

LUOYANG DAHUA
HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO., LTD.



SERIES
**SINGLE CYLINDER
HYDRAULIC CONE CRUSHER**



MANUFACTURER
CRUSHING & SCREENING



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GPY
SECONDARY CRUSHING

■ 2022 Version

* We reserve the right of final interpretation of the data, subject to change without notice.



GPY500、GPY650、GPY800、GPY1000



GPY500S、GPY650S、GPY800S



GPY100、GPY200、GPY300、GPY400



GPY100S、GPY200S、GPY300S、GPY400S

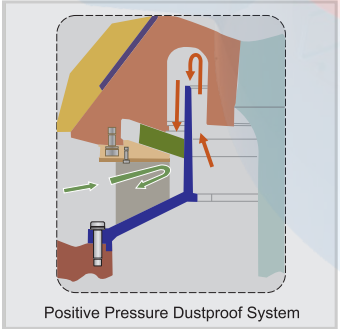
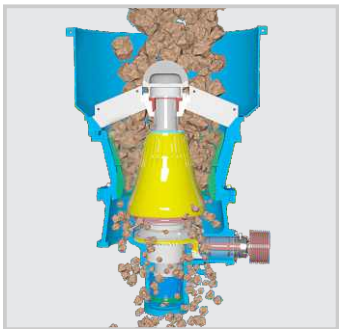
DESCRIPTION

GPY Series Single Cylinder Hydraulic Cone Crusher is one of advanced cone crusher in China, which is developed and manufactured by our company. The machine is one kind of high-class product combined with mechanical technology, electrical technology, hydraulic technology and advanced crushing technology. The machine adopts high strength casting-steel frame, alloy forging main shaft and high precision arc-shaped spiral gear driving structure, combined with multi-chambers selection and automation control system, which fulfills the performance and advantages. It can be widely used in secondary and fine crushing work for all kinds of hard materials and rocks to meet customers' various needs for crushing.

FEATURES

- **HIGH PRODUCTIVITY**
Combined with optimal crushing chamber, reasonable eccentricity, optimal swing frequency and laminating crushing principle, the machine has a large throughput capacity, high productivity, good products shape and low energy consumption.
- **AUTOMATION**
Automation control system can achieve the overloading protection, iron-passing protection, and function of constant-chamber without effect of liner-wearing, can also constantly monitor these conditions such as oil temperature, oil flow, oil pressure motor load and discharge opening size, etc., which ensure the machine work stably.
- **HIGH LOADING CAPACITY**
Optimization design of strong frame construction, two-ends structure (simple support beam) main shaft, unique hydrodynamic lubrication design of copper bush, smart and reliable overload protection system, which ensure the machine have long-term and stable working under extremely bad conditions such as hard rock crushing.
- **WIDE APPLICABILITY**
There are two types of the cone crusher: standard type and short head type. There are several of chambers can be chosen for each type. Different chambers can be changed by ECC. The adjusting of products' classifying can be achieved by adjusting the driving shaft speed to maximize the equipment's value.

- **LOW RUNNING NOISE AND LOW VIBRATION**
The driving structure of high precision arc-shape spiral gear has advantages of low running noise, high driving ratio and long durability. Low vibration itself and flexibility supporting of the steel structure ensure minimum vibration (which is caused by transmission from machine to foundation) and low foundation cost.
- **LOW INSTALLATION COST**
GPY200(s) and GPY300(s) cone crusher's advanced compound cup-type piston design has advantage of low installation height and the integral steel base frame ensure easy installation, short time-cost and minimum installation cost. The integral steel base frame ensures easy installation, short time-cost and minimum installation cost.
- **LOW RUNNING COST**
The liner use ratio and durability can be increased by special crushing chamber, liner structure and liner material. The standard positive pressure dustproof system ensures pure lubrication oil all the time, which extends the using time and low the cost of labor because by less frequent lubrication oil change. Most of the parts can be disassembled in top and side, which is safe, convenient and efficient.



