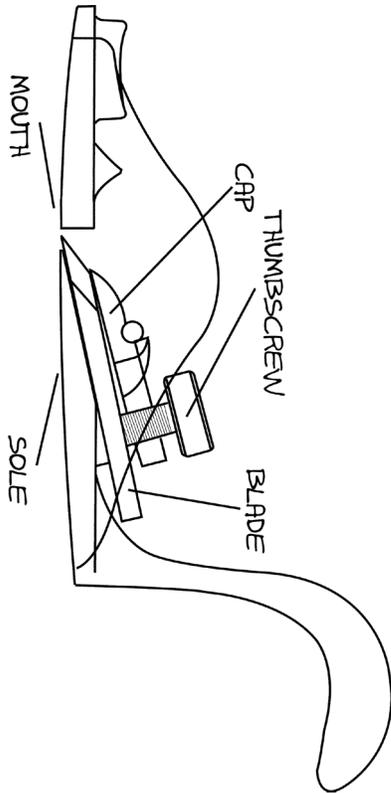


CONVEX SOLE BLOCK PLANE



Lie-Nielsen  
TOOLWORKS<sup>®</sup>  
INC.

*Heirloom Quality Tools<sup>®</sup>*

## 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](http://www.P65Warnings.ca.gov). Wash hands after handling.