## TOVATECH

## Maintaining Firearms with an Ultrasonic Cleaner

Investments in firearms, be it by collectors of antique guns, law enforcement agencies, operators of gun shooting ranges, hunters or shooting enthusiasts of any stripe, can be substantial. Nothing is better than ultrasonic cleaning when it comes to removing lead shavings, residues from powders, old lubricants, in fact any contaminant that causes wear or otherwise impacts the performance or degrades the value of the firearm.



Disassemble the firearms according to manufacturers' instructions. Remove loose contaminants with a brush to help preserve the effectiveness of the cleaning solution. Place the components (minus grips and stocks) into the basket. Avoid crowding the parts. While you are doing this turn on the unit and set the thermostat to 150°F (65°C) if so equipped. Based on the capacity of the ultrasonic cleaner tank prepare the cleaning solution according to the manufacturer's dilution recommendations. Most cleaners have a "fill line" but remember to allow for solution displacement when parts are immersed in it.

**5 Steps** for Cleaning Your Firearm Activate the ultrasound and degas function (if so equipped) to mix and degas the solution. Once the solution is mixed and degassed you can turn the unit off until you are ready to clean parts.

At the end of the cycle remove the basket and examine the parts. (Do not reach into the hot solution). If satisfied shake, wipe and allow parts to dry, and then lubricate them.

When the ultrasound starts lower the basket into the solution and set the timer for 10 minutes.

## **Ultrasonic Firearm Lubrication**

An option to hand-lubricating cleaned weapons is ultrasonic lubrication using GunLube L5. Place the cleaned parts in the (degassed) lubricating solution, set the timer to activate the ultrasound for 10 minutes. Cavitation energy passes through the pan walls and thoroughly lubricates the gun parts while removing all traces of water and leaving a dry lubricating film. Parts are now ready for reassembly.

## **Questions?**

Tovatech's scientists are ready to assist you in selecting with calibration or Analytical Balance questions.

Visit www.tovatech.com for contact information.