KEFID 更卓越的工作性能
More excellent running performance

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HST CONE CRUSHER

100 160 250 315

KEFID

HST100

HST160

HST250

HST315

BRIEF INTRODUCTION

HST Single-cyclinder hydraulic cone crusher is a newly designed hig-effiency crusher based on KEFID 30 year's experience on design, production, sales and after-sale service in crushing field. We design this new crusher based on the advanced crushing technique from USA, Germany, and Sweden, combining with the development of modern industry technology.
With advanced intelligent automatic control system, HST single-cylinder Hydraulic Cone Crusher can realize accurate adjustment and convenient maintenance in crushing process, and high energy consumption efficiency. Excellent lambinating crushing crushing cavity achieves high crushing efficiency, good output particle shapes, and high capacity and low production costs.

HST can be applied to metal and non-metal mines, metallurgy, building, cement and sandstone industry etc. It's used for middle, fine and super fine crushing of iron ore, manganese ore, gold ore , copper ore, granite, limestone, quartzite etc.
Combined with KEFID wide sales and service network throughout China and the world, it also provides convenient and professsional technical support and after-sales service for you at all times and places.
HST represents the most advanced crushing technology all over the world, with the technology of mechanization,hydrofication, electrification, automatization, intelligent control and so on. Fully meet customer demand, we believe we will be your best supplier!

FEATURES

1.High capacity, high efficiency and low cost

The reliable design of HST Cone Crusher transfers the high motor power to the high working operability. The design and the most wearable components proved to reduce the cost. The perfect combination of reasonable eccentricity, cavity and motion parameter improves the capacity and efficiency greatly.

2.Various cavities for your choice

The cavity of HST Cone Crusher can be adjusted according to the different producing requirement. The same HST Cone Crusher can be used in different stages as a secondary, tertiary or quaternary machine, simply by changing the cavity, to produce the final product in different sizes.

3.Special bearing design makes longer service life and bigger carrying capacity

Sliding bearing adopts special oil wedge, changing the axis rotation power into film pressure power, thus holding the shaft which operates in the situation of dynamic lubrication, forming a stable lubricant film between the shaft and the bearing surface to avoid direct friction contact, reducing heat an prolonging the service life of bearing.

4.Enhanced main frame design, with higher reliability

The star-shaped top shell arm is more reasonable compared with the traditional arm structure; Optimized frame with the reinforcing rib enhances the layout; the use of nondestructive testing and acceptance of the main part increases of the overall strength, improve the reliability of equipment operation and extend the service life of the machine.

5.Good-cubic shape final products

The mining industry or aggregate industry require high capacity and good shape final products. HST series cone crushers use the layer-pressure crushing principle, this not only improves the capacity of the crusher , but also makes it possible to have good –cubic shape final products.

6.Stable operation, easy maintenance

① HST hydraulic cone crusher adopt the floating type main shaft and hydraulic system, which integrate the function of discharge adjustment and overload protection together, maintaining performance with the simple structure. There is no need of complicated discharge adjustment device and over-iron protection device, the structure is simpler and operation is more reliable.
② Positive pressure dust-proof system avoids lubricant pollution and bearings damage, extending the service life of the lubricants and life of equipments ;
③ The high-pressure hydraulic system is designed to meet the ordinary need, improving the reliability of the hydraulic system;
④ Spiral bevel gears of transmission system is more reliable, stable of low noise and long life;
⑤ Maintain the equipments from upper part, easy for inspection and maintenance;
⑥ Flexible replacement and adjustment of eccentric bushing to meet different crushing requirements.
⑦ There are different cavities for each specification, easy to exchange for different requirements.
⑧ Simple operations and remote control.

7.Optimized hydraulic and lubrication station design, easy maintenance, low operating cost

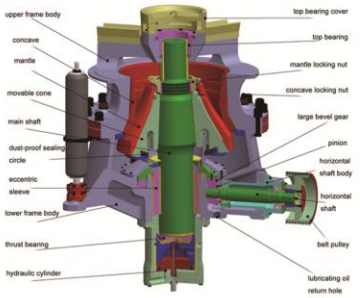
① Integrated hydraulic and lubricating station is designed, saving installation space.
② Reasonable layout of hydraulic lubricating commponments makes easy maintenance.
③ Optimized oil tank capacity, oil consumption is only 1/3 of conventional hydraulic and lubricating station with similar specification, low operation cost.

