



# LIBERTY<sup>®</sup> JAW CRUSHER

Primary Compression Crusher Used in Quarry or Recycle Applications.

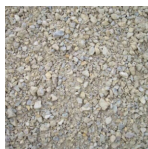
## FEATURES

- » Rugged, fabricated frame and pitman assembly extend life in harsh applications.
- » Frame-Mounted motor creates easier access to drive components.
- » Hydraulic tension rod and wedge adjustments allow for quick and safe setting changes.
- » Industry-leading two-year warranty is standard.

## APPLICATIONS



Ore/Hard  
Rock Mining



Quarried  
Stone



River  
Gravel



Recycle  
Concrete

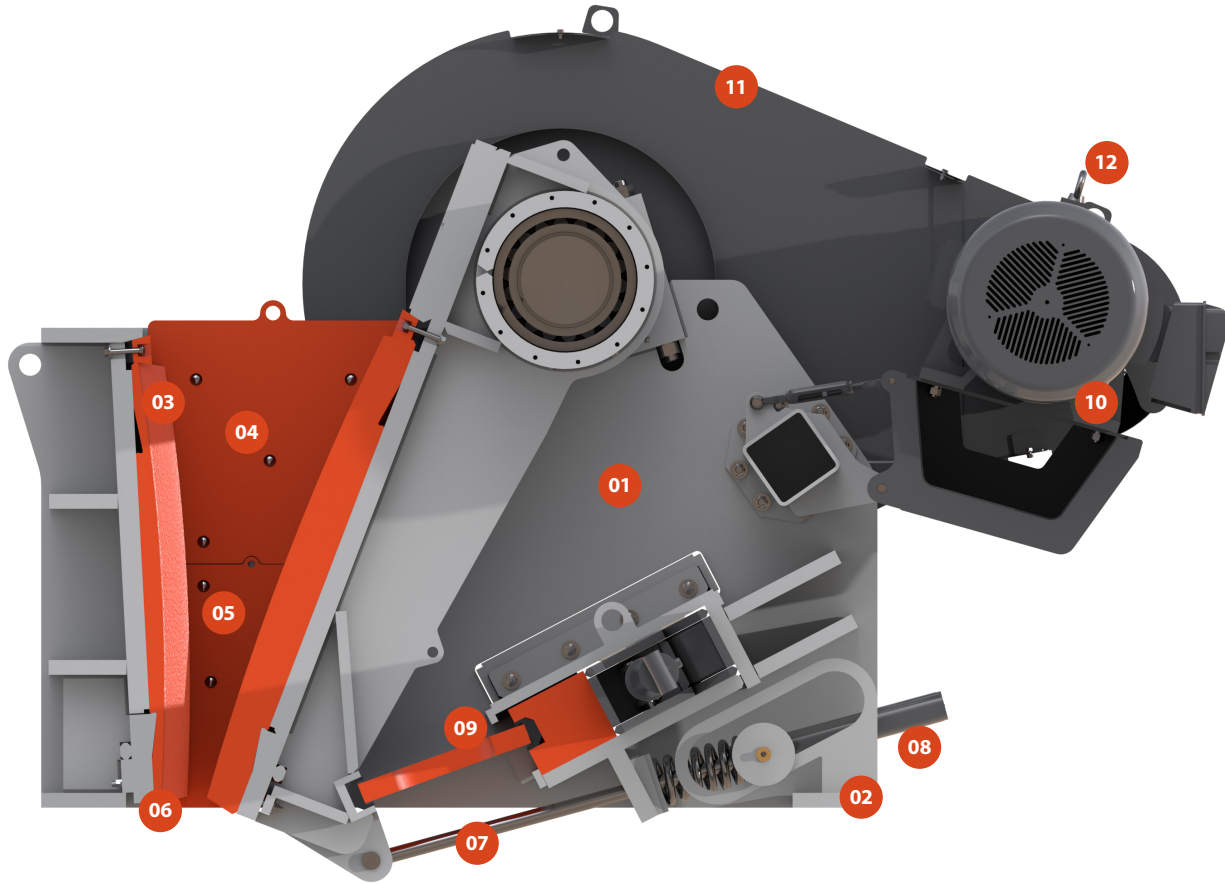


Recycled  
Asphalt

Wheeled   
Stationary 

Rock Face to Load Out™





**01/ HEAVY DUTY WELDED FRAME**

Equipped with stress relieved components, the fully-fabricated base frame is designed for durability.

**02/ MID-MOUNT BASE FRAME**

Ideal for portable and track applications, the mid-mount option ensures compact installation within a chassis.

**03/ PITMAN BARREL WEAR PLATE**

Welded in plates protect a common wear area at the top of the chamber.

