

# GP Series Single-Cylinder Hydraulic Cone Crusher

**Heavy-Duty Single-Cylinder Design:** Features a unique top-and-bottom frame design supported by a single hydraulic cylinder at the bottom, eliminating the complex upper frame components and providing ultimate mechanical stability and structural strength.

**Intelligent Hydraulic CSS Adjustment:** Allows real-time, dynamic adjustment of the discharge opening (CSS) even during full-load crushing operations, significantly reducing downtime and compensating for liner wear automatically.

**CLP (Constant Liner Performance) Cavity:** Designed with optimized, steep-angled crushing chambers that maintain a constant feed opening and crushing performance throughout the entire life cycle of the liners.

**Advanced Inter-Particle Crushing:** High-speed rotation combined with a large eccentric throw creates intense inter-particle crushing action, ensuring maximum throughput, high reduction ratios, and an exceptionally cubical final product.

**Dual Protection & Safe Passage:** The automated hydraulic system provides quick and safe overload protection, allowing uncrushable tramp iron to pass smoothly and automatically returning the piston to its original crushing position.



## Automated Smart Operation & Lubrication:

Every GP crusher is supplied with a highly integrated hydraulic system and a PLC touch-screen automation cabinet for continuous oil temperature, pressure, and wear monitoring. 100% genuine high-manganese liners and backup spare parts are available with fast worldwide response.

Model	Cavity Type	Feed Opening (mm)	Max. Feed Size (mm)	Min. Discharge Opening (mm)			Max. Discharge Opening (mm)			Motor Power (kw)	Theoretical Weight (t)
				Throw	Throw	Throw	Throw	Throw	Throw		
GP100				16	22		16	22		90	6
	A	150	120	12	15		39	37			
	B	130	105	10	11		33	31			
	C	100	80	7	9		33	30			
	D	40	32	5	6		31	29			
GP11				20	25		20	25		132	10.8
	A	200	160	18	21		35	30			
	B	120	95	15	18		35	30			
	C	80	60	8	11		35	30			
	D	40	32	5	7		35	30			
GP220				18	25		18	25		160	11.5
	A	220	180	18	22		35	30			
	B	150	120	15	19		35	30			
	C	80	60	9	12		35	30			
	D	40	32	6	8		35	30			
GP300				25	32		25	32	40	220	15
	A	230	190	20	25		45	40	35		
	B	150	125	17	20		45	40	35		
	C	80	60	10	13		40	35			
	D	40	32	6	8		40	35			
GP330				25	32		25	32	40	250	16.5
	A	230	190	20	25		45	40	35		
	B	150	125	17	20		45	40	35		
	C	80	60	10	13		40	35			
	D	40	32	6	8		40	35			
GP500				25	32	40	25	32	40	280	22.5
	A	230	180	22	26	30	50	45	40		
	B	150	120	19	22	26	48	43	38		
	C	100	80	12	14	16	40	35	30		
	D	50	40	8	10	12	30	25	20		
GP550				25	32	40	25	32	40	315	25.5
	A	230	180	22	26	30	50	45	40		
	B	150	120	19	22	26	48	43	38		
	C	100	80	12	14	16	40	35	30		
	D	50	40	8	10	12	30	25	20		
GP660				34	42	50	34	45	50	355	27
	A	280	220	22	26	30	45	35	30		
	B	150	125	19	22	26	45	35	30		
	C	80	80	12	14	16	35	30	25		

