



Reach new height with KEFID

# Impact Crusher



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## Brief Introduction:

Impact crusher is new product designed by our company after absorbing the advanced technology home and abroad. This kind of crusher can crush many kinds of materials with max feed size less than 500mm and crushing strength less than 360 MP. It has the features of high ratio of crushing, high efficiency of crushing, easy to maintenance, etc. The final products are with cubic shapes and are the ideal equipments for construction the highway and water and electricity construction. In addition, impact crushers are more suitable to process granite, limestone, bank gravel etc. in the area of highway construction, water conservancy project and architecture.





## Structure and Working Principle:

### Working Principle:

It is a crushing machine that uses the impact energy to crush stuff. When the stuff enters the field of the hammer, it is impacted by the hammers, thrown onto the impact plate, and crushed. The stuff springs from the impact plate, is impacted by the hammers again, and thrown onto impact plate. This process will last until the stuff meets the requirement and falls from the machine. Adjusting the distance between impact frame and rotor frame can change the shape and size of the output.

When some stuff that cannot be crushed enters the machine, the impact frame will fallback, the stuff falls from the machine. This device can guarantee the machine cannot be damaged.

### Structure and Features:

PF-series Impact Crusher mainly consists of rotor, impact frame, mainframe, ratchet cover and transmission parts.

#### Rotor

The rotor frame is welded by steel plate. The hammers are fixed on right place. Lateral stop can effectively avoid the movement of the hammers.

The hammers are made of abrasion-resistant material.

The whole rotor has good balance and resists impact.

**Mainframe** The mainframe consists of seat, middle box-frame, and back cover, which are jointed by special bolts. The back cover adopt ratchet device, it is safe when the worker replaces the easily damage parts. It is more convenience to examine, repair the machine and replace the easily damage parts if the user equipment hoist over the mainframe. There are two repair doors on the two sides of the mainframe.

#### Impact frame:

In this machine there are two impact frames ---front impact frame and back impact frame. Each impact frame is separately suspended in the mainframe. When the machine is running, the impact frames keep the normal position by the gravity. When something that cannot be crushed enters into the machine, such as metal, the impact frame will rise up, discharge the metal, and come back. The distance between impact frame and rotor can be adjusted by the bolts. The impact plates can be replaced from the serious abrasion place to the less abrasion place.

#### Transmission:

The rotor is driven by V-belt. The pulley attached with main shaft is joined with taper sleeve, so it is easy to be disassemble. The speed of rotor is adjusted by changing grooved pulley.

#### Ratchet cover:

There are two ratchet covers in the both sides of the mainframe. It is easy to open and close for inspection of machine.

