

Plastic Shredders for Recycling Stations

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | 3D Printing, Laser & CNC



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A plastic shredder breaks failed prints, offcuts and plastic waste into granulate-sized pieces that can be recycled, re-extruded or sorted. Desktop shredders with safety interlocks sit at the start of the workshop recycling loop.

Key Features

- Cutting widths 100-300 mm
- Blades for PLA, ABS and PETG
- Safety interlocks and hoppers
- Feed rate controls
- Granulate output sizes

Typical Uses in the Workshop

- Shred failed 3D prints for recycling
- Reduce waste volume before disposal
- Feed filament recyclers
- Create granulate for other projects

Safe Operation

1. Sort the plastic by type first
2. Feed pieces slowly into the hopper
3. Use the push stick, never fingers
4. Collect the granulate in the bin
5. Clean the hopper after use

SAFETY NOTES

- Never reach into the hopper or blades
- Wear eye protection - pieces fly
- Only shred the plastics it is rated for
- Keep the interlock working
- Store the shredder guarded

Maintenance & Consumables

- Check the blades sharpen and alignment
- Clean the hopper and output
- Lubricate the gear mechanism
- Replace worn blades
- Keep the guards in place

Specification & Buying Notes

A lab shredder with interlocks and blade sets suits a printing club rather than whole classes. Quality blades cut clean granulate; cheap shredders stall and jam.