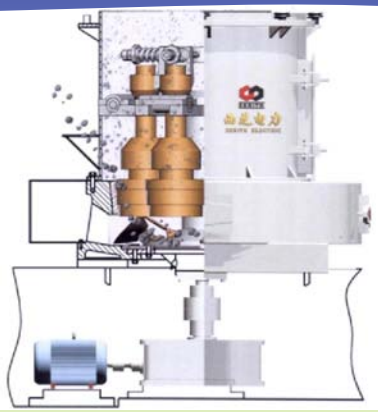
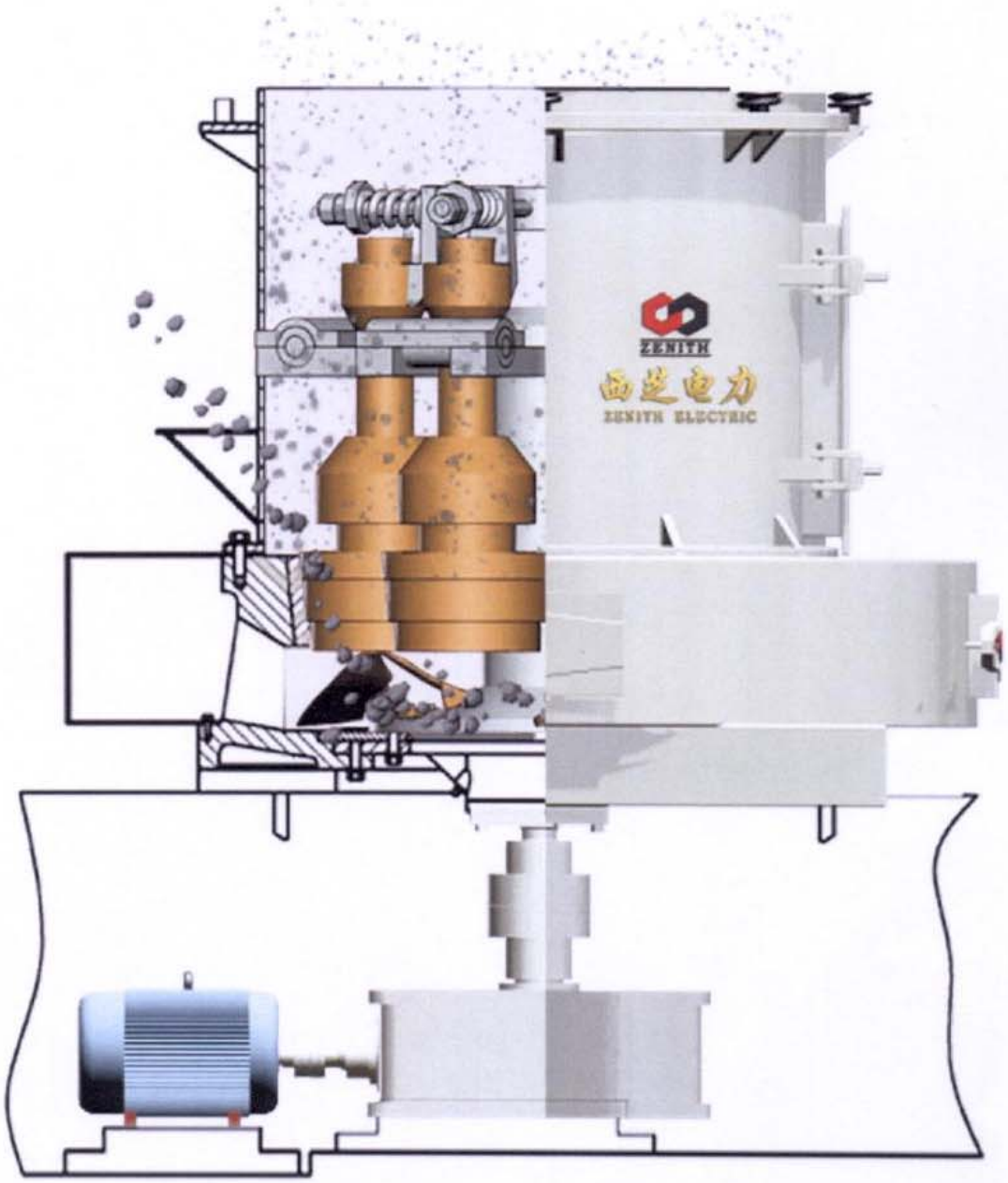


MILL PLANT

OLIVIER

MTM SERIAL MEDIUM SPEED TRAPEZIUM MILLS

TECHNICAL SPECIFICATIONS AND INSTRUCTIONS



BRIEF INTRODUCTION.

