BIMIX

MACHINES PVT. LTD.

AN INITIATIVE TOWARDS
SUSTAINABLE FUTURE

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JAW CRUSHERS

BIMIX Machines Pvt. Ltd. is a trusted brand for quality and robustly built, single toggle type Jaw Crhshers. Over the years, we have specialised in designing and manufacturing various sizes and models of Jaw Crushers, some even to suit customer's specific requirements. Our machines are ideally suited for primary/ secondary crushing.

Unlike the old, complicated 'Swing Jaw' type crushers, the BIMIX Overhead Eccentric Jaw Crushers are simple, productive, power efficient and easy to maintain. Our design generates "two stroke' powerful 'for feed' crushing action, which begins at the top and ends at the bottom of the jaw plates, for each revolution of the flywheels. This also reduces compaction and discharged material flows freely, unlike the swing jaw type design that tends to compact material at the bottom, leading to chocking of jaws.

The open top design of **BIMIX Machines Pvt. Ltd.** Jaw Crushers not only faciliate the feed of the crushing chamber but also makes jaw inspection, maintenance and replacement very convenient.

BIMIX Machines Pvt. Ltd. jaw crushers are exceptionally strong and durable. This superiority over other manufacturers is achieved through engineering skill and robust construction.

Stress management is a vital aspect in jaw crushers. Instead of attempting only to compensate to excessive operating stress we work towards reducing it, through our stress-managed design. The stress-managed disign of **BIMIX Machines Pvt. Ltd.** reduces complication in the machine and make it more efficient, which in turn results into extra component life, less maintenance and improved yield. For maximum life and trouble free operation, each feature must compliment and enhance the operation of all the others. So every frame has been carefully designed to provide maximum quality and performance.

The Best Jaws of It's Kind

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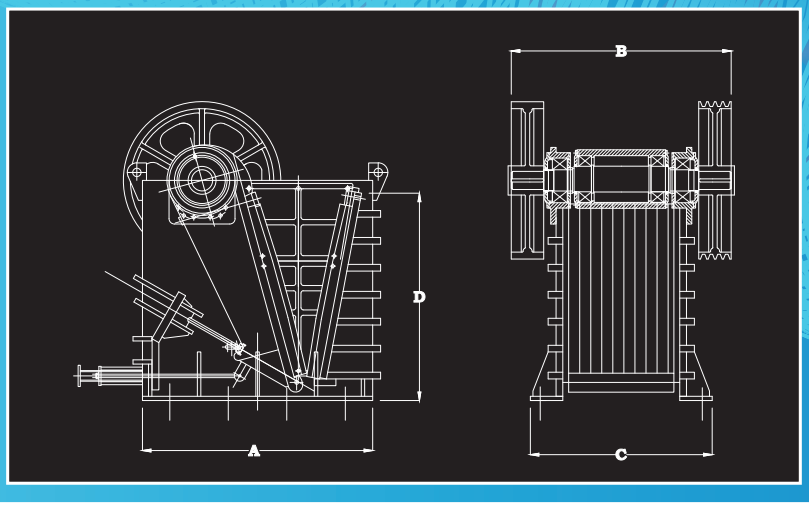

Model		2010	2412	2406	3608	4204	4809	2415	3015	3024	3628	4032	4834	4840
Size in mm		500 x 250	600 x 300	600 x 150	900 x 200	1050 x 100	1200 x 225	600 x 375	750 x 375	750 x 600	900 x 700	1000 x 800	1200 x 850	1200 x 1000
DIMENSIONS	A	1400	1610	1375	1525	1050	1660	1820	1755	1940	2175	2300	2600	2400
	B	1660	1735	1660	2000	1650	2360	1735	1710	1790	2000	2085	2380	2380
	C	905	1035	1035	1370	1470	1675	1035	1270	1280	1635	1710	1900	1900
	D	990	1140	875	870	1072	1015	1200	1180	1440	1785	2070	2175	2120
Power		30 HP	50 HP	30 HP	50 HP	40 HP	75 HP	50 HP	50 HP	75 HP	100 HP	125 HP	180 HP	180 HP
RPM		300	300	330	330	330	330	300	300	300	280	275	275	265
FEED SIZE		225	275	125	175	40	200	350	350	500	600	700	700	900
WT (TONS)		3.8	7.1	4.1	8.1	4.7	12	7.4	8.8	12	18.1	24	33	35

