



# Product

## Brief Introduction:

MTW European Trapezium Mill is the newest grinding equipment which enjoys many patented technology and reaches the international advanced level. It is the up-to-date grinding equipment designed by our devoted research team, basing on feedbacks and advice from 9518 mill customers and rich experience on mill research. The mill enjoys several patent technologies, such as bevel gear overall drive, inner automatic Thin-Oil lubricating system, arc air channel, etc.



## Highlights:

(1) Bevel gear integral transmission: The traditional mill needs an additional speed reducer and the main shaft is driven through a coupling. In addition, the alignment is hard to handle during installation, and noise will be generated and the efficiency is low. The MTV series European technology trapezium mill adopts the integral bevel gear integral driving, which makes the structure more compact, installation and adjustment more convenient and quicker, and the efficiency increased greatly.



(2) Internal thin oil lubrication system: The traditional mill is generally lubricated with grease. In that case, the lubrication resistance is large, and the temperature rises high and the service life is short. The MTV series European technology trapezium mill adopts the internal oil pump, it is not necessary to add an additional oil pump or lubrication station to lubricate the bearing of the main shaft and the bevel gear shaft.

(3) Arc air duct: The air duct of a traditional mill is of straight panel type. In such structure, resistance force may be generated when the air impacts the air duct panel. And the energy loss is large due to the crashing between airflow molecules, thus the air duct may be subject to jamming because of vortexes. The MTV series European technology trapezium mill adopts the curve surface air duct, and the inlet for tangential airflow is smooth, so the resistance is very small. The internal outlet direction is good for scattering the material and blocking is avoided.

(4) The curve-surface spading tool whose blade can be replaced. The blade of the traditional mill is easily worn. Its spading tool is integral, so the whole tool needs to be replaced when the blade is worn. In that case, the material is wasted and the shut down time for replacement is long, while the blade of MTV series European technology trapezium mill is made of alloy material with high wear resistance, it has a long service life. You only need to replace the blade part when replacement is required. In addition, if you use the traditional straight surface spading tool, the material will be piled on one layer after it is spaded, this may result in bad wear of the middle part of the mill roller and grinding ring, while the curve-surface spading tool can make the material move to the vertical surface, in this case, the upper, middle and lower parts of the mill roller and grinding ring all can be used for grinding, so the wear is uniform. At the same time, the effective working area is enlarged, thus the output is improved as well.

(5) Isolated cyclone power collector: An isolated structure is used between the internal cylinder and the mixed air and powder, so the powder classification efficiency and precision will be greatly improved.

(6) Air-inlet volute shell with no resistance (no vortex available at the small observation door): The internal door panel of the observation door of the air-inlet volute shell for the tradition mill is protuberant outward, and it is not on the same plane with the air-inlet volute shell, in this case, eddy-current effect may occur and the energy consumption of the system will be increased. As for the MTV series European technology trapezium mill, the internal door panel and the inner surface of the air-inlet shell is on the same curve surface. Therefore, eddy-current effect can be avoided.



(7) Exquisite appearance: The European technology trapezium mill adopts many advanced structures. Besides, its appearance is designed in beautiful arc shape, which makes the whole machine look pretty and smart.



## Working Principle:

First, raw material should be crushed by the jaw crusher to the size specified, and then the crushed stuff is elevated into a hopper from which the stuff is loaded, through the vibrating feeder, evenly and continuously into the grinding chamber for power-processing. After this, the ground stuff is carried by the air into the separator for screening. The fine powder are blow into the cyclone collector and are poured out through the output-powder valve as the final products and the rough stuff after the screening will be recycled back into the grinding chamber for regrinding. The set's airflow system is closely sealed up and circulated under condition of negative pressure.

## Technical Data:

Table 1

Model	MTW110	MTW138	MTW175
Specification			



Name			
Quantity of roller (PCS)	4	4	5
Inner diameter of ring (mm)	Φ1100	Φ1380	Φ1750
Rotary speed of main frame(r/min)	120	96	75
Max. Feeding size(mm)	< 30	< 35	< 40
Output size (mm)	1.6~0.045 The fineness is 0.038	1.6~0.045 The fineness is 0.038	1.6~0.045 The fineness is 0.038
capacity (t/h)	3.5~10	6.5~15	11~25
Overall dimension (mm)	8910×6950×9010	9860×8340×10227	13500×11500×9500
Total weight (t)	18	28.5	46

Table 2

Name	Item	Unit	Specifications & Technical Data		
			MTW110	MTW138	MTW175
Motor for main frame	Model		Y280M-6	Y315M1-6	Y355M1-6
	Power	kW	55	110	160
	Rev.	rpm	980	990	990



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Motor for separator	Model		YCT200-4A(YCT200-4B)	YCT250-4A(YCT225-4A)	YCT225-4A(YCT250-4A)
	Power	kW	5.5(7.5)	18.5	11(18.5)
	Rev	rpm	125~1250	125~1250	125~1250
Motor for Elevator	Model		TH250	TH250	TH315
	Motor model		Y100L2-4	Y100L2-4	Y112M-4
	Power	kW	3	3	4
	Rev	rpm	1420	1420	1420
Motor for Blower	Model		Y250M-4	Y280M-4	Y315L1-4
	Power	kW	55	90	160
	REV	rpm	1480	1480	1480
Motor for Jaw Crusher	Model	PE	250×400	250×400	250×750
			Y180L-6	Y180L-6	Y200L2-6
	Power	KW	15	15	22



	REV	rp m	970	970	970
Electro-Magnetic	Model		GZ2F	GZ3F	GZ4F
Vibrating Feeder	Power	W	150	200	450

## Contact Us:

Thank you for your interest in Liming Heavy Industry (Shanghai). Please feel free to use any of the methods below to get in touch with us.

Office Tel: 0086-21-33901608

Fax: 0086-21-58377628

Email: [sales@shcrusher.com](mailto:sales@shcrusher.com)

MSN Online: [shcrusher@hotmail.com](mailto:shcrusher@hotmail.com)

Address: No.201-34, Huaxia 3rd Road, Pudong New Area, Shanghai, China.

Postcode: 201200

For more detailed information, please click here:

<http://www.shanghai-crusher.com/>