

# XZM Ultrafine Mill(Grinding Mill)

## Application Of Grinding Mill:

XZM Ultrafine mill(Grinding Mill) is a new kind of machine for producing fineness and ultra-powder. It is mainly used for grinding the materials, whose hardness is middle and low, moisture below 6%, and its Mohs hardness should be below 9 grade and non-explosion and non-flammability, such as: calcite, chalk, limestone, dolomite, kaolin, bentonite, steatite, mica, magnetite, iolite, pyrophyllite, vermiculite, meerschaum, attapulgite, diatomite, barite, gypsum, alunite, graphite, fluorite, phosphate ore, potassium ore pumice, etc. The size of the finished production can be adjusted between 325-2500 mesh.



Working

## Principle

The main bearing and each dial are driven by

electromotor of main machine through reducer, and numbers of roller, which are rolling in the ring, are driven by dial through plunger. After crushed by hammer crusher, the big materials become small sizes ones and they are sent to storage bin by elevator. The electromagnetic vibrating feeder will send them to the middle of first dial evenly. The materials will be driven to the edge of dial by centrifugal force, and fall down into the ring and crushed, and then grinded by roller. The materials will fall down into the second and third ring, crushed and grinded. The high pressure-centrifugal blower will inhale air from the outside and blow the materials, which are grinded in the third ring, to powder classifier. The rotating turbo in the powder concentrator will make the coarse materials return to the mill and reground, while the fineness will mix with the air and go into the cyclone and be discharged the discharge bin, which is at the bottom of it. The air, which mixed with very little fineness, will be purified by impulse duster and discharged by blower and muffler.

### **Composition and Structure:**

The standard configuration of XZM ultrafine mill consists of main unit, powder classifier, double cyclone collectors, pulsed filter, blower, motor, pipes and muffler. The optional accessories include jaw crusher, hammer crusher, elevator, feeder, and control cabinet.

### Ultrafine mill Features

1. High capacity and low consumption
2. Easy fineness adjustment and high fineness
3. Reliable Security
4. Clean, environmental protection

<b>Tab 1:</b>			
item	XZM215	XZM221	XZM227
Number of roller(piece)	15	21	27
Ring diameter(mm)	Φ600	Φ 800	Φ1000
Number of ring (piece)	2	2	2

main equipment rotate speed (r/min)	235	235	235
Max. inlet size (mm)	<10	<10	<10
Final size (mesh)	325–2500	325-2500	325-2500
Capacity (kg/h)	350-2500	600–4000	900–6000
Overall size (m)	10×2×5.5	12.4×2.5×5.8	14.5×3.8×6.3
Note: If there is any change of above specification, it is all according to the booklet with machine.			

**Tab2:**

Basic data	Item	Unit	specification		
			XZM215	XZM221	XZM227
motor of main machine	Model	-	Y250-4	Y250-4	Y250-4
	Power	kw	37	55	90
classify	Model	-	Y180M-4	Y180M-4	Y180M-4

modulation motor					
Motor of elevator	Model	-	Y100L-4	Y100L-4	Y100L-4
	Power	kw	3	3	3
Motor of blower	Model	-	Y225M-2	Y225M-2	Y225M-2
	Power	kw	30	45	75
Hammer crusher	Model	-	250-400	250-400	250-400
	Power	kw	5.5	5.5	5.5
Electromagnetism Vibrating feeder	Model	-	GZ1F	GZ1F	GZ1F
	Power	kw	0.06	0.06	0.06
discharge valve	Model	-	ZJD-1: 40	ZJD-1: 40	ZJD-1: 40
	Power	kw	0.75	0.75	1.1
Pulsed duster	Model	-	BMC72-11	BMC72-11	BMC72-11
	Power	kw	3	3	3

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