

Gold Crush

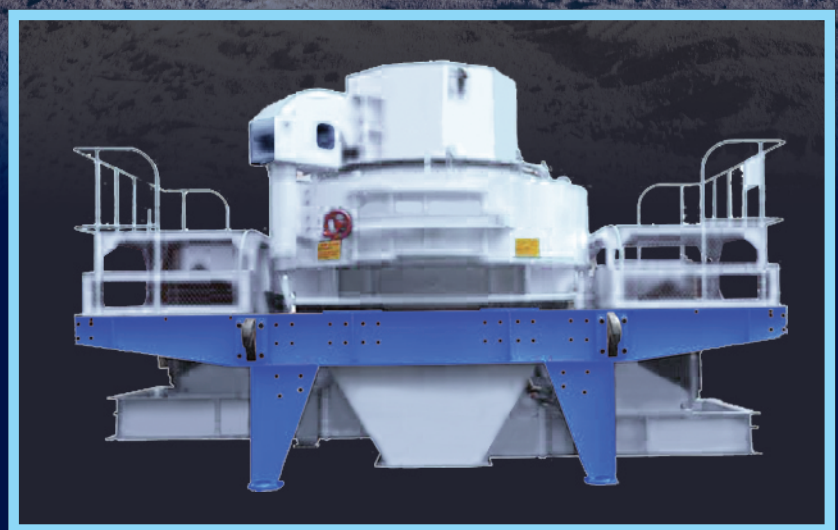
K.V. Metal Works

VSI

Sand Making Plant



MAKE DIFFERENCES TO GENERATION INFRASTRUCTURE



K.V. Metal Works

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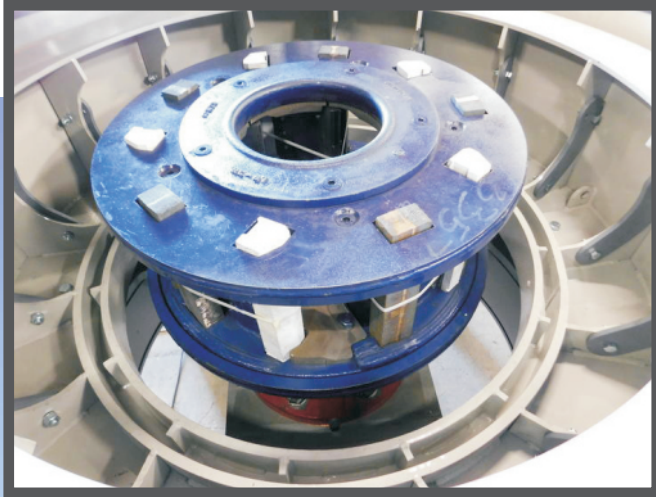
GOLD CRUSH (GC -VSI) Vertical Shaft Impactor

is one of the most versatile crushers available on the market today. Our VSI is technologically advanced and has features to maximize first-pass yields and lower operating costs. It is the most efficient machine for making plaster sand as well as concrete sand. GC-VSI can be used for shaping the aggregate to meet the specification of aggregate as well as for making crushed sand for superpave asphalt aggregates, road base, gravel, sand and cement. It may also be used for size reduction in industries for corundum, corundite, ferro-silicon, glass, refractory, silicon carbide, tungsten carbide and zeolite. Mining applications include size reduction of bauxite, burnt magnesite, iron ore, non-ferrous metal ore, perlite and trona sulfate. VSIs are excellent for everything from abrasive materials to waste and recycling applications.





GOLD CRUSH (GC-VSI) Vertical Shaft Impactor



Working Principle

GC-VSI Vertical Shaft Impactor (VSI) crusher uses a unique approach for size reduction involving a high speed rotor with wear resistant tips and a crushing chamber designed to 'throw' the rock against. The VSI crusher utilizes velocity rather than pressure as the predominant force to break rock. The product resulting from VSI Crushing is of consistent cubical shape required by modern superpave highway asphalt applications. Using this method also allows materials with much higher abrasiveness to be crushed than is possible with an HSI and most other crushing methods.

Gold crush (GC-VSI) crushers utilize a high speed spinning rotor at the center of the crushing chamber and an outer impact surface of either abrasive resistant metal anvils or crushed rock. The models utilizing cast metal surface (anvil) is referred to as a "Shoe and Anvil VSI". And the models utilizing crushed rock on the outer walls of the crusher for new rock to be crushed against is referred to as "rock on rock VSI". We offer both designs depending upon the nature of stone and its usage. GC-VSI Crushers can be offered in static plant set-up or in mobile tracked equipment.



