

Jeweler's Saw Frames

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



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A jeweler's saw is a fine-bladed frame saw used for cutting intricate shapes in sheet metal, brass, copper and acrylic. The very thin blades cut tight curves and fine detail, making it essential for jewellery, model making and precision metalwork in school workshops.

Key Features

- Adjustable frame depths from 50-100 mm typical
- Fine blades from 0/0 to 6/0 for different sizes
- Quick-release or wing-nut blade tensioning
- Lightweight aluminium or steel frames
- Blade holders that grip without crushing

Typical Uses in the Workshop

- Cut intricate shapes in sheet metal and acrylic
- Make jewellery blanks and pendants
- Cut into the middle of sheets through drilled holes
- Produce fine fretwork in brass and copper

Safe Operation

1. Fit the blade with teeth pointing down toward the handle
2. Tension the blade until it rings when plucked
3. Punch or drill a hole to insert the blade for internal cuts
4. Saw with long, even strokes and let the blade cut
5. Turn the work, not the saw, to follow curves

SAFETY NOTES

- Blades are very fine and snap - wear eye protection
- Keep fingers clear of the blade path
- Support the sheet close to the cut line
- Never force the blade; let it do the cutting
- Store saws with blades loosened

Maintenance & Consumables

- Keep spare blades in graduated sizes
- Wipe the frame and oil the tension thread
- Replace blades as soon as they bind or bend
- Check the blade holders for wear
- Store in a roll to protect the frame

Specification & Buying Notes

A solid aluminium frame that tensions evenly and a set of assorted fine blades are the essentials. Buy blades from 4/0 to 1 for school work, and a bench pin or sawing board to support the work.