



Lie-Nielsen TOOLWORKS[®] INC.

Heirloom Quality Tools[®]

Small Chisel Plane

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Made in Maine, USA, since 1981



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.

Small Chisel Plane

After making some prototypes of this interesting and unusual plane, discontinued by Stanley in 1944, it became apparent that a smaller version would be handy. So we offer the Chisel Plane in a half size, 6 ½" (16.51cm) x 1 ¾" (4.44cm).

A Chisel Plane is not meant to function as an ordinary plane because it has no support ahead of the blade. However, as a clean-up tool, with the blade set flush with the sole, this plane excels at removing glue, trimming plugs and dovetails flush and also for working into hard-to-get-at corners, rabbets, etc.

Pressure on the rear knob will keep the body flat on the workpiece. In many cases, the Small Chisel Plane will best be used with two hands, one pressing on the back half, and the other guiding the front. The extra heavy 3/16" blade should be kept very sharp, and extra care should be taken to avoid getting your fingers near the sharp edge.

Geometry: The blade is bedded in the tool at 12° with a 25° bevel, 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: Blade adjustment is simple, direct and positive. Hold the tool in one hand with your thumb on the cap. Loosen the cap iron thumbscrew all the way, then tighten slightly until there is a little resistance. Adjust depth of cut with the stainless steel nut. When you are done, snug the cap thumbscrew. **Do not overtighten.**

Materials: We use Manganese Bronze for the bodies. 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 also Manganese Bronze. Cherry knob, other parts are Brass and 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.

Maintenance: The Bronze bodies are lapped to a tolerance of less than .001". Depending on how much you use your tool, an occasional light sanding with 400 or finer wet/dry paper on a flat surface will keep the sole in as-new condition.

A light oiling on the threaded rod and adjuster nut will keep them moving freely. 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.

Many people like the patina that Bronze gets with age and use, but if you wish to keep the finish bright, a little brass polish is in order.

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.