GOLD CRUSH (GC-VSI) **Vertical Shaft Impactor**

Advantages of GC-VSI crusher



The GC-VSI's high cubical fracture percentage maximizes first-pass product yield and produces tighter particle size distribution. It has a high-throughput capacity ideal for beneficiation (elimination of soft material). Our Computer simulated configured VSI accepts highly abrasive materials with very slow wear rate, It has simple operation and maintenance. You can quickly change product size by changing rotor speed or cascade ratio. Our machine has reversible wear parts to reduce downtime. The GC-VSI typically has low operating costs even in high-moisture applications because of reduced energy costs and low wear cost per ton.



GC-VSI is typically used after a primary or secondary crusher. This makes a VSI ideal for making sand and for making cubicle coarse and medium aggregates for concrete/asphalt production.

Our machines accept feeds from 6-40 mm depending on the model selected. Computational Fluid Dynamics (CFD) mathematical modeling is utilized to simulate the flow and collision forces to design the shape of the tips and anvil for lowest wear cost, consistent final product, and higher energy efficiency.

The rotor speed (meters per second) controls final particle size. Speeding up the rotor will produce more fines, slowing it down will produce fewer fines. A VFD for motor can be offered to vary the speed as an additional feature.

Heavy duty vibration isolators provided between the body and support frame ensure long life for the equipment and lowers the chances of unbalancing of rotor meaning longer service.

The inbuilt chassis, supporting structure and ladder platform makes it a plug and play product. The user can start the machine in a matter of a few hours from the time of receiving it from our plant. The machine is fitted with drive at our plant under supervision of experts and the alignment achieved at plant enhances the smoothness in operation and long life for the belts as well as motor.



GOLD CRUSH (GC-VSI) Vertical Shaft Impactor

Technical Specification

Model No.		GC-VSI-75	GC-VSI-100	GC-VSI-200	GC-VSI-300
Rotor Speed	(RPM)	1500-2000	1500-2000	1500-1800	1500-1700
Feeding Size	(MM)	~12	~15	~30	~40
Power	(HP)	40-60	50-75	100-200	250-425
Nominal Throughput Capacity	(TPH)	50-100	75-140	175-265	260-375
Approx Weight	(kg)	4900	6500	8200	12500

Capacity (TPH)

Model	Power	Capacity (TPH for different speeds of VSI rotor (m/sec))						
		Speed	45	50	55	60	65	70
GC-VSI-75	30	25	23	20	18	16	15	13
	40	30	27	24	21	17	14	12
GC-VSI-100	50	35	30	27	24	21	17	14
	60	43	39	34	30	28	25	21
	75	53	48	43	39	35	30	26
GC-VSI-200	100	69	56	50	44	38	32	28
	120	114	104	93	80	69	55	45
	150	145	125	110	96	85	75	65
	175	163	144	125	113	103	90	80
	215	200	175	150	131	113	95	85
GC-VSI-300	270	270	238	204	181	156	130	115
	335	344	306	263	231	200	165	139
	425	435	381	338	288	241	200	165

Note : Capacity given above is estimated. Actual capacity and particle size distribution will depend upon rock type, feed size and hardness of the rock.



