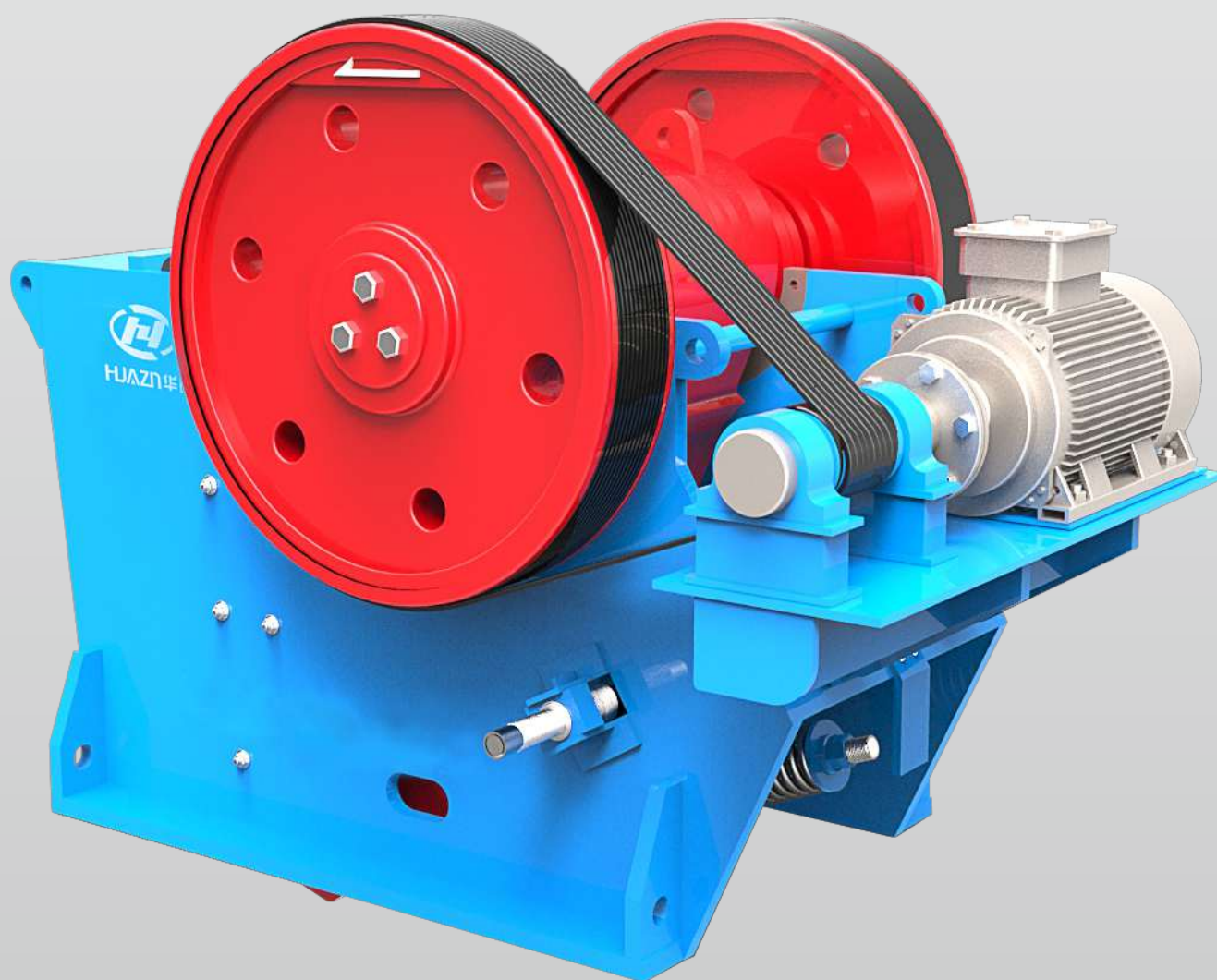
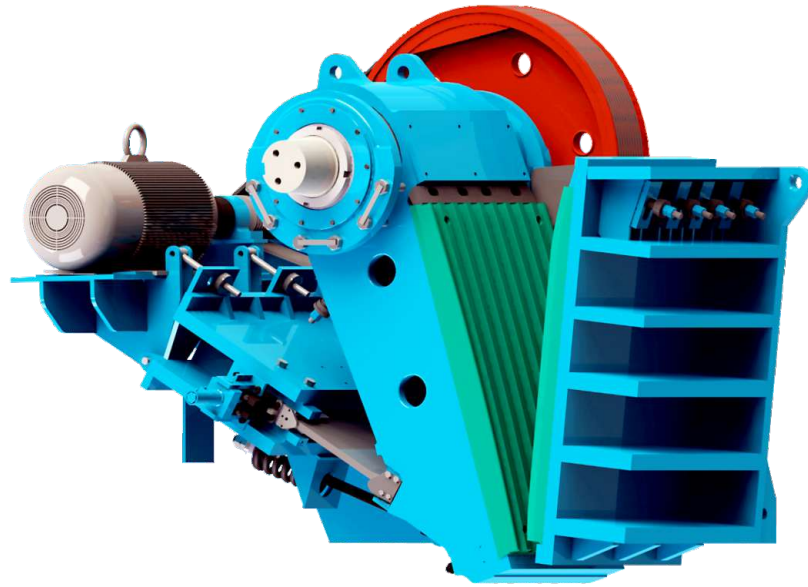


