

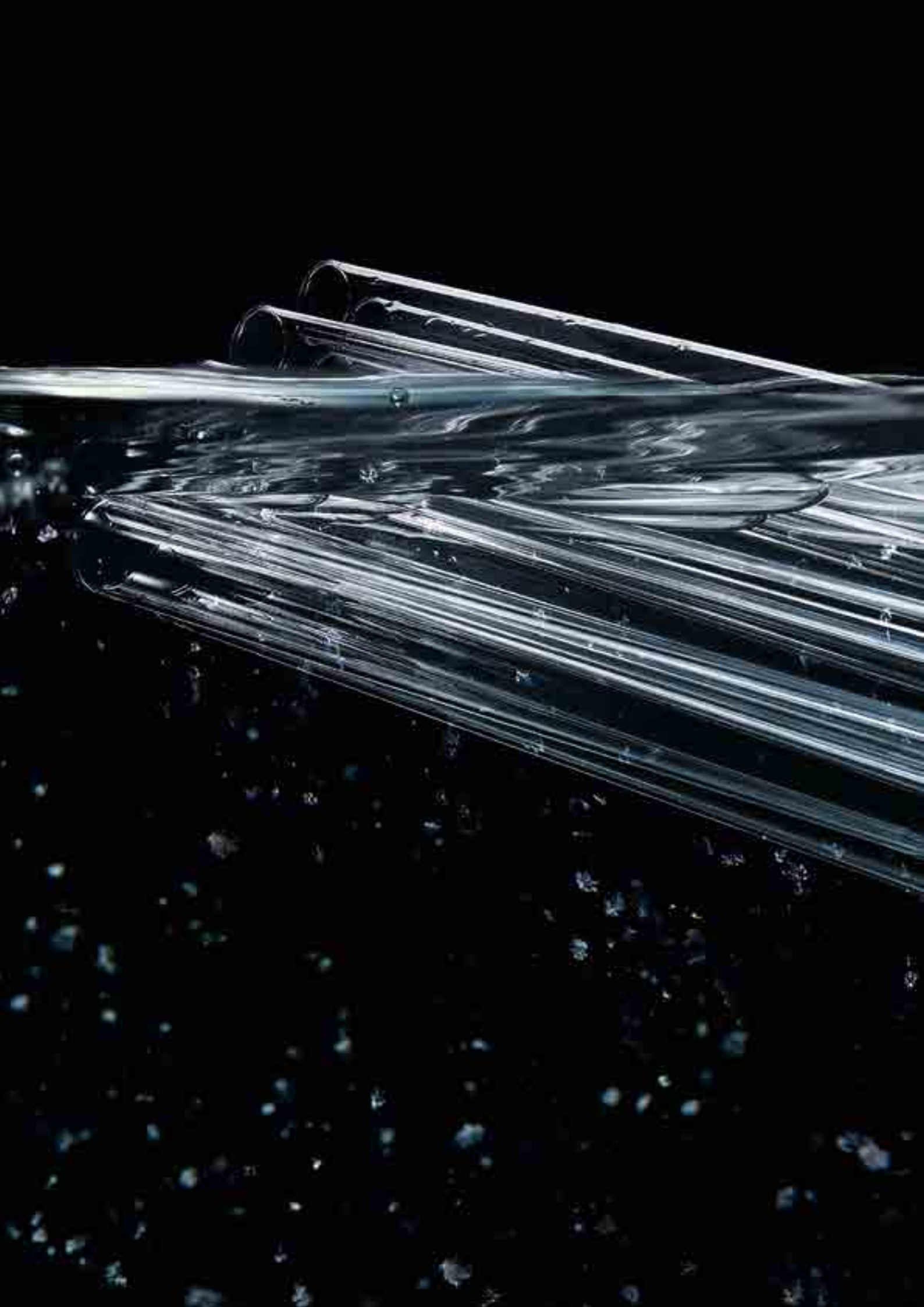


**WEBER
ULTRASONICS**



**SOUND SOLUTIONS
FROM 25 KHZ TO 1 MHZ
CLEANING WITH ULTRASOUND**

WEBER-ULTRASONICS.COM



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»Improving industrial component and surface cleaning through innovative ultrasonic solutions and developing new fields of application – these are our passions. We display full commitment and dedication to researching and working in this field.«

Dieter Weber



Dieter Weber, Chairman of the Supervisory Board
Markus Weber, Chief Innovation Officer

ZERO PARTICLE CONTAMINATION

PIONEERING CLEANING SOLUTIONS FOR INTEGRATION INTO INDUSTRY 4.0

Modern component cleaning and surface finishing operations are already capable of achieving extremely high degrees of cleanliness. However, current trends such as electric mobility, lightweight construction, additive manufacturing, connectivity and miniaturisation are presenting new challenges for component cleaning applications. Alongside particulate soiling, film-based contamination is becoming an increasingly important factor here. At the same time, requirements in terms of process stability and profitability are becoming ever stricter. In addition to this, industrial cleaning processes increasingly have to be integrated into highly automated production environments in order to guarantee maximum productivity. Without intelligent ultrasonic solutions, these requirements and integration into Industry 4.0 simply cannot be achieved.

