



D.N. LUKENS INC.
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Netzsch Small Media Mills

LMC Series

Made in USA for production of raw materials and pigments

Netzsch quality is now available in a made-in-USA mill. The Netzsch LMC Series mills combine German quality with American innovations to offer you an outstanding small media milling system.

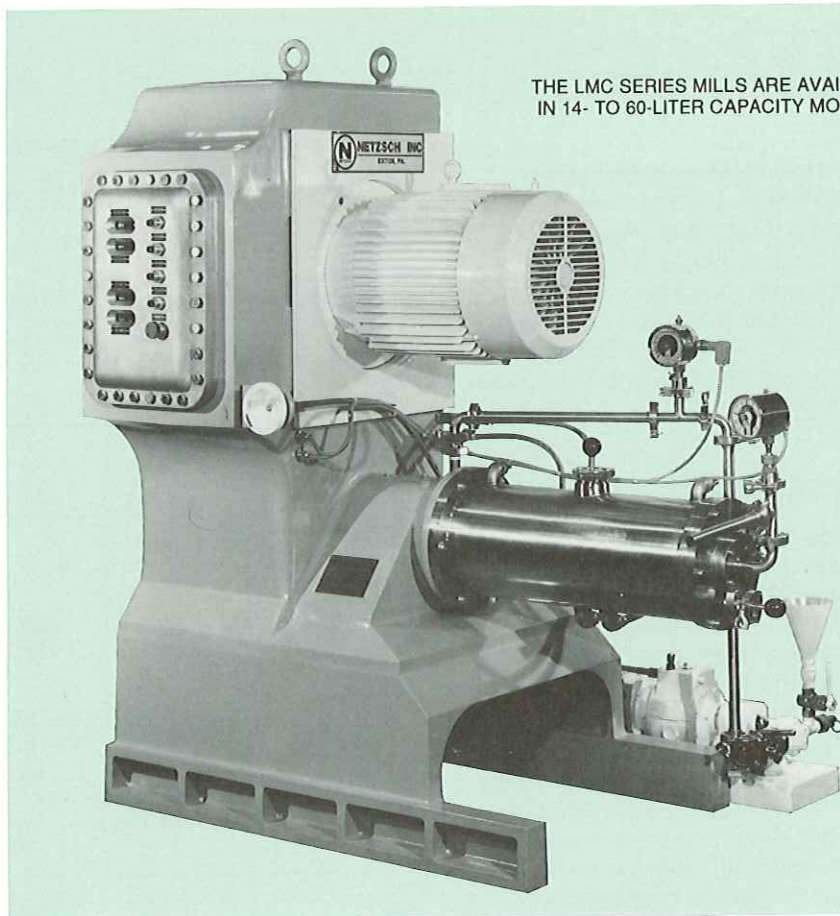
Highlights

LMC Series production size mills utilize a universal cast frame, allowing capacity upgrades from 14 to 60 liters. They are pressurized grinding systems with either a nonclogging Johnson screen, a rotating ring gap, or the dynamic cartridge media separator. The LMC Series is designed to produce fines from solid particles in any type of solvent or aqueous system. The mills produce high-quality dispersions on a continuous basis, producing the particle size distribution required.

Operation

LMC Series mills can utilize either the Molinex, John or concentric milling systems. The Molinex system utilizes an eccentric disc which is designed to push the grinding media against the product flow, eliminating dead zones in the grinding chamber.

The John milling system utilizes a large diameter water-cooled shaft with pegs fastened in rows on the shaft. Activation of the media is further enhanced by rows of stationary pegs which are radially



THE LMC SERIES MILLS ARE AVAILABLE IN 14- TO 60-LITER CAPACITY MODELS.

fastened to the inner wall of the grinding chamber.

The concentric system creates zone grinding for special grinding applications.

On the Molinex and concentric systems, the grinding chamber is designed with two-zone cooling and spiral-grooved interior surfaces to allow greater heat

transfer. The unique chamber assembly is equipped with a media fill port design, and a removable inner liner so, at time of replacement, you can easily slip in a new inner liner.