Cushing capacity in cubic Mtrs/Hr

SETTING IN mm														
	12	9.9	-	12	16	5.5	-	-	-	-	-	-	-	-
	20	10.5	14.2	13.2	17.5	-	30	-	-	-	-	-	-	-
	25	11.8	15.4	14.5	19	-	34	19	-	-	-	-	-	-
	40	15	19	-	-	-	-	22	30	-	-	-	-	-
	50	17	22	-	-	-	-	26	32	-	-	-	-	-
	75	-	26	-	-	-	-	30	35	-	-	-	-	-
	100	-	-	-	-	-	-	35	40	-	-	-	-	-
	125	-	-	-	-	-	-	-	-	50	75	110	160	-
	150	-	-	-	-	-	-	-	-	55	85	120	170	-
	200	-	-	-	-	-	-	-	-	-	100	140	195	210
	250	-	-	-	-	-	-	-	-	-	-	-	-	235

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CONE CRUSHERS

BIMIX Machines Pvt. Ltd. Cone Crushers with its' innovative features is most preferred cone crusher of many aggregate producers. The robust design of BIMIX Cone Crushers is based on two point supported main shaft that allows high performance steep cavity designs. Main shaft is vertically supported with a hydraulic cylinder that is used for holding or moving the Main Shaft vertically to adjust the crushing process automatically and continuously under load. This stronger design allows high crushing performance due to high power and crushing force levels utilized.

BIMIX Machines Pvt. Ltd. Cone Crushers can be easily adjusted to different types of production requirements with change of cavities, eccentric strokes, counter shaft speeds and different control methods.

Simple strong two-point supported shaft design ensures mechanical reliability. Automation system continuously monitors crusher load and operating parameters to ensure optimal operating condition maximizing availability. Stable performance trough liner life.

Due to cavity design feed opening is maintained and wear part profile change is minimized through liner life. This ensures stable crusher throughput capacity and plant operation through wear part life.

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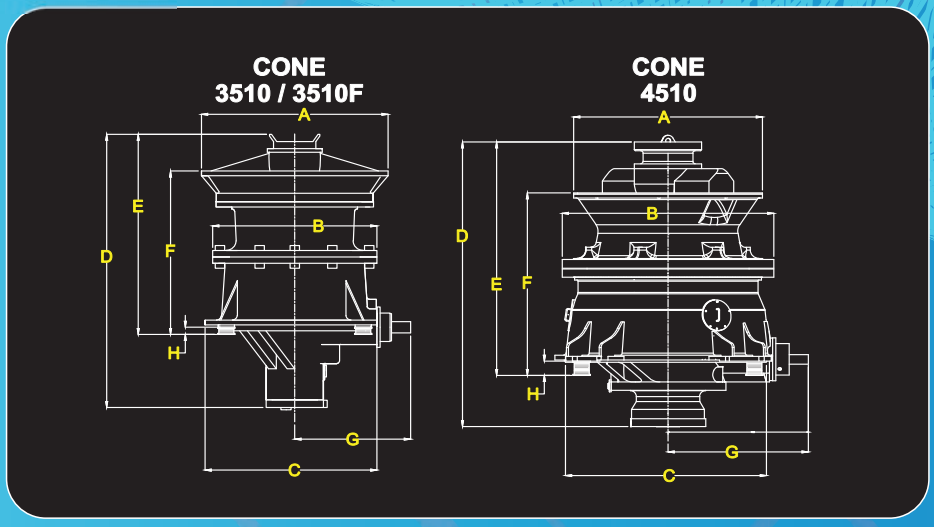

DIMENSIONS in mm								
CONE	A	B	C	D	E	F	G	H
3510	1500	1320	1380	2296	1682	1373	930	60
3510-F	1500	1320	1380	2072	1428	920	930	60
4510	1340	1600	1524	2278	1775	1274	1254	120

ALMEIDA SECONDARY STANDARD (STD) CRUSHERS					
MODEL	NOMINAL FEED	MOTOR SIZE (HP)	MAX WEIGHT LIFTING DURING LINER CHANGE	TOTAL WEIGHT	THROUGHPUT
3510	150 MM	120 HP	1900 KG	8500 KG	120
3510-F	50 MM	120 HP	1900 KG	8500 KG	90-100
4510	175 MM	270 HP	3500 KG	12000 KG	250

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VERTICAL SHAFT IMPACTORS

SALIENT FEATURES

- **BIMIX Machines Pvt. Ltd.** vsI Machines are easily portable & can be installed quickly with minimum support structures.
- Rock on Rock technology minimises wear & tear of parts, resulting into minimum operating & wear cost.
- Aggregates with excellent cubical shape.
- Low Investment.
- Benificiation of material. (elimination of soft stone)
- Consistency in Gradation.
- High Product Yield.
- High Fracture Percentage.
- High Throughput Capacity.
- Easy to maintain.
- Worn out parts can be easily replaced hence lesser downtime.