TECHNICAL SPECIFICATIONS (SECONDARY CRUSHING)

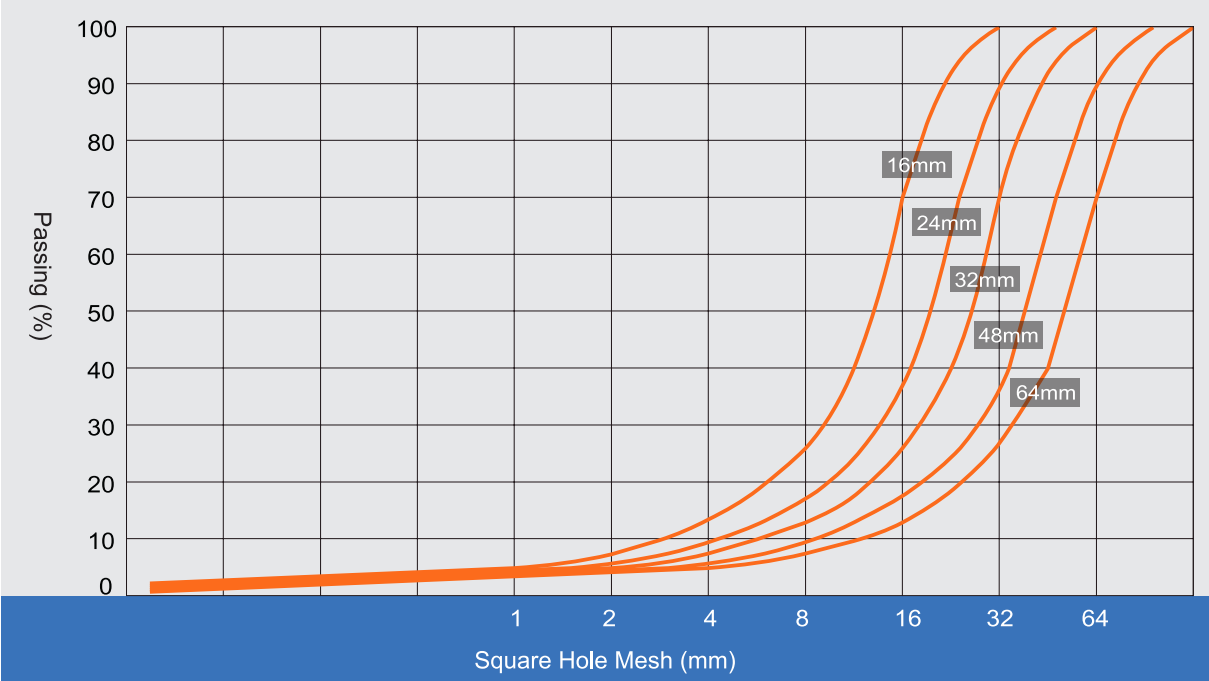
GPY100S、GPY200S、GPY300S、GPY400S

Model	Ecc (mm)	Max. Motor Power (kW)	CSS(mm) / Throughput Capacity (t/h)					
			25mm	30mm	35mm	40mm	45mm	50mm
GPY100S	20	90	115-125	140-150	155-175	165-195	180-210	
	25			180-190	195-215	205-225		
GPY200S	25	160		165-215	185-235	205-255	225-275	
	32				225-275	265-315	275-345	
GPY300S	32	250		320-350	350-390	370-410	390-430	
	40				400-450	440-490	470-520	
GPY400S	36	280		400-450	440-490	480-520	500-540	550-600
	42				520-570	550-630	620-670	650-700

Remarks :
The above capacity of listed crusher is based on the rock with bulk density 1.6t/m³. The capacity will be affected by many factors such as selected eccentricity, crushing ratio, material hardness, feed particle size composition, moisture and slit content etc. For more information in details please contact us.

GRADATION CURVES (SECONDARY CRUSHING)

GPY100S、GPY200S、GPY300S、GPY400S



The figure on the curves are for the discharging opening size and analysis of square hole.

TECHNICAL SPECIFICATIONS (FINE CRUSHING)

