LANCASTER®
PRODUCTS
Manufactured by Kercher Industries, Inc.
1.800.447.7351
outside of U.S. phone: 717.273.2111
fax: 717.273.2967
email: info@lancasterproducts.com
www.lancasterproducts.com

LANCASTER PRODUCTS

World Leaders in Material Processing Equipment

Lancaster® Low Shear Mixers

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The Lancaster Products Line of Material Processing Equipment
High Shear K-Series Mixers
Low Shear L-Series Mixers
K-Lab Mixers
Pug Mills
Roll Crushers
Table Feeders
Automated Material Handling and Batching Systems
AutoBrik Molded Brick Making Machines

Lancaster® L-Series Mixers

Lancaster Low Shear L-Series Mixers come with or without mullers, depending upon your application. Each model can handle a wide range of applications.

Each is ruggedly constructed, fully self-contained, easy to operate, and simple to maintain.

PC

LWD

30-DP

X-30-BH (abrasives)

1-DP

L3

L4

L80

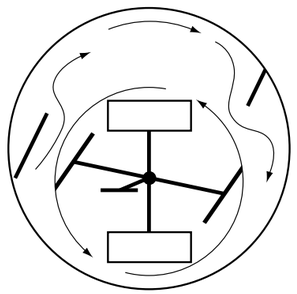
L108

Batch Capacity	**Min:** 3/4" layer 1/20 cu. ft. or 1/3 gal. **Max:** 1-1/2" layer 1/10 cu. ft. or 3/4 gal. (10 lbs.)	**Min:** 1" layer 1/8 cu. ft. or 1 gal. **Max:** 4-3/4" layer 5/8 cu. ft. or 5 gal. (65 lbs.)	**Min:** 1" layer 3/8 cu. ft. or 3 gal. **Max:** 4" layer 1-3/4 cu. ft. or 13 gal. (175 lbs.)	**Min:** 1" layer 3/8 cu. ft. or 3 gal. **Max:** 4" layer 1-3/4 cu. ft. or 13 gal. (175 lbs.)	**Min:** 1" layer 3/8 cu. ft. or 3 gal. **Max:** 4-1/2" layer 2 cu. ft. or 15 gal. (200 lbs.)	**Min:** 2" layer 2 cu. ft. or 16 gal. **Max:** 5-1/2" layer 5 cu. ft. or 40 gal. (500 lbs.)	**Min:** 2" layer 3 cu. ft. or 24 gal. **Max:** 6" layer 9 cu. ft. or 72 gal. (900 lbs.)	**Min:** 5" layer 13 cu. ft. or 95 gal. **Max:** 14-1/2" layer 45 cu. ft. or 300 gal. (2000 lbs.)	**Min:** 15 cu. ft. **Max:** 80 cu. ft. 4000 lbs. w/Mullers 6000 lbs. w/o Mullers
Mixer Pan	12" dia. x 5" Removable	18" dia. x 8-1/2" Removable	29-1/2" dia. x 11" Removable	29-1/2" dia. x 11" Removable	29-3/4" dia. x 14" Central Discharge	45-5/6" dia. x 15-3/4" Central Discharge	59" dia. x 15-3/4" Central Discharge	80" dia. x 22" Central Discharge	109" dia. (top) 80" dia. (bottom) x 46-1/2" deep Central Discharge
Tool Selection	1 Plow or 1 Plow and Muller Pan Side Scraper	1 or 2 Plows or 1 Plow and Muller Pan Side Scraper	3 Plows or 2 Plows and Muller Pan Side Scraper	3 Plows with "Doctor" blades Pan Side Scraper	3 Plows or 2 Plows and Muller Pan Side Scraper	3 Plows or 2 Plows and Muller Pan Side Scraper	3 Plows or 2 Plows and 1 Muller Pan Side Scraper	4 Plows or 2 Plows and 2 Mullers Pan Side Scraper	3 Plows or 2 Plows and 2 Mullers Pan Side Scraper
Mixing Speeds	Tools: 100 RPM Pan: 36 RPM	Tools: 56 RPM Pan: 13 RPM	Tools: 41 RPM Pan: 10-1/2 RPM	Tools: 56 RPM Pan: 16-1/2 RPM	Tools: 47 RPM Pan: 12-1/2 RPM	Tools: 40-60 RPM Pan: 9-13 RPM	Tools: 32-48 RPM Pan: 8-12 RPM	Tools: 28-35 RPM Pan: 7-9 RPM	Tools: 20 RPM Pan: 6 RPM
Drive Equipment	Direct-connected 1/4 hp gear motor 1/60/115v	Direct-connected 1 hp gear motor 3/60/230-460v	Direct-connected 3 hp gear motor 3/60/230-460v	Direct-connected 1-1/2 and 3 hp gear motor 3/60/230-460v	Direct-connected 5 hp gear motor 3/60/230-460v	Direct-connected 7-1/2 and 10 hp gear motor 3/60/230-460v	Direct-connected 10 and 15 hp gear motor 3/60/230-460v	Direct-connected 15 and 20 hp gear motor 3/60/230-460v	Direct-connected 20 and 25 hp gear motor 3/60/230-460v
Sizes and Weights (approximate)	16"w. x 30"d. x 40"h 325 lbs.	23"w. x 32"d. x 58"h 1100 lbs.	32"w. x 59"d. x 71"h 1850 lbs.	33"w. x 51"d. x 52"h (Open - 66"h.) 2160 lbs.	35"w. x 67"d. x 78"h 3000 lbs.	51"w. x 94"d. x 72"h 4500 lbs.	66"w. x 110"d. x 78"h 7000 lbs.	86"w. x 140"d. x 93"h 22,000 lbs.	112"w. x 117"d. x 129"h 43,000 lbs.

What is Counter-Current Mixing?

Lancaster's Counter-Current mixing action is widely accepted as the most effective technique for consistent uniformity and thoroughness. Simply stated, 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 located off-center of the pan. This results in a countless cross-over of layers with maximum particle travel both vertically and horizontally, without depending on free fall.

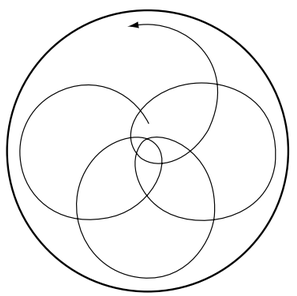
Mulling is sometimes an important addition to mixing. Equipping Lancaster Mixers with muller assemblies imparts the kneading, rubbing and smearing action of a mortar and pestle, along with the intensive mixing of the counter-current system.



Drawing A

Drawing A illustrates the combined action of the pan rotating clockwise while the off-center mixing tool assembly rotates counter-clockwise.

Drawing B illustrates the path of travel created by the tools as the pan completes one revolution. Multiplied in terms of RPM, this mixing action becomes quite intensive.



Drawing B

All information is subject to change without notice.
Parts and assembly made in the U.S.A.

Pub. 500L/15

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