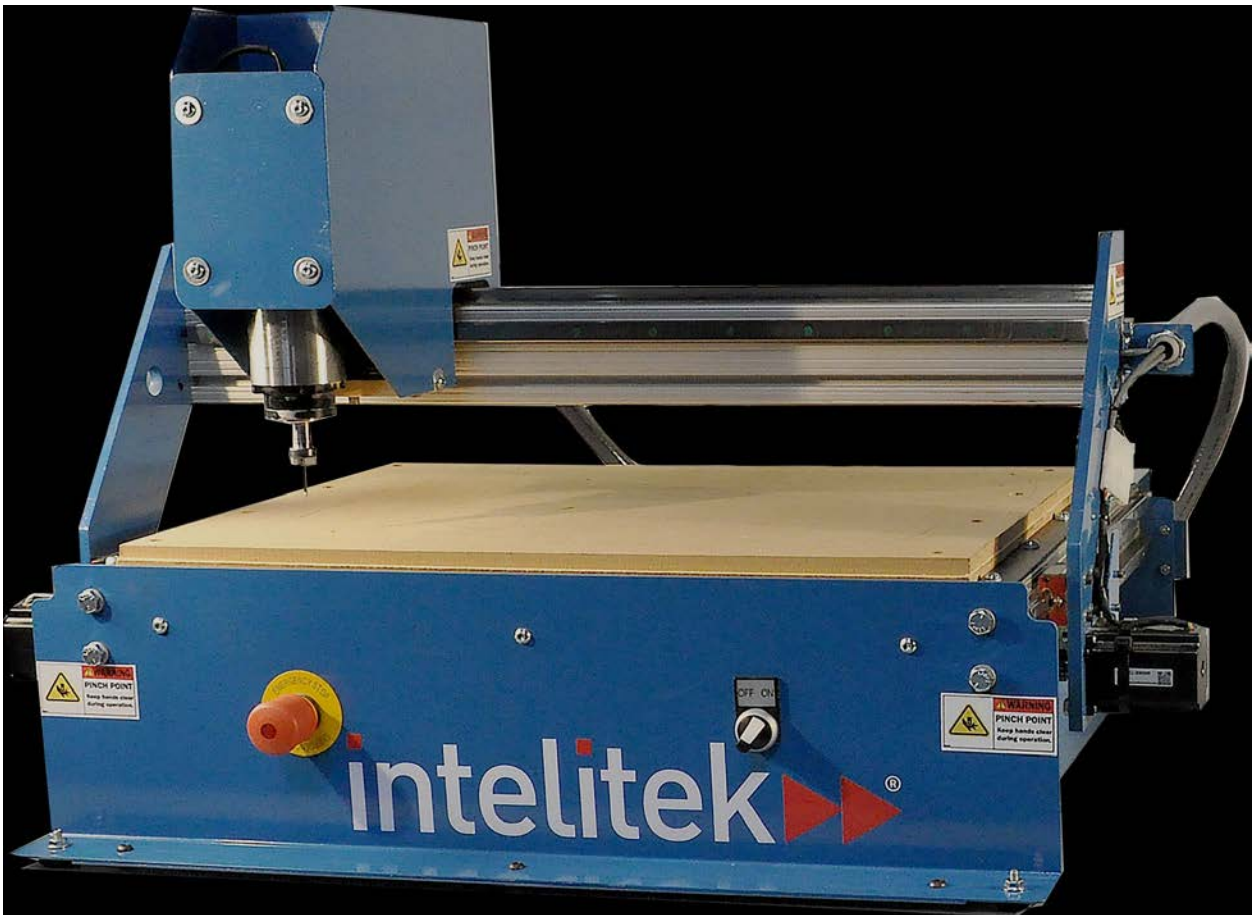


CNC Router

All-inclusive CNC program that engages students quickly with successful outcomes.



Affordable introduction to CNC equipment and cutting large flat objects. Combined in a turnkey fashion including dust collection, cutters, and express project based curriculum to get cutting fast. This is a great peripheral for any woodshop, engineering lab, or FabLab.

What does a router bring to your STEM environment?

Intelitek's package of CNC routing equipment ships with everything needed to get started quickly including starter material, all relevant CAD/CAM software's and sample G-Code projects. Just follow the easy to use getting started guide and cut!

Intelitek's experience in both CNC and educational training via Learnmate allows users to be making their own complex project quickly. This allows users to create large structures and have a hands on approach to turning 2D materials into 3D objects.



Benefits

- Allows visualization of assembly of 2D object in 3D space.
- Gives students the ability to create impressive large scale projects at a very low cost.
- Fast Paced project based learning allows students to produce results quickly to keep them motivated.
- Cut most projects in under 30 Minutes.
- Teach G-Code an industry standard, that's used with other CNC mills and lathes.
- Make impressive projects using up to 4ft x 8ft sized materials.
- Includes 30 Seats of V-Carve Pro CAD/CAM software. This allows the entire class to use the software not just a single person.



BenchRouter 1000

The complete CNC router solution

Express CNC Router Curriculum

Intelitek's brand new express curriculum is a direct, project driven course that enables students to bring objects they create to life quickly and motivates them to complete other projects. They will learn terminology related to CNC. Setting up the router using Mach3™ control software. This is followed up by five projects using Vectric VCarve Pro to produce amazing results.

