Contents

4. About Next Wave CNC
6. SHARK® HD Series
10. SHARK® SD Series
16. SHARK® CNC Accessories
26. SHARK SWAP
28. 10 East Steps for Getting Started
30. Offers for New Owners
31. Companies Using Next Wave CNC
About Us

Over a decade ago our co-founder and former GM Engineer, Tim Owens, built the first CNC machine in his garage which immediately sold on eBay. Using his intuitive engineering skills, Tim was hoping to support his growing family by building and selling a few more CNC machines while planning his next career move. Co-founder, Melissa Owens, has a background in marketing research, quality training, and retail management. The complimentary pairing of skills was imperative to the foundation of Next Wave Automation.

Every CNC machine Tim & Melissa built, they sold. Little did the Owens realize their life-long career path was being charted for them. Their quality CNC machines, which Melissa named the CNC SHARK®, were being heralded by professionals and hobbyists alike as the best CNC machine being built in this burgeoning industry. Woodworkers loved the CNC SHARK.

As the demand increased, Tim and Melissa formed Next Wave Automation. They secured manufacturing and warehouse space, hired production workers and other staff to begin producing the SHARK to try meet the demand. Next Wave Automation continued to grow and expand, introducing additional models that were also well received, and included placement of the SHARK in major woodworking retailers and international sales. The SHARK was a success.

Managing and running a growing Next Wave Automation proved challenging for the Owens family as they began experiencing all the entrepreneurial challenges every successful company must navigate. Quality control, supply chain management, critical team member acquisition, marketing, sales and aggressive company growth.

Next Wave Automation continues to evolve and grow, fueled by our founding principle of building the world’s best CNCs – SHARK along with powerful accessories. All made in Perrysburg, Ohio, the heartland of the USA. CNC SHARK machines continue to be recognized worldwide as one of the best CNCs available and to which all others are compared.

The next evolutionary step was to bring all our operations and products into one dynamic new home for our company which will now be known as NEXT WAVE CNC.

NEXT WAVE CNC will continue to grow through designing and building new and more advanced CNC machines, providing the best customer support, innovative software, game changing accessories and strengthening our network of quality retailers across the country.

NEXT WAVE CNC’s iconic SHARK brand is designed and built for the future.

WOODWORKING IDEAL
SHARK® by Next Wave CNC is the latest advancement for professionals and home hobbyists. Once predominantly used for cutting out parts, creative VCarve software makes high quality CNC design and carving a reality for anyone. Whether you’re working with wood, soft metals, or plastics, Next Wave CNC continues as the industry leader with our value packed SHARK line. Featuring a full one-year warranty and lifetime product support, SHARK comes complete with Vectric VCarve design software and Vector Art 3D Sampler as well as our touch screen pendant for easy operation.

**ALL NEXT WAVE HD SERIES CNCS INCLUDE:**
- Color Touch Screen Pendant
- Latest VCarve Software
- One Year Warranty
- Lifetime Tech Support
- Patented Virtual Zero Technology

**FEATURES**
- Table dimensions: 28” x 63”
- XYZ travel: 25” x 50” x 7”
- Overall dimensions: 36-1/4”W x 63”L x 24-1/2”H
- Anti-backlash, wear-compensated lead screws on all axes
- Interlocking table designed for accuracy and universal clamping
- Color Touch Screen Pendant
- Router on/off control
- Vectric VCarve design software
- Reinforced to handle larger routers such as the Bosch 1617, DeWalt DW618, or Porter Cable 890 (up to 2-1/4 HP router) including NWCNC’s water cooled spindle (sold separately)
- SKU 10024
**SHARK® HD520**

- Table dimensions: 28" x 36"
- XYZ travel: 25" x 25" x 7"
- Overall dimensions: 36-1/4"W x 36"L x 24-1/2"H
- Anti-backlash, wear-compensated leadscrews on all axes
- Interlocking table designed for accuracy and universal clamping
- Color Touch Screen Pendant
- Router on/off control
- Reinforced to handle larger routers such as the Bosch 1617, DeWalt DW618, or Porter Cable 890 (up to 2-1/4 HP router) including NWCNC’s water cooled spindle (sold separately)
- SKU 10022

**SHARK® HD400**

- Table dimensions: 16" x 36"
- XYZ travel: 13" x 25" x 7"
- Overall dimensions: 24-1/4"W x 36"L x 24-1/2"H
- Anti-backlash, wear-compensated leadscrews on all axes
- Interlocking table designed for accuracy and universal clamping
- Color Touch Screen Pendant
- Router on/off control
- Reinforced to handle larger routers such as the Bosch 1617, DeWalt DW618, or Porter Cable 890 (up to 2-1/4 HP router) including NWCNC’s water cooled spindle (sold separately)
- SKU 10020
Tight on space but still want full CNC functionality? Consider the SHARK® SD series - small format, but designed with the ability to cut, carve and create like a bigger machine. Each SHARK SD CNC can machine an inch past front edge of the table, which allows you cut joinery in boards clamped across the front of the bed. The SD Series is the perfect desk top machine for carving or engraving a large variety of projects made from wood, soft metals, or plastics. All SD Series come with Vectric VCarve Desktop software and Vector Art 3D sample pack.

