

Onefinity Elite Gen 2 CNC Router

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Onefinity Elite Gen 2 Foreman

This tool is restricted to Makerspace Members, and requires a training before use. Request a training on Slack: **#class-requests**

Workflow: (1) Design at home in VCarve Makerspace client edition → (2) Post-process toolpaths at the shop on master VCarve → (3) Run the job on the **dedicated CNC shop PC** via RTS-X. Never drive the machine from a personal laptop.

Model	Onefinity Elite Gen 2 Foreman (48×48 / ~49×49" cut area)
Spindle	Redline 80mm 1.5kW air-cooled, 110V, ER20 collet (up to 1/2" shank)
Controller	RealTime CNC (RTS-X) - shop PC only (no built-in HMI touchscreen)
Date Purchased	TBD
Status	Operational
Link To Manual	Onefinity Support - Gen 2 Elite
Link to product page	Gen 2 Elite Series

Quick Reference

Category	Details
Critical rules	Training required • Dedicated CNC shop PC only - no personal laptops • Never leave the machine unattended while cutting • Wood and plastics only - no metals

Category	Details
Key numbers	~49×49" cut area • ER20 collet, max 1/2" shank • Max ~1.5" bit diameter (VFD fault risk) • 3/4" spoilboard thickness
Workflow	Design at home (VCarve client) → Export G-code at shop (VCarve master) → Run job at shop (RTS-X on CNC PC)
Get help	Slack #woodworking • Onefinity support • RTS-X docs

Description

Our Onefinity Elite Gen 2 Foreman is a large-format CNC router for precision 2D and 3D cutting in wood and plastics. Members design projects at home in VCarve, generate toolpaths at the shop, and run jobs on the dedicated CNC computer using RTS-X. This machine replaces our retired [homemade CNC router](#).

Documentation

New to this machine? Start with Safety Rules and read the pages in order - each page links to the next.

- [Safety Rules](#)
- [Hardware and Machine Anatomy](#)
- [Software: VCarve and RTS-X](#)
- [Speeds and Feeds](#)
- [Preparing a Cut File](#)
- [Running a Job](#)
- [Maintenance and Troubleshooting](#)

Additional Resources

- [Onefinity manuals and support](#)
- [RTS-X documentation](#)
- [VCarve Pro Makerspace Edition](#)

TBD: Shop photos of installed machine, T-tracks, spoilboard, and control station.

Next: [Safety Rules](#) →

