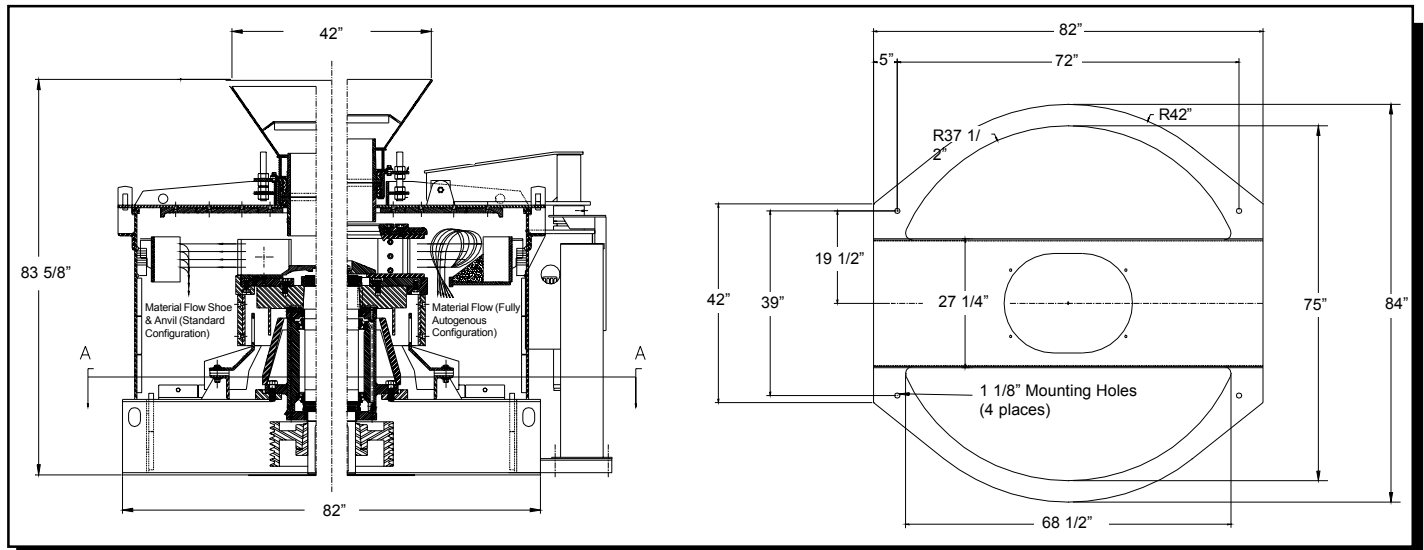




VERTICAL SHAFT IMPACT CRUSHER Model 2500 Spec Sheet



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 6 1/2" 4142 shaft, and 25 1/2" x 4 3/4" 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: 72 3/8" (1838mm)

Feed Tube: 11 3/8" dia. (289mm)

Accelerator Speed: 700 to 1400 rpm

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

3" (76mm) - 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: 18,000 lbs. (H) 19,000 lbs (A)

Explosion Chamber: 10,120 cu in.

Recommended HP: 150-300 (electric)

Capacity: 150-300 tph

NOTE: Specifications are subject to change without notice.

Typical Limestone in Standard Configuration 2500H

**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 2500H					
		3" Feed		2" Feed		1" Feed	
		Feed	Typical Output	Feed	Typical Output	Feed	Typical Output
3"	75mm		100%		100%		
2"	50mm		98		98		
1 1/2"	37.5mm		94		98		
1"	25mm		83		90		100%
3/4"	19mm		69		78		95
1/2"	12.5mm		52		60		80
3/8"	9.5mm		40		46		62
1/4"	6.3mm		28		33		40
#4M	4.75mm		20		24		30
#8M	2.36mm		14		15		15
#16M	1.18mm		9		10		10
#30M	600uM		6		7		7
#50M	300uM		4		5		5
#100M	150uM		3		4		4
#200M	75uM		2		3		3

Typical Limestone in Standard Configuration 2500 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 2500H					
		3" Feed		2" Feed		1" Feed	
		Feed	Typical Output	Feed	Typical Output	Feed	Typical Output
3"	75mm		100%				
2"	50mm		98				
1 1/2"	37.5mm		95		100%		
1"	25mm		87		94		100%
3/4"	19mm		79		85		99
1/2"	12.5mm		68		73		90
3/8"	9.5mm		57		62		78
1/4"	6.3mm		46		49		63
#4M	4.75mm		37		40		52
#8M	2.36mm		26		27		33
#16M	1.18mm		17		18		21
#30M	600uM		11		12		15
#50M	300uM		7		8		10
#100M	150uM		5		6		6
#200M	75uM		4		4		4

**Typical Limestone in Standard Configuration 2500 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 2500H Quaternary Sieve Size inches mm		Approx. Crusher Output				
		Feed	Low Range	High Range	Average	High Range Screened at #4M*
			%Passing			
1"	25mm		100%	100%	100%	
3/4"	19mm		95	99	97	
1/2"	12.5mm		80	90	85	
3/8"	9.5mm		62	78	70	
1/4"	6.3mm		40	63	52	
#4M	4.75mm		30	52	41	100%
#8M	2.36mm		15	33	24	75
#16M	1.18mm		10	21	15	48
#30M	600uM		6	15	11	34
#50M	300uM		5	10	7	22
#100M	150uM		4	6	5	13
#200M	75uM		3	4	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:**

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