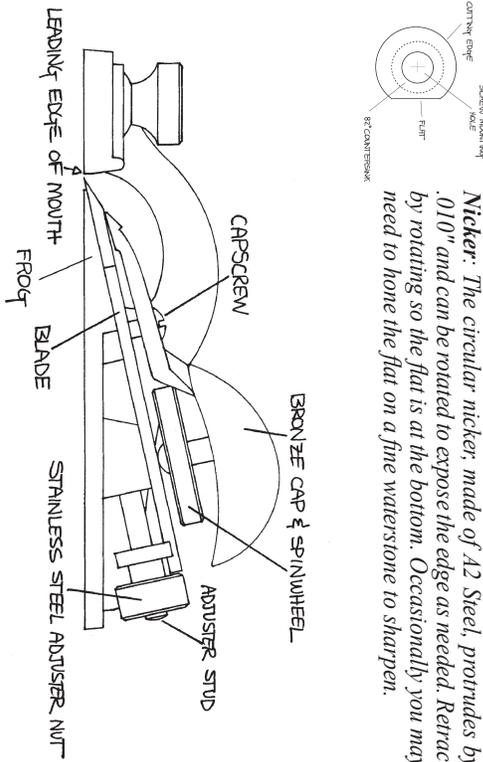


# RABBET BLOCK PLANE



**Nicker:** The circular nicker, made of A2 Steel, protrudes by .010" and can be rotated to expose the edge as needed. Retract by rotating so the flat is at the bottom. Occasionally you may need to hone the flat on a fine waterstone to sharpen.

**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.

## Rabbet Block Plane

Our low angle, fixed-mouth, Rabbet Block Plane is based on the Sargent No. 507. It has open sides with a blade that extends the full width of the body, making it ideal for cutting small rabbets and trimming tenons to fit. The body is 1-3/4" wide, 6-1/4" long, and ground flat and square to .001". When set to cut, two circular nickers protrude .010" on each side for scoring cross-grain cuts. The mouth is fixed, and set to take a maximum .005"-.008" shaving. If this is too tight for your work, file a small chamfer on the leading edge of the mouth to increase chip clearance.

**Geometry:** The blade is flat ground at 25° and sits bevel up in the body at 12°, making the included cutting angle 37°.

**Blade Sharpening:** The blade comes ready to use, but honing a secondary bevel of 5° will increase performance, help achieve a razor edge quickly, and improve edge life in hardwoods. For information on sharpening, we recommend David Charlesworth's video, *Plane Sharpening*, available via our website in both DVD and streaming formats.

**Blade Adjustment:** Hold the tool in one hand, with your fingers supporting the sole, and your thumb on the cap iron just in front of the screw. Loosen the spinwheel and, with your thumb still holding the blade and cap, adjust the blade. Tighten the spinwheel. **Do not overtighten** — you should be able to adjust the blade after loosening the spinwheel about a quarter turn. Since the sides of the body are open at the mouth, the "frog" may flex under the blade as pressure is applied to the cap iron via the spinwheel. Very little pressure is necessary to hold the blade, so if you wish to minimize the flex, back the spinwheel off a bit. We have intentionally left the leading edge of the frog section thick for strength. The blade is about .005" wider than the body. Align the edge of the blade with the side of the body that you want it flush with. Laying the tool on its side can help you do this quickly and accurately.

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

Heirloom Quality Tools<sup>®</sup>

## Rabbet Block Plane

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Made in Maine, USA, since 1981

**Nicker:** The circular nicker, made of A2 Steel, protrudes by .010" and can be rotated to expose the edge as needed. Retract by rotating so the flat is at the bottom. Occasionally you may need to hone the flat on a fine waterstone to sharpen.

**Materials:** The body is cast from Ductile Iron, a very strong alloy that will take a lot of abuse. These castings are fully stress-relieved, a process that removes inherent stresses and ensures that the tool will remain flat and true. The cap is Manganese Bronze. Other parts are Brass; the adjuster nut is Stainless Steel. 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 1/8" thickness provides solid chatter-free cutting.

**Maintenance:** The body casting is ground dead flat. Occasional hand lapping with fine wet/dry sandpaper (320 grit or higher) on a flat surface will help remove dings and keep it true. If you ever decide to surface the sole, be careful not to remove too much material. The Bronze cap can be polished with any good brass polish or left to patina with age and use. Occasionally the tool should be disassembled, cleaned and moving parts oiled. A light oiling on the adjuster stud will keep the nut moving freely. The blade should be kept lightly oiled to prevent rust, especially when the tool is 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. Jojoba Oil and abrasive handblocks 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.