# JC SERIES

Jaw Crusher





## DESCRIPTION

The JC series Jaw Crusher is a new type of jaw crusher with optimized and developed design on structure, material selection, manufacture process and assembly, which is based on absorbing the international advanced technology and applying company's decades design concept and technology of jaw crusher. With the features of smart structure and excellent performance, the machine is suitable for crushing all kinds of hard and abrasive rock and mineral ore. In order to meet the needs of different working conditions from the customers, the machine can apply modular bolt connecting frame without welding.

## FEATURES

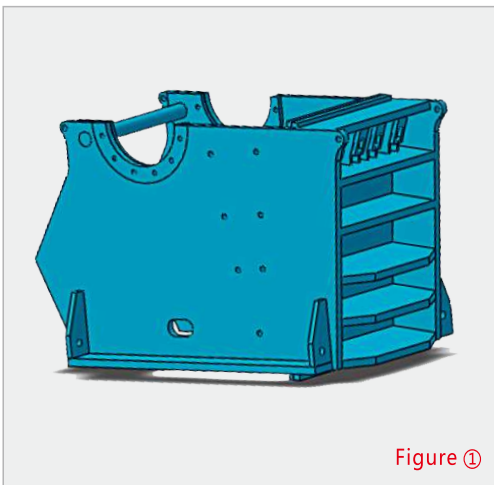


Figure ①

### STRONG STRUCTURE

There are two types of the frame for the JC Jaw Crusher: welded frame and modular bolt connecting frame. Generally it will apply the welded frame for the small and medium-sized jaw crusher and the modular bolt connecting frame for the large-sized jaw crusher. The welding method for the welded frame greatly reduces the stress concentration to ensure the equal strength of the frame in different directions. It has the features of impact resistance, even force and low failure rate, etc. The modular bolt connecting frame has the features of fatigue strength and high reliability. The non-welded method for the modular bolt connecting frame is very convenient for transportation and installation, especially suitable for the underground mine, high altitude mine and other places which are narrow and transportation difficulties. (as shown in figure 1)

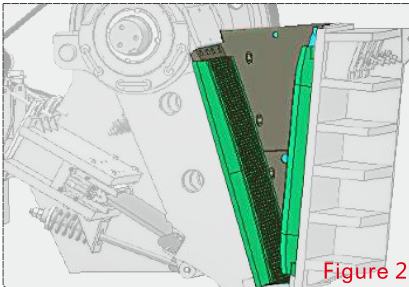


Figure 2

### OPTIMAL DESIGN OF CRUSHING CHAMBER

It applies the V-type symmetrical design of the crushing chamber, so the actual width of the feeding opening is consistent with its nominal width. Also with the deep crushing chamber, tight nip angle and long stroke, the machine has lower energy consumption and better processing capacity and crushing performance.(as shown in figure 2)

