

# Vertical Type BEAD MILL

COMPLETES ISO 9001:2000 SYSTEM CERTIFICATION



**HMD-15AL Air Pump**



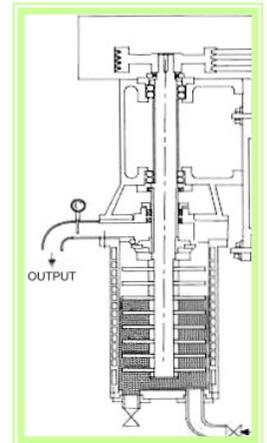
**HMD-15KL Gear Pump**

### Characteristics:

The vertical and integrated design of grinding mechanism, feed pump and electric controlled box make the mill ideal for easy operations and space saving. The inner layer of the cooling jacket design grinding chamber made from heat treated chrome steel hardness reached to HRC62°. The wear-resistant characteristic is the best in its category. The outer layer made from SUS304 Stainless steel. The circulating cooling system effectively maintains the optimal operating temperature. The grinding chamber can be rotated 360° for easy dismantle, cleaning, assemble and adjustment maintenance. Loading grinding beads is easy. The thermometer equips in the best location to measure the ground materials for accurately monitoring the processing.

The feeding pump of models with suffix KL equips with inverter controlled transmission motor to achieve the best materials feeding. The feeding pump of models with suffix AL equips with air operated dual diaphragm pump which uses air pressure to control the flow of the materials. Both types can achieve optimal material flow.

The vertical design of the mill feed the material into bottom of the grinding chamber and output the materials from the upper part of the chamber. Owing to its specific gravity, the grinding beads will move downward forming a better circulation of the materials which force raw materials dwell in a very narrow space and impacted by the high speed accelerated movements and rotation of the grinding beads, After mixing, emulsification, dispersing, kneading, and rotating, the raw materials will achieve its fineness. The finished raw materials will be out through the high speed rotation tungsten steel separation gap. All materials 100% pass through the grinding process and achieve a perfect grinding result. The process operates within a closed and pressure chamber to prevent the solvent from volatilization. This will ensure the operators working in healthy environment. Furthermore, save the energy to reduce the production costs. Vertical Type bead mills are ideal for passage and circulation process as well. The circulation process can achieve fineness under 5 μ .



Sectional View of Machine



### Applications:

Paints and inks, Pigments and Dyestuffs, Cosmetics, Food processing, Pharmaceuticals, Electronics materials and other medium to high viscosity liquid materials.



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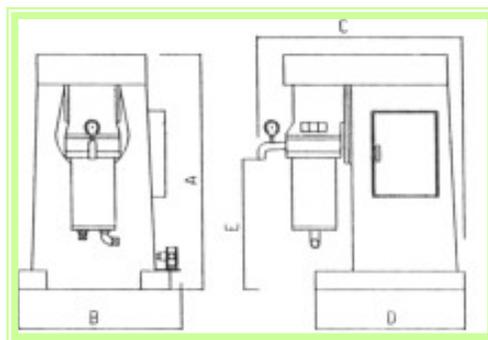
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- (1) **Diaphragms type 3 setting points Pressure Gauge:** It controls the inner operating pressure of grinding vessel. When pressure over high setting point, the feeding pump will stop sending the substances automatically. When pressure down low under this high setting point, the feeding pump will automatically start to send the substances.
- (2) **Whirling light type Alarm:** When running machine has over load, the machine will stop, and whirling light Alarm will flash and whirl. The buzzing sound will come from Alarm for warning.



- (3) No need to apart the machine, the lateral hole can fill the beads.
- (4) Outlet pipe inclines 5°, it prevents the substance remaining inside of outlet pipe. Outlet pipe configures thermometer, can see the product's temperature.



MODEL	Grinding Vessel (Liter)	Main Motor (HP/KW)	Speed M/sec	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight (KG)
HMD-15AL/KL	15	20/15	12	1900	1300	1500	1100	1000	1400
HMD-30AL/KL	30	30/22.5	10	1900	1300	1500	1100	1000	1600
HMD-50AL/KL	50	50/37.5	8	2100	1400	1650	1200	1100	1900
HMD-75AL/KL	75	70/56	8	2100	1400	1650	1200	1100	2000



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