

## Vinodrai

## Introducing India's Most Advanced





Two Stage Pulveriser Model VI-450-30, VI-450-40 & VI-450-40x2

# Powder Quality and Profitability goes hand in hand

### Quality Powder = Economical Rotational Moulding.



Rotational moulding needs resin in powder form. The particle size, shape and particle size distribution is measure of powder quality. Powder quality plays a very important role in rotational moulding. Following are the resultant effects of the good quality powder. Optimization of charge weight to meet rising compitition.

- Improved finish and colour of the product.
- Reduced fusion time in oven.
- A good quality light weight multi-layered and foam insulated tank.

next generation two stage pulverizer. To achive above objective pulverizer must have following features. Ability and control to give uniform and consistant Powder Quality.

Realizing the needs of the rotaitonl moulders, engineers at Vinodrai set out to develop the

- Power required per kg. should be low for given mesh size. Cooling of grinding elements must be sufficient and effective.
- Hight Output rate to meet ever growing demand.
- Ability to run machine un-attended. All System protection to minimize breakdowns.
- Easy to clean & short colour change over time. User friendly operation.
- Vinodral two stage pulverizer is work-horse for leading rotational moulders.

insures course and fine grinding. This increases the life

of fine teeth. Disc are made from special alloy steel

imported from BOHLER Germany. Easy opening of

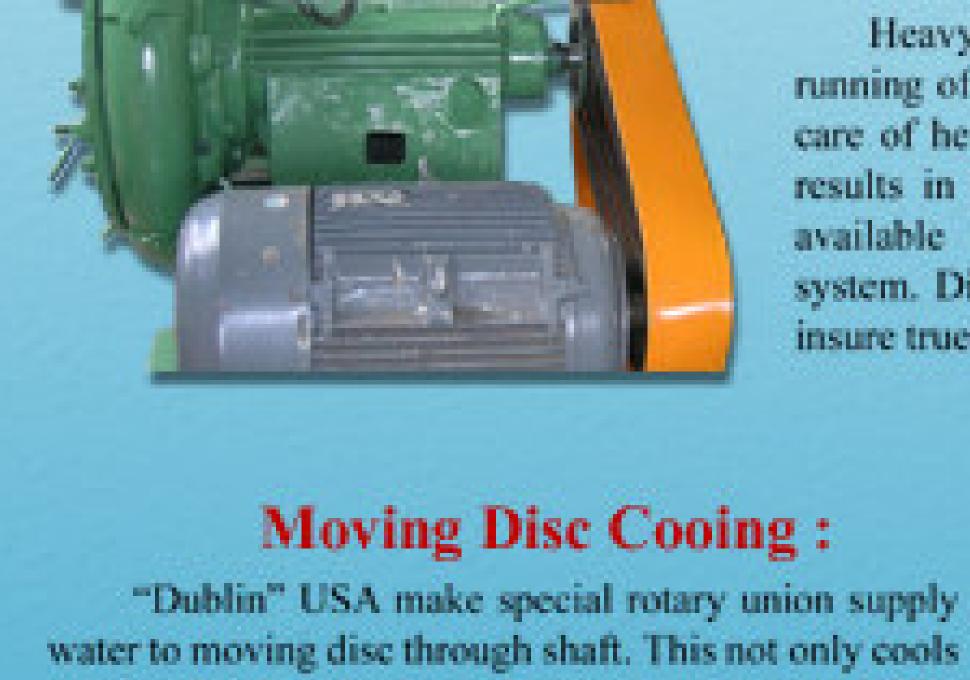
the disc mill on hinge insures quick cleaning. No need

to set the gap every time mill is opened for cleaning.

#### Vinodrai is manufacturing two basic models namely VI-450-40 & VI-450-30 with capacity to pulverise 120 Kg/Hr and 80 Kg/Hr respectively. The pulveriser consist of following main systems.

Description Of Two Stage Pulverizer.