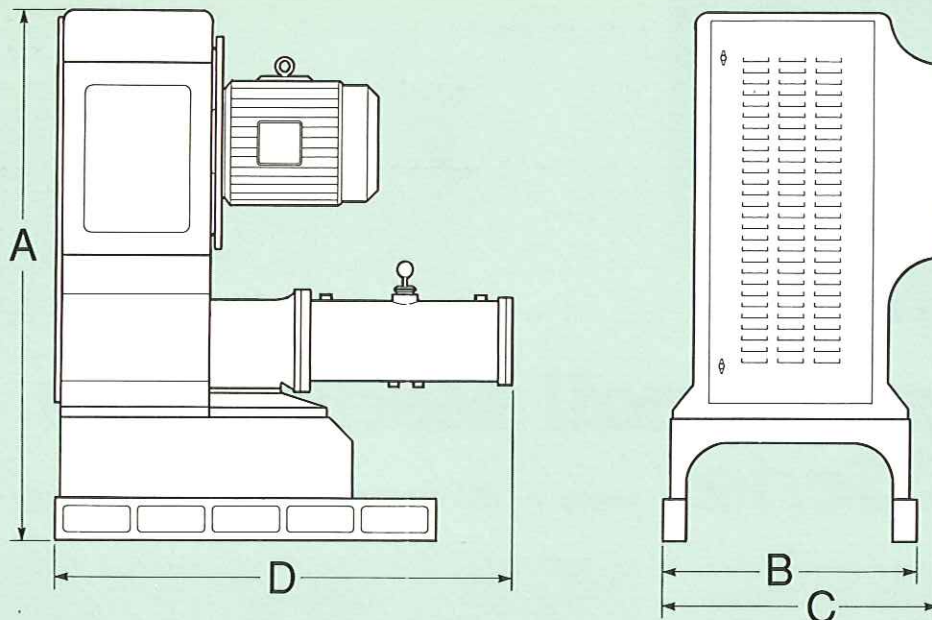
The mills also feature a dual-action cartridge-type mechanical seal with pressure and coolant fluid level switches.



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patented

LMC SERIES



The LMC Molinex systems are designed to operate in low to medium viscosities. Applications with solids up to 75% in some systems are possible. The LMC John systems are also capable of processing ultrahigh viscosities (up to 750,000 cps) and high solids (up to 85%).

Construction

A wide range of grinding media can be used, such as glass, steel or ceramic, ranging in size from 0.25 to 3.0mm in diameter. Separator openings range from 0.1 to 0.8mm depending on which separator is used.

The internal wetted parts of the mill can be constructed of a variety of wear-resistant materials, such as hard chrome plating, wear-resistant steel, tungsten carbide, stainless steel, and ceramics.

The LMC Series mills are state-of-the-art equipment and are unique to any other competitive small media milling system. For further information concerning your specific application, contact Netzsch Incorporated Dispersion Equipment Division (215) 363-8010.

LMC Series Dimensions and Data

Mill Type	LMC 20	LMC 45	LMC 60	LMC 14J	LMC 15J
Grinding Chamber Capacity † Gallons (Liters)	6.00 (22.7)	12.00 (45.0)	15.60 (59.0)	3.95 (14.97)	4.06 (15.35)
Agitator Drive HP	25	50	50	25	25
Pump Drive HP	1.50	2.00	2.00	1.00	1.00
Agitator Circumference Speed (Avg) Fixed FPM (MPS)	1720* (8.72)	1860* (9.38)	1667* (8.50)	2028* (10.3)	1970* (10.0)
Variable FPM (MPS)	1004-2294 (5.10-11.63)	798-1600 (4.06-8.12)	—	1517-3466 (7.7-17.6)	1458-3350 (7.4-17.0)

†Less Grinding Media, with Agitator Shaft Installed

*Other fixed speeds are possible with different pulley and belt combinations.

Mill Type	Dimensions in Inches (Approximate)			
	A	B	C	D
LMC 20	71	34	37	61
LMC 45	71	34	37	73 1/2
LMC 60	71	34	37	76
LMC 14J	71	34	37	60 1/4
LMC 15J	71	34	37	52 1/2

Note: In accordance with the Company's policy of continual product development and improvement, the above specifications are subject to amendment without notice.

