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> Genmitsu Cubiko CNC Milling Machine Instruction Manual

Genmitsu CUBIKO

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Model: CUBIKO

Brand: Genmitsu

1. INTRODUCTION AND OVERVIEW

The Genmitsu Cubiko CNC Milling Machine is a smart desktop CNC designed for ease of use and precision. It arrives ready for operation, requiring no assembly. Simply plug it in and begin your carving projects. The Cubiko supports offline control and is compatible with popular software such as the Genmitsu App, Fusion 360, Easel, Candle, and Carveco, allowing for extensive customization. This machine is ideal for beginners, offering step-by-step tutorials and video instructions to safely carve various materials including wood, acrylic, and soft metals.



Image: Genmitsu Cubiko CNC Milling Machine with descriptive text.

2. KEY FEATURES

- **Automatic Tool Height Adjustment:** Eliminates manual setup. Input material thickness, and the tool height is automatically adjusted for milling or engraving.
- **Intelligent Surface Adjustment:** Automatically measures the material surface and adjusts carving paths for smooth, precise results, even on uneven surfaces.
- **Robust and Precise Engraving:** Features a sturdy, one-piece frame for reliable metal cuts (0.5 mm depth per pass) and a precision of ± 0.1 mm. Suitable for detailed work on hard metals.
- **Safety Enclosure:** The included enclosure protects your workspace from dust and debris, reduces noise, and enhances safety. An automatic stop function immediately halts operation if the cover is opened.



Image: Cubiko CNC machine highlighting its one-piece sheet metal frame, maximum metal engraving depth of 0.5mm, and running accuracy of ± 0.1 mm.

BUILT-IN PROBE

Accurate height calibration in seconds



Image: Close-up of the built-in probe feature, demonstrating accurate height calibration in seconds.

