

Stone Crusher Series

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Stone Crusher Series

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NO:1 Jaw crusher

One of the most popular stone-crushing equipments in the world, Jaw Crusher is ideally suitable for primary and secondary crushing. The highest anti-pressure strength of crushed material is 320Mpa. Our design and production are of high position both at home and abroad. One of our main products, Jaw Crusher is designed by our engineers with large reduction ratio, even granularity, simple structure, reliable operation, convenient maintenance, low cost, It is widely used in mining, metallurgy, construction, highway, railroad, and chemistry industries.



Jaw Crusher Operating principle:

This jaw crusher uses motor as its power. Through the motor's wheels, the eccentric shaft is driven by the triangle belt and slot wheel to make the movable jaw plate move by a regulated track. Therefore, the materials in the crushing cavity composed of fixed jaw plate, movable jaw plate and side-lee board can be crushed and discharged through the discharging opening.

Jaw Crusher Specification:

Model	Feed inlet size(mm)	Max inlet size(mm)	Capacity (t/h)	Electric power(kw)	Overall size LxWxH(mm)	Weight (t)
PE150×250	150×250	125	1-5	5.5	875×758×850	0.81
PE250×400	400×250	210	5-20	15	1450×1315×1296	2.8

PE400×600	600×400	340	16-65	30	1565×1732×1586	6.5
PE500×750	750×500	425	45-100	55	1890×1916×1870	10.1
PE600×900	900×600	500	50-120	55-75	2305×1840×2298	15.5
PE750×1060	1060×750	630	52-180	110	2450×2472×2840	28
PE900×1200	900×1200	750	140-260	110	3200x3050x2950	54.5
PE1000×1200	1000×1200	850	315-342	110	3335x3182x3025	57
PE1200×1500	1200×1500	1020	400-800	160	4200x3750x3820	100.9
PEX250×1000	1000×250	210	16-52	30-37	1530x1992x1380	6.5
PEX250×1200	1200×250	210	20-60	37	1900x2192x1430	7.7

★ Note: This specification is just reference, any changes are subject to the products.

NO:2 Impact Crusher

Dealing with the material with the side length 500mm, not more than 350Mpa anti-pressure strength, Impact Crusher can be widely used in the first and secondary crushing.

During the process of operating, the rotor in high speed will be brought along by the electric motor. The material will be stricken by the Flat Hammer to be crushed, and then be countered to the liner for the second crushing, then be discharged through the discharge opening.

Impact Crusher features many advantages: simple structure, Non-key Connection, high chromium Flat Hammer, special impact plate, simplified crushing process, and high-efficiency and energy conservation, Cubic Shape for the final products. The discharge opening can be adjusted. It is widely used in water and electricity, expressway, sand and stone, crushing fields. It is proved that Impact Crusher is better than Cone Crusher and Hammer Crusher.



Impact Crusher Operating principle:

This impact crushes materials with impact force. When the materials enter the blow bar area, they are crushed due to the high-speed impact of the blow bar and are thrown to the impact plates on the rotor for secondary crush. Then the materials will be shot back to the blow bar again for the third crush. This process repeats until the materials are crushed to the required size and discharged from the lower part of the machine. The size and shape of the finished powder can be changed by adjusting the gap between the impact rack and rotor support. The machine employs self-weight security device in its back frame. When other objects enter the impact cavity, they will be forced out of the machine by the impact rack in the front and back of the machine.

Impact Crusher Specification:

Type Spec.	Feeder Opening(mm)	Feeding Size (mm)	Crushing Capacity (t/h)	Motor Power (KW)	Weight (t)
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PF-1010	Φ1000×1050	400×1080	350	50-80	55-75	12.6
PF-1210	Φ1250×1050	400×1080	350	70-120	110-132	14
PF-1214	Φ1250×1400	400×1430	350	80-160	132-160	18.58
PF-1315	Φ1300×1500	860×1520	500	160-260	180-260	24.2

★ Note: This specification is just reference, any changes are subject to the products.

NO:3 Cone Crusher

Cone crusher is widely applied in metallurgical, construction, road building, chemical and phosphatic industry. Cone crusher is suitable for hard and mid-hard rocks and ores, such as iron ores, copper ores, limestone, quartz, granite, gritstone, etc. Type of the crushing cavity is decided by the application of the ores. Standard type is for PYZ (secondary crush); middle type is for PYD (tertiary crush); short-head type is for primary and secondary crush.



Cone Crusher Features

1. high productivity; high quality
2. less machine stop time
3. easy maintenance and low cost
4. unique crushing ability in primary, secondary and tertiary crushing.

