



The Power of ResonantAcoustics® and The Throughput of Continuous Processing





Continuous RAM Processing

- Continuous Module Adapts to both RAM 5 and RAM 55 Platforms
- Customized Continuous Flow-Through Modules for Specific Client Processing Needs





RAM Solid-Solid Mixing

- Collision Driven Inter-particle Redistribution
- Collision Intensity Increases with Higher Acceleration



If you are using an Apple device, or otherwise unable to play Flash video, please visit <u>https://youtu.be/01MnABxsFtY</u> to see this video content.







Continous Acoustic Mixer (CAM)



MIXERS



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Continuous Acoustic Mixer (CAM)



Chaotic Particle Motion

Upper and Lower Acoustic Transducers Create Intense, Concentrated Redistribution



Collisions Increase with Acceleration

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Continuous Acoustic Mixer (CAM)

Solid-Solid Mixing Tests

Uniformity of Output – sampled at 5 second intervals

- White sand: 7.0 lbs/min continuous feed
- Red sand: 0.7 lb/min (260 ppm) continuous feed
- 30 g acceleration



CAM Mixing Performance Test



Method

- 210 µm crystalline powder input -102 g/min
- 100 µm powder input -
 - 4.5 g/min
- 60 g acceleration
- 25 seconds residence
- Collected samples from exit orifice

Continuous Mixing





RAM Industrial Mixer Platforms



RAM 55



RAM 5





RAM Continuous Platform



Production Capabilities

CAM Anticipated Processing Rate is Dependent Upon:

- RAM platform product payload capacity
- Residence time for mixing to occur

RAM 5	RAM 55
36 kg payload	420 kg payload
100 g acceleration	100 g acceleration
1 minute residence time	1 minute residence time
2,200 kg/hr processing	25,000 kg/hr processing

 Lower acceleration requirements for specific material may increase processing output rate



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