

# Lie-Nielsen TOOLWORKS® INC.

*Heirloom Quality Tools®*

## Hand Scrapers

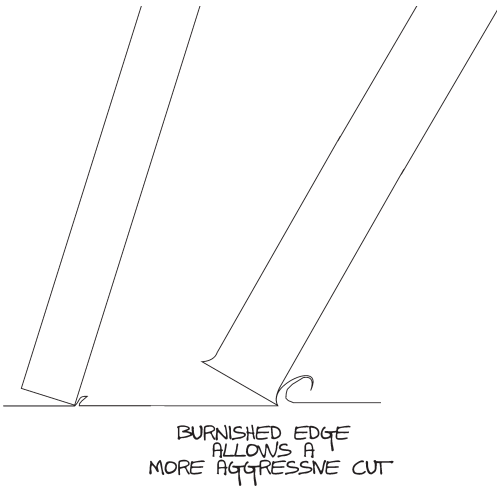
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*Made in Maine, USA, since 1981*



## HAND SCRAPERS

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## Hand Scrapers

Your scrapers can finish surfaces that are impossible to plane. However, if you work too long in one area, it is hard to control the flatness of the entire surface. A scraping plane is useful to use in combination with hand scrapers. Work difficult areas with the hand scrapers as needed; keep the surface flat with the scraping plane.

The thinner blade (.020") is quite flexible, and is great for scraping shorter, complex surfaces. The thicker blade (.032") will take a heavier cut, and is best for larger surfaces.

**Materials:** The Lie-Nielsen Hand Scrapers are made from premium, high carbon Swedish Tool Steel hardened and tempered to Rockwell 49-51. They will take a burr well and last a long time. The long sides have been ground square. If you wish to use the short sides, file square before burnishing.

**Burnishing:** Before you use the scraper, it is helpful, but not absolutely necessary, to turn a burr on the edges. **Use of a burr will give more aggressive cutting action.**

To create a burr, hold the scraper upright in a vise. Use a burnisher and begin by holding the burnisher at 90° to the blade, decreasing the

angle with successive passes. Work the edge until you can feel a distinct 'hook' all the way across. Be very careful not to cut yourself on the upright scraper.

When re-sharpening, first hone the old burr off, then square the edge with a stone or file, and repeat the burnishing process. You can usually re-burnish a few times before it becomes necessary to square the edge.

**Gooseneck Scrapers:** When burnishing a Gooseneck Scraper, you may need to use a round or curved face file to get into tight radii.

**Maintenance:** The scrapers are made of Steel and will rust. Keep them lightly oiled and wrapped in cloth or treated paper when storing the scrapers between uses. 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. We are available for advice if you ever have a problem using your Hand Scrapers.