



# ResonantAcoustic<sup>®</sup> Mixing

## Blending in various vessels

### Background

Resodyn Acoustic Mixers has developed a novel mixer product line that uses low-frequency, high-intensity sound energy for mixing. The mixer technology, trademarked as ResonantAcoustic<sup>®</sup> Mixing (**RAM**), is applicable for application with a broad range of mixing regimes that include liquid-gas, liquid-liquid, liquid-solid and powder-powder systems. Since **RAM** technology mixes with acoustic energy, there are no impellers, probes, or internal components. The **RAM** technology provides considerable flexibility in choice of mixing vessels. Materials may be mixed in sealed containers, disposable containers, or the end-use containers.

### Mixing in Your Container

**RAM** technology is able to mix in many commercially available containers as well as custom vessels. Mixing in the end container allows for quick batch cycle and no clean up of the mixing equipment.

With no need to transfer material from the mixer to vessels, loss of material due to transfer is non-existent. Mixing in the use container also prevents any issues such as segregation due to transfer of materials.

A single mixer may be used for many applications. No need for dedicated mixers for simple formulation changes such as color.

Multiple containers may also be mixed simultaneously. Various vessel shapes and sizes may be used on the same mixer. Mix in disposable or reusable containers.



Container Examples

### ResonantAcoustic<sup>®</sup> Mixer Benefits

- Easy cleaning
- Blends viscous materials
- Blends powders
- Mix multiple vessels at once
- Fast mixing times
- Can mix in the shipping container

**RAM5** Mixer for production and process development.



**LabRAM** Mixer for lab use and small batch production.



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