GP Single Cylinder Hydraulic Cone Crusher

Capacity: 45-2130t/h
Max. Input Size: 560mm

Craftsmanship
Shape the reputation of trust

Features

Multiple Cavity Types Meet Various Production Needs

HPZ Hydraulic Cone Crusher has several kinds of standard crushing cavities which can fully meet the secondary, tertiary and even quaternary crushing needs after primary coarse crushing.

High Production Efficiency, Strong Holding Capacity

HPZ Single-cylinder Hydraulic Cone Crusher achieves higher production efficiency and better product quality by matching suitable crushing cavity, eccentric distance and movement parameters. Combined with optimized strength and high-quality components, HPZ Hydraulic Cone Crusher has bigger holding capacity and crushing ratio as well as stronger throughput capability.

Fully Automatic Control Covering Whole Production Process

The fully automatic control system equipped on the HPZ Cone Crusher can provide manual control, constant discharge opening control, constant power control and many other operation modes for users to select. It can continuously monitor the internal actual load of the crusher to optimize the use ratio of the crusher and allow it to play its best performance at all times.

Easier for Maintenance, More Effective for Cost Savings

HPZ Hydraulic Cone Crusher has a simple structure. Almost all checks and maintenances can be done by only taking down the upper rack. The structure can not only make maintenances and checks get easier, but also save maintenance costs a lot. Besides, HPZ Single-cylinder Hydraulic Cone Crusher is compact on its structure, occupying small floor area, which further cuts expenditures on the foundation building.

Capacity: 45-2130t/h
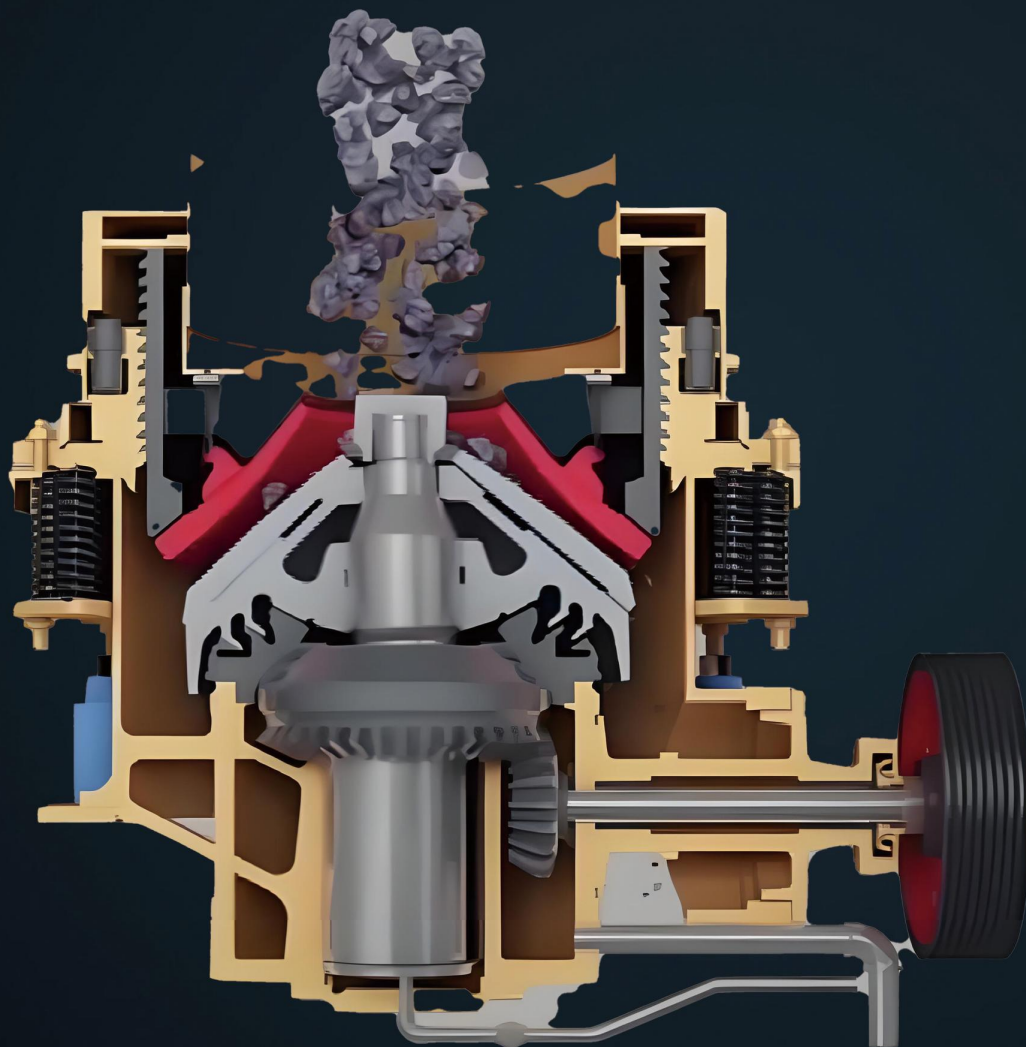
Max. Input Size: 560mm

Min. Output Size: 4mm

Application

Popular among aggregates, highway construction, railway construction, airport building and some other industries.

