

# Hydraulic Impact Crusher





## Overview

PFW series of European version of impact crusher is one of the developed technologies from SBM. PFW series impact crusher contains two types—PFWIII three-cavity impact crusher and PFWII two-cavity impact crusher. Based on the essential technology of traditional PF series impact crusher, PFW series impact crusher has its own improvements. Special process of the heavy-duty rotor combining with high wearable materials, PFW series impact crusher gets a supreme performance in primary crushing, fine crushing, and super fine crushing.

## Application

PFW series impact crushers are suitable for materials whose compressive strength is less than 360Mpa, and particle size is less than 700mm. This kind of machine features easy maintenance, high crushing ration and crushing efficiency etc. with final products in cubic shape, impact crushers are the ideal crusher for aggregates processing in high-type highway building, water conservancy and power construction. They are preferred to crush granite, limestone, river gravel etc.

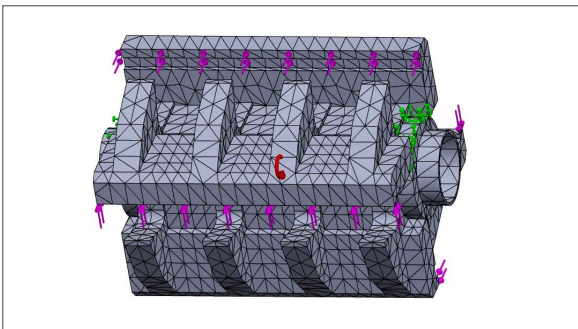


# Main Features & Benefits

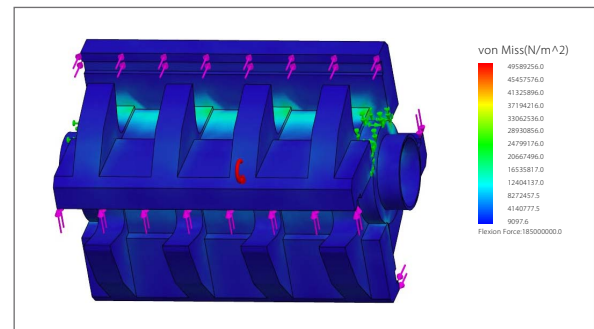
PFW series impact crusher improve the adjusting device, easy to operate. The design of three chamber crushing make the PFW series impact crusher perform well in the fine crushing and superfine crushing operation. The design of the two chamber crushing simplifies the flow chart of coarse crushing operation.



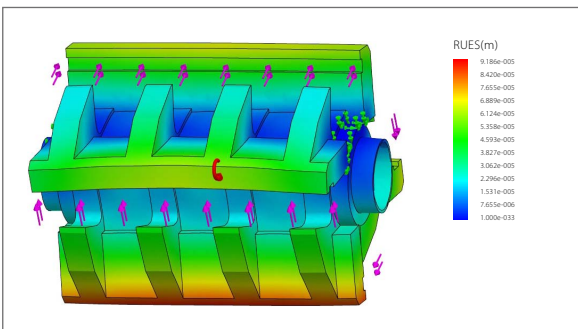
1. Production with world-class manufacturing processes and the highest level materials.
2. High quality of the rotor by Heavy-duty design and rigorous tests.
3. Greatly improved radial strength by cast steel bearing pedestal.
4. Reliability of crushing by Spheno-embedded fixing design of the hammer.
5. Easy maintenance by hydraulic adjusting device.
6. Top quality of bearing by larger size and higher capacity.
7. Superem performance in fine crushing by three crushing cavities.
8. Simple crushing process by two crushing cavities.
9. Analysis and examination of the rotor.