Model	Throw	Close Side Setting (mm)					Capacity (t/h)				
		8	12	16	20	25	30	35	40	45	50
GP100	16	35-40	45-55	55-65	65-75	75-85	90-100	105-115	115-135		
	22	45-50	55-65	65-75	75-90	85-105	100-125	115-135			
GP11	20	60-70	70-85	80-100	95-120	125-140	150-170	160-185	180-200		
	25		85-105	105-120	120-145	145-165	170-195	185-210			
GP220	18	65-75	75-90	85-105	100-125	135-150	160-175	170-190	190-220		
	25		90-110	110-130	125-155	160-180	185-210	200-230			
GP300	25	100-120	110-135	130-160	150-180	170-200	200-230	230-260	250-290	270-310	310-340
	32		130-150	160-200	180-220	200-250	230-280	260-310	280-320	300-340	
GP330	25	105-125	115-140	140-170	160-190	180-210	210-240	240-270	260-300	280-320	320-350
	32		140-160	170-210	190-230	210-260	240-290	270-320	290-330	310-350	
GP500	25	140-160	150-170	160-190	190-210	210-240	250-280	280-320	320-350	350-380	380-420
	32		200-220	220-250	250-280	380-300	300-330	340-390	390-440	440-480	
	40			250-270	270-300	300-330	330-380	390-440	450-510		
GP550	25	150-170	160-180	180-200	200-220	230-250	270-290	300-330	330-360	360-400	410-450
	32		210-230	230-260	260-290	290-310	320-350	360-410	410-450	450-500	
	40			270-290	290-320	320-350	360-410	410-470	480-550		
GP660	34		210-230	230-260	260-290	280-320	330-370	380-420	420-450	460-500	500-550
	42		240-270	270-300	300-340	340-390	410-450	470-520	530-570	570-620	
	50		280-310	320-350	360-390	400-450	460-510	510-560	560-610		

Model	Cavity Type	Feed Opening (mm)	Max. Feed Size (mm)	Min. Discharge Opening (mm)			Max. Discharge Opening (mm)			Motor Power (kw)	Theoretical Weight (t)
				Throw	Throw	Throw	Throw	Throw	Throw		
GP100S				16	22		16	22		75-90	8.3
	A	300	250	35	35		65	60			
	B	250	210	35	35		35	60			
GP200S				18	25		18	25		110-160	11.8
	A	330	280	27	30		65	60			
	B	250	210	25	28		60	55			
GP300S				25	32		25	32		160-250	20
	A	380	320	28	32		73	69			
	B	280	240	26	30		66	62			
GP500S				18	25	32	18	25	32	250-315	33
	A	500	420	50	55	60	80	75	70		
	B	380	320	40	45	50	70	65	60		

Model	Throw	Close Side Setting (mm)					Capacity (t/h)			
		35	40	45	50	55	60	65	70	75
GP100S	16	135-150	145-165	155-175	165-185	175-190	180-205			
	20	160-180	170-200	180-210	190-220	200-230	205-235			
GP200S	18	160-190	180-210	200-230	230-250	250-270	270-300			
	25	190-240	210-260	230-280	260-310	290-340	310-370			
GP300S	25	250-300	290-340	320-350	350-380	380-410	410-440	440-470		
	32	340-390	370-420	400-440	430-470	470-500	500-510	530-540		
GP500S	18			300-350	330-380	370-420	400-450	430-480	460-510	500-550
	25				500-550	550-600	600-650	650-700	700-750	750-800
	32				650-700	700-750	750-800	825-875	900-950	950-1000

Model	Throw	Close Side Setting (mm)					Capacity (t/h)			
		80	85	90	95	100	105	110	115	120
GP100S	16	230-250	240-260	250-270	260-280	270-290	290-310	200-220	210-230	220-240
	22	340-360	360-380	380-400	400-420	420-440	440-460	460-480	480-500	500-520
GP220S	18	340-370	360-390	380-420	400-450	420-480	440-510	460-540	480-570	500-600
	25	390-450	410-470	430-490	450-510	470-530	490-550	510-570	530-590	550-610
GP400S	25	530-560	560-590	590-620	620-650	650-680	680-710	710-740	740-770	770-800
	32	600-630	630-660	660-690	690-720	720-750	750-780	780-810	810-840	840-870
GP660S	18	540-590	580-630	620-670	660-710	700-750	740-790	780-830	820-870	860-910
	25	800-850	850-900	900-950	950-1000	1000-1050	1050-1100	1100-1150	1150-1200	1200-1250
	32	950-1000	1000-1050	1050-1100	1100-1150	1150-1200	1200-1250	1250-1300	1300-1350	1350-1400