8.Advanced automatic control and adjustment system

Now, the automatic control system plays a more and more important role in the development of crushing technology. KEFID full-automatic control system has been a standard unit in the series of HST single-cycliner hydraulic cone crusher, which improves the crushing effiency greatly. It also saves the life of lining plates and keeps the good product size by promising the full feeding material and strengthening the laminating crushing between materials.
Full-automatic system achieves the best crushing effiency within the safe levels.
Full-automatic control system provides manual control, constant discharge opening control, and constant power control for the user choice. The control system is convenient, accurate and adjustment.
The inside work of crusher can be monitored constantly to improve the crusher performance all the time.
Automatic monitor shows all kinds of working parameters, the working condition timely. For example, when lining plates are worn, the control panel will show and alarm automatically.

9.Structure

HST single-cyclinder hydraulic cone crusher is composed of six parts: upper frame, lower frame, mantel, eccentric bushing, tansmission and hydraulic cylinder. The motor drives the horizontal axis, the gear and pinion rotate with axis, then the eccentric bushing rotates with gear, lastly, the eccentric bushing drives head to throw in a circle in order to achieve continuous pressing with crushing stones.
By adjusting the hydrulic cylinder, the head can move up and down to adjust and control discharge opening easily. Also there is iron protection function. When foreign objects(such as iron block) enter into crushing cavity, the hydraulic cylinder can lower the head automatically, thereby release foreign objects and protect the crusher.



10.Specification and parameters

Model	Cavities	Maximum feeding size (mm)	Minimum discharging size (mm)	Maximum install power (kw)
HST100	S1(超粗)Extra Coarse	240	22	90
	S2(中粗)Medium Coarse	200	19	
	H1(细)Fine	135	10	
	H2(中细)Medium Fine	65	8	
	H3(超细)Extra Fine	38	4	
HST160	S1(超粗)Extra Coarse	360	25	160
	S2(中粗)Medium Coarse	300	22	
	S3(粗)Coarse	235	19	
	H1(细)Fine	185	13	
	H2(中细)Medium Fine	90	10	
	H3(超细)Extra Fine	50	6	
HST250	S1(超粗)Extra Coarse	450	35	250
	S2(中粗)Medium Coarse	400	29	
	S3(粗)Coarse	300	25	
	H1(细)Fine	215	16	
	H2(中细)Medium Fine	110	13	
	H3(超细)Extra Fine	70	8	
HST315	S1(超粗)Extra Coarse	560	41	315
	S2(中粗)Medium Coarse	500	38	
	H1(细)Fine	275	16	
	H2(中细)Medium Fine	135	16	
	H3(超细)Extra Fine	65	13	

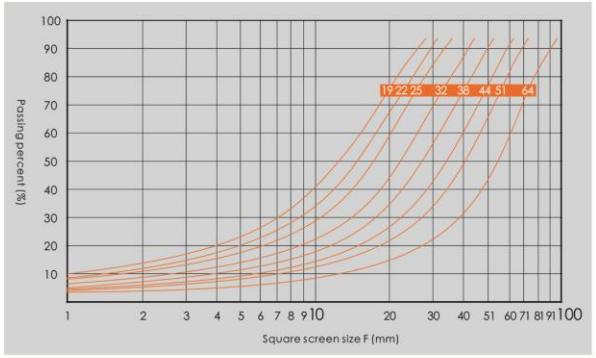
THE PARAMETER OF HST FOR PRIMARY CRUSHING

Model		HST100		HST160			HST250			HST315	
Model		S1(超粗) Extra Coarse	S2(中粗) Medium Coarse	S1(超粗) Extra Coarse	S2(中粗) Medium Coarse	S3(粗) Coarse	S1(超粗) Extra Coarse	S2(中粗) Medium Coarse	S3(粗) Coarse	S1(超粗) Extra Coarse	S2(中粗) Medium Coarse
Closed Side Setting (mm)	19		70			90					
	22	85	75-95		105	95-125					
	25	90-115	80-130	120	115-145	105-170			190		
	29	100-160	90-115	135-175	125-200	115-220		215	205-270		
	32	105-170	95	140-230	130-255	120-235		230-300	220-345		
	35	110-145		150-295	140-270	125-250	255	245-385	230-435		
	38	115		160-310	145-285	135-265	270-355	260-485	245-465		305
	41			170-330	155-305	140-275	285-450	270-515	260-490	335	320-420
	44			175-345	165-265	150-245	300-565	285-450	270-430	350-460	340-620
	48			190-310	175	160	320-605	305-400	290-380	375-590	360-755
	51			195-260			335-525	300	305	390-720	375-790
	54			205			350-460			410-860	395-825
	60									445-930	425-895
	64									465-980	450-825
	70									500-1050	480-635
	76									535-985	

