



# HAIL STONE

**MINING | CRUSHING | SCREENING | WASHING | RECYCLING SOLUTIONS**

# OUR STATE OF THE ART INFRASTRUCTURE



## ABOUT US

The finest choice for sustainable value addition of natural resources in the world, Hailstone innovations Pvt Ltd., is one of the leading Crushing & screening equipment manufacturer from India. Hailstone specializes in engineering, designing, fabricating, and manufacturing capital equipment, as well as completing 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 equipment which helps and motivates us to better serve the world. With an agile approach and far-reaching global presence, Over the years, we have shaped an effective organizational structure that grants the firm operational excellence 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. At Hailstone, our strategy is always to innovate efficiently to ensure our customers' success and prosperity.

**hailstonein.com**

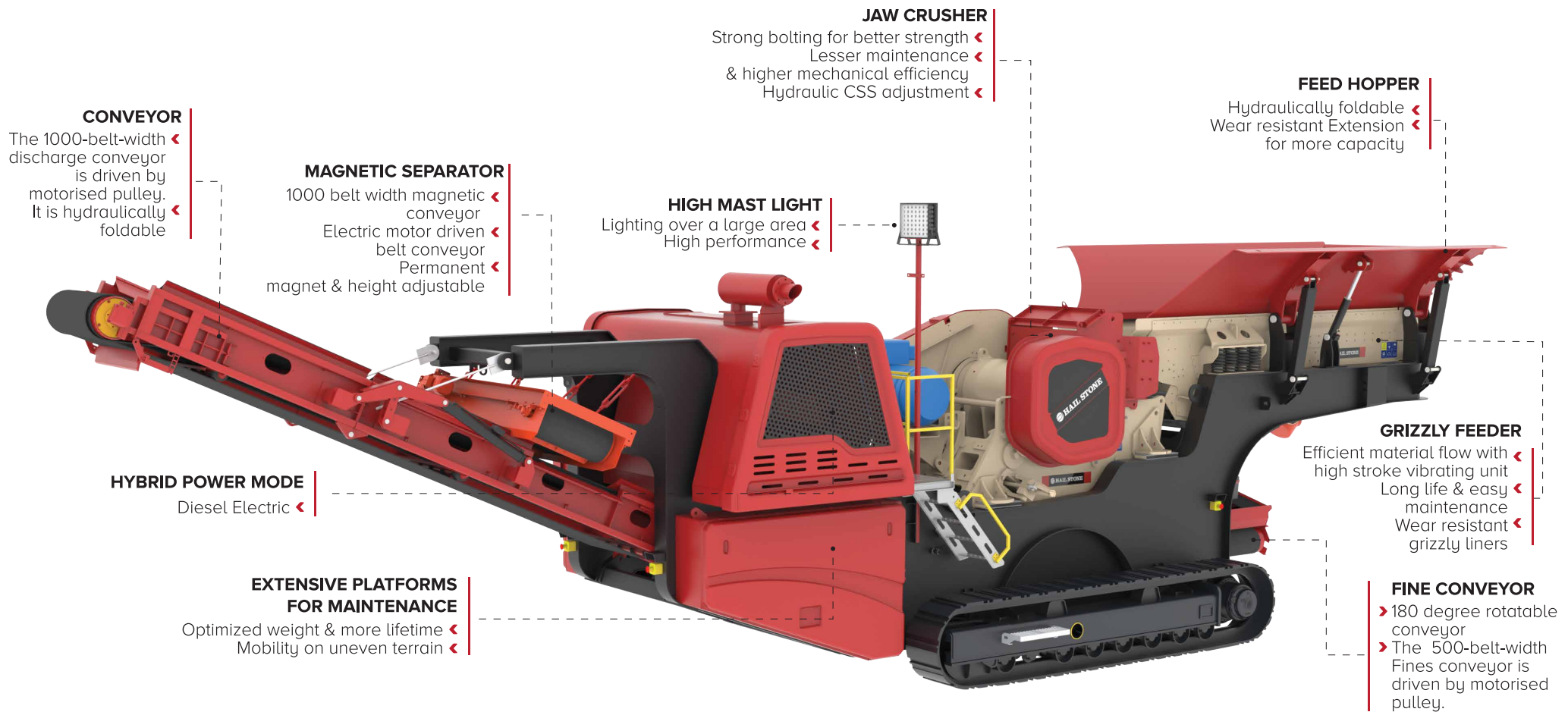
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# TRACK MOUNTED JAW

## Hail Track HT Series

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 in as recycling of demolition waste such as concrete & asphalt waste.



