

Intensive cleaning with ultrasound in the automobile and motorcycle workshop

Cleaning in the high-performance, easy-to-operate SONOREX SUPER ultrasonic devices saves time, money, and is gentle on the material.

Wherever a cleaning liquid can act, even in cavities, ultrasound cleans intensively - gently - optimally.

Cleaning examples:



FSI injection valve cleaning in the SONOREX SUPER RK 102 H



Diesel injection nozzle dirty

Diesel injection nozzle cleaned with ultrasound



Cleaning of carburetors in the ultrasonic bath



Carburetor dirty



Carburetor cleaned with ultrasound

The ultrasound removes oil and dirt residue from fuel injectors, carburetors and engine parts in only a few minutes. Soiled parts no longer have to be replaced, they are cleaned instead using ultrasound. Copper rust and deposits in the carburetor, tools, water pumps, ball bearings, throttle valves, automatic transmission components, window actuators and central locks are cleaned quickly and gently with ultrasound.

The ultrasound not only cleans automobile and engine parts.

Tools - including ratchets - immediately become clean and smooth. Thanks to environmentally-friendly, biodegradable cleaning concentrates that have been especially developed for ultrasound cleaning, best cleaning results are achieved while simultaneously protecting the material.



Intensive cleaning in high power ultrasonic cleaners

For customer service repair centres – to clean injection nozzles and small parts



SONOREX SUPER RK 102 H - especially high-performing
Hard chromium-plated stainless steel oscillating tank
240 x 140 x 100 mm (L x W x D), 3.0 litres content.
2 PZT large area transducers.
Ultrasonic peak power* 480 W. HF power 120 W_{eff}.
Frequency 35 kHz. Timer 1–15 min and continuous operation.
Heating 30–80 °C, 140 W, thermostatically controlled.
Drip-proof stainless steel housing. G ¼ ball valve outlet. With handles.
3 years long-term warranty
Code No. 303

For customer service repair centres – to clean injection nozzles, carburettors and smaller components



SONOREX SUPER RK 510 H
Stainless steel oscillating tank, 300 x 240 x 150 mm (L x W x D),
9.7 litres content.
4 PZT broad beam transducers.
Ultrasonic peak power* 640 W. HF power 160 W_{eff}.
Frequency 35 kHz. Timer 1–15 min and continuous operation.
Heating 30–80 °C, 400 W, thermostatically controlled.
Drip-proof stainless steel housing. G ½ ball valve outlet. With handles.
Code No. 321



SONOREX SUPER RK 514 BH
Stainless steel oscillating tank, 325 x 300 x 200 mm (L x W x D),
18.7 litres content.
4 PZT large area transducers.
Ultrasonic peak power* 860 W. HF power 215 W_{eff}.
Frequency 35 kHz. Timer 1–15 min and continuous operation.
Heating 30–80 °C, 600 W, thermostatically controlled.
Drip-proof stainless steel housing. G ½ ball valve outlet. With handles.
Code No. 263

For motorcycle workshops – to clean carburettors and longer components



SONOREX SUPER RK 156 BH
Stainless steel oscillating tank, 500 x 140 x 150 mm (L x W x D),
9.0 litres content.
4 PZT large area transducers.
Ultrasonic peak power* 860 W. HF power 215 W_{eff}.
Frequency 35 kHz. Timer 1–15 min and continuous operation.
Heating 30–80 °C, 600 W, thermostatically controlled.
Drip-proof stainless steel housing. G ¼ ball valve outlet.
Code No. 646

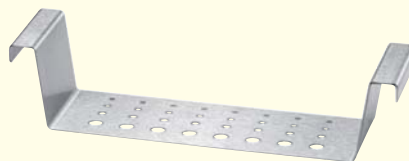
*In Code to improve the effect, the ultrasound is modulated, whereby a 4-fold HF power value is yielded as ultrasonic peak power, in connection with Sweep Tec®.

Accessories for SONOREX SUPER ultrasonic cleaning units

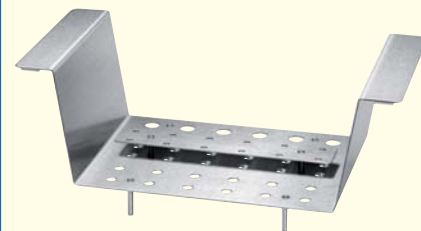
Nozzle receptacle ED 0
made of stainless steel.
Fits in inset beaker EB 05.



