

TERMS OF USE, DISCLAIMER &amp; SAFETY NOTICE

# ToolPath Advisor

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**IMPORTANT:** Read this before using ToolPath Advisor. CNC machining involves cutting tools rotating at high speed. Incorrect settings can cause equipment damage, material loss, tool breakage, or personal injury. You are responsible for verifying all values before running any cut.

## 1. Nature of This Tool

ToolPath Advisor provides estimated starting values for CNC router operation based on published chip load guidelines, material behavior data, and machine-class assumptions.

- Starting points, not specifications
- Calibrated for general-purpose hobbyist machines, not industrial or production equipment
- Based on nominal material behavior — actual wood, individual bits, machine condition, and workholding all affect real-world performance
- Intended for operators who understand basic CNC safety and can evaluate whether machine response to a given setting is normal

## 2. No Warranty — Values Are Estimates

Feed rates, RPM values, depths of cut, stepovers, and all other parameters are estimates derived from general CNC machining principles and community-tested data. Neumann Guitar makes no warranty regarding accuracy, suitability for your specific machine, or results obtained. No recommendation constitutes professional engineering advice.

## 3. Your Responsibility as the Operator

By using ToolPath Advisor you acknowledge:

- You are the operator — responsible for all settings entered into your machine.
- Start slow. Every recommendation is a starting point. Run at reduced speed first.
- Verify before running. Confirm bit diameter, flute count, and material match actual use.
- Check your machine. Worn belts, out-of-tram spindle, or poor workholding changes everything.
- Never leave a running CNC unattended during a first run at new settings.
- Wear PPE. Eye protection required. Respirator required for MDF, exotic hardwoods, hazardous materials.

## 4. Material-Specific Hazards

The following materials carry specific safety hazards beyond normal woodworking dust:

### Exotic Oily Woods (Cocobolo, Rosewood, Purpleheart, Padauk)

Known contact allergen and respiratory sensitizer. Use dust collection and a respirator (N95 min; P100 preferred). Avoid skin contact.

### Ebony and Dense Exotic Species

Moderately toxic by inhalation and extremely abrasive. CITES-listed species may have import/documentation requirements.

### MDF and Composite Wood Products

Extremely fine dust with formaldehyde-based resins — possible human carcinogen. Dust collection and respirator required, not optional.

### Aluminum

Chips are sharp and airborne. Cutting fluid or air blast required. Low feed rates cause heat-welding and bit breakage.

### Acrylic and Plastics

Too-low feed rates cause melting and bit bonding. PVC produces chlorine gas at extreme heat — maintain chip clearance.

### SpectraPly and Phenolic Laminates

Resin-impregnated dust is more hazardous than solid wood. Treat as MDF or higher for respiratory protection.

## 5. Limitation of Liability

To the fullest extent permitted by law, Neumann Guitar, its owners, and contributors shall not be liable for any damages arising from use of or reliance on any recommendation; equipment damage, material damage, tool breakage, or personal injury from operating a CNC machine; or errors in the app's data, calculations, or recommendations. For commercial or production environments, consult a professional machinist or tooling manufacturer.

## 6. Intellectual Property

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## 7. Privacy

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## 8. Contact

Questions, corrections, or safety concerns: [neumannguitar.com/contact](https://neumannguitar.com/contact). If you identify a recommendation that creates a genuine safety risk, please report it.

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