LANCASTER PRODUCTS
High Performance Mixing & Pelletizing Technology

K4 - K10 High Shear Mixers

Our K series mixer is the ideal tool for the preparation of powdered materials. The counter current mixing action mixes and pelletizes in one machine and one process.

The high intensive action allows for mixing even the most difficult of materials. Powders, slurries and pastes, with or without water or binders, can be mixed in extremely short cycle times.

The K series mixer excels at producing highly repeatable homogeneous mixes and pellets.

Optimize your Mixing Process

Processing times can be greatly reduced while providing a more homogenous batch using a Lancaster Mixer.

- Free-flowing powders & granular materials can reach desired homogeneity within 1 minute
- Mix-granulation applications are generally completed within a cycle of 6 minutes or less

Minimizes the quantity of any additive and reduced reaction times due to effective dispersion

Consistent mix quality from batch to batch

Partial batches down to 1/3 rated capacity can be handled without affecting mix quality.

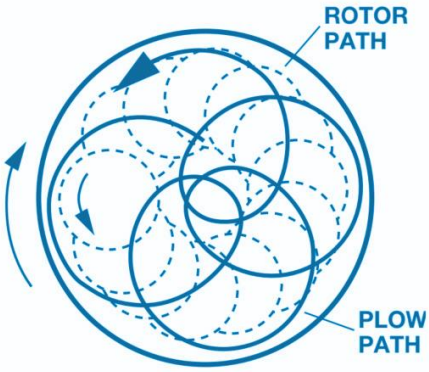
Design Features:

- Larger capacity mixers available.
- Pivoting or rolling discharge gates.
- Dual rotors standard on models K-8 and larger.
- Low shear mixing with or without muller wheels.
- Other tooling arrangements available.
- Special pan linings, stainless steel construction, heating or cooling available.

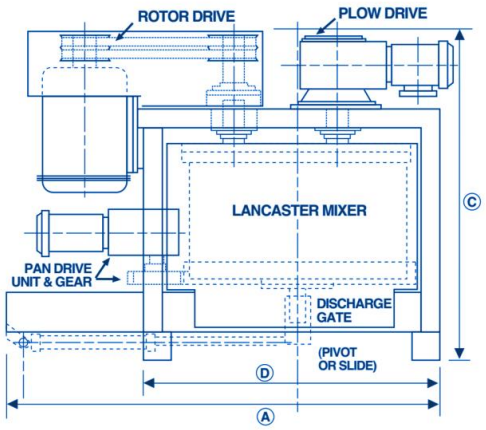
Counter-current mixing action featured in all Lancaster High Shear Mixers is widely accepted as the most effective mixing technique for consistent uniformity, thoroughness and rapid mix time.

COUNTER-CURRENT MIXING TECHNOLOGY

Counter-current mixing action features a combination of a rotating pan, side scraper, and counter-rotating mixing tool and plow which work in concert and eliminates all dead zones in the mixer. The rotating pan conveys material to the strategically placed mixing tools which provides countless material exchanges throughout the batch cycle that allow for rapid homogenization and complete dispersion of minor additives.



EXPANDED TOOL ACTION AS PAN ROTATES



Model	Total Pan Vol. Cubic Ft.	Min Working Volumes		Max Working Volumes		Approx. Weight in Pounds
		Cubic Ft.	Liters	Cubic Ft.	Liters	
K1	0.8	0.1	2	0.3	8	1,100
K3	6.5	1	30	3.5	100	3,000
K3.5	12	1.8	50	6	170	3,500
K4	25	4	120	14	400	6,000
K5	35	7	200	24	680	8,500
K6	73	14	400	45	1,270	13,500
K7	108	20	600	70	2,000	18,500
K8	163	30	900	105	3,000	24,000
K9	220	44	1,320	155	4,400	32,000
K10	304	60	1,800	210	6,000	42,000

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