

# Ultrasonic Supported Sieving Technology

## SONO SCREEN™

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



SONO SCREEN

## 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 an 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 is guaranteed while simultaneously reducing the related maintenance costs to a minimum. SONOSCREEN™ can be applied to both wet and dry sieving applications.



SONO SCREEN

## **S**YSTEM 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 resonator 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 Sieving Resonator to the Ultrasonic Generator.

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

## **T**HE SIGNIFICANT ADVANTAGES

- ★ A significant increase in throughput volume is possible (3-30 times depending on material and size of particle).
- ★ 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.
- ★ The system has a low power consumption of approximately 60 Watts/m<sup>2</sup> of screen area.
- ★ Low, constant operating temperature without localized heat zones.
- ★ Rigid, explosion-proof, waterproof, stainless steel design.
- ★ Long sieve life-span. Will not degrade the 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.

**NOTE: Technical specifications are subject to change without prior notice, due to continuous upgradation.**

**C**ONTACTS: **H.O. Mumbai** - Tel: 022-2687 0990/1034. Fax 022-2687 0004, Email : [chetan@rooptelsonic.com](mailto:chetan@rooptelsonic.com).



A/41, Nandkishore Industrial Estate, Off Mahakali Caves Road, Andheri (E), Mumbai - 400 093.

E-mail: [rooptelsonic@vsnl.com](mailto:rooptelsonic@vsnl.com), Web: [www.rooptelsonic.com](http://www.rooptelsonic.com)