

TOOLS

While most of the cutting and other woodworking have been completed for your kit, you will need to do a minimal amount of cutting, planing, and other woodworking. The following is a list of tools that are either necessary or recommended for completion of your boat.

Required Tools:

- Tape Measure - Metal blade at least as long as your boat with a locking mechanism.
- Carpenter's Square - Large 24"x16" for frames, a smaller one is adequate for the boat.
- Hand Saw - Preferable a Japanese pull style flush cut or finishing saw (commonly called Dozuki). These saws provide a clean, narrow cut that can be controlled very accurately. These are available at many woodworking stores for \$40 - \$60 and a cheaper version by the name 'Shark Saw' is commonly available for about \$25.
- Power Drill - Virtually any power drill do. I prefer a cordless for its convenience. You could also use a hand drill for most holes.
- Drill Bits - You'll need a variety of drill bit sizes including: 1/16, 1/8, 3/16, 1/4, and 5/16 inch wood twist bits and a 3/4 inch spade bits.
- Block Plane - Stanley makes a decent, inexpensive (\$35) block plane (#G12 060) with an adjustable throat. This is for shaping the side rails.
- Screw Drivers - A #2 Philips and a straight blade.
- Clamps - How many? Can a boat builder ever have too many clamps? I recommend the following at a minimum:
C-clamps: 15 - 2", 4 - 4" (the Quick Grip® bar clamps from American Tool are very handy)
Spring clamps: 4 - 4"
Strap Clamps: 2 - 8'
- String Line - Or a chalk line for checking the lines on the form or boat.
- Saw Horses - You need two or more saw horses, adjustable height is better.
- Utility Knife - Very useful tool
- Scissors - Sharp scissors for cutting fiberglass cloth and plastic sheeting
- Adjustable Wrench - Or a couple of open end or box wrenches will do.
- Safety Equipment - Respirator for use during epoxying, painting/varnishing, and sanding. Gloves (supplied with kit). Water proof apron or Tyvek® coverall. Safety goggles.

Recommended tools:

- Random Orbital Sander - This will save you probably 100 hours of hand sanding, not to mention carpal tunnel or tendinitis.
- Belt Sander - Very useful for shaping the cockpit coaming and side rails.
- Wood Chisel - A ½ or ¾ inch chisel can be valuable at times for making parts fit.
- More clamps - A boat builder can never have too many clamps.
- Staple Gun - Used once for installing the transom can also be used to help with the deck installation.

Supplies/Materials that you supply:

This will vary depending on the kit level that you bought. If you're working from panels only, you'll need to supply your own dimension lumber. We recommend 7/8" cedar, pine, redwood, or spruce for the shear clamps transom, and stern, and either white oak or ash for the rub rails. Fiberglass on the inside of the hull and top of the deck are 3.5 oz. and the outside of the hull is 6 oz.

- Sand paper - You may want 60, 100, 150, and 220 grit. The 220 grit is only necessary if you will be painting your boat.
- Plastic sheeting - 3 mil plastic sheet for covering the floor of your work area.
- Plastic wrap - Yes this is what you use in your kitchen. You use it when clamping because epoxy doesn't stick to it.
- Brushes/Rollers - There should be enough brushes and rollers in a complete kit but you may need more depending on how economically you use your supplies.
- Clear Packing Tape - Used for some assembly steps.
- Masking Tape - Used for masking before painting.