

Custom Industrial Mixers by Reliance Mixing Equipment – Serving Industrial Manufacturers Across the Americas

Reliance Mixers, Among Leading Industrial Mixer Manufacturers Serving Diverse Production Sectors, delivers engineered mixing solutions from its Texas-based manufacturing facility

Missouri City, Texas Apr 16, 2026 ([Issuewire.com](https://www.issuewire.com)) - Reliance Mixers, a U.S.-based manufacturer with over four decades of specialized experience, continues to provide **Custom Industrial Mixers** designed for specific material processing requirements. Since 1982, the company has operated from its facility in Missouri City, Texas, engineering **Reliance mixing equipment** to address production challenges across plastics, chemicals, coatings, and emerging battery manufacturing sectors.

As an **industrial mixer manufacturer serving** clients nationwide, Reliance distinguishes itself through domestic engineering, manufacturing, and support capabilities that eliminate extended lead times for equipment and replacement components.

Comprehensive Mixer Portfolio

Reliance equipment encompasses multiple intensity levels and configurations:

- **High Intensity Mixers:** For demanding applications requiring tip speeds up to 40 meters per second, particularly critical for PVC compounding and homogeneous dry blend preparation
- **Cooling Mixers:** Designed to rapidly reduce material temperatures post-mixing, maintaining batch integrity and preventing degradation
- **Paddle/Universal Mixers:** Low to medium intensity blending for gentle material handling
- **Container Mixers:** Medium-intensity tumbling action optimized for powder coatings, color concentrates, and applications requiring particle preservation
- **Batch Mixers:** Single-batch processing with manual or PLC-controlled operation, configurable from low to high intensity based on material characteristics

Custom Engineering Capabilities

Reliance specializes in [custom industrial mixers](#) engineered around specific material requirements rather than modified catalog offerings. The company's design process addresses:

Application-Specific Parameters:

- Tip speeds ranging from 20 m/s for temperature-sensitive rotomolding compounds to 40 m/s for high-shear PVC processing
- Blade configurations optimized for material flow patterns
- Cooling capacities calculated for specific thermal management requirements
- Vessel geometries accommodating diverse batch sizes and material densities

Control System Integration:

Reliance partners with clients to automate operations and deliver:

- Real-time data acquisition and monitoring

- Precise batch control through PLC systems
- Accurate reporting and batch documentation
- Retrofit capabilities for existing equipment upgrades

American Manufacturing Advantage

With extensive experience supporting industrial production facilities throughout the Americas, Reliance provides mixing solutions with clear operational advantages:

- **Domestic Sourcing:** Components ship directly from the Texas warehouse, eliminating international lead times
- **Direct Engineering Access:** Client calls reach application engineers directly, not outsourced service centers
- **Field Service Capability:** Dedicated team provides installation, start-up support, and ongoing technical assistance
- **Rapid Parts Availability:** Replacement components stocked domestically for minimal downtime

Rebuilding and Enhancement Services

Beyond new equipment manufacturing, Reliance provides comprehensive rebuilding services for industrial mixers from Henschel, Prodex, Plasmec, and Littleford. The rebuilding process includes:

- Complete mechanical refurbishment and component replacement
- Performance enhancements improving cycle times
- Operational life extension for existing capital equipment
- Control system upgrades and automation integration

This capability enables manufacturers to achieve improved performance while maximizing their existing equipment investments.

Industry Applications

Reliance Mixing Equipment serves diverse production environments:

Plastics and PVC Processing:

[High-intensity mixing](#) achieves homogeneous blends in under six minutes, with precise temperature control for optimal gelation and consistent product quality

Powder Coatings and Color Concentrates:

Container mixer technology provides medium-intensity blending that preserves particle integrity, prevents impact fusion, and maintains charge characteristics essential for application performance

Battery Manufacturing:

Specialized mixing solutions for electrode materials, addressing the precise shear, speed, and temperature control requirements for anode and cathode slurry production

Chemical and Specialty Materials:

Batch and continuous processing configurations supporting chemical reactions and homogeneous blending requirements

Technical Performance Standards

Our **mixing equipment** is engineered to achieve specific performance benchmarks validated through production testing:

- High-intensity mixers reaching industry-critical 40 m/s tip speeds for PVC compounding
- Cooling systems are designed to complete temperature reduction before discharge requirements
- Batch-to-batch consistency protocols minimize variation
- Cycle time optimization reduces overall production duration

Control and Automation Features

Modern manufacturing demands precise process control. Reliance systems offer:

- PLC-based operation with touchscreen interfaces
- Variable frequency drives (VFDs) for speed control
- Full instrumentation packages for process monitoring
- Timer, temperature, and amp-based stopping protocols
- Data logging for quality assurance and batch traceability

Commitment to Production Continuity

Reliance structures its operations to support client production schedules:

- In-house manufacturing enables design modifications without external dependencies
- Rebuild capabilities providing rapid equipment restoration
- Technical support infrastructure ensuring responsive assistance
- Spare parts inventory prevents extended waiting periods for components

This operational framework ensures that Custom Industrial Mixers remain productive assets rather than maintenance liabilities.

About Reliance Mixers

Reliance Mixers is a U.S.-based manufacturer specializing in mixing equipment for industrial applications. Since 1982, the company has engineered and built mixing equipment in Missouri City, Texas, serving production facilities across the Americas. As **Industrial Mixer Manufacturers serving** diverse sectors including plastics, chemicals, coatings, and battery production, Reliance provides both new and rebuilt equipment supported by comprehensive technical services and domestically available replacement parts.

For more information on **Custom Industrial Mixers** and application-specific mixing solutions, visit: <https://www.reliancemixers.com/>

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Source : Agreed Technologies

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