Impact Service Corp.
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ISC® VSI Crusher Models and Capacities

Model (1)		28	41	55	66	66	72	77	77	82	92	103	130
Crushing Chamber Series (2)		20	40	50	60	70	70	70	80	80	90	100	130
Maximum Feed Size (3)	Inches	0.75	1.5	2	2.5	3	3	3	4	4	6	8	12
	MM	19.05	38.10	50.80	63.50	76.20	76.20	76.20	101.60	101.60	152.40	203.20	304.80
Maximum Feed Partical Weight (4)	Lbs	0.017	0.137	0.324	0.633	1.094	1.094	1.094	2.593	2.593	8.750	20.741	70.000
	Kgs	0.007	0.062	0.146	0.287	0.496	0.496	0.496	1.176	1.176	3.968	9.407	31.751
TPH total thruput (5)	STPH	5	75	150	250	250	250	300	400	500	600	800	1200
	MTPH	4.535	68.038	136.077	226.796	226.796	226.796	272.155	362.873	453.592	544.310	725.747	1088.621
Maximum Single Electric HP (6)	HP	15	100	150	250	250	250	400	400	500	500	600	800
	kW	3.7	74.6	111.9	186.5	186.5	186.5	223.8	223.8	373.0	373.0	447.6	596.8
Maximum Dual Electric HP (6)	HP	N/A	N/A	200	300	300	300	500	500	600	800	900	1200
	kW	N/A	N/A	149.2	223.8	223.8	223.8	373.0	373.0	447.6	596.8	671.4	895.2
Crusher Weight (7)	Lbs	2,012	5,612	8,624	18,482	18,573	21,465	27,909	28,851	38,792	48,102	60,171	92,443
	Kgs	912.6	2,545.6	3,911.8	7,987.8	8,224.6	9,736.4	12,659.3	13,086.6	17,595.8	21,818.7	27,293.1	41,931.4

Notes:

(1) Model number denotes nominal tub outside diameter in inches.

(2) Denotes series of crushing chamber and size of cast replacement wear parts.

(3) Denotes maximum feed size longest dimension.

(4) Maximum feed size particle weight can vary depending on the crushing chamber configuration, impeller table speed and feed material specific gravity.

(5) Total thruput ratings vary with feed material characteristics, crusher feed size, desired product size, crushing chamber configuration, impeller table speed and available horsepower.

(6) Horsepower requirements vary with feed material characteristics, crusher feed size, desired product size, crushing chamber configuration, impeller table speed and crusher thruput capacity.

(7) Weight shown is for single electric crusher configuration without drive motor.

(8) VSI Crushers are applied first by the feed size longest dimension and then by the required thruput capacity (TPH) which assures adequate mass of the internal crushing components for the application. Additionally the feed material type and the desired products need to be considered. Available crushing chamber configurations and designs will also influence the model choice. Typically larger models operate at a lower cost per ton than the smaller models so is generally suggested to consider moving up to the next larger model size (where applicable) for a lower operating cost.

(9) When determining horsepower it is suggested to evaluate the total required TPH through the crusher, desired product size, and the feed material characteristics. Horsepower is simply a function of the required crusher throughput tonnage. Most appplications use a factor of 1.2 HP to 1.4 HP required per Ton thru the crusher, in fine grinding applications the HP/Ton ratio can be as high as 2.0 HP/Ton and in some secondary applications the ratio can be as low as 1.0 HP/Ton or less.

(10) Speed is the key to wear and gradation results, we always encourage the slowest possible speed for the greatest wear life while producing the desired gradation and production results.

(11) Due to ongoing technological improvements, the above specifications are subject to change without notice.

(12) Consult factory for assistance with model size selection and application guidelines.

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