This kind of mill is designed by our engineers and technical workers based on years of industrial mill designing experience. It adopts numbers of national patents of mill such as trapezium working surface, flexible connection, roll linked pressure boost etc. it has totally overcome many defects of traditional mill such as application, capacity, fineness, energy consumption, service life etc. it will be the ideal substitute of traditional mill including Raymond mill, high pressure suspension mill, ball mill etc.

WORKING PRINCIPLE

The entire cycle of events in the machine requires these steps: the speed reducer promotes the revolving of central axis, there is a cinquefoils shelf connected on the top of the axis, and the roller device is equipped on the shelf and forms a swing pivot. The roller device does not only rotate around the centering axis but also revolves around the ring. The roller rotates itself

because of rubbing action. There are shovel blades equipped bottom of the cinquefoil. When the shovel blades rotate with rollers, they throw up the material and send them into the space between rollers and ring and then form a material bed, produced by the rotating of rollers, the material is crushed by the centrifugal force.

Then, the crushed material will be classified by the classifier under the function of the air blower, the selected power will be sent to the pipes, when the powder reaches the powder collector, it will fall under the function of gravity. Lastly, the final product will discharged by the valves under the powder collector. Oversize material will fall to the grinding chamber to regrind again until it can meet the size of the final powder.

APPLICATIONS.

This kind of mill can be widely used in metallurgy industry, electric power industry, chemical industry, building, steel industry, coal industry etc. it can grind kinds of mineral such as barite, calcium carbonate, soapstone, quartz, gypsum, limestone, dolomite, phosphate ore, glass, marble, granite, steatite etc.

SPECIFICATIONS.

