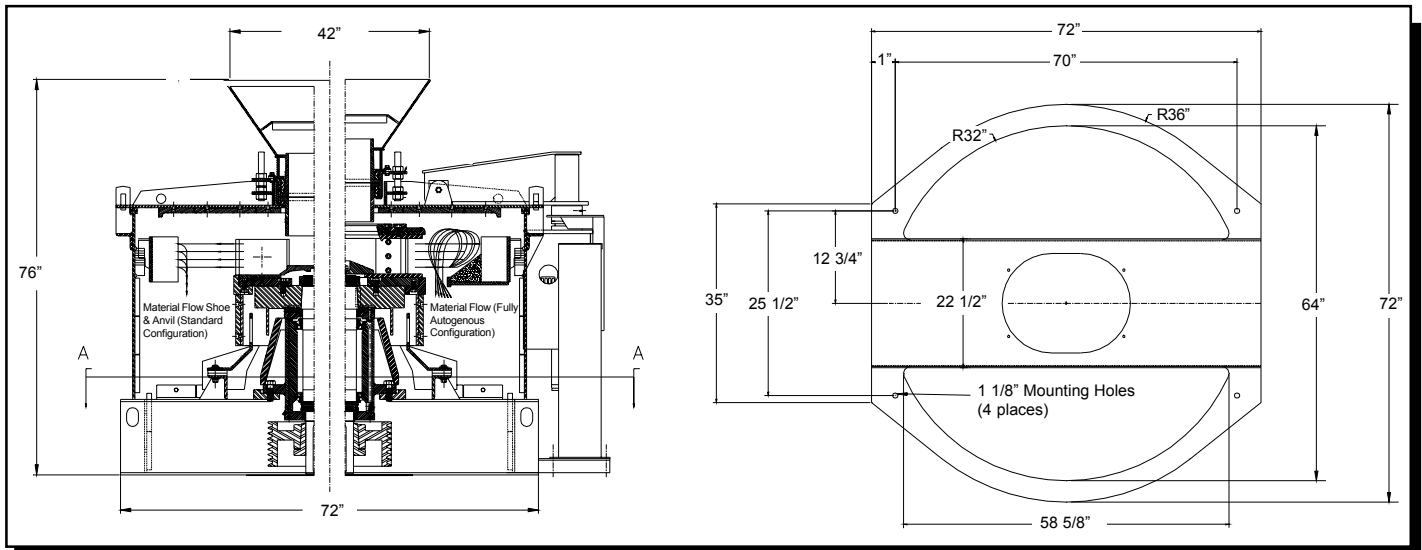




VERTICAL SHAFT IMPACT CRUSHER Model 1500 Spec Sheet



MAIN FRAME & TUB

Fabricated steel construction includes integral reinforced drive tunnel. Bolt-on high chrome liners protect both tub and drive tunnel.

PEDESTAL ASSEMBLY

Fabricated stress relieved housing. Tapered roller bearings, solid steel 5" 4142 shaft, and 19" x 5" flywheel.

LUBE SYSTEM

Self-contained low pressure bearing oil lube system is flow and temperature monitored with standard integral alarm system. Pedestal seals are grease lubricated.

LID (cover) - REMOVABLE

Fabricated steel construction with access doors, wedge type hold down clamps, bolt-on high chrome liners, and optional hydra-arm lid removal system.

CRUSHER DATA:

Tub Diameter: 66" (1676mm)

Feed Tube: 8 1/2" dia. (216mm)

Accelerator Speed: 720 to 2000 rpm

Max. Feed Size: 2" (51mm) - rotor

2" (51mm) - shoe table

FEED MECHANISM

Externally adjustable fabricated steel feed box with high chrome replaceable feed tubes.

ACCELERATOR

3 port rotor and 3, 4, or 5 shoe tables are interchangeable and feature 100% replaceable liners - no welding. All accelerators are fabricated stress relieved construction, balanced for smooth operation.

IMPACT AREA

Hybrid rock shelf and cluster ring are interchangeable. Rock shelf and cluster ring feature fabricated construction protected with replaceable high chrome anvils.

CRUSHER DATA:

Weight: 13,200 lbs. (H) 13,700 lbs (A)

Explosion Chamber: 4,635 cu in.

Recommended HP: 75-150 (electric)

Capacity: 75-150 tph

NOTE: Specifications are subject to change without notice.

