Cone Crusher Model Specifications and Capacity Reference

Basic model data and reference capacity ranges for single cylinder hydraulic cone crushers. Final selection should be confirmed according to material hardness, feed grading, CSS, chamber type and plant configuration.

Basic Model Specifications

This table provides core model data used for preliminary machine selection: feed port size, minimum discharge opening, recommended maximum motor power and machine weight.

Model	Feed Port Size (mm)	Minimum Discharge Opening (mm)	Recommended Max Motor Power (kW)	Machine Weight (t)
HD100	50	10	90	6.5
HD100S	200	20	90	8.0
HD200	70	10	160	10.5
HD200S	250	25	160	12.0
HD300	130	15	220	14.5
HD300S	280	25	220	18.0
HD500	220	25	400	29.0
HD500S	380	50	400	35.0
HD800	450	25	560	63.0
HD800S	560	50	630	68.0

Selection note: Motor power, machine weight and feed opening should be checked together with feed size, CSS and chamber selection. Model selection should not be based on capacity alone.

Reference Capacity by Tight-Side Discharge Opening

Capacity ranges below are reference values under different tight-side discharge openings. Actual output can change with feed grading, material hardness, moisture content, liner condition and crushing chamber configuration.

Model	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	45 mm	50 mm	60 mm	70 mm	80 mm
HD100	45-55	60-70	80-90	85-95	-	-	-	-	-	-	-
HD100S	-	80-90	-	105-115	-	120-130	145-165	155-175	-	-	-
HD200	70-90	80-105	100-125	135-150	-	160-175	185-200	-	-	-	-
HD200S	-	-	-	110-140	-	140-170	180-210	200-230	230-260	-	-
HD300	-	135-155	160-180	190-210	210-235	240-260	-	-	-	-	-
HD300S	-	-	-	170-190	170-210	210-255	235-275	255-296	-	-	-
HD500	-	-	-	240-260	270-290	350-370	-	-	-	-	-
HD500S	-	-	-	-	-	-	-	325-375	400-450	450-500	600-800
HD800	-	-	-	400-540	600-900	800-990	900-1100	1000-1200	-	-	-
HD800S	-	-	-	-	-	-	-	950-1300	1100-1500	1200-1650	1300-1900

Unit: t/h. A dash means the capacity is not listed for that discharge opening in the provided specification data. Use this table for preliminary selection only; final capacity should be checked against the actual application.

How to Read the Specification Data

Feed port size defines the maximum entry condition for material after primary crushing. Oversized or poorly graded feed can reduce stable capacity and increase liner stress.

Minimum discharge opening indicates the lower discharge-control range for the model. It should be matched with the target output size and screening system.

Recommended max motor power should be reviewed with crushing chamber, liner configuration and actual feed condition. Higher power does not automatically mean higher usable capacity.

Reference capacity changes with tight-side discharge opening. A smaller discharge opening normally supports finer output but can increase power load, wear rate and recirculating load in a closed-circuit plant.

Buyer Check Point	What to Confirm Before Order
Material condition	Granite, basalt, limestone, river pebble, ore; hardness and abrasiveness
Feed preparation	Maximum feed size, feed grading, moisture and fines content
Output target	Required product size, screen opening and closed-circuit return load
Model selection	Feed port size, CSS, chamber type, motor power and liner plan
Operation control	Even feeding, lubrication, hydraulic clearing and liner wear monitoring

Practical use: The two specification tables should be placed near the top of the product page, immediately after the product overview. They are core decision data for engineers and purchasing teams.