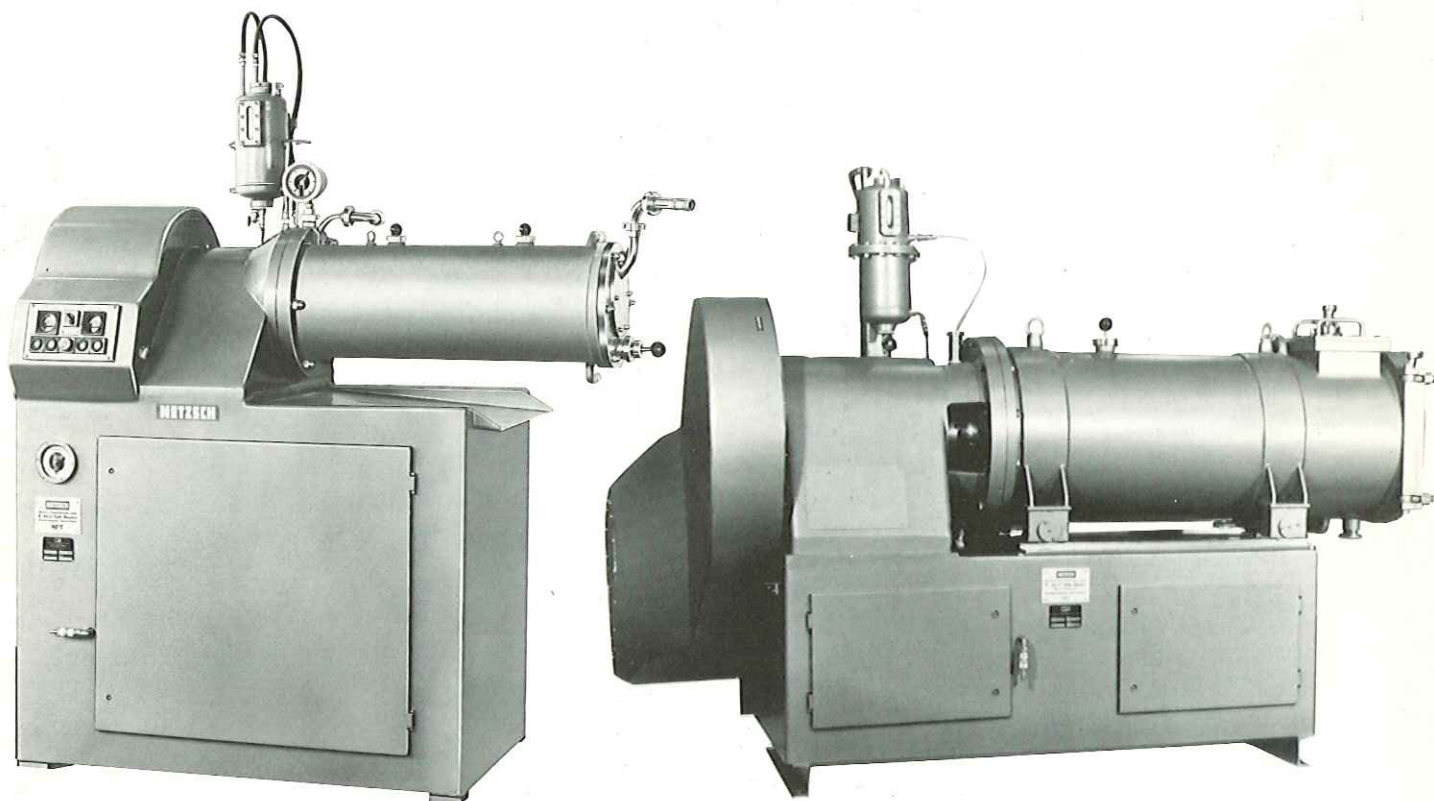




Molinelix Small Media Mill LME Series Closed Design—Horizontal



LME production size mills are pressurized grinding systems with either a non-clogging Johnson screen, or a rotating ring gap product/media separator. 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, with any particle size distribution required.