**EASY**  
TO MAINTAIN



**ENVIRONMENT**  
FRIENDLY



**ENERGY**  
EFFICIENT



**DURABLE &**  
RIGID DESIGN

# Technical Specification

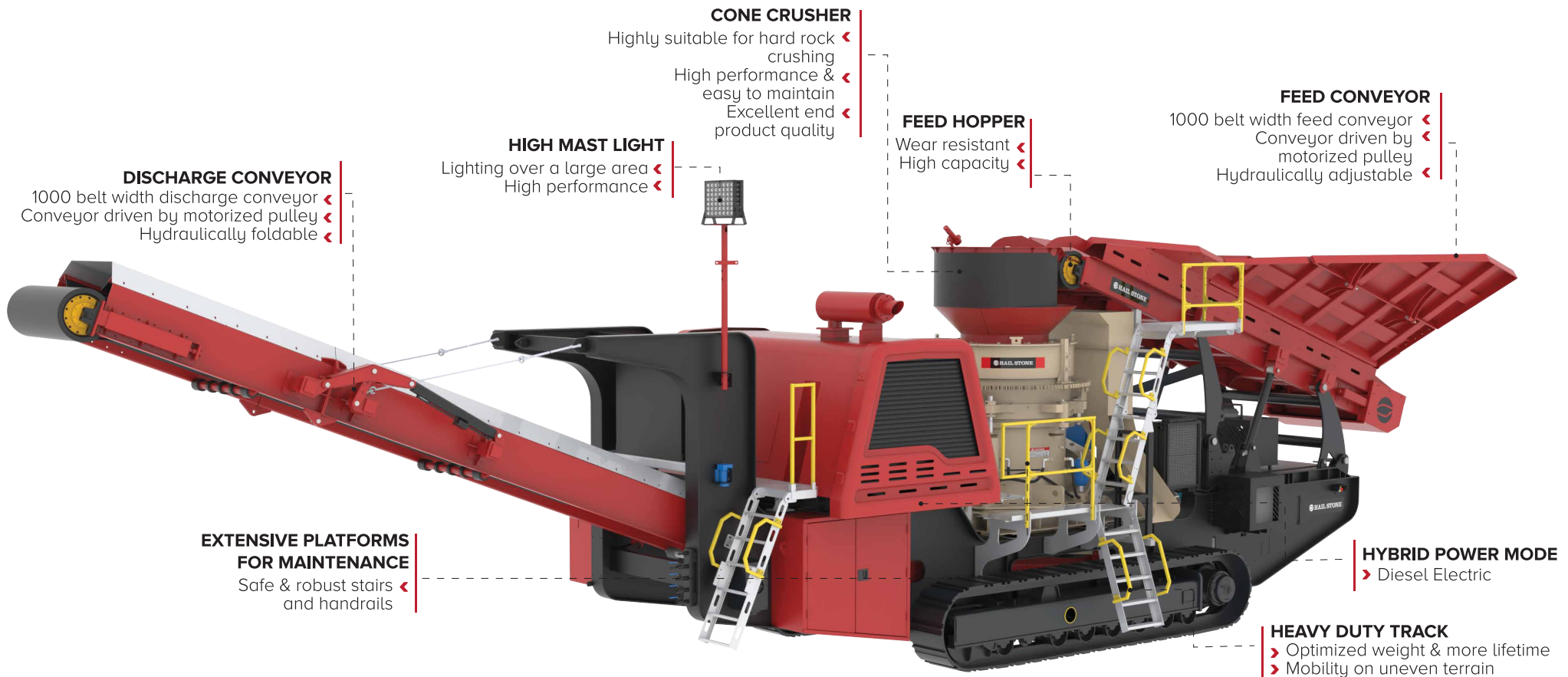
| Model                                    | HT130  |
|--|--|
| <b>Crusher</b>                           |  |
| Model                                    | JC130  |
| Opening Size, mm (in)                    | 1067 x 813 (42 x 32)                           |
| CSS Range, mm                            | 70 - 200                                       |
| *Capacity, Mtph                          | 127 - 520                                      |
| <b>System</b>                            |  |
| Hopper Capacity, m <sup>3</sup>          | 6/10*  |
| Grizzly Feeder                           | GFEM4211                                       |
| Feeder Size, mm (in)                     | 1100 x 4200<br>(43.3 x 165.3)                  |
| <b>Main Conveyor</b>                     |  |
| Belt Width, mm (in)                      | 1000 (39.4)                                    |
| Discharge Height, mm (in)                | 3800(149.6)                                    |
| Stock Pile Capacity, m <sup>3</sup> @40° | 82   |
| <b>Bypass Conveyor</b>                   |  |
| Belt Width, mm (in)                      | 500 (19.7)                                     |
| Discharge Height, mm (in)                | 2000 (78.8)                                    |
| Stock Pile Capacity, m <sup>3</sup> @40° | 12   |
| <b>Under Carriage</b>                    |  |
| Shoe Width, mm (in)                      | 500 (19.7)                                     |
| Gradability                              | 30°  |
| Hydraulic Tank Capacity, litre           | 300  |
| <b>Power Unit</b>                        |  |
| Power, kW                                | 190  |
| Generator power, kVA                     | 320  |
| Engine Alternator                        | Volvo/CAT<br>stamford                          |
| Diesel Tank Capacity, litre              | 600  |
| <b>Dimensions</b>                        |  |
| TRANSPORT (L x W x H), mm (in)           | 14614 x 3350 x 3633<br>(575.4 x 131.9 x 143.1) |
| WORKING (L x W x H), mm (in)             | 16399 x 3350 x 4199<br>(645.7 x 131.9 x 165.4) |
| WEIGHT, kg (lbs)                         | 53000 (116845)                                 |

Optional \*

# TRACK MOUNTED CONE

## Hail Track HT Series

Hailstone track mounted cone crusher shall be used as a secondary crusher in a multistage crushing process or as a stand-alone unit. It is ideal for fine and coarse aggregates production, as well as in recycling of concrete waste and asphalt waste.