We are the development partner with extensive ultrasonic expertise for plant manufacturers and industry. As a technological leader from Germany, we set standards when it comes to ultrasonic cleaning, welding and cutting. Thanks to our intensive research we are expanding the range of applications for ultrasound and thereby preparing the ground for innovative manufacturing processes and new technological processes.

Weber Ultrasonics offers technology and service from a single source: certified quality, developed and manufactured in Germany using state-of-the-art technologies. Our portfolio encompasses ultrasonic components such as generators, transducers, comprehensive accessories, as well as turnkey systems. They can be seamlessly integrated in both new and existing production systems. Concise customer training courses and unique customer service with ultra-fast spare part delivery round off the portfolio.

WE DRIVE INNOVATION

OPTIMISED FOR YOUR SUCCESS

PERFECT TECHNOLOGY FROM 25 KHZ TO 1 MHZ

The cleanliness of surfaces and components is a key quality factor in manufacturing processes and for product quality. With their homogeneous sound field, digital ultrasonic systems from Weber Ultrasonics guarantee consistently high cleaning efficiency that is reproducible at any time and across all frequencies: from coarse cleaning at 25 kHz, all the way up to superfine cleaning at 1 MHz. Our technologies are used in a very wide range of sectors. Indeed, customers from the automotive industry, electroplating sector, semiconductor industry, watch and jewellery manufacturing sector, optical industry, medical engineering sector, as well as mechanical and plant engineering and many other industrial areas benefit from our ultrasonic specialists' profound understanding of specific requirements in the respective sectors.

INDIVIDUAL AND FLEXIBLE

Weber Ultrasonics develops practical solutions, tailored perfectly to customer requirements, that can be integrated into any process control environment via standard interfaces. The single-frequency, dual-frequency and multi-frequency solutions offer users a high degree of flexibility. This allows cleaning units to be more compact, space-saving and cost-efficient.

FROM COARSE TO FINE

Regardless of whether components need to be cleaned for maintenance purposes or to achieve defined reproducible cleanliness requirements on workpieces – the range of potential applications covered by ultrasound systems is vast. With frequencies ranging from 25 to 132 kHz, we offer the optimum solution – for any application and any wet chemical medium.

CLEANING FROM 250 KHZ ALL THE WAY UP TO MEGASOUND

Sensitive components, such as monocrystalline wafers from the fields of photovoltaics, optics and lenses or sensitive structures in the field of medical engineering are so fragile that they could be damaged by excessive movements in the medium and high levels of cavitation energy. Frequencies from 250 to 1000 kHz facilitate particularly gentle yet also highly effective cleaning, resulting in high degrees of cleanliness. This allows the requisite cleanliness to be achieved efficiently for further processing of the parts. With our experience, expertise and innovative, high-performance components, we are your number one partner and solution provider for all superfine cleaning applications.

MICRO & NANO – MINIATURISATION TRENDS

Whether ever smaller and faster chips, sensors or actuators for safety, comfort, convenience, connectivity, mobile telephones, pacemakers or measuring technology – microsystem technology and nanotechnology can today be found in many sectors. These tiny components can be reliably and securely cleaned using ultrasound.

Plant manufacturers can integrate the digital components from Weber Ultrasonics flexibly into their cleaning solutions using standard interfaces. Simple, fast and without any costly or time-consuming installation work. They therefore offer customers tailor-made solutions with unique performance features that can also handle the most demanding tasks without any difficulty.



THE SONOPOWER 3S GENERATION 4.0

**STRONGER, SMARTER,
CLEANER**

AN INTELLIGENT POWERHOUSE

THE SONOPOWER 3S SERIES WILL REVOLUTIONISE YOUR CLEANING PROCESSES



CLEANING AT UP TO 3000 W

The fourth generation of SonoPower generators are genuine powerhouses. With up to 3000 W, they set new standards as single frequency, dual-frequency or multi-frequency generators. Thanks to the patent-pending innovations of SonoBoost Sweep and SonoPower Modulation, they achieve cavitation quality and cleaning performance previously considered impossible. Once connected to the mains and the transducer, the system is ready for use right away. The generators in the SonoPower 3S range automatically determine and set the optimum configuration themselves. The SonoScan determines the optimum operating frequency independently and sets up the system accordingly. This frequency is then continually monitored and automatically adjusted during the cleaning process.

For a wide range of applications, the SonoPower 3S series combines all power classes with a frequency spectrum from 25 to 132 kHz. An optional second transducer connection allows two processes to be performed cost-effectively in two tanks with different media using just one generator. Cleaning and rinsing can then, for example, be performed in parallel.

READY FOR INDUSTRY 4.0

The generators in the 3S series can be integrated into a higher-level control system using fieldbus systems such as PROFINET or PROFIBUS. The USB service interface can be used to upload firmware updates, transfer configurations from one device to another and output errors. Easy-to-understand plain text messages on the large colour display provide even more convenience and safety for manual operation.

In summary:

Performance that lowers costs. Perfect cleaning results, maximum process stability and productivity, greater flexibility and seamless integration into your process control - the SonoPower 3S helps you optimise your processes and save costs.