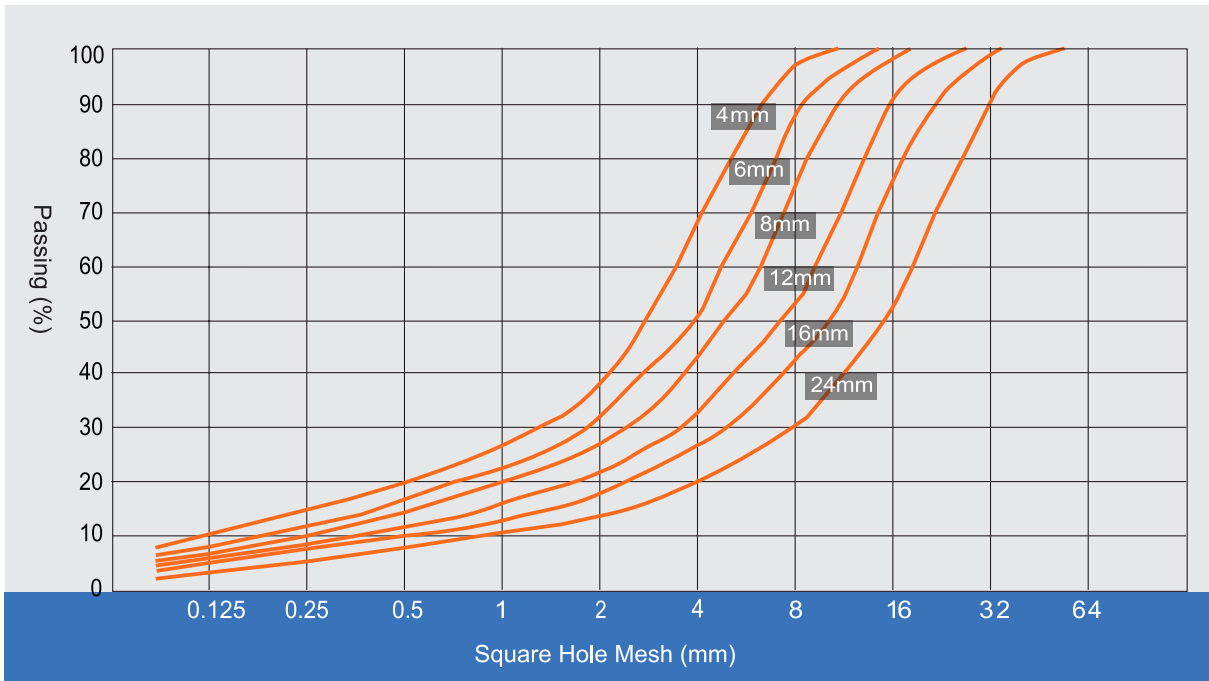
GPY100、GPY200、GPY300、GPY400

Model	Ecc (mm)	Max. Motor Power (kW)	CSS(mm) / Throughput Capacity (t/h)							
			8mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm
GPY100	20	90	45-50	50-55	65-75	90-100				
	25			50-60	70-85	100-115				
GPY200	25	160		85-105	105-125	125-150	155-175	180-205		
	32				135-155	165-185	185-215			
GPY300	32	250	100-120	110-140	155-185	185-215	220-250	255-285	290-320	
	40			140-160	195-225	235-265	280-310	315-345		
GPY400	36	280		150-180	200-240	260-285	290-320	330-265	370-400	410-440
	44				260-290	320-350	355-385	390-420	430-460	470-500

Remarks :
The above capacity of listed crusher is based on the rock with bulk density 1.6t/m³. The capacity will be affected by many factors such as selected eccentricity, crushing ratio, material hardness, feed particle size composition, moisture and slit content etc. For more information in details please contact us.

GRADATION CURVES (FINE CRUSHING)

GPY100、GPY200、GPY300、GPY400



The figure on the curves are for the discharging opening size and analysis of square hole.

CRUSHER CAVITY SELECTION

GPY100S、GPY200S、GPY300S、GPY400S、GPY100、GPY200、GPY300、GPY400

Model	Cavity	Feed opening (mm)	Max. Feed Size (mm)	Min. Setting (mm)
GPY100S	EC	250	200	25
GPY200S	EC	330	254	30
GPY300S	EC	380	304	30
GPY400S	EC	450	360	30
GPY100	EF	40	35	8
	F	50	40	8
	MF	100	80	13
	M	130	100	16
	EC	150	120	18
GPY200	F	70	60	10
	M	130	100	16
	C	165	130	20
	EC	210	155	25
GPY300	F	60	50	8
	MF	100	80	13
	M	130	100	16
	C	180	140	25
	EC	260	210	30
GPY400	MF	100	80	13
	M	130	100	16
	C	180	140	25
	EC	260	210	30