Table 1

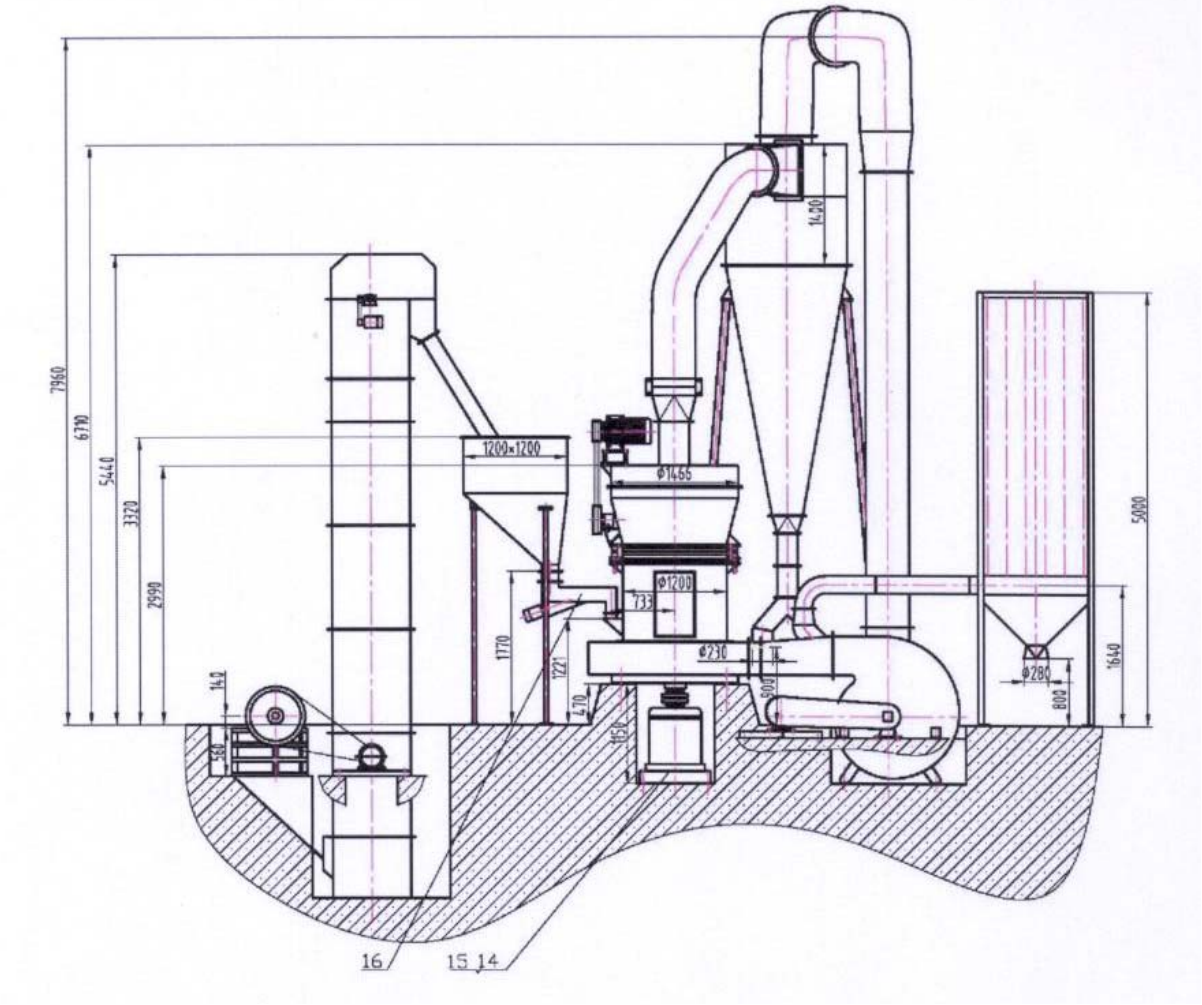
Ite	MTM100	MTM130	MTM160
Number of roller	4	5	6
Major diameter of roller ×Height (mm)	Φ320×200	Φ410×240	Φ440×270
Internal diameter of roller × Height (mm)	Φ980×200	Φ1280×240	Φ1600×270
Main engine spindle speed(r/min)	130	103	82
Maximum feeding grain size (mm)	<25	<30	<35
Grain size of finished product (mm)	1.6 - 0.038	1.6 - 0.038	1.6 - 0.038
Output (t/h)	3 - 8.8	6 - 13	13 - 22
Overall dimension (mm)	9910×5365×8310	7910×7000×9645	12550×5700×8355
Weight(t)	16	26.1	35