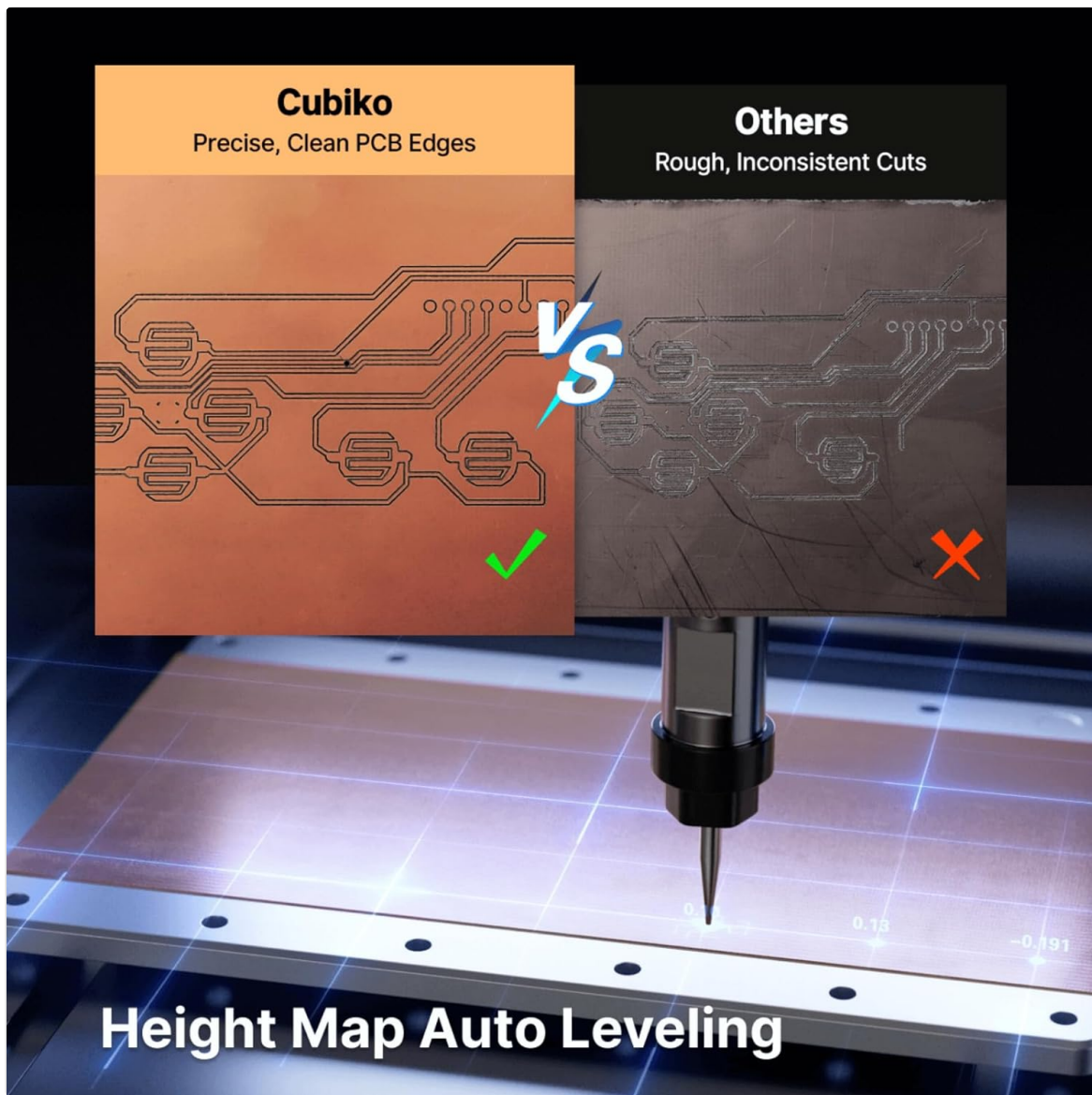


Image: Visual comparison showing precise, clean PCB edges achieved by Cubiko versus rough, inconsistent cuts from other machines, highlighting Height Map Auto Leveling.

3. SAFETY INFORMATION

Operating any CNC machine requires adherence to strict safety protocols to prevent injury and damage. The Genmitsu Cubiko is designed with safety features, but user vigilance is paramount.

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses to protect against flying debris. A dust mask is recommended when working with materials that produce fine particles.
- **Use the Safety Enclosure:** Keep the provided safety enclosure closed during operation. The automatic stop function will halt the machine if the cover is opened, but do not rely solely on this feature.
- **Keep Hands Clear:** Never place hands or any body parts near moving parts of the machine during operation.
- **Secure Workpiece:** Ensure your material is securely clamped to the workbed to prevent it from shifting during milling.
- **Emergency Stop:** Familiarize yourself with the location and operation of the emergency stop

button.

- **Ventilation:** Operate the machine in a well-ventilated area to dissipate fumes and dust.

4. SETUP AND INITIAL OPERATION

The Genmitsu Cubiko is designed for out-of-the-box use with no assembly required. Follow these steps for initial setup:

1. **Placement:** Place the machine on a stable, level surface in a well-ventilated area.
2. **Power Connection:** Connect the power adapter to the machine and then to a suitable power outlet (230 Volts).
3. **Software Installation:** Download and install the Genmitsu App on your compatible device or prepare your preferred CAD/CAM software (Fusion 360, Easel, Candle, Carveco).
4. **Connect to Machine:** Establish a connection via Wi-Fi or USB as per your software's instructions.
5. **Material Loading:** Secure your chosen material onto the workbed using appropriate clamps.
6. **Automatic Z-Probe:** Utilize the automatic Z-probe function to set the tool height. Input the material thickness, and the machine will calibrate automatically.
7. **Intelligent Surface Adjustment:** Allow the Cubiko to measure the material surface for optimal carving results.
8. **Load Design:** Import your design file into the software.
9. **Start Carving:** Initiate the carving process. Monitor the machine closely during operation.

