INNOTECH
ENGINEERING

A SUBSIDIARY OF TECHINOVA ENGINEERING ANALYSIS SERVICES LLP

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" QUALITY JUDGES, SERVICE ENSURES, GUARANTEE
PROVES THE EXCELLENCY OF OUR COMPANY "

Company Profile

Techinova is established in the aim to serve the Engineering sector. Taken forward by a team of experienced engineers, the company has traveled many milestones and achievements from private as well as government organizations. Today we have a team of experienced engineers working for different fields of engineering who are selected from reputed institutions across India, an established factory in Maharashtra, and five offices pan India.

Innotech Engineering is a subsidiary division of the TECHINOVA , who has involved in construction and mining industries. We aim to be the premier global provider of innovative solutions for the engineering sector. We embrace new work cultures and have a comprehensive range, we are the complete solution provider for mining and construction industries, with high focus on quality and performance. We also have proven advantage in performance and versatile applications at optimal costs. Quality is guaranteed by the incorporation of latest technologies and processes. The product line comprises of a comprehensive range of jaw crushers, Vertical Shaft Impactors (VSI), Feeders, Vibrating Screen, Roll crusher, Bucket elevator, Screw conveyor, Chain conveyor, Apron feeder, Ball mills etc. Material handling equipment, Air pollution units, Bucket elevators, Customized equipment like Heat exchangers, Tanks, vessels, Pipe lines, reheat furnaces, Roller S furnaces, Gratings and Hand rails, Centrifugal pump (For Industrial purpose), Tower structures related to Electrical and Telecommunications (Including Civil erection to complete product erection and Commissioning). Besides that we are taking outsourcing projects from different companies which include Structural parts, customized equipment, pipes and fittings, Maintenance of plant.

We focus on providing best latest technology equipment's to our customers which are high productive, lower maintenance, lower cost per ton concept, optimum utilization by following the work procedure like Planning of material, Quality check (Dimensional verification, DP test etc.), fabrication, machining, Assembling with finishing, Painting and Dispatch.





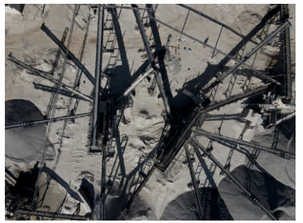










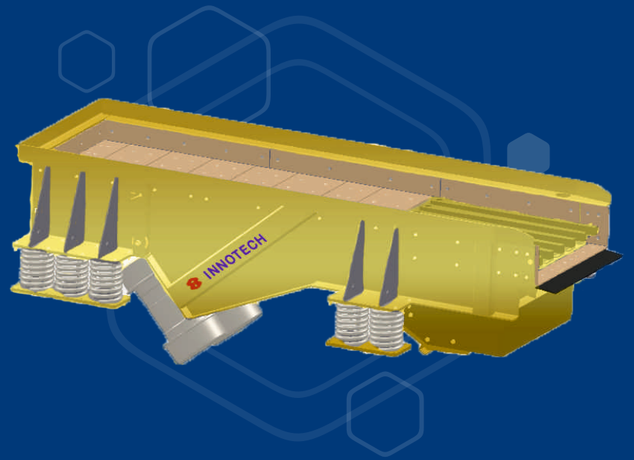



Grizzly Feeder

The Vibro feeders with Grizzly sections control the feed rate to the crusher by removing unwanted material & bypassing the smaller material to the crusher for maximizing crushing capacity.

This type of feeder can be used in queries, recycling, industrial processing, mining, sand and gravel operations and a wide range of processing industries.

INNOTECH make grizzly feeder has a very good reliability and durability. The vibrating force is calculated and designed in such a way that the line of force is acting towards discharge to increase the performance and efficiency of machine.



Machine Performance:

- Adjustable bolted grizzly bars to meet specific requirement of the user. Adjustable grizzly bars are given for adjustment of size of particle to bypass.
- Abrasive resistant liners has been given with counter sunk bolts for smooth flow of materials.
- Heavy welded frame and duty helical coil springs has been given at sides.
- Special Quality vibrating Motor. Vibrating Grizzly Feeders are designed to take heavy shock loads from trucks, shovels and loaders.