**SUITED FOR RUGGED APPLICATION**



**ENVIRONMENT FRIENDLY**



**PLUG IN ELECTRICAL**



**READY TO RUN**

## Technical Specification

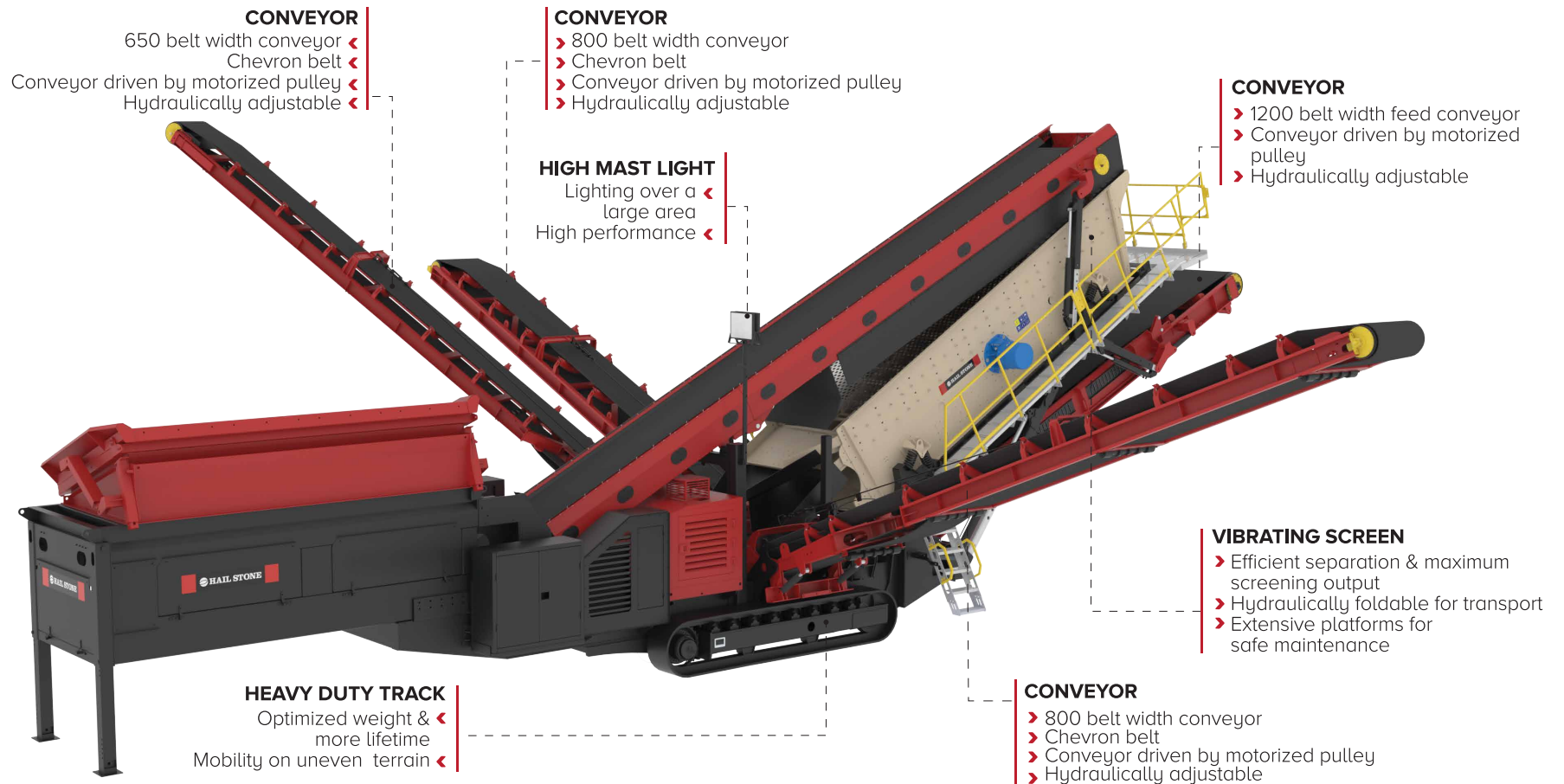
| Model                               | HT2500EC                                       |
|-------------------------------------|--|
| Crusher                             |  |
| Model                               | EC2500   |
| Opening Size, mm (in)               | 190 (7.5)                                      |
| Css range, mm (in)                  | 19-38 (0.75 - 1.5)                             |
| *Capacity, MtpH                     | 150 - 260                                      |
| System                              |  |
| Hopper Capacity, m <sup>3</sup>     | 6/9*   |
| Feed belt width, mm (in)            | 1000 (39.4)                                    |
| Feed height, mm (in)                | 2800 (110.3)                                   |
| Main Conveyor                       |  |
| Belt Width, mm (in)                 | 1000 (39.4)                                    |
| Discharge Height, mm (in)           | 3700 (145.7)                                   |
| Stock Pile Capacity, m <sup>3</sup> | 75   |
| Under Carriage                      |  |
| Shoe Width, mm (in)                 | 500 (20)                                       |
| Gradability                         | 30 <sup>o</sup>                                |
| Hydraulic Tank Capacity, litre      | 350  |
| Power Unit                          |  |
| Power, kW                           | 269  |
| Generator power, kVA                | 400  |
| Engine<br>Alternator                | Volvo/CAT<br>stamford                          |
| Diesel Tank Capacity, litre         | 600  |
| Dimensions                          |  |
| Transport (L x W x H), mm (in)      | 16500 x 3400 x 3650<br>(649.6 x 133.9 x 143.7) |
| Working (L x W x H), mm (in)        | 16750 x 3400 x 4348<br>(659.5 x 133.9 x 171.2) |
| Weight, kg (lbs)                    | 40000 (88184.9)                                |

Optional \*

# TRACK MOUNTED SCREEN

## Hail Track HT Series

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 a vibrating screen specially designed for screening in mobile applications.



