



# POWDER BLENDING SYSTEMS

S&I

SYSTEMS &  
INTEGRATION

# POWDER BLENDING SYSTEMS... USING STATCO-DSI TECHNOLOGY.

## What can MixSys do for you?

MixSys utilizes a vacuum pump and a shear blender in a small footprint to quickly and completely incorporate wet and dry ingredients in to a liquid stream.



# MixSys

## Maximize Product Yields

- Improves product quality, eliminating unblended product
- Reduces processing time on start up
- Operator friendly
- Safe ground level operation
- Economical operation and maintenance

## MixSys Components

- Fristam PZX self-priming liquid ring pump
- Fristam FS shear blending pump
- Powder funnel
- Powder control valve
- Liquid control valve
- Control panel

## Specifications

- Maximum viscosity: 5000cps
- Flow rate: 375gpm
- Discharge pressure: 14psi

## How does the MixSys work?

The Fristam FZX pump pulls the base fluid out of the receiving tank and transfers it to the Mixsys, generating a strong vacuum in the pipe just below the funnel. This vacuum draws the powder or liquid in to the fluid flow, and mixing begins.

The FZX then pumps this mixture through the FS shear pump where any remaining mixing is completed through extreme turbulent action. The product is then pumped from the Mixsys to a batch or process tank.

**Our powder blending systems can protect your product's reputation and quality.**

**Cleaning the MixSys is easy, the system is fully CIP'able and because the MixSys pumps leave behind so little product, the cleaning goes even faster.**

**Low-Cost No-Risk plant trials available.**

## Construction Material

- All product surfaces are constructed of 304L SS
- Funnel: 24" concentric with grate and lid
- Butterfly valves
- T304SS stainless steel adjustable feet standard

## Controls and Software

- Panel bench tested and removable for service when needed
- VFD, NEMA 4X, remote mounting, UL Listing, PLC, valve control and vibration control are all available options

## Additional Options

- Casing drain
- Double seals on pumps
- Adaption to bulk bag feeder

**Find out how you can put Statco-DSI's blending systems to work for you.**



*Tandem high speed powder blending systems*



## APPLICATIONS

We design and manufacture the MixSys for a wide variety of products including:

Food – condiments, dressings, sauces and oil refining

Beverage – teas, waters, juices and mixers

Dairy – chocolate milk, cottage cheese, eggnog, pudding, sour cream and yogurt

Bio-pharm – cough syrups, lotions, creams, ointments, and tablet coatings

Personal Care – lotions, creams, mouthwash, toothpaste, shampoos and conditioners

**Don't see your product listed here? Give us a call today to explore a processing solution that meets your needs.**



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Engineering Solutions That Make Sense.



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