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The finest choice for sustainable value addition of natural resources in the world, Hailstone innovations Pvt Ltd., is one of the leading construction and mining equipment manufacturer from India. Hailstone specializes in engineering, designing, fabrication and manufacturing of capital equipment and completion of turnkey projects for the mining and aggregates industries. We provide safe, secure, low operating cost and highly efficient machines for our patrons that perfectly suit their requisites.

The Hailstone infrastructure comprises a stellar assemblage of state of the art machinery, tools, and instruments / machines to craft world-class construction and mining equipment for the global customers. As a fast-growing professionally managed organization in the sustainable mineral processing industry, we hold a great responsibility towards our clients, employees, partners, environment and the society.

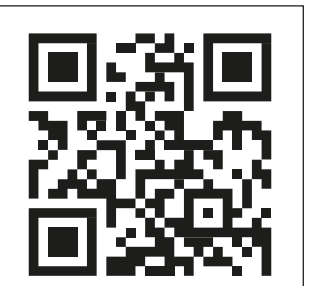
All along this wonderful journey, shouldering this responsibility in the best possible way have been our strategy to operate in this world. Through innovation, we deliver ingenious solutions for the industry.

The client can feel quality and trust in our equipments which helps and motivates us to better serve the world. With an agile approach and far-reaching global presence, we have been able to achieve and maintain sustained growth for some time now. An effective organization structure has been shaped over the years which awards the firm an operational excellency on par with some of the best-run enterprises in the world.

By embracing latest innovative digital services and goods, we have committed ourselves to deliver the best to our clients. In Hailstone, the strategy is always innovate the most efficiently to make the customer succeed to prosperity.

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# HAILSTONE TRACK JAW

## BAHNTRACK-BT Series

### HIGH MAST LIGHT

Lighting over a large area  
High performance

### JAW CRUSHER

Strong bolting for better strength  
Swinging motion for cavity adjustment  
Lesser maintenance & high mechanical efficiency

### GRIZZLY FEEDER

Efficient material flow with high stroke vibrating unit  
Long life & easy maintenance  
Wear resistant Grizzly liners

### FEED HOPPER

Hydraulically foldable  
Wear resistant  
Extension for more volume capacity

### CONVEYOR

1000 belt width discharge conveyor  
Conveyor driven by motorized pulley  
Hydraulically foldable

### CONVEYOR

650 belt width dust conveyor driven by motorized pulley  
Hydraulically adjustable

### MAGNETIC CONVEYOR

1000 beltwidth magnetic conveyor  
Electric motor driven belt conveyor  
Permanent magnet & height adjustable

### Extensive platforms for maintenance

Optimized weight & more lifetime  
Mobility on uneven terrain

QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE

# HAILSTONE TRACK JAW BAHNTRACK-BT Series

QUICK INSTALLATION | FAST MOBILITY | HYBRID MACHINE

Hailstone track mounted jaw crusher is used as a primary crusher in a multistage crushing process or as a stand-alone unit. It is ideal for medium-sized aggregates production, as well as recycling of demolition waste such as concrete & road waste.

Hailstone track mounted jaw crusher is equipped with jaw crushing unit, specially designed for crushing hard rock types such as granite, basalt, gneiss & various other mineral ores.

The track mounted crushers are equipped with dual power source; the plant's electrically driven power systems provide significant cost advantages and environmental efficiencies. Hailstone mobile jaw crusher is mounted on tracks, so it can be easily moved inside a quarry or construction site and transported between sites on a low bed truck. The compact dimensions and agility on tracks reduce operational costs.

## Salient Features

- ☒ Compact Track Mounted Crusher
- ☒ Durable & Rigid Design
- ☒ Safe And Easy Maintenance
- ☒ Energy Efficient And Economical
- ☒ Plug In Electrical And On Board DG Options For Power
- ☒ Easily Maneuverable Track Drive System
- ☒ Optional Wireless Track Drive System
- ☒ Hybrid & Environmental Friendly

Technical Spec

Model		BT130	BT145	BT180
<b>Crusher</b>				
Model		JC130	JC145	JC180
Opening Size	mm (in)	1067 x 850 (42 x 33.5)	1148 x 813 (45 x 32)	1194 x 915 (47 x 36)
CSS Range	m m	70 - 200	70 - 200	70 - 175
*Capacity	TPH	127 - 520	150 - 550	180 - 545
<b>System</b>				
Hopper Capacity	m <sup>3</sup>	8	8	8.5
Grizzly Feeder		GFEM4211	GFEM4211	GFEM4212
Feeder Size	mm (in)	1100 x 4200 (43.3 x 165.3)	1100 x 4200 (43.3 x 165.3)	1200 x 4200 (47.2 x 165.3)
<b>Main Conveyor</b>				
Belt Width	mm (in)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Discharge Height	mm (in)	3900 (153.5)	3900 (153.5)	3900 (153.5)
Stock Pile Capacity	m <sup>3</sup>	87	87	87
<b>Bypass Conveyor</b>				
Belt Width	mm (in)	650 (25.6)	650 (25.6)	650 (25.6)
Discharge Height	mm (in)	2200 (86.6)	2200 (86.6)	2200 (86.6)
Stock Pile Capacity	m <sup>3</sup>	15	15	15
<b>Under Carriage</b>				
Shoe Width	mm (in)	500 (20)	500 (20)	500 (20)
Gradability		25°	25°	25°
Hydraulic Tank Capacity	litre	200	200	200
<b>Power Unit</b>				
Engine		CAT C7.1 - with LS Alternator	CAT C7.1 - with LS Alternator	CAT C9.3B - with LS Alternator
Diesel Tank Capacity	litre	600	600	600
<b>Dimensions</b>				
TRANSPORT (L x W x H)	mm (in)	14900 x 3340 x 4070 (586.6 x 1315 x 160.2)	15600 x 3000 x 3600 (614 x 118 x 141.7)	16650 x 3000 x 3900 (655.5 x 118 x 153.5)
WORKING (L x W x H)	mm (in)	15900 x 5550 x 5300 (625.9 x 218.5 x 208.7)	15900 x 5550 x 5300 (625.9 x 218.5 x 208.7)	16650 x 5550 x 5300 (625.9 x 218.5 x 208.7)
WEIGHT	kg (lb)	53000 (116845)	57000 (125664)	64000 (141095)



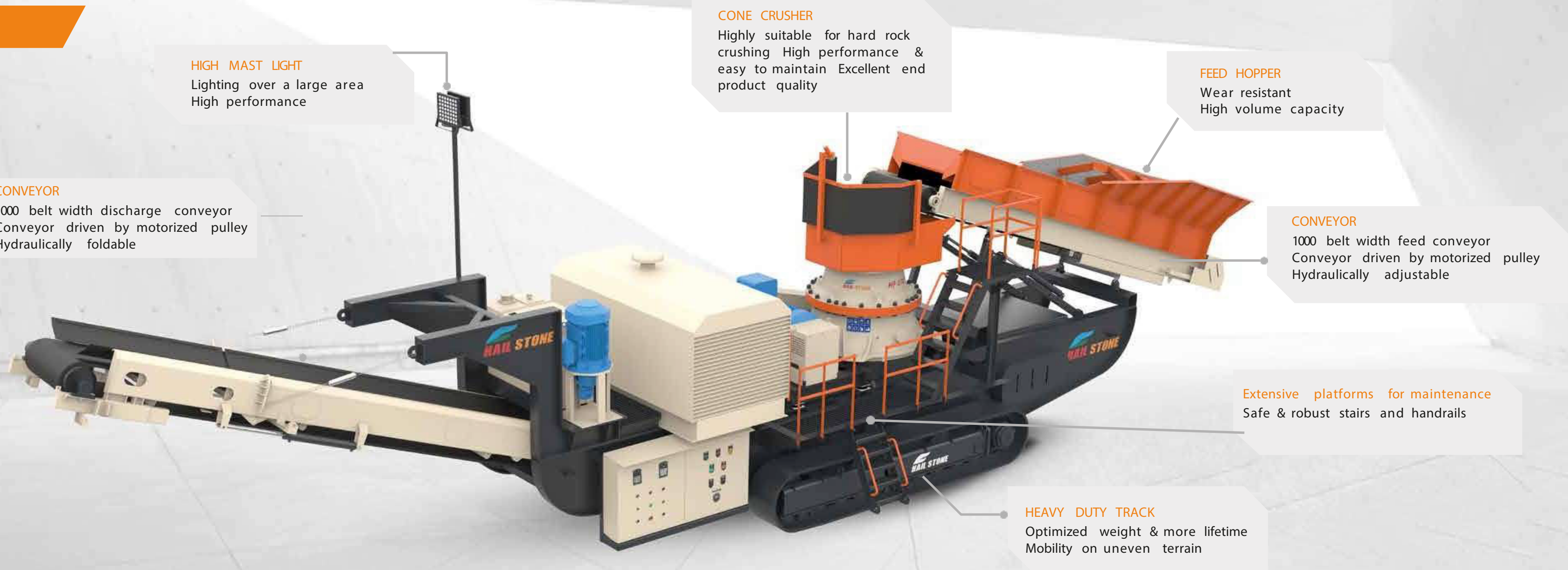
# HAILSTONE TRACK CONE

## BAHNTRACK-BT Series

QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE



### HIGH MAST LIGHT

Lighting over a large area  
High performance

### CONE CRUSHER

Highly suitable for hard rock crushing  
High performance & easy to maintain  
Excellent end product quality