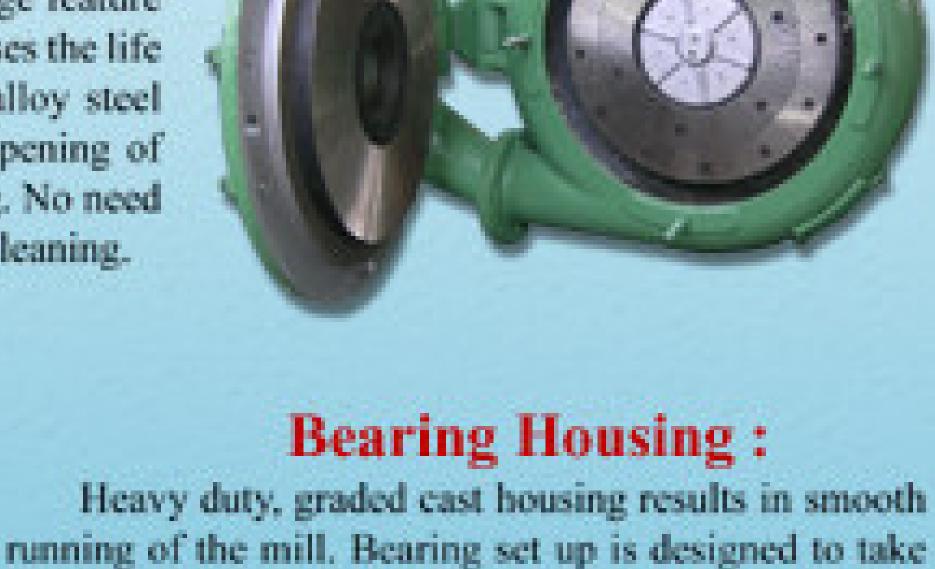
Two Stage Disc Mill: Disc Mill is heart of pulveriser. Two stage feature



results in increase of out put and also machine can

grind heat sensetive polymers. Taper lock pulley from

"Fenner" improves transmission efficiency.



#### results in less energy consumption. Machine is also available with automatic oil circulating lubrication system. Disc is mounted on taper nose of the shaft to

care of heavy thrust of grinding. Oil bath lubrication

insure true rotation & easy dismantling. moving disc but also keeps bearings running cool. This



### trouble free flow of powder.

Vibratory Screen & Cyclone:

Large volume cyclone for efficient

seperation of powder and vibratory

screen with anti-blocking deck insure



### current. Control panel offers all protections and interlocks, so that machine can run un-attendent

safely.

Optional:

3 ton capacity closed loop water chiller. PLC controlled machine. Specifications of Pulveriser:

Monitors temperature of disc mill & controls the

feeding of material under over temperature condition.

Circuit also monitors mill motor current and takes

corrective action if mill motor draws more than set

opecine and the contract.			
	VI-450-30	VI-450-40	VI-450-40×2
Type of Pulverizer	Disc Mill	Disc Mill	Dual Disc Mill
Disc Diameter	450 mm	450 mm	450 mm
Main Mill Motor	30 HP	40 HP	40 HP. 2 Nos
Output (With LLDPE RM Grade )	80 kg	120 kg	240 kg
Vibro Siever	900 mm	1200 mm	1500 mm
Siever Motor	1.0 H.P	1.5 HP	30 HP
Air Lock Valve	0.5 HP 16 rpm	0.5 HP 16 mm	0.5 HP 16 mm
Blower	3.0 HP	5.0 HP	7.5 HP
Water Cooling		1) Stator Disc 2) Rotor Disc 3) Main Shaft	1) Stator Disc 2) Rotor Disc 3) Main Shaft
Disc Temperature Monitor	Yes	Yes	Yes
Motor Current Monitor	Yes	Yes	Voe
Magnetic Separator	Yes	Yes	Yes
Auto Lub. Pump	Ontional	Optional	Yes
Electrical Supply	3 Ph 440 V AC 50 Hz	3 Ph 440 V AC 50 Hz	3 Ph 440 V AC 50 Hz
Connected Load	35 HP	47 HP	91 HP
Over All Dimensions	30x28x40mt	30x28x40mt	50×30×40mt
Gross Weight in Ko	2500	3000	4200

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