

Rotary Tool Kits (e.g., Dremel)

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



Photo: W.carter — CC BY-SA 4.0 — via Wikimedia Commons (Jewellery_rotary_tools_in_G?seberg.jpg)

A rotary tool is a small high-speed handpiece that spins interchangeable accessories for cutting, grinding, sanding, polishing, carving and drilling. Kits come with a wide range of bits and are the most flexible tool for fine, detailed and hobby work.

Key Features

- Speeds up to 35,000 rpm
- Collets and chucks for accessory shanks
- Kits with 30-200 accessories
- Variable speed dials
- Flexible shaft attachments optional

Typical Uses in the Workshop

- Cut and shape small parts precisely
- Engrave wood, metal and acrylic
- Carve and sand models and jewellery
- Drill tiny holes with micro bits

Safe Operation

1. Select the accessory and fit it fully
2. Start at low speed and increase as needed
3. Use light, even pressure against the work
4. Move steadily; let the accessory do the cutting
5. Switch off and wait for it to stop before changing bits

SAFETY NOTES

- Wear eye protection - accessories can shatter
- Keep fingers away from the spinning tool
- Do not touch the shaft while it runs
- Check accessories for cracks before use
- Unplug before changing accessories

Maintenance & Consumables

- Clean the collet and chuck regularly
- Keep vents clear of dust
- Replace brushes when the motor sparks
- Store accessories in the kit case
- Check the flex shaft for kinks if used

Specification & Buying Notes

A variable-speed kit with a good accessory selection and a flexible shaft covers the most school tasks. Add a work stand and a mini drill press base for accurate drilling.