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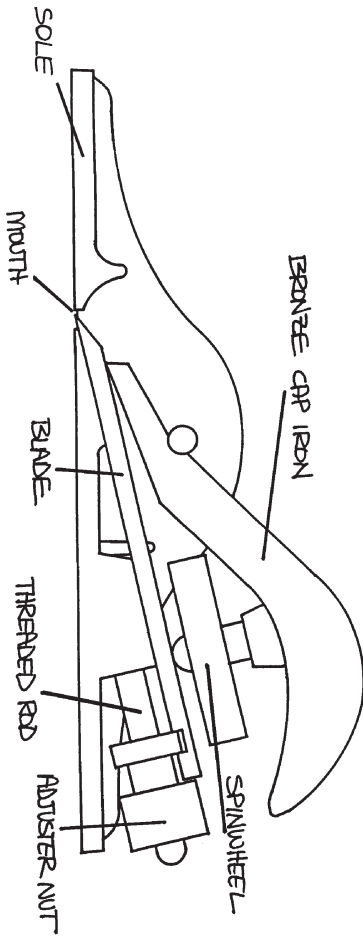
Violin Maker's Block Plane

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Makers of
Heirloom Quality Tools[®]



Block Plane Anatomy

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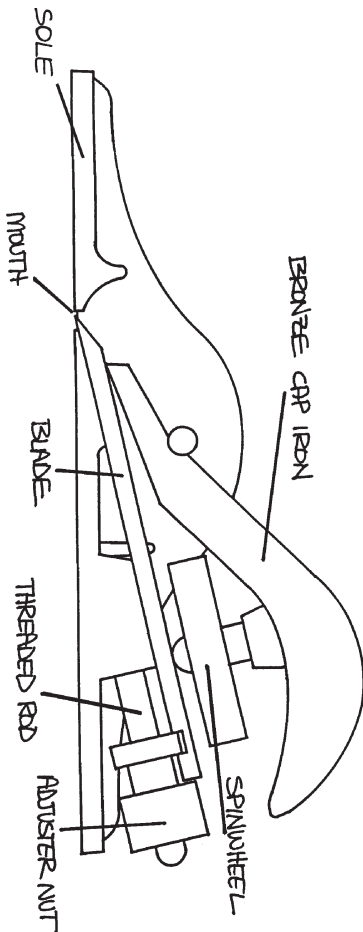
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Block Plane Anatomy

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 1/8" thick cryogenically treated A-2 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 1/16" long x 1 3/16" wide x 1 5/8" tall. The blade is 7/8" wide x 1/8" thick and bedded at 18°. Weight is 0.50 lbs. The mouth of the plane is made to take a maximum .008-.010" cut, which is suitable for most woodworking.

Geometry: The blade comes with a 25° flat ground bevel. It is bedded in the plane at 18°, giving you a cutting angle of 43°.

Blade Sharpening: The blade comes ready to use. Slight additional honing will increase performance. A secondary bevel of up to 5° helps achieve a razor edge quickly. For more information on advanced sharpening, we suggest David Charlesworth's DVD *Hand Tool Techniques Part 1: Plane Sharpening*.

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.

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The cap is also Manganese Bronze; other parts are Brass and Stainless Steel.

The blade is A-2 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 Bronze body is lapped flat. 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, adjuster nut and spinwheel will keep them moving freely. We recommend Camellia or Jojoba Oil, which are natural, non-toxic, odor-free, vegetable-based products that are very easy to use.

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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Prop. 65 Warning: Bronze and brass alloys contain lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

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