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Distributed by:

farleygreene
sieving technology

- Food & Drink
- Pharmaceutical
- Chemical
- Nutriceutical
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Sieving partners you can trust.

EC 1935/2004

SM Ultrasonic System

The integration of Ultrasonic technology into Farleygreene's sieving units has proved to be nothing short of a miraculous solution to not only eliminate mesh de-blinding and blocking, but also to accelerate throughputs by a massive 300% in some cases.

The next generation version goes above and beyond the abilities of its predecessor by applying a continuously varying wave, known as 'frequency variation', to the mesh screen. This solves common problems that the 'single wave' resonance frequency systems of the past suffered from; including heating and 'hot spots' that ran the risk of causing premature mesh failure, as well as the individual tuning of each screen in order to work correctly. The new system finds its own frequency and uniformly washes over the entire screen in a smooth and consistent wave pattern; thus reducing the need for wasteful re-meshing. The converter probe is conveniently situated outside the internal sieving area, to escape material caking as well as making the mesh frame much easier to clean. Added flexibility allows users to run 2 screens from one generator box, representing a huge cost saving from other systems on the market, which require the inconvenience of devoting a generator for de-blinding each mesh.

When used with the "Sweepparam" software suite the sonic pulse can be infinitely adjusted to suit the product that is being processed. This software also offers the unique function of up to 6 installed programs for different powders, the program can be preset by Farleygreene after testing and can also be saved as a file for you to install remotely. Each program can have 2 pulse variations allowing a sieving mode for a set time followed by a short powerful cleaning mode if required.

Farleygreene can fit the system to all machines from the 'Sievmaster' range of screening equipment, as well as a simple retro fit onto other manufacturer's existing ultrasonic mesh frames. Test units are readily available for demonstration at our facility, or on site trials can also be arranged.

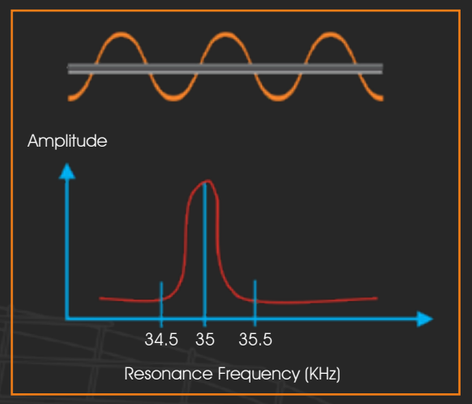
Why ultrasonic screening?

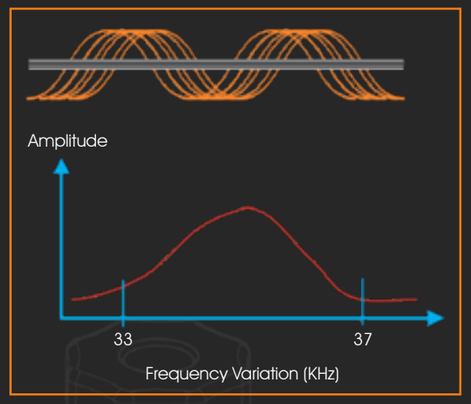
> Delivers efficient sifting of powders with split cuts of < 300 micron
> Improves through put up to 300% in some cases
> Helps to break down agglomerated materials
> Ensures a long term cleaning effect
> Can be used to clean screens in water
> Special attachment for use with laboratory test sieves
> Sweepparam software package to allow remote control & analysing

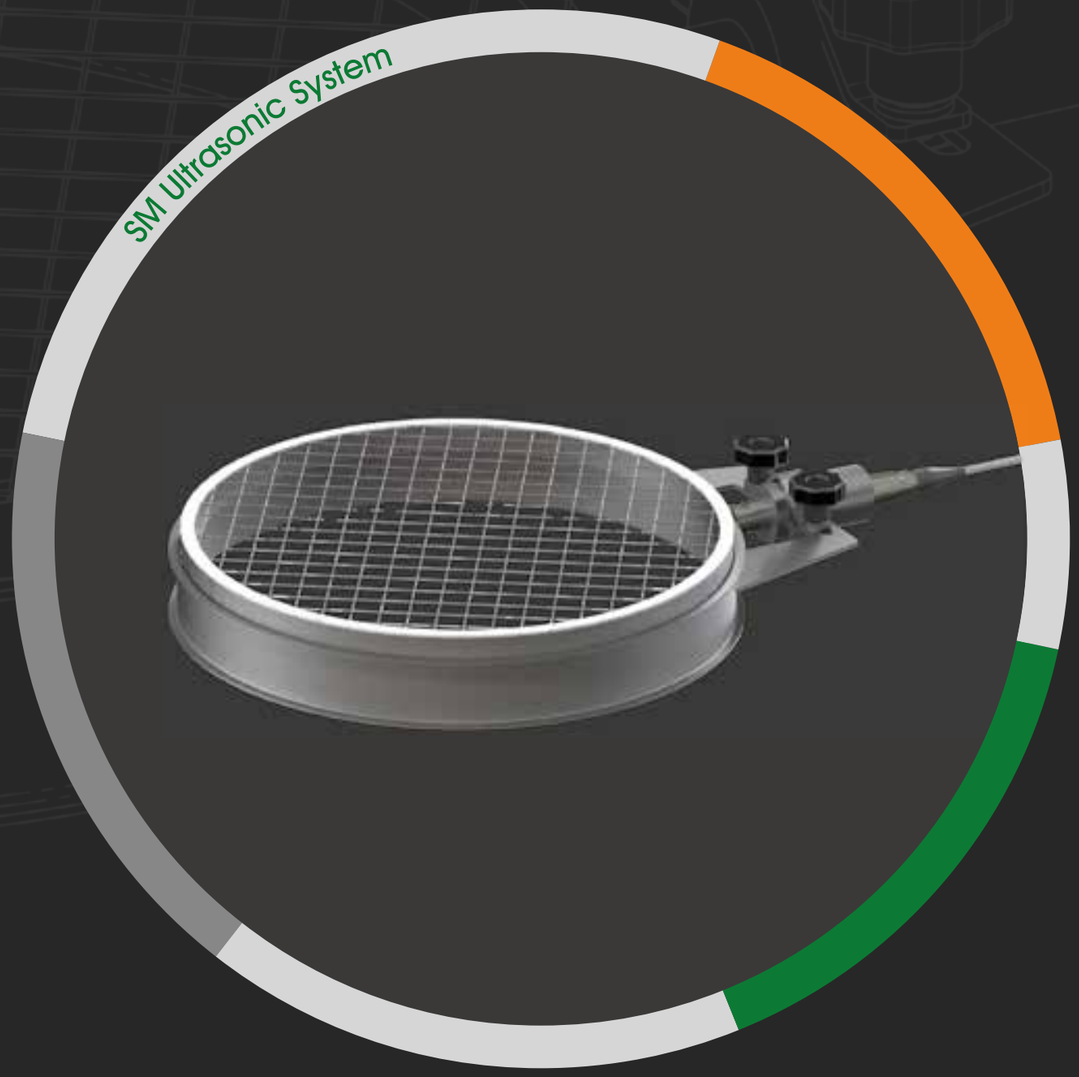
How do ultrasonic screens work?

The generator converts electrical energy into high frequency energy which is then converted into ultrasonic oscillation by the converter. The sound waves cause the screen frame or wave conductor to oscillate at high frequencies.

These oscillations are transferred to the mesh screen where they are evenly distributed. The oscillations of the mesh cloth reduce the frictional resistance between the powders and the screen. This reduces the tendency towards blocking & blinding, resulting in increased throughputs.







sievmaster Ultrasonic System