TECHNOLOGIES, FUNCTIONS, BENEFITS

- Single-frequency, dual-frequency and multi-frequency
- SonoScan
- SonoBoost Sweep
- SonoPower Modulation
- Plug & play
- Mains voltage management
- Colour display
- Error memory
- Degas mode
- Fan control
- Temperature management
- Power output control from 10 % to 100 % in 1 % increments
- Can be fitted in 19" casing
- 25-pole I/O interface
- USB service interface
- Optional: second transducer connection
- Optional: PROFINET / PROFIBUS / ETHERCAT interface

MAINS CONNECTION

Mains

- Open cable ends or country-specific plugs, in Germany earthing contact plugs (Schuko)
- Equipment IEC 60320 socket C19

WEIGHT AND DIMENSIONS

- Weight: approx. 6.5 kg
- H x W x D: 134 x 325 x 265 mm

FREQUENCIES & POWER OUTPUTS

The right model for coarse, fine or superfine cleaning

SONOPOWER 3S SINGLE

Suitable for submersible and plate transducers

	1000 W	1200 W	1500 W	1800 W	2000 W	2400 W	2600 W	3000 W
25 kHz	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	230 V	230 V	230 V
40 kHz	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	230 V	230 V	230 V
50 kHz	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	230 V	230 V	230 V
80 kHz	115/230 V	230 V	230 V	230 V	230 V			
132 kHz	115/230 V	230 V	230 V	230 V	230 V			

The perfect combination for multi-tiered processes

SONOPOWER 3S DUAL

Suitable for submersible and plate transducers

	1000 W	1200 W	1500 W	1800 W	2000 W	2400 W	2600 W	3000 W
25 / 50 kHz	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	230 V	230 V	230 V
40 / 80 kHz	115/230 V	230 V	230 V	230 V	230 V			
40 / 132 kHz	115/230 V	230 V	230 V	230 V	230 V			
80 / 132 kHz	115/230 V	230 V	230 V	230 V	230 V			

Full flexibility from coarse to superfine cleaning

SONOPOWER 3S MULTI

Suitable for submersible and plate transducers

	1000 W	1200 W	1500 W	1800 W	2000 W
40 / 80 / 132 kHz	115/230 V	230 V	230 V	230 V	230 V



ADDED FLEXIBILITY FOR YOU.
THE 2ND TRANSDUCER CONNECTION

SONIC DIGITAL MG

CLEANING GENERATOR

**CLEAN
SINGLE FQ**
MADE IN GERMANY



SINGLE BASIC

The Sonic Digital MG Single Basic is ideal for applications requiring multiple generators. The generator modules offer the proven technology from the Sonic Digital range and deliver impressive power in the tightest of spaces.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- Available with one, two or three practical frequencies
- Sonic Digital technology with a modular design
- Operation on the equipment and display
- Sweep (with plate and submersible transducers from 58 kHz)
- Digital frequency generation and control via 32-bit microcontroller
- Power output control from 10 % to 100 % in 1 % increments with submersible and plate transducers
- Frequency monitoring
- Fan control
- Temperature management
- 15-pole I/O interface (TTE28 housing for up to 2 modules), 2 x 15-pole I/O interface (TTE84 housing for up to 6 modules)
- Optional for Basic models: setting and control via the Sonic Digital hand-held control unit or the Sonic Digital front control panel
- Optional: PROFINET/PROFIBUS interface

SINGLE PREMIUM

In the Premium version of the equipment, all settings can be made directly on the generator and checked on the display.

MAINS CONNECTION

Mains

- TTE28 housing for up to 2 modules, 230 V: open cable ends or country-specific plugs, in Germany earthing contact plugs (Schuko)
- TTE84 housing for up to 6 modules, 400 V: IEC 60309 CeKon

Equipment

- Permanent wiring

WEIGHT AND DIMENSIONS

Sonic Digital MG module

- Weight: 3 kg
- H x W x D: 174 x 71.5 x 308 mm

Module in TTE28 housing

- Weight: 6 kg
- H x W x D: 235 x 205 x 400 mm

Module in TTE84 housing

- Weight: 7.5 kg
- H x W x D: 235 x 530 x 400 mm



DUAL PREMIUM

With practical frequency pairings, the Sonic Digital MG Dual Premium cleans effectively and easily in two levels.

MULTI PREMIUM

More frequencies, more options: the Sonic Digital MG Multi Premium offers a wide range of power outputs and frequencies in a tight space. A good choice, also in combination with other devices.

FREQUENCIES & POWER OUTPUTS

SONIC DIGITAL MG BASIC AND PREMIUM

Suitable for rod, plate and submersible transducers

	250 W	300 W	400 W	500 W	600 W	750 W	800 W	1000 W	1200 W	1500 W	2000 W
25 kHz		■	■	■	■○	■	■	■○	■○	■○	■○
30 kHz		■	■	■	■○	■	■	■○	■○	■○	■
40 kHz		■○		■○	■	■○	■	■○	■○	■	■
58 kHz				■				■			
80 kHz		■	■	■	■	■	■	■			
120 kHz		■	■	■	■	■	■	■			
132 kHz		■	■	■	■	■	■	■			
170 kHz	■			■							
192 kHz	■			■							
250 kHz	■			■							

■ Plate & submersible transducers ○ Rod transducers

SONIC DIGITAL MG DUAL PREMIUM

Suitable for plate and submersible transducers

	500 W	600 W	750 W	1000 W
25 / 50 kHz	■	■	■	■
40 / 80 kHz	■	■	■	■
40 / 120 kHz	■	■	■	■
80 / 120 kHz	■	■	■	■

■ Plate & submersible transducers

SONIC DIGITAL MG MULTI PREMIUM

Suitable for plate and submersible transducers

	500 W	600 W	750 W	1000 W
40 / 80 / 120 kHz	■	■	■	■

■ Plate & submersible transducers

SONIC DIGITAL LC

CLEANING GENERATOR



BASIC

The Sonic Digital LC Basic offers proven Sonic Digital technology such as digital frequency generation and stepless power output control. The compact standalone unit with up to 2000 W power output.