Remark : EF=Extra Fine F=Fine MF=Medium Fine M=Medium C=Coarse EC=Extra Coarse



TECHNICAL SPECIFICATIONS (SECONDARY CRUSHING) GPY500S、GPY650S、GPY800S

Model	Max. Motor Power(kW)	Cavity	Feed Opening (mm)	CSS(mm) / Throughput Capacity (t/h)									
				41mm	44mm	48mm	51mm	54mm	60mm	64mm	70mm	76mm	83mm
GPY500S	315	EC	560	349	410-460	530-588	670-718	810-856	880-929	930-978	1000-1050	920-983	604
GPY650S	450	EC	560		580-650	715-785	760-830	880-950	1030-1100	1180-1250	1380-1450	1450-1500	
GPY800S	600	EC	670		925-1000	1075-1150	1225-1300	1375-1450	1525-1600	1675-1750	1830-1900	1925-2000	

Remark : EC=Extra Coarse

TECHNICAL SPECIFICATIONS (FINE CRUSHING) GPY500、GPY650、GPY800、GPY1000

Model	Max. Motor Power (kW)	Cavity	Feed Opening (mm)	CSS(mm) / Throughput Capacity (t/h)												
				10mm	13mm	16mm	19mm	22mm	25mm	32mm	38mm	44mm	51mm	57mm	64mm	70mm
GPY500	315	EC	275			172	290-333	390-431	420-460	500-542	560-600	610-657	450-511			
		C	215			165-185	320-362	420-475	465-505	540-580	580-638	450-507	310-353			
		MC	175			210-248	350-421	410-450	440-480	500-550	430-494	300-360				
		M	135			250-290	390-435	425-465	455-495	455-497	340-398					
		MF	115		188	320-364	350-391	380-418	415-445	400-446	314-358					
		F	85		260-300	280-323	310-347	330-371	355-395	340-396	318					
		EF	65		250-288	270-311	250-293	250-290								
GPY650	450	EC	290			200-220	350-400	450-503	500-551	580-630	660-710	700-753	650-700			
		MC	180			300-350	440-490	460-510	520-565	570-617	540-590	580-630				
		MF	115		190-215	420-470	430-488	470-515	520-571	530-580	420-470					
		F	85		330-384	390-447	400-451	410-463	450-502	500-552						
GPY800	600	EEC	350					460-520	740-800	840-900	950-1010	1060-1120	1170-1230	1290-1350	1400-1450	1220-1280
		EC	300					520-584	780-844	900-963	1010-1065	1110-1167	1230-1286	1320-1388	1450-1506	1270-1326
		C	240				400	590-631	830-888	950-1013	1060-1120	1170-1227	1290-1352	1400-1460	1400-1456	1220-1281
		MC	195				380-435	660-718	770-832	890-950	990-1050	1090-1150	1210-1267	1310-1368	1310-1365	1140-1201
		M	155				500-563	720-780	780-836	890-948	990-1050	1090-1150	1210-1266	1310-1367	1180-1243	1030-1093
		MF	130			374-420	650-711	700-760	750-809	860-923	880-937	720-784	697			
		F	90		352-390	590-650	640-700	690-747	740-795	850-907	790-852	650-713				
GPY1000	750	EF	80	340-400	450-511	490-553	530-593	580-635	620-675	710-770	670-728	600-664				
		EC	370						390-454	1235-1304	1375-1441	1515-1580	1675-1740	1815-1878	1975-2038	2111-2176
		C	330					392	720-770	1335-1400	1485-1547	1630-1695	1803-1868	1955-2015	2123-2188	2075-2137
		MC	300				445-508	785-847	1165-1227	1335-1400	1485-1547	1630-1695	1803-1868	1955-2015	1935-2000	1665-1734
		M	230			262-306	600-665	885-946	1045-1101	1200-1256	1315-1390	1455-1521	1611-1676	1745-1810	1720-1795	1495-1560
		MF	160		200	445-509	620-685	855-916	910-975	1045-1112	1165-1230	1280-1347	1420-1485	1535-1602	1315-1391	1100-1165
		F	120		243-284	600-665	765-833	825-890	885-947	1015-1080	1100-1160	985-1046	755-822	555-620		
		EFX	100		355-418	595-661	645-710	695-758	745-807	870-921	925-990	825-891	635-700	465-528		
		EF	85	180-240	515-580	565-626	605-673	655-715	700-765	820-873	900-965	995-1058	1100-1165	945-1005	795-857	600-664
		EEF	75	405-470	495-560	535-603	585-648	625-692	675-737	775-841	785-850	695-756	510-575	412		

