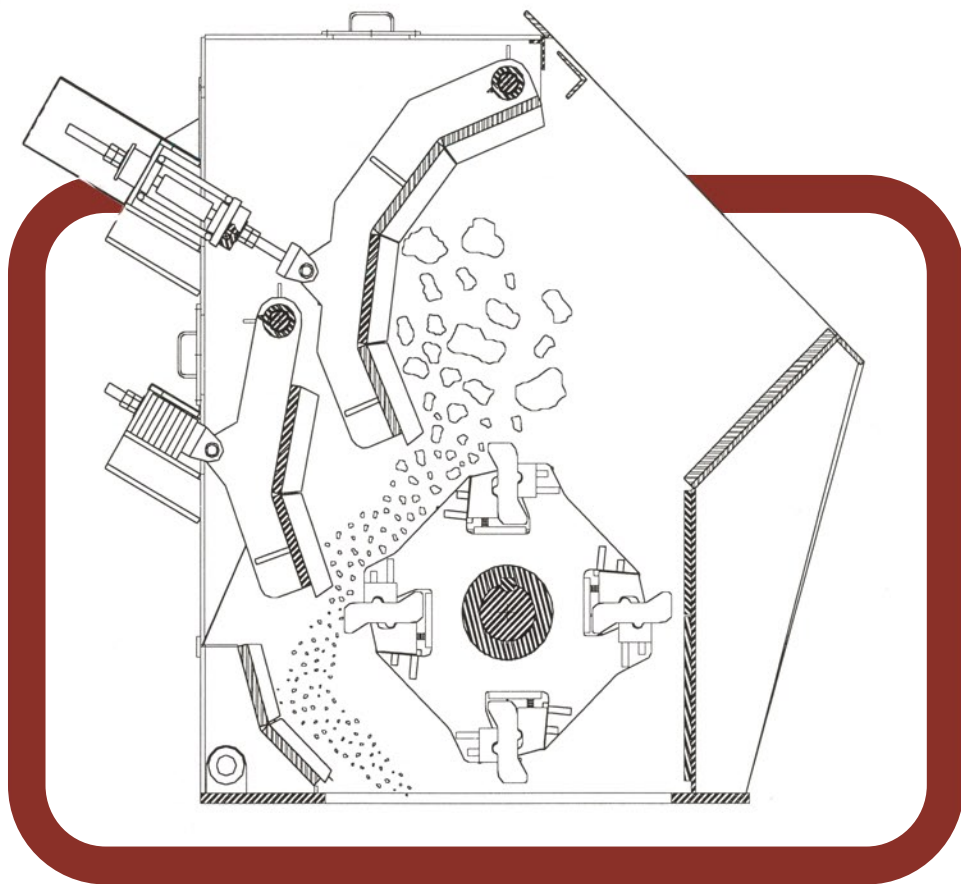


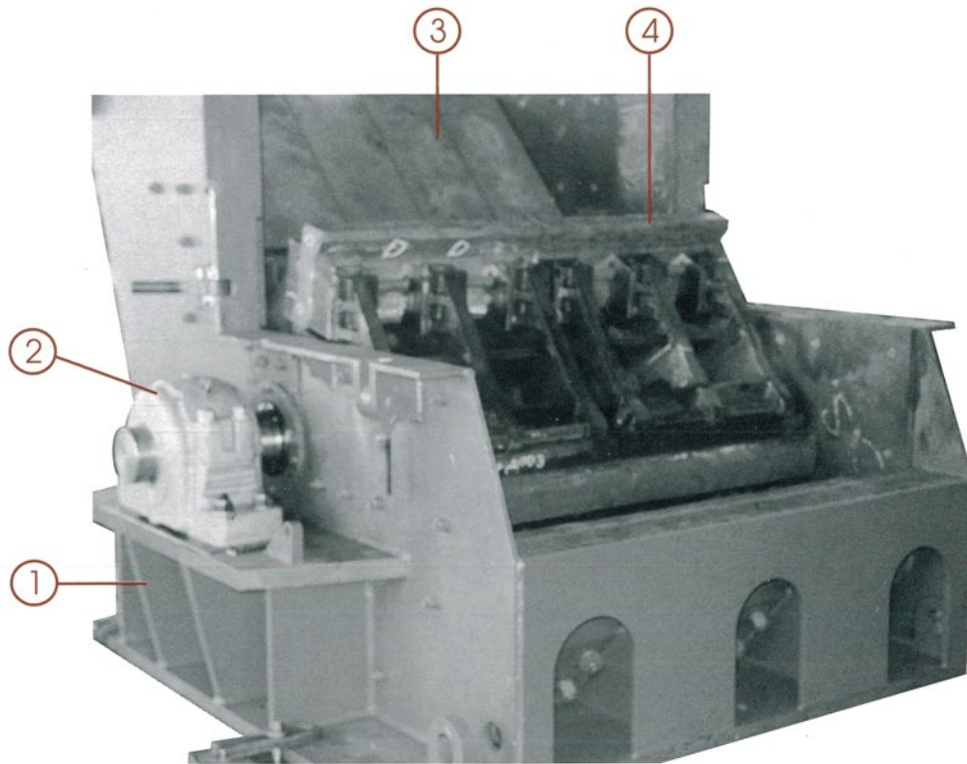
American Pulverizer Company

Primary and Secondary Single Rotor Impactors
to achieve *HIGH REDUCTION RATIOS.*



For the reduction of limestone, basalt, bauxite, dolomite, shales, gypsum, coal, granite, glass, concrete, asphalt materials, ores, aluminum UBC biscuits, bales and briquettes.

QUALITY AND SERVICE SINCE 1908



Standard features include:

1. Ribbed housings of heavy plate steel, reinforced at stress points.
2. Oversized taper bored, spherical roller bearings, grease lubricated and enclosed in two piece, dust-tight pillow blocks.
3. Liners are designed for easy installation and removal. Liners are held in place by countersunk recessed bolts. A minimum number of shapes is used