### FEED HOPPER

Wear resistant  
High volume capacity

### CONVEYOR

1000 belt width discharge conveyor  
Conveyor driven by motorized pulley  
Hydraulically foldable

### CONVEYOR

1000 belt width feed conveyor  
Conveyor driven by motorized pulley  
Hydraulically adjustable

Extensive platforms for maintenance  
Safe & robust stairs and handrails

### HEAVY DUTY TRACK

Optimized weight & more lifetime  
Mobility on uneven terrain

# HAILSTONE TRACK CONE BAHNTRACK-BT Series

QUICK INSTALLATION | FAST MOBILITY | HYBRID MACHINE

Hailstone track mounted cone crusher is used as a secondary crusher in a multistage crushing process or as a stand-alone unit. It is ideal for medium-sized aggregates production, as well as recycling of demolition waste such as concrete & road waste.

Hailstone mobile cone crusher is mounted on tracks, so it can be easily moved inside a quarry or construction site and transported between sites on a low bed truck. The compact dimensions and agility on tracks reduce operational costs.

Hailstone track mounted cone crusher is equipped with cone crushing unit, specially designed for crushing hard rock types such as granite, basalt, gneiss & various other mineral ores. The track mounted crushers are equipped with dual power source; the plant's electrically driven power systems provide significant cost advantages and environmental efficiencies.

## Salient Features

- ☒ Compact Trackmounted Crusher
- ☒ Suited For Rugged Application
- ☒ Ready To Install & Commission
- ☒ Plug In Electrical And On Board DG Options For Power
- ☒ Hybrid & Environmental Friendly
- ☒ Optional Wireless Track Drive System
- ☒ Easy Maneuverable Track Drive System

## Technical Spec

Model	BT270HF	BT3000EC	BT2000EC	BT3500EC
<b>Crusher</b>				
Model	HF270	EC3000	EC2000	EC3500
Opening size	mm (in) 195 (7.7)	210 (8.2)	185 (7.3)	245
Css range	mm (in) 24 - 45 ( 0.9 - 1.8)	24 - 45 ( 0.9 - 1.8)	19-38 (0.75 - 1.5)	22-45
capacity	TPH 70 - 280	90 - 400	150 - 260	220 - 485
<b>System</b>				
Hopper capacity	m <sup>3</sup> 6.1	6.1	6.1	6.1
Feed belt width	mm (in) 1000 (39.4)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Feed height	mm (in) 2300 (90.5)	2300 (90.5)	2300 (90.5)	2300 (90.5)
<b>Feed conveyor</b>				
Belt width	mm (in) 1000 (39.4)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Discharge height	mm (in) 3900 (153.5)	3900 (153.5)	3900 (153.5)	3900 (153.5)
Stock pile capacity	m <sup>3</sup> 70	70	70	70
<b>Under carriage</b>				
Shoe width	mm (in) 500 (20)	500 (20)	500 (20)	500 (20)
Gradability	30 <sup>o</sup>	30 <sup>o</sup>	30 <sup>o</sup>	30 <sup>o</sup>
Hydraulic tank capacity	litre 200	200	200	200
<b>Power unit</b>				
Engine	CAT C13 with LC6124C Alternator	CAT C13 with LC6124C Alternator	CAT C9.3 with LC6124C Alternator	CAT C13 with LC6124C Alternator
Diesel tank capacity	litre 600	600	600	600
<b>Dimensions</b>				
Transport (l x w x h)	mm (in) 16585 x 3300 x 3800 (652.9 x 186.8 x 178.7)	16585 x 3300 x 3800 (652.9 x 186.8 x 178.7)	16585 x 3300 x 3800 (652.9 x 186.8 x 178.7)	16585 x 3300 x 3800 (652.9 x 186.8 x 178.7)
Working (l x w x h)	mm (in) 18977 x 4744 x 4540 (747.1x 186.8 x 178.7)	18977 x 4744 x 4540 (747.1x 186.8 x 178.7)	18977 x 4744 x 4540 (747.1x 186.8 x 178.7)	18977 x 4744 x 4540 (747.1x 186.8 x 178.7)
Weight	kg (lb) 51000 (112436)	52000 (114640)	51000 (112436)	53000 (116845)



# HAILSTONE TRACK SCREEN

## BAHNTRACK-BT Series

QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE

**CONVEYOR**  
650 belt width conveyor  
Chevron belt  
Conveyor driven by motorized pulley

**CONVEYOR**  
650 belt width conveyor  
Chevron belt  
Conveyor driven by motorized pulley  
Hydraulically adjustable

**HIGH MAST LIGHT**  
Lighting over a large area  
High performance

**CONVEYOR**  
1200 belt width feed conveyor  
Conveyor driven by motorized pulley  
Hydraulically adjustable

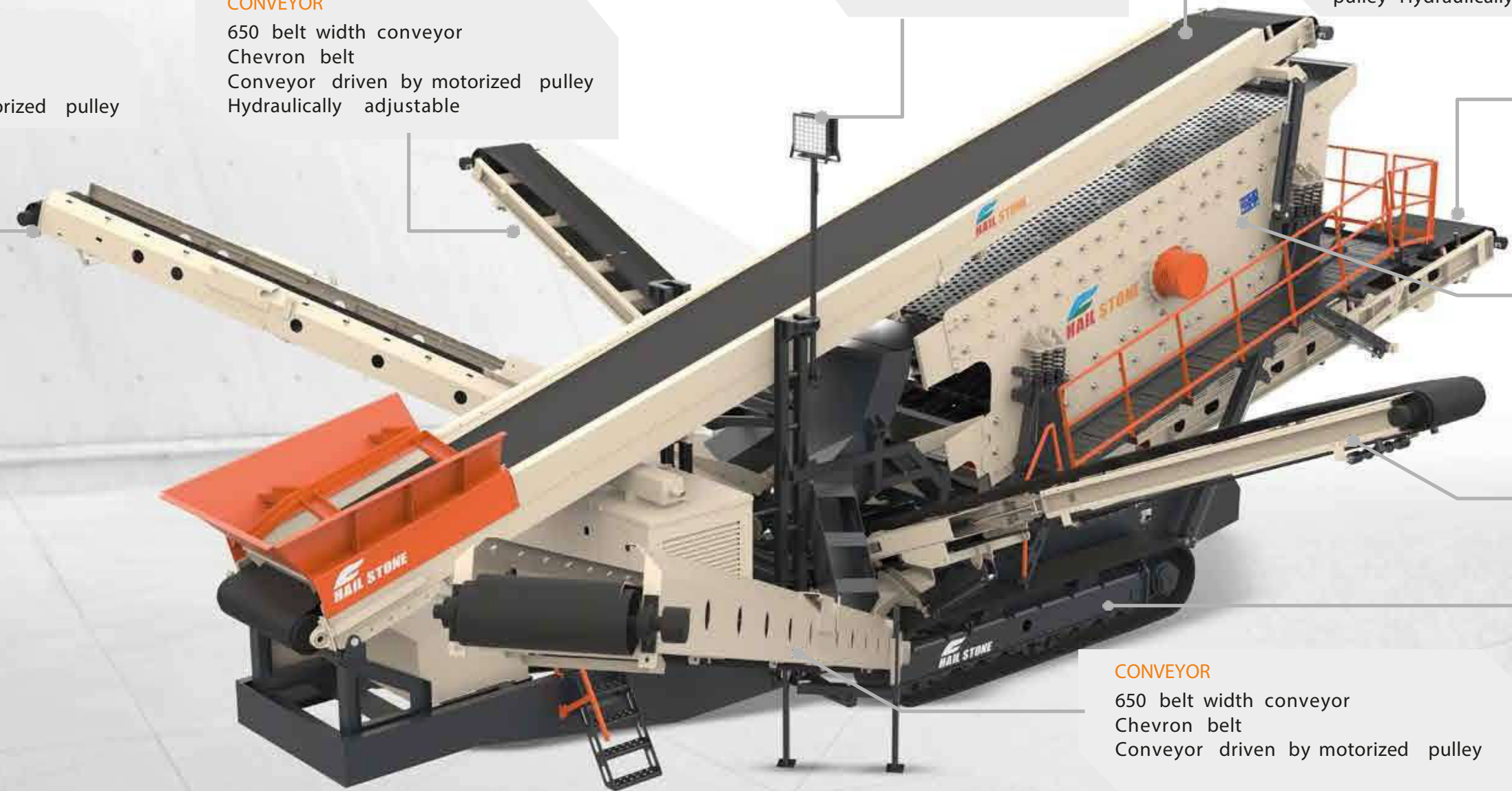
**CONVEYOR**  
1200 belt width feed conveyor  
Conveyor driven by motorized pulley  
Hydraulically adjustable

