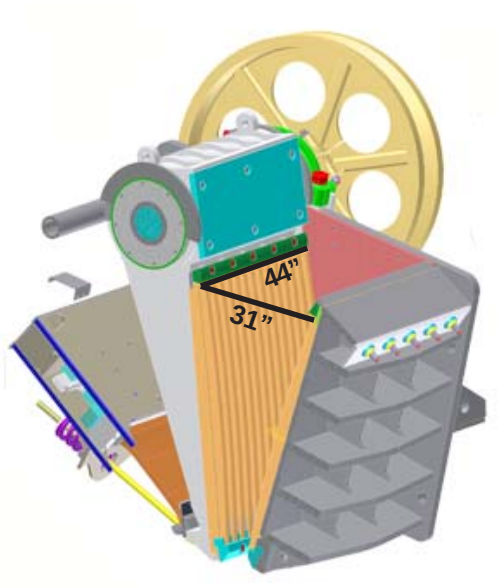
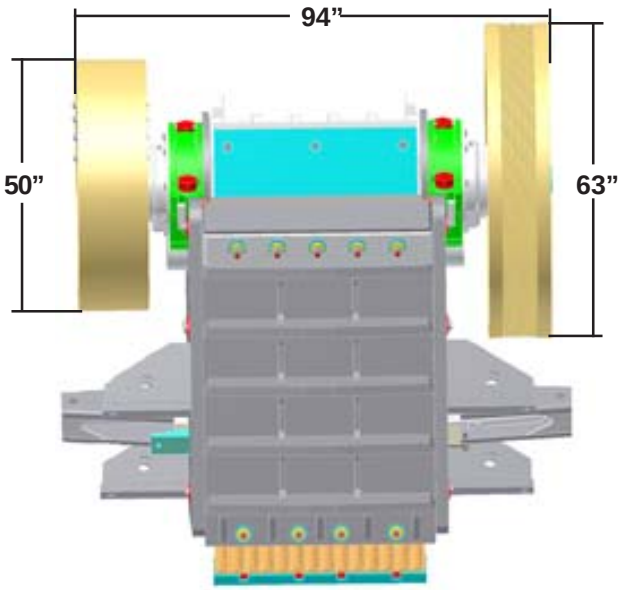
KPI-JCI
ASTEC COMPANIES

JAW CRUSHER
Model 3144 Spec Sheet





- **SHAFT**
  - SAE4140 forged steel shaft
  - Increased stroke

- **BEARINGS**
  - Spherical roller self-aligning type with straight bore pitman bearing
  - Tapered bore main bearing
  - Pillow block housing mounted in saddle blocks

- **FLYWHEEL**
  - Cast iron 63” diameter 10-5V grooves drive flywheel
  - 50” flat face flywheel opposite side

- **PITMAN**
  - Cast steel design

- **BASE**
  - Low carbon steel fabrication
  - Stress relieved

- **TOGGLE**
  - Ductile iron
  - Steep angle for increased production

- **SIDE LINERS**
  - Abrasion resistant steel
  - (3) three piece bolt on

- **JAW DIES**
  - Manganese steel with machined back
  - Multiple configuration available

- **ADJUSTMENT**
  - Hydraulic dual wedge

- **LUBRICATION**
  - Grease system

● CRUSHER DATA

Jaw Opening (Gap).....31” (787mm)
Jaw Width.....44” (1118mm)
Moving Jaw, Overall Depth.....65” (1651mm)
Stationary Jaw, Overall Depth.....62” (1575mm)

Weight.....43,500 lb (19,749 kg)
Power Required (HP).....150 Electric, 190 Diesel
RPM.....260 Maximum
Stroke.....1-1/2”

APPROXIMATE GRADATIONS AT PEAK TO PEAK CLOSED SIDE SETTINGS

Test Sieve Sizes (in.)	3/4” 19 mm	1” 25.4 mm	1 1/4” 31.8 mm	1 1/2” 38.1 mm	2” 50.8 mm	2 1/2” 63.5 mm	3” 76.2 mm	3 1/2” 89.1 mm	4” 102 mm	5” 127 mm	6” 152 mm	7” 178 mm	8” 203 mm	Test Sieve Sizes (mm)
12											100	98	95	305
10										100	97	95	90	254
8									100	96	92	85	75	203
7		Values are percent passing						100	97	92	85	76	65	178
6							100	98	93	85	74	65	53	152
5						100	97	95	85	73	62	52	40	127
4					100	96	90	85	70	56	45	38	28	102
3				100	93	85	75	65	50	38	32	27	23	76.2
2 1/2			100	95	85	73	62	52	38	31	24	22	17	63.5
2		100	96	85	70	55	47	39	28	24	20	17	13	50.8
1 1/2	100	93	85	67	49	39	33	27	21	18	15	13	10	38.1
1 1/4	96	85	73	55	39	31	27	23	17	15	13	10	8	31.8
1	85	69	55	40	29	24	20	17	14	12	10	8	6	25.4
3/4	66	49	39	28	21	18	15	13	11	9	8	6	5	19
1/2	41	29	24	19	14	12	10	9	7	6	6	5	4	12.7
3/8	28	21	18	14	11	9	8	7	5	5	5	4	3	9.53
1/4	18	14	12	10	7	7	6	5	4	4	4	3	2	6.35
#4	12	10	9	7	5	5	4	4	3	3	3	2	1	#4
#8	6	6	5	5	4	4	3	3	2	2	2	1	0.5	#8

Peak to Peak Closed Side Setting - Approximate Capacity

Crusher Setting		3”	3 1/2”	4”	5”	6”	7”
in.	mm	76	89	102	127	152	178
* Tons per Hour		212	240	267	320	373	426
mt/h		191	218	241	288	355	383

* Based on material weighing 2700 lb per cubic yard
Capacity may vary depending on material characteristics

NOTE: Specifications are subject to change without notice.

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