to make place stocking easier. Side and feed end liners are 1" to 1 1/2" thick. Deflector plate liners are 2" thick. Liners can be made from 400 Brinell plate or cast from a chrome alloy.
4. Rigid rotor assembly is dynamically balanced and designed to operate without excess vibration.

AMERICAN PULVERIZER impactors all operate on the same principle. The infeed material enters the impactor through the feed chute and is engaged by the rigid rotor hammers and hurled against the impact arms.

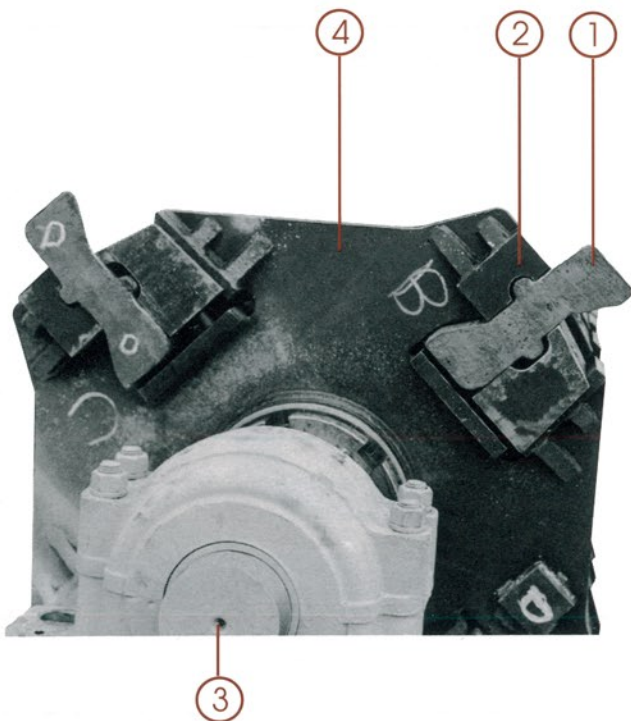
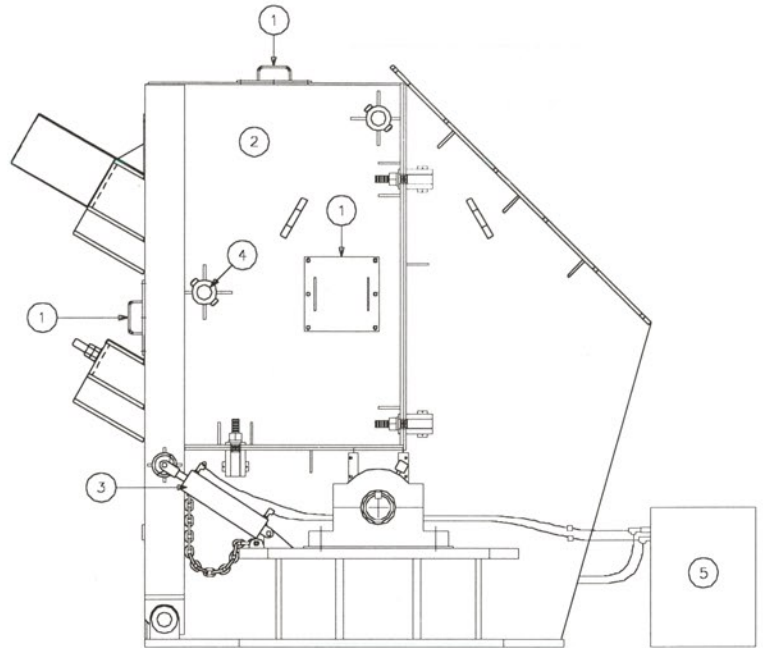
Reduction is caused by impact against impact curtains and rigid hammers and by collision with new infeed material entering the crusher. This true impact principle promotes a uniform cubical product.