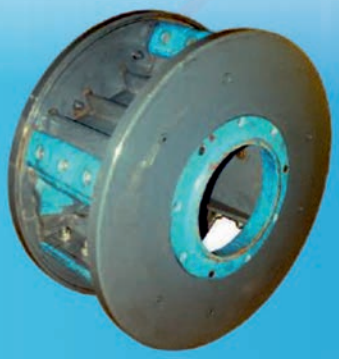
BIMIX Machines Pvt. Ltd.

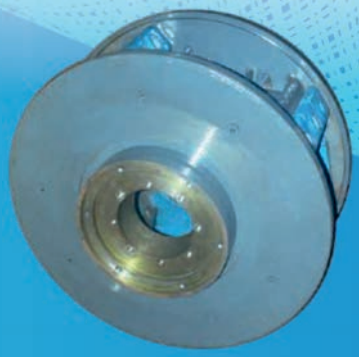
The leaders in Jaw Crushers Technology are proud to introduce the Vertical Shaft Impactors. It is a next generation tertiary machine designed & manufactured with quality workmanship. Hence a robust & tertiary machine for concrete aggregates, sand manufacturing, asphalt mixing & materials for road base.

BIMIX Machines Pvt. Ltd. VSI-How it Works

It works on the principle of centrifugal force. Material to be crushed is fed into centre of the rotor, through a vertical tube. The rotor rotates at high speed of 50-70 m/sec (25-30 RPS). Due centrifugal force the feed material starts attaining speed & gets distributed over the distribution rock box. As the material reaches the rotor vanes, towards the periphery, attains the same speed as the speed of rotor's periphery. At the instant of leaving the rotor, material attains a velocity which is the resultant of peripheral velocity & redial velocity due to centrifugal force. The direction of resultant velocity is almost 45^0 to radial direction.

The high velocity feed particles attain tremendous kinetic energy, so after impact against the breaking surface, stresses are developed within the particles & they disintegrate into number of pieces.





BIMIX Machines Pvt. Ltd. Manufacture ROCK-ON-ROCK TYPE VSI: Rotor is designed in such a manner that stone layer gets formed on the vane & breaking surface is also formed by material built up. This reduces wear & tear of both, vanes & breaker walls. The advantage of this type of VSI is that, spare consumption is reduced but the cushioned surfaces reduce considerably the amount of crushing.

VERTICAL SHAFT IMPACTORS Models at a Glance

Model	50	80	120	250	300
Max. Feed size mm.	15	28	28	35	35
Throughput (TPH)	50	80	120	200	250
Rotor Diameter in mm.	650	750	750	910	1020
RPM	1440	1440	1440	1440	1440
Power in HP	75	120	120	220	300

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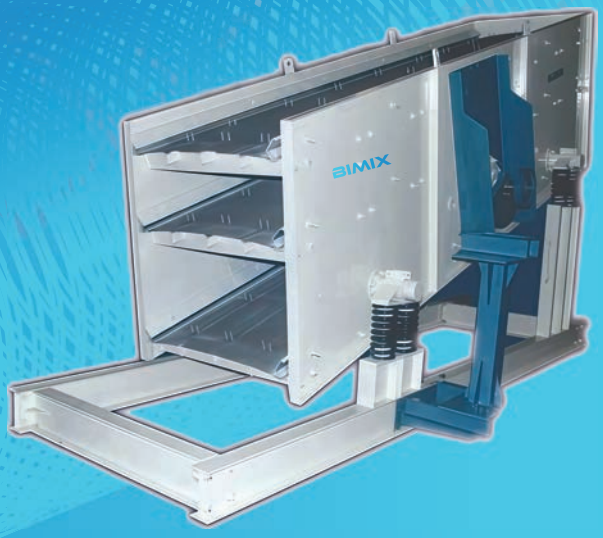
VIBRATING SCREEN

BIMIX Machines Pvt. Ltd. **Vibrating Screens are designed and manufactured with modern technology on highly sophisticated machinery under stringent quality control. the robust design of our Vibratory Screen gives maximum output with minimum screening area and power consumption.**



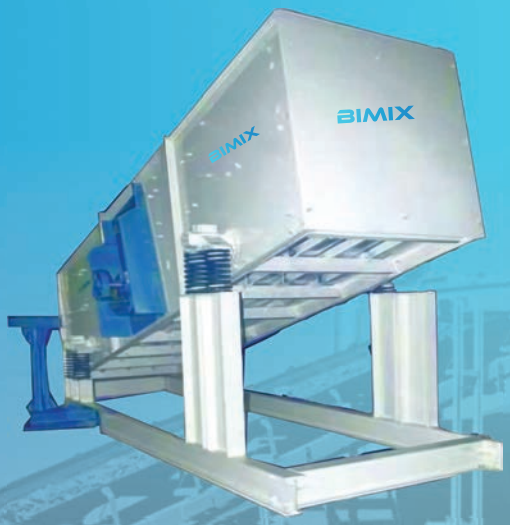
BIMIX Machines Pvt. Ltd. Vibrating Screens are designed to make separation/ filteration of crushed material from fine dust to oversized material.

