



Mag-drive MST Top Entry CPI Mixer

PREVENT PRODUCT LEAKAGE

Think Magna-Safe when you want to prevent hazardous vapor emissions.

Our mag-drive mixer eliminates the need for mechanical seals resulting in less costly maintenance, fewer spare parts, and decreased downtime.

Benefits

- Rated for High Pressures
- No Maintenance Design
- No Fugitive Emissions
- Absolutely Leak Proof
- Prevents Product Contamination
- Eliminates Costly Mechanical Seal Repairs

**For Toxic and Dangerous Reactions in
Laboratory Mixers and Production
Reactors**

Specifications

- Wetted Parts in 316 L Stainless
- Radial, Axial, Hydrofoil, and Anchor Impellers
- Pressure Rating 150 PSI at 300°F
- Magnets That Cannot Decouple

***The Fusion of Process
Mixing and
Product Safety Through
Mag-Drive Technology***

Extreme Mixing Technology



**All Magna-Safe Mixers are
ATEX Certified**

Standard Features

- No Maintenance, Lightweight Gearbox Can Be Easily Removed.
- Anti-friction Bearings Made of Sealed-For-Life Stainless, or a Non-lubricated Ceramic Hybrid
- Flange Mount as Small as 1.5" Diameter for Small Vessels
- Long, Overhung Shafts

Options

- Torques Up To 50,000 in-lb.
- Retrofit Impellers for Improved Processing
- Testing, ie. Hydro and PMI
- Pressure Ratings to 3000 PSI
- Exotic Alloys and Coatings
- Variable Speed Controls
- Speed Sensors
- Glass Lined Parts

Springer Pumps, LLC

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Mag-Drive MSB Bottom Entry Biotech Mixer

PREVENT PRODUCT CONTAMINATION

We have eliminated all seals, O-rings, and gaskets. Mounting flange is welded to the tank forming a

100% LEAKPROOF design. The Magna-Safe mixer is cleaned in place (CIP) with the vessel.

Benefits

- Proven Validatable Construction Using Documents Provided
- No Maintenance Design
- CIP/SIP Sterilizable
- Absolutely Leakproof
- Prevents Product Contamination
- Run Dry During CIP Cycles

For Injectables, Vaccines, Cell Cultures, and Plasma and Protein Fractionations.

Specifications

- Wetted parts in 316 L Stainless
- Radial and Axial Impellers: 3, 4, and 6 Blade
- Surface Finish < 0.3 μm Ra
- Magnets Cannot decouple

***The Fusion of Process
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Sterile Mixing Technology



All FDA and USDA approved materials.

Standard Features

- No Maintenance, Lightweight, Right Angle Gearbox Can Be Easily Removed.
- Pure Silicon Carbide Bushing. Particle Shedding Proven to be Less Than Requirements Set by USP Standards.
- One Piece Mounting Plate Provided With Mill Certificates.

Options

- Stainless Motors and Gearboxes
- Variable Speed Controls
- Speed Sensors
- Retrofit Impellers for Improved Processing
- Electropolish

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Mag-Drive MSS Side Entry Mixer

PREVENT PRODUCT CONTAMINATION

No other mixer company provides a design that is **100% LEAKPROOF and SEALLESS**. The Magna-Safe mixer is cleaned in place (CIP) and **can be run dry.** The no maintenance design provides **trouble free operation for years.**

Benefits

- Sealless Construction Eliminates the Mechanical Seal
- Absolutely Leak-Proof design
- Prevents Product Contamination
- No Maintenance required
- Sterilizable

All FDA and USDA Approved
Materials

Specifications

- Wetted Parts in 316 L Stainless
- Axial and Hydrofoil Impellers
- Surface Finish < 0.3 μm Ra
- Magnets That Cannot Decouple

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The Future of Mixing is Here



For citrus juices, food oils,
beverages, soups, chemicals

Standard Features

- No Maintenance Gearbox
- Anti-friction non-lubricated Bearings
- Flange Mount
- Process Mixing Warranty

Options

- Stainless Motors and Gearboxes
- Variable Speed Controls
- Speed Sensors
- Retrofit Impellers for Improved Processing
- Electropolished Wetted Parts

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Mag-Drive MST Top Entry Biotech Mixer

PREVENT PRODUCT CONTAMINATION

We have combined the best features of a mag-drive coupling and a mechanical seal. The mechanical seal provides sterile containment while the magnetic coupling provides a

100% LEAKPROOF

design. The Magna-Safe mixer is cleaned in place (CIP) with the vessel.

