

# Laboratory Mixers



## LABORATORY MIXERS

Scott Mixers Laboratory Mixers are designed for small scale production and pilot-plant use. These mixers are ideal for testing prior to large scale manufacturing.

### Advantages of using a Laboratory Mixer:

- Fully wired and programmed UL-508A approved variable speed controls
- Perfect for scaling work
- Batch sizes from 0.5 to 5 gallons
- Use with a variety of tank sizes
- Available in two unique sizes MLS and LAS

### Standard Features:

- High quality stainless steel frame, bearing housing, shaft, and mixing head
- White washdown motor
- Clean-In-Place (CIP) design
- Interchangeable mixing heads
- Push button actuated lifts for adjusting mixer height

### Optional Features:

- Higher electro-polish finish available
- Mixing tanks
- Special head options: dispersers, small impellers, scrapers, or sweep agitators
- Mixer can be mounted on cart
- Stainless steel motor



MLS



LAS

## MIXER HEADS

The design of each Turbon head simultaneously draws product from the top and bottom of the batch while dispersing product rapidly throughout the tank. The unique mixing head provides great horizontal and vertical batch flow, ensuring that the product will be evenly sheared and dispersed.



### Head "A"

Designed for the production of fine emulsions and the wetting and dispersion of powders in lower viscosity formulations. It features a cage-like shear element that helps disperse agglomerated particles and standardizes the consistency of the batch.



### Head "B"

Designed for the wetting and dispersion of powders and production of emulsions in higher viscosity formulations. It features a large diameter, toothed disk, which enhances the flow characteristics of the batch.



### Head "C"

Designed for applications where high flow and lower shear are required. It features a smooth disk which can easily blend shear-sensitive products.

## LABORATORY MIXER CHART

Model Size	Max Batch Size USG (L)	Lowered Height IN (CM)	Raised Height IN (CM)	Depth IN (CM)	Weight LB (KG)
MLS	½-3 (1.9-11)	23" (58)	34¾" (88)	23" (58)	100 (45)
LAS	1-5 (3.8-19)	34" (86)	53¾" (137)	31" (79)	185 (84)

Volume may vary depending on product being mixed.

## TYPICAL MIXING:

### Applications

- Dispersion
- De-agglomeration
- Dissolution
- Suspension
- Reaction acceleration
- Particle size reduction
- Homogenization
- Emulsification

### Industries

- Food & Beverage
- Pharmaceutical & Biotech
- Cosmetic & Personal Care

## BENEFITS:

- Lab models are the most versatile small process development mixers available
- Custom designed equipment to fit customer's specific requirements
- Lab mixers help in scaling for full size production processing



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No matter how challenging or demanding your pumping and mixing application might be, we have the experience, expertise, and equipment to deliver an ideal processing solution that meets all your needs.

Our high-quality pumps, high shear mixers, and high-flow mixers are expertly engineered, precisely manufactured, and rigorously tested to meet your exacting specifications and unique requirements.

Our trained experts work closely with you to determine the best equipment and the best system to give you the perfect solution.

We're here to make your job easier, your products better, and your operation more efficient.



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9351 Industrial Way  
Adelanto, CA 92301  
800.285.8512 | 760.246.3430