**VIBRATING SCREEN**  
Efficient separation & maximum screening output  
Hydraulically foldable for transport  
Extensive platforms for safe maintenance

**CONVEYOR**  
650 belt width conveyor  
Chevron belt  
Conveyor driven by motorized pulley  
Hydraulically adjustable

**CONVEYOR**  
650 belt width conveyor  
Chevron belt  
Conveyor driven by motorized pulley

**HEAVY DUTY TRACK**  
Optimized weight & more lifetime  
Mobility on uneven terrain



# HAILSTONE TRACK SCREEN

## BAHNTRACK-BT Series

QUICK INSTALLATION | FAST MOBILITY | HYBRID MACHINE

Hailstone track mounted screen unit is used as a secondary or tertiary screen station in a multistage crushing process or as a stand-alone unit.

Hailstone track mounted screening station is equipped with vibrating screen specially designed for screening in mobile application.

The track mounted screens are equipped with dual power source; the plant's electrically driven power systems provide significant cost advantages and environmental efficiencies.

Hailstone mobile screens is mounted on tracks, so it can be easily moved inside a quarry or construction site and transported between sites on a low bed truck. The compact dimensions and agility on tracks reduce operational costs.

### Salient Features

- Compact Design
- Versatile Design & Suitable for tough Applications
- Safe & Easy Maintenance
- Low Power Consumption
- Dual Power Mode
- Easy Maneuverable Track Drive System
- Optional Wireless Track Drive System
- Hybrid & Environmental Friendly

### Technical Spec

Model	BT311	BT311G	BT411
<b>SCREEN</b>			
Model	vs1860-3D	vs1860-3D	vs1860-4D
DECK SIZE mm (in)	6000 X 1800	6000 X 1800	6000 X 1800
No. of Decks	3	3	4

Model	BT311	BT311G	BT411
<b>Hopper</b>			
Hopper Capacity m <sup>3</sup>	2.1M <sup>3</sup>	6.1M <sup>3</sup>	2.1M <sup>3</sup>
Feeding Height mm (in)	3100	3100	3100
Grid	NO	YES	NO
<b>Feeding Conveyor</b>			
Belt Width mm (in)	1200	1200	1200
Feeding Height mm (in)	3100	3100	3100
<b>Oversize Conveyor</b>			
Belt Width mm (in)	650mm	650mm	650mm
Discharge Height mm (in)	4650mm	4650mm	4650mm
Stock Pile Capacity m <sup>3</sup>	130M <sup>3</sup>	130M <sup>3</sup>	130M <sup>3</sup>
<b>Product Conveyor -1</b>			
Belt Width mm (in)	650mm	650mm	650mm
Discharge Height mm (in)	4650mm	4650mm	4650mm
Stock Pile Capacity m <sup>3</sup>	130M <sup>3</sup>	130M <sup>3</sup>	130M <sup>3</sup>
<b>Product Conveyor -2</b>			
Belt Width mm (in)	650mm	650mm	650mm
Discharge Height mm (in)	4650mm	4650mm	4650mm
Stock Pile Capacity m <sup>3</sup>	130M <sup>3</sup>	130M <sup>3</sup>	130M <sup>3</sup>
<b>Product Conveyor -3</b>			
Belt Width mm (in)	--	--	650mm
Discharge Height mm (in)	--	--	4650mm
Stock Pile Capacity m <sup>3</sup>	--	--	130M <sup>3</sup>
<b>Undersize Bottom Conveyor</b>			
Belt Width mm (in)	1200mm	1200mm	1200mm
Discharge Height mm (in)	3000mm	3000mm	3000mm
Stock Pile Capacity m <sup>3</sup>	47M <sup>3</sup>	47M <sup>3</sup>	47M <sup>3</sup>
<b>Under Carriage</b>			
Shoe Width mm (in)	500	500	500
Gradability	30 degree	30 degree	30 degree
<b>Power Unit</b>			
Engine	Volvo eicher EE694 engine with Lerroy sommer alternator	Volvo eicher EE694 engine with Lerroy sommer alternator	Volvo eicher EE694 engine with Lerroy sommer alternator
Diesel Tank Capacity litre	600 LITER	600 LITER	600 LITER
<b>Dimensions</b>			
Transport (l x w x h) mm (in)	16000 x 3400 x 4000	18600 x 3400 x 4000	16000 x 3400 x 4000
Working (l x w x h) mm (in)	18559 x 19000 x 5656	20200 x 20500 x 5656	18559 x 19000 x 5656
Weight kg (lb)	50000 (110231)	52000 (114640)	52000 (114640)



# TRACK MOUNTED HSI

## BAHNTRACK-BT Series

QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE



### HIGH MAST LIGHT

Lighting over a large area  
High performance

### HORIZONTAL SHAFT IMPACTOR

Large feed opening  
Strong bolting for better strength  
Lesser maintenance & high performance

### GRIZZLY FEEDER

Efficient material flow with high stroke vibrating unit  
Long life & easy maintenance  
Wear resistant Grizzly liners

### FEED HOPPER

Hydraulically foldable  
Wear resistant  
Extension for more volume capacity

### CONVEYOR

1000 belt width discharge conveyor  
Conveyor driven by motorized pulley  
Hydraulically adjustable

### CONVEYOR

650 belt width dust conveyor  
Conveyor driven by motorized pulley  
Hydraulically adjustable

### HEAVY DUTY TRACK

Optimized weight & more lifetime  
Mobility on uneven terrain

### Extensive platforms for maintenance

Safe & robust stairs and handrails  
Provided on both sides

# TRACK MOUNTED HSI

## BAHNTRACK-BT Series

Hailstone trackmounted impactor BT1213 is fully equipped mobile impactor plant with high capacity . The crushing plants have been built around powerful Caterpillar C9.3 diesel engine and capacity is provided by the HSSI1213 impact crusher.

Bahntrack BT1213S can be transported as a single unit on a low bed trailer. This versatile crusher is suitable to work in different jobsites from rock crushing to construction and demolition waste recycling. The small footprint makes it easy to use in tight places and quick to transport with standard trailer between jobsites.

### Salient Features

- High capacity & excellent end product cubicity.
- Accurate classification of different end products are to be achieved from on-board screen
- Higher capacity and excellent product quality, and in providing a wider range of application suitability.
- Efficient and reliable EC & HF Series cone crushers.
- Built - In Safety Features.