**EASY  
TO MAINTAIN**



**ENVIRONMENT  
FRIENDLY**



**COMPACT  
DESIGN**



**LOW POWER  
CONSUMPTION**

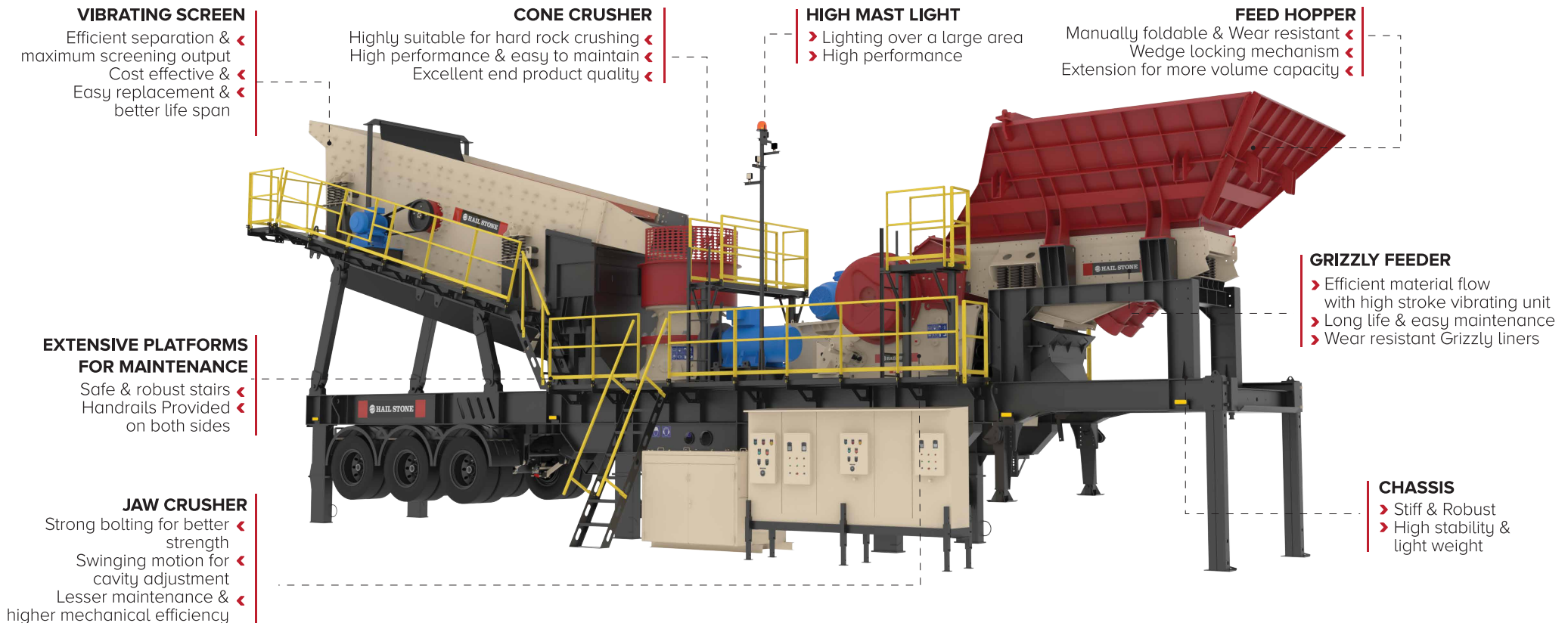


| Model   | HT309C                                       | HT411   |
|---|--|---|
| <b>SCREEN</b>   |  |   |
| Model   | VS1560-3D                                    | VS1860-4D   |
| Deck Size,mm (in)                                       | 6000 X 1500                                  | 6000 X 1800                                       |
| No. of Decks  | 3  | 4   |
| <b>Hopper</b>   |  |   |
| Hopper Capacity, m <sup>3</sup>                         | 7.5  | 21  |
| Feeding Height mm, (in)                                 | 4100 (161.5)                                 | 2750 (108.3)                                      |
| Grid  | Tipping Grid/Vibrating Grid                  | NA  |
| <b>Feeding Conveyor</b>                                 |  |   |
| Belt Width, mm (in)                                     | 1000 (39.4)                                  | 1200 (47.3)                                       |
| Feeding Height, mm (in)                                 | NA   | 3100 (122.1)                                      |
| <b>Override Conveyor   Product Conveyor - 1   2   3</b> |  |   |
| Belt Width,mm (in)                                      | 650 (25.6)   800 (31.5)   800 (31.5)         | 650 (25.6)   650 (25.6)   650 (25.6)   650 (25.6) |
| Discharge Height,mm (in)                                | 5060 (199.3)                                 | 5000 (196.9)                                      |
| Deck Size, mm (in)                                      | 193 (7.6)                                    | 186 (7.4)   |
| <b>Undersize Bottom Conveyor</b>                        |  |   |
| Belt Width, mm (in)                                     | 1200 (47.3)                                  | 1200 (47.3)                                       |
| Discharge Height, mm (in) @ 18°                         | 3025 (119.1)                                 | 3100 (122.1)                                      |
| Stock Pile Capacity, m <sup>3</sup>                     | 41   | 44  |
| <b>Under Carriage</b>                                   |  |   |
| Shoe Width, mm (in)                                     | 400 (15.8)                                   | 500 (19.7)  |
| Gradability, degree                                     | 30   | 30  |
| <b>Power Unit</b>                                       |  |   |
| Power, kW   | 129  | 128   |
| Generator power, kVA                                    | 125  | 125   |
| Engine Alternator                                       | JCB 109 KVA mG Drive with Stamford           | JCB 109 KVA mG Drive with Stamford                |
| Diesel Tank Capacity, litre                             | 300  | 800   |
| <b>Dimensions</b>                                       |  |   |
| Transport (L x w x h), mm (in)                          | 18556 x 3469 x 3670 (730.6 x 136.6 x 144.5)  | 16387 x 3400 x 3850 (645.2 x 133.9 x 151.6)       |
| Working (L x w x h), mm (in)                            | 19980 x 19034 x 5691 (786.7 x 749.4 x 224.1) | 16675 x 18656 x 6040 (656.5 x 734.5 x 237.8)      |
| Weight, kg (lbs)  | 43000 (94800)                                | 52000 (114640)                                    |

# WHEEL MOUNTED 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 unit and cone crusher unit especially designed for crushing hard rock types such as granite, basalt and gneiss as well Demolition waste.



**QUICK  
INSTALLATION**



**ERGONOMIC  
DESIGN**



**FASTER RETURN  
ON INVESTMENT**

# Technical Specification

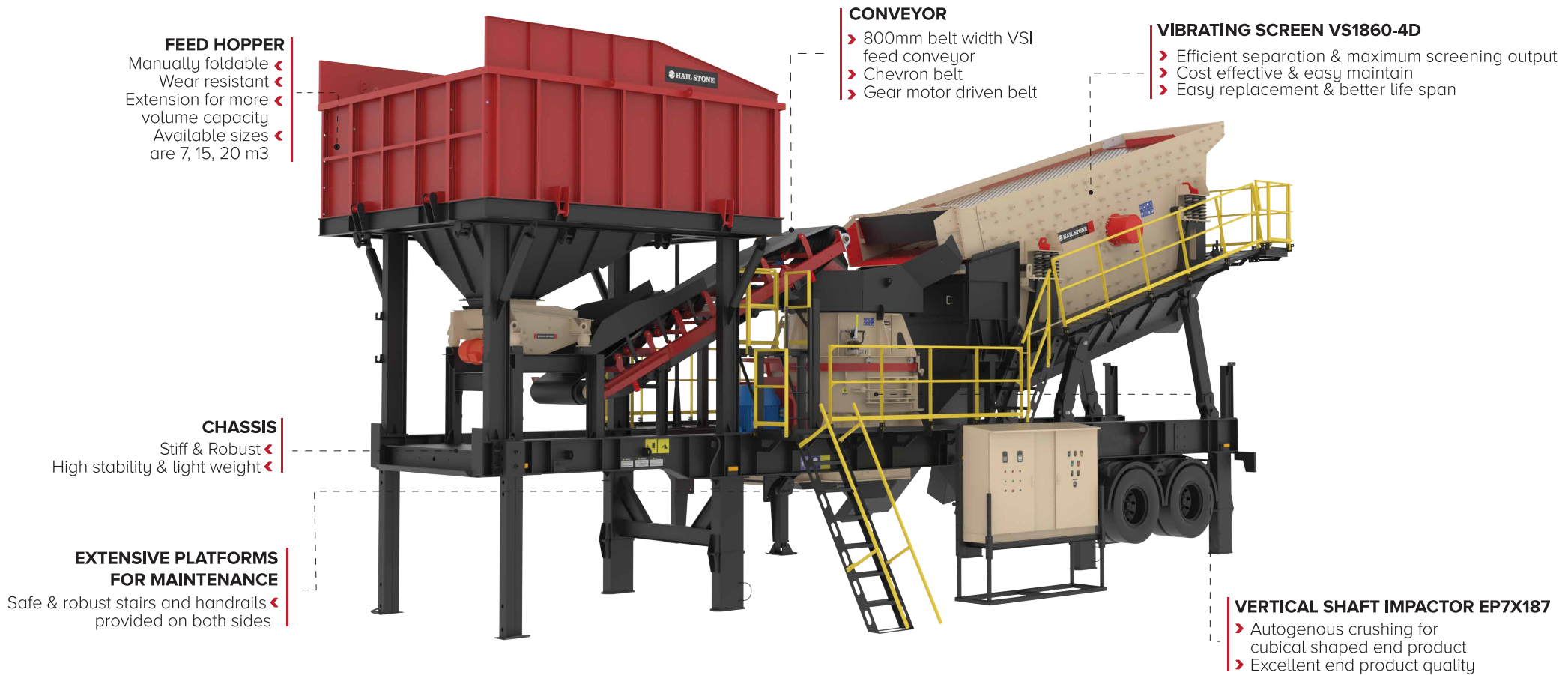
| Model                               | SMART J-HF150      | SMART J-HF230       |
|-------------------------------------|--------------------|---------------------|
| <b>Feeder</b>                       |                    |                     |
| Model                               | GFEM 3209          | GFEM 3211           |
| Grizzly Length, mm                  | 2 x 750            | 2 x 750             |
| Grizzly Gap, mm                     | 35-90              | 35-90               |
| Power, kW (hp)                      | 7.6 (10.1)         | 8.6 (11.5)          |
| Hopper Capacity, m <sup>3</sup>     | 5                  | 6.6                 |
| <b>Jaw Crusher</b>                  |                    |                     |
| Model                               | JC100              | JC130               |
| Opening size, mm x mm (inch x inch) | 914 X 660 (36X 26) | 1067 X 813 (42X 32) |
| C.S.S Range, mm                     | 60-175             | 70-200              |
| Capacity, TPH                       | 105-390            | 127-520             |
| Power, kW (hp)                      | 75 (100)           | 110(150)            |
| <b>Cone Crusher</b>                 |                    |                     |
| Model                               | HF150              | HF220               |
| Feed Opening size, mm               | 150                | 172                 |
| C.S.S Range, mm                     | 20 - 30            | 20 - 40             |
| Capacity, MtpH                      | 84 - 160           | 160 - 260           |
| Power, kW (hp)                      | 110 (150)          | 160 (220)           |