Description:

1.The maximum particle size is 80% of maximum feeding size.
2.Production capacity in the table is only approximate indicator of crusher production performance, only for preliminary selection. The production capacity can estimate based on the average value or estimate on 80% of max. production capacity.
3.Represent capacity through crusher based 1.6/m3 dry material under open production, and assume that the max.feed size is the particle size which crusher allowed for. Not contain the finer maeterial that less than crusher closed setting. Crusher production capacity is related to material properties,
4.crushing ratio, the choice of eccentricity, feeding size and other factors. For final selection, please consult us.

THE PRODUCT GRADATION CURVES OF HST FOR PRIMARY CRUSHING



THE PARAMETER OF HST FOR SECONDARY CRUSHING

Model		HST100			HST160			HST250			HST315		
Model		H1 (细)Fine	H2(中细) Medium Fine	H3(超细) Extra Fine	H1 (细)Fine	H2(中细) Medium Fine	H3(超细) Extra Fine	H1 (细)Fine	H2(中细) Medium Fine	H3(超细) Extra Fine	H1 (细)Fine	H2(中细) Medium Fine	H3(超细) Extra Fine
Closed Side Setting (mm)	4			27-35									
	6			30-50			48-80						
	8		35-45	31-55			50-85			90-135			
	10	45	38-75	32-60		65-85	53-90			95-180			
	13	50-85	40-80	35-50	66-110	70-135	56-100		115-190	100-195			205-295
	16	52-95	45-76	38	75-150	75-145	60-104	110-200	120-280	110-210	170	190-295	220-320
	19	58-100	50-60		80-165	80-155	65-105	120-280	130-300	115-225	185-340	205-440	235-300
	22	60-105			85-175	85-165	70-95	125-295	140-320	125-240	195-440	215-470	250-290
	25	63-115			90-185	90-155	75	135-315	150-340	135-255	210-465	230-500	
	32	75-130			100-210	100		155-360	170-285	150-210	235-550	265-505	
	38				110-210			170-395	185		260-605	290-405	
	44							185-385			285-665		
	51										315-515		

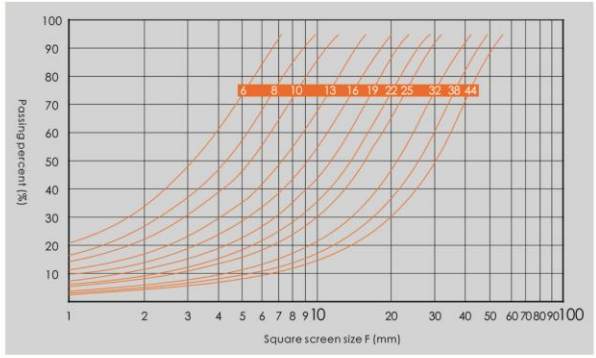
Description:

1.The maximum particle size is 80% of maximum feeding size

2.Production capacity in the table is only approximate indicator of crusher production performance, only for preliminary selection. The production capacity can estimate based on the average value or estimate on 80% of max. production capacity.

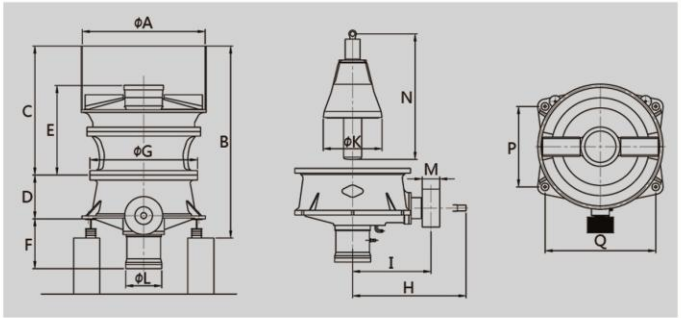
3.Represent capacity through crusher based 1.6/m3 dry material under open production, and assume that the max.feed size is the particle size which crusher allowed for. Not contain the finer maeterial that less than crusher closed setting. Crusher production capacity is related to material properties crushing ratio, the choice of eccentricity, feeding size and other factors. For final selection, please consult us.

