

## When Versatility, Reliability, and Long Service Life Matter!

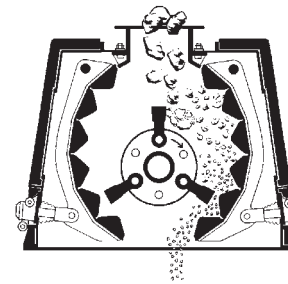


### Models To Fit Your Needs

Pennsylvania Crusher brand reversible impactors are available in a variety of models:

- **Model CAL** – the culmination of more than 75 years of design improvements make these reversible impactors the preferred choice in nearly every segment of the mineral processing industry due to their excellent reliability, impressive ruggedness, and superb performance, coupled with low initial cost and low maintenance costs.
- **Model CA** – with their extra-heavy-duty construction – the most robust in the industry – these reversible impactors include all of the features of the model CAL while specifically designed to handle larger input sizes and higher capacities with ease, ensuring reliable duty and long service life even under the harshest conditions.
- **Models CXF and CXC** – with their smaller input sizes, these compact reversible impactors are well suited for production at lower capacities. The model CXF is equipped with fixed breaker blocks throughout while the model CXC uses fixed upper breaker blocks and adjustable lower breaker blocks – the latter allowing you to vary the gradation of the output to suit your needs as well as more easily maintain gradation over the life of the crushing components.

### Reversible Crushing Action



The reversible impactor is a highly versatile crusher first developed and patented by Pennsylvania Crusher in 1937.

As material enters the machine it is struck by massive steel hammers which cause it to fracture along its natural fault lines into smaller

pieces. Now moving at the high velocity imparted by the swinging hammers, these pieces strike the stationary breaker blocks, resulting in further size reduction. The particles rebound into the path of the hammers, repeating the reduction cycle until the sized material exits through the open bottom of the crusher.

This method of reduction produces a cubical product at high reductions ratios of up to 35 to 1, depending on the friability of the input material.

Overcrushing and excessive production of fines are prevented because the bottom of the crusher is completely open, with no screen bars or other obstructions to impede material flow. In addition, power requirements are reduced by one-half or more of that required by hammermill grate-type crushers processing the same nominal output. Additionally, when processing high moisture materials, this design reduces the chance of plugging.

