

Introducing the Littleford “EASY CLEAN” Ploughshare® Mixer



www.littleford.com

- **Features Large Access Doors for Full Access to the Vessel Interior**
- **Simplifies the Task of Cleaning Difficult Applications**
- **Reduces Downtime for Cleaning**
- **Provides Better Discharge Capabilities with Optional Dual Discharges or Oversized Discharge Doors**
- **Provides a Better Solution that Addresses Cross Contamination**

Littleford Day

Where Processing Ideas Become Reality

859-525-7600 • Fax: 859-525-1446 • 1-800-365-8555

Littleford Day, Inc., the leading manufacturer of process equipment (mixers, dryers, granulators) for the Food, Pharmaceutical and Nutraceutical industries is offering a newly designed Horizontal Ploughshare® Mixer that is **EASY TO CLEAN**. The full access door across the front of the mixer provides for greater access to perform frequent cleaning operations and other periodic maintenance operations.

This new **"EASY CLEAN"** design is available for batch or continuous material processing. Littleford processing technology provides highly efficient solutions to meet the specific needs of numerous Food, Pharmaceutical, and Nutraceutical applications including: Bakery Mixes, Dry Soups and Gravy Mixes, Spices and Flavorings, Powdered Drink Mixes, Chocolates, Icing Mixes, Candies, Pharmaceutical Granulations, Nutraceutical Micro-Encapsulation and Vitamin Mixes, as well as many other speciality applications.

The Littleford **"EASY CLEAN"** design provides a substantial benefit to Food, Pharmaceutical and Nutraceutical Manufacturers who are concerned with cross contamination from batch to batch in their operation due to:

Allergens • Flavors • Colors • Formula Changes

Littleford mixers, dryers and granulators as well as support accessories can be engineered and constructed to meet the applicable sanitary requirements (USDA, FDA, IQ/OQ, 3-A, BISC) of the Food, Pharmaceutical and Nutraceutical industries.

Further, Littleford Split Seal Assembly is designed to meet the needs of the Food, Pharmaceutical and Nutraceutical process industries for an easily cleaned and maintained mixer shaft seal. These sanitary seals can be easily disassembled, cleaned and reassembled in minutes without the need for special tools and without disturbing bearings or drive components. This sanitary split seal assembly can be adapted for vacuum operation if needed.

This sanitary split packing seal assembly, coupled with the outboard mounted bearings of the mixer further eliminates any possibility of contamination between the bearing and the product.

Littleford Day provides unmatched levels of experience, technical expertise and service excellence to the Food, Pharmaceutical and Nutraceutical industries. Littleford Day maintains a state-of-the-art Process Development and Technical Center to assist our customers in process development and scale-up.

In addition to the above, we maintain a complete line of Rental Equipment in lab size, pilot size and production size equipment.

**Littleford Day is without question...
"where processing ideas become reality".**

LABORATORY SIZES OF FKM/KM SERIES MIXERS				
Model No.	Avg. Working Capacity Cu. Ft.	TOTAL CAPACITY		
		Gallons	Cu. Ft.	Liters
M-5	0.11	1.0	0.20	5
M/DVT-22	0.47	3.5	0.79	22
FM-75	1.70	12.0	2.6	75
FM-130	2.77	34.0	4.6	130

STANDARD SIZES OF FKM/KM SERIES BATCH & CONTINUOUS MIXERS				
Model No.	Avg. Working Capacity Cu. Ft.	TOTAL CAPACITY		
		Gallons	Cu. Ft.	Liters
FKM/KM-300	6	79	11	300
FKM/KM-600	13	159	22	600
FKM/KM-1200	26	317	42	1200
FKM/KM-2000	42	530	71	2000
FKM/KM-3000	65	792	106	3000
FKM/KM-4200	87	1109	148	4200
FKM/KM-6000	128	1584	212	6000
FKM/KM-8000	170	2113	283	8000
FKM/KM-10000	213	2642	353	10000
FKM/KM-13500	288	3555	495	13500
FKM/KM-15000	320	3960	530	15000
FKM/KM-20000	426	5284	706	20000
FKM/KM-25000	533	6605	883	25000

For a free brochure or a detailed discussion about a rental unit, or a thorough lab evaluation, contact us at:

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