

Precision Pin Vice Drill Bit Sets (Micro-bits)

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

Precision micro-drill bit sets pair with pin vices and small drills for holes from 0.3 mm up, in PCB work, model making, jewellery and fine instruments. Hardened steel micro-bits cut clean small holes where standard drills are far too large.

Key Features

- Sizes 0.3-3.0 mm in sets
- HSS and carbide grades
- Fits pin vice collets
- Indexed storage cases
- Specially ground points

Typical Uses in the Workshop

- Drill fine PCB and model holes
- Pierce jewellery and instrument work
- Start micro taps and pins
- Delicate timber and plastic drilling

Safe Operation

1. Select the bit for the hole size
2. Grip the shank firmly in the collet
3. Mark and support the work
4. Drill with light even pressure
5. Clear swarf frequently

SAFETY NOTES

- Micro-bits snap easily - use light pressure
- Wear eye protection against broken bits
- Support the work close to the hole
- Store bits in the case with points protected
- Do not use at too high speed in wood

Maintenance & Consumables

- Return bits to the case sockets
- Check for bends and chips
- Replace broken sizes
- Keep the case labelled
- Store dry with the light oil

Specification & Buying Notes

Quality HSS micro-drill sets in indexed cases with the pin vice cover school fine work. Good steel holds the edge; cheap micro-bits bend at first contact.