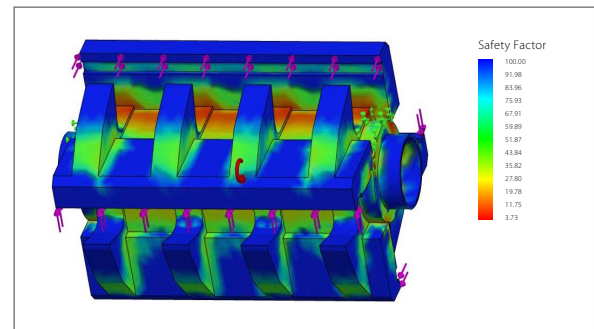
Tessellation



Stress Caculation



Displacement Caculation



Security Coefficient Check





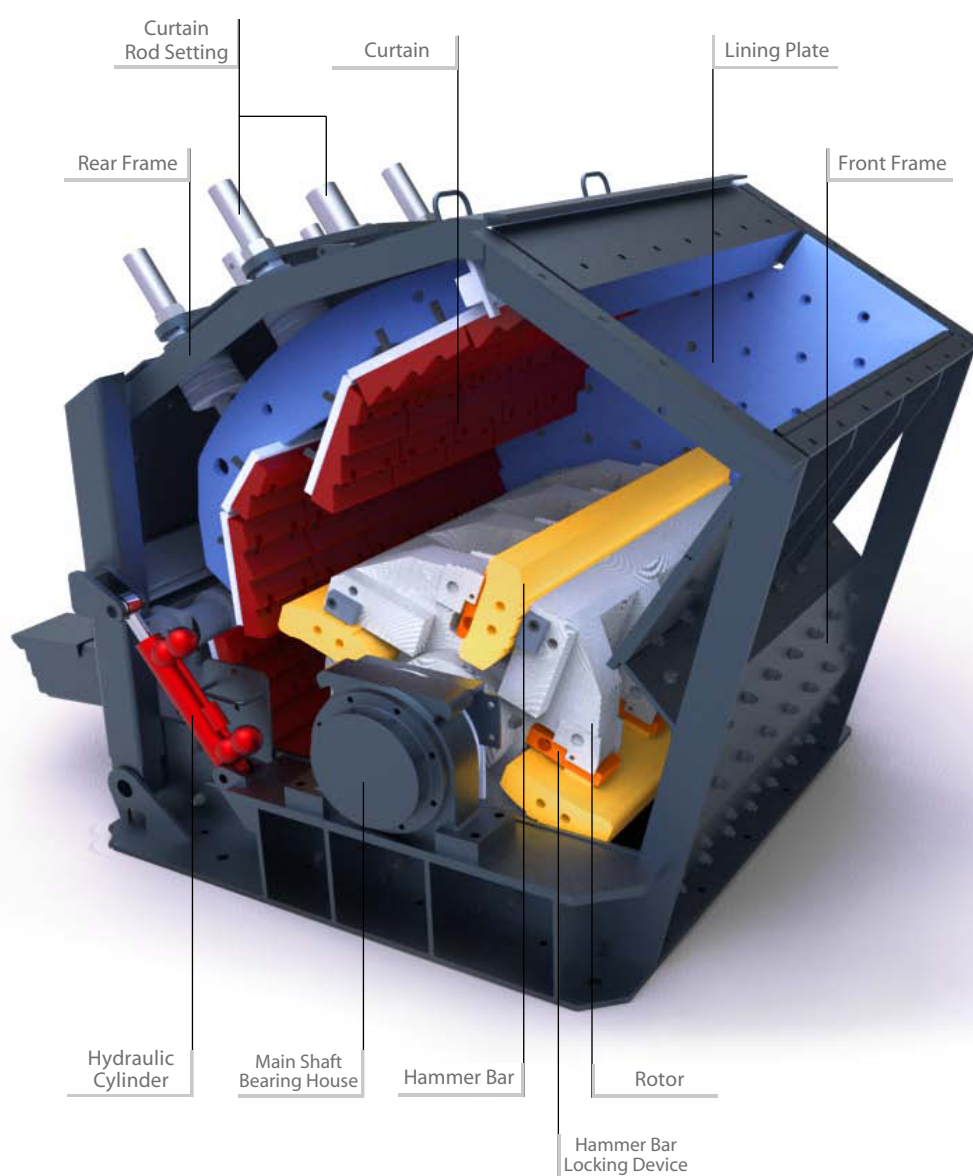
## Overall Dimension & Foundation

1. PFW should be installed on solid concrete foundation or steel frame foundation. The depth of the foundation should be adjusted according to local condition.
2. In case that the materials pile up under the equipment, there should be enough space for installing conveying equipments. Specific dimension should be adjusted according to customer's assistant equipments.
3. The foundation is not the shop drawing. Customers make the shop drawing according to the foundation drawing.



# Main Structure

PFW series impact crusher mainly includes rotor, impact assembly, frame, screw mandrel, hydraulic uncap assembly, transmission system etc.

