

TOVATECH

6 Best Uses for Ultrasonic Cleaners

1. Ultrasonic Cleaning Dental and Surgical Instruments

The CDC, WHO and professional medical and dental associations stress the importance of thoroughly cleaning, then disinfecting or sterilizing reusable medical, dental and surgical instruments. Ultrasonic energy is far superior to manually scrubbing these instruments because the microscopic bubbles are able to penetrate small cracks and crevices to blast away contaminants unreachable by manual processes. After the ultrasonic cleaning cycle instruments are ready for disinfecting or sterilizing.

2. Cleaning Laboratory Glassware

Cleaning laboratory glassware such as flasks, graduated cylinders, burettes and pipettes requires careful handling to avoid breakage. Lab glassware of complex shape is also difficult to clean. Substituting an ultrasonic cleaner for manual washing and lab glassware washing machines not only can reduce breakage and associated replacement costs but also delivers a thorough cleaning job thanks to the power of cavitation action.

6. Cleaning Engine Parts

Auto service departments, and lawn, garden and recreation equipment service providers can end their reliance on solvents, sprays and wash tanks to remove grease, grime, gunk, varnish and other engine part contaminants simply by investing in an ultrasonic cleaner.



3. Cleaning Printed Circuit Boards

Contaminants such as excess solder and rosins must be removed from newly manufactured printed circuit boards. Ultrasonic cleaners effectively accomplish this when proven procedures are employed.

5. How Cavitation Speeds Sample Prep in the Lab

Cavitation is used in sample preparation to transform analytes into measurable form without chemical degradation that can be caused by excessive heat or mechanically induced damage. In this case cavitation is not used to remove contaminants but to extract APIs (active pharmaceutical ingredients) from carriers in order to carry out content uniformity and potency assay tests. The process also is used to dissolve, disperse, emulsify, homogenize and mix samples.

4. Cleaning Plastic Injection Molds

An ultrasonic cleaner is the preferred alternative to manually scrubbing injection molds using brushes and a solvent-based parts washer.

Your best source for clear, concise and unbiased recommendations is the ultrasonic cleaning professionals at Tovatech. Visit our website at Tovatech.com for contact and additional information.