TECHNICAL SPECIFICATION

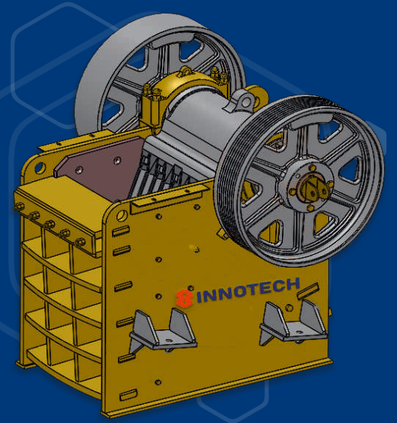
Model	Tray dimension	Drive Mechanism	Power (HP)	Capacity TPH	Top feed size(mm)
IGF 1245	1200 x 4500	Vibro motor	2 x 7.5	400	700
IGF 1555	1500 x 5500	Vibro motor	2 x 10	600	900

JAW CRUSHER

INNOTECH is a leading manufacturer of jaw crusher. We manufacture larger feeding capability single toggle jaw crusher to meet customer need. Jaw crusher is a crushing machine used for crushing large materials into smaller materials. It is widely used to reduce the size of bulk material into finer particles. INNOTECH IJC series have different feed size opening jaw crusher.

In single-toggle jaw crushers, the moving crusher operates in an elliptical pattern while in double-toggle jaw crushers, a pendulum motion is utilized in order to crush hard materials.

Jaw Crushers are sized by the top opening of the crushing chamber. For example, a 42 x 32 Jaw Crusher measures 42" from jaw die to jaw die at the top opening or gape opening and 32" across the width of the two jaw dies.



Machine Performance:

- High acceptance capability with varying crushing and abrasive index.
- Safety shear pin provides faster and safer maintenance than a typical breakable toggle plate.
- Step less, safe, easy and fast CSS adjustment mechanism.
- Fully welded construction distributes even load across all directions.
- Simple structure easy maintenance.
- Stable performance.
- Even final particles and high crushing ratio.
- Large balanced flywheels supply continuous inertia to the crushing mechanism.
- Discharge conveyor sized to convey maximum crusher capacity.

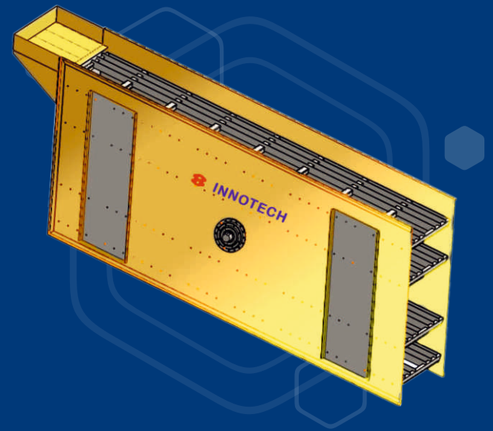
TECHNICAL SPECIFICATION

Model	IJC 3242	IJC 2836	IJC 2436	IJC 1224	IJC 0836	IJC 0842
Feed Opening (mm)	750 X 1050	700 X 900	600 X 900	300 X 600	200 X 900	200 X 1050
Feed Size (mm)	700	600	450	280	185	185
CSS Range (mm)	75-200	50-175	50-185	35-75	30-90	30-110
Capacity (TPH)	150-400	60-300	50-280	25-40	30-50	35-60
Motor Power (HP)	125	100	75	50	60	60

VIBRATING SCREEN

The INNOTECH screens with steel main body are produced for long term use. Installation and maintenance of the vibrating screens is very simple, thanks to the ladder system next to them can be done easily. Screens that can be produced in any size can also have multi-layer shelf system depending on the characteristics of the product to be screened. Each innovation, as well as contributing to the country's economy, contributes to the development of many sectors.

The vibration is generated from an unbalanced flywheel. A very erratic motion is developed when this wheel is rotated. If the rock is small enough it will be removed from the circuit. The large rock will, of course, be taken to the next stage in the process. A vibrating mechanism attached to the middle of the screen imparts rapid vibrations of small amplitude to its surface, making the ore, which enters at the top, pass down it in an even mobile stream.



Machine Performance:

- Separation of material desired on each deck.
- The adjustment of the screen surface angle can be realized by changing the position and height of the spring support.
- A reliable design to get optimum efficiency.
- Optimum screening area for relevant capacity of screen.
- As per standard a type of bending parts are given for tensioning the mesh surface for efficient screening.
- Screens are provided with a feed area or feed box so that the bigger material impact will not directly act on screen mesh.
- Independent drive system.
- Lower operational cost & less maintenance cost equipment.

