

Ultrasonic Cleaners for Small Parts

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Cleaning & Maintenance

An ultrasonic cleaner uses high-frequency sound waves in a liquid to blast dirt, flux, grease and residue off small parts, jewellery, boards and tools without scrubbing. Heated tanks with timers give fast, thorough cleaning for detailed components.

Key Features

- Tank sizes from 0.6 to 13 litres
- Ultrasonic frequency around 40 kHz
- Heating to 60-80 degrees C
- Timers from a few minutes
- Basket and lid accessories

Typical Uses in the Workshop

- Clean solder flux from PCBs and rework
- Degrease small machine and watch parts
- Clean jigs, nozzles and jewellery
- Restore sticky switches and contacts

Safe Operation

1. Fill the tank with the correct solution
2. Place parts in the basket or directly in the bath
3. Set the temperature and timer
4. Run the cycle and check the results
5. Rinse parts in clean water and dry

SAFETY NOTES

- Do not put hands in the tank while running
- Use the correct cleaning solution for parts
- Do not clean bearings or coated parts unless specified
- Add parts carefully to avoid splashes
- Switch off and unplug before emptying

Maintenance & Consumables

- Change the cleaning solution regularly
- Clean the tank after each use
- Check the transducer and wiring
- Descale if using hard water
- Store the tank empty and dry

Specification & Buying Notes

A 2-3 litre heated tank with a timer covers school needs. Choose stainless steel tanks with a drain tap and basket. Buy the recommended cleaning solutions for the parts cleaned.