### Technical Spec

Model		BT1213
CRUSHER		
Model		HSSI1213
Opening Size	m m (in)	1320 X 990 (52 X 39)
SYSTEM		
Hopper Capacity	m <sup>3</sup>	8
Grizzly Feeder		GFEM4211
Feeder Size	m m (in)	1100 x 4200 (43.3 x 165.3)
Main Conveyor		
Belt Width	m m (in)	1000 (39.4)
Discharge Height	m m (in)	3900 (153.5)
Stock Pile Capacity	m <sup>3</sup>	87
Bypass Conveyor		
Belt Width	m m (in)	650 (25.6)
Discharge Height	m m (in)	2200 (86.6)
Stock Pile Capacity	m <sup>3</sup>	15
Under Carriage		
Shoe Width	m m (in)	500 (20)
Gradability		25°
Hydraulic Tank Capacity	litre	200
Power Unit		
Engine		CAT C9.3 B with LS Alternator
Diesel Tank Capacity	litre	600
DIMENSIONS		
TRANSPORT (L x W x H)	m m (in)	15800 x 3000 x 3630 (622 x 1181x 142.9)
WEIGHT	kg (lbs)	48000 (101000)

Model	BT1110	BT908	
Crusher			
Model		HSSI1110	HSSI908
Opening Size	mm (in)	1100 X 800 (45 X 32)	860 X 650 (34 X 25.6)
Feeding system			
Hopper Capacity	m <sup>3</sup>	3.8	2.8
Feeder		Integrated hopper feeder	Integrated hopper feeder
Conveyor			
Main conveyor belt width	mm (in)	1200 (48)	900 (36)
Product conveyor belt width	mm (in)	1200 (48)	900 (36)
Recirculation conveyor belt width	mm (in)	500 (20)	400 (16)
Side conveyor belt width	mm (in)	600 (24)	Optional
Screen			
Hanging screen	mm (in)	3660 x 1530 (144 x 60.2)	2000 x 1100 (78.7 x 43.3)
Screen angle	degrees	25	25
Power unit			
Engine		CAT C7.1 with LS Alternator	CAT C7.1 with LS Alternator
Dimensions			
TRANSPORT (L x W x H)	mm (in)	15800 x 3000 x 3300 (622 x 118 x 130)	12800 x 3000 x 2700 (504 x 118 x 107)
WEIGHT	kg (lbs)	42000 (92594)	28000 (61729)



# WHEEL MOUNT PLANT

## SMART-Crusher Series

### VIBRATING SCREEN

Efficient separation & maximum screening output  
Cost effective & easy to maintain  
Easy replacement & better life span

### CONE CRUSHER

Highly suitable for hard rock crushing  
High performance & easy to maintain  
Excellent end product quality

### HIGH MAST LIGHT

Lighting over a large area  
High performance

### FEED HOPPER

Manually foldable & Wear resistant  
Wedge locking mechanism  
Extension for more volume capacity

### GRIZZLY FEEDER

Efficient material flow with high stroke vibrating unit  
Long life & easy maintenance  
Wear resistant Grizzly liners

### CHASSIS

Stiff & Robust  
High stability & lite weight

### JAW CRUSHER

Strong bolting for better strength  
Swinging motion for cavity adjustment  
Lesser maintenance & high mechanical efficiency

Extensive platforms for maintenance  
Safe & robust stairs and handrails  
Provided on both sides

QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE



# WHEEL MOUNT PLANT

## SMART-Crusher Series

Hailstone wheel mounted 2 stage plant is used as a primary and second stage crusher in a multistage crushing process. It is ideal for medium - sized aggregates production.

Hailstone wheel mounted crusher plant is equipped with Hailstone jaw crusher JC100 jaw crushing unit and HF220 cone crusher unit especially designed for crushing hard rock types such as granite, basalt and gneiss.

Hailstone wheel mounted crusher plant is mounted on wheeled chassis, so it can be easily transported between sites with a prime mover. The compact dimensions and agility reduce operational costs.

### Salient Features

- Compact Wheel Mounted Plant
- Quick Installation & Commissioning
- Ergonomic Design
- Faster Return on Investment
- Safe & Easy Maintenance
- Built - In Safety Features

### Technical Spec

Model	SMART JHF150	SMART J-HF230
<b>Feeder</b>		
Model	GFEM 3209	GFEM 3209
Grizzly Length	2 x 750 m m	2 x 750 m m
Grizzly Gap	35-90 mm	35-90 mm
Power	7.6 kW	7.6 kW
Hopper Capacity	7 M <sup>3</sup>	7 M <sup>3</sup>
<b>Jaw crusher</b>		
Model	JC 100	JC130
Openin g size	914 m m X 660 m m (36" X 26")	1067 m m X 762 m m (42" X 30 ")
C.S.S Range	60-175 mm	70-200 mM
Capacity	100-250 TPH	105-390 tph
Power	75 kW (100 hp)	110kW(150 hp)
<b>Cone crusher</b>		
Model	HF150	HF220
Feed Openin g Size	150 mm	172 mm
C.S.S Range	20 - 30 mm	20 - 40 mm
Capacity	58-160 TPH	70-260 TPH
Power	110kW (150 hp)	160 kW (220 hp)

Model	SMART JHF150	SMART JHF200
<b>Screen</b>		
Model	VS1850-4D	VS1850-4D
Width	1850 mm	1850 mm
Length	5000 mm	5000 mm
No of Deck	4	4
Power	15 kW (20 hp)	15 kW (20 hp)
<b>Dimensions</b>		
Transport (L X W X H)	18500 X 3000 X 4800 m m (728.3 x 118.1x 188.9 in)	18500 X 3000 X 4800 m m (728.3 x 118.1x 188.9 in)
Working (L X W X H)	19700 X 5100 X 6870 m m (775.6 x 200.8 x 270.5 in)	19700 X 5100 X 6870 m m (775.6 x 200.8 x 270.5 in)
Weight	53000 kg (116845 lbs)	56000 kg (123459 lbs)



# WHEEL MOUNT PLANT

## SMART-Impact Series

QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE

**FEED HOPPER**  
Manually foldable  
Wear resistant  
Extension for more volume capacity  
Available sizes are 7, 15, 20 m<sup>3</sup>

**CONVEYOR**  
650 belt width conveyor  
Chevron belt  
Gear motor driven belt conveyor

**HIGH MAST LIGHT**  
Lighting over a large area  
High performance

**CONVEYOR**  
800 belt width screen feed  
conveyor Chevron belt  
Gear motor driven belt conveyor

**VIBRATING SCREEN VS1860 -4D**  
Efficient separation & maximum screening output  
Cost effective & easy to maintain  
Easy replacement & better life span

**CONVEYOR**  
800 belt width VSI feed conveyor  
Chevron belt  
Gear motor driven belt conveyor

**VERTICAL SHAFT IMPACTOR EP7X187**  
Autogenous crushing for cubical shaped end product  
Excellent end product quality  
Max. feed size 37 mm

**Extensive platforms for maintenance**  
Safe & robust stairs and handrails  
Provided on both sides

**CONVEYOR**  
800 belt width discharge conveyor  
Gear motor driven belt conveyor

**CHASSIS**  
Stiff & Robust  
High stability & lite weight



# WHEEL MOUNT PLANT

## SMART-Impact Series

Hailstone wheel mounted VSI plant is used as a tertiary stage crusher in a multistage crushing process. It is ideal for fine aggregates production.

Hailstone wheel mounted crusher plant is equipped with Hailstone VSI EP7X187 crushing unit especially designed for crushing hard rock types such as granite, basalt and gneiss.

Hailstone wheel mounted crusher plant is mounted on wheeled chassis, so it can be easily transported between sites with a prime mover. The compact dimensions and agility reduce operational costs.

### Salient Features

Compact wheel mounted Plant

Durable design

Safe and easy maintenance

Quick installation

Faster return on investment

Low Operation Cost

### Technical Spec

Model	SMART EP7X187	Model	SMART EP7X187
IMPACTOR		SCREEN FEED CONVEYOR	
Model	VSIEP7X187	Belt Width	800 mm
Power, kW (hp)	187 (250)	Length	14 m
Number of drives	1	Motor Power	2 x 5.5 kW
Dry weight, kg (lbs)	6930 (15278)	OVER CONVEYOR 1	
Max. Recommended feed size , mm	37	Belt Width	650 mm
Throughput capacity, mTPH	120 - 220	Length	2 m
VIBRATING SCREEN		Motor Power	5.5 kW
Model	VS1860-4D	OVER CONVEYOR 2	
Deck Size	6000 X 1850 mm	Belt Width	650 mm
No. of Decks	4	Length	9.5 m
FEEDER		Motor Power	9.2 kW
Model	PFVM12085	SCREEN BOTTOM CONVEYOR	
Capacity, mTPH	100 - 150	Belt Width	800 mm
Motor Power	1 X 2.2 kW	Length	10 m
HOPPER		Motor Power	5.5 kW
Capacity	7/15/20 M^3	DIMENSIONS	
Feeding Height	5700* mm	Transport (L X W X H)	20050 x 3600 X 4600 mm (7876 x 142 x 181 in)
VSI FEED CONVEYOR		Working (L X W X H)	23750 x 5600 X 5800 mm (935 x 220 x 228 in)
Belt Width	800 mm	Weight	36000 kg (79366 lbs)
Length	5 m		
Motor Power	5.5 kW		



# WHEEL MOUNTED JAW CRUSHER

## HW -Jaw Crusher Series

QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE



### HIGH MAST LIGHT

Lighting over a large area  
High performance

### CONVEYOR

1000 belt width main conveyor  
Gear motor driven belt conveyor

### Extensive platforms for maintenance

Safe & robust stairs and handrails  
provided on both sides

### FEED HOPPER

Wear resistant  
High volume capacity

### GRIZZLY FEEDER GFEM4211

Efficient material flow with high stroke vibrating unit  
Long life & easy maintenance  
Wear resistant grizzly liners

### JAW CRUSHER

Strong bolting for better strength  
Swinging motion for cavity adjustment  
Lesser maintenance & high mechanical efficiency

### CHASSIS

Stiff & Robust  
High stability & lite weight

# WHEEL MOUNTED JAW CRUSHER

## HW-Jaw Crusher Series

### EASY INSTALLATION | MOBILE

Portable plants are the most convenient way to build even complex crushing and mineral processing sites. They are very easy to move from site to site.

