

## SAFETY PRECAUTIONS

### Keep it away from children!

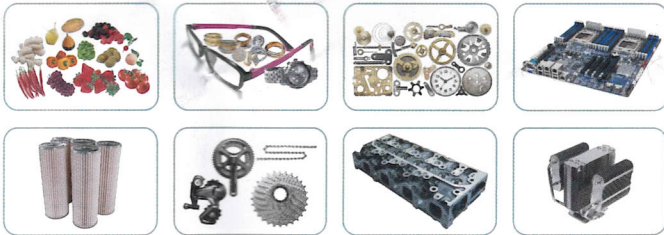
- 1 This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
  - 1 Children shall not play with the appliance.
  - 1 Cleaning and user maintenance shall not be made by children without supervision.
  - 1 Keep the appliance and its cord out of the reach of children under 8 year old.
  - 1 Never leave the appliance unattended when connected to a power supply.
  - 1 If the supply cord is damaged, the appliance should be scrapped or have the cord replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 4 Please read the following items very carefully as failure to comply with them may invalidate your guarantee.

- 1 It's not recommended to run the cleaner continuously for more than one hour at a time because it has a bad influence on the device's service life.
- 1 DO NOT operate the unit without fluid in the tank. Please always ensure that the fluid is not higher than the max mark and not lower than the minimum depth of 7cm.
- 1 DO NOT drop any item into the tank because it may damage the transducer. Always place items gently into the tank and use the basket whenever possible.
- 1 The more items you place in the cleaning bath, the less cleaning efficient you can get. It's recommended to leave enough spaces among items rather than overlap them.
- 1 Do keep the lid closed during use. This will prevent splashing and reduce evaporation of fluid.
- 1 Never immerse the machine or power cord in water or other liquid.
- 1 DO NOT touch the power plug with wet hands, especially when inserting or removing the plug.
- 1 DO NOT touch the unit if the machine has fallen into water during operation. Please remove the power plug from the socket firstly.
- 1 DO NOT disassemble the machine if you are not professional.
- 1 UNPLUG the power source while filling or emptying the tank.
- 1 DO NOT spray water or liquid over the device and the control panel.
- 1 DO NOT operate the cleaner without proper grounding.
- 1 DO NOT place the device on a soft surface where the vents can be blocked.
- 1 DO NOT use any volatile solutions whose gas is flammable or explosive.
- 1 Please always turn the heater off after using as leaving it on can make the fluid evaporate and damage the internal components.
- 1 Please be careful when adding or removing items from the cleaning tank as the splashed fluid is likely to be hot and damage the internal components. Any splashed fluid must be dried immediately.
- 1 In case of emergency or failure to follow the aforementioned items, disconnect the mains supply by removing the plug from the mains socket.

## APPLICATIONS

Ultrasonic cleaners can clean sundry stuffs which can be immersed in water, such as:

- Jewelleries especially gold, silver & platinum
- Watchstraps
- Coins and other collectibles
- PCB Boards etc
- Engine/Model parts
- Toothbrushes & Dentures
- Electrical components
- Make-up cases
- Diesel injection pumps
- Printer heads and toner cartridges
- Motorcycle radiators
- Vehicle differentials
- Milking parlor equipment
- Golf clubs&grips&golf balls
- Horse bits&stirrups &horse brasses
- Tattoo needles
- Surgical equipment
- Motorcycle engine crank cases
- Engine cylinder heads
- Turbochargers
- Bicycle derailleurs
- Knives, bayonets and other militaria
- Gun and gun components

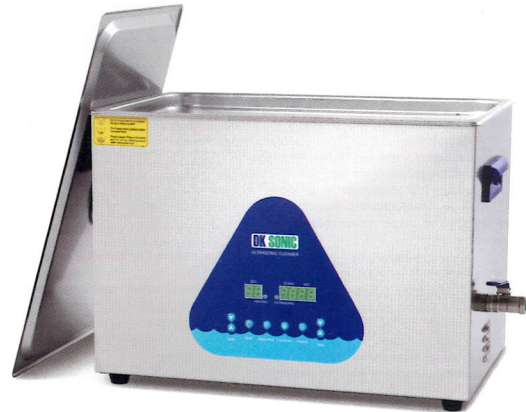


Ultrasonic cleaning is not recommended to be used to clean the following gemstones:  
Opal, Pearl, Emerald, Tanzanite, Malachite, Turquoise, Lapis and Coral.



## FEATURES

- 0~80 C temperature range
- 1~99 minutes working time
- Fullwave(40KHz) for intensive rinse
- Semiwave(28KHz) for gross rinse
- Dewaxing and degreasing function
- Degas mode for a better cleaning effect
- Die casting SUS304 stainless steel tank
- Auto Stand-by, Sleep, and wake up by one key-press
- Digital controller of high-precision and a long service-life



Control Panel



## PREPARATION

1. Carefully unpack the cleaner, remove all packing materials and check whether any parts have become loose or damaged during transit.

**Contents:** a: Main machine      b: Sound proof lid      c: Power lead  
d: Outlet filter      e: Mesh basket (Optional)      f: Manual

- Place the cleaner on a flat, clean surface and ensure that the cooling fan will get adequate ventilation, and that all controls are set to off, and the drain tap is closed.
- Ensure that the power lead is securely plugged into the cleaner, and that no part of the lead is likely to contact with moisture.
- Carefully fill at least 1/2 of the tank with a solvent solution. Based on cleaning requirements, we recommend to use a small amount of cleaning solution because this will help increase the cleaning performance. Now the cleaner is ready for use.