The rotor revolves vibration-free in a rib-reinforced, plate steel housing. The rotor is provided with replaceable hammers, cast from manganese steel or a hi-chrome alloy. These hammers project the feed material against the two impact arms in the crusher housing to continue to the crushing process. The impact curtains direct the feed material back into the hammer tips. Reduction continues until the feed material is fine enough to pass through the gaps between the impact arms and the hammer top circle.

The product size can be controlled by externally raising or lowering the arms. The rotor speed also greatly influences sizing.

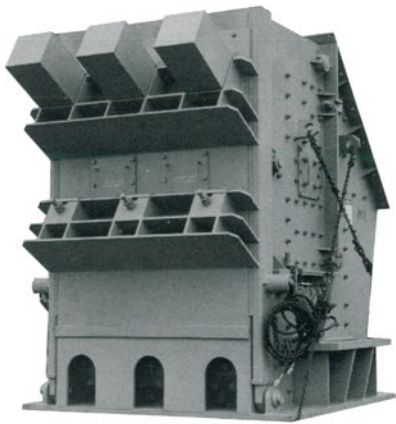
The single impact crusher can replace a multi-stage crushing process. The high crushing effect and high reduction ratio achieved by impaction arise from exploiting inherent weaknesses and lines of cleavage present in the feed materials.

1. Doors for inspection and maintenance.
2. Back upper housing is split horizontally and vertically for easy access to the interior of the mill. Maintenance can be done without disturbing the feed hopper. The entire rotor assembly can be removed via the back upper housing while the feed hopper is intact.
3. Hydraulic cylinders for raising the back upper housing on 50" diameter and larger machines.
4. Pivot shafts for impact curtains. Shafting is 4150 heat treated alloy steel.
5. 5 HP hydraulic power unit, including T.E.F.C. motor, pump, reservoir, oil level, gauge, filter, breather, and relief valve. Used on all 50" diameter and larger machines.

