Pulveriser

Hovert Machines is a high swing type grinding mill pulverisation is achieved by the impact of the grinding chamber. The fine Powder is swept by the blower suction from the grinding chamber via whizzer cone. The function of whizzer cone is to check the oversize particles and thus to regulate fineness SAND IS SEPARATED OUT from material from the grinding chamber by a special arrangement at an extra cost.

The blower delivers the pulverised powder in the cyclone air separator. The powder is discharged from the cyclone spout. The separated air return to the grinding chamber to complete the air circle.

The excess air is bled off through dust collector filter bags. The extra fines are collected there.

Hovert Machines is an ideal unit for grinding non-abrasive soft medium and hard minerals and also Gram-dal tamarind seed. The pulveriser is manufactured from best raw materials. The main body of the grinding chamber whizzer chamber and the blower are made of heavy duty cast iron every portion which comes in contact with the materials is lined with heavy duty steel plates. The striking face of the grinding chamber is lined with hard iron replaceable plates. Thus protecting the machine from wear and ensuring it for long life. The grinding chamber is provided with a pocket in which small pieces of iron nuts and bolts are trapped.

The main drive shaft is run on two double row self aligning heavy duty Ball or Roller Bearings.

IMPACT PULVERISER (Fineness upto 325 Mesh / 43 Microns)

" Designed as per individual Product requirement based on our grinding experience "

Hovert Machines are impact type, high speed, air swept, swing hammer type, multipurpose grinding mills capable of grinding soft to medium hard minerals & chemicals upto the hardness of 2.5 - 3.0 Mohs. The Pulveriser is supplied with a hopper below which is a Star Feeder actuated by a Pawl & Ratchet Mechanism. Fine Grinding is achieved by compression, shear, abrasion, attrition and impact of Hammers on the materials against the replaceable Radial Liners.

The Pulverised Product is sucked by the Strong suction Centrifugal Blower through internal Whizzer Classifier. In between the Centrifugal Blower and Grinding Chamber is the internal Whizzer classifier consisting of blades with tips tapered to confirm the degree of Whizzer Cone. The Coarser material is thrown

back into the grinding chamber for re-grinding and only fines pass though it. Fineness can be controlled by clamping the clamp at a suitable position. The entire wearing portion consisting of Grinding Chamber, Whizzer Cone and Centrifugal Blower are lined with replaceable lining plates.

The Function of the High Efficiency Cyclone Air Separator is to separate the Pulverised material from Air which is re-circulated in the Grinding chamber to complete the closed circuit grinding action. Excess Air coming in the system is bled off through Dust Collector.
The main mill is supplied with Automatic Feeder, High Efficiency Cyclone Air Separator & Dust Collector. The material of construction of internal parts of Pulveriser main mill, cyclone air separator & dust collector varies as per individual requirement. The Pulveriser is supplied with Digital (Automatic) Feed Controller for maximum feeding.

Star Features:

- Heavy Duty Construction
- Low Power Consumption
- Better Fineness control
- Automatic / Screw Feeder
- Trap Iron Pocket
- High Reduction Ratio
- High Grinding Efficiency
- Low Operating and Maintenance Cost

Pulveriser Supplied With:

- Automatic Star / Screw Feeder
- Built-in Whizzer Classifier
- Centrifugal Blower
- High Efficiency Cyclone Air Separator
- Dust Collector
- Free Silica Separator (Optional)
- Anti- Vibration Channel Frame & Pads (Optional)

Given below is the table indicating the pulverising capacity on average basis however the capacity figures will vary from case to case depending upon several factors. These figures are meant for guidance only.

Material for Grinding	Size of the Machine & Pulverising Capacity Kg. Per Hour Fineness of 100 to 325 Mesh				
	20	25	32 Std.	32 Brd.Ch	42
Bauxite	200	350	500	650	1000
Bentonite	300	500	800	1200	2000
Besan	200	400	800	1000	1500
Calcite	250	400	550	800	1300
Chalk	200	400	700	1100	1800
China Clay	250	450	800	1000	1600
Chromite	100	150	250	350	550
Coal	250	400	600	900	1500
Graphite	40	125	-	350	500
Gypsum	200	400	700	1000	1600
Hydrated Lime	250	450	700	1000	1500
Lime Stone	200	450	700	1000	1500
Ochres	250	450	700	1000	1500
Pyrophyllite	200	400	700	1000	1500
Soap Stone	250	450	700	1000	1500
Power Reqd. for Pulveriser (in H.P.)	15 to 20	20 to 30	40 to 50	50 to 60	100 to 125
R.P.M. of Pulveriser	2200	2000	2000	1800	1800