



LIBERTY[®] JAW CRUSHER

Demanding Applications Need a Jaw Crusher Designed to Handle Tough Production Requirements.

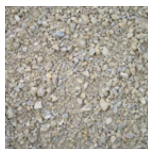
FEATURES

- » Bolted, non-welded frame construction with premium quality castings and components.
- » Hydraulic wedge adjustment allows for push button control of closed side settings.
- » Aggressive nip angle ensures the jaw consistently processes material and maintains capacity throughout liner life.
- » Mid-mount frame ensures compact installation.

APPLICATIONS



Ore/Hard
Rock Mining



Quarried
Stone



River
Gravel

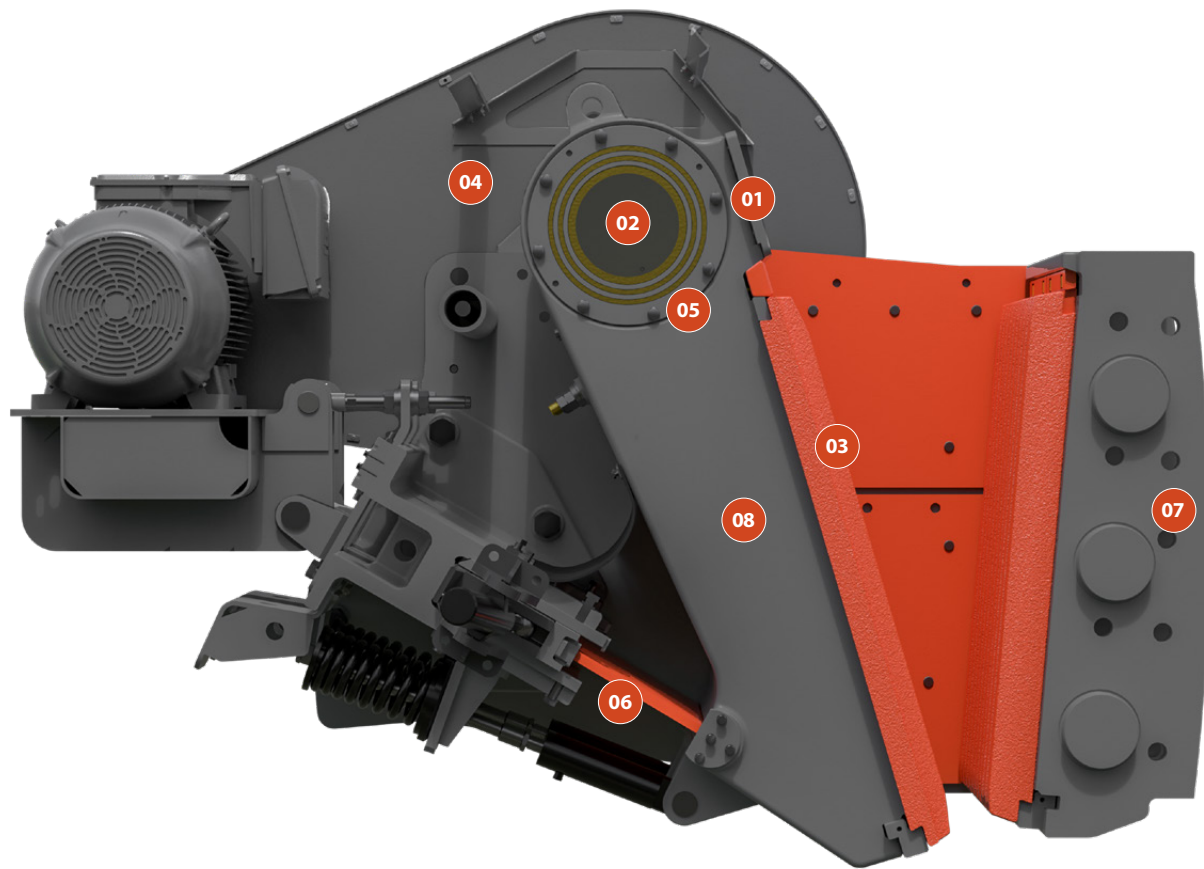


Recycle
Concrete

Wheeled 
Stationary 

Rock Face to Load Out[®]





01/ REPLACEABLE BARREL LINER

Easily replaced and designed to protect the bearings and pitman housing.

02/ HIGH STRENGTH ECCENTRIC SHAFT

This hardest working component is precision CNC-machined for proven high strength and reliability.

03/ MINE DUTY JAW DIES

Offering different liner configurations expands the application window for the crusher.

04/ SOLID CAST, HIGH INERTIA FLYWHEELS

Optimized design to generate the crushing force required for the toughest and hardest materials.

05/ SPHERICAL ROLLER INBOARD/ OUTBOARD BEARINGS

Ensures the maximum performance providing the lowest cost of ownership.