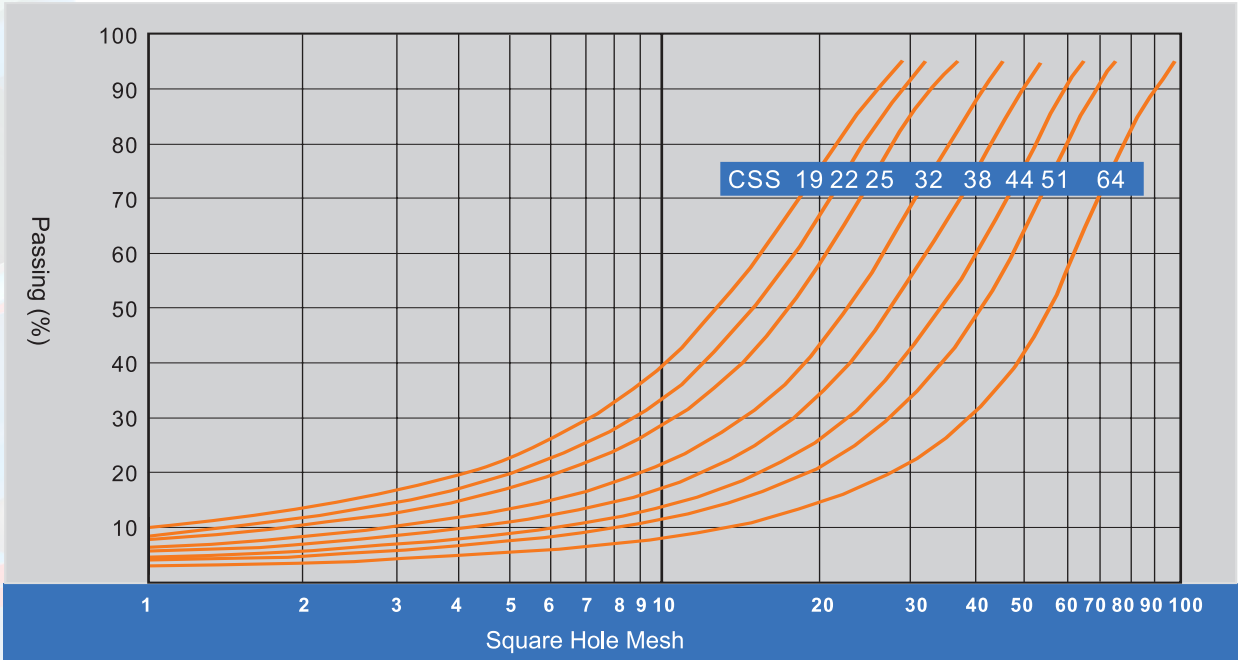
Remarks : EEF=Extra Extra Fine EF=Extra Fine EFX=Extra Fine Xtra F=Fine MF=Medium Fine M=Medium C=Coarse MC=Medium Coarse EC=Extra Coarse EEC=Exceed Extra Coarse

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GRADATION CURVES (SECONDARY CRUSHING)