CREATE WITHOUT LIMITS



Genmitsu APP



Fusion 360



Easel



Carveco Maker



Other CAD/CAM Software

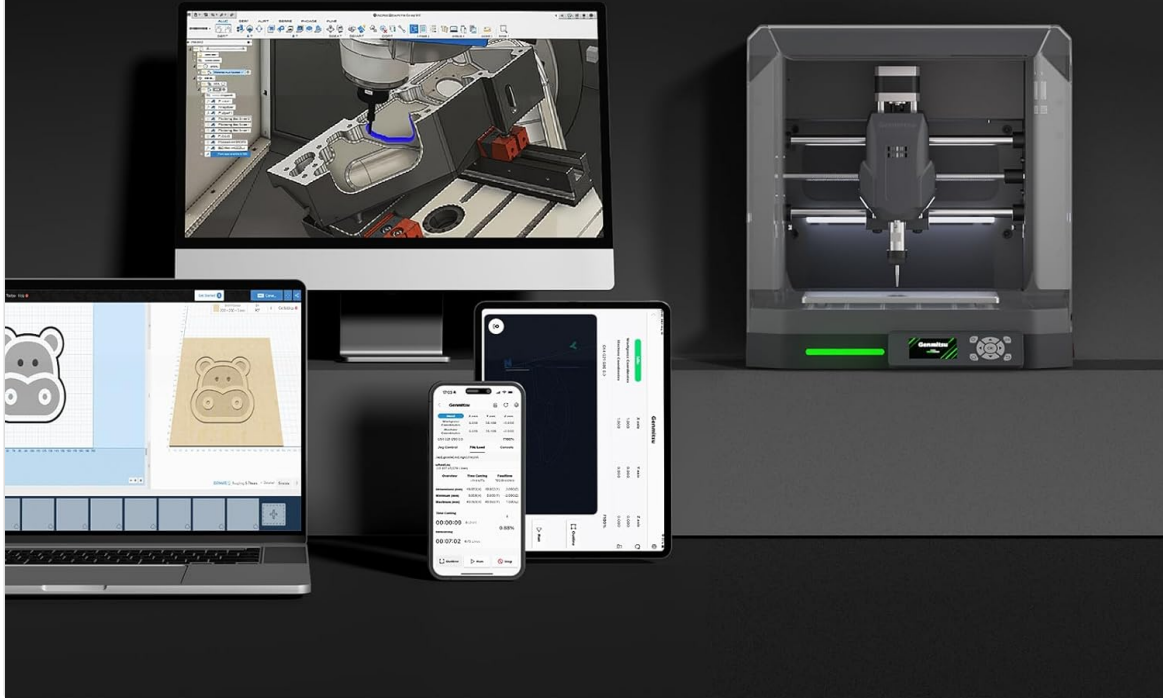


Image: Cubiko CNC machine demonstrating software compatibility with various CAD/CAM applications.

Genmitsu APP

Continuous Updates, Endless Potential



Image: The Genmitsu App interface, showcasing its features for controlling the CNC machine.

5. MATERIAL COMPATIBILITY

The Genmitsu Cubiko CNC Milling Machine is versatile and can work with a wide range of materials. Always ensure you use appropriate bits and settings for each material to achieve optimal results and prevent damage to the machine or workpiece.

- MDF (Medium-density fibreboard)
- Plywood
- Bamboo
- PCB (Printed Circuit Board)
- Aluminum
- Copper
- Brass
- Gold
- Resin
- Leather
- Carbon Fiber
- Acrylic