Cone Crusher Operating principle:

Cone crusher consist of frame, transmission device, hollow eccentric shaft, bowl-shaped bearing, crushing cone, springs and hydraulic pressure station for adjusting discharge opening. During operation, the motor drives the eccentric shaft shell to turn around through a horizontal axle and a pair of bevel gear. The axle of crushing cone swings with the force of eccentric shaft shell so that the surface of the crushing wall is close to the roll mortar wall from time to time. In this way, the ores and rocks will be pressed and crooked and crushed.

Cone Crusher Specification:

Model	weight (T)	power	diameter of cone crusher at big end(mm)	width of feed opening (mm)	max feeding size	adjustment range of discharge opening	capacity (t/h)
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PYB				Φ600	75	65	12-25	20-40
PYD	600	5	30	Φ600	40	35	2-13	12-23
PYB				Φ900	135	115	15-50	60-105
PYZ	900	11.2	55	Φ900	70	60	5-20	50-90
PYD				Φ900	50	50	3-13	15-50
PYB				Φ1200	170	145	20-50	110-168
PYZ	1200	35	130	Φ1200	115	100	8-25	42-135
PYD				Φ1200	60	50	3-15	18-105
PYB				Φ1700	250	215	10-30	280-480
PYZ	1750	50.2	160	Φ1700	215	185	10-30	115-320
PYD				Φ1700	100	85	5-15	75-230
PYB				Φ2200	350	300	30-60	590-1000
PYZ	2200	80	260	Φ2200	275	230	10-30	200-580
PYD			280	Φ2200	130	100	5-15	125-350

★ Note: This specification is just reference, any changes are subject to the products.

NO:4 HPC Cone Crushe

HPC series cone crusher with high-efficiency and hydraulic pressure was widely used in mining, concrete factory, sandstone making, etc. The machinery's pressure resistance strength is under 350Mpa. And they are widely suitable for primary crushing of many kinds of mining and rock such as many kinds of ores, concrete, fireproof material, bauxite, quartzite, corundum, perlite, ironstone, basalt, etc.



HPC Cone Crusher Operating principle:

Cone crusher consist of frame, transmission device, hollow eccentric shaft, bowl-shaped bearing, crushing cone, springs and hydraulic pressure station for adjusting discharge opening.

During operation, the motor drives the eccentric shaft shell to turn around through a horizontal axle and a pair of bevel gear. The axle of crushing cone swings with the force of eccentric shaft shell so that the surface of the crushing wall is close to the roll mortar wall from time to time. In this way, the ores and rocks will be pressed and crooked and crushed.

Cone Crusher Specification:

Model	Cavity (coarse/fine)	Discharge setting min.(mm)	Feed opening(mm)	Capacity(t/h)	Power(kw)	Werght(t)	movable cone diameter (mm)
HPC-	C	13	150	120-240	160	13	950

160	F	6	76	55-180			
HPC-220	C	13	225	150-430	220	18	1160
	F	6	86	90-260			
HPC-315	C	13	290	190-610	315	26	1400
	F	6	100	108-320			
HPC-400	C	13	320	230-700	400	33	1500

★ Note: This specification is just reference, any changes are subject to the products.

Why do you choose our jaw crusher ?

Moheman Jaw Crusher:
Automatic, High-efficient;
Low Cost, High Profit;
High Standard, Qualified Products.

The series of our Jaw crusher include 11 models which can meet most capacity requirements in primary and secondary crushing, at the same time, with low power consumption and easy maintenance. Every feature of these machines has been carefully designed to provide superior quality and performance. The high capacity of this pulverizer machine can be ensured by the large feed opening and force-feeding action from the inward and downward eccentric movement of the swing jaw.

The jaw crusher has a smaller discharge setting, allowing for a higher degree of flexibility with relative equipment. The machine is easy to install and debug. They are widely applied in areas of mining, metallurgical, construction, smelting, hydraulic and chemical industries, etc and widely used for crushing various materials like stone, granite, trap rock, coke, coal, manganese ore, iron ore, emery, fused aluminum, oxide, fused calcium carbide, lime stone, quartzite, alloys, etc. These crushers are recommended by leading consultants in this field and are used by hundreds of customers all over the world.