Course Outline

Getting Started Routers

- Basic Terminology
- Axis of Travel
- Securing the Work Piece
- Installing a Tool
 - Tooling
- Spoil board
- Dust Collection
- Mach3 Layout
- Homing the Router
- Jogging the Router
- Setting Part Zero
- G-Code Editing
- Cutting a Sample Part

Introduction to Vectric VCarve Pro

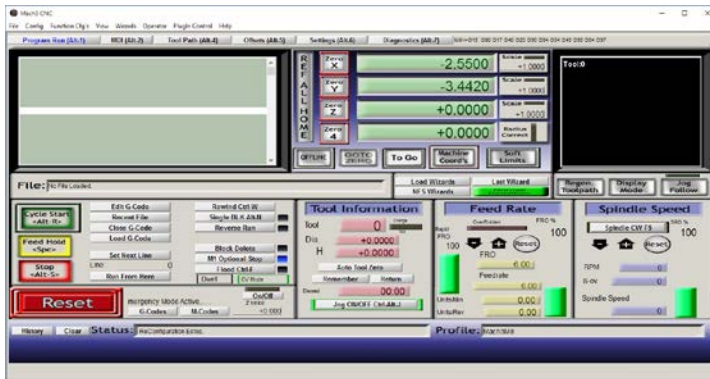
- Making a Sign
 - Setting the Part Size
 - Creating a Border
 - Creating Text
 - Cutting a Part
- Making a Gear Clock
 - Drawing
 - Closing Objects
 - Patterning
 - Fillets
 - Modifying Lines
 - Cutting a Part
- Importing a Picture
 - Importing Pictures
 - Creating Vectors
 - Feature Recognition
 - Adding Depth
 - Cutting Parts
- Importing a Drawing DXF/DWG/SVG
 - Import a DXF
 - Engraving
 - Pocketing
 - Contouring
- 3D Dinosaur Project
 - Importing Individual Parts
 - Layout Board
 - Part Spacing
 - Creating Joints
 - Running Parts



Software

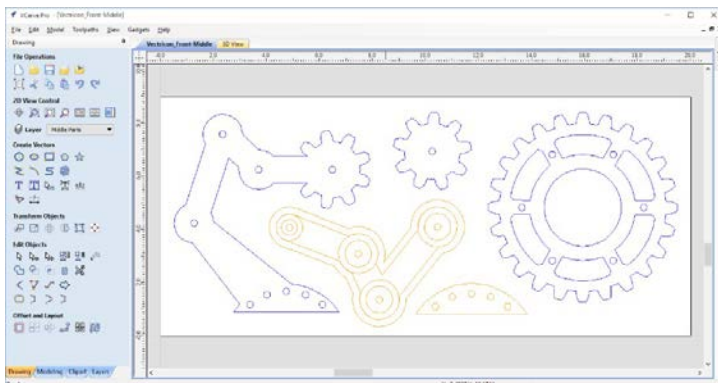
Mach3

Mach3 has become the popular choice of CNC light duty routers; feature rich and provides a great solution for a CNC control package. Mach3 works on most Windows PC's to control the motion of the router by processing G-Code into physical movements. While offering many advanced features found in more complex control systems.



Vectric VCarve Pro

After searching for the best and easiest to use CAD/CAM software for CNC routers, Intelitek chose VCarve Pro to create the files used by the router to bring projects to life. This software works with 3D / 2D files created by your favorite CAD software and popular graphics files like JPEG and SVG for those more artistically inclined.



BenchRouter 1000

Cutting area: 24in (60cm) x 16in (40cm)

- Mach 3 control software
- USB connection
- 800W liquid spindle PC controlled
- Real spindle (not router)
- 1in (25.4mm) thick MDF table
- X-Y cutting at 200ipm / (5080mm/min)
- Starter bit kit
- Shop vacuum and dust foot
- G-Code sample projects
- 2 Spare pieces of 24in x 16in x 1in MDF
- 110v / 220v
- V-Carve Pro (30 Seats)
(Requires .edu E-Mail Address)
- Manufactured in the USA

ProRouter 2100

Cutting area: 4ft (1.2m) x 8ft (2.4m)

ProRouter 2000

Cutting area: 4ft (1.2m) x 4ft (1.2m)

Machines Include

- Windows 7 64bit computer
- Mach 3 control software
- Ethernet connection
- 20V 3HP spindle PC controlled
- Real spindle (not router)
- X-Y cutting at 600ipm (15240 mm/min)
- Steel welded frame
- 1in (25.4mm) thick MDF table
- Automatic Z tool touch off plate
- 7 Piece starter cutter bit kit
- 220V 2Hp 30 micron dust collector and dust foot
- G-Code sample projects
- V-Carve Pro (30 Seats)
(Requires .edu E-Mail Address)
- Spare piece of 4ft x 8ft x 1in MDF for projects
- 220v power
- Manufactured in the USA

Specifications Subject to Change

Contact Us:

intelitek

Ronald A. Williams, Ltd.
1703 N. Parham Rd.
Suite 120
Richmond, VA 23229

800-752-6968
804-282-8239
FAX 804-282-4087
www.rawledu.com
info@rawledu.com