

L-SERIES LOW SHEAR MIXERS

Lancaster Products L-Series Mixers feature counter-current mixing action and are equipped with hi-torque, low shear, rotating plow blades and can be supplied with or without mullers, depending on your application.

L-SERIES MIXERS CAN BE USED FOR RESEARCH, TESTING OR PRODUCTION.



30-DP LOW SHEAR MIXER

LANCASTER PRODUCTS L-SERIES MIXERS ARE IDEAL FOR



Low shear or low energy mixing



Shear thickening or non-Newtonian materials



Mixing, slow or delayed chemical reactions

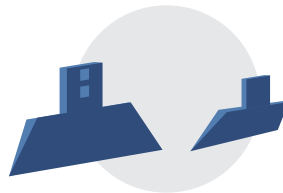


Processing dusty, abrasive, corrosive, highly viscous or explosive materials

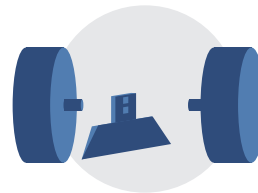
LOW SHEAR TOOLING OPTIONS

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



Plow action alone



Plow with muller wheels



Fork tines or cutters can be substituted for plows

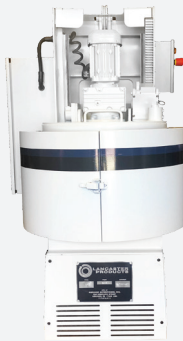
The counter-current mixing action of the Lancaster Mixer is widely accepted as the **most effective technique** for consistent uniformity and thoroughness.

HOW IT WORKS:

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.



L-SERIES MIXERS SPECIFICATIONS



	PC		LWD		30-DP		1-DP/K-3	
MIN BATCH CAPACITY	3/4" layer, 1/20 ft ³ , or 1/3 gallon	19 mm layer, 1.4 Liter	1" layer, 1/8 ft ³ , or 1 gallon	25 mm layer, 3.5 Liters	1" layer, 3/8 ft ³ , or 3 gallons	25 mm layer, 11 Liters	1" layer, 3/8 ft ³ , or 3 gallons	25 mm layer, 11 Liters
MAX BATCH CAPACITY	1-1/2" layer, 1/10 ft ³ , or 3/4 gallon (10 pounds)	38 mm layer, 2.8 Liters, (4.5 kgs)	4-3/4" layer, 5/8 ft ³ , or 5 gallons, (65 pounds)	120 mm layer, 18 Liters, (29 Kgs)	4" layer, 1-3/4 ft ³ , or 13 gallons, (175 pounds)	100 mm layer, 50 Liters (79 Kgs)	4-1/2" layer, 2 ft ³ , or 15 gallons, (200 pounds)	112 mm layer, 57 Liters, (91 Kgs)
MIXING PAN	12" Ø 5" H	305 mm Ø 127 mm H	18" Ø 8.5" H	457 mm Ø 216 mm H	29.5" Ø 11" H	749 mm Ø 279 mm H	29.75" Ø 14" H	756 mm Ø 356 mm H
MIXING PAN POWER	1/4 HP 3/60/230-460V	0.18 kW 3/60/230-460V	1 HP 3/60/230-460V	0.74 kW 3/60/230-460V	3 HP 3/60/230-460V	2.2 kW 3/60/230-460V	3 HP 3/60/230-460V	2.2 kW 3/60/230-460V
MIXING PAN DISCHARGE	removable pan		removable pan		removable pan		central discharge	
TOOLING TIP SPEED	157 ft/min 2.62 ft/sec	0.8 m/s	170 ft/min 2.83 ft/sec	0.86 m/s	256 ft/min 4.27 ft/sec	1.3 m/s	295 ft/min 4.92 ft/sec	1.5 m/s
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SIZE	16" W 30" D 40" H 325 pounds	406 mm W 762 mm D 1000 mm H 147 kilograms	23" W 32" D 58" H 1100 pounds	584 mm W 813 mm D 1500 mm H 500 kilograms	32" W 59" D 71" H 1850 pounds	813 mm W 1500 mm D 1800 mm H 839 kilograms	35" W 67" D 78" H 3000 pounds	889 mm W 1700 mm D 1200 mm H 1,361 kilograms