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# **Industrial Strength Heated Ultrasonic Table Top Cleaning System**



# SharperTek<sup>®</sup> Industrial Strength Heated Ultrasonic Cleaning Machine



## Who We Are

SharperTek<sup>®</sup> is a premier manufacturer of ultrasonic cleaners, ultrasonic plastic welders, cell disrupters, and jewelry steam cleaners. Our offices are located in Pontiac Michigan, which houses our engineering and manufacturing staff. Our customers range from small businesses to government branches including Police Departments, U.S. Army, U.S. Coast Guard, and U.S. Marine Corps. Other large corporate customers include; Smith & Wesson, Audi, General Motors, General Dynamics, Ford, Honda, Lockheed, Stihl Power Equipment, Kawasaki, and many more.

Our new 2018 models of ultrasonic cleaning systems will quickly and effortlessly remove dirt, oxidation, carbon, oils, and much more! Ultrasonic waves penetrate deep into those hard-to-reach places for thorough and effortless cleaning. Feel free to contact our friendly and knowledgeable sales staff with any questions or concerns for your application.



## Machine Description: SH960-10G w/ External Generator

SharperTek® Extra Powerful Industrial Strength Heated Ultrasonic Cleaning Machine

Tank	Description	Ultrasonic Tanks Specifications (Inches and Gal)				Power (W)		Frequency
		Length	Width	Depth	Capacity	Ultrasonic Watts	Heating	
1	<b>Ultrasonic Cleaning Tank</b>	19.5	11	10	10G	960	600	40 KHz

### Ultrasonic Cleaning Tank:

- Tank Size: 19.5"x11"x10" (L x W x H)
- Overall Tank Dimensions: Approx. 24"x 13"x 18" (L x W x H)
- Working Dimensions: Approx. 17"x9"x8" (L x W x H)
- Tank Material: 12 GG SSTL 304.
- Power Supply: AC100~ 120V, 50/60Hz 10 Amps.
- Free Parts Basket Dimensions: Approx.18"x10"x9" (L x W x H)
- Tank Welds: Welded on outside of tank. Internal welds are pacified per ASTM 967. Weld Type: Mig and Tig welded and dye penetrant checked to insure water tightness. Water tightness then verified over a period of 2 weeks.
- Ultrasonic wave is Powered by an External Generator. (Generator provides 0-100% manual power adjustment, and a continuous timer!)
- Ultrasonic Frequency: 40 KHz.
- Ultrasonic Frequency is integrated with Sweep Technology! (Provides uniform and more robust cleaning performance!)
- Ultrasonic Power: Extra Powerful 960 watts peak power using best in class SharperTek® Industrial standard Ultrasonic Transducers.
- Built In Degas Function. (To expel the trapped gasses in the liquid for the best results possible.)
- The most powerful choice for counter top applications!
- All inlets and outlet fittings are Tig welded on inside and outside of tank.
- Drain Pipe on Side for Easy Draining and Cleaning
- Heater System: Designed to maintain cleaning fluid temperature. Heating will reach 75 Degrees C.
- Weight: 65 Lbs. Shipping Weight: 90 Lbs. plus any additional chemicals (Shipped Freight on a Pallet. Additional fee for residential customers.)
- Warranty: 2 Years.


## Best Cleaning Solution

The functionality of the ultrasonic cavitation is incredibly interesting. The ultrasonic power produces a wave of compression where the molecules in the solution are compressed closely together, and also a wave of expansion where the molecules are ripped apart rapidly creating microscopic bubbles in a vacuum effect. When the pressure builds, the liquid around the bubbles enters at an alarming rate, diminishing the bubbles. As the bubbles diminish, a powerful rush of liquid is created that moves at incredible speed, creating heat. The process happens so quickly, and the cavitation in the confined area of the tank builds so thoroughly that it provides the absolute best way of cleaning in the 21<sup>st</sup> Century.

**\*Ultrasonic Frequency:** To choose the best Ultrasonic Frequency for your Application, see the below chart for different parts cleaning applications and find the best frequency for the job!

## Your SharperTek<sup>®</sup> Ultrasonic Power Source:

Ultrasonic Frequency:	Application:
<b>27KHz</b>	Used for heavy, simple items like molds with no or minimal holes or threads.
<b>40KHz</b>	Used for Parts Cleaning, will reach into threads and between intricate areas and valves for the most optimal clean.
<b>80KHz, 135KHz</b>	Used for Extremely Small holes such as needle width or mixing chemistry or liquids.

Ultrasonic Power Source	SharpSones <sup>™</sup> Standard Transducer
Langevin Type Transducer	
Temperature Rating:	160 Degree F max.
Tuning:	Auto Frequency; optimizes frequency to maintain high resonance.
Ultrasonic Frequency:	40KHz with Sweep Technology!
Sweep:	Yes (Electronic)
Warranty:	2 Year
Voltage:	120 / 240 V SP
Origin:	USA or Foreign Sourced

## **Ultrasonic Sweep Cleaning Technology:**

Traditional ultrasonic systems use a single frequency to create ultrasonic cavitation. While this is an effective way to clean, single frequency systems create tank dead spots because of naturally occurring standing waves. Sweep cleaning technology solves this problem. Sweep cleaning technology delivers a more thorough, effective ultrasonic cleaning system.

### **What Is Ultrasonic Sweep Cleaning?**

Ultrasonic sweep cleaning “sweeps” multiple ultrasonic frequencies through a single ultrasonic tank. This sweeping controls the creation of standing waves, allowing no single frequency to resonate in the tank, eliminating the root cause of standing waves, and tank dead spots.

### **What Ultrasonic Sweep Cleaning Means To You:**

When you use SharperTek® ultrasonic sweep cleaning technology, every volume inside your tank is creating ultrasonic cavitation, meaning that every item you put in the tank is cleaned across every part of its surface. No dead spots.

### **The Ultrasonic Sweep Cleaning Advantage!**

The advantage of a SharperTek® ultrasonic sweep cleaning system is thorough and efficient cleaning. Because every space in the ultrasonic tank is actively creating ultrasonic cavitation, you efficiently optimize immersion time required to clean all surfaces.

