

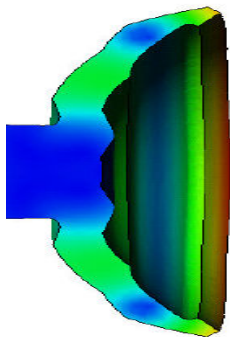


Ultrasonic equipment: acoustic wind

 **SinapTec**[®]
ULTRASONIC TECHNOLOGY

- Find out more

Ultrasonic technology produces an acoustic wind in front of the probe without displacing any gas: the focus of the acoustic waves produced by the probe creates a pressure field a few centimetres in front of the probe. This pressure field is strong enough to displace particles in suspension in the gas or on a surface, with no external air or gas supply.



Despite its limited range, the production of high intensity ultrasound in gas means that several innovative applications can be developed.

- Specific support

As the use of an ultrasonic solution is relatively complex and specific to each requirement, our service includes support that is tailored to the specific expectations of our clients and to the maturity of the project:

- Drafting the specifications in partnership with our customers to specify the requirements.
- Custom design and adaptation of equipment described below depending on the application.
- Training in the use of our equipment.
- Monitoring of the equipment's user and configuration protocols.

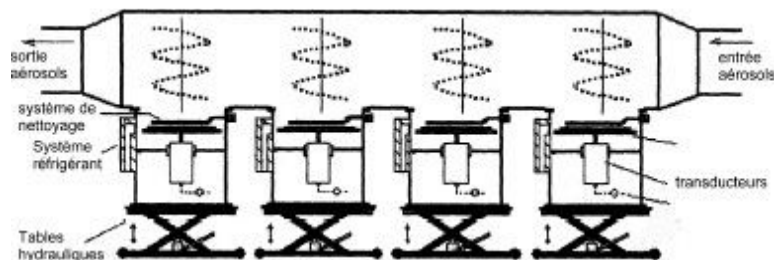
- Examples of applications
- Elimination of foam/bubbles

The elimination of foam or bubbles on the surface of a liquid during filling has been successfully implemented on production lines, but also on greater volumes (tanks, etc.).



- Particle agglomeration

Ultrasonic agglomeration allows for the growth of fine particles (diameter of less than 2 microns) placed in suspension. Larger particles are therefore easier to filter using conventional processes.



- Inert blowing

Inert blowing is for unclogging filters, dust extraction, dry decontamination, etc. This process is particularly useful in confined areas such as clean rooms, food processing and nuclear environments.

- Ultrasonic equipment

The vibrating ultrasonic tool is a cup that can be integrated in a machine, an enclosure or on portable equipment for manual use.

Depending on the application, frequency, profile and diameter of the cup, it can be adapted to optimise the power and focus of the ultrasonic field.



20 kHz, diam 100 mm



20 kHz, diam 40 mm,
Thrust 140 g at 100 W



30 kHz, diam 20 mm, Thrust 30 g at 60 W



Power generators in the NexTgen range are set and adapted to the transducer.





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