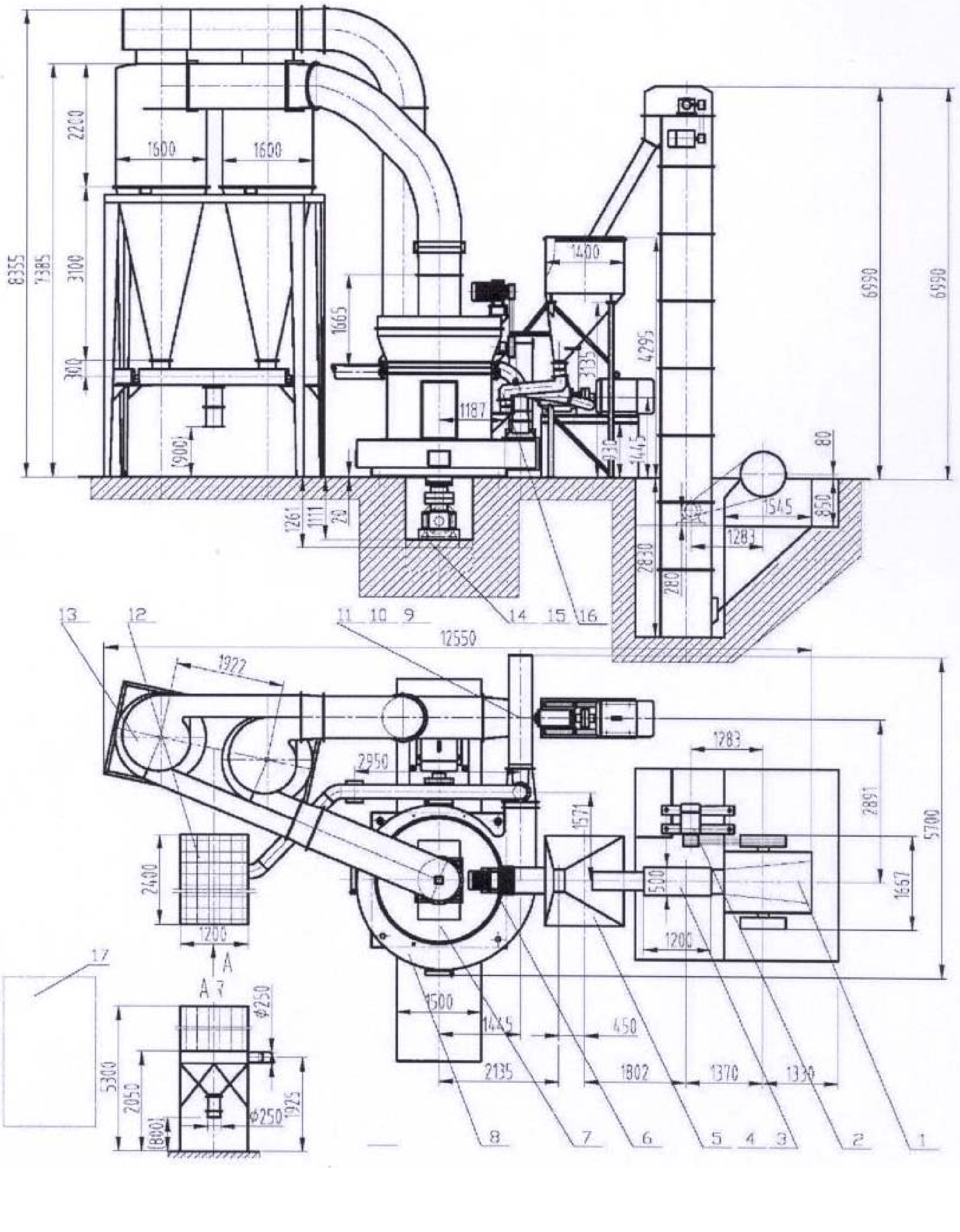
Table 2

Name	Item	Unit	Specification and technical data		
			MTM100	MTM130	MTM160
Motor of main engine	Model		Y225M-4	Y280S-4	Y135M1-4
	Power	kw	45	90	132
	Spindle speed	r/min	1480	1480	1480
Motor of adjustable varying speed motor	Model		GZT2-42-4	YCT200-4B	JZT2-52-4
	Power	kw	5.5	7.5	11
	Spindle speed	r/min	125~1250	125~1250	125~1250
Motor of elevator	Model		Y1000L-4	Y1000L2-4	Y112M-4
	Power	kw	3	3	4
	Spindle speed	r/min	1420	1420	1420
Motor of centrifugal induced draught fan	Model		Y225S-4	Y250M-4	Y112M-4
	Power	kw	37	75	110
	Spindle speed	r/min	1480	1480	1480
Motor of jaw crusher	Model	PE	200x350 250X400	250x400	257x750

			Y160M-6	Y180L-6	Y180L-6	Y200M-6
	Power	kw	7.5	15	15	22
	Spindle speed	r/min	970		970	970
Magnetic vibration-actuated feeder	Model		GZ1F		GZ2F	GZ3F
	Spindle speed	watt	60		150	200

INSTALLATION.





1600
1600
2200
3100
300
8355
7385
1900
1665
1187
1400
4295
3135
1030
1445
6990
6990
80
850
1545
1283
1261
1111
20
2830
280
14 15 16
13
12
11 10 9
12550
1922
2950
1283
2891
5700
1571
500
1657
2400
1200
1200
17
A
φ250
5300
2050
1925
φ250
1500
1445
450
2135
1802
1370
1330
8
7
6
5 4 3
2
1

STRUCTURE

This kind of milling plant usually consists of main mill, powder classifier, speed reducer, blower, jaw crusher, bucket elevator, vibrating feeder, storage bin, bag filter, pipe and fitting, cyclone powder collector, electric control cabinet, electric motor, etc which are as shown as in the min model.