PREMIUM

The Premium version of the Sonic Digital LC with display combines the innovative technology of the Sonic Digital range with a high degree of operator convenience for standalone applications.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- Sonic Digital technology as a standalone/tabletop unit
- Sweep (with plate and submersible transducers from 58 kHz)
- Digital frequency generation and control via 32-bit microcontroller
- Power output control from 10 % to 100 % in 1 % increments with submersible and plate transducers (5 % to 100 % with rod transducer)
- Frequency monitoring

- Fan control
- Temperature management
- Dry run protection in connection with Sonopush rod transducers 15-pole I/O interface
- Optional: setting and control via the Sonic Digital hand-held control unit
- Optional: RS-485 interface

MAINS CONNECTION

Mains

- Open cable ends or country-specific plugs, in Germany earthing contact plugs (Schuko)

Equipment

- Permanent wiring

WEIGHT AND DIMENSIONS

- Weight: 5.5 kg
- H x W x D: 130 x 270 x 250 mm

FREQUENCIES & POWER OUTPUTS

SONIC DIGITAL LC BASIC AND PREMIUM									
Suitable for rod, plate and submersible transducers									
	300 W	500 W	600 W	750 W	800 W	1000 W	1200 W	1500 W	2000 W
25 kHz	■	■	■○	■○	■	■○	■○	■○	■○
30 kHz		■	■○	■○	■	■○	■○	■○	■
40 kHz	■○	■○	■○	■○	■	■○	■○	■○	■
58 kHz		■	■	■	■	■			
80 kHz		■	■	■	■	■			
120 kHz		■	■	■	■	■			
132 kHz		■	■	■	■	■			

Values for 230 V input voltage. Values for 115 V input voltage available on request.

■ Plate & submersible transducers ○ Rod transducers

SONIC DIGITAL ULC

CLEANING GENERATOR



BASIC

The Sonic Digital ULC is the first choice for processes that require power outputs of up to 400 W without missing out on Weber Ultrasonics' innovative technology.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- Sonic Digital technology as a standalone/tabletop unit
- Sweep (with plate and submersible transducers from 58 kHz)
- Digital frequency generation and control via 32-bit microcontroller
- Power output control from 10 % to 100 % in 1 % increments with submersible and plate transducers (5 % to 100 % with rod transducers)
- Frequency monitoring
- Fan control

MAINS CONNECTION

Mains

- Open cable ends or country-specific plugs, in Germany earthing contact plugs (Schuko)

Equipment

- Permanent wiring

WEIGHT AND DIMENSIONS

- Weight: 2.8 kg
- H x W x D: 75 x 250 x 180 mm

PREMIUM

Second to none operator convenience. On the Sonic Digital ULC Premium, all settings can be made directly on the generator and viewed on the integrated display.

- Temperature management
- Dry run protection in connection with Sonopush rod transducers
- 15-pole I/O interface
- Optional: setting and control via the Sonic Digital hand-held control unit
- Optional: RS-485 interface
- Operation on the equipment and display (Premium version)

FREQUENCIES & POWER OUTPUTS

SONIC DIGITAL ULC BASIC AND PREMIUM				
Suitable for rod, plate and submersible transducers				
	100 W	200 W	300 W	400 W
25 kHz	■	■	■	■
30 kHz	■	■	■	■
40 kHz	■	■	■ ○	■
58 kHz	■	■	■	■
80 kHz	■	■	■	■
120 kHz	■	■	■	■
132 kHz	■	■	■	■

Values for 230 V input voltage. Values for 115 V input voltage available on request.

■ Plate & submersible transducers ○ Rod transducers



The next dimension:
Superfine cleaning with megasound –
gentle and effective cleaning of highly
sensitive parts.

SONOPOWER 3S MEGASONIC BOOST

CLEANING GENERATOR



TECHNOLOGIES, FUNCTIONS, BENEFITS

- Megasound 500 kHz and 1 MHz
- SonoScan
- SonoBoost Sweep
- SonoPower Modulation
- Mains voltage management
- Colour display
- Error memory
- Degas mode
- Fan control
- Temperature management
- Power output control from 10 % to 100 % in 1 % increments
- Can be fitted in 19" casing
- 25-pole I/O interface
- USB service interface
- Optional: PROFINET / PROFIBUS / ETHERCAT interface

MAINS CONNECTION

- Mains
- Open cable ends or country-specific plugs, in Germany earthing contact plugs (Schuko)
 - Equipment IEC 60320 socket C14

WEIGHT AND DIMENSIONS

- Weight: approx. 6.5 kg
- H x W x D: 134 x 325 x 265 mm

MEGASOUND

The patented functions of the 4th Generation SonoPower 3S generator for superfine cleaning at up to 1 MHz. Megasound is for example suitable for cleaning highly sensitive or extremely fragile components in semiconductor manufacturing operations or for products in the optical industry.

