

Single-Use Mixing System

SINGLE USE FOR BIOPROCESS

On-site Review

Design&Quotation

Customer Approval

Customized Manufacture

Product Develivery

Product Introduction

- Dreure single-use mixing system comprises a stainless steel vessel and a magnetic mixing motor, engineered for use with single-use sterile mixing bags. It delivers highly efficient liquid-liquid and solid-liquid mixing for a wide range of solution applications throughout the biopharmaceutical process—from intermediate products to final drug products.
- The single-use mixing vessels are available in both round and rectangular configurations, with customizable functional modules to meet specific process requirements, supporting full-scale operations from 10 L to 2000 L. The drive unit transmits power to the mixing bag via magnetic coupling—eliminating physical contact and shaft seals to guarantee 100% sterile and pyrogen-free operations. The high-performance impeller ensures more thorough, homogenous, and uniform material mixing.

Magnetic Mixing System



- Ergonomic & Functional Design: Features a bottom drain port for complete fluid recovery, alongside dedicated side ports for sampling and electrode installation.
- Pharmaceutical-Grade Material: Constructed from premium SS304 stainless steel to meet stringent regulatory requirements for pharmaceutical equipment.
- Superior Surface Finish: Interior surface roughness is polished to Ra≤0.4um.
- Heavy-Duty Casters: Equipped with premium PU casters, ensuring ultra-quiet and smooth mobility.
- Convenient Access: Designed with a side-opening door to facilitate effortless installation and removal of single-use mixing bags.
- Modular & Scalable Platform: Driven by non-contact magnetic coupling, the system can be configured with optional advanced modules, including: Weighing system; On-line pH monitoring; On-line conductivity monitoring; On-line DO monitoring; On-line temperature monitoring; Temperature-controlled jackets.
- Regulatory Compliance: Full data integrity compliant with GMP requirements.
- Customization: Fully customizable configurations are available upon request to meet specific process needs.

Single-Use Mixing Bags

Dreure single-use mixing bags are engineered to pair seamlessly with our single-use mixing systems, which precisely regulate the speed of the single-use magnetic impeller inside the bag. Outfitted with comprehensive fluid paths for inlet/outlet, powder transfer ports, and electrode ports, these bags feature a modular design and can be fully customized to meet specific customer process requirements.



Technical Specifications

Bag Body: Multi-layer co-extruded bioprocess film with a ULDPE fluid-contact inner layer.

Impeller: PE impeller.

Tubing: Premium silicone and TPE tubing.

Port Configuration: 1 x top port, 3–4 x bottom-front ports (fully customizable).

Volume Range: 10 L to 2000 L.







Changzhou Dreure Medical Material Co.,Ltd.

WEB: www. dreure. com

ADD: NO.7 Jinhua Road, Wujin Economic Development Zone , Changzhou , Jiangsu , China

TEL: 86-519-89881356

E-mail: sales@dreure. com