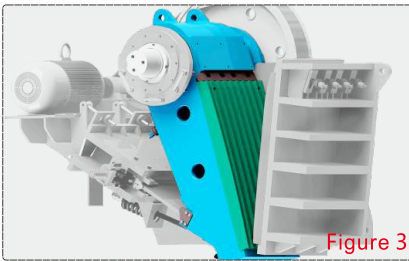


Figure 3

### SWING JAW ASSEMBLY

The swing jaw assembly consists of the forged eccentric shaft, high-duty rolling bearings and the swing jaw optimized by FEM analysis, which ensure the impact resistance and stability of swing jaw assembly. By using the labyrinth seal and centralized lubrication system, there ensure no pollution to the bearing grease and convenient lubrication, also ensure long operating time and good stability.(as shown in figure 3)

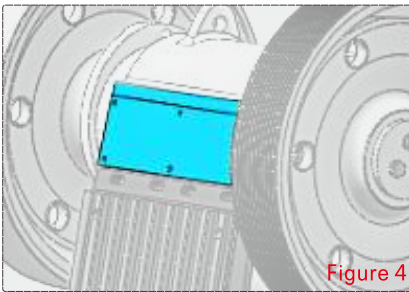


Figure 4

### PROTECTOR PLATE OF SWING JAW

The protector plate installed on the swing jaw reduces the impact force from materials, which effectively protect the swing jaw and bearings inside.(as shown in figure 4)

### QUICK AND CONVENIENT CSS ADJUSTMENT

The JC Series Jaw Crusher applies mechanical or hydraulic discharge adjusting device for CSS. Compared with gasket adjustment(refer to mechanical device), its double wedge adjustment(refer to hydraulic device) is simple, safe and fast. It can also reduce the downtime.

(as shown in figure 5)

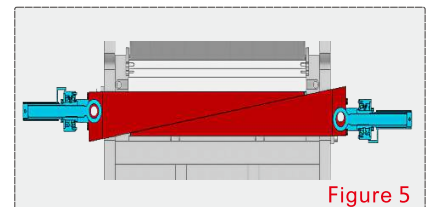


Figure 5

### BEARING

The bearing design ensures the big loading capacity, long service life and reliable operating(as shown in figure 6)

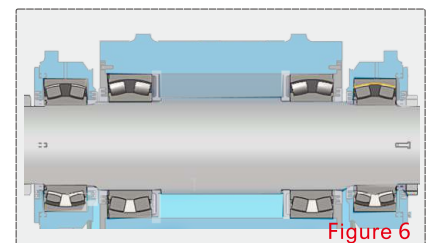


Figure 6

### ROD SPRING OR HYDRAULIC CYLINDER

Either the hydraulic cylinder or rod spring will be used for swing jaw tension device. The rod spring applies advanced friction reducing devices. It can make easy and quick adjustment.(as shown in figure 7)

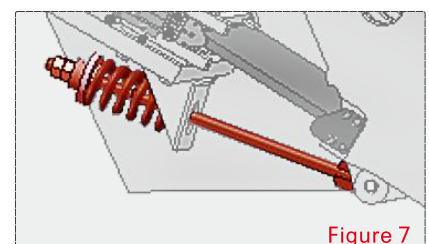
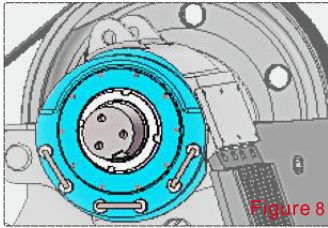
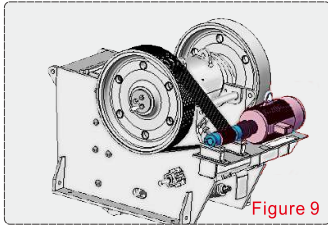


Figure 7



### INTEGRAL BEARING HOUSE

The integral casting bearing structure ensures the perfect match with the main frame, which avoids the unnecessary radial load to the bearings during the fastening process of integral bearing house. It makes bearing running more smoothly. (as shown in figure 8)



### INTEGRATED MOTOR DESIGN

The integrated design of the motor base together with the main frame not only will save the installation space of jaw crusher, but also reduce the length of the V-belt. As a result of synchronized motion of the frame, motor base and motor, adjustable motor base realize V-belt tension adjustment, increase the life time of the V-belt. (as shown in figure 9)

### RUBBER DAMPING DEVICE

To use the special rubber damping device effectively absorbs the equipment vibration. Meanwhile it allows crusher vertical and longitudinal displacement, which reduces the impact to the foundation base.