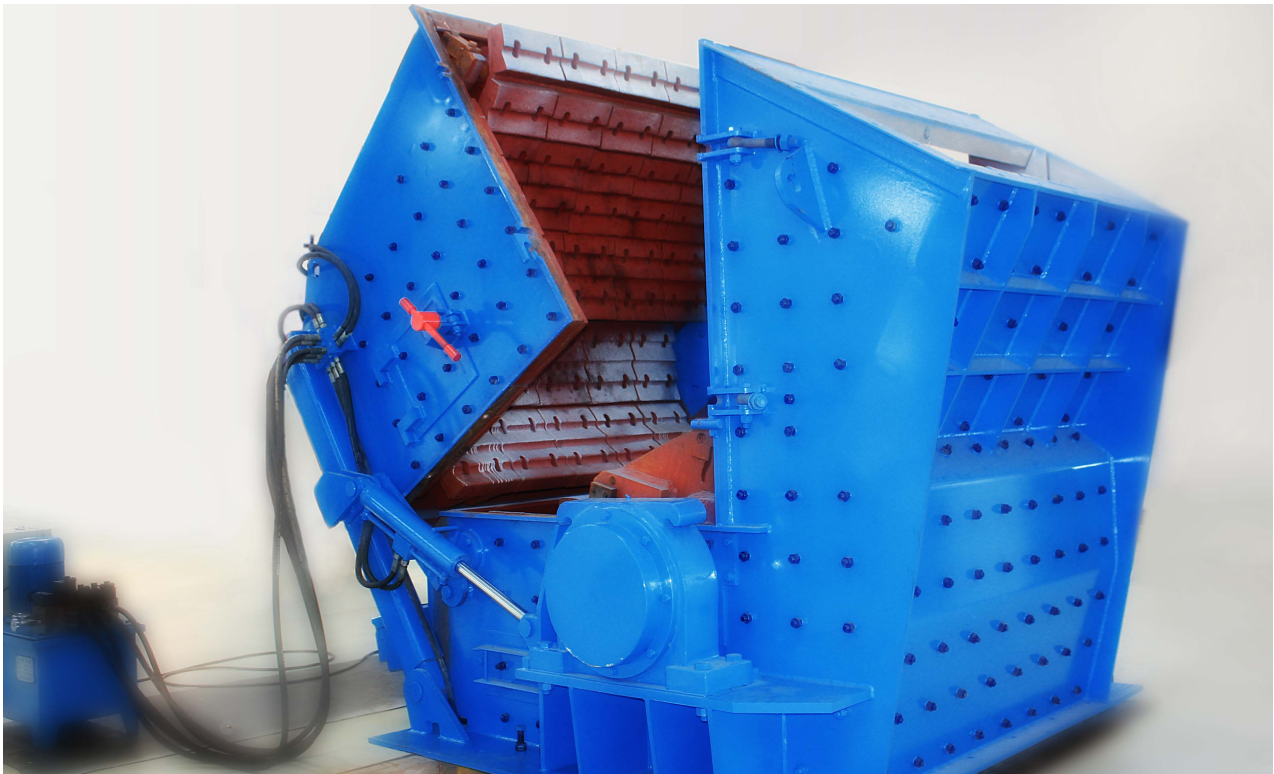


# Technical Data

S Model	Spec.	Feed Opening (mm)	Max. Feed Size (mm)	Capacity (t/h)	Power (kw)	Weight (t)
PFW1210 III	Φ1150X960	570X990	250	70-120	90-110	15.0
PFW1214 III	Φ1150X1400	570X1430	250	90-170	132-160	19.0
PFW1315 III	Φ1300X1500	625X1530	300	180-270	160-200	25.0
PFW1318 III	Φ1300X1800	625X1830	300	220-300	200-250	30.0

P Model	Spec.	Feed Opening (mm)	Max. Feed Size (mm)	Capacity (t/h)	Power (kw)	Weight (t)
PFW1210 III	Φ1150X960	1100X1030	400	90-160	90-110	17.0
PFW1214 III	Φ1150X1400	1100X1430	500	130-200	132-160	22.0
PFW1315 III	Φ1300X1500	1200X1530	600	180-320	160-200	29.0
PFW1318 III	Φ1300X1800	1200X1830	700	240-400	200-250	34.0