**04/ RIB-REINFORCED SIDE PLATES**

Manufactured with shock resistant low carbon steel, the jaw will withstand high crushing forces.

**05/ AGGRESSIVE NIP ANGLE**

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

**06/ PITMAN TOE PROTECTION**

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

**07/ HIGH STRENGTH PITMAN SHAFT**

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

**08/ HYDRAULIC TENSION SYSTEM**

Automatically maintains tension without the need for manual adjustment.

**09/ HYDRAULIC WEDGE ADJUST**

Single push button hydraulically allows operators to adjust closed side settings. (Manual shim available).

**10/ FRAME-MOUNTED MOTOR**

Reduces footprint, frees up deck space and allows easier access to the drive components.

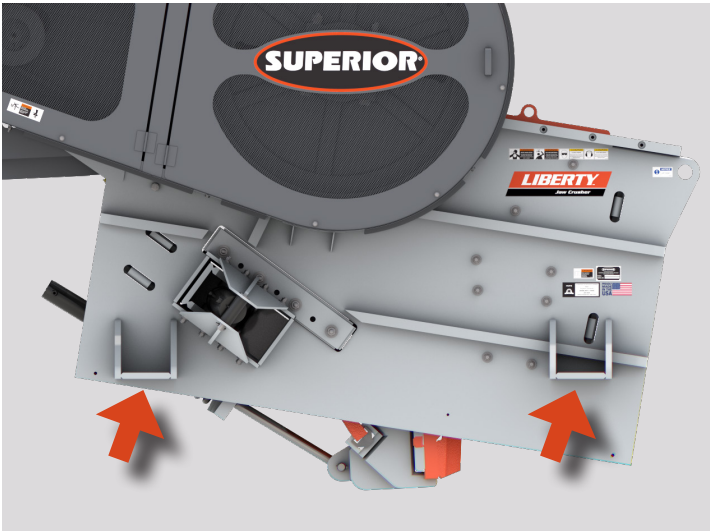
**11/ MULTI-PIECE DRIVE GUARD**

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

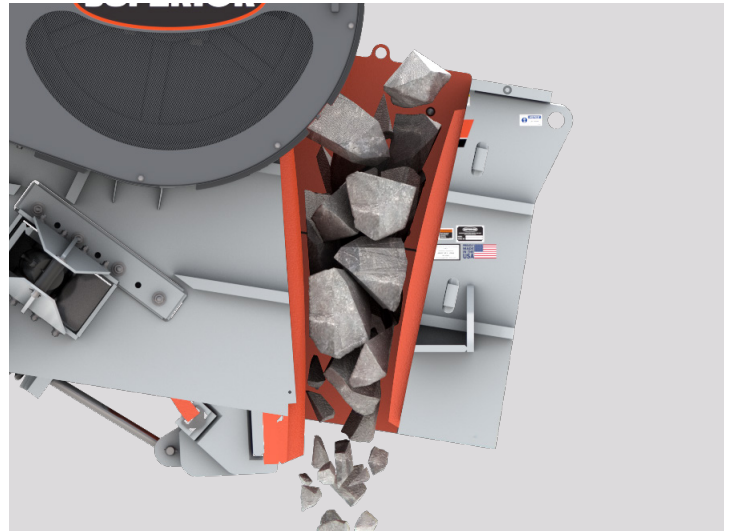
**12/ CENTRALIZED GREASING PORT**

All lines feed to a single grease bank to speed maintenance. (Upgrade to auto greasing system).