TECHNICAL SPECIFICATION

Model	Screen Size (mm)	Screening Area (sq.m.)	No. of Decks	Motor Power	Capacity (TPH)
IVS 1550	1500 x 5000	7.5	1, 2, 3, 4	10/ 15/ 20	250
IVS 1855	1800 x 5500	9.9	2, 3, 4	20/ 25	400
IVS 2060	2000 x 6000	12	2, 3, 4	30/ 40	600
IVS 2070	2000 x 7000	14	2, 3, 4	40/ 45	750

CONE CRUSHER

INNOTECH crusher material is crushed between a fixed and a movable plate by reciprocating pressure until the crushed product becomes small enough to pass through the gap between the crushing plates. Capacities and product gradations produced by Cone Crushers are affected by the method of feeding, characteristics of the material fed, speed of the machine, power applied, and other factors. Hardness, compressive strength, mineral content, grain structure, plasticity, size and shape of feed particles, moisture content, and other characteristics of the material also affect production capacities and gradations. Gradations and capacities are most often based on a typical, well-graded choke feed to the crusher.

Machine Performance:

- Large feed opening.
- High Productivity.
- Easily adjustable setting for load/ power based input & crushing material.
- Low maintenance cost.
- Easy automation & greatest reliability.
- Best power utilization per cone diameter.
- All components are accessible from the top.

TECHNICAL SPECIFICATION

Model	IEC 125	IEC 160	IEC 220	IEC 250
Feed Size	145	180	220	230
Max Input size	120	150	190	200
CSS Range	22 - 28	15 - 35	18 - 40	18 - 40
Motor Power (HP)	100 - 125	125 - 160	180 - 215	220 - 270
Capacity (TPH)	75 - 160	100 - 215	140 - 300	160 - 300

HYDRAULIC CONE

INNOTECH developed to crush the feed material into first class products efficiently and economically. INNOTECH cone crusher offer the highest crushing efficiency and end product quality with lowest cost per production. The extra weight means lower stress on the machine, which result in longer operational life, the structure improves the performance and crushing capability a lot. With the rapid development of mining technology.

Crushing loads are distributed over a large spherical bearing. The socket liner keeps full contact with the crushing head ball and carries all of the vertical component and part of the horizontal. The long force arm, represented by the main shaft, reduces the load transmitted through the eccentric bushing.

INNOTECH Cone Crusher's life and maintain optimal crushing capacities, an automatic liner change reminder is included for your convenience. When the new mantle and liners are installed, the automated reminder is reset.

Machine Performance:

- High Productivity , Highest Reduction ration.
- Low operating cost and wear cost.
- Instant crusher gap setting arrangement through main shaft control system.
- Best power utilization per cone diameter.
- Reasonable structure, developed crushing principle, advanced technical data, reliable work and low cost.
- Strong crushing ability, high efficiency and large capacity
- Reliable hydraulic system and effective overload protection.
- Optional crushing cavity can improve the material size range.
- Hydraulic adjustment and hydraulic clean cavity can improve automation degree greatly.

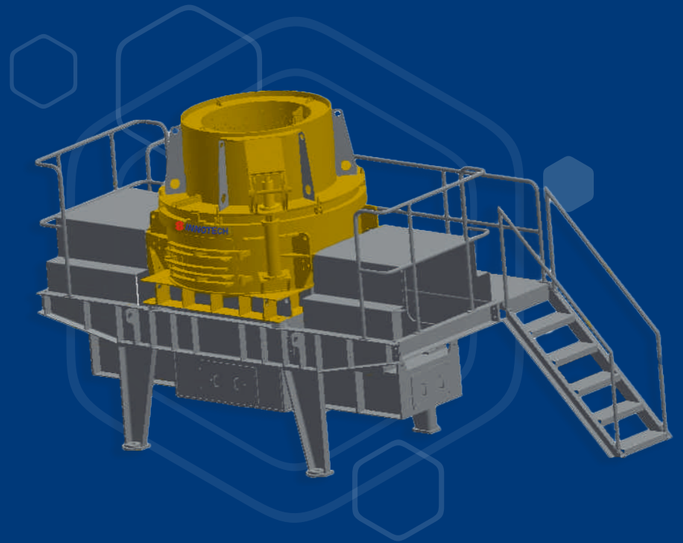
TECHNICAL SPECIFICATION

Model	IHPC 125	IHPC 150	IHPC200	IHPC250	IHPC 300	IHPC 350
Feed Size	160	160	185	185	235	235
CSS Range	22-32	22-32	22-38	22-38	22-51	22-51
Motor Power	120	120	220	220	300	300
Capacity	120-150	120-150	170-225	170-225	245-400	245-400