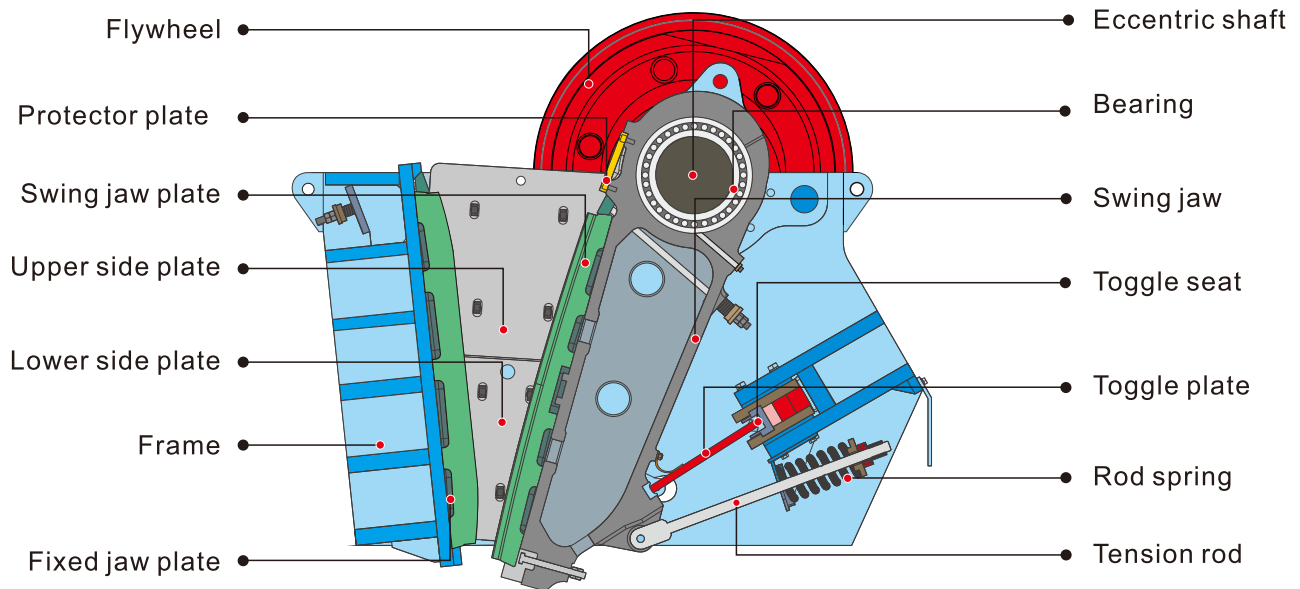
## TECHNICAL SPECIFICATIONS

Model	Feed Opening (mm)	Max. Feed Size (mm)	CSS (mm) / Throughput Capacity (t/h)															Power (kw)
			40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	
JC80	800×510	430	50 70	55 85	80 100	90 125	110 145	120 170	135 185	170 240	200 280	240 330						75
JC90	910×630	530		90 130	105 140	115 165	135 185	150 200	170 240	200 270	230 300	275 345						90(110)
JC96	930×580	480			105 135	125 155	140 180	160 200	175 225	220 280	265 335	310 390						90
JC100	1000×760	640				120 170	140 195	155 215	175 255	210 300	250 350	300 420	340 480					110(132)
JC106	1060×700	590			150 185	165 215	190 235	205 265	255 325	305 385	355 450	395 500						110
JC110	1100×850	720				180 240	200 265	220 295	245 320	300 385	350 455	400 520	460 590					132
JC125	1250×950	810							270 360	325 430	385 505	445 580	500 650	560 725	620 800			160
JC140	1400×1070	910								360 470	425 555	490 640	555 725	625 815	690 900	725 985		200
JC160	1600×1200	1020									490 640	560 730	635 825	710 920	780 1010	855 1105	930 1200	250
JC210	2100×1600	1360										800 880	900 1005	1000 1125	1100 1225	1200 1375	1300 1500	450

