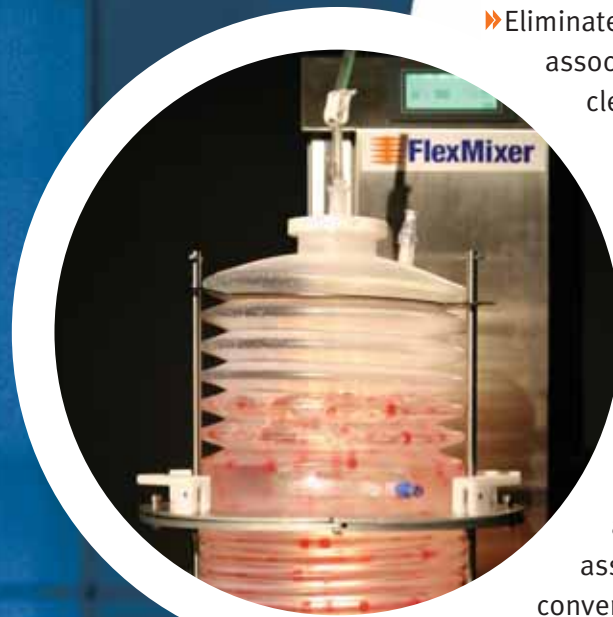


Next generation processing technology

 **FlexMixer**[®]

The first scalable closed processing system that can be used to effectively mix powder/liquid or liquid/liquid solutions without an invasive impeller or actuator.



- ▶ Eliminates labor/time associated with cleaning/sterilization
- ▶ Reduces mixing time/improves productivity
- ▶ Supports contained powder addition
- ▶ Reduces foaming/air entrapment associated with conventional mixers
- ▶ Maintains homogeneity while draining



ILC DOVER
creating what's next ▶▶

ILC Dover's revolutionary new approach to conventional mixing and processing technology. FlexMixer® consists of two basic components: a programmable mechanical actuator and a bellows-shaped processing vessel.

The mechanical actuator attaches to the outside of the septum support ring and drives the perforated septum up and down, creating effective mixing jets throughout the vessel.

The FlexMixer® System, elevating the effect

FlexBellows



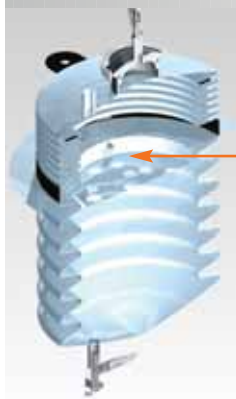
- Constructed of High Strength, Flexible, Reinforced USP Class VI plastic (LLDPE)
- Used as a disposable for applications where cleaning/sterilization is an issue
- Long life bellows reusable for applications where disposability is not required

Mechanical Actuation

- Simple, adjustable, low-cost non-invasive mechanism that provides reliable, efficient, and complete mixing
- Programmable stroke/speed delivers repeatable processing performance



Mixing Concept



- An integral perforated septum is moved up and down by the non-invasive actuator. Fluid passing through septum on each stroke creates desired mixing.

Perforated Septum

Contained powder addition adapter secured to FlexMixer®



Effectiveness of uniform ingredient dispersion

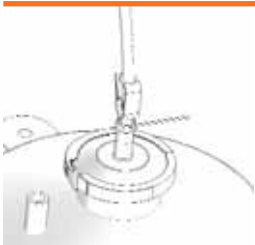
Engineered for Performance



Flush drain valve prevents powder buildup in exit line



Integral sampling ports permit real time process monitoring



Large sealing powder addition port simplifies filling operations



U.S. Patent Pending



Scalable by Design – the FlexMixer 1000

- Up to 500L working volume
- Same jet mixing mechanism as 20L
- Pilot/production scale mixer



Creating what's next –

Coming soon...
FlexSac™

For single use applications

Active in the design and development of products for both government and industry since 1947, ILC Dover consistently provides solutions to a dynamic and diverse customer base.

The technically advanced fabric and film solutions ILC Dover creates become integral elements in some of the world's most exacting industries, including space exploration, pharmaceutical development and defense applications.



ILC DOVER
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