Typical Limestone in Standard Configuration 1500H

**Producing a course graded material,
Emphasis on chips, popcorn, and dimensional products.**

Typical coarse gradations require 50% - 80% maximum speed, 3 or 4 shoe table.

Tertiary Sieve Size inches mm		MODEL 1500H			
		2" Feed		1" Feed	
Feed	Typical Output	Feed	Typical Output		
3"	75mm		100%		
2"	50mm		98		
1 1/2"	37.5mm		90		100%
1"	25mm		78		95
3/4"	19mm		60		80
1/2"	12.5mm		46		62
3/8"	9.5mm		33		40
1/4"	6.3mm		24		30
#4M	4.75mm		15		15
#8M	2.36mm		0		10
#16M	1.18mm		7		7
#30M	600uM		5		5
#50M	300uM		4		4
#100M	150uM		3		3
#200M	75uM				

Typical Limestone in Standard Configuration 1500 H

**Producing a dense graded material, emphasis on fines for base,
asphalt material, sand supplement, etc.**

Typically dense gradations require 70% - 100% maximum speed, 4 or 5 shoe table.

Tertiary Sieve Size inches mm		MODEL 1500H			
		2" Feed		1" Feed	
Feed	Typical Output	Feed	Typical Output		
3"	75mm		100%		
2"	50mm		94		100%
1 1/2"	37.5mm		85		99
1"	25mm		73		90
3/4"	19mm		62		78
1/2"	12.5mm		49		63
3/8"	9.5mm		40		52
1/4"	6.3mm		27		33
#4M	4.75mm		18		21
#8M	2.36mm		12		15
#16M	1.18mm		8		10
#30M	600uM		6		6
#50M	300uM		4		4
#100M	150uM				
#200M	75uM				

Typical Limestone in Standard Configuration 1500 H

**Crushing 1" top feed size for chips, popcorn, fracture count, or a
manufactured sweetener.**

Low Range Resulting From: - tough feed material - impeller speeds 50-80% of max. - crusher choke-fed - 3 or 4 shoe table

High Range Resulting From: - moderately tough to moderately friable feed material - 4 or 5 shoe table - impeller speeds 80-100% of max. - crusher fed 85% of choke-feed rate, or less

MODEL 1500H Quaternary Sieve Size inches mm		Approx. Crusher Output			
		Feed	Low Range	High Range	High Range
			%Passing	Average	Screened at #4M*
1"	25mm		100%	100%	
3/4"	19mm		95	97	
1/2"	12.5mm		80	85	
3/8"	9.5mm		62	70	
1/4"	6.3mm		40	52	
#4M	4.75mm		30	41	100%
#8M	2.36mm		15	24	75
#16M	1.18mm		10	15	48
#30M	600uM		6	11	34
#50M	300uM		5	7	22
#100M	150uM		4	5	13
#200M	75uM		3	3	9

* Shows high range with the effect of normal field screening inefficiencies. A proportional return of the coarse screen through fractions and hydraulic classification to remove a portion of the #100 mesh minus is usually required to meet ASTM C-33 specifications regarding a #4M minus gradation.

Feeds: Typical feeds shown have been screened to take out product sized material, and are initial feed plus recirculating load.

Outputs: These outputs show average values based on field experience crushing tough material, and indicate crusher output before screening product sized material out. Gradation change is due to accelerator speed and crusher configuration. Values will differ for each specific crushing application. Factors that can affect output gradation are: feed gradation, feed tonnage, feed friability, crusher configuration, accelerator speed, moisture content, closed circuit screen cloth opening, available screen area and horsepower. Capacities and gradations are based upon material weighing 2,700 lbs. per cubic yard (1600 kg/m³). Capacities may vary as much as + 25% dependent upon methods of loading, characteristics and gradation of material, condition of equipment and other factors.

NOTE: Specifications are subject to change without notice.

**FOR MORE INFORMATION CALL 1-800-542-9311 AND ASK FOR A PIONEER EQUIPMENT SPECIALIST.
YOUR AUTHORIZED DEALER:**

KOLBERG-PIONEER, INC.

700 W. 21st Street - P.O. Box 20
Yankton, South Dakota 57078

Phone: (605) 665-8771 - FAX: (605) 665-8858
mail@kolbergpioneer.com - www.kolbergpioneer.com

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