**ALL NEXT WAVE SD SERIES CNCS INCLUDE:**
- Vectric VCarve Desktop Software
- Ready2Control Machine Software
- One Year Warranty
- Lifetime Tech Support

**FEATURES**
- Table dimensions: 12" x 30"
- XYZ travel: 12" x 24" x 4"
- Overall dimensions: 19-1/2”W x 30 1/2”L x 24-1/2”H
- Aluminum interlocking slotted table track for highly customizable clamping
- Includes Router on/off control
- Includes exclusive Virtual Zero - (requires optional touch plate accessory)
- Color Touch Screen Pendant
- Includes V-Groove router bit
- Includes 2 Hold Down clamps
- Ready2Control with patented Virtual Zero Unlimited software
- Requires a PC computer with USB 2.0 port (not included)
- Requires a Bosch, Dewalt, Porter Cable style palm router (sold separately)
- SKU 10014
**Features**

- Table dimensions: 12” x 18”
- XYZ travel: 12” x 13” x 3”
- Overall dimensions: 19 1/2”W x 20 1/2”L x 18”H
- Aluminum interlocking slotted table track for highly customizable clamping
- Includes Vectric VCarve Desktop design software
- Includes exclusive Virtual Zero - (requires optional touch plate accessory)
- Color Touch Screen Pendant
- Requires a PC computer with USB 2.0 port (not included)
- Requires a Bosch, Dewalt, Porter Cable, style palm router (sold separately)
- Includes 2 Hold Down clamps
- Ready2Control with patented Virtual Zero Unlimited software
- SKU 10001
The Woodwork Choice

SHARK®

The Woodworkers Choice
At Next Wave CNC we continue to develop accessories that make our SHARK® more universal and a joy to own. All accessories are designed to work directly with Next Wave CNC SHARK series and include all necessary hardware.

**CNC Accessories**

**TOUCH PLATE**
- Compatible with all Next Wave CNC machines.
- Required for using Virtual Zero available on select machines
- Solid Aluminum Construction
- 4 ft Cord (6’ extension cable also available)
- Sets Z axis at exact zero for precision cutting
- Lays flat on the material surface or machine bed
- SKU 20141

**MINI TOUCH PLATE ACCESSORY**
- Use the 1” diameter mini touch plate in tight spots, especially useful for Virtual Zero Unlimited
- Solid Aluminum Construction
- 12” patch cord with banana receiver
- Requires standard NWCNC touch plate to work (SKU 20141)
- SKU 20146
DIGITAL DUPLICATOR
• 1/4” Shank mounts directly into collet
• Duplicates surfaces to .001”
• Outputs directly as an STL file
• Supports 3D modeling
• Ruby tipped shaft to reduce surface marring
• SKU 20090

2HP WATER COOLED SPINDLE SYSTEM
• Powerful 2HP motor
• ER11 collet system includes 1/4” & 1/8” collets
• Water pump, hose and connection kit included
• 110V uses standard 20 amp circuit
• 6,000—24,000 rpm (rotations per minute) variable speed Inverter
• Spindle clamp adapts to existing router mounts
• Less than .005 mm runout
• Superior quiet operation
• Outer dimensions 80 mm x 180 mm
• SKU 20145

MINI 4TH AXIS SYSTEM
• Works on all Next Wave pendant equipped machines
• Standard #2 morse taper
• 2” self-centering 3 jaw chuck
• Plug and play design
• Mounts directly to bed of machine
• Compatible with VCarve Desktop 9.5 and above
• Hardware included
• SKU 20024

4TH AXIS ROTARY SYSTEM
• High Precision motorized 4th axis controller
• Nova MIDI 4 Jaw Chuck
• Solid Aluminum Construction
• Works with Vcarve design software
• Requires 4th axis driver card (sold separately)
• Can be mounted directly to bed surface
• SKU 20010
**DUST BOOT SYSTEM**
- Quick Remove Brush attachment allows for easy bit change
- Accepts standard dust connectors
- Replaceable Brushes - Available for all Machines
- SHARK HD Series — SKU 20006
- SHARK SD Series — SKU 20017

**SHARK TOOTH**
- 1/4” Shank mounts directly into collet
- Draw with your CNC
- Easily accepts a variety of pens / pencils
- Works with Vectric VCarve Desktop Pro and software
- All metal construction
- SKU 20028