Hailstone wheel mounted primary crusher is equipped with jaw crusher and the basic arrangement uses a feeder with grizzly, provided with a large SYSTEM destined to the wheel loader feeding.

Robust construction for the toughest of hard rock crushing sites.

### Salient Features

**Stiff & Robust chassis** - Strong frame supports all equipment and reduces vibrations. Its high stability and low weight make transportation easy.

**Scalp Grizzly** - Equipped with grizzly sections, they also remove the fines to bypass the primary crusher.

### Technical Spec

Model	HW130	HW145
Length, mm	12700	13000
Width, mm	2910	2910
Height, mm	4409	4409
Total power, kW	135.6	135.6
Weight, kg (lbs)	37365 (82376)	41000 (90400)
Crusher	JC130	JC145
Feed opening,mm (in)	1067 X 762 (42 X 30)	1143 x 813 (45" x 32")
Capacity, mTPH	127-490	180-545
Feeder	GFEM4211	GFEM4211
Length, mm	4200	4200
Width, mm	1100	1100
Power, kW	2 x 5.5	2 x 5.5



# WHEEL MOUNTED CONE CRUSHER

## HW-Cone Crusher Series

### CONE CRUSHER

Highly suitable for hard rock crushing  
High performance & easy to maintain  
Excellent end product quality

### HIGH MAST LIGHT

Lighting over a large area  
High performance

### VIBRATING SCREEN

Efficient separation & maximum screening output  
Cost effective & easy to maintain  
Easy replacement & better life span

### CHASSIS

Stiff & Robust  
High stability & lite weight

### Extensive platforms for maintenance

Safe & robust stairs and handrails  
Provided on both sides

QUICK  
INSTALLATION  
FAST  
MOBILITY  
HYBRID  
MACHINE

# WHEEL MOUNTED CONE CRUSHER

## HW-Cone Crusher Series

Hailstone wheel mounted cone crusher is a perfect choice when there is a requirement of efficient secondary, tertiary and fine crushing with high productivity, good reduction ratio and excellent cubicity requirements.

According to your crushing requirement, two- or three-stage portable processes, you can find the right cone crushers from the EC and HF series.

Hailstone wheel mounted cone crusher is available with both EC or HF Series cone crushers.

### Salient Features

High capacity & excellent end product cubicity.

Accurate classification of different end products are to be achieved from on-board screen

Higher capacity and excellent product quality, and in providing a wider range of application suitability.

Efficient and reliable EC & HF Series cone crushers.

Built - In Safety Features.

### Technical Spec

Model	HW220	HW270	HW200	HW300
Length, mm	14020	14084	14020	13998
Width, mm	2747	2747	2710	2710
Height, m m	4510	4510	4473	4473
Weight, kg (lbs)	34020 (75001)	40152 (88520)	37100 (81791)	43524 (95954)
Total Power, kW	175	247	175	247
Crusher	HF220	HF270	EC2000	EC3000
Closed side setting, m m	20 - 40	8 - 40	10 - 38	8 - 45
Capacity, mTPH	100 - 260	70 - 280	127 - 490	160 - 560
Screen	VS1845-4D	VS1855-4D	VS1845-4D	VS1855-4D
Length, mm	4500	5500	4500	5500
Width, mm	1800	1800	1800	1800
Power, kW	15	22	15	22



# WHEEL MOUNTED VSI

## HW -VSI Series

### VERTICAL SHAFT IMPACTOR

Autogenous crushing for cubical shaped end product  
Excellent end product quality  
Max. feed size 57 mm

### HIGH MAST LIGHT

Lighting over a large area  
High performance

### VIBRATING SCREEN

Efficient separation & maximum screening output  
Cost effective & easy to maintain  
Easy replacement & better life span

### CHASSIS

Stiff & Robust  
High stability & lite weight

### Extensive platforms for maintenance

Safe & robust stairs and handrails  
Provided on both sides



QUICK  
INSTALLATION

FAST  
MOBILITY

HYBRID  
MACHINE

# WHEEL MOUNTED VSI

## HW-VSI Series

Hailstone wheel mounted vertical shaft impactor is the most convenient solution for diverse crushing operations in construction, industrial minerals, metallic minerals and waste and recycling applications.

Equipped with hailstone proven vertical shaft impactor is used in the third or fourth crushing stage in order to secure high cubicity of the end products meeting all IS, BS, NHAI & MoRTH product standards.

### Salient Features

The Rock on rock collision, along with impeccable design of crushing chamber gives best quality sand off the belt.

Accurate classification of different end products achieve from onboard screen.

Minimized wear part costs thanks to rock-on-rock technology.

Overall value proposition.

### Technical Spec

Model	HW7X	HW8X
Length, mm	13940	14004
Width, mm	2540	2554
Height, m m	4650	4650
Weight, kg (lbs)	27500 (60627)	28997 (63927)
Motor Power, kW	90 - 202	247
Impactor	EP7X	EP8X
Recommended feed size,mm	32	37
Capacity, mTPH	60 - 220	150 - 350
Screen	VS1845-4D	VS1855-4D
Length, mm	4500	5500
Width, mm	1800	1800
Power, kW	15	22



# JAW CRUSHER

## JC Series

Hailstone jaw crusher design and its material specifications offer a perfect crushing solution to the customer. High quality materials with superior finishing are used in Hailstone jaw crushers for better performance.

Our experience in crushing field and knowledge in metallurgy provides better assistance in bringing a foremost manufacturing grade for machine.

Hailstone version of Jaw crusher took its form when it became a necessary to crush both tough feed materials likes rocks in quarry field and hard material lumps in mineral industry effectively and economically.



## Salient Features

**Non-welded design** - Hailstone jaw crushers have been designed for a non-welded frame so as to avoid additional heat treatment required after welding. The parts are easily assembled with highly graded bolting or pin locks for better strength.

**Better anchoring** - Hailstone jaw crusher foundation restricts movement in all directions thus reducing damage to the foundation.

**High availability** - Machine components are designed so as to run for maximum time a day without engineering fatigue.

**MBD analyzed flywheel** - The flywheels with a counter weight are analyzed for smooth running and safety.

**Easy operation** - Wedge adjustment system consumes less time for adjustment thus increasing operational time of machine.

**Faster ROI** - Lesser maintenance & high mechanical efficiency results in faster ROI.

## Technical Spec

Model	JC100	JC130	JC145	JC180	JC220
Feed opening, mm x mm (in x in)	914 x 660 (36 x 26)	1067 X 762 (42 X 30)	1143 x 813 (45 x 32)	1194x 889 (47 x 35)	1320 x 1016 (52 x 40)
CSS range, mm	60-175	70-200	70-200	70-175	100-250
Total weight, kg (lbs)	12000 (26455)	19000 (41888)	22000 (48502)	27500 (60600)	44000 (97000)
Drive power, kW (hp)	75 (100)	110 (150)	132 (180)	160 (220)	160 (220)
Speed, rpm	330	260	260	230	220
Closed side setting mm (in)	Capacity (mTPH)				
	JC100	JC130	JC145	JC180	JC220
60 (2 )	105 - 135	-	-	-	-
70 (2 ¾)	125 - 155	127 - 180	150 - 210	180 - 245	-
80 (3 )	140 - 180	160 - 220	170 - 235	200 - 275	-
90 (3 ½)	160 - 200	195 - 230	180 - 270	215 - 310	-
100 (4)	175 - 225	208 - 265	205 - 290	240 - 330	245 - 375
125 (5)	220 - 280	260 - 330	250 - 350	290 - 400	295 - 450
150 (6)	265 - 335	310 - 390	310 - 420	345 - 480	340 - 520
175 (7)	310 - 390	360 - 455	340 - 480	390 - 545	390 - 550
200 (8)	-	400 - 520	390 - 550	-	430 - 645
225 (9)	-	-	-	-	480 - 700
250 (10)	-	-	-	-	530 - 790

# CONE CRUSHER

## HF Series

The HF cone crusher heavy-duty design is based on two-point supported main shaft that allows high performance steep cavity designs. This strong design allows high crushing performance due to high power and crushing force levels utilized.