06/ HIGH STRENGTH TOGGLE PLATE

Provides the correct protection of the crusher to ensure performance and long term durability.

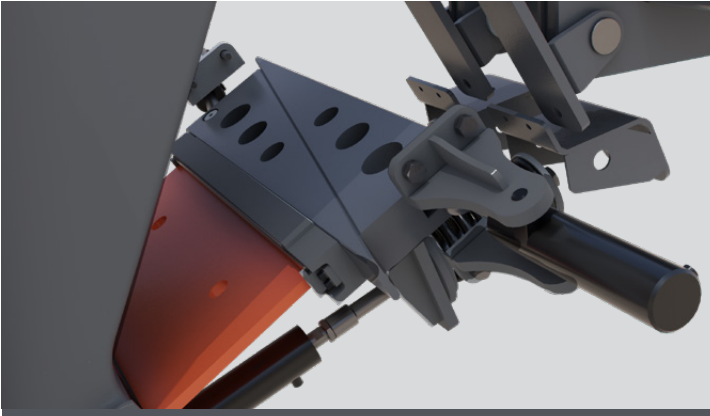
07/ HIGH STRENGTH SOLID CASTING

Cast structural components, including end frames and a one-piece pitman, and patented fixed jaw frame for a high strength machine.

08/ ONE-PIECE CAST PITMAN

High strength solid casting.

HIGHLIGHTS



HYDRAULIC WEDGE ADJUSTMENT

- » Single push button hydraulically allows operators to adjust closed side settings.



JAW DIE LIFTING POINTS

- » Integrated into the dies versus unsafe welded options, which can break from the dies.



AGGRESSIVE NIP ANGLE

- » Jaw consistently processes material and maintains strong capacity through liner life.



PITMAN TOE PROTECTION

- » Replaceable component for protection and to eliminate long periods of downtime for re-machining.



COMPOSITE DRIVE GUARD

- » Designed for a single crew member to remove guarding for simplified access to drive.

**2-YEAR/
6000 HR
WARRANTY**

SPECIFICATIONS

LIBERTY JAW GENERAL SPECIFICATIONS

Model	Weight		Feed Opening		CSS		Capacity		Speed	Max Feed Size		Power	
	kg	lbs	mm x mm	in x in	mm	in	mtph	stph	rpm	mm	in	kW	hp
2155B	16,500	36,400	530 x 1,400	21 x 55	40 - 130	1.6" - 5.1"	90 - 400	100 - 440	280	427	16.8"	110	150
2636B	14,050	31,000	650 x 900	26 x 36	60 - 160	2.4" - 6.3"	110 - 360	120 - 396	300	528	20.8"	75	100
3042B	15,700	34,600	750 x 1,070	30 x 42	70 - 200	2.75" - 8"	150 - 500	165 - 550	280	610	24.0"	110	150
3343B	22,300	49,200	830 x 1,100	33 x 43	80 - 200	3.2" - 8"	180 - 620	200 - 680	270	671	26.4"	110	150
3055B	26,950	59,000	760 x 1,400	30 x 55	70 - 200	2.75" - 8"	240 - 780	265 - 855	260	610	24.0"	160	200
3455B	31,500	69,445	860 x 1,400	34 x 55	100 - 200	4" - 8"	320 - 800	353 - 880	250	691	27.2"	160	200
3448B	28,000	62,000	860 x 1,220	34 x 48	70 - 200	2.75" - 8"	170 - 560	185 - 615	230	691	27.2"	160	200
4051B	42,000	92,600	1,010 x 1,300	40 x 51	100 - 200	4" - 8"	290 - 880	320 - 970	230	813	32.0"	160	200
4655B	52,500	115,800	1,160 x 1,400	46 x 55	150 - 250	6" - 10"	400 - 900	440 - 990	230	935	36.8"	200	300
5165B	71,250	157,100	1,290 x 1,650	51 x 65	150 - 270	6" - 10.5"	550 - 1,100	605 - 1,210	220	1,036	40.8"	250	350
6080B	135,000	297,000	1,525 x 2,030	60 x 80	200 - 300	8" - 12"	700 - 1,450	770 - 1,595	200	1,219	48.0"	400	500

