

# MIXER HEADS

**TWIN SHAFT AGITATOR  
FIXED MOUNT, TILT OUT  
MADE IN USA**

# MODEL MV MIXER

## STANDARD FEATURES



**Model TWT-80 with mixer and optional bottom mounted butterfly valve**



**Model LGB-40**



**Model TWU-40**

- ◆ Enclosed, balanced, aluminum, mixer bridge
- ◆ Totally enclosed gear motor
  - ◇ Aluminum cast housing
  - ◇ Right angle output shaft
  - ◇ Single speed type (5 - 10 gallon)
  - ◇ Two speed type (20 - 100 gallon)
- ◆ 304 stainless steel anchor type main agitator shaped to contour of kettle
- ◆ Removable nylon blades scrape entire kettle surface
- ◆ 304 stainless steel secondary counter-rotating beater located between center shaft and outside arm of main agitator
- ◆ Main agitator and secondary beater are bayonet mounted for easy, quick removal for cleaning or when kettle is to be used as a stationary or tilt kettle without the mixing mechanism
- ◆ Actuator-assisted agitator, scraper and bridge lift
- ◆ Positive quick acting rim lock and latch mechanism
- ◆ Safety device prevents high speed starts

Legion equipment is built to comply with applicable standards for manufacturers. Approval agencies may include ASME, NSF, UL, ETL, AGA, CSA, CGA, and others. Legion reserves the right of design improvement or modification as warranted.

## DESIGN FEATURES

Call for supplemental information regarding options

- \_ Alternate rim lock mechanism location
- \_ Single or twin design
- \_ Customized frame design
- \_ 10 : 1 gear head reduction ratio
- \_ 25 : 1 gear head reduction ratio
- \_ 1.57 : 1 beater / scraper ratio
- \_ 1.47 : 1 beater / scraper ratio

**Select mixer voltage:** \_115V\* \_208V \_230V \_460V

**Select mixer phase:** \_1\* \_3

**Select mixer hertz:** \_50 \_60

\*1/3 HP motor only.

Note: Not all kettle options are available on kettles with mixers.

## AGITATOR MOTOR HORSEPOWER AND R.P.M.

**Standard gear head ratio is 15 : 1**

**Standard main agitator / secondary beater ratio 2.6 : 1**

GAL.	HORSEPOWER		R.P.M. MAIN AGITATOR*	R.P.M. SECONDARY BEATER*
5 - 10	Single speed	1/3	17	43
	High	1	46	120
20 - 30	Low	1/2	23	60
	High	1 1/2	46	120
40 - 60	Low	3/4	23	60
	High	2	46	120
80 - 100	Low	1	23	60

\*Based on standard gear head ratio and standard main agitator and secondary beater ratio. Contact Legion for applicable information on optional gear head ratio and main agitator and secondary beater ratios.

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# MODEL LM MIXER

SINGLE SHAFT PORTABLE MIXER  
CLAMP OR FIXED MOUNT  
MADE IN USA

# MIXER HEADS

## STANDARD FEATURES



Model LGB-60 with custom clamp mount portable mixer  
and custom cut-out lid

- ◆ Easy-positioning handle facilitates proper in-tank placement
- ◆ Standard Dura-Mix motor is specifically designed for mixer service
- ◆ Motor and shaft are coupled directly with pilot and keyway for accurate alignment and positive connection
- ◆ One piece aluminum housing provides exact alignment and superior mechanical strength
- ◆ Positive chuck grips the tapered flat on the mixer shaft to prevent unintentional shaft release. For added stability, rigid coupling is standard for longer shafts. Coupling is welded to the shaft.
- ◆ Built-in dampener pad between housing ball and clamp socket minimizes vibration.
- ◆ Clamp mount or fixed mount
- ◆ Mixer adjusts 90° vertically, 360° horizontally for optimal in-tank positioning.
- ◆ High-performance impellers to meet specific mixing requirements

## DESIGN FEATURES

Call for supplemental information regarding options

- \_ Custom fixed mount position
- \_ Custom clamp mount position

**Select voltage:** \_208V \_240V \_380V \_415V \_440V \_480V

**Select phase:** \_1 \_3

**Select hertz:** \_50 \_60

### Mixer selection

To determine your mixer selection, identify the following:

- √ Product to be mixed
- √ Viscosity value of product to be mixed
- √ Temperature of product to be mixed
- √ Specific gravity of product to be mixed
- √ Kettle capacity in gallons

Note: Not all kettle options are available on kettles with mixers.



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