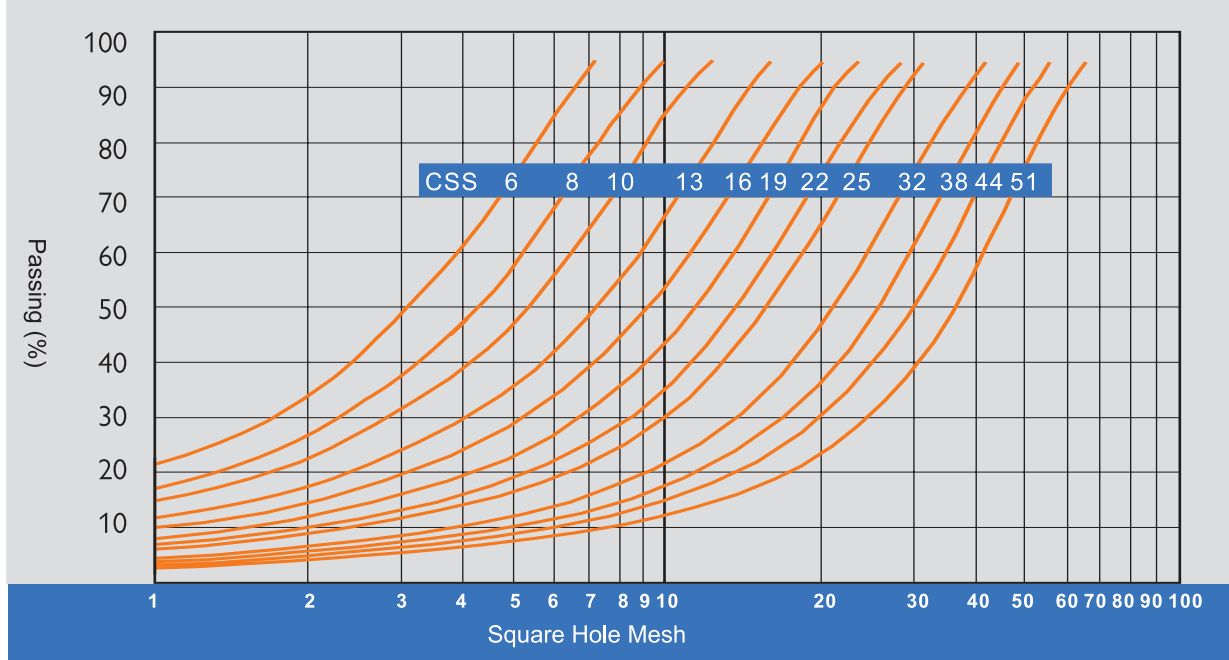
GPY500S、GPY650S



◦ The figure on the curves are for the discharging opening size and analysis of square hole.

GRADATION CURVES (FINE CRUSHING)

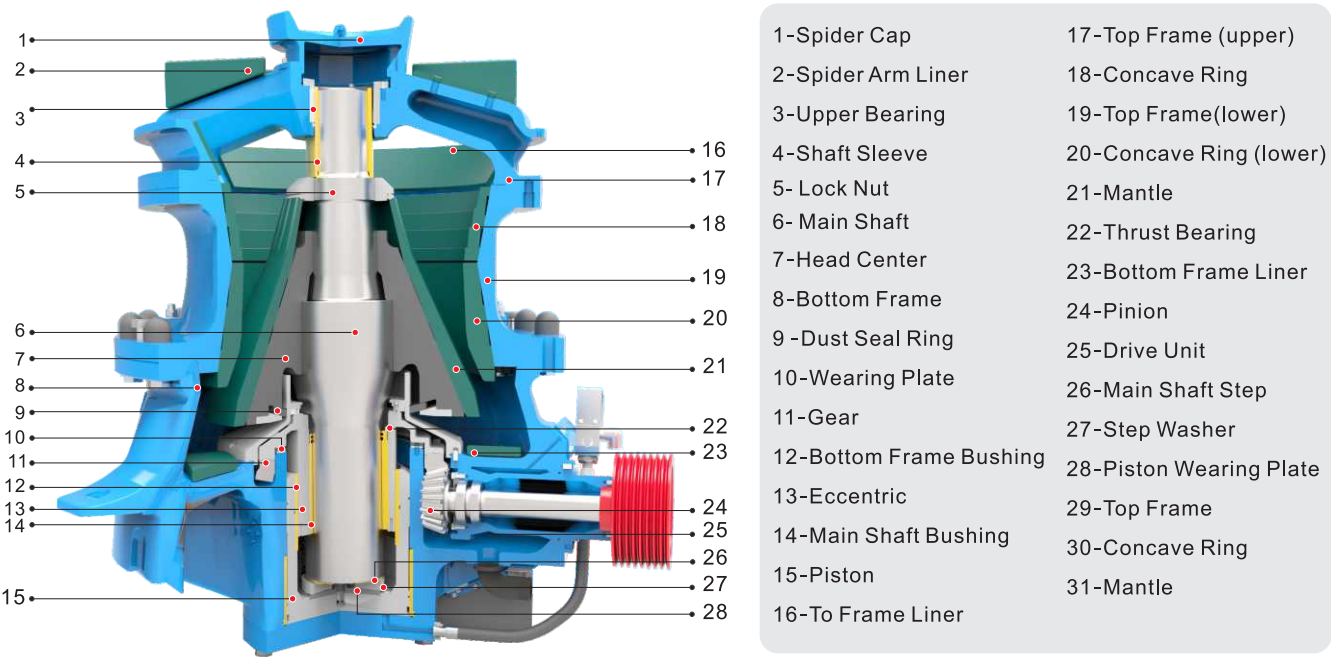
GPY500、GPY650、GPY800、GPY1000



◦ The figure on the curves are for the discharging opening size and analysis of square hole.

