HPY Cone Crusher Technical Parameters

This sheet summarizes the reference model range and capacity data for the **HPY Multi-cylinder Hydraulic Cone Crusher**. It is prepared for preliminary model screening, not as a fixed performance guarantee. Final selection should be checked with feed size, chamber type, CSS, screen opening, return load, rock hardness and moisture.

Basic Technical Scope

Item	Technical Reference
Product name	HPY Multi-cylinder Hydraulic Cone Crusher
Crushing stage	Secondary, tertiary and fine crushing
Applicable materials	Granite, basalt, diabase, river pebble, limestone, dolomite, iron ore, copper ore and other medium-hard to hard materials
CSS / discharge opening	6-64 mm tight-side discharge opening / closed side setting (CSS), depending on model and chamber type
Reference capacity	Approx. 20-3000 t/h by model, CSS and plant configuration
Typical models	HPY-100, HPY-200, HPY-300, HPY-400, HPY-500, HPY-800, HPY-1000, HPY-1250
Core configuration	Fixed main shaft, eccentric bushing, laminated crushing chamber, hydraulic CSS adjustment, tramp iron release and hydraulic clearing

Capacity Table Reading Notes

Selection factor	What to confirm before using the capacity table
CSS / discharge opening	Smaller CSS normally gives finer output, but may reduce throughput, increase liner wear and raise return load.
Feed grading	Stable and well-distributed feed keeps the chamber full; segregated feed or too many fines reduces efficiency.
Material hardness	Basalt, granite, diabase and metallic ore require attention to chamber selection, motor load and liner wear.
Screening circuit	Closed-circuit plants must match screen opening and return conveyor capacity; excessive return load reduces real capacity.

Capacity Data - CSS 6 to 25 mm

Unit: **t/h**. CSS refers to tight-side discharge opening / closed side setting in millimeters.

Model	6 mm	8 mm	10 mm	13 mm	16 mm	19 mm	22 mm	25 mm
HPY-100	20-50	30-60	40-70	65-90	50-80	70-95	75-100	80-110
HPY-200	40-70	60-100	80-120	130-180	110-150	140-190	150-200	160-220
HPY-300	-	100-130	110-140	170-220	145-185	190-240	200-260	220-280
HPY-400	-	115-150	130-175	220-280	180-230	240-320	270-345	280-370
HPY-500	-	140-170	170-220	270-360	225-290	310-400	335-430	350-450
HPY-800	-	-	235-330	370-500	300-420	420-540	450-590	490-710
HPY-1000	-	-	440-590	580-910	500-760	680-930	720-970	770-1000
HPY-1250	-	-	630-840	840-1300	720-1080	980-1320	1040-1380	1100-1430

Use this section for fine and medium crushing comparison. Smaller CSS settings may improve fine material generation, but also increase liner wear and circulation load in closed-circuit plants.

Capacity Data - CSS 32 to 64 mm

Unit: **t/h**. Wider CSS settings are usually used where higher throughput or coarser product is required.

Model	32 mm	38 mm	45 mm	51 mm	64 mm
HPY-100	90-130	-	-	-	-
HPY-200	180-235	200-250	-	-	-
HPY-300	240-320	295-380	340-440	-	-
HPY-400	310-430	360-490	400-550	450-630	-
HPY-500	390-530	435-600	500-680	560-760	-
HPY-800	530-780	580-920	660-1000	750-1150	-
HPY-1000	950-1220	1120-1350	1260-1450	1540-1820	1600-2100
HPY-1250	1360-1740	1600-1940	1800-2100	2200-2600	2600-3000

Model Capacity Summary

Model	Full listed capacity range	Listed CSS range	Selection note
HPY-100	20-130 t/h	6-32 mm	Small to medium capacity fine / medium crushing.
HPY-200	40-250 t/h	6-38 mm	Common smaller aggregate line model.
HPY-300	100-440 t/h	8-45 mm	Medium plant range; chamber choice affects output.
HPY-400	115-630 t/h	8-51 mm	Higher capacity aggregate or ore crushing.
HPY-500	140-760 t/h	8-51 mm	Large aggregate plant or mining circuit.
HPY-800	235-1150 t/h	10-51 mm	High-capacity hard rock line.
HPY-1000	440-2100 t/h	10-64 mm	Very large plant selection.
HPY-1250	630-3000 t/h	10-64 mm	Large mining / aggregate systems.

Important note: *Values are technical references. Actual output depends on material density, feed grading, moisture, chamber selection, CSS, liner condition, screen size and circuit type.*

Data basis: user-provided HPY technical parameter table, cross-checked with public HPY cone crusher product information on fixed-shaft structure, laminated crushing, multi-chamber selection, hydraulic protection and automation control.