Sterile Mixing Technology



All FDA and USDA Approved
Materials.

Benefits

- Proven Validatable Construction Using Documents Provided
- No Maintenance Design
- CIP/SIP Sterilizable
- Absolutely Leakproof
- Prevents Product Contamination
- Run Dry During CIP Cycles

**For Injectables, Vaccines, Cell Cultures,
and Plasma and Protein Fractionations.**

Specifications

- Wetted Parts in 316 L Stainless
- Radial, Axial, Hydrofoil, and Anchor Impellers
- Surface Finish < 0.3 μm Ra
- Magnets That Cannot Decouple

***The Fusion of Process
Mixing and
Product Safety Through
Mag-Drive Technology***

Standard Features

- No Maintenance, Lightweight Gearbox Can Be Easily Removed.
- Anti-friction Bearings Made of Sealed-For-Life Stainless, or a Non-lubricated Stainless and Ceramic Hybrid
- Flange Mount or Tri-clamp Ferrule as Small as 2" Diameter

Options

- Stainless Motors and Gearboxes
- Variable Speed Controls
- Speed Sensors
- Retrofit Impellers for Improved Processing
- Electropolish

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Mag-Drive MST Top Entry Glass Lined Reactor Agitator

Magna-Safe is the clear choice:

A Sealless, Leak Proof Mag-Drive design that eliminates a mechanical seal, and comes with a Glass Lined shaft and impeller. The MST can be mounted onto any Glass Lined Reactor.

Benefits

- Mag-Drive Construction eliminates the mechanical seal
- CIP/SIP with the vessel
- 100% Leakproof Design
- Prevents Product Contamination
- Provides operator safety
- Adapts to existing G/L vessels
- No Maintenance Design

Specifications

- Wetted Parts in Glass Lined and in Hastelloy
- Radial, Axial, Hydrofoil, Rushton, Counterflow and Anchor Impellers
- Magnets That Cannot Decouple

***The Fusion of Process
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The Future of Mixing is Here



For Kilo Labs, Pilot Plants and Production.

Standard Features

- No Maintenance Gearbox
- Non-Lubricated Ball Bearings
- Support flange for direct mounting onto G/L vessels
- Right angle or Vertical configuration

**All FDA and USDA Approved
Materials.**

Options

- Stainless motors and gearboxes
- Variable speed controls
- Speed sensors

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Mag-Drive MST Top Entry Cryogenic Agitator (-150°F)

Magna-Safe is the clear choice:

A Sealless Leak Proof Mag-Drive design
that eliminates a mechanical seal
versus
A custom designed Double mechanical
seal special lubrication system.

Benefits

- Mag-Drive Construction eliminates the mechanical seal
- No Maintenance Design
- CIP/SIP with the vessel
- 100% Leakproof Design
- Prevents Product Contamination
- Provides operator safety

Specifications

- Wetted Parts in 316 stainless steel, Hastelloy, G/L Steel
- Radial, Axial, Hydrofoil, Rushton, Counterflow and Anchor Impellers
- Sanitary Polish
- Magnets That Cannot Decouple

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Mag-Drive Technology***

The Future of Mixing is Here



**For Kilo Labs, Pilot Plants and G/L Reactors
that require low temperature processing.**

Standard Features

- No Maintenance Gearbox
- Non-Lubricated Ball Bearings
- Flange Mount or Tri-clamp Ferrule as Small as 2" Diameter
- Solid Stainless Steel Flange and Bearing Housing

**All FDA and USDA Approved
Materials.**

Options

- Stainless Motors and Gearboxes
- Variable Speed Controls
- Speed Sensors
- Retrofit Impellers for Improved Processing
- Electropolish

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