VSI (VERTICAL SHAFT IMPACTOR)

Autogenously configuration produces more specific material in a single pass. Efficient design decreases horsepower requirements. Reversible, replaceable and adjustable wear parts reduce operating cost.

The rock breaks and the potential energy is stored in the rock which falls down due to gravity. The high impact force subjected on the particles breaks its sharp edges and reduces them into cubical form. The VSI's high cubical fracture percentage maximizes first-pass product yield and produces tighter particle size distribution.



Machine Performance:

- Robust design to get lesser operating cost.
- Modular design the quick and easy replacement of spare parts.
- Optimum design to work on lesser power.
- Wear & tear components life is more to get less maintenance cost.
- Rotor speed is optimized on each model to get better production capacity.
- Vibration sensor to monitor and control vibrations within the range.
- Low wear and tear due to autogenous Rock on Rock Crushing.

TECHNICAL SPECIFICATION

Model	IV 100	IV 150	IV 200	IV 250
Max Recommended feed size	40	48	53	58
Rotor Speed	45-70	45-70	45-70	45-70
Nominal Throughput Capacity	75-130	130-200	170-300	200-370
Motor Power (Hp)	150	200	250	300

WASH PLANT

INNOTECH Wash Plants can be designed as either a stationary or portable plant. Wash equipment has been designed and perfected to solve this issue while also assuring that construction aggregates and sand can meet ever more stringent specifications and be saleable. The feed of material coming off the transverse spiral belt to the sluices is at a steady flow rate to prevent surging and the loss of fine mineral particles.

Machine Performance:

- Portable chassis frames on axles & tires.
- Walkways, handrails, and platforms for maintenance & service.
- Ladders for easy accessibility.
- Stationary structured frames.
- Rapid Assembly.
- Maximum recovery.
- Low energy consumption.
- Low total cost of ownership.

TECHNICAL SPECIFICATION

Model	Capacity	Dewatering Size	Hydro Cyclone	Slurry pump Size
IWP 100	80-100	3*1.7	400	4*3
IWP 150	120-150	3*1.7	500	6*4
IWP 200	160-200	4*1.7	600	8*6
IWP 250	220-250	4*1.8	700	10*12

HSI (HORIZONTAL SHAFT IMPACTOR)

The HSI is designed in such a way that customer can achieve optimum efficiency of product. Blow bars are used of high Chrome Steel or alloys. With three- or- four -bar configuration, large feed opening and high-performance rotor, INNOTECH impact crusher are well- suited for a variety of applications.

In an HSI crusher, material is crushed from the impact of fast-moving bars attached to the rotor. This material is continually crushed by the impact of the bars until it becomes fine enough to be shaped into a high-quality end product.

Impact plate has a special shape, with easy maintenance and reliable operation, connected with locking sleeve assembly and the blow bar of high chrome steel. Due to the robust design the maintenance cost is coming down to very low.

Machine Performance:

- Hydraulic adjustment mechanisms for primary and secondary curtains.
- Rotors utilize an operator friendly centrifugal wedge system.
- Rotor designed to minimize likelihood of catastrophic damage by blow bar breakage.
- Cubicle Shaping of the end product.
- Compact, simple & swift in operation.
- Wearing parts can be easily replaceable.

TECHNICAL SPECIFICATION

Model	Rotor Diameter	Rotor Width	Motor (KW & RPM)	No. of Impact Bars	Total Equipment weight (KG)	Capacity (TPH)
IM 88	800	800	45/ 1480	8	1250	40-65
IM 108	1000	800	22/ 975	12	3500	50-75
IM 1012	1000	1200	90 / 1000	8	5500	75-120
IM 1212	1200	1200	175 / 1485	8	6500	120-150
IM 1414	1400	1400	200 / 1500	8	7800	150-250