

Enclosure Boxes for Electronics (ABS project boxes)

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping

ABS project enclosures house finished electronics neatly and safely, with removable lids, PCB mounting bosses and features like battery compartments. The right box protects the circuit, the user and the look of the project.

Key Features

- Sizes from small modules to bench cases
- ABS plastic with UL ratings
- PCB mounting bosses
- Screw or snap lids
- Customisable panels

Typical Uses in the Workshop

- House finished robot controllers and sensors
- Protect power supplies and chargers
- Build switch boxes and instruments
- Finish products with a professional case

Safe Operation

1. Plan the layout before drilling
2. Mark with a centre punch and scribe
3. Drill and file the holes square
4. Mount the PCB on the bosses
5. Fit the lid and check the wiring fits

SAFETY NOTES

- Wear eye protection when drilling boxes
- Deburr drilled holes - fingers and wires get cut
- Check ventilation for heatsinks
- Keep mains wiring away from the lid edges
- Store boxes by size

Maintenance & Consumables

- Keep boxes sorted by size
- Protect from heat that warps ABS
- Check the lid screws and clips
- Clean with a dry cloth
- Keep spare holes plugs in stock

Specification & Buying Notes

Stock a range of conventional ABS boxes with PCB bosses covering module sizes. Quality ABS stays rigid and cuts clean; cheap styrene crack and warp. Add panel-mounted sockets to the kit.