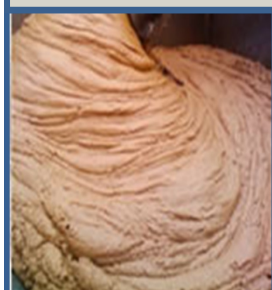




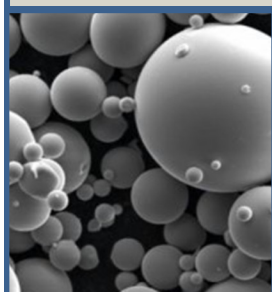
Solids/Powders



Liquids/Gases



Viscous/Slurry



Coating/Nano



Mill/Grind



Integrated, slide-out handles for ease of handling and proper placement.

Ideal for

- Liquids
- Gases
- Solids
- Slurries
- Coating
- Milling

Resodyn Acoustic Mixers' **NEW LabRAM™ I**, features significant operational and control features for mixing and processing a broad range of applications. Many difficult to mix materials can be processed faster, better, more efficiently, and more productively using the **LabRAM™ I**.

Designed around Dynamic Processing Requirements

The **LabRAM™ I** design and features upgrade the original **LabRAM™** with a substantive power increase compared to the first generation, sound level below 70 db, on-board accessory operation, recipe development and data management, and the speed, quality, and lab-to-production scaling **RAM's** reputation is built on.

The **LabRAM™ I** Mixing and Processing Capabilities

- Up to 1.1 lbs. (500 grams) mix capacity for bench-scale developmental capabilities
- Up to 100 g of acceleration at 60 Hz for fast, effective, easy processing
- Develop, test, and store recipes with edit/operation control
- Adjustable vessel holders accept many mixing vessel types
- Manual or automatic/programmable vacuum operation (optional, see back of sheet)
- Temperature sensor - precision resistance temperature detector (RTDs) with m12 connector (optional)
- Fully integrated operating system with touchscreen interface and data download
- Monitoring and collection of the vessel contents' parameter data while mixing
- Multiple level security and access control
- Fully integrated **LabRAM™ I** houses all hardware, eliminating any additional, separate electronics, power and control hardware
- Acoustic housing dimensions 26" H x 19" W x 26" D (cm: 66.1 x 48.3 cm x 66.1 cm)

Global Mixing & Processing Technology

Since its introduction to the marketplace in 2007, **RAM** mixers have become the technology of choice for many commercial mixing and processing applications. **RAM's** unique combination of features and performance has proven successful from laboratories to production facilities, at over 800 locations in 30+ countries worldwide in top Fortune 500 companies across industry .



LabRAM™ I



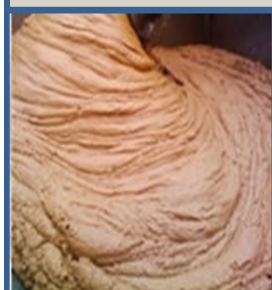
How You Think About Mixing and Processing



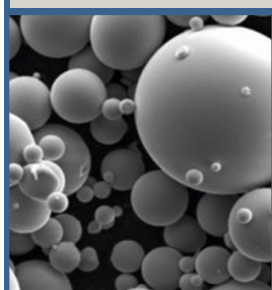
Solids/Powders



Liquids/Gases



Viscous/Slurry



Coating/Nano



Mill/Grind

LabRAM™ I Processing Accessories

A. Automatic Vacuum System

- Control operation and settings through LabRAM operating system, including as recipe component
- Integrate vacuum function in recipes
- Operate manually for development, reaching 10x Torr
- Vacuum lids available for a variety of vessel sizes

A.



B. Manual Vacuum System

- Manual vacuum integrates with LabRAM connecting hardware and routing
- Fingertip analog control
- Ideal for testing and parameter development, with vacuum reaching 10 Torr
- Vacuum lids available for a variety of vessel sizes



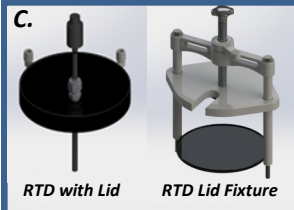
B.



C. Temperature Monitoring

- Resistance Temperature Detector (RTD) feature and fixture available
- Monitor and record temperature changes within a mixing vessel equipped with an optional RTD Port lid
- Retrieve mixing processing, vacuum, and temperature data with additional, provided RAMTools and RAMViewer software

C.



ResonantAcoustic® Mixing (RAM) Product Line Features



LabRAM™ performance is reflected across the RAM product line, enabling new product development and breakthrough results not possible with traditional mixing methods. All RAM products use low-frequency acoustic mixing at up to 100g of acceleration for intense but low-shear mixing resulting in:

- 10—100x faster processing
- Highly reliable repeatability
- Direct scaling from laboratory to production without increases in processing time
- Capacities of 1.1 lbs (500 gram LabRAM™ I), 2.2 lbs. (1 kg, LabRAM™ II) to 11 lbs. (5 kg, OmniRAM), 80 lbs. (36.3 kg, RAM 5), to 920 lbs. (417.3 kg, RAM 55).
- Exceptional ingredient distribution
- Hazardous material compatible options

Witness RAM Technology First Hand, with Your Materials:
 Arrange a FREE RAM demonstration and mixing test at your facility.
 406-497-5333
 info@resodyn.com



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