

Cordless Multi-Tools (Oscillating)

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



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An oscillating multi-tool drives tool heads at high frequency through a small arc, cutting, sanding, scraping and grinding in tight spots with interchangeable blades. It cuts flush, plunges into materials and sands corners no other tool reaches.

Key Features

- Oscillation angles of 1.4-3.2 degrees
- Tool-free quick-change heads
- 10,000-20,000 oscillations per minute
- Universal attachment systems
- Battery and corded versions

Typical Uses in the Workshop

- Cut flush against walls and frames
- Plunge cut openings in panels
- Sand corners and profiles
- Scrape paint, adhesive and grout

Safe Operation

1. Fit the head for the task
2. Set the speed for the material
3. Apply light pressure and let the tool work
4. Cut flush along the guide line
5. Change heads with the tool off

SAFETY NOTES

- The vibration is strong - hold firmly
- Keep fingers clear of the blade heads
- Wear eye protection and consider ear protection
- Do not force the cut
- Switch off before changing heads

Maintenance & Consumables

- Check the heads for wear and cracks
- Clean the tool body of dust
- Lightly grease the drive spindle
- Keep the head clips clean
- Store in the case with heads

Specification & Buying Notes

A multi-tool with a starter head set (plunge, flush, sanding) covers most workshop needs. Match the platform to other tools. Quality quick-change heads save classroom time.