The bolted and welded steel structure forms the screen frame that accommodates the screen mesh and drive unit. The screen comprises of an eccentric shaft, made out of alloy steel and two no. of heavy duty double spherical bearings with dust and watertight seals, for efficient operation and low maintenance.

The BIMIX screen are driven by electric motors. The screen frame rest on four spring units provided on support structure, so as to eliminate jerks to the supporting system and vibrate smoothly in a linear motion.

The angle of the screening unit is so adjusted that it provides the same vibration to all part of the screen, resulting into proper filtration/ screening of crushed material of different sizes simultaneously, while separating oversized material.

Single Shaft Type Vibrating Screen				
Model	Size (mm)	No. of Decks	Motor Power	
			Kw	HP
TSVS20x05	6000 X 1500	II	11.18x1	15
		III	14.91x1	20
		IV	16.40x1	25
TSVS18x05	5400 X 1500	II	11.18x1	15
		III	14.91x1	20
		IV	16.40x1	25
TSVS16x05	4800 X 1500	III	9.32x1	12.5
		IV	11.18x1	15
TSVS16x04	4800 X 1200	II	7.45x1	10
		III	9.32x1	12.5
		IV	11.18x1	15
TSVS14x05	4200 X 1500	III	7.45x1	10
		IV	9.32x1	12.5
TSVS12x05	3600 X 1500	III	7.45x1	10
		IV	9.32x1	12.5
TSVS12x04	3600 X 1200	III	7.45x1	10
TSVS08x04	2400 X 1200	III	5.59x1	7.5



Twin Shaft Type Vibrating Screen				
Model	Size (mm)	No. of Decks	Motor Power	
			Kw	HP
TSVS20x06	6000 X 1800	III	9.32 x 2	12.5 x 2
		IV	11.18 x 2	15.0 x 2

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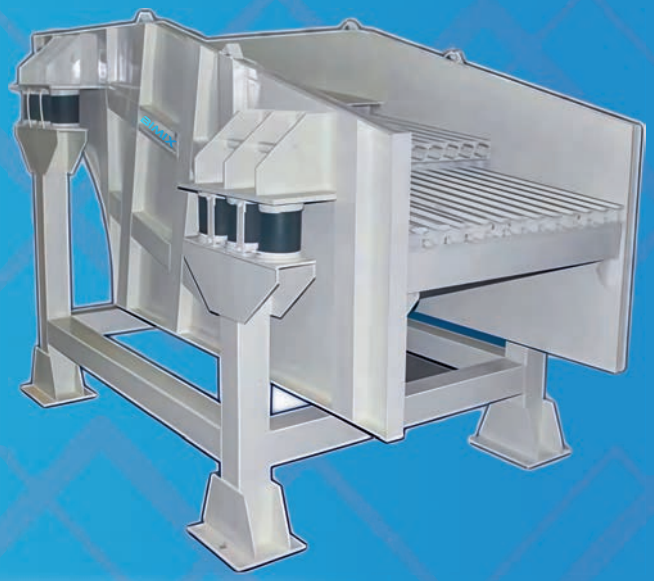
GRIZZLY FEEDER

- Heavy Duty Grizzly Feeder
- Capacity from 50 TPH to 250 TPH
- Center Shaft Type/ Unbalanced Motor Type.

Grizzly Feeders		
Size (mm)	Motor Power	
	Kw	HP
4000 X 1300	18.64 – 22/37	25 – 30
3600 X 1200	14.91 – 18.64	20 – 25
3000 X 1200	11.18 – 14.91	15 – 20
2400 X 750	11.18	10
1800 X 750	11.18	10

VIBRO FEEDER

- Heavy Duty Vibro Feeder Capacity from 50 TPH to 250 TPH
- Unbalanced Motor Type.



Vibro Feeders		
Size (mm)	Motor Power	
	Kw	HP
4000 X 1300	5.59 X 2	7.5 X 2
3500 X 1200	3.72 X 2	5 X 2
2400 X 1000	2.23 X 2	3 X 2
1200 X 900	0.745 X 2	1 X 2

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At Bimix Machines, we're didicated to providing you with expeptional service and ensuring your experience with our products is nothing short of delightful.

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