

Software: VCarve and RTS-X

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Getting Access

1. Request CNC training on Slack: **#class-requests**
 2. Complete the CNC checkout/training class
 3. After checkout, an admin sends your **Vectric/V&Co Makerspace invite** so you can use the VCarve client edition at home
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Two separate software systems are involved: **VCarve Pro** for design and toolpath generation, and **RTS-X** for actually running the machine.

VCarve Pro Makerspace Edition

Our makerspace uses [VCarve Pro Makerspace Edition](#). Members get a free client license for home use after training.

At home (Client Edition)

1. Install VCarve Pro from [Vectric](#)
2. Sign in with your V&Co account after accepting a makerspace invite
3. Design your project and run 3D preview/simulation
4. Save your `.crv` project file
5. **Cannot** save toolpaths or G-code from home - that requires the shop master edition

At the shop (Master Edition)

- Licensed on makerspace computers (up to 5 installs)
- **Installed on:** the dedicated CNC computer(s) **and** the vinyl cutter computer
- Open the member's `.crv` file (USB or cloud)
- Verify tooling and machine profile
- **Save toolpaths** → export G-code
- Transfer G-code to the dedicated CNC PC running RTS-X

Helpful links:

- [Vectric Makerspace login docs](#)
 - [Vectric Makerspace overview video](#)
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RTS-X (Realtime CNC)

RTS-X is the only software that runs the machine. It handles homing, zeroing, spindle control, file import, simulation, and job execution.

- **Rule:** Always drive the machine from the **dedicated CNC shop PC** - never from a personal laptop or phone
- **No HMI:** We do not have the optional Redline touchscreen; the shop PC is the sole control interface

Documentation and downloads:

- [RTS-X Documentation Hub](#)
- [System Overview](#)
- [Settings reference](#)
- [Software downloads and updates](#)
- [Onefinity - Redline / Realtime Controller Manual](#)
- [Realtime Resources FAQ](#)

See also: [Preparing a Cut File](#) for post-processor setup.

← [Hardware and Machine Anatomy](#) | Next: [Speeds and Feeds](#) →

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