Jaw Crusher Features:

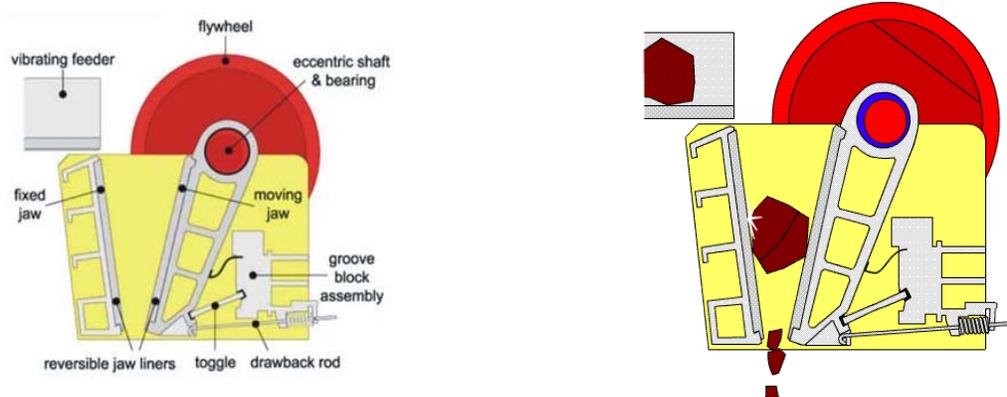
- 1) High capacity
- 2) High reliability
- 3) Adjustable for easy wear parts
- 4) over-loading protection
- 5) simple structure and easy to access and operate
- 6) Long service time
- 7) Easy replacement of wear and spare parts
- 🧐 Less cost and easy installation
- 9) Wide range of choices

The jaw crusher uses motor as its power. Through the motor's wheels, the eccentric shaft is driven by the triangle belt and slot wheel to make the movable jaw plate move by a regulated track. Therefore, the materials in the crushing cavity composed of fixed jaw plate, movable jaw plate and side-lee board can be crushed and discharged through the discharging opening. .

How our jaw crusher works?

Moheman Jaw Crusher:
Wider Application Range ;
More Qualified Products ;
Better Collocation .

Jaw crusher can be used with the ore dressing equipment or used independently. Jaw crusher can be used to produce the aggregate for subgrade, railway ballast and construction sand and stone. The jaw crusher is divided into the coarse jaw crusher and the fine jaw crusher, i.e. PE series and PEX series.



Jaw Crusher Working principle:

The motor drives the belt pulley and the belt pulley drives the eccentric shaft to rotate, and make the moving jar approach and leave the fixed jaw periodically, to crush, rub and grind the materials repeatedly, thus to make the material slower and slower and gradually fall down and finally discharge from the discharge opening.

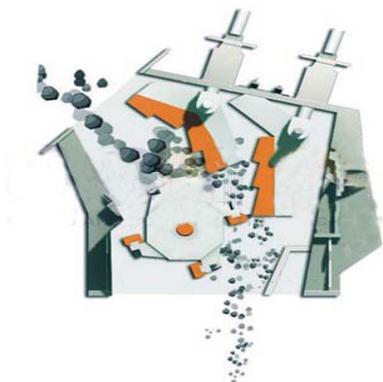
Jaw Crusher Features:

high reduction ratio, uniform grain size, simple structure, reliable operation, simple convenience and low operation cost.

How our impact crusher works?

Moheman Impact Crusher :
 Wider Application Range ;
 More Qualified Products ;
 Better Collocation .

The impact crusher is a new product designed by our company by absorbing advanced technologies from home and abroad. The equipment is applicable for various coarse, medium and fine materials (such as granite, limestone and concrete, etc.) with grain size not exceeding 500mm and compression strength not higher than 360MPa. It is characterized by great reduction ratio, high reduction efficiency and convenient maintenance, etc. The product is in the shape of a cube. It is the ideal machining equipment for aggregate for high-class highway pavement and construction of hydropower facilities. With excellent capacity and performance, it is widely used in machining of reduced stone for highway construction, hydraulic engineering and architecture, etc.



Impact Crusher Performance features:

It is with unique structure, keyless connection, high-chromium plating hammer and special impact liner plate; it is capable of highly efficient hard rock crushing while saving energy; the product is in the shape of a cube, the discharge grain size is adjustable to simplify the crushing circuit.

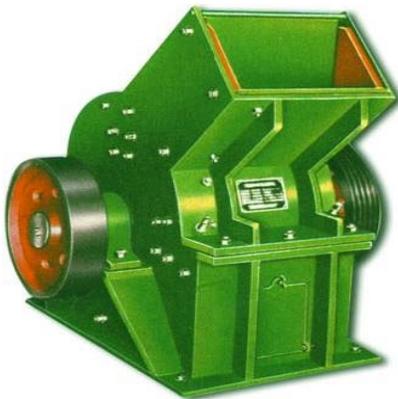
Impact Crusher Working principle:

It uses plate hammer on the rapidly rotating rotor to generate high-speed impact to crush the materials in the crushing cavity, and casts the crushed materials along tangential direction to impact plate at the other end of the crushing cavity. The materials are crushed again, and then, they return to the plate hammer to undergo the process above repeatedly. The materials are bumping with each other when being sent between the plate hammer and the impact plate. The materials become cracked, loose and then comminuted by knocking by the plate hammer, impact with impact plate and bump between materials. The materials with grain size smaller than the gap between impact plate and plate hammer will be discharged. If you are interested in the impact crusher by us, please call us or visit the website of the company for relevant prices and detailed technical parameters and specifications etc. We will provide quality service to you!