This stone regurgitating giant with small foot print is carefully engineered and created with unmatched performance assuring smooth running in any quarry or mining applications, takes less land to stand. Hydraulically adjustable CSS, automation, and freedom to select different crushing chamber with high performance features make the machine adaptable and user friendly.

Relatively lower CAPEX & OPEX makes HF series cone crusher the most customer friendly with quickest ROI



## Salient Features

**Excellent Versatility** - Several standard crushing chambers available for each model along with proper selection of eccentric through that can be matched to changes in production makes the machine versatile.

**Easy To Handle And Maintain** - All service and inspection is carried out by positioning the machine from above, which makes the work easier and the maintenance costs lower.

**Safe To Operate** - The HF series cone crusher is safe and easy to operate and maintain. The minimum numbers of maintenance points are accessed safely and with ease. The HF series is supplied with all tools required for safe maintenance work.

**Lubrication** - Separate lubrication (grease) is provided for the spider bearing and pinion shaft. The oil tank unit automatically maintains oil flow to various bearings. This system permits full lubrication even before the crusher is started since the pump is independent of the crusher.

## Technical Spec

Model	HF150	HF220	HF270	HF400
Drive power, kW (hp)	75 (100) - 110 (150)	132 - 160 kW (180 - 220 hp)	132 - 220 kW (175 - 300 hp)	250 - 315 kW (315 - 425 hp)
Total weight, kg (lbs)	7850 (17306)	11500 (25353)	13800 (30423)	26400 (58202)
Stroke options, mm (in)	25,30 (1, 1 7/9)	18,22,28,36 (1 1/9, 1 1/2, 1 1/4, 1 1/2)	18,25,28,32,36,40 (1 1/9, 1 1/2, 1 1/4, 1 1/2, 1 1/4)	18,22,25,28,32,36,40 (1 1/9, 1 1/2, 1 1/4, 1 1/2, 1 1/4)
Cavity		Feed Opening		
Fine, mm (in)	53 (2)	75 (2 3/4)	89 (3 1/2)	85 (3 1/2)
Medium, mm (in)	141 (5 5/9)	135 (5 1/8)	118 (4 7/8)	135 (5 1/8)
Coarse, mm(in)	160 (6 2/9)	172 (6 3/4)	182 (7 1/8)	184 (7 1/4)

Closed side setting mm (in)	Capacity (mTPH)			
	HF150	HF220	HF270	HF400
8 ( 7/9)	-	-	70-90	105-145
10 ( )	58 - 95	70 - 90	80-130	110-190
15 (1 1/2)	65 - 123	77 - 99	105-175	130-230
20 (2 7/9)	84 - 135	100 - 110	120-230	155-300
25 (1)	105 - 147*	126 - 165	150-265	180-350
30 (1 7/9)	132 - 160*	144 - 205	165-280	210-390
35 (1 )	-	162 - 250	-	-
40 (1 2/9)	-	175 - 260	-	-





## Salient Features

**High Performance** - Carefully designed crushing chamber, Crushing Speed and Throw Results in higher productivity. Large capacity crushing cavity allows more inter-particular crushing for better shaped end products.

**High Availability** - Cone crusher downtime mainly occurs due to trapping of tramp iron or any other un-crushable material inside the chamber. EC series cone crushers solves this issue by incorporated hydraulic tramp release system.

**Easy to operate and maintain** - The EC series cone crushers are well designed for easy operation, inspection and maintenance. The crusher settings can be easily done by hydraulic motor setting.

**Versatile** - Proper adjustments of crushing chamber and liners make the crusher suitable for more different applications. The crusher throw is varied for different applications by varying the speed of the crusher.

## Technical Spec

Model	EC2000	EC3000	EC4000	EC3500	EC4500	EC5500
Maximum feed opening,mm(in)	185 (7 <sup>1</sup> / <sub>7</sub> )	200 (7 Z/8)	240 (9 <sup>1</sup> / <sub>2</sub> )	241 (9 ½)	304 (12)	351 (13 ¾)
Total weight, kg (lbs)	12550 (27668)	19500 (42990)	26400 (58202)	18500 (40785)	26700 (58863)	37800 (83335)
Drive power, kW (hp)	160 (220)	225 (300)	315 (425)	220 (300)	315 (400)	355 (500)

Closed side setting mm (in)	Capacity (mTPH)					
	EC2000	EC3000	EC4000	EC3500	EC4500	EC5500
8 (5/16)	-	90-130	135-175	-	-	-
10 ( )	90-130	105-150	155-210	115-140	140-175	175-220
13 (½)	120-160	130-185	195-265	150-185	185-230	230-290
16 ( )	135-185	155-230	235-315	180-220	225-280	280-350
19 (¾)	150-195	180-250	260-345	200-240	255-320	320-400
22 ( )	160-210	190-260	285-375	220-260	275-345	345-430
25 (1)	170-230	210-290	300-400	230-280	295-370	365-455
32 (1 ¼)	185-240	220-310	310-440	250-320	325-430	405-535
38 (1 ½)	200-260	240-350	360-500	300-380	360-490	445-605
45 (1 ¾)	-	280-400	400-555	350-440	410-560	510-700
51 (2)	-	-	-	-	465-630	580-790

# VERTICAL SHAFT IMPACTOR

## EP Series

Hailstone Vertical Shaft Impactor improves the soundness and shape of stone, reducing product moisture and easing the screening task while producing superior products at a minimum cost

Hailstone VSI which works on the principle of Rock on Rock collision has already proven, that it is the best sand making equipment among existing machines around the globe meeting all IS, BS, NHAI & MoRTH product standards.



## Salient Features

**Low Cost** - Comparing the profit the machine can give, the owner never feels that the cost is high for the machine. Our Engineers have carefully studied the techno commercial to make the machine an easy buy option compared to other sand makers.

**Excellent Crushability** - Rock on rock collision improves crushing ability of VSI. The rotor in VSI accelerates the incoming material to increase the rock on rock collision in the crushing chamber.

**High Quality sand** - The Rock on rock collision, along with impeccable design of crushing chamber gives best quality sand off the belt.

**Benefits of cascade** - The cascade flow is actually the overflow from the feed which is directed in such a direction that it comes in contact with the out coming accelerated feed materials from rotor results in rock on rock collision.

## Benefits

- Produces a product of superior cubical shape
- Ability to control product grading
- Low wear costs due to unique rock-on-rock crushing
- Fine tuned product with cascading
- Inspection door for rotor access
- Quick & easy maintenance and maximized uptime

## Technical Spec

Model	EP6X55	EP6X75	EP6X110	EP7X132	EP7X160	EP7X187	EP8X225	EP8XX320	EP8XX374	EP10XX450	EP10XX630
Power, kW (hp)	55 (75)	75 (100)	110(150)	132 (180)	160 (220)	187 (250)	225 (300)	320 (440)	374 (500)	450 (600)	630 (850)
Number of drives	1	1	1	1	1	1	1	2	2	2	2
Dry weight, kg (lbs)	4500 (9921)	4800 (10582)	5200 (11464)	6730 (14837)	6880 (15167)	6930 (15278)	9325 (20558)	10840 (23898)	10950 (24141)	12655 (27899)	13275 (29266)
Max. Recommended feed size*, m m	32	32	37	37	37	37	57	57	57	64	64
Throughput capacity, mTPH	40 - 80	45 - 100	60 - 160	75 - 175	100 - 210	120 - 220	150 - 350	210 - 420	240 - 520	310 - 560	400 - 750



# HORIZONTAL SHAFT IMPACTOR

## HS Series

Hailstone HSI crushers are designed to minimize maintenance and to deliver high performance in primary, secondary & tertiary crushing applications.