| Model                         | SMART J-HF150                         | SMART J-HF230                         |
|-------------------------------|---------------------------------------|---------------------------------------|
| <b>Screen</b>                 |                                       |                                       |
| Model                         | VS1850-4D                             | VS1850-4D                             |
| Width, mm                     | 1850                                  | 1850                                  |
| Length                        | 5000                                  | 5000                                  |
| No of Desk, nos               | 4                                     | 4                                     |
| Power, kW (hp)                | 15(20)                                | 15(20)                                |
| <b>Dimensions</b>             |                                       |                                       |
| Transport (L X W X H), mm(in) | 16561 x 3054 x 4700 (652 x 120 x 185) | 17320 x 3295 x 4700 (682 x 130 x 185) |
| Working (L X W X H), mm(in)   | 16156 x 5159 x 6651 (636 x 203 x 262) | 16714 x 5154 x 6651 (658 x 203 x 262) |
| Weight, Kg (lbs)              | 60000 (132277)                        | 75000 (165347)                        |

# WHEEL MOUNTED 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 crushing unit especially designed for crushing hard rock types such as granite, basalt and gneiss.



**QUICK**  
INSTALLATION



**EASY**  
TO MAINTAIN



**DURABLE**  
DESIGN



**LOW**  
OPERATION COST

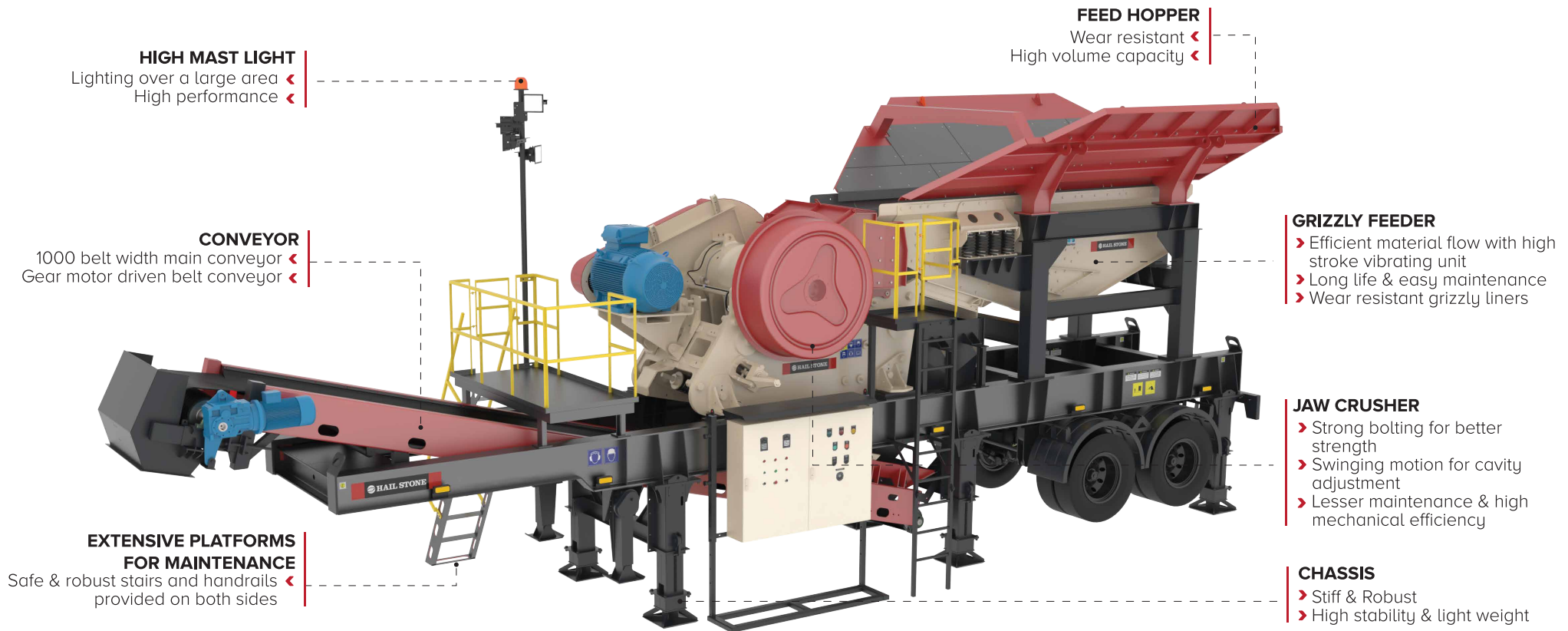
| Model                           |  | SMART EP-7X187 |
|---------------------------------|--|----------------|
| <b>Impactor</b>                 |  |                |
| Model                           | VSIEP7X187                               |                |
| Power, kW (hp)                  | 187 (250)                                |                |
| Number of drives                | 1  |                |
| Dry weight, kg (lbs)            | 6930 (15278)                             |                |
| Max. Recommended feed size*, mm | 37                                       |                |
| Throughput capacity, Mtph       | 150 - 170                                |                |
| <b>Vibrating Screen</b>         |  |                |
| Model                           | VS1850-4D                                |                |
| Deck Size, mm                   | 5000 X 1850                              |                |
| No. of Decks                    | 4  |                |
| <b>Feeder</b>                   |  |                |
| Model                           | PFVM12085                                |                |
| Capacity, Mtph                  | 150-220                                  |                |
| Motor Power, kW (hp)            | 1 X (2.2)                                |                |
| <b>Hopper</b>                   |  |                |
| Capacity, m <sup>3</sup>        | 7/15/20*                                 |                |
| Feeding Height, mm              | 5700*                                    |                |
| <b>VSI Feed Conveyor</b>        |  |                |
| Belt Width, mm                  | 800                                      |                |
| Length, m                       | 5  |                |
| Motor Power, kW (hp)            | 5.5                                      |                |
| <b>Dimensions</b>               |  |                |
| Transport (L X W X H), mm (in)  | 14945 x 3040 x 4650<br>(588 x 120 x 183) |                |
| Working (L X W X H), mm (in)    | 14300 x 6530 x 5800<br>(562 x 257 x 228) |                |
| Weight, kg(lbs)                 | 34000 (74957)                            |                |