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



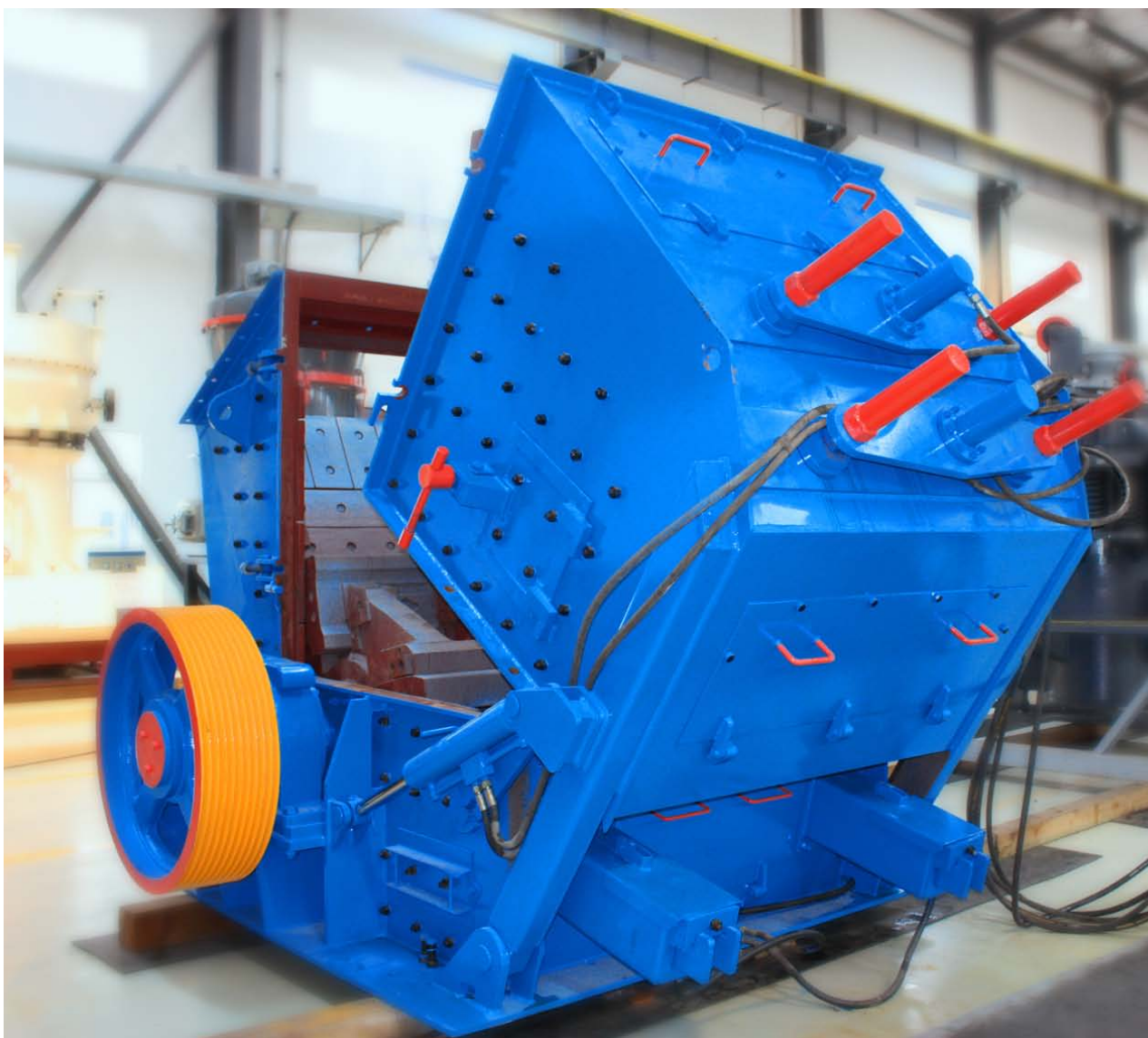




## Working Principle

The machine crushes materials with impact force. When the materials enter the blow bar area, they are crushed due to the impacting force of the high-speed blow bar and are thrown to the impact plates 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 crushed products can be adjusted by setting the gap between the impact rack and rotor support.

The machine employs self-weight security device at the 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.



# Service

Since the establishment, Shanghai Shibang Machinery Co., Ltd has regarded "All is for clients" as its service goal and has provided high-quality, high-taste, high-efficient and all-around-way service for its clients.



Service Promise: from the design process to delivery, we do every step carefully to satisfy clients to the best.

## 1. Pre-sale Services

Act as a good adviser and assistant of clients; enable them to get rich and generous returns on their investments.

- ◆ Select equipment model
- ◆ Design and manufacture products according to clients' special requirement
- ◆ Train technical personnel for clients

## 2. Services During The Sale

Respect clients; devote ourselves to improving the total value of clients.

- ◆ Pre-check and accept products ahead of delivery
- ◆ Help clients to draft solving plans

## 3. After-sale Services

Provide considerate services to minimize clients' worries.

- ◆ Assist clients to prepare for the first construction scheme
- ◆ Install and debug the equipment
- ◆ Train the first-line operators on site
- ◆ Examine the equipment regularly
- ◆ Provide maintenance for big items
- ◆ Provide technical exchanging
- ◆ Provide perfect service
- ◆ Distribute the guarantee fittings door-to-door
- ◆ Take initiative to eliminate the troubles rapidly at site







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*Any change of technical data shall not be advised additionally.*