L-Series Low Shear Mixers

L-Series Mixers feature counter-current mixing action and are equipped with **hi-torque, low shear,** rotating plow blades.

Equipped with or without mullers, depending on application.
Can be used for research, testing or production.

Low Shear Tooling

Mulling is sometimes an important addition to mixing. Equipping Lancaster Mixers with muller assemblies imparts the kneading, rubbing and smearing action of a mortar and pestle, along with the intensive mixing of the counter-current system.

Options Include:

- Plow action alone
- Plow with mulling wheels
- Fork tines or cutters can be substituted for plows

L-Series Mixers Ideal for

- Low shear or low energy mixing
- Shear thickening or non-Newtonian materials
- Mixing, slow or delayed chemical reactions
- Processing dusty, abrasive, corrosive, highly viscous or explosive materials

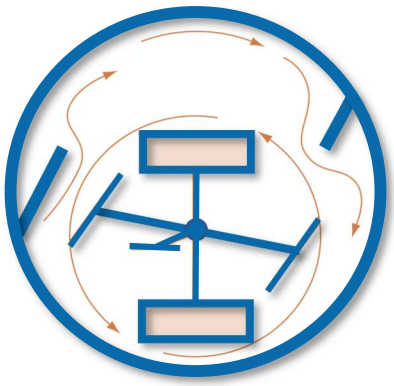
Lancaster Low Shear L-Series Mixers meet your processing needs, handling a wide range of applications. The counter-current mixing action of the Lancaster Mixer is widely accepted as the most effective technique for consistent uniformity and thoroughness.

Lancaster Products L-Series Low Shear Mixers

	PC		LWD		30-DP		1-DP	
Min Batch Capacity	3/4" layer, 1/20 cubic foot, or 1/3 gallon	19mm layer, 1.4 dm3, or Liter	1"-layer, 1/8 cubic foot, or 1 gallon	25mm layer, 3.5 dm3, or 3.5 Liters	1" layer, 3/8 cubic foot, or 3 gallons	25mm layer, 11 dm3, or 11 Liters	1" layer, 3/8 cubic foot, or 3 gallons	25mm layer , 11 dm3, or 11 Liters
Max Batch Capacity	1-1/2" layer, 1/10 cubic foot, or 3/4 gallon (10 pounds)	38mm layer, 2.8 dm3, 2.8 Liters, (4.5 kgs)	4-3/4" layer, 5/8 cubic foot, or 5 gallons, (65 pounds)	120 mm layer, 18 dm3, 18 Liters, (29 Kgs)	4" layer, 1-3/4 cubic foot, or 13 gallons, (175 pounds)	100 mm layer, 50 dm3, 50 Liters (79 Kgs)	4-1/2" layer, 2 cubic foot, or 15 gallons, (200 pounds)	112 mm layer, 57 dm3, 57 Liters, (91 Kgs)
Mixing Pan	12" diameter 5" H	305mm diameter 127 mm H	18" diameter 8.5" H	457mm diameter 216 mm H	29.5" diameter 11" H	749mm diameter 279mm H	29.75" diameter 14" H	756mm diameter 356mm H
Mixing Pan Power	Direct Connected 1/4 HP gear motor 3/60/230-460V	Direct Connected 0.18 kW gear motor 3/60/230-460V	1 HP gear motor 3/60/230-460V	0.74 kW gear motor 3/60/230-460V	3 HP gear motor 3/60/230-460V	2.2 kW gear motor 3/60/230-460V	3 HP gear motor 3/60/230-460V	2.2 kW gear motor 3/60/230-460V
Mixing Pan Discharge	removable pan		removable pan		removable pan		central discharge	
Tooling Power	Direct Connected 1/4 HP gear motor 3/60/230-460V	Direct Connected 0.18 kW gear motor 3/60/230-460V	Direct Connected 1 HP gear motor 3/60/230-460V	Direct Connected 0.74 kW gear motor 3/60/230-460V	Direct Connected 3 HP gear motor 3/60/230-460V	Direct Connected 2.2 kW gear motor 3/60/230-460V	3 HP gear motor 3/60/230-460V	2.2 kW gear motor 3/60/230-460V
Size	16" W 30" D 40" H 325 pounds	406mm W 762mm D 1M H 147 kilograms	23" W 32" D 58" H 1100 pounds	584mm W 813mm D 1.5M H 500 kilograms	32" W 59" D 71" H 1850 pounds	813mm W 1.5M D 1.8M H 839 kilograms	35" W 67" D 78" H 3000 pounds	889mm W 1.7M D 1.2M H 1,361 kilograms

HOW LANCASTER PRODUCTS LOW SHEAR MIXERS WORK

Counter-current action occurs when the pan rotates in one direction, while the mixing tools rotate in the other. The rotating mixing pan conveys the material to the counter-rotating tool assembly. This results in countless cross-over of layers with maximum particle travel both vertically and horizontally, without depending on free fall.



LANCASTER PRODUCTS®
High Performance Mixing & Pelletizing Technology

920 Mechanic Street Lebanon, PA 17046
800.447.7351 | www.LancasterProducts.com