



Impact Crusher

The [Impact crusher](#) is used in secondary crushing of material, The impact crusher processes various kinds of material with crushing compression strength not more than 350 mpa, featuring firm structure, stable performance, large capacity, even producing granularity ,convenient maintenance and economical running expense, and widely applied in the areas of mining ,construction material,smelting, railway, highway, water conservancy, etc.



Impact crusher features

- 1) Locking sleeve assembly Connection
- 2) Blow bar with high chrome
- 3) Hydraulic or hand opening
- 4) Special impact plate
- 5) Cubical shape of final product
- 6) Easy maintenance



7) Reliable performance

How Impact Crusher works?

The [Impact Crusher](#) is mainly used in secondary crushing; it can crush material whose crushing compression strength is not more than 320mp. It is suitable to produce high rank highway 、 hydroelectric and building material.

Illustration of How impact Crusher runs

When the materials enter 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 foreign stuff enters the machine, the impact frame will fallback, the stuff falls from the machine. This device can prevent machine from damages.

Purpose Of the Impact Crusher

The Impact Crusher Used for mineral dressing, chemical, cement, building, refractory materials, ceramics, glass and other industrial sectors in intermediate crushing and fine crushing of diversified medium hard ore, such as limestone, calcined lime, clinker aggregate, slag, cullet, calcium salt, crude ore, building material, coke, coal, etc.

Operating principle OF the Impact Crusher

The [Impact Crusher](#) Machine rotor revolves in fixed direction by means of driving action of triangle belt that connects with motor. Above rotor, there are two sets of suspended impact plate. Material enters into rotor through charging hole and feeding guide plate. The plate hammer fixed on rotor strikes onto impact plate and then fall from it to mutually shock material blocks that are successively delivered upward by rotor. Therefore, material block will be moved recurrently and repeatedly in the crushing chamber that is composed of rotor, impact plate, guide plate and chain curtain, by means of



which intense shock phenomenon will come into being, and the material block will be crushed along its natural crack or concave and bulge.

Structural specifications Of Impact Crusher

The Impact Crusher mainly includes engine block, rotor, two sets of impact plate and other main parts.

The engine block, being connected with bolt, is composed of base frame, frontal box blank and rear box blank, all of which are made of welded steel plate. In the engine block, there are several cast iron or steel lining plate fixed on inner wall of casing to protect it from abrasion. Additionally, in order to be convenient for observation, over haul and replacing quick-wearing parts, there are several wickets designed on the engine block.

Frontal box blank is equipped with chain curtain at its inlet to prevent material blocks from flying out of crushing chamber.

The rotor block of rotor is welded into being with high manganese steel plate hammer fixed on its panel seat. The plate hammer can be used with its two surfaces until both of them are so worn that requires new one. The rotor block is fixed on rotor shaft, one end of which is equipped with triangle belt pulley to input dynamic force, and the rotor is fixed under engine block by means of supporting action of two rolling bearings.

Impact plate is made of welded steel plate with high manganese steel lining plate fixed with bolt on its surface. The gap between impact plate and plate hammer can be adjusted according to practical requirement. In the case of massive ore or non-cracked material (metal parts or other hard sundries) enters into, impact plate will prop upward automatically to play the role of safety.

Technical Data Of Impact Crusher:

Models	Specification (mm)	Size of feed opening (mm)	Max.feed size (mm)	capacity (t/h)	power (kw)	Weight (t)
PF-0807	850x700	400x730	300	15-30	45	8
PF-1010	1000x1050	400x1080	350	50-80	75	12
PF-1210	1250x1050	400x1080	350	70-120	110	14
PF-1214	1250x1400	400x1430	350	130-180	132	18.6



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PF-1315	1320x1500	860x1520	500	160-250	220	19
PF-1320	1320x2000	860x2030	500/650	300-350	300	24

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