FREQUENCIES & POWER OUTPUTS

SONOPOWER 3S MEGASONIC BOOST		
Suitable for high-frequency plate transducers		
	250 W	500 W
500 kHz	230 V	230 V
1 MHz	230 V	230 V

SONIC DIGITAL HS3

CLEANING GENERATOR



The Sonic Digital HS3 delivers up to 2000 W. For integration into industrial installations, it impresses with flexible, space-saving installation, high efficiency and compatibility with other system components such as transducers and system controllers. PROFINET and PROFIBUS facilitate integration into control processes and remote maintenance.



TECHNOLOGIES, FUNCTIONS, BENEFITS

- Sonic Digital technology that can be integrated as a DIN rail-compatible system
- Sweep (with plate and submersible transducers from 58 kHz)
- Digital frequency generation and control via 32-bit microcontroller
- Power output control from 10 % to 100 % in 1 % increments with submersible and plate transducers (5 % to 100 % with rod transducers)
- Frequency monitoring
- Fan control

- Temperature management
- Dry run protection in connection with Sonopush rod transducers
- 15-pole I/O interface
- Optional: setting and control via the Sonic Digital hand-held control unit or the Sonic Digital front control panel
- Optional: RS-485 interface

MAINS CONNECTION

- Mains
- Open cable ends or country-specific plugs, in Germany earthing contact plugs (Schuko)

WEIGHT AND DIMENSIONS

- Weight: 3.7 kg
- H x W x D: 169 x 385 x 89 mm

- Equipment
- Phoenix

FREQUENCIES & POWER OUTPUTS

SONIC DIGITAL HS3										
Suitable for rod, plate and submersible transducers										
	300 W	400 W	500 W	600 W	750 W	800 W	1000 W	1200 W	1500 W	2000 W
25 kHz	■	■	■	■○	■	■	■○	■○	■○	■○
30 kHz	■	■	■	■○	■	■	■○	■○	■○	■
40 kHz	■○	■	■○	■	■○	■	■○	■○	■	■
58 kHz	■	■	■	■	■	■	■	■	■	■
80 kHz	■	■	■	■	■	■	■			
120 kHz	■	■	■	■	■	■	■			
132 kHz	■	■	■	■	■	■	■			

Values for 230 V input voltage. Values for 115 V input voltage available on request.

■ Plate & submersible transducers ○ Rod transducers

SONIC DIGITAL FRONT CONTROL PANEL

FOR CONTROL CABINETS AND ENCLOSURES



The practical front control panel for Basic generators can, for example, be fitted in the door of a control cabinet. All settings can be made here and the current operating parameters viewed.

FRONT CONTROL PANEL



SONIC DIGITAL HAND-HELD CONTROL UNIT



FOR BASIC GENERATORS

The practical hand-held control unit for all generators without a display allows all settings to be made and the current operating parameters to be viewed. Suitable for all Basic generators in the Sonic Digital range.

PROFIXBOX




INTERFACE CONVERTER

For quick and easy integration of generators with RS-485 interface, an interface converter can establish the necessary compatibility with PROFINET, PROFIBUS and ETHERCAT systems.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- The interface converter is preconfigured for the respective generator and system.
- Just one PROFIXBOX is required for six Sonic Digital MG generators in the TTE84 housing.
- DIN rail installation
- With LED status display
- Supplied with device description file (GSD)

A vertical, tapered metal rod with a conical tip, surrounded by a cloud of fine, white particles against a black background. The rod is centered and extends from the top to the bottom of the frame. The particles are scattered around the rod, creating a sense of motion and activity.

The original:
The Sonopush rod transducers.
360° effect. Robust, durable and
suitable for the toughest applications.

SONOPUSH®

ROD TRANSDUCER



1 SONOPUSH® MONO

Sonopush Mono rod transducers are space-saving units that operate efficiently, even when working with positive and negative pressure. The 360° emission allows a particularly high sonic yield.

2 SONOPUSH® MONO HDT

For extreme conditions. The Sonopush Mono HDT operates continuously, even at 95°C.

3 SONOPUSH®

An impressive solution. The Sonopush rod transducer has two mounting points and is suitable for use with many common systems. Maximum lengths can be achieved in this way.

4 SONOPUSH® DUOTRANSDUCER HDT

For special tasks. The heavy duty Sonopush Duotransducer HDT offers you two sound generators and also enables longer system lengths thanks to its two mounting points.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- Sonopush Mono and Sonopush Mono HDT: one sound generator, one mounting point
- Sonopush: one sound generator, two mounting points
- Sonopush Duotransducer: two sound generators, two mounting points to facilitate special lengths
- HDT models: patented sound generator architecture
- Made of solid stainless steel, titanium-aluminium alloy or pure titanium
- 360° emission
- >95 % efficiency
- 1 MPa vacuum and overpressure resistant
- Dry run protection in connection with generators from Weber Ultrasonics
- Active length of up to 1287 mm possible
- Design alternative to third party products when retrofitting

