















ULTRASONIC PRINCIPLE



which create an intense scrubbing action on the surface of the item being cleaned. The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly and consistently, Ultrasonic deaning is extremely effective at removing dirt and gime which would normally require tedious manual cleaning by hand. It has been used to clean a wide variety of instruments and mechanical parts such as cardruretors, returning them to lamost Tike new" condition without damage to delicate parts.



Ultrasonic cleaning is based on the cavitation effect caused by high frequency ultrasonic wave vibration signal in the fluid. Microscopic bubbles are formed, and then implode violently causing the cavitation which create an intense scrubbing action on the

Thanks for purchasing this ultrasonic cleaner. Please read these operating instructions before use and keep the user manual for future reference. Failure to follow the instructions may lead to serious personal and damage to the product.

FEATURES

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

PREPARATION

- 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
 2. Place the cleaner on a flat, clean surface and ensure that the cooling line will get adequate ventilation, and that all controls are set to off, and the drain tap is closed.

 3. Ensure that the power lead is securely plugged into the cleaner, and that no part of the lead is likely to contact with moisture.

 4. Carefully fill all 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.

A) While the machine is working normally, the syntony 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.

B) Please don't make the machine work for a continuous long time (not more than 30 minutes) as possible as you can because a long time working will raise the temperature of the case, accelerate the burn-in process of inner electronic components and parts.

This device can not be used by individuals with limited physical knowledge, or the mental disabled, or those lacking experiences or knowledge, such as children, unless they are supervised by an individual who can take charge of their safety or have received training in operating the device

Please read the following items very carefully as failure to comply with them may invalidate your guarantee

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 | Do NOT run the cleaner continuously for more than one hour at a time because it can demage the internal components.
 | Do NOT operate the unit without fluid in the tank, Always ensure that the fluid is no higher than the max mark and no lower than the minimum depth of 7cm.
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 | Do NOT operate the tank because it may damage the transduce, Always place lims generally into the tank use the basket whenever possible,
 | The more items you place in the deaning bath, the less deaning efficient you can get. Leaving enough spaces among items rather than overlapping them is recommended.
 | Do Note the discosed during use. This will prevent splashes and reduce evaporation of the fluid.
 | Do NOT touch the power plug with wet hands, sepecially when inserting or removing the plug.
 | Do NOT touch the unit if the machine has failen into water during operation. Remove the power plug from the socket firstly.
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APPLICATIONS

This list is almost endless. Provided the product is non porous and can normally be immersed in water, they can be thoroughly cleaned. Here are some examples: 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 Engine cylinder heads
 Turbochargers
 Bicycle derailleurs
 Knives, bayonets and other militaria
 Gun and gun components

- Jewelry especially gold, silver & platinum
 Watchstraps
 Coins and other collectibles
 PCB Boards etc
 Engine/Model parts
 Toothbrushes & Dentures







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Surgical equipment
 Motorcycle engine crank cases







FRONT VIEW



- A. Soundproof lid B. Die casting SUS304 tank C. Filling Line D. Plastic Carrying Handles E. SUS304 Drain Valve F. Air Inlet/Louver G. Anti-slide Feet

BACK VIEW



A. Air Outlet

- B. Power Switch C. Power Socket
- D. QC Pass Sticker E. Product Model Sticker

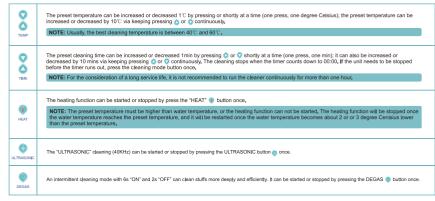
ULTRASONIC CLEANER

CONTROL PANEL

DK SONIC

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:



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.

ADVANTAGES

Ultrasonic is widely used throughout sundry industries to remove difficult contaminants from spare parts during or after manufacturing process which require a cleaning process before the next process. In general, if a stuff can be cleaned with liquid, it can be cleaned much faster and more thoroughly with an ultrasonic cleaner. Compared with traditional solvent/scrubbing, our ultrasonic cleaners have following advantages:

Being more effective at removing contaminants;
Being much quicker to get a good cleaning effect;
Saving the labor time of employees (and subsequent labor cost);
Being much to heat the cleaning solutions to a suitable temperature so as to enhance the cleaning efficiency;
Having a digital controller of high-precision and a long service-life;
Being much performance;
Being environment-friendly because of its recyclability.

DIFFERENT CLEANING WAYS

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

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 specil 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 beingre-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 youplace 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 you tuthis 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 °C ~60 °C.

SPECIFICATIONS

Model No.	Tank Size(mm)	Overall Size(mm)	Capacity	Frequency(KHz)	Ultrasonic Power(W)	Heating Power(W)	Time(min)	Temperature(℃)	Drainage
DK-200D	150x140x100	190x170x230	2.0L	40	60	100	1~99	0~80	None
DK-210D	200x140x85	220x170x200	2.0L	40	60	100	1~99	0~80	None
DK-300D	240x140x100	270x170x240	3.0L	40	120	100	1~99	0~80	None
DK-600D	300x155x150	330x180x330	6.0L	40	180	300	1~99	0~80	Yes
DK-1000D	300x240x150	300x270x330	10L	40	240	300	1~99	0~80	Yes
DK-1500D	330x300x150	360x330x330	15L	40	360	400	1~99	0~80	Yes
DK-2200D	500x300x150	500x330x330	22L	40	480	500	1~99	0~80	Yes
DK-3000D	500x300x200	550x330x380	30L	40	600	500	1~99	0~80	Yes

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