- Remarks:**
1. The capacity listed from the table is the corresponding parameters to crush the rock with the loose density of 1.6t/m<sup>3</sup> (a feed material with an average specific gravity of 2.7t/m<sup>3</sup>).
  2. The processing capacity shall be changed according to the different materials and different feeding.
  3. The CSS refers to Closed Side Setting. The measuring method will be decided by the tooth profile of the jaw plates. The processing capacity and the product size shall be changed according to the different tooth profil

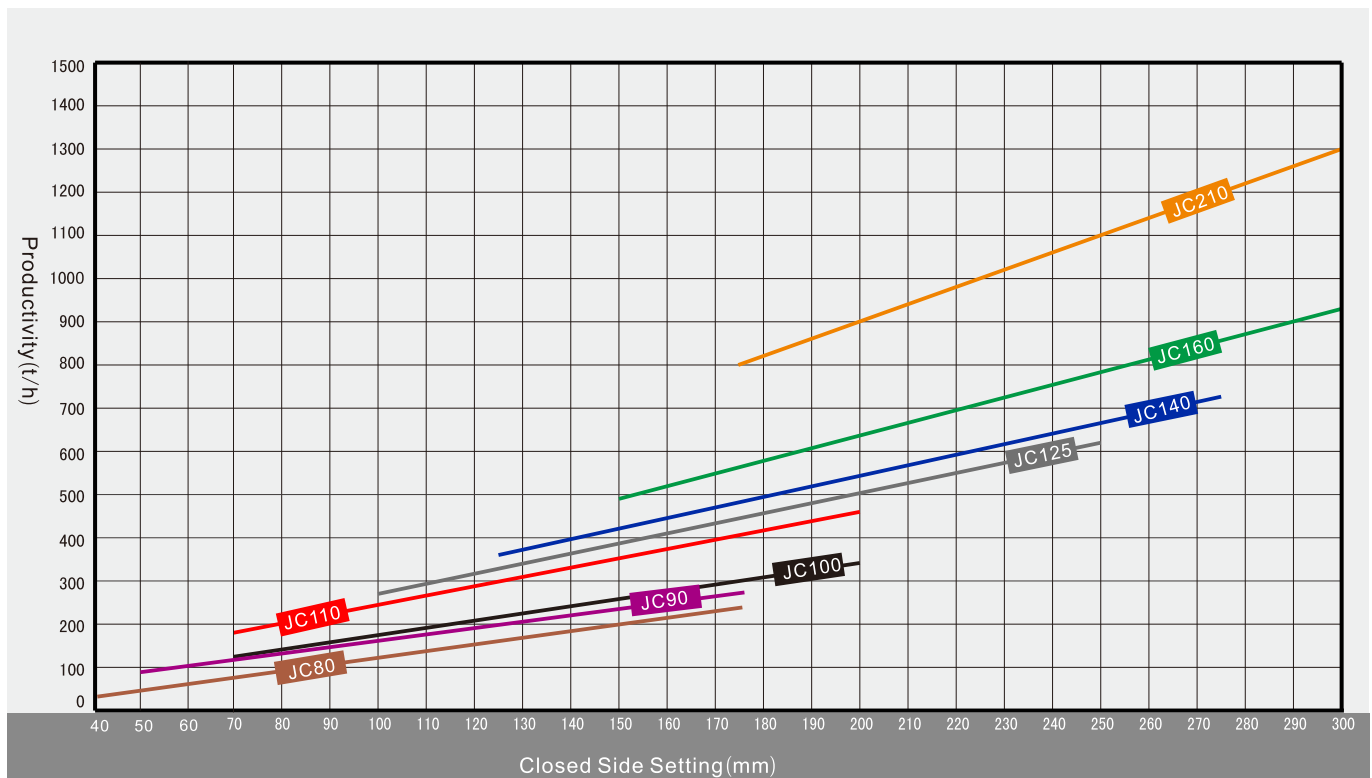


## STRUCTURE

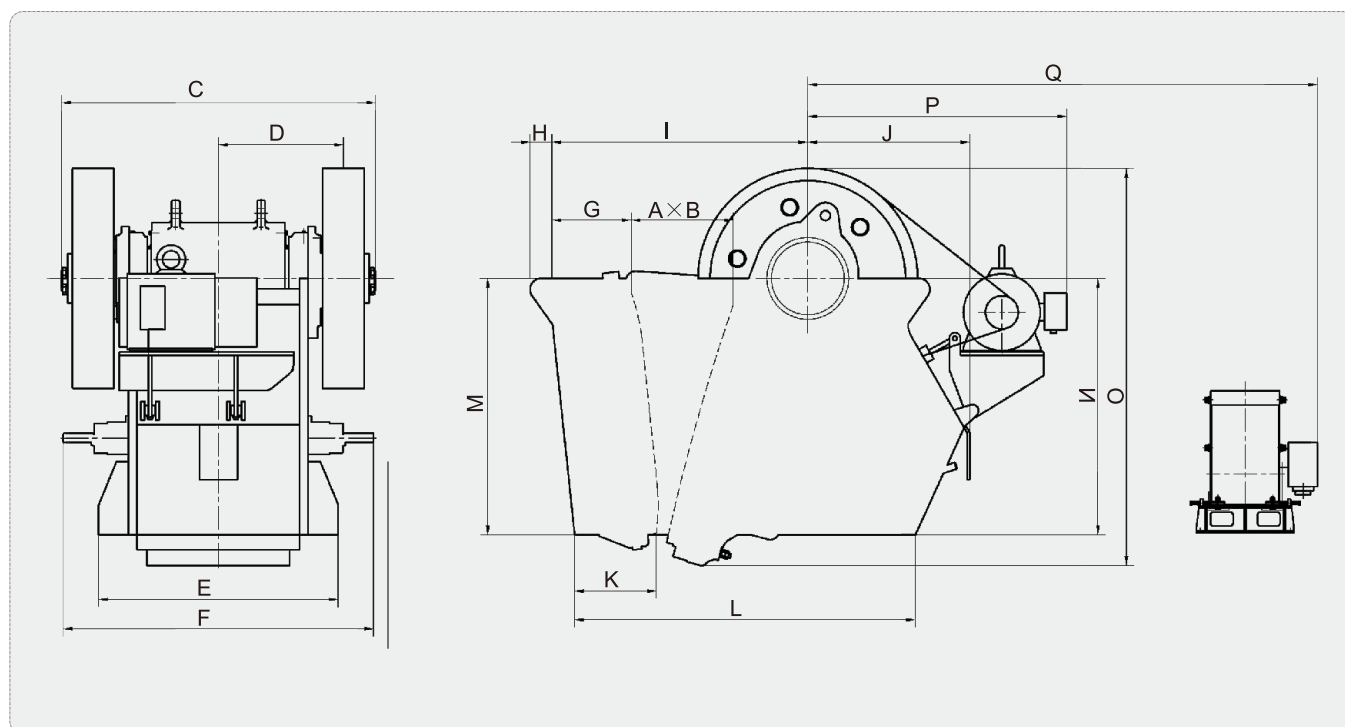


(\*The motor isn't shown in the structural figure.)

