

Engraving Cutters

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Drilling & Cutting Tools

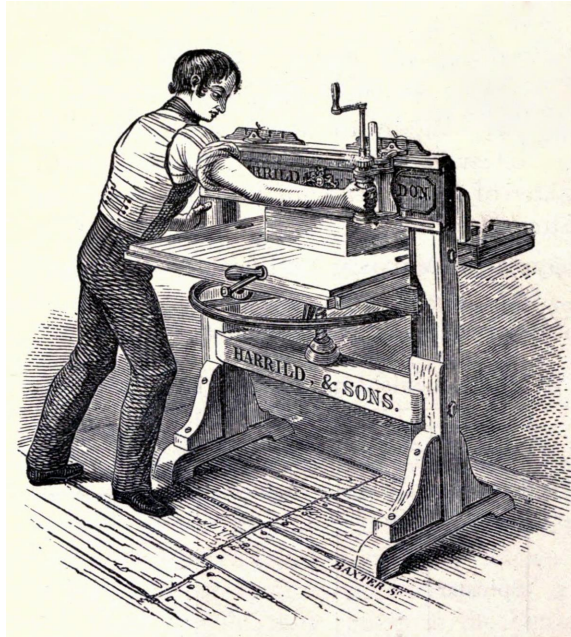


Photo: George Baxter — Public domain — via Wikimedia Commons (1820s_paper_cutter_woodcut_engraving_by_George_Baxter.jpg)

Engraving cutters are small carbide or HSS bits with pointed, V-shaped or ball-nose tips used to engrave text, lines and textures into metal, wood, acrylic and glass. They fit rotary tools, CNC machines and pantographs for name plates, signage and decorative work.

Key Features

- Pointed, V, ball and flat tip profiles
- Carbide for metal, HSS for other materials
- Shaft sizes 2.35, 3.175 and 6 mm
- Fluted and single-point styles
- Suitable for nameplates and signage work

Typical Uses in the Workshop

- Engrave names and numbers on nameplates
- Cut fine detail into acrylic signs
- Line and texture decorative metalwork
- Engrave tool labels and equipment tags

Safe Operation

1. Select the cutter tip for line width wanted
2. Set the depth and speed for the material
3. Start on scrap to set the depth
4. Engrave with light even pressure
5. Clear chips and lubricate for metal work

SAFETY NOTES

- Keep fingers clear of the spinning cutter
- Wear eye protection against chips
- Secure the workpiece firmly
- Unplug tools before changing cutters
- Store cutters protectively - tips chip easily

Maintenance & Consumables

- Keep tips sharp; resharpen or replace when worn
- Clean resin and swarf from flutes
- Store in a labelled holder or case
- Check the shank grip in the collet
- Replace chipped carbide tips promptly

Specification & Buying Notes

Buy carbide engraving bits in the tip styles the workshop uses with proper shank sizes for the machines. A V-tip set plus a ball-nose set covers most engraving jobs.