

# > Integrity™ WandMixer®

Small-Scale Mixing



## Overview

The Integrity™ WandMixer® system is one of the simplest and most affordable single-use mixing systems available today. WandMixer fits equally well into both product development and cGMP environments, where portability, high mixing efficiency, reliability, ease of use and a small footprint are invaluable assets.

This single-use mixing system is specifically designed to give you scalable, fast, efficient, cost effective, homogeneous mixing of liquids in liquids and solids in liquids. The WandMixer system can be used for a broad range of biopharma applications providing the perfect balance of economy and ability for all of your small-scale disposable mixing needs.

As with all ATMI LifeSciences' single-use mixing systems, the WandMixer system utilizes disposable mixing bags made from ATMI Integrity TK8 bioprocess film. The product-contacting layer of TK8 is blow-extruded in-house by ATMI under cleanroom conditions using medical-grade ultra low-density polyethylene resin. It is then laminated to create a gas barrier film of exceptional cleanliness, strength and clarity that is animal derived component free (ADCF) and complies fully with USP Class VI requirements.

## Highlights & Benefits

- Quicker time to market
- Rapid process changeover
- Reduce capital investment
- Higher return on investment
- Simple and quick bag installation
- Ensure materials integrity across multi-product manufacturing facilities
- Easy to set-up, control and operate
- Bench-Top (1L - 20L, based on min. mix volume)
- Floor-Based (10L - 200L, based on min. mix vol.)
- Provides economy with ability
- Flexible hardware for multiple container sizes
- Increase throughput & improve utilization
- Faster development time and production cycles

## Principle of Operation

The rotational wand mixing technology provides non-invasive mixing inside sterile plastic bags. It is based on rotating of the curved rod pre-introduced in the sleeve of the mixing bag. The rod is separated from the processed sterile fluid by a sleeve which is hermetically sealed on one end. Rotation of the rod induces rotational motion of the sleeve due to flexural shape changes. Flexural rotational motion of the sleeve results in efficient mixing inside the bag.



*Specially designed rod is contained in a hermetically sealed sleeve inside the mixing bag.*



*Flexible and scalable high purity single-use mixing system.*



## Applications

- Purification
- Suspension / re-suspension
- Final formulation, fill
- Media, buffer preparation
- Harvesting

## Technical Specifications

Parameter	Single-Use Impeller
Material	C-FLEX, grade R70-374
Certification	USP Class VI, ADCF
Maximum Operational Speed	Bench-top : 350 RPM

Parameter	WandMixer Drive Unit
Power	Single Phase 115V or 230V AC, 50/60 Hz
Input Wattage	< 150 Watts
Drive Unit Footprint	Bench-top: 28" x 16.25" (71 cm x 41 cm) Floor-based 38" x 30" (96 cm x 76 cm)
Drive Unit Height	Bench-top: 36" (91 cm) Floor-based: 66" (168 cm)
Drive Unit Weight	Bench-top: 70 lbs (32 kg) Floor-based: 80 lbs (36 kg)
Hardware	Stainless steel frame
Control Box Rating	NEMA 4X, IP 65

## Ordering Information

Part Number	Description
RDUAA003A	WandMixer 110V bench-top drive with accessories
RDUAA004A	WandMixer 110V floor-based drive with accessories
RDUAA005A	WandMixer 230V bench-top drive with accessories
RDUAA006A	WandMixer 230V floor-based drive with accessories

Part Number	Description
RSTA005A	5L WandMixer container, clear carbonate
RSTA010A	10L WandMixer container, clear carbonate
RSTA020A	20L WandMixer container, clear carbonate
RSTA050A	50L WandMixer container, MDPE
RSTA100A	100L WandMixer container, MDPE
RSTA200A	200L WandMixer container, MDPE
RDOB050B	WandMixer dolly for 50L containers, SS
RDOC200C	WandMixer dolly for 100L & 200L containers, SS
RESA003A	WandMixer stand for 5L & 10L plastic containers, SS

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ATMI, 10851 Louisiana Avenue South, Bloomington, MN 55438 USA, 800.966.6698 or 952.942.0855 • ATMI, Reugelstraat 2, 3320 Hoegaarden, Belgium, +32.16.76.80.70  
www.atmi-lifesciences.com • info@atmi-lifesciences.com

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