



ULTRASONIC SUPPORTED SIEVING TECHNOLOGY

SONO SCREENTM



TM – SONOSCREEN is registered trademark of Telsonic AG

Roop Telsonic Ultrasonic Ltd. has been involved exclusively with Ultrasonic Technology since 1982, for more than two decades, thanks to intensive research & development. Roop Teslonic Ultrasonix Ltd. is at the front of Ultrasonic technology.

ULTRASONIC SIEVING ATTACHMENT

SONO SCREEN

A New Sieving Technology

Conventional sieving technology is based on a vibrational / wave motion of the sieve. This action is responsible for the sieve throughput as well as the separation of oversized material.

In addition to the conventional method, *SONOSCREEN* Ultrasonic Supported Sieving Technology evenly transmits as oscillating motion, in the micron range, onto the screen surface. This feature reduces friction between the sieve mesh and bulk material. Depending upon the particle structure this reduction can result in a significant increase in throughput volume. Screen blinding and clogging are also reduced due to the cleaning effect the oscillating motion has on the sieve mesh. A Consistent, efficient production process in guaranteed while simultaneously reducing the related maintenance costs to a minimum.

SONOSCREEN can be applied to both wet and dry sieving applications.

SONO SCREEN

System Components for the Sieving Installation.

SONOSCREEN can be built into or retrofitted to all existing commercial sieving equipment.

The *SONOSCREEN* System components include :

** Ultrasonic Generator :*

A complete electronic unit that can be attached directly to the sieving machine, or mounted on a nearby wall.

** Ultrasonic Sieve Resonator :*

Consists of a converter with ring resonators which are connected to the sieving frame with mounting plates, HF-electrical connection with housing and plug.

** HF-connector cable :*

Standard length 3m / 10 ft connects the Ultrasonic Sieve Resonator to the Ultrasonic Generator.

The *SONOSCREEN* System is suitable for various frame shapes and sizes. Special system that meet the specifications of the pharmaceutical and other special applications are also available.

The Significant Advantages

- * A significant increase in through put volume is possible (3 to 30 times depending on material and size of partical).
- * Considerable decrease of sieve screen blinding and clogging results in a consistent throughput volume.
- * Patented ring resonators produce an even distribution of mechanical oscillations, even for larger sieving frame sizes.
- * System has a low power consumption of approximately 60 Watts/m of screen area.
- * Low, constant operating temperature without localized heat zones.
- * Rigid, explosion-proof, water-proof, stainless steel design.
- * Sieving screen can be mounted by the end user on the sieving frame equipped with *SONOSCREEN*.
- * Long sieve life span. Will not degrade sieve screen.
- * Short pay-back period due to incomparable cost effectiveness.
- * Mechanical cleaning or auxiliary installations can be eliminated, therefore preventing foreign particles from entering the bulk material.
- * Maintenance-free operation.
- * Option of continuous or pulse vibration with adjustable Amplitude.

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