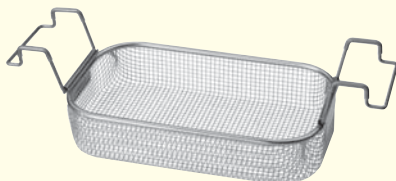
Nozzle receptacle ED 9
made of stainless steel.
To hang into the oscillating tank.
Holds a max. of
32 injection nozzles:
8 holes with Ø 9.5 mm each
8 holes with Ø 5.5 mm each
8 holes with Ø 4.5 mm each
8 holes with Ø 3.5 mm each



Injection nozzle receptacle ED 14
made of stainless steel.
To hang into the oscillating tank.
Holds a max. of
36 injection nozzles:
12 holes with Ø 14.5 mm each
12 holes with Ø 10.0 mm each
12 holes with Ø 6.5 mm each

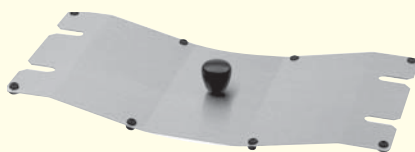


Insert basket
made of stainless steel.
Interior dimensions (L x W x H):
200 x 110 x 40 mm
Mesh size 3.5 x 3.5 mm
Optimum ultrasound transmission.



K 3 C

Lid
made of stainless steel.

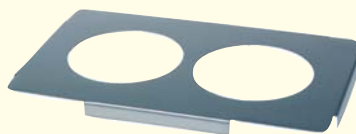


D 100

Inset beaker EB 05
made of stainless steel.
Use only with the DE positioning lid.



Positioning lid
made of stainless steel.
To hang inset beakers.



DE 100

The proper accessories facilitate the ultrasound application and preserve, at the same time, the object to be cleaned and the oscillating tank. Parts to be cleaned or vessels may not be placed on the tank bottom!

Accessories	Devices	RK 102 H	Code No.	RK 510 H	Code No.	RK 514 BH	Code No.	RK 156 BH	Code No.
Injection nozzle receptacles	ED 0 ED 9	163 183	ED 0 ED 9	163 183	ED 14	634	ED 0	163	
Insert basket	K 3 C	3025	K 10	359	K 14 B	205	K 6 BL	629	
Positioning lid	DE 100	3017	DE 510	3038	DE 514	3039	DE 156	3040	
Inset beaker	EB 05	340	EB 05	340	EB 05	340	EB 05	340	
Lid	D 100	3003	D 510	3008	D 514	3010	D 156	3004	

TICKOPUR cleaning concentrates

- especially developed for use in ultrasonic baths
- gentle to material and cavitation enhancing
- environmentally friendly and biodegradable

TICKOPUR TR 13

Special cleaner, concentrate

For injection nozzles, diesel nozzles, valves.
Removes gumming, coking residues, grease, oil, wax, coatings and pigments, drilling, grinding, polishing and lapping residues from steel, stainless steel, glass, ceramics, plastics, rubber, metal, etc. (not for aluminium alloys, tin, zinc). For stubborn residues.
Active agents: alkalis, tensides. Alkaline, pH 11.9 at 1 %.

2-litres-bottle Code No. 872

5-litres-jerrycan Code No. 848



Application with ultrasound
10 %
1–10 minutes

TICKOPUR R 33

Universal cleaner, concentrate

For carburettors, tools, machine parts.
Removes drilling, grinding, polishing and lapping residues, oil- and grease-based residues, soot, etc. With corrosion protection.
Gentle to material. Caution with tin and zinc.
Active agents: tensides. Mildly alkaline, pH 9.9 at 1 %.

2-litres-bottle Code No. 883

5-litres-jerrycan Code No. 831



Application with ultrasound
1–5 %
1–10 minutes

TICKOPUR TR 3

Special cleaner, concentrate

For carburettors, tools, machine parts.
Removes limescale and fuel residues, flash rust, grease, oil, wax, pigments, drilling, grinding, polishing and lapping residues, etc. from metal, glass, ceramics, plastics, rubber. With corrosion protection.
Free of phosphates, gentle to material. Active agents: citric acid, tensides. Mildly acid, pH 3.0 at 1 %.

2-litres-bottle Code No. 923

5-litres-jerrycan Code No. 935



Application with ultrasound
5 %
1–10 minutes



BANDELIN *electronic*

The family-owned mid-sized company is specialized in manufacturing ultrasonic equipment, accessories and cleaning agents. It maintains a Quality Management System complying with the requirements of EN ISO 9001:2008 und EN ISO 13485:2003 + AC:2007

32320g e/2011-12 All items are available immediately from present fabrication series. CE-marked. Subject to technical alterations without notice.

BANDELIN

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60 years
of experience in ultrasound

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