HIGHLIGHTS



02/ MID-MOUNT BASE FRAME



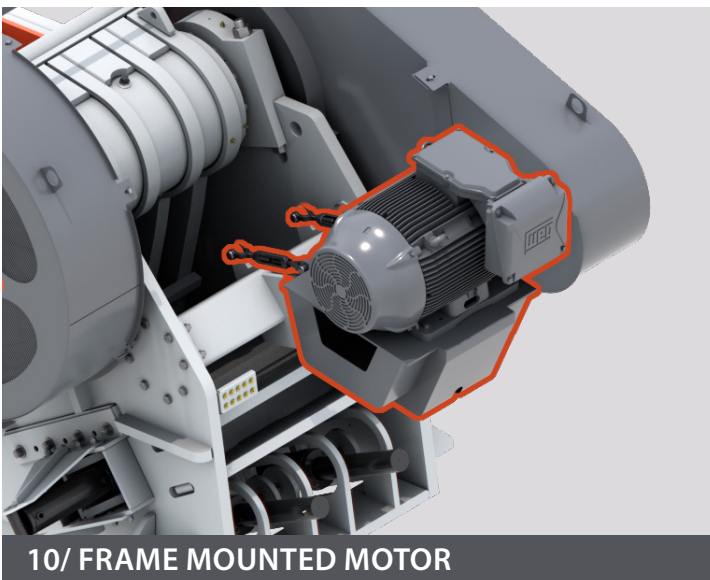
05/ AGGRESSIVE NIP ANGLE



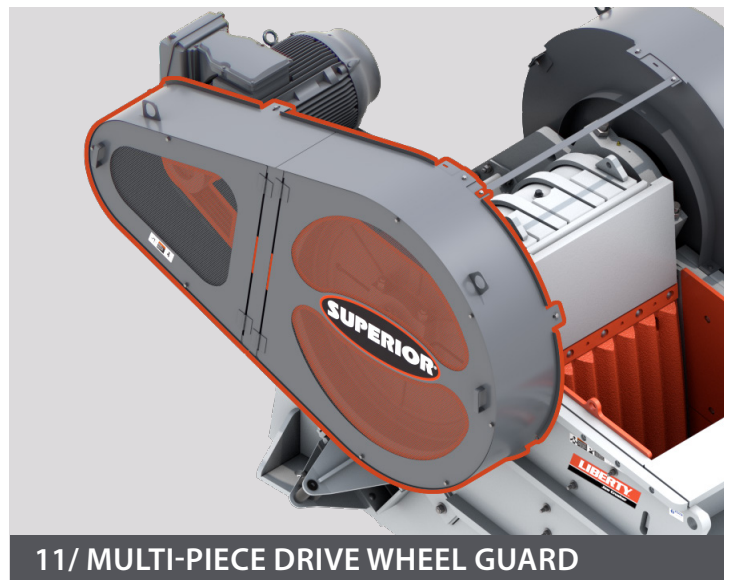
06/ PITMAN TOE PROTECTION



08/ HYDRAULIC WEDGE ADJUST



10/ FRAME MOUNTED MOTOR



11/ MULTI-PIECE DRIVE WHEEL GUARD

## SPECIFICATIONS

### LIBERTY JAW GENERAL SPECIFICATIONS

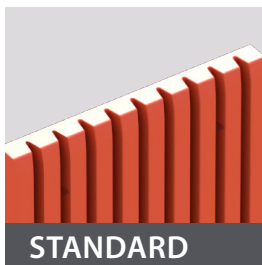
Model	Weight		Feed Opening		CSS		Capacity		Speed	Max. Feed Size		Power	
	kg	lbs	mm x mm	inch x inch	mm	inch	mtph	stph	rpm	mm	inch	kW	hp
1836	10,885	24,000	455 x 915	18 x 36	38 - 152	1.5 - 6.0	45-230	50 - 250	275	365	14.4	55	75
2036	13,605	30,000	510 x 915	20 x 36	50 - 203	2.0 - 8.0	50-340	55 - 370	235	410	16.0	55	75
2054	18,145	40,000	510 x 1,370	20 x 54	38 - 203	1.5 - 8.0	65-470	75 - 515	235	410	16.0	75	100
2442	17,235	38,000	610 x 1,065	24 x 42	50 - 203	2.0 - 8.0	90-380	100 - 415	235	490	19.2	75	100
3244	25,400	56,000	810 x 1,115	32 x 44	76 - 279	3.0 - 11.0	155-670	175 - 735	230	650	25.6	110	150
3048	29,485	65,000	760 x 1,220	30 x 48	76 - 228	3.0 - 9.0	175-730	195 - 740	230	610	24.0	110	150
3254	30,390	67,000	810 x 1,370	32 x 54	76 - 304	3.0 - 12.0	150-825	165 - 905	225	650	25.6	185	250
3648	38,555	85,000	915 x 1,220	36 x 48	88 - 292	3.5 - 11.5	190-600	210 - 660	210	730	28.8	185	250

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

inch	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

Projected crusher capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft<sup>3</sup> (1.6 mt/m<sup>3</sup>). 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.

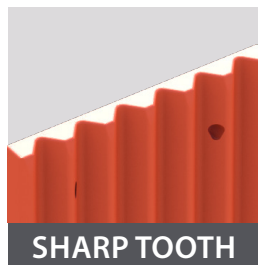
### MULTIPLE LINER CONFIGURATIONS



STANDARD



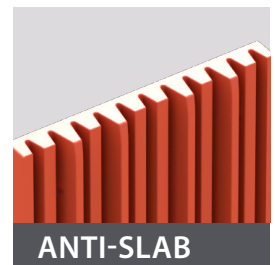
CORRUGATED



SHARP TOOTH



BELLIED-FILLED



ANTI-SLAB