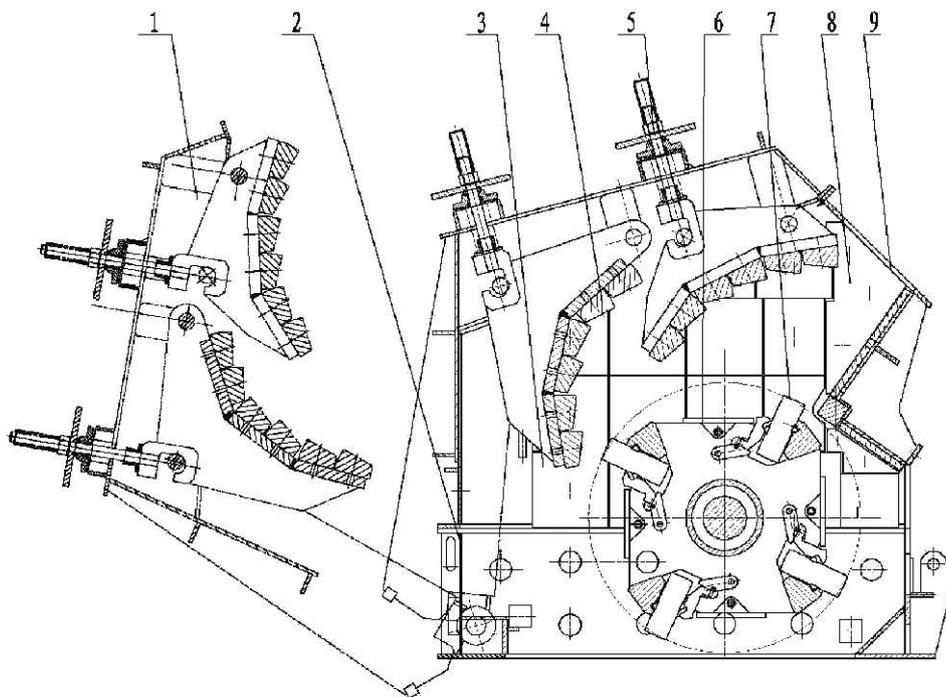
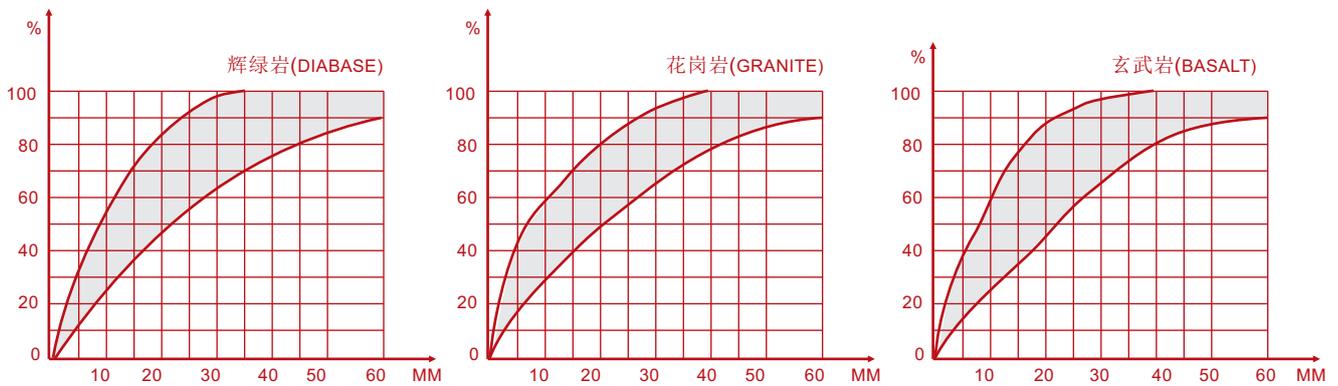




# Characteristics:

- Hammer is made of high chrome;
- Liner board is made of wearable materials;
- Specially designed tooth impact plate;
- More suitable for crushing hard rock, high efficiency, low consumption;
- Final products is cubic, discharge opening is adjustable;
- Make the crushing flow chart simple.

# Gradation



- |                       |                    |
|-----------------------|--------------------|
| 1、反击架 Impact frame    | 6、转子 rotor         |
| 2、下部机壳 lower frame    | 7、板锤 hammer        |
| 3、上部机壳 upper frame    | 8、衬板 lining plate  |
| 4、反击板 impact plate    | 9、进料口 feed opening |
| 5、调整螺栓 adjusting bolt |                    |



## Technical Data:

Model	PF-1010	PF-1210	PF-1214	PF-1315
Size of Rotor (mm)	Φ 1000×1050	Φ 1250×1050	Φ 1250×1400	Φ 1320×1500
Feed Opening (mm)	400×1080	400×1080	400×1430	860×1520
Max. Feed Size (mm)	350	350	350	500
Capacity (t/h)	50-80	70-130	90-180	120-250
Power (Kw)	75	110	132	200
Weight (t)	12.5	16.5	19	24
Overall Dimension (L×W×H) (mm)	2440×2250×2630	2700×2340×2870	2700×2440×2900	2860×2800×3050

Notes: Above inlet size, output size and capacity data are based on limestone.  
The capacity is related to the characteristics of crushed material, feed size and composition. So it is only for reference.



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