Tighten the locking screw securely.



Image: Visual instructions demonstrating how to insert standard bits and saw blades into the engraving pen.

6. Operating Instructions

6.1. Powering On and Adjusting Speed

Press and hold the On/Off & Adjust Speed button to power on the pen. The speed lights will illuminate. Press the button briefly to cycle through the three-speed settings:

- **Low Speed (5,000-10,000 RPM):** Ideal for polishing and working with soft materials.
- **Medium Speed (10,000-15,000 RPM):** Suitable for wood and glass engraving.
- **High Speed (15,000-20,000 RPM):** Recommended for metal and stone engraving.

To power off, press and hold the On/Off & Adjust Speed button again.

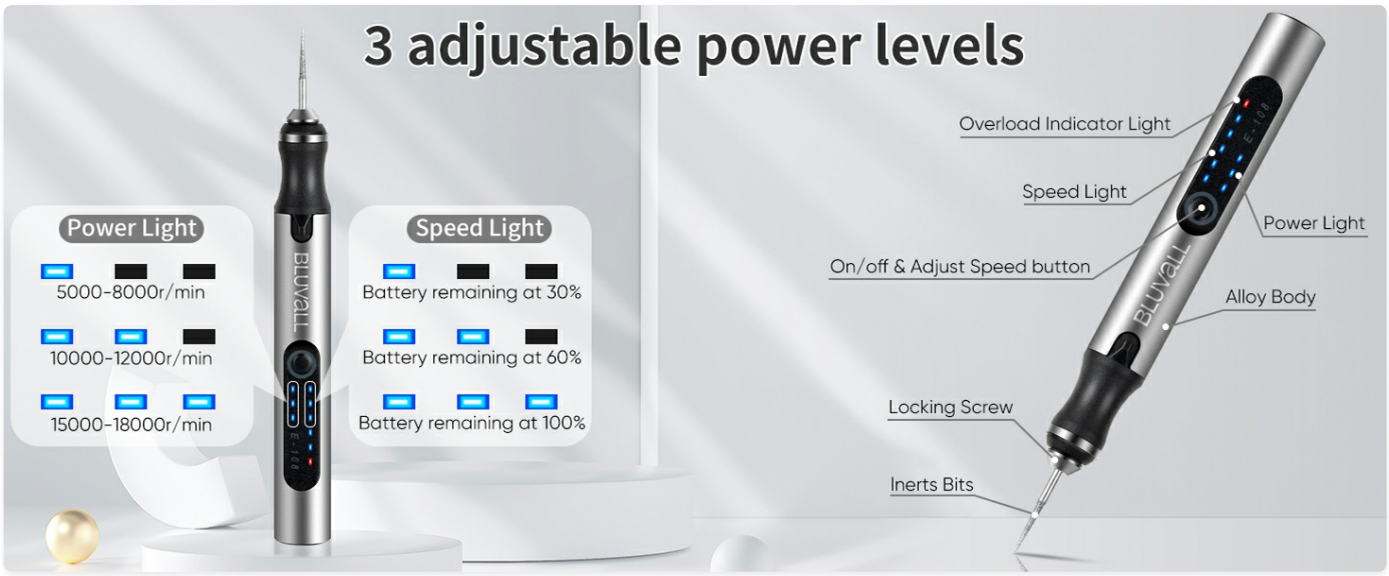


Image: An illustration detailing the three adjustable speed settings and how the power lights indicate battery level.

6.2. Usage Tips

- Always test on a scrap piece of material before working on your final project.
- Hold the pen like a regular writing instrument for precise control.
- Apply light, consistent pressure. Let the tool do the work.
- For intricate designs, use the included stencils to guide your engraving.
- Change bits as needed for different tasks (engraving, drilling, sanding, polishing).



Image: Examples of the engraving pen being used for jewelry, stone, wood, and metal carving.



Image: Demonstrations of the engraving pen transforming ordinary items into personalized crafts.

7. Maintenance

7.1. Cleaning

After each use, wipe down the engraving pen with a soft, dry cloth to remove dust and debris. Use a small brush to clean any residue from the chuck area. Do not use harsh chemicals or abrasive cleaners.

7.2. Bit Care and Storage

Clean bits after use to prevent material buildup. Store all bits in their designated case to protect them from damage and keep them organized. Replace worn or damaged bits to maintain optimal performance and safety.

8. Troubleshooting

- **Pen not turning on:** Ensure the battery is charged. If fully charged, try pressing and holding the power button for a few seconds.
- **Bits not rotating or slowing down:** Check if the bit is securely tightened. Reduce pressure on the workpiece. The overload protection may have activated; allow the tool to cool.
- **Poor engraving results:** Ensure the correct bit is used for the material. Adjust the speed setting. Clean the bit if it's clogged.
- **Overload indicator light is on:** This indicates excessive pressure or a jam. Release pressure, turn off the tool, clear any obstruction, and restart.

9. Specifications

Brand	BLUVALL
Model Number	Engraving Pen-01
Power Source	Battery Powered (1 Lithium Ion battery included)
Adjustable Speeds	3 Levels (5,000-10,000 RPM, 10,000-15,000 RPM, 15,000-20,000 RPM)
Maximum Rotational Speed	20,000 RPM
Minimum Speed	5,000 RPM
Battery Average Life	Up to 4 Hours (after 30-minute charge)
Charging Port	USB-C
Body Material	Durable Aluminum Alloy
Special Features	Overload Protection, Ergonomic Grip, Portable, Cordless

10. Warranty and Support

BLUVALL products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided on the product packaging or visit the official BLUVALL website. Keep your purchase receipt as proof of purchase.

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