## THROUGHPUT CAPACITY



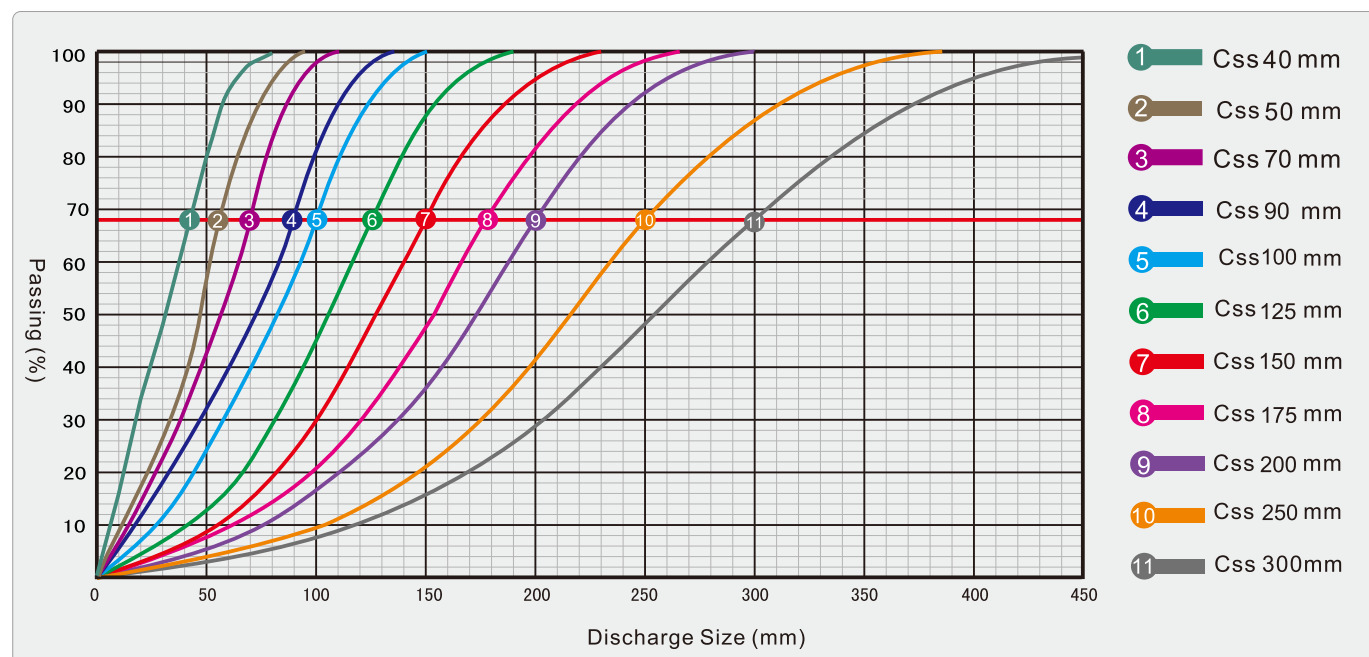
### DIMENSION



### DIMENSION TABLE

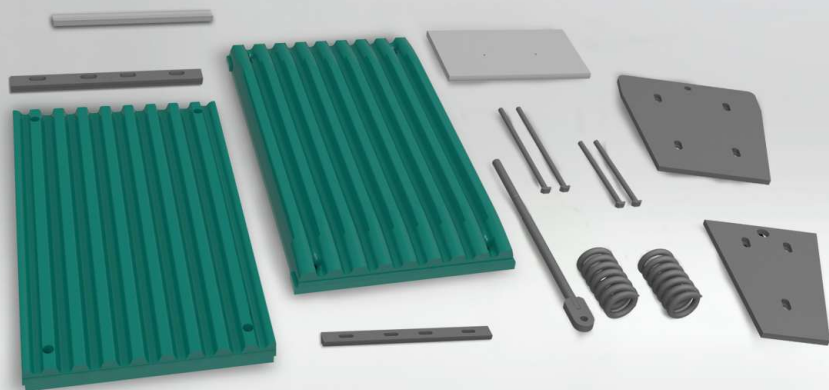
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
JC80	810	500	1530	630	1300	1780	400	65	1220	940	490	2080	1200	1200	1870	1270	
JC90	910	630	2000	850	1460	2150	420	150	1540	1160	490	2090	1760	1420	2740	1890	
JC100	1000	760	2130	882.5	1590	2250	480	85	1730	1180	670	2700	1700	1700	2770	1700	
JC110	1100	850	2290	940	1800	2400	490	130	1840	1020	500	2170	1970	1970	3000	2080	
JC125	1250	950	2600	1030	1960	2570	600	180	2100	1330	620	2790	2100	2100	3300	2120	
JC140	1400	1070	2840	1220	2110	2700	700	200	2580	1565	730	3050	2430	2480	4100	2520	
JC160	1600	1200	3300	1350	2360	3100	870	200	2600	2300	850	4210	2480	2480	4100	2890	
JC210	2100	1600	4200	1780	3420	4200	900	260	3400	2000	910	4620	2670	2670	5000		4390

## GRADATION CURVES



## APPLICATIONS





## VALUE BUILT UPON SERVICES

In order to ensure that your equipment is under the best condition, it is highly recommended to use parts, components and recommended lubrication oil from Luoyang Dahua.



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