Maximum production and minimum downtime are the salient features of Hailstone HSI. Careful design of blow-bar, rotor and easy interchangeability of liners contributes for maximum production and less down time. Hydraulic apron assisted mechanical adjustments is easy to perform. Years of experience and knowledge in material science makes Hailstone machine parts best among all. Liners used are adaptable for sticky materials which makes the HSI different from other crushers by making it suitable for all rocks.



## Salient Features

**Adaptable** - This special machine is designed so as to use as primary and secondary crusher. The unique design of Hailstone HSI-born out of careful engineering is adaptable to different mode according to customer's changing futuristic crushing requirements.

**Excellent reduction ratio** - Hailstone HSI gives amazing reduction ratio compared to other Horizontal crushers. Two heavy duty aprons are being used in our HSI. As a result this unique design requires less maintenance since lesser number of parts used are being worn-out.

**Compact** - The possibility of horizontal or vertical removal of blow bar from rotor makes it suitable in less space environments.

**High Capacity** - An excellently designed crushing chamber, rigid and heavy rotor and blow bars have increased the production capacity of our HSI.

## Technical Spec

Model	HSSI1213	HSTI 1110
Power, kW (hp)	200 - 250 (250 - 350)	160 - 250 (220 - 340)
Capacity range, mTPH	180-280	180 - 250
Dry weight, kg (lbs)	14000 (30865)	14750 (32518)
Maximum feed size, mm (in)	400 (15.7)	150
Feed opening (LxW), mm (in)	1320 x 879 (52 X 34.6)	1120X 200 (44 X 7.8)
No. of blow bar	4	4

# FINE SCREEN

## HFS Series

Hailstone fine screen provides higher production rates with more efficient sizing by an aggressive screen vibration applied directly to the screen media.

Fine screen has some additional features which makes it different from conventional screens. Hailstone fine screens are two-deck screens for better screening options. The fine screens are designed for better screening action in a less weight structure that reduce installation cost.



## Salient Features

**Dust protection** - The fine screens are dust protected by proper covering at top. The top cover entraps excessive dust incoming and also provides better working environment.

**Induced vibrations** - Directly induced vibrations on screen media increases stratification and separation of materials, thereby increasing efficiency. The direct induced vibrations make better screening than any other conventional screens.

**Ease of maintenance** - The fine screen is an equipment which can be easily maintained. The wear parts are very less in fine screen, which results in longer mean time between maintenance.

## Technical Spec

Model	HFS-1862-2D
Length, mm	6000
Width, mm	2000
Number of decks	2
Inclination angle range, degree	36-45
Maximum feed size, m m	< 10
Speed, rpm	3600
Drive power, kW	10 x 0.8
Approximate weight, kg (lbs)	4398 (9696)



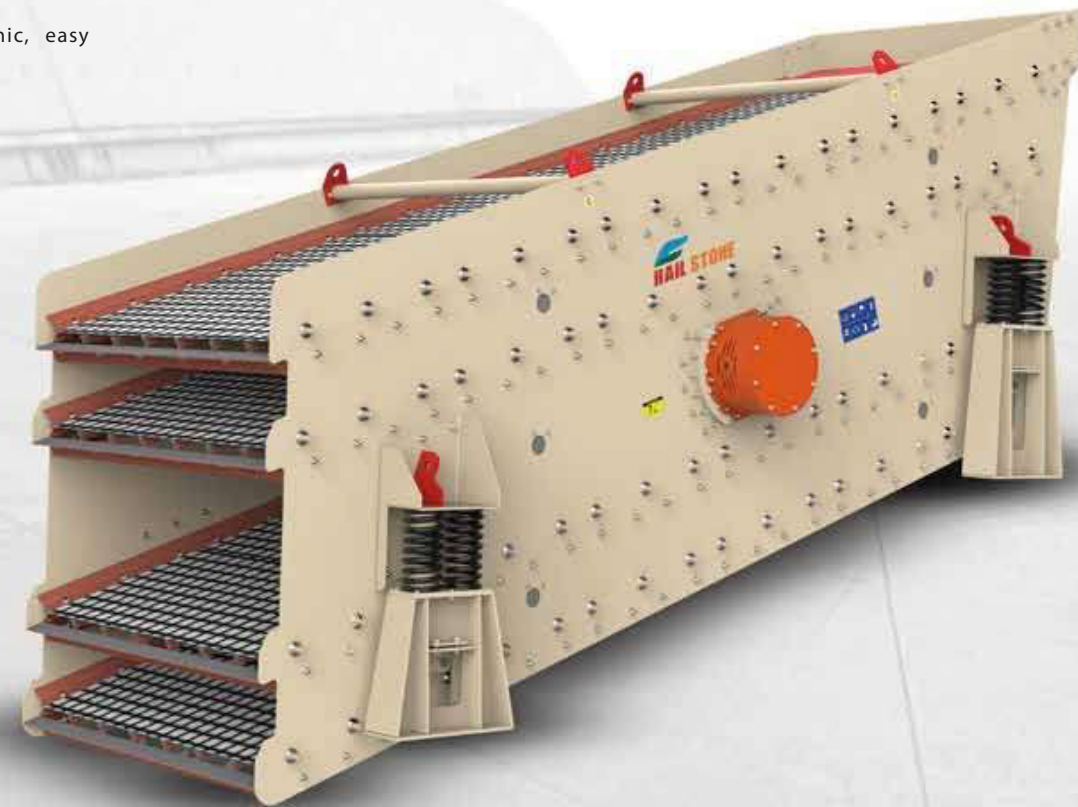
# VIBRATING SCREEN

## VS Series

Hailstone vibrating screens are circular-motion inclined screens in two, three and four deck designs. Standard inclination degrees are selected depending on the size of the machine. The decks can be equipped with any kind of modern screening media of polyurethane and rubber, wire mesh or steel plate depending upon the material.

We have a proud heritage of supplying best screens existing, and our legacy spans decades as far as screens are concerned. Well positioned rotary shaft at its center of gravity gives the screen a motion that follows a circular profile at every point on the screen as it runs; result in excellent efficiency in all stages of crushing operations.

Hailstone vibrating screens have shown themselves to be extremely reliable, economic, easy to use and suitable for most of the screening applications.



## Salient Features

**Compact and modular design** - Hailstone vibrating screens are made as compact as possible for maximum screening output through continuous analysis and upgradation. Modular screening media helps for easy replacement and better life span.

**Cost effective** - Weight optimization carried out on the machine using modern methods like FEA made the machine optimum weight to process best screening and thus minimal power consumption.

**Easy to maintain** - Adoption of modular screening media, incorporation of huck-bolt system makes the machine easy to maintain. Its robust design and easy availability of wear and spare parts makes Hailstone screen most preferred one.

**Value proposition product**

## Technical Spec

MODEL	LENGTH MM	WIDTH MM	SCREENING AREA M <sup>2</sup>	APPROXIMATE WEIGHT KG (LBS)	NUMBER OF DECKS	DRIVE POWER KW (HP)	TOP SIZE OF FEED (MM)
VS400150 - 2D	4000	1500	6.0	4051 (8931)	2	15 (20)	75
VS400150 - 3D				4560 (10053)	3	15 (20)	
VS400150 - 4D				6294 (13876)	4	15 (20)	
VS1845 - 3D	4500	1850	8.3	5220 (11508)	3	15 (20)	75
VS1845 - 4D				6240(13757)	4	15 (20)	
VS1855 - 3D	5500	1850	10.17	6350 ( 14000)	3	15 (20)	75
VS1855 - 4D				7560(16667)	4	22 (30)	
VS600200 - 2D	6000	2000	12.0	5161 (11378)	2	15 (20)	
VS600200 - 3D				8015 (17670)	3	22 (30)	
VS600200 - 4D				9320 (20547)	4	22 (30)	
VS610260 - 3D	6100	2600	15.86	13000 (28660 )	3	30 (40)	75
VS610260 - 4D				16000 (35274)	4	30 (40)	

# BUCKET WHEEL CLASSIFIER

## BCD Series & DUO Series

Highly comprehensive range of dewatering options for fine materials covering numerous applications and sectors.

The washing equipment designed to operate with maximum versatility and can support different requirements such as maximum retention of fines or maximum disposal of fines meeting all IS, BS, NHAI & MoRTH product standards.