GOLD CRUSH (GC-VS) Vibratory Screens

Wire mesh fitted Vibrating screen

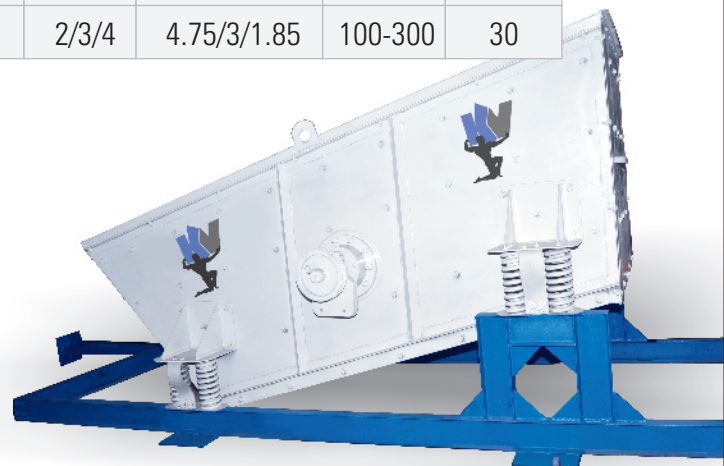
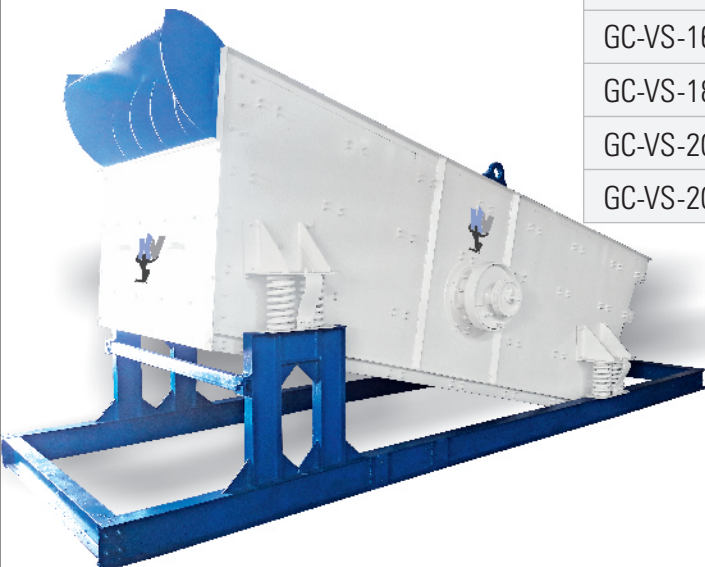


We manufacture reliable and high performance wire mesh fitted vibrating screen which offer 20% higher sieving compared to the plate type screens. The wire mesh is fixed on sides using crowning at the centre so that the wire mesh is always pulled from sides and the sieving is most efficient. Robust side casing and shaft with elegantly designed platform and chassis make it an engineering marvel.

Vibratory screen efficiency is key to the plant capacity and controls the particle size analysis by preventing the smaller size stones to recycle in the crushing machinery. The sieving is perfect and requires minimum maintenance. The equipment is designed for long life.

Technical Specification

Model	Size (Feet)	Deck	Opening Mesh (MM)	Capacity (TPH)	Power (HP)
GC-VS-84	8x4	2/3	4.75/3/1.85	10-50	7.5
GC-VS-104	10x4	2/3	4.75/3/1.85	15-75	10
GC-VS-124	12x4	2/3	4.75/3/1.85	20-90	10
GC-VS-125	12x5	2/3	4.75/3/1.85	25-100	10
GC-VS-145	14x5	2/3	4.75/3/1.85	50-150	15
GC-VS-165	16x5	2/3/4	4.75/3/1.85	50-200	15
GC-VS-185	18x5	2/3/4	4.75/3/1.85	100-250	20
GC-VS-205	20x5	2/3/4	4.75/3/1.85	100-300	25
GC-VS-206	20x6	2/3/4	4.75/3/1.85	100-300	30





GOLD CRUSH (GC-VF) Vibrating Feeders

Technical Specification



Model	Feed Size (MM)	Capacity (TPH)	Power (HP)	Overall Dimensions (LxBxH) MM
GC-VF-612	100	25-125	5	1350 x 1000 x 820
GC-VF-815	200	50-150	5	1550 x 1200 x 920
GC-VF-825	250	50-200	7.5	2700 x 1200 x 1050
GC-VF-1015	200	50-150	5	1550 x 1400 x 1100
GC-VF-1030	500	80-250	10	3200 x 1450 x 1500
GC-VF-1040	600	100-250	15	4100 x 1550 x 1800
GC-VF-1240	600	100-250	20	4400 x 1800 x 1800
GC-VF-1550	750	150-350	30	5100 x 2000 x 2100

Belt Conveyors

We design, Engineer, manufacture and supply belt conveyors for complete projects for stone crushing as well as sand making. Made using standard section as well as pre- engineering sections, they are robust and meet the duty conditions of stone crushing as well as sand making plants. We have successfully executed projects using our conveyors to match the world class machinery for making sand as well as stone aggregate.

In house manufacturing of parts like frames, supports, idler, roller, return roller, head pulley and tail pulley ensure that we have complete control on quality, performance and delivery time to meet the stringent demands of our customers on all these counts.





K.V. Metal Works

Manufacturers of VSI Stone Crushers, Rotary Screen, Vibrator, Jaw Crusher, Repairing and Job Work

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