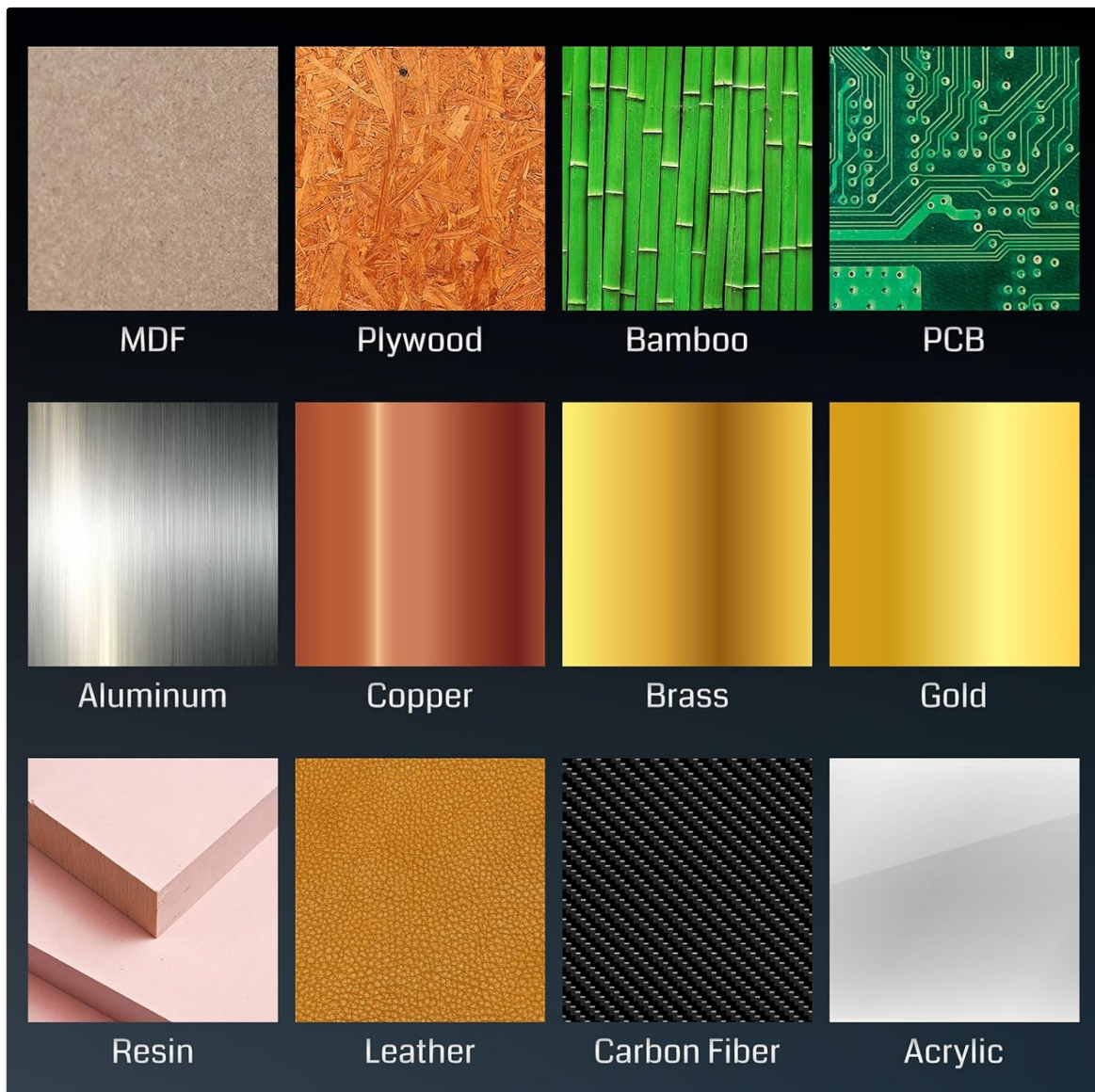


Image: A visual guide to the diverse materials compatible with the Cubiko CNC machine.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Genmitsu Cubiko CNC Milling Machine.

- **Cleaning:** After each use, clean the workbed and all moving parts to remove dust and debris. Use a soft brush or vacuum. Avoid using harsh chemicals.
- **Lubrication:** Periodically apply a small amount of appropriate lubricant to the lead screws and guide rails to ensure smooth movement. Refer to the manufacturer's recommendations for lubricant type.
- **Check Connections:** Regularly inspect all electrical connections and cables for wear or damage. Ensure they are securely plugged in.
- **Tool Inspection:** Before each use, check your milling bits for sharpness and damage. Replace dull or broken bits to maintain precision and prevent machine strain.
- **Enclosure Care:** Keep the safety enclosure clean and free of scratches to maintain visibility and effectiveness.

7. TROUBLESHOOTING

If you encounter issues with your Genmitsu Cubiko, refer to the following common troubleshooting steps:

- **Machine Not Powering On:**
 - Check if the power cable is securely connected to both the machine and the power outlet.
 - Ensure the power switch on the machine is in the 'ON' position.
 - Verify the power outlet is functional by plugging in another device.
- **Machine Not Responding to Software:**
 - Confirm the USB or Wi-Fi connection is active and stable.
 - Restart both the machine and your computer/device.
 - Ensure the correct drivers are installed and the software is up to date.
- **Milling Bit Not Moving/Engaging:**
 - Check if the milling bit is properly inserted and tightened in the collet.
 - Verify that the Z-probe has correctly calibrated the tool height.
 - Ensure the spindle motor is receiving power and is active in the software.
- **Inaccurate Carving/Poor Quality:**
 - Check that the material is securely clamped and not moving during operation.
 - Ensure the milling bit is sharp and appropriate for the material.
 - Re-run the automatic Z-probe and intelligent surface adjustment.
 - Verify your design file and software settings (feed rate, depth of cut) are correct for the material.
- **Machine Stops Unexpectedly:**
 - Check if the safety enclosure door was opened, triggering the automatic stop.
 - Look for any obstructions in the machine's path.
 - Ensure there are no loose cables or connections.

For persistent issues, consult the Genmitsu support resources or contact customer service.

8. SPECIFICATIONS

Feature	Detail
Brand	Genmitsu
Model Number	CUBIKO
Material	Metal
Power Source	AC/DC
Voltage	230 Volts
Power (Horsepower)	96 Watt
Max Rotation Speed	9000 RPM
Amperage	5 A
Product Dimensions (L x H)	15l x 4.1H centimeters
Item Weight	11.06 Kilograms
Precision	±0.1 mm
Max Metal Engraving Depth	0.5 mm

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase accessories, please visit the official Genmitsu website or contact their customer service directly. You can also visit the [Genmitsu Store on Amazon](#) for additional products and resources.