\*Feed height depends upon hopper capacity

# WHEEL MOUNTED JAW CRUSHER

## HW-Jaw Crusher Series

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



**STIFF &  
ROBUST CHASSIS**



**SCALP  
GRIZZLY**

# Technical Specification

| Model                           | HW130  | HW145  |
|---------------------------------|--|--|
| <b>Crusher</b>                  |  |  |
| Model                           | JC130  | JC145  |
| Opening size, mm (in)           | 1067 x 813 (42 x 32)                         | 1143 x 876 (45 x 34.5)                         |
| C.S.S Range, mm                 | 70 - 200                                     | 70 - 225                                       |
| Capacity, tph                   | 150 - 170                                    | 150-550  |
| <b>System</b>                   |  |  |
| Hopper capacity, m <sup>3</sup> | 10   | 10   |
| Grizzly Feeder                  | GFEM4211                                     | GFEM4211                                       |
| Feeder size mm (in)             | 4200 x 1100 (165.3 x 43.3)                   | 4200 x 1100 (165.3 x 43.3)                     |
| <b>Main conveyor</b>            |  |  |
| Belt width ,mm (in)             | 1000 (39.4)                                  | 1000 (39.4)                                    |
| Discharge height, mm (in)       | 2088 (82.2)                                  | 2088 (82.2)                                    |
| <b>Bypass conveyor</b>          |  |  |
| Belt width ,mm (in)             | 500 (19.7)                                   | 500 (19.7)                                     |
| Discharge height mm (in)        | 1700 (67)                                    | 1700 (67)                                      |
| <b>Drive power</b>              |  |  |
| Total power, kw (hp)            | 135.6 (182)                                  | 157.6 (211.3)                                  |
| <b>Dimensions</b>               |  |  |
| Transport (L X W X H), mm (in)  | 12700 x 2910 x 4409<br>(500 x 114.6 x 173.4) | 13000 x 2910 x 4409<br>(511.8 x 114.6 x 173.4) |
| Working (L X W X H), mm (in)    | 13384 x 4818 x 5422<br>(527 x 190 x 213.5)   | 13884 x 4818 x 5422<br>(547 x 190 x 213.5)     |
| Weight, kg (lbs)                | 37365 (82376)                                | 41000 (90400)                                  |

# 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. According to the crushing requirement, two or three stages portable processes, one can find the right cone crushers from the EC and HF series.



