

The following table was used as a proxy to derive the screen analysis for the Lippmann 50" x 62" jaw crusher. Although it is provided by another manufacturer (Telsmith: <http://www.telsmith.com/files/Mineral-Processing-Handbook.pdf>) the screen analysis of the crusher product will be very close, if not the same, given the same feed, jaw dyes, close side setting, speed, and comparable dimensions of the Lippmann version. Additionally, since this is the primary crusher, it has very little influence on the final product mix, which is predominantly influenced by the secondary and tertiary stages of crushing.

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SCREEN ANALYSIS OF PRODUCT FROM TELSMITH JAW CRUSHER (OPEN CIRCUIT)

TELSMITH

Sieve Designation Standard			Closed Side Setting									Sieve Designation Standard		
US	mm	Decimal	4"	5"	6"	7"	8"	10"	12"	14"	US	mm	Decimal	
21"	533.0	21.00	(% Passing)									21"	533.0	21.00
20"	508.0	20.00										21"	533.0	21.00
18"	457.0	18.00										20"	508.0	20.00
16"	406.0	16.00										18"	457.0	18.00
14"	356.0	14.00	16"	406.0	16.00	14"	356.0	14.00	14"	356.0	14.00			
13"	330.0	13.00	13"	330.0	13.00	12"	305.0	12.00	13"	330.0	13.00			
12"	305.0	12.00	12"	305.0	12.00	11"	279.0	11.00	12"	305.0	12.00			
11"	279.0	11.00	11"	279.0	11.00	10"	254.0	10.00	11"	279.0	11.00			
10"	254.0	10.00	10"	254.0	10.00	9"	229.0	9.00	10"	254.0	10.00			
9"	229.0	9.00	9"	229.0	9.00	8"	200.0	8.00	9"	229.0	9.00			
8"	200.0	8.00	8"	200.0	8.00	7"	175.0	7.00	8"	200.0	8.00			
7"	175.0	7.00	7"	175.0	7.00	6"	150.0	6.00	7"	175.0	7.00			
6"	150.0	6.00	6"	150.0	6.00	5"	125.0	5.00	6"	150.0	6.00			
5"	125.0	5.00	5"	125.0	5.00	4 1/2"	112.5	4.50	5"	125.0	5.00			
4 1/2"	112.5	4.50	4 1/2"	112.5	4.50	4"	100.0	4.00	4 1/2"	112.5	4.50			
4"	100.0	4.00	4"	100.0	4.00	3 1/2"	90.0	3.50	4"	100.0	4.00			
3 1/2"	90.0	3.50	3 1/2"	90.0	3.50	3"	75.0	3.00	3 1/2"	90.0	3.50			
3"	75.0	3.00	3"	75.0	3.00	2 1/2"	63.0	2.50	3"	75.0	3.00			
2 1/2"	63.0	2.50	2 1/2"	63.0	2.50	2"	50.0	2.00	2 1/2"	63.0	2.50			
2"	50.0	2.00	2"	50.0	2.00	1 1/2"	37.5	1.50	2"	50.0	2.00			
1 1/2"	37.5	1.50	1 1/2"	37.5	1.50	1 1/4"	31.5	1.25	1 1/2"	37.5	1.50			
1 1/4"	31.5	1.25	1 1/4"	31.5	1.25	1"	25.0	1.00	1 1/4"	31.5	1.25			
1"	25.0	1.00	1"	25.0	1.00	3/4"	19.0	0.75	1"	25.0	1.00			
3/4"	19.0	0.75	3/4"	19.0	0.75	1/2"	12.5	0.50	3/4"	19.0	0.75			
1/2"	12.5	0.50	1/2"	12.5	0.50	3/8"	9.5	0.375	1/2"	12.5	0.50			
3/8"	9.5	0.375	3/8"	9.5	0.375	4M	4.75	0.187	3/8"	9.5	0.375			
4M	4.75	0.187	4M	4.75	0.187	8M	2.36	0.094	4M	4.75	0.187			
8M	2.36	0.094	8M	2.36	0.094				8M	2.36	0.094			