FREQUENCIES & POWER OUTPUTS

SONOPUSH ROD TRANSDUCERS

Suitable for all generators in the Sonic Digital range

	300 W	500 W	600 W	750 W	1000 W	1200 W	1500 W	2000 W
25 kHz			x		x	x	x	x
30 kHz			x		x	x	x	
40 kHz	x	x		x	x	x		

SONOPUSH®

ROD TRANSDUCER

∅ Transducer body



A Transducer body length

B Total length

SONOPUSH® MONO

25 KHZ

∅ transducer body: 50 mm ∅ sound generator: 69 mm

Power output	Length: transducer body	Length: total
600 W	198 mm	~ 319 mm
600 W	297 mm	~ 418 mm
1000 W	297 mm	~ 418 mm
1000 W	396 mm	~ 517 mm
1000 W	495 mm	~ 616 mm
1200 W	495 mm	~ 616 mm
1500 W	495 mm	~ 616 mm
1500 W	594 mm	~ 715 mm
1500 W	693 mm	~ 814 mm
2000 W	891 mm	~ 1012 mm
2000 W	1.089 mm	~ 1210 mm
2000 W	1287 mm	~ 1408 mm

30 KHZ

∅ transducer body: 38 mm ∅ sound generator: 55 mm

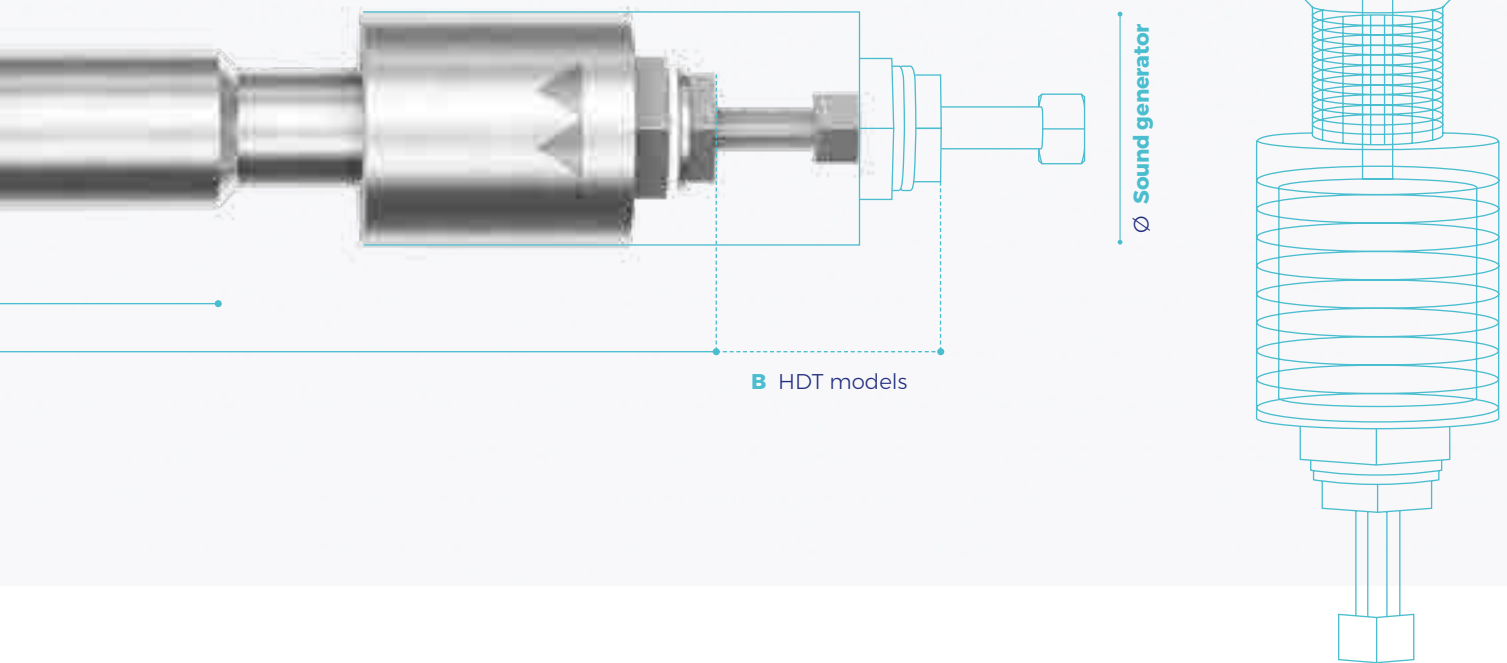
Power output	Length: transducer body	Length: total
600 W	270 mm	~ 363 mm
600 W	354 mm	~ 447 mm
1000 W	437 mm	~ 530 mm
1000 W	520 mm	~ 613 mm
1000 W	604 mm	~ 697 mm
1200 W	604 mm	~ 697 mm
1500 W	687 mm	~ 780 mm

40 KHZ

∅ transducer body: 30 mm ∅ sound generator: 55 mm

Power output	Length: transducer body	Length: total
300 W	201 mm	~ 284 mm
500 W	264 mm	~ 347 mm
750 W	391 mm	~ 474 mm
1000 W	517 mm	~ 600 mm
1200 W	770 mm	~ 853 mm

Please note: the length of the rod transducers can vary by several millimetres due to different material batches.