### 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 <

### VIBRATING SCREEN

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

### CHASSIS

- > Stiff & Robust
- > High stability & light weight

### EXTENSIVE PLATFORMS FOR MAINTENANCE

- > Safe & robust stairs and handrails provided on both sides



**HIGHER  
CAPACITY**



**EXCELLENT  
PRODUCT QUALITY**



**BUILT - IN  
SAFETY FEATURES**



**EFFICIENT  
AND RELIABLE**



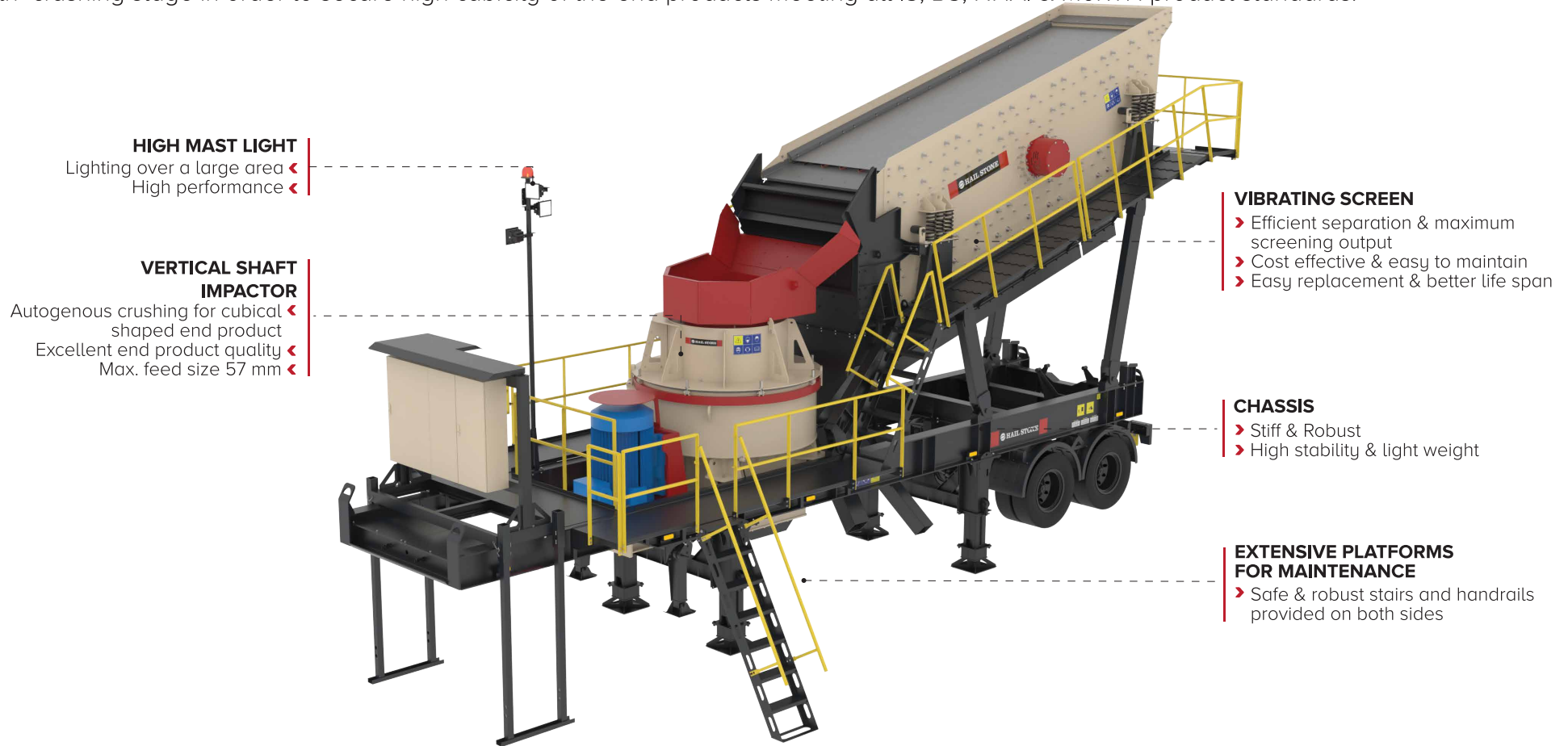
# Technical Specification

| Model                          | HW220                                      | HW270  | HW250                                      | HW300  |
|--------------------------------|--|--|--|--|
| Crusher                        |  |  |  |  |
| Model                          | HW220                                      | HW270  | EC2500                                     | EC3000                                       |
| Maximum Feed, Mm (In)          | 150 (6)                                    | 137 (5 <sup>25/64</sup> )                    | 190 (7 <sup>31/64</sup> )                  | 200 (7 <sup>7/8</sup> )                      |
| C.S.S Range, mm                | 10 - 40                                    | 8 - 40                                       | 10 - 38                                    | 8 - 45                                       |
| Capacity, tph                  | 100 - 260                                  | 70 - 280                                     | 120 - 275                                  | 160 - 400                                    |
| Screen                         |  |  |  |  |
| Model                          | DS1860-4D                                  | DS1860-4D                                    | DS1860-4D                                  | DS1860-4D                                    |
| Length, mm (in)                | 6000 (236.3)                               | 6000 (236.3)                                 | 6000 (236.3)                               | 6000 (236.3)                                 |
| Width, mm (in)                 | 1850 (72.8)                                | 1850 (72.8)                                  | 1850 (72.8)                                | 1850 (72.8)                                  |
| Power, kw (hp)                 | 15 (20)                                    | 15 (20)                                      | 15 (20)                                    | 15 (20)                                      |
| Drive power                    |  |  |  |  |
| Total power, kw (hp)           | 175 (235)                                  | 247 (331)                                    | 175 (235)                                  | 247 (331)                                    |
| Dimensions                     |  |  |  |  |
| Transport (L X W X H), mm (in) | 14020 x 2747 x 4510<br>(552 x 108 x 177.6) | 14084 x 2747 x 4510<br>(554.5 x 108 x 177.6) | 14020 x 2710 x 4473<br>(552 x 106.4 x 176) | 13998 x 2710 x 4473<br>(551.2 x 106.4 x 176) |
| Working (L X W X H), mm (in)   | 13146 x 5282 x 7651<br>(517.6 x 208 x 301) | 11940 x 5282 x 7650<br>(470 x 208 x 301)     | 13146 x 5282 x 7651<br>(517.6 x 208 x 301) | 11940 x 5282 x 7650<br>(470 x 208 x 301)     |
| Weight, kg (lbs)               | 34020 (75001)                              | 40152 (88520)                                | 37100 (81791)                              | 43524 (95954)                                |

# 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 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, NHA1 & MoRTH product standards.



**HIGH VALUE PROPOSITION**



**HIGHER QUALITY**



**MINIMIZED COST**



**HIGH CLASSIFICATION**

# Technical Specification

| Model                               | HW7X                                       | HW8X   |
|-------------------------------------|--|--|
| <b>Crusher</b>                      |  |  |
| Model                               | EP7X160                                    | EP8X225                                      |
| Feeding size, mm (in)               | 32 (1.3)                                   | 37 (1.5)                                     |
| Capacity, tph                       | 60 - 220                                   | 150 - 350                                    |
| <b>Screen</b>                       |  |  |
| Model                               | DS1860-4D                                  | DS1860-4D                                    |
| Length, mm (in)                     | 6000 (236.3)                               | 6000 (236.3)                                 |
| Width, mm (in)                      | 1850 (72.8)                                | 1850 (72.8)                                  |
| Power, kW(hp)                       | 15 (20)                                    | 15 (20)                                      |
| <b>Drive power</b>                  |  |  |
| Total power, kW (hp)                | 160 (220)                                  | 225 (300)                                    |
| <b>Dimensions</b>                   |  |  |
| Transportation (L x W x H), mm (in) | 13940 x 2540 x 4650<br>(548.9 x 100 x 183) | 14004 x 2554 x 4650<br>(551.4 x 100.2 x 183) |
| Working (L x W x H), mm (in)        | 12937 x 5512 x 7343<br>(509 x 217 x 289)   | 12997 x 5512 x 7343<br>(512 x 217 x 289)     |
| Weight, kg (lbs)                    | 30500 (1200.8)                             | 32000 (1259.9)                               |

