

LabRAM II™



how you think about mixing and processing



Designed for Dynamic Processing Requirements

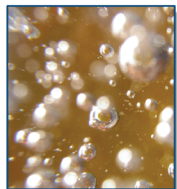
The LabRAM II™'s set of design and features reflects users' critical requirements: processing speed, mixing power, and optimal parameter development to mid-scale pilot and production RAM machines. The integrated touch-screen operating system enables recipe development and data management. Optional processing accessories include vacuum systems and temperature-controlled vessels. The LabRAM II™ delivers better results than traditional mixers through improved efficiency, and enables new product opportunities at a payload capacity that bridges developmental scale with larger batch and continuous production.

Key Processing Capabilities

- Mixing and processing up to 2.2 lb (1 kg)
- Mixes any combination of solids and powders from nano-scale and up, liquids and gases, and viscous and slurry materials
- Milling, grinding, sieving and coating (spray* or dry) capabilities
- On-board control of processing accessories
- Mixing vessel temperature control from 392°F (200°C) heating to -40°F (-40°C) cooling*
- Automatic or manual vacuum as low as 10 Torr*
- Monitor mixing parameters in real-time
- Download processing data for analysis and documentation
- Develop, store, and secure up to 100 recipes for permanent recording operations and measured results



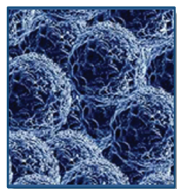
Solids/Powders



Liquids/Gasses



Viscous/Slurry



Coating/Nano



Mill/Grind

Features of the LabRAM II™

- Intense, yet gentle, acoustic mixing for rapid, highly-repeatable, ultra-high-quality results
- On-board human machine interface (HMI)
- Laptop-based human machine HMI*
- Multiple level security and access control
- Height-adjustable vessel holder accepts many vessel shapes and materials: glass, plastic, metal or custom
- Temperature sensor - 316L stainless steel resistance temperature detectors (RTDs) with M12 connector, compatible with vacuum and temperature controls*

**Optional feature*





Global Mixing and Processing Technology

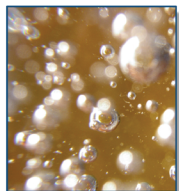
Since its introduction to the marketplace in 2007, ResonantAcoustic® Mixer (RAM) technology has become the premier choice for many commercial mixing and processing applications. RAM's unique combination of features and performance has proven successful at Fortune 500 laboratories and production facilities in 40+ countries across a broad range of industries.

Specifications

General		Operating Specifications		Control Specifications	
Model	LabRAM II™	Maximum Payload Capacity	2.2 lb (1 kg)	Human Machine Interface	Full Color Touch Screen
Technology	ResonantAcoustic® Mixing	Compatible Materials	Solids, Liquids, Pastes, High Viscosity	Operating System	Proprietary On-Board
Intended Use	Batch Mixing of Non-Hazardous Materials	Max Vessel Acceleration	100g at approximately 60 Hz	Programable Mix Recipe Storage	Yes
Unit Dimensions	33" H x 29" W x 24.5" D (cm: 83.8 x 73.7 x 62.2)				
Unit Weight	260 lbs (117.9 kg)	Max Operating db	< 70 db at 3'	Remote Operation	Optional
Country of Origin	USA	Included Vessel Holder Assembly	2.5"- 5" H x 5" Diameter	Power Specifications	
Certifications available	CE, UL	Included Vessels	Application Specific	Required Voltage	100-120 / 200-240 VAC 1 Phase (50-60 Hz)



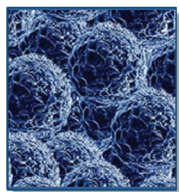
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ResonantAcoustic® Mixing (RAM) Product Line Features

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

- 10 - 100x faster processing
- Highly reliable repeatability
- Direct scaling from lab to production without increasing processing time
- Capacities for:

LabRAM I™	1.1 lb/500 grams
LabRAM II™	2.2 lb/1 kg
OmniRAM™	11 lb/5 kg
RAM 5™	80 lb/36 kg
RAM 55™	920 lb/417 kg

- Exceptional ingredient distribution
- Hazardous material compatible options



Witness **RAM** Technology first-hand with YOUR materials. Arrange a **FREE RAM** demonstration and mixing text at your facility.
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