

- **35W High-Power Ultrasonic System:** Dual-core PZT ceramics and titanium alloy transducer deliver true 40kHz frequency for efficient cutting, grinding, and polishing.
- **Multi-Functional Modes:** The ultrasonic cutter knife features precision cutting, grinding, and polishing modes, making it compatible with a wide range of materials, including carbon fiber, acrylic, leather, metals, wood, 3D-printed resins, PCBs, and more.
- **Ergonomic & Durable Design:** With aluminum alloy handle, dynamic cooling system and anodized surface, Jakemy ultrasonic cutter is ideal for heat dissipation and longer operation time.
- **Smart Visual Interface:** Featuring an innovative OLED dual-display, the handheld ultrasonic cutter shows real-time mode status, temperature monitoring, and blade feedback for enhanced safety and control.
- **Sound Reminders [NEW FUNCTION]:** Provides sound reminders during certain operations, collaborating with visual operations to deliver a more efficient user experience.
- **Proprietary Blade System:** 24mm 30° flat-base single-tip blade outperforms standard blades. The Pro version of handheld ultrasonic cutter adds specialized blades (60° narrow, chisel, straight) for precision tasks.
- **Safety & Convenience Features:** Child safety lock switch, blade cover storage with S2 wrench, 35W fast charging (Type-C), and front LED lighting.
- **Versatile Applications:** The JM-Y10 Ultrasonic Cutter & Polisher is ideal for model prototyping, DIY crafts, medical device production, industrial deburring, and material post-processing.

Model number	JM-Y10	Color	Black
Handle size	179*33.5*31.5 mm	Blade material	SK5 high carbon steel
Single gross weight	– kg	Certificate	CE Certification
MOQ	Starting from \$100	Service	OEM & ODM
Package type	Carton packaging – cm/carton – sets/carton G.W – kg		

*All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

*All product parameter and function are subject to change without notice.

*Yifeng company reserves the right to change the product specification and appearance without notice.

JAKEMY JM-Y10 Handheld Ultrasonic Cutter & Polisher can handle diverse materials commonly found in model making, home improvement, and craft work. It can achieve **Efficient Cutting, Grinding, Polishing** for Work & Life (NO BATTERY).

Our Flagship Product: Industry-Leading Performance with Unbeatable Value. Powered by Proprietary Technology. Proven through Extensive Customers. Confidently Comparable.

35W High Power | True 40KHz | Extended Usage Time | Intuitive Operation | Multiple Blades | Multi-Material Compatibility

What JM-Y10 Ultrasonic Cutter & Polisher can do?

In short, our handheld ultrasonic cutter supports three modes: precision cutting, grinding, and polishing. It is particularly suitable for industrial manufacturing, creative design, model prototyping, craft enthusiasts, medical device producers, and packaging professionals.

Applicable materials include:

- **Cutting Mode:** Carbon fiber boards, acrylic sheets, leather, EVA foam, 3D-printed supports, PCBs, paper/corrugated cardboard, wood boards/sheets, plastic/rubber tubing, and nylon.
- **Grinding Mode & Polishing Mode (New Functions)** : Metal deburring, plastic finishing, wood polishing, gypsum model processing, shell surface treatment, 3D-printed resin post-processing.

The best JM-Y10 Handheld Ultrasonic Cutter & Polisher achieves high-efficiency performance through a perfect synergy between the “Effortless Structure” and “Turbocharged Power System”. Designed for extended ergonomic comfort and sustained powerful output, this ultrasonic cutter knife delivers superior results across various applications.

1. Effortless Structure

- **Integrated Aluminum Alloy Handle:** Seamless one-piece construction for balanced weight distribution, ultrasonic cutter enhances grip comfort and reduces user fatigue.
- **Anodized Surface Treatment:** Enhances heat dissipation efficiency.
- **Composite Aluminum Blade Holder:** Minimizes transducer heat generation, the handheld ultrasonic cutter keeps longer usage periods without overheating.
- **Dynamic Cooling System:** With the best ultrasonic knife cutter to monitor internal temperature via sensors and keep cooling via air circulation
- **Cooling Vents:** Targets heat-prone zones with passive cooling during cutting.
- **Sound Reminders [NEW FUNCTION]:** Sound reminders sync with OLED visuals during key operations (mode shifts, activation, alerts), reducing constant visual checks. This complements the ergonomic design by easing hand-eye strain, boosting efficiency during extended use.

2. Turbocharged Power System

- **Piezoelectric Ceramics (Ultrasonic Booster):** Made of high-quality PZT ceramics, the handheld ultrasonic cutter significantly amplifies vibration amplitude and energy output, maximizing cutting efficiency.
- **Titanium Alloy Transducer (Ultrasonic Transducer):** Durable forged titanium material efficiently generates high-frequency electrical signals and converts them to ultrasonic vibrations for precise cutting.
- **Smart Auto-Tracking (Automatic Frequency Tracking):** Ensures consistent, stable power output by automatically adjusting frequencies, eliminating reliance on manual tuning.
- **Type-C Fast-Charging Port:** Convenient reversible design supports rapid charging with higher current capacity and enhanced safety features. The DIY ultrasonic cutter is compatible with **mobile power supplies** and **AC adapters** rated at **15V=2A**.

3. Enhanced Safety & Visibility

Mode Button & Inching Switch: Activates controlled energy output in Auto Mode, Modes 1 and Mode 2, the handheld ultrasonic cutter ensures prolonged runtime and prevents blade-contact injuries.

Real-time OLED Feedback: Unlike traditional switches used by other brands, our OLED display offers clear, real-time visibility of the blade's operational status. This greatly enhances operational safety with Jakemy handheld ultrasonic cutter.

New feature – Sound reminders: Provides sound reminders during certain operations, collaborating with visual operations to deliver a more efficient user experience.

4. Precision Blade & Polishing Configuration

JM-Y10 ultrasonic cutter knife utilizes a proprietary 24mm, 30° fine point blade, demonstrating superior cutting efficiency compared to standard 25mm blades in industry tests.

Basic Version Configuration:

- **30° Fine Point Blade:**

Handles most everyday cutting tasks effectively.
Smaller contact surface for faster cuts with moderate precision.

- **Polishing Sticks (#800 Mesh):**

Ideal for polishing hard materials including metal, ceramics, jade, acrylic, resin, plastics, and circuit boards.

PRO Version Configuration (Includes Basic Version Accessories Plus):

- **60° Fine Point Blade:**

Ideal for everyday precise cutting.
Larger contact surface
Offering greater precision at a slightly slower cutting speed.

- **30° Narrow Point Blade:**

Excellent for intricate cutting tasks in tight spaces.

- **Narrow Chisel Blade:**

Designed specifically for grooving softer materials.

- **Cutting Straight Blade:**

Optimal for large-area peeling tasks.

5. Better User Experience

- **Blade Cover with Storage Compartment**

Integrated storage for spare blades and includes an S2 phosphate hex wrench for convenient blade replacement.

- **Child Safety Lock Switch**

Built into the blade cover, the Jakemy ultrasonic cutter knife prevents accidental blade contact injuries, particularly useful around children.

- **Lighting Function**

The handheld ultrasonic cutter is equipped with 4 front LEDs. Pressing the Inching Switch or selecting Mode A (Auto) ensures clear visibility during operation.

- **35W Fast Power Adapter**

Provides superior cutting power and stable output compared to typical $\leq 30W$ options.