



Reach new height with KEFID

Enhanced Super-fine Grinding Mill



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Features

T130X enhanced super-fine grinding mill is a newly designed grinding mill based on the former patent product---TGM super pressure trapezium mill according to market investigation and careful statistics and analysis of use and suggestions from our clients carried out by our experts, which has got unique features by carrying on and improving structures and performance of TGM.

1. Machine body and base are connected flexibly without rigid contact.
2. Machine base is of high intensive, ductile cast iron which is efficient in avoiding crack caused by vibration.
Ductile cast iron has anti-vibration function of cast iron, intensity of cast steel and good performance in impact resistance.
3. Reducer made in China has similar performance as Flender of Germany
Reducers are of high manufacturing technology from professional reducer manufactures, which will contribute a lot to stability of the whole machine.
4. Elastic sleeve pin sets couplings are adopted between machine body and reducer
Comparing with Nylon pin which is easy to break off, elastic sleeve pin sets will increase equipment stability greatly.
5. High-density blads are adopted on classifier.
This structure will be able to enhance powder fineness and productivity. We have found during practice that under same rotating speed, powder fineness can be enhanced by increase density of blades. In another words, while there is no difference in fineness, rotating speed of high-density blades will be lower comparing with those of low-density, which will reduce air resistance and raise productivity.
Impeller wheel has adopted new structure, which will be able to avoide the phenomenon of “powder missing” .
6. Frequency conversion control is adopted in the classifier.
Frequency conversion control will cost less engergy comparing with electromagnetic speed control and there will be better control acuracy, better flexibility and higher automation level.



7. Bypass powder collector is adopted

Bypass powder collector has dust isolation room which will force air with more dust down to the whirlwind through bypass and reduce opportunity for dust releasing from air outlet. Comparing with ordinary collector, bypass collector will cause less pressure loss, higher powder collection efficiency, which will be able to collect micro-powder which is impossible for ordinary collectors.

8. Equipments are distributed under same resistance program

This program will be able to enhance powder collection efficiency, reduce internal circulation and increase productivity by avoiding different strength of two powder collectors.

9. Two outlets of powder collector and that of dust collector are distributed within one line

This distribution will contribute a lot to collection of material, labor input saving and easy packings.

10. Set maintenance platform

Setting maintenance platform will make maintenance of mills more convenient and safer.

Application

This equipment is mainly used in material crushing processing in metallurgy, building material, chemical engineering, mining industries to grind Feldspar, calcite, talc, barite, fluorite, rare earth, marble, ceramics, bauxite, manganese ore, iron ore, copper ore, phosphate rock, iron oxide red, slag, slag, activated carbon, dolomite, granite, iron oxide yellow, bean cake, chemical fertilizer, compound fertilizer, fly ash, bituminous coal, coke, lignite, Ling U.S. sand, gold, red mud, clay, kaolin, coke, coal gangue, porcelain clay, kyanite, fluorspar, bentonite, rhyolite stone, muddy green rock, leaf wax rock, shale, purple rock, Diego rock, basalt, gypsum, graphite, thermal insulation material and other non-flammable and non-explosive mineral materials with moisture below 6%.



1. Parameters of machine body

Name	Unite	Specifications and technical parameters
Rollers number	Piece	4
Diameter of roller×height	mm	Φ410×210
Diameter of grinding ring×height	mm	Φ1300×210
Rotating speed of machine body	Rev/min	103
Max feeding size	mm	<30
Grain size of powder	mm	0.0740.038
Production capacity	T/H	4—13
Total weight of machine body	Tone	18

Note: 1. production capacity in the charts refers to that of calcite with mesh passing rate of 80%.
2. If there are any changes in specifications and layouts, please find them in enclosed use and Maintenance manual delivered together with equipments.

2. System power

Name	Item	Unite	Specifications, technical data
Main motor	Model	Model	Y280S-4
	Power	Power	75
	Rotational speed	Rotational speed	1480
Motor of classifier	Model	Model	Y160L-4
	Power	Power	15
	Rotational speed	Rotational speed	1460 (frequency control)
Motor of elevator	Model	Model	Y100L2-4
	Power	Power	3
	Rotational speed	Rotational speed	1430
Motor of draught fan	Model	Model	Y280M-4
	Power	Power	90
	Rotational speed	Rotational speed	1480
Motor of jaw crusher	Jaw crusher model	Jaw crusher model	PE 250×400
	Motor model	Motor model	Y180L-6
	Motor power	Motor power	15
	Motor rotational speed	Motor rotational speed	970
Vibration feeder	Model	Model	GZ3F
	power	power	200

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Equipments composition

T130X is mainly composed of machine body, reducer, classifier, maintenance platform, blower, bypass powder collector, electronic cabinet and other equipments of jaw crusher, elevator, vibration feeder, hopper, etc.

Working principle

Large bulk materials will be crushed by jaw crushers to required size and elevated by the elevator to hopper and fed into grinding maill evenly, quantitatively and continuously for grinding. Powder after grinding will go upwards with wind flow and those with qualified size will go into bypass powder collector with air flow through pipelines for classifying and collecting and will be discharged as readymade powder through powder valve. Airflow will go into the centrifugal fan from backwind tube on top of the bypass powder collector. The total airflow system is circulating under subpressure and sealed environment, which is able to guarantee environmental friendly working sites.



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