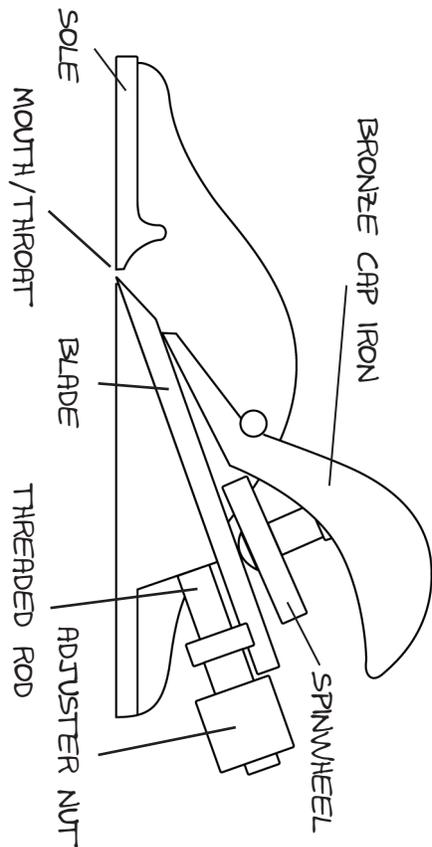


## VIOLIN MAKER'S BLOCK PLANE



# Lie-Nielsen TOOLWORKS® INC.

*Heirloom Quality Tools®*

## Violin Maker's Block Plane

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*Made in Maine, USA, since 1981*

## Violin Maker's Block Plane

This pocket-sized block plane is the smallest of our hand planes to feature a captive nut blade adjuster for precisely controlled depth of cut. Loosely based on the Stanley No.101 block plane, the Lie-Nielsen Violin Maker's Plane features several significant improvements that put it in a class of its own. The body and cap are made from Manganese Bronze for extra weight, durability, and resistance to rust. The blade is made from  $\frac{1}{8}$ " thick cryogenically treated A2 steel for chatter-free cuts and prolonged edge life. The addition of a finely controlled blade depth adjuster make this little workhorse perfect for detail-oriented jobs like instrument building or model making.

The body is  $3\frac{7}{16}$ " long x  $1\frac{3}{16}$ " wide x  $1\frac{5}{8}$ " tall. The blade is  $\frac{7}{8}$ " wide x  $\frac{1}{8}$ " thick, bedded at 18°. Weight is 0.50 lbs. The mouth of the plane is made to take a maximum .008"-.010" thick shaving, which is suitable for most woodworking.

**Geometry:** The blade is bedded in the tool at 20° with a 25° bevel, making the included cutting angle 45°.

**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:** Slightly loosen the pressure of the cap and advance or retract the blade. Tighten the spinwheel. **Do not overtighten.** You should be able to adjust the blade after loosening the spinwheel about a quarter turn.

**Materials:** We use Manganese Bronze for the body of this plane. Our 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; 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 polish very quickly. The  $\frac{1}{8}$ " thickness provides solid, chatter-free cutting.

**Maintenance:** The Bronze body is lapped flat. Depending on how much you use your tool, an occasional light sanding with 400 grit or finer wet/dry paper on a flat surface will keep the sole in as-new condition. A light oiling on the threaded rod, adjuster nut and spinwheel will keep them moving freely. We recommend Jojoba Oil, a vegetable oil based 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.

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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.