Material

Most kinds of rocks, metallic ores, and other minerals, such as granite, marble, basalt, iron ore, copper ore, etc.

Technical Parameters

Model	Stroke	Maximum feed size (mm)	Weight (kg)	Power (kw)	Output of closed side discharge opening (mm) (TPH)							
					8	10	15	20	25	30	35	40
GPD100	16	40-150	5800	75-90	40-50	45-58	60-70	80-90	85-95			
	20	40-150	5800	75-90	50-58	50-60	70-80	95-105				
	25	40-150	5800	75-90		58-65	75-90	105-120				
GPD200	18	40-210	9300	110-160	60-70	70-90	80-105	100-125	135-150	160-175	185-200	
	25	40-210	9300	110-160		90-110	110-130	130-158	160-180	185-210		
	32	40-210	9300	110-160			140-160	170-190	190-220			
	40	40-210	9300	110-160				200-220	200-240			
GPD300	25	40-260	13400	200-250	100-120	110-130	135-158	160-180	190-210	210-235	240-260	
	32	40-260	13400	200-250	110-130	120-150	165-195	95-225	230-260	265-295	300-330	
	40	40-260	13400	200-250		150-17	205-230	245-27	290-320	325-358		
GPD400	25	40-300	23500	220-315		130-150	158-175	180-200	210-230	230-258	260-280	330-350
	32	40-300	23500	220-315		140-170	185-215	215-245	250-280	285-315	320-350	410-430
	40	40-300	23500	220-315			225-250	265-295	210-340	345-375		
GPD500	25	40-300	26500	250-355		140-160	160-180	190-210	240-260	270-290	310-330	350-370
	32	40-300	26500	250-355			230-250	270-290	310-330	340-370	380-410	430-450
		40-300	26500	250-355			290-310	320-340	380-410	430-460	480-510	

Notice: Any change of technical data shall not be advised additionally.

WORKING PRINCIPLE

When a HPZ Single Cylinder Hydraulic Cone Crusher works, driven by the motor, the transmission shaft rotates under the action of belt pulley and triangular belt. Next, the transmission shaft drives the eccentric sleeve to make it rotate around the axis. Meanwhile, the eccentric sleeve forces the movable cone to do pendular movement. This movement makes the movable cone and fixed cone sometimes close to, sometimes far away from the rolling wall. Materials are continuously shocked, squeezed and crushed in the crushing cavity between the crushing wall and the rolling wall. Finally, materials are discharged out of the machine when their fineness reaches the discharging standard.
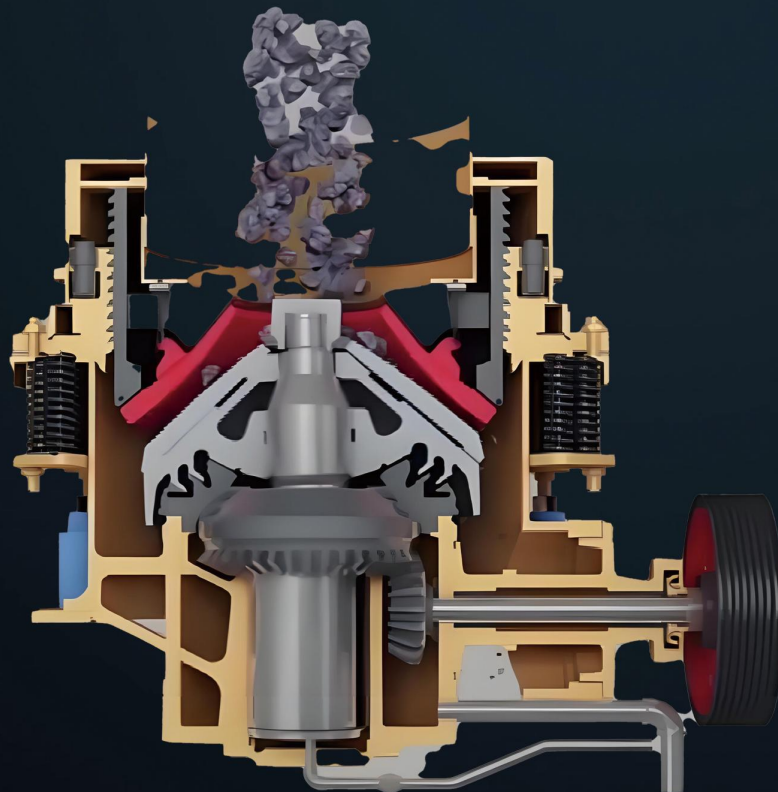
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