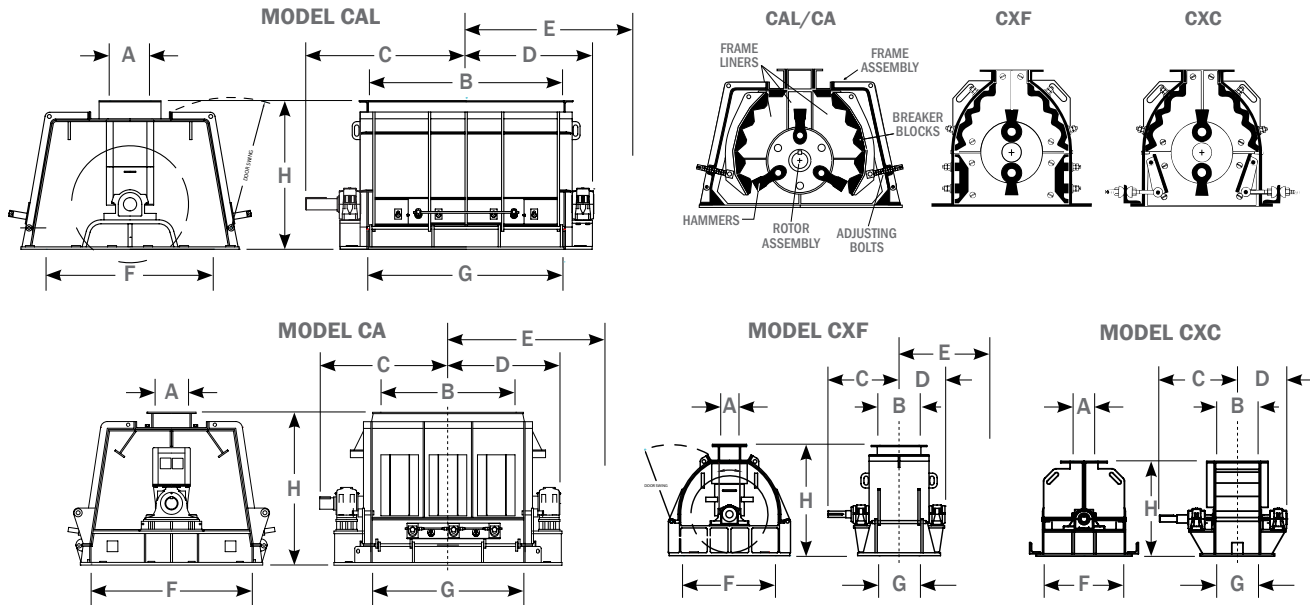
### OUR FLAGSHIP BRANDS



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**Dimensions and Weights**



**MODEL CAL REVERSIBLE IMPACTORS APPROXIMATE LAYOUT DIMENSIONS\* AND SHIPPING WEIGHTS IN (MM)**

MODEL	INPUT OPENING		OVERALL WIDTH REQUIREMENTS			DISCHARGE OPENING		HEIGHT	WEIGHT
	A	B	C	D	E**	F	G	H	LBS (KG)
3-32A	9.75" (248)	13" (330)	20-7/8" (530)	14-1/4" ( )	14" (356)	71" (1803)	55" (1397)	48" (1219)	4,200 (1,905)
5-32A	13" (330)	19-1/4" (489)	27" (686)	19" (483)	28" (711)	55" (1397)	19-1/4" (489)	48" (1219)	5,950 (2,700)
5-38A	15-1/2" (394)	19-1/4" (489)	27" (686)	19-5/8" (498)	34-1/2" (876)	63-1/4" (1607)	19-1/4" (489)	57" (1448)	8,400 (3,810)
7-38A	15-1/2" (394)	28-1/2" (724)	32-5/8" (829)	24-3/8" (619)	42" (1067)	63-1/4" (1607)	30" (762)	57" (1448)	10,900 (4,944)
9-38A	15-1/2" (394)	38" (965)	38-1/2" (978)	29" (737)	56" (1422)	63-1/4" (1607)	38" (966)	57" (1448)	13,300 (6,033)
11-38A	15-1/2" (394)	48" (1219)	48" (1219)	36" (914)	72" (1829)	63-1/4" (1607)	49-1/2" (1257)	57" (1448)	15,450 (7,008)
13-38A	15-1/2" (394)	57-3/8" (1457)	52-11/16" (1338)	40-11/16" (1033)	77" (1956)	63-1/4" (1607)	58-7/8" (1495)	57" (1448)	17,750 (8,051)
11-44A	18" (457)	48" (1219)	48" (1219)	36" (914)	72" (1829)	74-1/2" (1892)	49-3/4" (1264)	66" (1676)	19,000 (8,618)
15-44A	18" (457)	66-3/4" (1695)	57-3/8" (1457)	45-3/8" (1153)	100" (2540)	74-1/2" (1892)	68-1/4" (1734)	66" (1676)	24,900 (11,294)
19-44A	18" (457)	85-1/2" (2172)	71-3/16" (1808)	56-23/32" (1441)	129" (3277)	74-1/2" (1892)	87" (2210)	66" (1676)	34,000 (15,422)

**MODEL CA REVERSIBLE IMPACTORS APPROXIMATE LAYOUT DIMENSIONS\* AND SHIPPING WEIGHTS IN (MM)**

MODEL	INPUT OPENING		OVERALL WIDTH REQUIREMENTS			DISCHARGE OPENING		HEIGHT	WEIGHT
	A	B	C	D	E**	F	G	H	LBS (KG)
6-36	15" (381)	60-1/2" (1537)	58-7/32" (1479)	48-1/4" (1256)	48" (1219)	72" (1829)	69-1/2" (1765)	68" (1727)	24,000 (10,886)
8-48	20" (508)	80-1/2" (2045)	80-1/2" (2045)	71" (1803)	56" (1422)	96" (2438)	91" (2311)	91-1/4" (2318)	56,500 (25,628)
8-60	25" (635)	81" (2057)	85-1/2" (2172)	75" (1905)	78" (1981)	93" (2392)	120" (3048)	114" (2896)	(Not Available)
10-60	25" (635)	101" (2565)	102-1/4" (2597)	85" (2160)	78" (1981)	120" (3048)	120" (3048)	114" (2896)	106,000 (48,081)

**MODEL CXF & CXC REVERSIBLE IMPACTORS APPROXIMATE LAYOUT DIMENSIONS\* AND SHIPPING WEIGHTS IN (MM)**

MODEL	INPUT OPENING		OVERALL WIDTH REQUIREMENTS			DISCHARGE OPENING		HEIGHT	WEIGHT
	A	B	C	D	E**	F	G	H	LBS (KG)
00-16	6" (152)	11" (279)	20-15/16" (532)	13-1/4" (337)	N/A	21-1/2" (546)	11-3/4" (298)	25-1/2" (648)	825 (374)
3-26	6" (152)	13-1/4" (337)	24" (610)	15-1/2" (394)	26" (660)	33" (838)	13-1/2" (343)	37-1/4" (946)	2,800 (1,270)

\* Certified drawings will be furnished for installation. Installation supervision is available. \*\* Clearance for removal of hinge pins (Model CXF) and suspension bar.

**Typical Applications**

Limestone, bottom ash, carbon, coal, fertilizers, potash, metallic dross, foundry sand, glass, graphite, green and fired brick, ceramics, phosphates, salt cakes, salg, and tungsten carbide, plus a wide range of other ores, minerals, and materials.

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