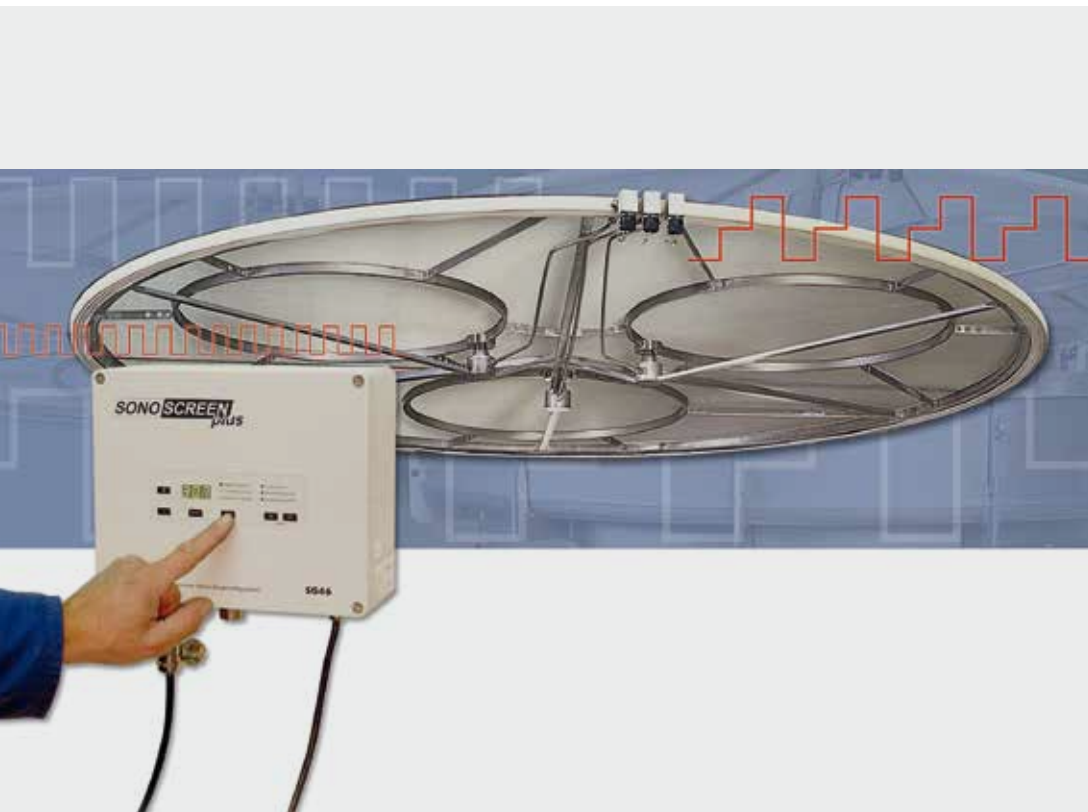


Ultrafine screening with innovative ultrasonic system

New functional principle with optimum mesh cloth activation



SONOSCREEN plus SG46: New screening system with high flexibility.

The new ultrasonic system offers an extended selection of operating modes. There are 16 preconfigured settings (referred to as jobs) stored in the generator which are based on six basic operating modes. The jobs can be called up at the push of a button and are optimised for the application by changing the vibration amplitude. This innovative feature allows the ultrasonic cleaning to be adapted to the required screening task in an optimum way.

Further progress concerns regular measurement of the best resonance frequencies of your screening system during ongoing operation. This means the ultrasonic system is always automatically adapted to possible changing conditions in the screening machine. When screening is tuned to an optimum resonance frequency, the mesh cloth activation is improved and this leads to an optimised screening process.

The new ultrasonic system can also be used in potentially explosive atmospheres. The SG46 generator as well as the HF cable used outside the machine are all certified for zone 21. Two versions of the screening deck with converters are available. For dust, zone 20 is permitted within the machine and zone 21 outside it. For gas, the screen deck is certified for zone 1 inside and outside.



Backward compatibility with existing Sonoscreen systems is guaranteed by means of an adaptation box which is certified even for ATEX zone 22.

A display provides information about the job selected as well as possible warnings and faults. These can be evaluated directly by external process control systems using the digital and analogue inputs and outputs, and active control is also possible.

The SG 46 is also available as a twin generator in addition to the single version, in order to enable two independent resonators to be controlled.

Basic mode	Chronological sequence f_R : Resonance frequency	Alterable Parameter	functional comparison to previous generators		
			SG42	SG45	SG46
Hopping linear		<ul style="list-style-type: none"> Pulse frequency Pulse duration 			✓
Hopping random					✓
Pulse		<ul style="list-style-type: none"> Intensity 	✓	✓	✓
Standard resonance		<ul style="list-style-type: none"> Intensity 	✓		✓
Amplitude modulation (standard resonance)		<ul style="list-style-type: none"> Intensity 		✓	✓
Frequency modulation		<ul style="list-style-type: none"> Intensity 			✓

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