

ZINGER® HORIZONTAL MEDIA MILL



Patented Technology is used in this completely sealed, self-contained grinding and dispersion mill to produce superior fine and ultra-fine dispersions. The Zinger uses an exclusive rotor and vessel design to aggressively accelerate media. This patented design requires less energy and allows the use of small media to do the work. Low to extremely high viscosity slurries are easily and efficiently processed, using a unique rotor and chamber design.



Product Specifications

	LV-40	LV-20	SV-4	XL-1*
Empty Volume Gal/Liters	10/38	7.3/27.5	1.05/4.0	.33/1.25
Roto Speed RPM	variable	variable	variable	variable
Main Drive HP	50	25	10	1
Pump Output/Gal/hr	0-400	0-250	0-50	0-10
Pump Drive HP	1	1	1	Incl.
Length	68.5"	56.5"	54.5"	32"
Width	37"	37"	34"	20.5"
Height	64"	64"	52"	25"

*.25L & .5L sizes available

Principle of Operation

A prepared pre-mixed liquid/solid slurry is continuously pumped into a pressure-sealed horizontal chamber. The chamber contains grinding media and several shaft-mounted rotating rotors. Each rotor is fitted with specially designed vanes. Media is aggressively accelerated at high velocity through the slurry toward the chamber wall,

impacting, shearing, and reducing the size of the solid slurry particles. The chamber wall has several specifically-shaped projections reducing media acceleration, causing media to return to the center and be accelerated over and over again. This prevents hydraulic packing, and typically develops finished micron to submicron dispersions in a single pass.

Standard Equipment

PRODUCT FEED INTERLOCK:

Only the “jog” function is operational unless product feed pump is operating. Prevents unnecessary media and mill wear.

HIGH CHAMBER PRESSURE SHUTDOWN:

All operators shut down if chamber pressure reaches 30 psi/g for maximum safety and long mill life.

AMMETER:

Continuously displays main motor amp draw for optimum efficiency.

TACHOMETER:

Continuously displays shaft rpm to allow adjustment of rotor speed for maximum media acceleration.

TELESCOPING CHAMBER:

Allows easy and complete access to rotor, shaft and chamber interior without need of heavy lifting equipment

DISCHARGE PORT VALVE:

Relieves internal chamber pressure for discharge screen removal, or to drain clean-up solvent.

MEDIA SEPARATION DEVICE:

“Lift-out” heavy-duty cartridge cylindrical screen with precise openings and extra-large area for long life and easy cleaning, low internal operating pressure and high throughput of products.

SHAFT SEAL”

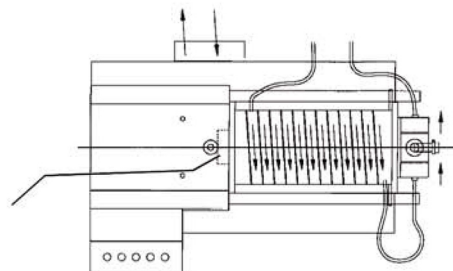
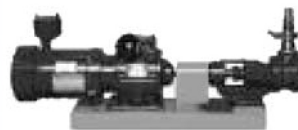
Double mechanical cartridge type cooled with recirculation pump and cooled seal fluid reservoir.

PRODUCT FEED SYSTEM TO MEET ALL APPLICATIONS:

- variable speed Viking gear pump (standard)
- air diaphragm pumps (optional)
- progressive cavity pumps (optional)

SUPERIOR HEAT TRANSFER:

with a fully-baffled, high-velocity cooling jacket on chamber and discharge end.



Options

- Special materials of construction for harsh or corrosive environments
 - 304 & 16 L-Cast stainless Steel
 - Ceramic
 - Urethane
- Chemical Duty, TEFC or other Electrical Controls
- Full Function Microprocessor Controls