## Salient Features

**Supreme engineering** - Selecting planetary gear box motor, optimal vibro-motor and carefully selected body material, we made the best washing plant with careful analytical and computer aided numerical studies along with successful real time testing.

**Economical** - To reduce the cost production per ton we have reduced the power consumption. Power optimized vibro-motor, low power motor with planetary gear box help in reducing running cost.

**Compact** - Plant, supporting frame and structures are properly set so as to make the arrangement compact which saves the land usage.

**Easy maintenance and user friendly** - Simple but noble design of the BCD plant body and supporting structure makes the plant user friendly and easy to maintain.

## Technical Spec

MODEL	BCD1209	BCD1412	BCD1815	DUO80	DUO120	DUO160
Drive power, kW (hp)	5.5 (7.5)	7.5 (10)	15 (20)	5.5 (7.5)	7.5 (10)	7.5 (10)
Rotation speed, rpm	3.29	3.29	3.32	3.29	3.29	3.29
Unbalanced motor power, kW	2 x 1.5	2 x 1.5	2 x 3.8	2 x 1.5	2 x 2.2	2 x 1.5(DWS) 2 x 3.8(RS)
Number of products	1	1	1	2	2	2
Capacity, mTPH	45-60	60-80	90 - 120	60 - 80	100 - 120	120-160
Maximum feed size, mm	< 8	< 8	< 8	< 8	< 8	< 8
Approximate weight, kg (lbs)	7622 (16804)	8522 (18788)	12032 (26526)	5440 (11993)	8630 (19026)	13164 (29022)
Dewatering screen size (LxW), mm (in)	2100 x 900 (83 x 35)	2100 x 1200 (83 x 47)	2450 x 1500 (96 x 59)	2117x 1270 (83 x 50)	2480 x 1446 (98 x 57)	1840 x 1146(DWS) (73 x 33) 2800 x 1300(RS) (110x 51)

# ADDWASH

## ADDWASH Series

ADDWASH is an improvised fine-material washing solution, as an out-turn of long and engrossed research and development by our devoted engineers. Material after washing and dewatering is ready to market condition right off the belt. Its unrivaled performance, low running cost and minimum power consumption makes the machine a pet amid its owners.

Our unique vibro-motor and auxiliary system distributes material flow evenly over the entire screening area and make sure, that maximum energy transferred to the material with exceptional dewatering efficiency.



## Salient Features

**Modular** - Hydro cyclone-Pump technology incorporated to the machine provides an unparalleled grip on controlling silt cut points - allowing maximum recovery of material.

**Cyclone** - Gravity assisted cyclone discharge feed to the ponds or water treatment phase eliminates the need of additional pumps and sumps. Hydrocyclone drop box design ensures, complete utilization of available screening area for maximum product dewatering.

**Cost effective and lesser down time** - ADDWASH is well set to its best maintenance friendly version after a series of upgradation gathering feedbacks from operators and customers. Modular, non-bolted polyurethane screen media helps in easy maintenance and replacements reducing downtime.

## Technical Spec

MODEL		ADDWASH 85F	ADDWASH 125F	ADDWASH 205F	ADDWASH 305F
Total power, kW		22.6	26.1	46	77
Water required, m <sup>3</sup> /hr		150	180	250	350
Capacity, mTPH		50-70	70-105	110-180	250-300
De watering screen	Screening Size (LxW), m m (in)	2400 x 1200 (96 x 48)	2400 x 1800 (96 x 72)	4000x2100 (160x84)	4000x2100 (160x84)
	Motor Power, kW	7.6	7.6	16	16
Rinser screen	Screening Size (L x W), m m (in)	-	-	-	4800x2100 (192x84)
	Motor Power, kW	-	-	-	16
Slurry pump size	Suction, in	4	6	6	8
	Discharge, in	3	4	4	6



# CLARIFIER

## CF Series

The Hailstone Clarifier operates by the principles of gravity and particle interactions, with solid settling downwards and liquids rising to the top as they separate. Hailstone Clarifier focuses on maximising the settling of solids in the underflow, and minimising any escape of solids in the overflow stream to provide cleaner water for immediate reuse in the system.

Hailstone Clarifier is designed for seamless integration with our washing equipments. Clarifier uses the latest sand washing technology, that recycles up to 90% of processed water and makes it available for re-use in the system.



## Salient Features

**Easy to install and maintain** - The pre assembled cone and modular thickener design allows less foundation requirement and minimise the time spent on essential plant inspection and maintenance.

**Modular Flocculant system** - Evenly mixed flocculant solution is directly transferred to the Clarifier thickener via the deaeration chamber where it is mixed with the wastewater from the washing equipment. The automated flocculant dosing is combines with the waste water, this maximises settlement of solids.

**Robust rake system** - The waste sludge is discharged into a buffer tank where a motorized rake in constant rotation ensures the material does not settle and solidify.

**Best long-term performance** - The robust design of rake system maximizes the settlement of solids while simultaneously reducing running costs and maintaining the efficiency of your wet processing plant.

## Technical Spec

MODEL	CF120	CF200	CF300
Maximum feed rate (m <sup>3</sup> /hr)	200	400	900
Sludge flow rate, mTPH	10	20	45
Sludge pump power, kW (hp)	15 (20)	22 (30)	22 (30)
Rake power requirement, kW (hp)	3.3 (4.5)	3.3 (4.5)	3.7 (5)
Tank diameter, Mtr.	6	8	12
Flocculant station power, kW (hp)	3 (4)	3 (4)	3 (4)
Total power kW (hp)	22.05 (30)	29.05 (39)	30 (40)

# AIR CLASSIFIER

## AC Series

Dynamic classifiers, in which the rotary type is the dominating solution for the aggregate industry. The main advantage with the dynamic rotor type air classifiers is that it has no need for a separate fan and filter assembly.

This lowers the investment cost and reduces the machine assembly footprint and makes the system easier to transport in a mobile configuration.



## Salient Features

**Versatile** - Higher capacity and finer separation than screeners with no blinding.

**High Classification** - Fine particle size separation.

**Easy Maneuverability** - Variable speed for quick adjusting fineness control.

**High Availability** - Reduced maintenance due to durable, wear-resistant liners.

## Technical Spec

MODEL	AC50	AC100	AC200
Feed Height, m m	6000	7000	8500
Diameter, mm	2400	3000	4200
Motor power, kW (hp)	22 (30)	30 (40)	55 (75)
Feed size, mm	< 6	< 6	< 6
Capacity, mTPH	40 - 50	80 - 100	150 - 200

# FEEDER

## Pan Feeder | Grizzly Feeder

Hailstone feeders are designed for mobile, portable and stationary use as well as surface and underground operations for abrasive or soft rock, gravel, slag or other recycling and industrial materials. These feeders are compatible with wide range of crushing equipment.



## Pan Feeder

### Salient Features

- Wear Resistant Grizzly Liners
- Long Life Wear Parts
- Stress Relieved Motor Base
- Flexible & Reliable In Operation
- Easy Installation & Maintenance
- Less Down Time.

### Technical Spec

MODEL	PFVM12085	PFVM17580	PFVM2208	PFVM2210	PFVM2012
Effective length, m m	1200	1750	2200	2200	2000
Effective width, m m	850	800	800	1000	1250
Power, kW	1 x 2.2	2 x 1.5	2 x 2.29	2 x 3.8	2 x 3.8
Capacity, mTPH	100 - 150	150 - 200	200 - 250	250 - 300	300 - 550
Approximate weight, kg (lbs)	575 (1267)	1025 (2260)	1445 (2524)	1479 (3261)	1729 (3812)
Top size of feed, m m	100	200	200	200	300

## Grizzly Feeder

### Salient Features

- Wear Resistant Grizzly Liners
- Long Life Wear Parts
- Stress Relieved Motor Base
- Flexible & Reliable In Operation
- Easy Installation & Maintenance
- Less Down Time.

### Technical Spec

MODEL	GFEM3209	GFEM4211	GFEM4512	GFEM4513	GF6113
Effective length, m m	3200	4200	4500	4500	6100
Effective width, m m	900	1100	1200	1300	1300
Power, kW	2 x 3.8	2 X 5.5	2 x 6.1	2X 7.5	1 X 30
Capacity, mTPH	150-200	200 - 250	250 - 300	300-350	350-400
Approximate weight, kg (lbs)	2750 (6063)	4250 (9370 )	5572 (12285)	6278 (13840)	8000 (17635)
Top size of feed, m m	450	600	600	1100	1200