



JAIVIK HAMMER MILL (JVHM)

Introduction

Grind through the toughest materials with our fully mechanical hammer-action JVHM series pulverizers. It is accurate, and allows you the most diverse range of functions across multiple industries. Operated with utmost ease, the JVHM series is immune to outside dust, and abrasions. Achieve precise milling of any input, with at least four feed options, two hammer types, and different screens. The opportunities are limitless!

Working Principle

The Jaivik Hammer Mill (JVHM) is an impact pulverizer/mill. It grinds solids to achieve coarse to fine particle size distribution, normally in the range of 70 microns to 3 mm. Its rapidly moving hammers impact the liners causing the particle size reduction of the product. A screen is fitted at the bottom of the mill, which retains coarse materials while allowing the properly sized materials to pass as finished products. The Mill needs positive suction at the mill outlet to provide necessary circulation of air through the grinding chamber & dust free operation.

Mill classified by Feed Method :

- ▶ **Screw Feed** : For granular/lumpy solids up to 40-50mm
- ▶ **Suction Feed** : For light fluffy solids, utilizes maximum impact force.
- ▶ **Air Injection Feed** : Increases fineness and capacity, cools down operation.
- ▶ **Gravity Feed** : For coarse grinding of larger pieces

Mill classified by Hammer Type :



LFS hammer : Has the most surface area and is used at high speeds to produce the finest particle sizes



Swing bar hammer : used on materials that do not respond well to impact. Mostly for Fibrous materials that need to be cut or shredded work.



Rigid bar hammer : used for coarse or granular size reduction and for producing narrower particle size distributions.

JVHM mills are made of either Cast Iron or SS casted with CF8 standards which are covered by **ASTM A351** and **ASTM A745** standards depending on the requirements.

Design Features :

- ▶ Remarkable Accuracy
- ▶ Unbelievable Efficiency
- ▶ Versatile Applications
- ▶ Abrasion resistant.
- ▶ No product contamination with external greasing arrangement for bearings
- ▶ Dust-free Operation
- ▶ Low Energy Consumption
- ▶ Closed circuit grinding with refrigerated air or inert gas



PARAMETERS	UNIT	JVHM 000		JVHM 100			JVHM 200			JVHM 300			JVHM 400			JVHM 500			
Capacity Factor	-	0.1	0.2	0.4	1	1.7	1.3	2.6	4	3.1	7.6	10	10	14	20	20	28	36	45
Main Motor (2 Pole)	kW	0.55	0.75	2.2	3.7	5.5	7.5	11	15	18.5	30	37	45	55	75	90	110	132	160
Feed motor	kW	0.375		0.375			0.375			0.75			0.75			1.5			
Maximum Feed Size for Screw Feed "H"	mm	12		14			25			25			25			25			
Maximum Feed Size for Gravity Feed, Suction Feed (W&S)	mm	Not Applicable		35			50			75			75			75			
Maximum Rotor Speed	RPM	14000		9600			6900			4600			3450			2985			
Approximate Footprint of Mill	L x W x H	0.8 x 0.8 x 1.5		1.1 x 0.9 x 1.2			1.25 x 1 x 1.5			1.9 x 1.4 x 2			1.9 x 1.4 x 2			2.5 x 1.7 x 2.3			
Floor area Required	m ²	0.65		1			1.25			2.6			2.6			4.25			
Weight of Mill Assembly	kg	135		250			550			1300			1900			225			

Applications

Suitable for materials such as sugar, salt, dehydrated vegetables, dairy products, grains and seeds, tapioca, aluminum oxide, Betonies calcite, carbonate, melamine resins, talcum powder, zinc oxide, magnesium carbonate, etc medium and fine grinding.

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