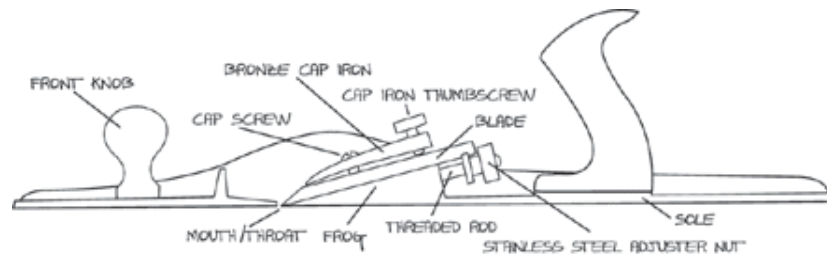


Lie-Nielsen Toolworks Product - Use and Care Instructions

Low Angle Jointer



Our Low Angle Jointer is the largest Low Angle Block Plane ever produced. It is as big as a No. 7, but with a much simpler design that is quick and easy to set up, and is excellent for a wide variety of work.

Geometry: The blade sits in the body bevel up at 12°. It comes with a 25° flat ground bevel, making the included cutting angle 37°.

Blade Sharpening: The blade comes ready to use. Slight additional honing will increase performance. We recommend a secondary bevel of 1° or 2°, which is most easily accomplished with a good honing guide. This will improve edge retention, especially in hard woods. Further modifications of the bevel angles can be made to suit your style and the work. Even higher secondary bevels (up to 40°) will enhance performance on difficult woods. Re-hone frequently. A dull blade will not do good work.

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. Sight down the base of the tool from the front, and judge depth and squareness of the blade by the thin dark line of the blade showing against the sole as it protrudes. When you are done, snug the cap thumbscrew. Do not over tighten.

Lateral Adjustment: The Low Angle Jointer intentionally has very little lateral adjustment of the blade. This is an advantage. As you adjust the blade, it will track squarely with the sole. The disadvantage is that you must sharpen the blade square. Today there are many good jigs on the market that make this easy to do. If you find that you don't like this feature, you can grind the blade narrower to give more lateral play.

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, Steel and Cherry.

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The blade is 1/4" A-2 cryogenically treated Tool Steel, double tempered to Rockwell 60-62. 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 thick blade provides solid, chatter-free cutting.

Maintenance: The sole is ground flat to .0015" or less. Occasional hand lapping with fine wet/dry sandpaper (320 grit or higher) on a flat surface like a glass plate, will help remove dings and keep it true. The cap iron can be polished with any good brass polish, or allowed to patina with age and use.

Occasionally, the tool should be disassembled, cleaned, and moving parts oiled. The blade should be kept lightly oiled to prevent rust, especially when tool is not in use. Waxing or oiling the body will help protect it from rust. In our shop, we use a fine abrasive handblock (available from us) to remove light surface oxide from body or blade.