3-7 JAW CRUSHERS

SPECIFICATIONS

HEAVY-DUTY JAW CRUSHERS

TYPE	VB 46	VB 52	VB 57	VB 67	VB 85	VB 98-06
Size of feed opening (mm)	460 x 250	600 x 250	570 x 300	670 x 410	850 x 530	800 x 600
Motor Horsepower	25-50	50-60	30-40	50-60	60-75	60-75
Speed (R.P.M.)	450	350	350	350	300	300
Adjustments Min-Max (mm)	30-80	30-60	40-100	50-120	70-150	70-150
Approx. Wt. (kg)	3650	7600	5950	8200	15000	15000
Lbs.	8045	16755	13115	18090	33070	33070

TYPE	VB 93	VB 10-08	VB 11-09	VB 13-11	VB 150	VB 16-14
Size of feed opening (mm)	930 x 620	1000 x 800	1130 x 900	1330 x 1100	1500 x 1200	1600 x 1400
Motor Horsepower	75-100	100-125	125-150	160-220	220-275	275-340
Speed (R.P.M.)	250	220	225	200	180	180
Adjustments Min-Max (mm)	90-150	90-200	110-220	130-250	150-250	140-280
Approx. Wt. (kg)	21460	25000	33800	50500	91000	91000
Lbs.	47312	55115	74075	111350	200620	200220

*Horsepowers are electric

CAPACITIES-GRADATION

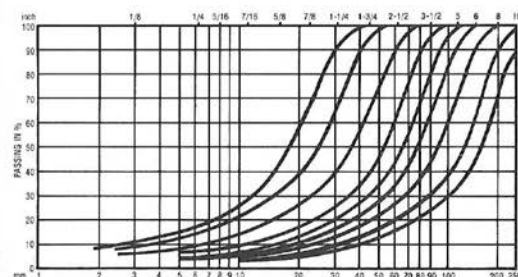
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JAW CRUSHER CAPACITY

DISCHARGE SETTING	IN.	MM	VB 46	VB 52	VB 57	VB 67	VB 85	VB 98-06	VB 93	VB 10-08	VB 11-09	VB 13-11	VB 150	VB 16-14
			1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
1 1/2"	30	760	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25	20-25
2"	50	1250	30-40	30-40	30-40	30-40	30-40	30-40	30-40	30-40	30-40	30-40	30-40	30-40
3"	75	1875	50-65	50-65	50-65	50-65	50-65	50-65	50-65	50-65	50-65	50-65	50-65	50-65
4"	100	2500	70-85	70-85	70-85	70-85	70-85	70-85	70-85	70-85	70-85	70-85	70-85	70-85
5"	125	3125	90-110	90-110	90-110	90-110	90-110	90-110	90-110	90-110	90-110	90-110	90-110	90-110
6"	150	3750	105-130	105-130	105-130	105-130	105-130	105-130	105-130	105-130	105-130	105-130	105-130	105-130
7"	175	4375	120-150	120-150	120-150	120-150	120-150	120-150	120-150	120-150	120-150	120-150	120-150	120-150
8"	200	5000	135-165	135-165	135-165	135-165	135-165	135-165	135-165	135-165	135-165	135-165	135-165	135-165
9"	225	5625	150-180	150-180	150-180	150-180	150-180	150-180	150-180	150-180	150-180	150-180	150-180	150-180
10"	250	6250	165-200	165-200	165-200	165-200	165-200	165-200	165-200	165-200	165-200	165-200	165-200	165-200
11"	275	6875	180-220	180-220	180-220	180-220	180-220	180-220	180-220	180-220	180-220	180-220	180-220	180-220

Capacities listed are average based on dry, free crushing rock at 160 lbs. per cubic foot. Tonnage will vary depending on size of feed, rate of feed, operating conditions, breaking characteristics of the rock. Column 1 — STPH, Column 2 — MTPH.

GENERAL PRODUCT ANALYSIS



Average screen analysis curves obtained when handling hard materials.

The adjacent picture shows the pages from the Norberg Reference Manual depicting the screen analysis of the product from jaw crushers at various close side settings. Examination of the curves on the graph will provide a very similar screen analysis result to the Telsmith ones above.