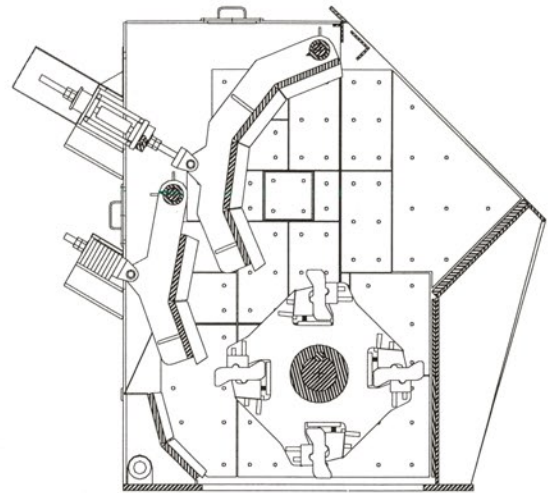


1. Cast hammers, available in different widths and thicknesses. Hammers can be manganese with chrome alloy. Hammers are a slide-in design for easy replacement. Hammers can be reversed when leading edge becomes worn.
2. Rotor shoes are a high grade alloy and available in three (3) sizes according to the hammer used.
3. Rifle drilled main rotor shaft. Shaft is rifle drilled for ease of bearing removal. Shaft material is a 4150 heat treated alloy steel forging.
4. Heavy-duty end disc, keyed to the main shaft and held together with rotor locknuts.

Complete systems available with infeed and take away conveyors.
Units can be portable or stationary.



Model 50x60 SRI Impactor housing ready for shipment.

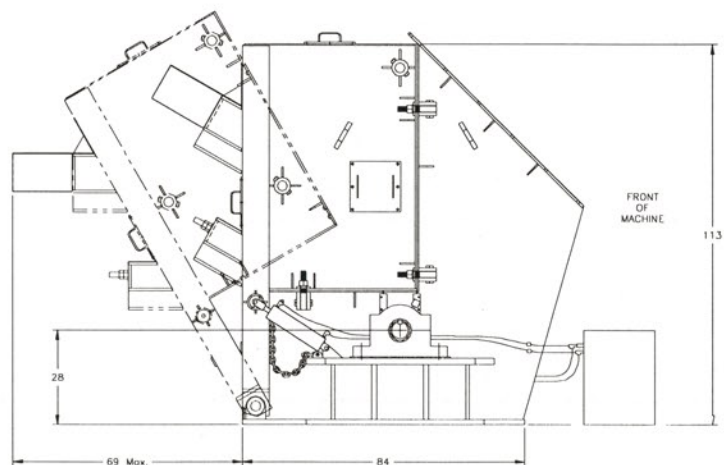
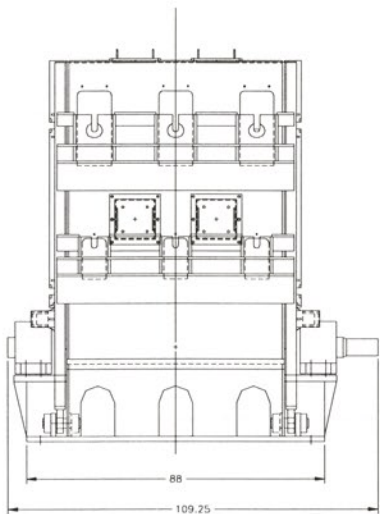


Typical cross-section of 50x60 SRI Impactor.

MODEL	HP (TYP)	FEED OPENING	MAXIMUM FEED SIZE	BARE MACHINE WEIGHT (LBS)
12x18 SRI	5-25	8"x18"	5"	3,000#
12x36 SRI	10-30	8"x36"	5"	5,000#
24x36 SRI	40-125	14"x36"	10"	6,500#
36x48 SRI	50-150	28"x48"	22"	18,000#
36x60 SRI	60-200	28"x60"	22"	26,000#
50x60 SRI	250-750	40"x60"	34"	45,000#
50x90 SRI	350-1,000	40"x90"	34"	68,000#
60x60 SRI	350-900	50"x60"	44"	56,000#
60x90 SRI	400-1,000	50"x90"	44"	88,000#
72x108 SRI	500-1,200	62"x109"	56"	138,000#

Custom built units also available.

Overall dimensions vary depending on the type and location of the impact arms. Machines can be furnished with four or six arm rotor design. Horsepower requirements may vary depending on capacity, feed size, product size and type of material being reduced.



Overall dimensions of a model 50x60 SRI with back upper housing in pivot position.

Call or write today for a quote.
All parts made in the USA
Testing facilities available.

American
Pulverizer Company

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