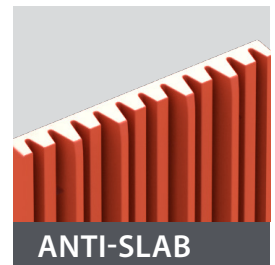
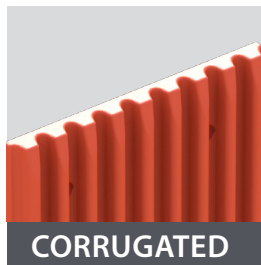
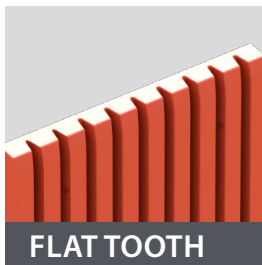
PERCENT PASSING FOR A GIVEN CLOSED SIDE SETTING - AVERAGE FEED MATERIAL (12-14 work index)

in	mm	1.5"	2"	2.5"	3"	3.5"	4"	5"	6"	7"	8"	10"	11"	12"	
		(38mm)	(50mm)	(63mm)	(76mm)	(88mm)	(101mm)	(127mm)	(152mm)	(177mm)	(203mm)	(254mm)	(279mm)	(304mm)	
18	457													100%	100%
16	406											100%	98	94	
14	355											98	90	83	
12	304										100%	84	77	70	
10	254								100%	100%	88	70	64	58	
8	203							100%	94	80	70	56	51	47	
7	177							94	82	70	61	49	45	41	
6	152					100%	100%	82	70	60	53	42	38	35	
5	127				100%	99	87	70	58	50	44	35	32	29	
4	101		100%	100%	92	80	70	56	47	40	35	28	25	23	
3	76	100%	95	83	70	60	53	42	35	30	27	21	19	18	
2.5	63	95	85	70	59	50	44	35	29	25	22	18	16	15	
2	50	85	70	57	48	40	35	28	24	20	18	14	13	12	
1.5	38	69	52	42	35	30	26	21	18	15	14	11	10	9	
1	25	44	34	28	23	20	17	14	12	10	9	7	7	6	
0.75	19	32	25	21	18	15	13	11	9	8	7	5	5	5	
0.5	12	22	18	15	12	10	9	7	6	5	5	4	4	3	
0.25	6	12	10	8	6	5	5	4	3	3	2	2	2	1	

Feed size is determined by measuring the longest one-way dimension of the material sample.

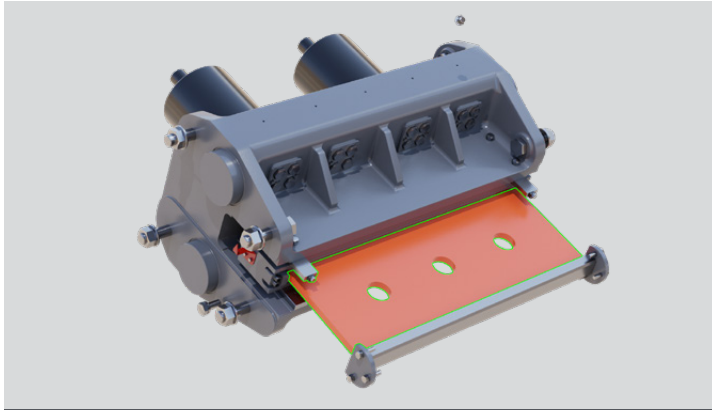
Projected crusher capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft³ (1.6 mt/m³). The feed grading must have less than 10% passing the crusher setting. The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely. For secondary cone crusher applications to be used in closed circuit applications consult Superior for capacity adjustments.

MULTIPLE LINER CONFIGURATIONS



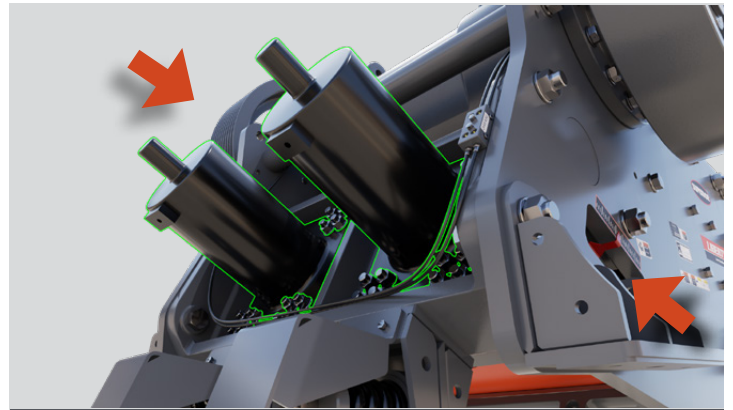
HYDRAULIC TOGGLE SYSTEM

FEATURES



HYDRAULIC TOGGLE PLATE

» Allows uncrushable materials to pass through the crusher, protecting major components from damage.



HYDRAULIC CLOSED SIDE SETTING ADJUSTMENT

» A simple push button allows operator to adjust CSS hydraulically.

SPECIFICATIONS

LIBERTY JAW MODELS WITH HYDRAULIC TOGGLE OPTION

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4051B	42,000	92,600	1,010 x 1,300	40 x 51	100-200	4"-8"	290-880	320-970	230	813	32.0"	160	200