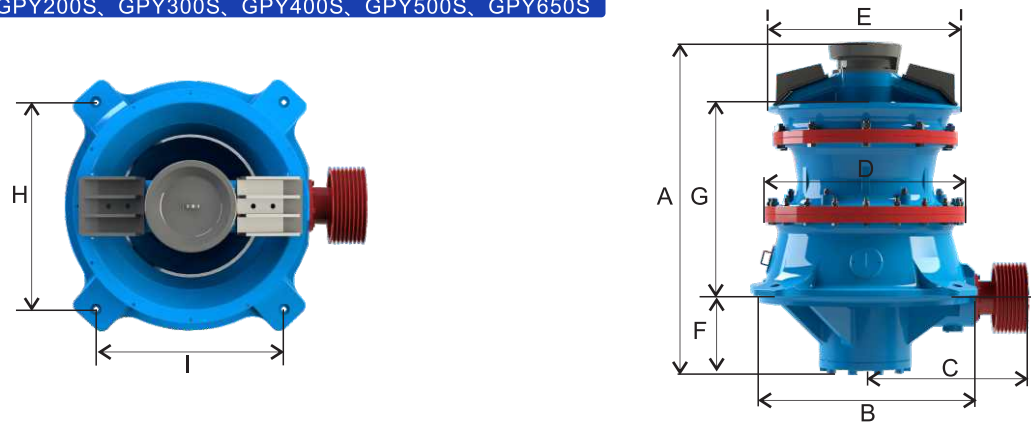
STRUCTURE (SECONDARY CRUSHING)

GPY100S, GPY200S, GPY300S, GPY400S, GPY500S, GPY650S



DIMENSION (SECONDARY CRUSHING)