THE PRODUCT GRADATION CURVES OF HST FOR SECONDARY CRUSHING



OVERALL DIMENSION

THE OVERALL DIMENSION OF HST FOR PRIMARY CRUSHING



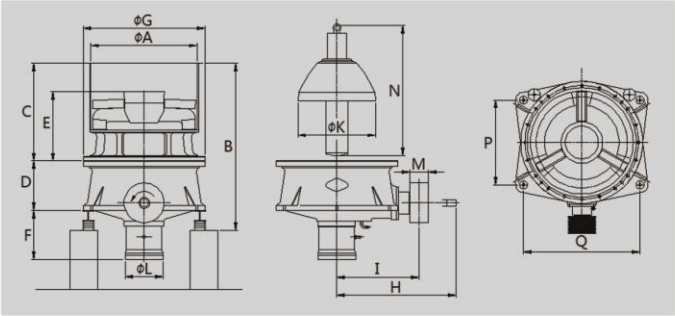
Model / Dimension	A	B	C	D	E	F	G	H	I	K	L	M	N	P	Q
HST100	1272	2179	1406	550	1016	751	1280	1270	843	772	420	110.5	1680	1090	1400
HST160	1635	2630	1705	665	1263	670	1550	1705	1145	962	495	161.5	2000	1270	1676
HST250	2550	3393	2365	755	1515	820	1830	1900	1270	1102	580	255	2402	1350	1880
HST315	2942	3925	2644	890	1830	945	2200	2156	1490	1295	690	297	2850	1528	2103

Note:

For details, see the user manual. Any change of the technical data shall not be advised additionally.

OVERALL DIMENSION

THE OVERALL DIMENSION OF HST FOR SECONDARY CRUSHING



Model / Dimension	A	B	C	D	E	F	G	H	I	K	L	M	N	P	Q
HST100	1078	1772	1000	550	718	751	1280	1270	843	790	420	110.5	1425	1090	1400
HST160	1372	2190	1262	665	910	670	1550	1705	1145	956	495	161.5	1710	1270	1676
HST250	1540	2391	1365	755	1050	820	1830	1900	1270	1135	580	255	2033	1350	1880
HST315	1954	3066	1755	890	1255	945	2200	2156	1490	1408	690	297	2350	1528	2103

Note:

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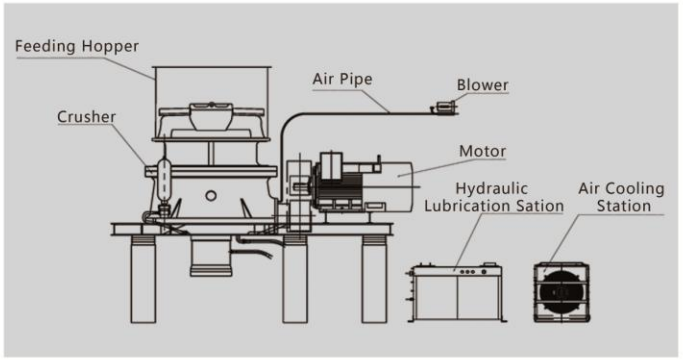
EQUIPMENT SYSTEM GRAPH



AFTER SALE SERVICE

Kefid service centers span the globe and are conveniently located to deliver prompt and complete service to keep your job moving forward. Our teams of technicians offer years of experience and offer services ranging from routine maintenance and accident repairs to customization and reconditioning.

ACCESSORIES CENTER

The use of the original parts is the key element for the equipment to keep a long service cycle. As a well-known manufacturer of mining machinery and equipment, Kefid provide customers complete accessories for the equipments and ancillary equipment with excellent quality, striving to enable customers to get the parts in the nearest place..

To return customers' choice and support ,Kefid make sure to minimize their investment cost and maximize their profit by improving the utilization rate, reducing the wear rate, prolonging the service cycle, reducing the repair time and so on.

Our goal is to guarantee the excellent operation equipment with high safety for our customers and minimize the downtime of the machine by predictive maintenance. Kefid service and original accessories can be 100% trusted at the time of maintenance.

At the same time, hundreds of skilled installation engineers are ready to make sure that every parts play its maximum efficiency in the operation of the equipment.