

Hole Saw Kits

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



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A hole saw is a cylindrical saw with teeth around its rim that cuts large clean holes in wood, plasterboard, plastic and light metal, with a pilot drill centring it. Kits include several diameters plus arbors for different shank sizes.

Key Features

- Sizes from 20 to 150 mm in kits
- Bi-metal teeth cut wood and light metal
- Pilot drill centres the cut
- Arbors with quick-change pins
- Depth of cut around 30-50 mm standard

Typical Uses in the Workshop

- Cut holes for cables, pipes and conduit
- Drill speaker, fan and switch cut-outs
- Cut large circular holes in carcasses and panels
- Bore clean holes in door blanks for locks

Safe Operation

1. Mark the centre and pilot-drill if needed
2. Fit the correct arbor and saw size
3. Drill at low speed with steady pressure
4. Remove the slug from the saw with the ejector spring
5. Clear chips between holes

SAFETY NOTES

- Keep fingers clear of the toothed rim
- Clamp the work; holesaws grab on breakthrough
- Wear eye protection against slugs and chips
- Do not force - let the teeth cut, not bind
- Remove the arbor pin before changing saws

Maintenance & Consumables

- Clean the saw teeth with a wire brush
- Replace worn pilot drills
- Check the arbor pins are not bent
- Store sizes in a labelled case
- Lightly oil the arbor threads

Specification & Buying Notes

Buy a bi-metal set covering the sizes the workshop uses most (25-100 mm) with at least two arbors. Check the pilot drills of quality; they bend first on cheap kits.