SONOPUSH® HDT MODELS

25 KHZ		
Ø transducer body: 50 mm Ø sound generator: 69 mm		
Power output	Length A	Length B
600 W	198 mm	~ 411 mm
600 W	297 mm	~ 510 mm
1000 W	297 mm	~ 510 mm
1000 W	396 mm	~ 609 mm
1000 W	495 mm	~ 708 mm
1200 W	495 mm	~ 708 mm
1500 W	495 mm	~ 708 mm
1500 W	594 mm	~ 807 mm
1500 W	693 mm	~ 906 mm
2000 W	891 mm	~ 1104 mm
2000 W	1089 mm	~ 1302 mm
2000 W	1287 mm	~ 1500 mm

30 KHZ		
Ø transducer body: 38 mm Ø sound generator: 55 mm		
Power output	Length A: transducer body	Length B: total
600 W	270 mm	~ 449 mm
600 W	354 mm	~ 533 mm
1000 W	437 mm	~ 616 mm
1000 W	520 mm	~ 699 mm
1000 W	604 mm	~ 783 mm
1200 W	604 mm	~ 783 mm
1500 W	687 mm	~ 866 mm

40 KHZ		
Ø transducer body: 30 mm Ø sound generator: 55 mm		
Power output	Length: transducer body	Length: total
300 W	201 mm	~ 339 mm
500 W	264 mm	~ 402 mm
750 W	391 mm	~ 529 mm
1000 W	517 mm	~ 655 mm
1200 W	770 mm	~ 908 mm

With transducer body lengths in excess of 580 mm, an additional assembly kit is required for the rod transducer.

Further lengths can be produced in $\lambda / 2$ steps.

SONOSUB

SUBMERSIBLE TRANSDUCERS

The compact Sonosub submersible transducer is available in single-frequency, dual-frequency and multi-frequency versions and delivers optimum cleaning results. The various models available are produced individually based on your requirements. Its laser-welded housing makes the Sonosub extremely robust and durable. It is the first submersible transducer that can also be used in vacuum cleaning processes. This is made possible by its special, vacuum-resistant design.



TECHNOLOGIES, FUNCTIONS, BENEFITS

- All frequencies, all power outputs for cleaning with ultrasound
- Round **1**, rectangular **2**, triangular **3** and individual designs possible
- Easy to integrate thanks to floor or wall mounting
- Laser-welded housing
- Special versions, such as the triangular submersible transducer, offer vacuum resistance up to 300 mbar

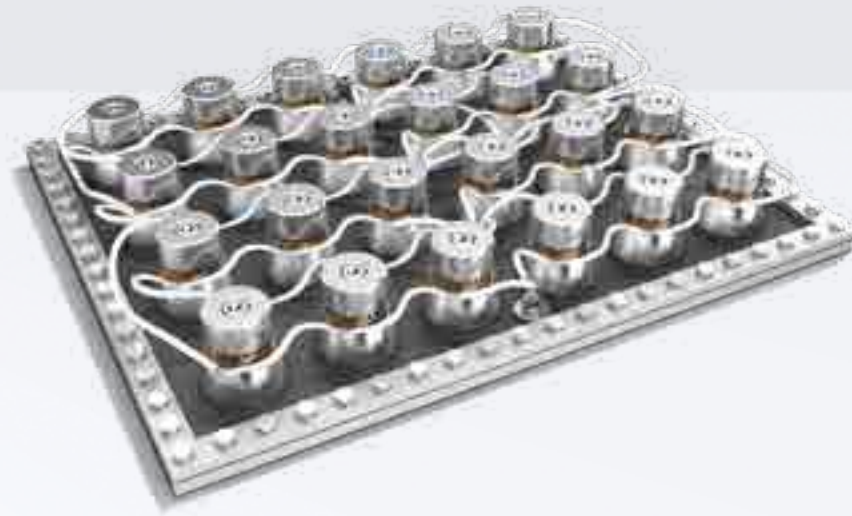
WEIGHT AND DIMENSIONS

We produce all submersible transducers individually based on your wishes and requirements.



SONOPLATE

PLATE TRANSDUCERS



SINGLE, DUAL, MULTI-FREQUENCY

We produce the Sonoplate plate transducer specifically to your requirements. The unit guarantees optimum use of space and is suitable for frequencies up to 250 kHz and power outputs up to 3000 W.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- All frequencies, all power outputs for cleaning with ultrasound (Single)
- Two frequencies (Dual)
- Three frequencies (Multi)
- Individual fitting out of customers' own cleaning tanks and units (various designs) possible
- Multi-frequency-capable transducer elements allow smaller designs (Dual and Multi)
- Transducer design principle = chamber allows optimum use of space

WEIGHT AND DIMENSIONS

All shapes and dimensions are possible if requested by the customer.



FREQUENCIES & POWER OUTPUTS

SONOPLATE / SONOSUB

SONOPLATE / SONOSUB SINGLE

SonoPower3S Single and all generators in the Sonic Digital range

	100 W	200 W	250 W	300 W	400 W	500 W	600 W	750 W	800 W	1000 W	1200 W	1500 W	2000 W	2400 W	2600 W	3000 W
25 kHz	x	x		x	x	x	x	x	x	x	x	x	x			x
30 kHz	x	x		x	x	x	x	x	x	x	x	x	x			x
40 kHz	x	x		x	x	x	x	x	x	x	x	x	x			x
50 kHz										x	x	x	x	x	x	x
58 kHz	x	x		x	x	x	x	x	x	x	x	x	x	x	x	
80 kHz	x	x		x	x	x	x	x	x	x	x	x	x			x
120 kHz	x	x		x	x	x	x	x	x	x	x	x	x			x
132 kHz	x	x		x	x	x	x	x	x	x	x	x	x			x
170 kHz			x			x				x						
192 kHz			x			x				x						
250 kHz			x			x				x						

