



Roller Crusher

The [Roller crusher](#) can be classified into double roller crusher and four roller crusher according to the roller quantity. The Roller Crusher bears the features of stable operation, easy maintenance, low cost, output size adjustable. The Roller Crusher can be used in the processing of fragile materials in cement, metallurgy, chemical, power generation, coal industries.



Working Principle Of Roller Crusher

Through the feed opening, the raw materials fall to between the two rollers, after crushed, the final products drop naturally. When there are unbreakable materials or the material is too hard, the roller will concede automatically under the effects of spring and hydraulic pressure, which will widen the clearance between the rollers and make the hard or unbreakable so as to avoid damaging the machine. The clearance between the two rollers can be adjusted to change the sizes of final products.

Operational principle Of Double Roll Crusher

The Double [Roll Crusher](#) is to install toothed plate on two main shafts which will rotate in opposite direction and then build up cutting and stretching force to break material. Main shafts pour out material directly into the whole top



space of crusher by driving mechanism (single or double drive) and not restricted by crushing size. After crushing, the material will be discharged between two toothed plate and side wall comb teeth, screening and crushing are finished with shapely product granularity.

ApplicationsOf Double Roll Crusher

The [Double Roll Crusher](#) suits for coarse and secondary crushing of various materials such as limestone, granite, iron ore, coal, etc. Its low and short main frame, rather compact and simple structure, make the weight of whole machine is lighter than other crusher by 1/2~1/3 with the same capacity. Therefore, it is preferred product for portable and semi-portable screening and crushing plants. We have three different length boxes of short case, standard case and long case for every serial to meet the needs of different capacities. And various gear teeth for every specification is available to fit different crushing and discharge the materials forcedly without jam, so it rather suits to those sticky and high water content material. This product has the properties of low power consumption and low noise, is environmental and energy conservative product.

Applications & Suitable of Four roll Crusher

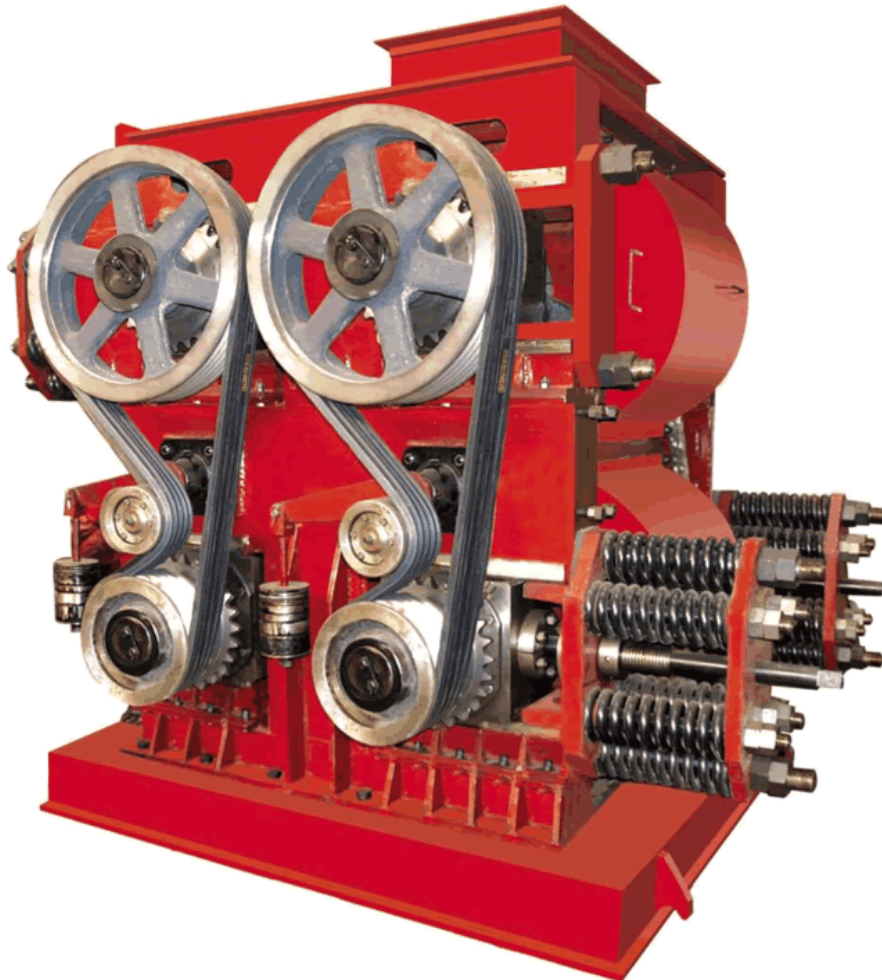
The four- roll crusher is mainly used to crush metallurgical coking coal, and also can crush big particle size material by adjusting the space of upper and lower roll. Its properties: compact structure, small occupation of land, large crushing ratio (18:1) and high production.

Operational Principle of Four roll Crusher

Four [Roll Crusher](#) is to crush material by two pairs of rollers which rotate in opposite direction and produce pressing and shearing force. When the material got into the upper crushing cavity, by the force of rotating roller, it is enforced to pass the two rollers to be pressed and cut by rollers, then, it begins to be crushed. Small grains after crushing is along the tangent direction of rollers, through two rollers of down cavity, and thrown out. Big sized grains which surpass the space will go on being crushed.



Main components and structural performance of Four roll Crusher



Four Roll Crusher mainly consists of main frame, roll parts, driving parts, bumpers, hydraulic plants.

Rollers of four- roll crusher can be divided into active roller and driven roller. Upper and down rollers are both fixed firmly on main frame of machine.

Active rolls are fixed up while driven rolls are removable and its back part is equipped with hydraulic cylinder. Balanced crushing force and passing through of over hard material are both finished by hydraulic cylinder.

Rolling leather on rollers parts are moulded by alloy steel with heat processing



to improve strength and hardness.

Technical Data Of Roller Crusher

Type	Type	Technical performance			Power (kW)	Weight (Kg)
		Feed Lump Size (mm)	combustible size (mm)	Productivity (t/h)		
Double Roller	2PG310x600	<16	2~5	1.5~7	2*5.5	3600
	2PG610x400	<36	2~9	3~9	2*11	3800
	2PG750x500	<40	2~10	7~12	2*15	10250
	2PG750x700	<40	5~10	15~25	2*22	11700
	2PG750x1000	<40	2~10	6~30	2*30	12500
	2PG900x500	<40	2~10	9~30	2*22	14000
	2PG900x900	<40	2~10	11~45	2*30	16800
	2PG900x1200	<40	3~10	15~60	2*55	20800
	2PG1000x800	25~90	3~40	12~150	2*45	22600
	2PG1200x1000	<40	3~12	10~50	2*37	46820
	2PG1200x1200	<40	3~12	18~68	2*75	48600
Four Roller	4PG750x500	30~60	2~10	3~10	18.5 +17/11	20800
	4PG750x600	30~60	2~10	3.6~12	18.5 +17/11	21800
	4PG900x700	40~100	2~10	10~60	30 +12/24	28700
	4PG900x900	40~100	2~10	20~70	45	31386



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	4PG1200x500	50~120	3~10	30~90	75 +55/40	69000

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