LME mills utilize the Molinelix principle of media agitation with discs that push the grinding media against the product flow, eliminating dead spots in the grinding chamber. The double-walled, water-cooled chamber can be removed without stripping the agitator shaft seal. Dual-action mechanical seal with pressurized and cooled sealing fluid

has a low-pressure and low liquid level switch.

LME mills are capable of processing low to medium viscosities (200 to 60,000 cps), high solids (up to 75%) in some aqueous slurries. They are convertible to the John milling system, up to the 20 liter size.

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Molinox Small Media Mill LME Series

Materials of Construction

Chambers—high-chrome, wear-resistant steel
Agitators—high-chrome, wear-resistant steel
Gasketing—PTFE, Viton
Separators—tungsten carbide

Optional Materials

Casted ceramics
Flame-coated ceramics
Flame-coated tungsten carbide
Molded urethanes
Stainless steel

Mechanical Seal

Tungsten carbide

Silicone carbide

Carbon

Chrome steel

Mechanical seals are cartridge type, double-acting pressurized, cooled units with a fail safe internal pump.

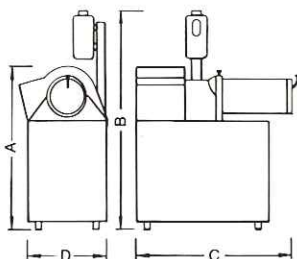
Grinding Media

Glass, steel or ceramic between 0.50 and 3.0 mm in diameter

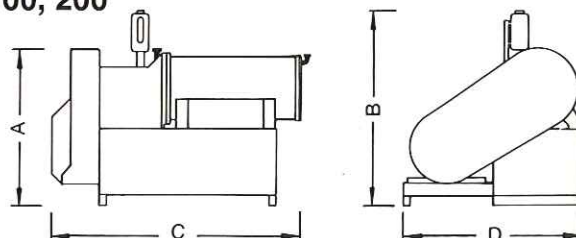
Separators

Johnson Screen with .2, .4, or .8 mm openings
Rotating Ring Gap with .2 to .5 mm fixed slot widths depending on media size

LME 2, 4, 12, 20, 50



LME 100, 200



Mill Type

	LME 2	LME 4	LME 12	LME 20	LME 50	LME 100	LME 200
¹ Grinding Chamber Capacity Gal. (Ltrs.)	0.55 (2.10)	1.10 (4.15)	3.42 (13.0)	6.00 (22.7)	15.6 (59.0)	33.30 (126.0)	61.6 (233.0)
Agitator Drive HP	5	5	20	25	50	75	100
Pump Drive HP	0.75	0.75	1.00	1.50	2.00	2.00	3.00
Agitator Circumferential Speed (Avg.)							
Fixed Ft./Min. (M./Sec.)	—	—	—	1720 (8.72)*	1667 (8.50)*	1782 (9.05)*	1640 (8.32)*
Variable Ft./Min (M./Sec.)	985-2069 (5.00-10.50)	985-2069 (5.00-10.50)	823-1880 (4.20-9.54)	1004-2294 (5.10-11.63)	—	—	—

¹Less Grinding Media, with Agitator Shaft Installed

*Other fixed speeds are possible with different pulley belt combinations

Dimensional Data In. (Cm.) Approx.

	LME 2	LME 4	LME 12	LME 20	LME 50	LME 100	LME 200
A	40½ (103)	40½ (103)	45½ (116)	49½ (26)	59 (150)	59 (150)	59 (150)
B	67 (170)	67 (170)	71 (180)	63 (60)	79¾ (203)	67 (170)	69 (175)
C	33¾ (86)	37½ (95)	43¾ (111)	59 (50)	75 (191)	90½ (230)	105 (267)
D	16¼ (41)	16¼ (41)	21¾ (55)	23¾ (60)	31½ (80)	67 (170)	69 (175)
Approx. Weight Lbs. (Kg.)	617 (280)	617 (280)	1350 (612)	1433 (650)	3307 (1500)	4409 (2000)	6173 (2800)

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