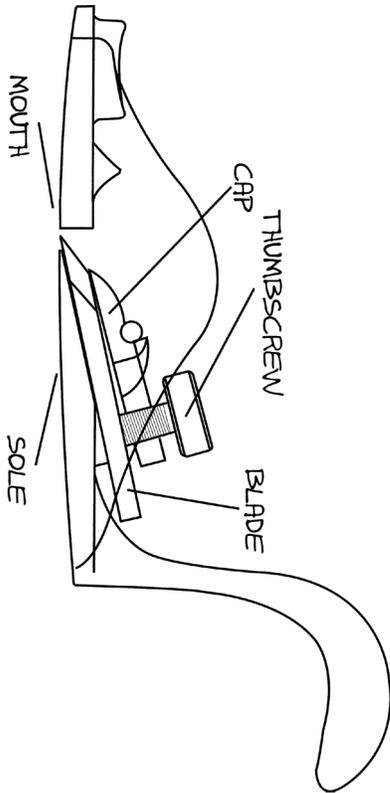


CONVEX SOLE BLOCK PLANE



Lie-Nielsen
TOOLWORKS[®]
INC.

Heirloom Quality Tools[®]

Convex Sole Block Plane

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Made in Maine, USA, since 1981

Convex Sole Block Plane

Our Convex Sole Block Plane is a miniature workhorse that will do a great job of hollowing chair seats, moldings, and shaping other concave work.

Plane is 4 $\frac{7}{8}$ " long and 1 $\frac{1}{4}$ " wide. Weight is 8.8 oz.

Geometry: The sole has a radius of 3" from side to side, and 27" from front to back.

Blade is $\frac{7}{8}$ " wide and $\frac{1}{8}$ " thick. It has a radius of $\frac{7}{8}$ ", and sits in the body at 20°, bevel up.

The radius on the mouth is 1 $\frac{3}{16}$ ". The smaller blade radius of .900" means that the corners of the blade will not protrude from the mouth when set for a medium or fine shaving.

Blade Sharpening: The blade comes ready to use. Additional honing will improve performance.

For Honing: One method is to plane a groove in softwood with the blade set for a coarse cut. Charge the resulting groove with honing compound and hone the blade by pulling backwards through the groove.

Another method is to shape a groove in a spare or broken waterstone with a $\frac{7}{8}$ " dowel wrapped with coarse (60-100 grit) sandpaper. Hone the blade by pulling through the groove.

For Grinding: Re-grind as necessary, following the original bevel angle and radius as closely as possible. Marking the bevel with a felt marker will help you see what you are doing.

Blade Adjustment: Slightly loosen the pressure of the cap and advance or retract the blade. Tighten the thumbscrew.

Materials: Fully stress-relieved Ductile Iron body. Manganese Bronze cap.

The blade is A2 Tool Steel hardened to Rockwell 60-62, cryogenically treated and double tempered. Our heat treating technique ensures that the blade will take and hold a very fine edge for a long time. After heat treating, the blade is fully surface ground on the top, back, and cutting edge, giving a smooth, flat surface that will take a mirror finish very quickly. The $\frac{1}{8}$ " thickness provides solid, chatter-free cutting.

Maintenance: The tool should be kept lightly oiled to prevent rust, especially when not in use. We recommend Jojoba Oil, a plant based oil product that is non-toxic, odor-free and easy to use. Also, in our shop, we use a fine abrasive handblock to remove any light surface oxide from tool bodies and blades. Oil and the abrasive handblock are available from us.

Guarantee: Materials and workmanship are guaranteed for the life of your tool. Call for repairs or replacement parts. We are available for advice if you ever have a problem using your tool.

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WARNING: This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Wash hands after handling.