## Attention

While the machine is working normally, the synergy of the ultrasonic wave and tank gives a well-proportioned sound with no shudder on the surface of the water but sprays generated by the tiny bubbles. If there are discontinuous surges, please add or reduce a little of washing solution in the tank to stop the surges, which is good for get a better cleaning effect.

Empty the tank and clean both the outside and inside of the cleaner with a clean and dry cloth for next use.

**NOTE:** Do not pour water out until it's cooling-off because hot water will hurt you and damage the machine itself.

## OPERATION

Fill the stainless steel tank with cleaning solution; plug the power lead into grounded outlet; After power-on, the temperature LEDs displays the actual environmental temperature, the time LEDs displays 3 minutes (default ultrasonic time). The functions of buttons are as follows:

TEMP	The preset temperature can be increased or decreased 1°C by pressing  or  at a time (one press, one degree Celsius); the preset temperature can be increased or decreased by 10°C via keeping pressing  or  continuously. <b>NOTE:</b> Usually, the best cleaning temperature is between 40°C and 60°C.
TIME	The preset cleaning time can be increased or decreased 1min by pressing  or  shortly at a time (one press, one min); it can also be increased or decreased by 10 mins via keeping pressing  or  continuously. The cleaning stops when the timer counts down to 00:00. If the unit needs to be stopped before the timer runs out, press the cleaning mode button once. <b>NOTE:</b> For the consideration of a long service life, it is not recommended to run the cleaner continuously for more than one hour.
HEAT	The heating function can be started or stopped by pressing the "HEAT"  button once. <b>NOTE:</b> The preset temperature must be higher than water temperature, or the heating function can not be started. The heating function will be stopped once the water temperature reaches the preset temperature, and it will be restarted once the water temperature becomes about 2 or 3 degree Celsius lower than the preset temperature.
SEMIWAVE	The "SEMIWAVE" cleaning mode(28KHz) can be started or stopped by pressing the SEMIWAVE button  once.
FULLWAVE	The "FULLWAVE" cleaning mode(40KHz) can be started or stopped by pressing the FULLWAVE button  once.
DEGAS	An intermittent cleaning mode with 6s "ON" and 2s "OFF" can remove bubbles in cleaning solution so as to improve cleaning effect. It can be started or stopped by pressing the DEGAS  button once.

## DIFFERENT CLEANING WAYS

- General Cleaning** — A common ultrasonic cleaning way with only water and under 50°C.
- Enhanced Cleaning** — An ultrasonic cleaning way with a few drops of standard cleaning solutions added, such as liquid soap, detergent, or any other non-acidic cleaning agents.
- Extensive Cleaning** — A special ultrasonic cleaning way with specific cleaning solution added for removing tarnish, carbon & rust from non-plated metals.

## WARNING

Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of tank or machine body. To solve this problem, please dilute the solution to a mild PH value with a special tank made of a specific-graded stainless steel, like SUS316, before pouring it into the tank of the ultrasonic cleaner.

The cleaning solution's effectiveness will deteriorate over time and use. It is important to regularly change the fluid and wash the cleaning tank carefully so as to preserve the effectiveness and prolong the tank's service life. Besides, the tank must be wiped down and dried before being re-connected to the electrical supply. Do not use corrosive or abrasive cleaning tools to clean the tank.

**NOTE:** If the machine starts to spark, smoke, smells burnt electrics or displays any other fault, the operator must immediately stop the machine, and isolate it from the electrical supply and contact the supplier. It is dangerous to use it after that.

## HOW TO GET A BETTER CLEANING EFFECT

- Immerse the cleaned stuffs well into the water. (below the "MAX" mark)
- Add a small amount of cleaning solution.
- Make sure that there is enough space around each stuff in the tank. The more stuffs you place in the tank, the less efficiency you can get. It is not advised to overlap stuffs because the ultrasonic cleaning system can not make a good cleaning effect on layered stuffs.
- Use a suitable basket. Do not put stuffs directly into the bottom of the tank because that is harmful for the inner tank. Especially a metal basket only absorbs about 8% ultrasonic energy.
- Choose a suitable temperature: Generally, the higher the temperature is, the better cleaning effect the ultrasonic cleaner can make. However, when temperature exceed 70~80°C, cleaning effect will be affected. The best temperature we suggest is 40~60°C.

## SPECIFICATIONS

Model No.	Tank Size(mm)	Overall Size(mm)	Capacity	Frequency	Ultrasonic Power	Heating Power	Time(min)	Temp(°C)	Drainage
DK-210S	200x140x85	220x170x200	2.0L	40KHz & 28KHz	60W	100W	1~99	0~80	None
DK-300S	240x140x100	270x170x240	3.0L	40KHz & 28KHz	120W	100W	1~99	0~80	None
DK-600S	300x155x150	330x180x330	6.0L	40KHz & 28KHz	180W	300W	1~99	0~80	Yes
DK-1000S	300x240x150	300x270x330	10L	40KHz & 28KHz	240W	300W	1~99	0~80	Yes
DK-1500S	330x300x150	360x330x330	15L	40KHz & 28KHz	360W	400W	1~99	0~80	Yes
DK-2200S	500x300x150	500x330x330	22L	40KHz & 28KHz	480W	500W	1~99	0~80	Yes
DK-3000S	500x300x200	550x330x380	30L	40KHz & 28KHz	600W	500W	1~99	0~80	Yes
DK-3300S	500x290x220	590x330x385	33L	40KHz & 28KHz	720W	800W	1~99	0~80	Yes

## Contact Us

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