SONOPLATE / SONOSUB DUAL

SonoPower 3S Dual and Sonic Digital MG Dual

	500 W	600 W	750 W	1000 W	1200 W	1500 W	1800 W	2000 W	2400 W	2600 W	3000 W
25 / 50 kHz	x	x	x	x	x	x	x	x	x	x	x
40 / 80 kHz	x	x	x	x	x	x	x	x			
40 / 120 kHz	x	x	x	x							
80 / 120 kHz	x	x	x	x							
40 / 132 kHz				x	x	x	x	x			
80 / 132 kHz				x	x	x	x	x			

SONOPLATE / SONOSUB MULTI

SonoPower 3S Multi and Sonic Digital MG Multi

	500 W	600 W	750 W	1000 W	1200 W	1500 W	1800 W	2000 W
40 / 80 / 120 kHz	x	x	x	x				
40 / 80 / 132 kHz				x	x	x	x	x

SONOPLATE HIGH FREQUENCY

PLATE TRANSDUCER FOR MEGASOUND



Our SonoPlate High Frequency has been designed for use with the SonoPower 3S Megasonic Boost. The megasound-capable plate transducer generates a sound distribution that is ideal for superfine cleaning.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- Megasound-capable
- Transducer design principle = chamber allows optimum use of space
- Available as plate or submersible transducers
- Standard transducers correspond to the standardized dimensions for wafer cleaning.
- Individual sizes and designs available on request



DIMENSIONS OF STANDARD TRANSDUCERS

SONOPLATE HIGH FREQUENCY

All dimensions stated in mm [inches]

Power	Dimensions (LxW)	Active field size (LxW)
250 W	185 x 180 [7,3 x 7,1]	122 x 104 [4,8 x 4,1]
250 W	260 x 140 [10,2 x 5,5]	179 x 72 [6,9 x 2,8]
500 W	185 x 244 [7,3 x 9,6]	122 x 168 [4,8 x 6,6]
500 W	374 x 140 [14,7 x 5,5]	293 x 72 [11,5 x 2,8]
1.000 W	299 x 244 [11,8 x 9,6]	241 x 168 [9,5 x 6,6]
1.000 W	374 x 209 [14,7 x 8,3]	293 x 141 [11,5 x 5,5]
1.500 W	416,5 x 244 [16,4 x 9,6]	360 x 168 [14 x 6,6]
1.500 W	374 x 281 [14,7 x 11,1]	293 x 210 [11,5 x 8]

FREQUENCIES & POWER OUTPUTS

SONOPLATE HIGH FREQUENCY

SonoPower 3S Megasonic Boost

	250 W	500 W	1000 W	1500 W
500 kHz	x	x	x	x
1 MHz	x	x	x	x

FLOW-THROUGH CELL



Whether for dyeing applications in the textile industry or processing of ballast water in the shipping industry - the flow-through cell is the chamber-based solution for processes with flowing media and can be produced to individual requirements.

TECHNOLOGIES, FUNCTIONS, BENEFITS

- Processing all kinds of liquids
- Dyeing and bleaching textiles
- Degassing or disinfecting liquids to kill off bacteria, germs and parasites



Advanced application:
Weber Entec specialises in ultrasonic disintegration for sewage treatment and biogas plants. The systems engineering employed by our subsidiary accelerates decomposition of organic materials and is today used in biogas plants and sewage treatment plants throughout the world.

GLOBAL PLAYER, LOCAL SUPPORT

YOUR PARTNER FOR GREATER ADDED VALUE
THROUGH EFFICIENT CLEANING PROCESSES



WEBER ULTRASONICS AMERICA LLC ①
Clarkston, Michigan,
United States of America

Weber Ultrasonics is a global player that is deeply rooted in German quality traditions. The company has a flawless track record and has realised over 2000 projects for more than 2000 customers all over the world. In-depth expertise, an intensive development phase, exhaustive testing in the Group's own application centre, quality-controlled manufacturing in Germany, regional sales offices close to our customers and the very best on-site service guarantee solutions that maximise added value for our customers.



2 WEBER ULTRASONICS AG
Headquarters, Karlsbad, Germany

3 WEBER ENTEC GMBH & CO. KG
Waldbronn, Germany

4 WEBER ULTRASONICS SOLUTIONS (SHANGHAI) CO., LTD.
Shanghai, China

5 WEBER ULTRASONICS ASIA SDN. BHD.
Kuala Lumpur, Malaysia

With us, knowledge and action go hand in hand.

We know the potential of ultrasonic technology, as we are constantly pushing its boundaries through dedicated research. We know the success criteria in your sector thanks to our many years of experience and successful industry solutions. We convert knowledge into success – your success.

Improve your competitiveness with new, more productive cleaning processes. Discover a new dimension of cleaning and use our ultrasonic cleaning solutions to develop groundbreaking production methods – for more innovative products and more profitable production. Benefit from the in-depth advice of our experts and look forward to a genuinely successful partnership.

WE KNOW, WE DO

Certified quality

How do you benefit from this?
With top-level technology and service.





Thorough, efficient, environmentally friendly. Cleaning with ultrasound.



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