How our hammer crusher works?

Moheman Hammer Crusher :
Automatic, High-efficient;
Low Cost, High Profit;
High Standard, Qualified Products.

It manufactured by our company is characterized by simple structure, great reduction ratio, high productivity while saving energy, stable operation, low noise and small blast capacity, etc. The equipment crusher is applicable for both dry and wet crushing. The hammer is widely used for medium or fine crushing for medium hard and brittle materials by departments of mine, cement, coal, building material, metallurgy, chemical industry, road construction, gas chemical industry and thermal power generation, etc. Coal gangue, coke, slag, limestone, phosphate rock, salt, whiting, gypsum stains, alum, brick and tile, etc. can be crushed by this equipment. The compression strength of the materials shall not exceed 100MPa, while the moisture content shall be lower than 15%. The equipment can be also used for crushing chips and paper with fiber structure and strong elasticity and ductility, or recycling asbestos fiber by crushing wastes of asbestos cement, etc. Gap between the gratings are adjustable to change grain size of the discharge, so as to meet different requirements of the customers.



Hammer crusher features :

with large feed inlet and high crushing cavity, the equipment is applicable for hard and large materials. There is little rock powder in the products. Since the materials are suspended, the power consumption for crushing is low. The new kind of hammer can provide great impact. The hammer axle is adjustable, and the hammer has a long service life. Gap between the gratings are adjustable to change grain size of the discharge, so as to meet different requirements of the customers. The chassis is able to turn for convenient

maintenance. The square shank bolt is resistant to impact and wear. With compact structure, the equipment is with high rigidity. It is convenient for transportation and installation due to split structure of the equipment. Combining the functions of impact, reaction and blow in one, with little component wearing and prominent comprehensive benefits, the equipment is widely used for artificial sand making. Hammer crusher working principle :

The hammer crusher manufactured by Luoyang Moheman Heavy-duty Machinery Co., Ltd. is a kind of rotor impact crusher containing ring hammer. The hammer crusher main component is the rotor containing hammer (also called hammerhead). The rotor is composed of main shaft, disk, pin and hammer. It is driven by motor to rotate rapidly in the crushing cavity. The materials are delivered through upper feed inlet into the equipment, and crushed by knocking, impact, shearing and grinding by the quickly moving hammer. The crushed materials with grain size smaller than the mesh opening will be discharged through screen plate on the lower part of the rotor, while those with grain size larger than the mesh are left on the screen plate to undergo impact and grinding by the hammer, and finally discharged through the screen plate. If you are interested in the hammer crusher by us, please call us or visit the website of the company for relevant prices and detailed technical parameters and specifications etc. We will serve you with all our heart!

How our HPC hydraulic cone crusher works?

Application HPC series cone crusher with high-efficiency and hydraulic pressure was widely used in mining, concrete factory, sandstone making, etc. The machinery's pressure resistance strength is under 350Mpa. And they are widely suitable for primary crushing of many kinds of mining and rock such as many kinds of ores, concrete, fireproof material, bauxite, quartzite, corundum, perlite, ironstone, basalt, etc.



Features and Benefits:

1. The new series of HPC cone crusher with high-efficiency and hydraulic pressure equipment is adopted three protecting equipment such as protecting oilcan, locking oilcan and hydraulic driving oilcan. They not only protect the machinery, but could deal with troubles without disassembly the parts.
2. The equipment also can adjust the size of final material. The machinery with high dependability operated very expediently.
3. The crushing chamber specially designed according to particles sink principal and its matching speed can sharply increase the crushing ratio, output and content percentage of cubical product in final crushed material.
4. In the special circumstances such as irons was feed into the crushing chamber together with the materials and there is a jam in the crushing chamber, the hydraulic equipment could open the cover automatically, then the products could output successfully. It greatly reduced the trouble of stopping the machine to output the products artificially. Which makes the maintenance more convenient and with low cost.

5.It is adjusted by hydraulic device and lubricated by the dilute oil. And with locking sleeve assembly, it can overcome the trouble of oil and water being mixed together.

6.The concave and mantle made by high manganese steel. Owing to the change of the concave's style and the protect of the crushed products, The abrasion of the machine is reduced greatly and can last long compared with the old cone crusher.

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