



MEGASONIC SWEEPING
INCORPORATED

Technology introduction

What is Sweeping Megasonics?

- The system consists of a power generator and a piezo-electric transducer array.
- Power from the generator to the transducer array is swept around a center frequency.
- The power is distributed evenly to the entire transducer array at once.
- Each transducer is allowed to operate at its most efficient natural resonant frequency.

What happens in the process tank?

- Sound waves are sent from the bottom of the process tank toward the liquid surface.
- Instead of traveling up and out of the tank the sound waves bounce back into the tank.
- The sound waves travel around the entire tank creating cleaning energy throughout the tank.

Features

- Cleaning energy is distributed evenly throughout the entire cleaning vessel.
- There are no hot spots or dead spots of cleaning energy during the process cycle.

Benefits

- Process times can be reduced since all wafers are receiving the same energy at once.
- Wafer to wafer variables are eliminated.
- The life of the transducer array is improved.
- The generator is self tuning allowing no required maintenance intervals or downtime.