**7 WATT SOLID STATE LASER**
- Compatible with any of our CNCs with travel of 3.5” or above
- Powerful enough to engrave just about any species of wood
- Cuts fabric, veneer, and woods up to 1/8” thick
- Works with Vectric VCarve and Aspire software programs
- Free raster program allows quick conversion of photos to laser art
- Meets current FDA laser safety guidelines
- SKU 20123

**STANDARD 2 WATT SOLID STATE LASER**
- Compatible with any of our CNCs
- Powerful enough to engrave just about any species of wood
- Cuts fabric and thin veneers
- Works with Vectric VCarve and Aspire software programs
- Free raster program allows quick conversion of photos to laser art
- SKU 20002

**DUST BOOT SYSTEM**
- Quick Remove Brush attachment allows for easy bit change
- Accepts standard dust connectors
- Replaceable Brushes - Available for all Machines
- SHARK HD Series — SKU 20006
- SHARK SD Series — SKU 20017

**SHARK TOOTH**
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- SKU 20002
MORAY DESKTOP LASER

Another New Innovation from Next Wave CNC, the Moray now brings affordability to desktop lasers. Using a powerful 7-Watt solid state laser diode the Moray accomplishes almost any engraving and light cutting project previously available only in more expensive CO2 style laser systems. The Moray software included, allows you to create files from just about any image or import them from other types of software. You can Raster, Trace, Dither, and even do light cutting on thin materials such as balsa, basswood, leather, and fabrics. Moray is also and features a 2.5" exhaust port that allows you to use any standard shop style vacuum with Hepa filter to remove smoke and fumes. For heavy use applications check out the inline exhaust system with charcoal filtering system (available separately).

- 7 Watt Solid State Laser
- LCD color display
- Includes Moray-Laser design software
- Full rastering capability
- Uses standard G-code files
- Removable bottom for large surfaces
- Compatible with Vectric’s laser design software
- 2.5” exhaust port included
- SKU 20133

VIRTUAL ZERO UNLIMITED - READY2CONTROL

Next Wave CNC SHARK® users can map the entire surface of their material by taking an unlimited number of reference points. The program uses those points to auto-adjust your current programs height and conform to the actual surface. Using the standard touch plate (purchased separately), Virtual Zero Unlimited avoids any problems caused by bowed or warped work pieces. It even allows the user to maintain a constant cutting depth on oddly shaped projects that would otherwise require the creation of a CAD 3D model. All of this comes loaded in the NEW Ready2Control panel software with features like, view your project on screen, view G-code, and access new movement controls for an amazing CNC experience.

- Available for any Pendant compatible machine
- Comes standard on all HD500 Series, as well as SD110 & SD120
- Requires PC with Windows 10 (not included)
- SKU 20215

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Dream It. Make It.
The Manufacturing Industry Learning Labs (the MiLL) originates in the classroom teaching experiences of founder, Dean Mattson. He brought years of woodworking and business expertise in Woods Manufacturing to Salem, Oregon. Within five years, his vision of a business-education partnership shaped the district’s Career Technical Education Center (CTEC).

In 2015, Mattson brought this model to Peyton, Colorado, and the district transformed an abandoned middle school into a Woods Manufacturing Lab. The MiLL - a “state of the art” woods lab and curriculum - was born. It offers training in Woods Manufacturing, Cabinet Finishing, and Construction, for high school students, colleges, military, and industry.

“Tim and Melissa Owens’ passion for helping people of all ages experience the world of CNC technology is evident at the MiLL. Through their sponsorship of our program and generosity of Next Wave CNC machines, students begin the journey of a lifelong passion,” said Mattson.

Refurbished SHARK SD100 machines will be sent to The MiLL for use in their program and awarded to teachers completing The MiLL’s teacher training program. This gives a participating teacher the opportunity to add or expand CNC training for students at their home school – Thanks to YOU, The MiLL and Next Wave CNC.

Interested in how the MiLL could help your school? Email us at info@nextwavecnc.com and we’ll connect you.
10 Easy Steps To CNC Carving With A SHARK®

1. Create a new file
2. Import and trace an image
3. Add desired text
4. Organize and refine the design
5. Select a toolpath
6. Select a router bit, set the feed, and cutting depth and router speed
7. Preview and save to a thumb drive
8. Clamp your material to the CNC
9. Insert thumb drive into the Pendant and rout your design
10. Sand, paint and finish
QUICK START FOR SHARK® OWNERS

FREE LIVE WEBINAR

New Owners Intro to CNC
Hosted by
Randy Johnson
Author, Trainer and
CNC Expert

Dates, times and registration info at
NextWaveCNC.com/webinars

MUST-HAVE FOR SHARK ENTHUSIASTS

“CNC Router Essentials”
Written by
Randy Johnson

Available at retailers or online at
NextWaveCNC.com