

# Ultrasonic Systems

Midwestern has one of the most advanced ultrasonic systems in place today, offering our customers better results with less complication. By utilizing a combination of gyratory vibration and ultrasonics, your process will be more efficient, have greater throughput and less near-size plugging.

The way we accomplish such effective results is by converting electrical energy into high-frequency energy, which is then converted into ultrasonic oscillation by the converter. Unlike other systems, Midwestern's ultrasonic systems use frequency variation generators that excite the screen over a larger bandwidth eliminating the costly and timely process of tuning the screen's ring to meet a sharp resonance.

## ULTRASONICS OFFERS MANY ADVANTAGES FOR YOUR PRODUCTION

**More environmentally friendly** - Ultrasonic systems support a wide range of different process engineering applications in industry. Thanks to ultrasonics, additives and chemicals for cleaning can often be reduced or left out altogether.

**Energy savings** - Thanks to the very high efficiency of the resonant oscillating system, solutions based on ultrasound technology are highly efficient. The energy which is required is applied for only a very short duration, and unlike in thermal processes, there are no systems which require a continuous supply of energy.

**More cost effective** - All manufacturing techniques and processes can be accelerated through use of ultrasonics. This leads to an optimization of production costs and therefore to a correspondingly higher output.

**Faster** - With the aid of ultrasonics it is possible to combine several different processes into a single production step, as a result of which additional human or machine intervention can be avoided and production times can be significantly reduced.

**More economical** - Thanks to faster and more streamlined processes and excellent cost effectiveness. In addition, the sonically active components are exposed to virtually no wear at all, which keeps service and maintenance costs to a minimum.

