



Jaw Crusher

Jaw Crusher is used in mining, metallurgy, construction, highway, railway, irrigation and chemical industries, and our jaw crushers have the features of high reduction ratio, even powder sizes, low power consumption and easy maintenance. The crushing strength of the jaw crusher materials is up to 350 Mpa.



How Jaw Crushers works?

[Jaw Crusher](#) is ideally suitable for primary and secondary crushing. It is carefully designed to provide superior quality and performance with low power consumption and easy maintenance.

Illustration of How Jaw Crushers Crushes?

[Jaw crusher](#) reduces large size rocks or ore by compressing, a fixed jaw, mounted in a “V” alignment is the stationary breaking surface, while the moveable jaw plate exerts force on the rock by compressing it against the fixed jaw plate. The space at bottom of the “V”, aligned jaw plate, is the output size gap, or the maximum size of the crushed product.



Due to the features of simple structure, reliable performance, convenient maintenance and safe use, our jaw crushers of various models are widely used in the crushing operation in metallurgy, mining, building materials, chemical industries and cement enterprises.

Purpose of the Jaw Crushers

This jaw crusher is characterized with its simple structure and reliable work and convenient maintenance, used to crush primarily and intermediately all ores or rocks with a compressive strength under 250Mpa in large, medium-size mine, stone quarry and building material department.

Operating principle and structural features Of Jaw Crushers

The crusher mainly consists of:

- 1) Frame
- 2) fixed jaw plate
- 3) left and right protecting boards
- 4) movable jaw plate
- 5) movable jaw
- 6) eccentric shaft
- 7) toggle plate
- 8) toggle seat
- 9) components and parts such as oil pressure lifter (figure one)

The motor drives eccentric shaft via a delta belt fixed in a grooved pulley, which can make movable jaw move repeatedly so as to crush materials in crushing cavity.

Fixed jaw plate of frame front wall is fastened depending on left and right protecting boards and holding down bolts, while movable jaw plate is pressed tightly on movable jaw depending on battens. When the jaw plates are abraded (usually under side of the jaw



plate is abraded severely), upside down and continue to use them.

Toggle plate can not only bear the weight of movable jaw, but also protect other parts of the machine from hurting. When un-broken foreign materials come into crushing cavity which results in heavy load increase of toggle plate, the toggle plate breaks down itself to cut off the heavy load so as to protect other parts of the jaw crushers.

Toggle seat is fastened on ear seat of the jaw crusher's two sides by draw bolts; depend on hydraulic pressure lifter (lifting bolts) to lift out toggle seat, change pad thickness, and i.e. be able to adjust the width of discharge outlet.

Technical Data Of Jaw Crusher:

Models	Size of feed opening (mm)	Max feed size (mm)	Adjustable range of discharge opening (mm)	capacity (m ³ /h)	Power (kw)	Weight (t)
PE-150x250	150x250	125	10-40	0.6-3	5.5	0.81
PE-250x400	250x400	210	20-60	3-13	15	2.8
PE-400x600	400x600	340	40-100	10-34	37	6.5
PE-500x750	500x750	425	50-100	20-52	55	10.3
PE-600x900	600x900	500	65-160	30-75	75	15.5
PE-750x1060	750x1060	630	80-140	72-130	90	28
PE-900x1200	900x1200	750	95-165	87-164	160	50
PE-1000x1200	1000x1200	850	195-265	197-214	160	51
PE-1200x1500	1200x1500	1020	150-300	400-800	200	100.9
PEX-150x750	150x750	120	18-48	5-16	15	3.5
PEX-250x750	250x750	210	25-60	8-22	30	4.9



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PEX-250*1000	250x1000	210	25-60	10-32	37	6.5
PEX-250x1200	250x1200	210	25-60	13-38	45	7.7
PEX-300x1300	300x1300	250	20-90	10-65	75	11

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