GPY100S, GPY200S, GPY300S, GPY400S, GPY500S, GPY650S

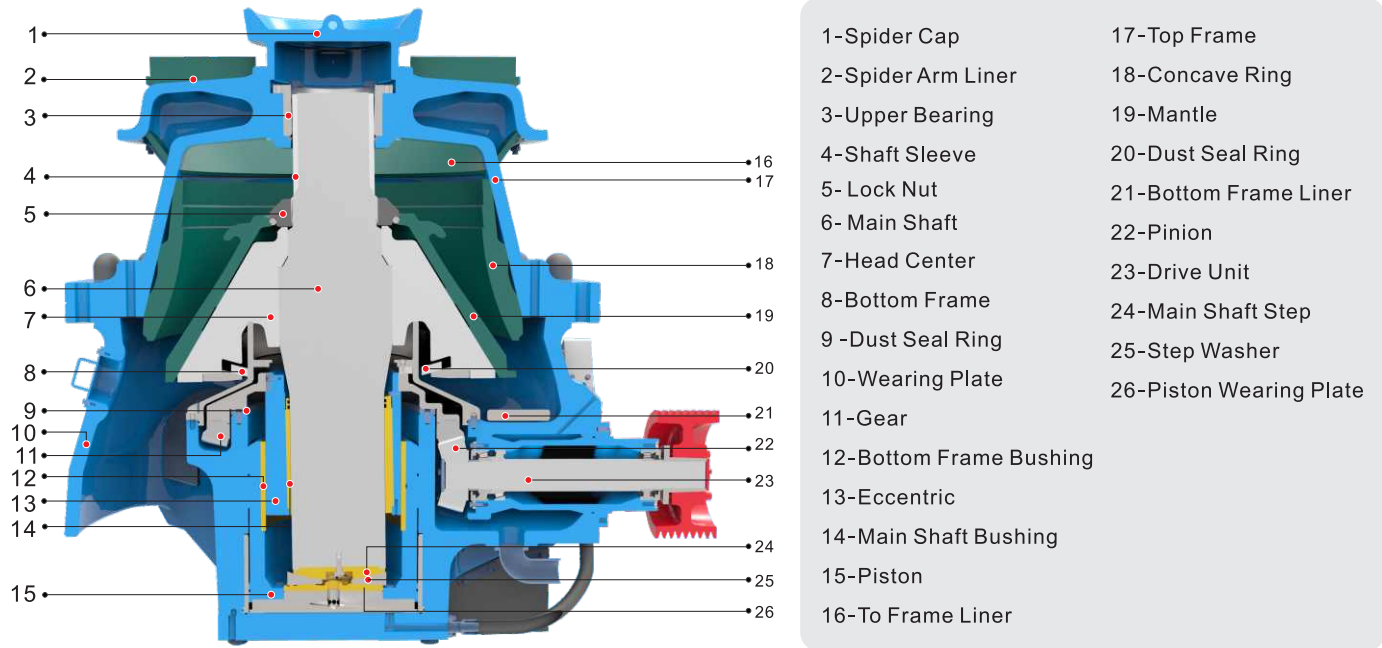


Size/Model	GPY100S	GPY200S	GPY300S	GPY400S	GPY500S	GPY650S
A	2288	2485	2607	3322	3995	4550
B	Φ1300	Φ1745	Φ1886	Φ2021	Φ2200	Φ3000
C	923	1224	1355	1525	1639	1800
D	Φ1320	Φ1540	Φ1860	Φ2060	Φ2200	Φ2450
E	Φ1350	Φ1475	Φ1690	Φ1990	Φ2520	Φ2575
F	703	610	689	1085	1008	1560
G	1309	1395	1450	1700	2279	2080
H	1400	1448	1700	1650	2103	1960
I	1090	1312	1400	1650	1528	1960

• The dimension is only for reference, for more information in details please check the outline drawing.

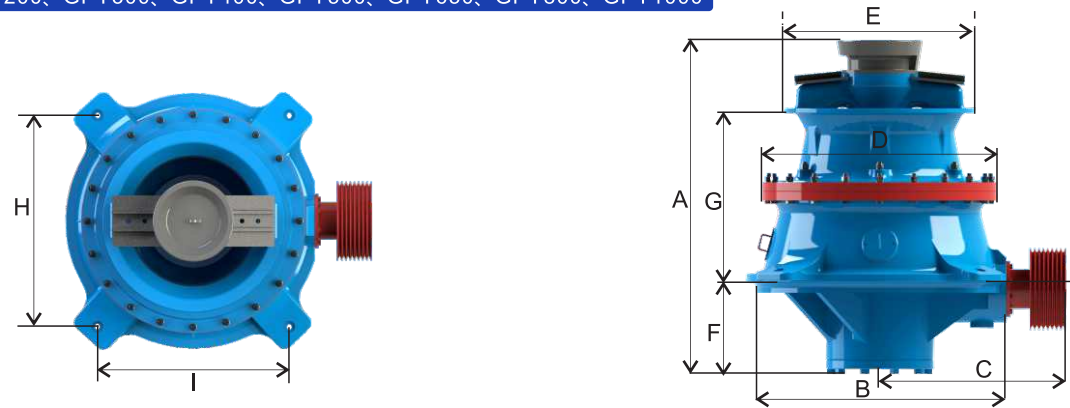
STRUCTURE (FINE CRUSHING)

GPY100, GPY200, GPY300, GPY400, GPY500, GPY650, GPY800, GPY1000



DIMENSION (FINE CRUSHING)

GPY100, GPY200, GPY300, GPY400, GPY500, GPY650, GPY800, GPY1000



Size/Model	GPY100	GPY200	GPY300	GPY400	GPY500	GPY650	GPY800	GPY1000
A	2038	2485	2242	2875	3131	3707	3959	3959
B	Φ1300	Φ1745	Φ1886	Φ2021	Φ2200	Φ3000	Φ2866	Φ3160
C	923	1224	1355	1525	1639	1800	1921	2072
D	Φ1320	Φ1540	Φ1860	Φ2060	Φ2200	Φ2450	Φ2600	Φ3100
E	Φ1350	Φ1245	Φ1480	Φ1640	Φ1970	Φ2000	Φ2290	Φ2765
F	703	610	689	1085	1008	1560	1180	1610
G	1029	1129	1143	1225	1415	1520	1838	2233
H	1400	1448	1700	1650	2103	1960	2323	2490
I	1090	1312	1400	1650	1528	1960	2323	2490

• The dimension is only for reference, for more information in details please check the outline drawing.

SPECIALIZED IN CONE CRUSHER DEVELOPMENT AND PRODUCTION FOR OVER 30 YEARS.

Constantly innovate and strive for perfection to create greater value for customers.
Make the applications of high-quality, high-capacity and high-performance cone
crushers scattered across the globe!