

K-2

HIGH SHEAR MIXER



PRECISION MIXING FOR SMALLER BATCHES

The Lancaster K2 68-liter high shear mixer is designed to provide superior homogenization with reduced cycle times and is ideal for a wide variety of powder mixing and granulating applications. Designed in response to customer demand, the 68-liter capacity K2 model offers a compact yet powerful solution for small batch production processing or mix prototyping, bridging the gap between our K1 (8L capacity) and K3 (100L capacity) mixers.

Featuring our industry-leading counter-current mixing technology, the K2 delivers the same consistent, high-quality results as all of the mixers in our high shear lineup. It also offers several upgraded components that provide durability and enhanced operator convenience.



BUILT FOR HIGH-PERFORMANCE INDUSTRIES

The K-2 is the ideal mixing technology for any industry that's producing high-value materials including:



High-performance concrete

Achieve exceptional mix uniformity for concrete applications requiring consistent performance in product quality, reliability, and compliance with industry standards.



Ceramics & Refractories

Optimized for hard-to-mix and viscous materials. Employing both counter-current mixing technology and variable intensity mixing, K-Series Mixers are ideal for handling refractory and ceramic applications, delivering excellent homogeneity and short cycle times.



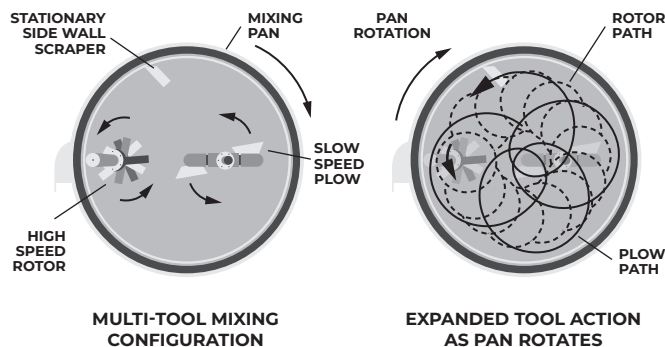
Abrasives & Powders

Perfect for powder blending and high-shear mixing in a convenient batch production size.

The Lancaster Products **counter-current mixing action** is the most effective mixing technology for rapid and consistent uniformity.

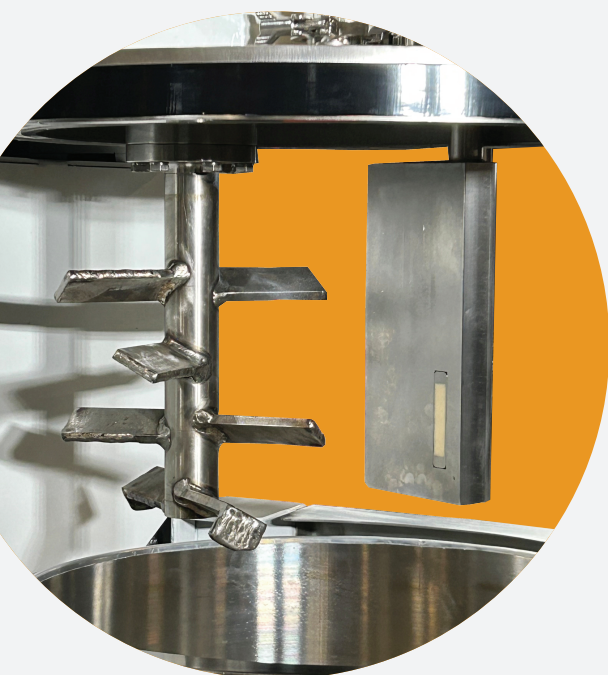
COUNTER-CURRENT MIXING ACTION

Counter-current action occurs when the pan rotates in a clockwise direction, while the mixing tools rotate counter-clockwise creating a shearing action within the mixing cavity. The powerful combination of multiple mixing tools including the rotating pan, high-speed mixing tool, and the counter-rotating plow effectively eliminate all dead zones in the mixer. Mixing tools are strategically placed to promote maximum material interface.



FEATURES AND BENEFITS

- **New 68-liter Capacity** - Ideal for smaller production applications or for prototyping new mix formulations.
- **Counter-current Mixing Technology** - Ensures superior homogenization and faster mix times.
- **Removable Mixing Pan** - Facilitates easy mixing pan clean-up and material moving and dumping when used with optional pan rotator/lifter (up to 110 kg).
- **316 Stainless Steel Pan & Wetted Surfaces** - Improved corrosion resistance and surface hygiene. Stainless steel parts include: Mixing Pan, Mixing Pan Dust Cover, Primary Mixing Rotor, Primary Mixing Rotor Spindle Shaft, and Mixing Pan Sidewall Scraper.
- **Upgraded PTFE Seal Design** - Provides longer seal life, improved dust containment, and improved cleaning characteristics between batches.
- **Redesigned Sidewall Scraper** - Reduces material buildup and provides easier cleanup with new single-piece machined design.
- **Optional: Moisture/Temperature Sensor** - Enables real-time sensing for enhanced quality control.
- **Optional: Pan Rotator/Lifter** - Fully powered for lifting, removing, and dumping the K-2 pan. (363kg capacity).



SPECIFICATIONS

OVERALL DIMENSIONS	
Height	1924 mm
Width	808 mm
Depth	1475 mm
PAN DIMENSIONS	
Diameter	590 mm
Height	380 mm
Max Working Height	250 mm
WORKING CAPACITY	
	68 Liters
POWER	
Rotor	7.5 kW
Pan	2.2 kW