# 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.



**NON-WELDED  
DESIGN**



**BETTER  
ANCHORING**



**EASY  
OPERATION**



**FASTER  
ROI**

# Technical Specification

| Model                           | JC100               | JC130                | JC145                  | JC180                  | JC220                   |
|---------------------------------|---------------------|----------------------|------------------------|------------------------|-------------------------|
| Feed opening, mm x mm (in x in) | 914 x 660 (36 x 26) | 1067 X 813 (42 X 32) | 1143 x 876 (45 x 34.5) | 1194 x 945 (47 x 37.2) | 1320 x 1080 (52 x 42.5) |
| CSS range, mm                   | 60-175              | 70-200               | 70-225                 | 70-225                 | 100-250                 |
| Total weight, kg (lbs)          | 12200 (26896.4)     | 19690 (43409)        | 22000 (53572.4)        | 32900 (72532)          | 44200 (97444.4)         |
| 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 ¾)                        | 105 - 135           | -                    | -                      | -                      | -                       |
| 70 (2 ¾)                        | 125 - 155           | 127 - 180            | 150 - 210              | 170 - 230              | -                       |
| 80 (3 ½)                        | 140 - 180           | 160 - 220            | 170 - 235              | 190 - 268              | -                       |
| 90 (3 ½)                        | 160 - 200           | 195 - 230            | 180 - 270              | 205 - 298              | -                       |
| 100 (4)                         | 175 - 225           | 208 - 265            | 205 - 290              | 230 - 322              | 245 - 375               |
| 125 (5)                         | 220 - 280           | 260 - 330            | 250 - 350              | 280 - 388              | 295 - 450               |
| 150 (6)                         | 265 - 335           | 310 - 390            | 310 - 420              | 335 - 471              | 340 - 520               |
| 175 (7)                         | 310 - 390           | 360 - 455            | 380 - 480              | 380 - 538              | 410 - 590               |
| 200 (8)                         | -                   | 400 - 520            | 420 - 550              | 504-610                | 430 - 665               |
| 225 (9)                         | -                   | -                    | -                      | -                      | 510 - 705               |
| 250 (10)                        | -                   | -                    | -                      | -                      | 560 - 805               |

# 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.



**EXCELLENT**  
VERSATILITY



**SAFE**  
TO OPERATE



**EASY**  
TO HANDLE

# Technical Specification

| Model                   | HF150                            | HF220  | HF270   |
|-------------------------|----------------------------------|--|---|
| Drive power, kW (hp)    | 75 / 110 (100 - 150)             | 132 / 160 (180 - 220)  | 132 / 220 (175 - 300)   |
| Total weight, kg (lbs)  | 10520 (23143)                    | 13500 (29765)  | 15800 (34833)   |
| Stroke options, mm (in) | 25,30<br>(1, 1 <sup>3/16</sup> ) | 18,22,28,36<br>(11/16, 7/8, 1 <sup>7/64</sup> , 1 <sup>13/32</sup> ) | 18,25,28,32,36,40<br>(11/16, 1, 1 <sup>7/64</sup> , 1 <sup>1/4</sup> , 1 <sup>13/32</sup> , 1 <sup>9/16</sup> ) |

| Cavity         | Feed Opening             |                           |                          |
|----------------|--------------------------|---------------------------|--------------------------|
| Fine, mm (in)  | 95 (3 <sup>3/4</sup> )   | 90 (3 <sup>27/50</sup> )  | 90(3 <sup>35/64</sup> )  |
| Coarse, mm(in) | 160 (6 <sup>5/16</sup> ) | 172 (6 <sup>19/25</sup> ) | 213 (7 <sup>82/5</sup> ) |

| Closed Side Setting<br>mm (In) | Capacity (Mtph) |           |         |
|--------------------------------|-----------------|-----------|---------|
|                                | HF150           | HF220     | HF270   |
| 8 (5/16)                       | -               | -         | 70-90   |
| 10 (3/8)                       | 58 - 95         | 70 - 90   | 80-130  |
| 15 (19/32)                     | 65 - 123        | 77 - 99   | 105-175 |
| 20 (25/32)                     | 84 - 135        | 100 - 110 | 120-230 |
| 25 (1)                         | 105 - 147       | 126 - 165 | 150-265 |
| 30 (1 <sup>3/16</sup> )        | 132 - 160       | 144 - 205 | 165-280 |
| 35 (1 <sup>3/8</sup> )         | -               | 162 - 250 | -       |
| 40 (1 <sup>9/16</sup> )        | -               | 175 - 260 | -       |

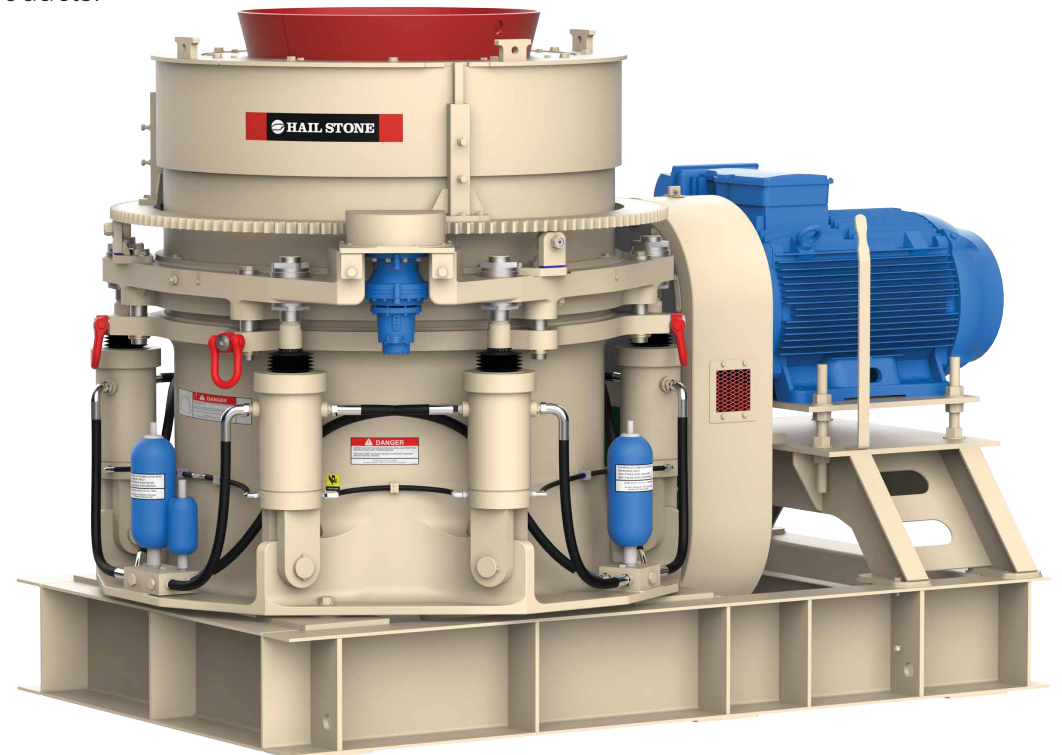
# CONE CRUSHER

## EC Series

Hailstone EC series cone crushers are an excellent choice as secondary crushers in combination with a jaw or a primary gyratory crusher or in the third or fourth crushing stage. Thanks to their versatility, these crushers will enable you to cope with most production requirements in the changing future.

Operation cost is minimized by incorporating hydraulic chamber adjustments for easier operation & thereby resulting in faster ROI.

The crushing speed and throw were well designed for better inter-particle crushing action which yields better production and high quality shaped products.



**HIGH**  
PERFORMANCE



**MAXIMUM**  
AVAILABILITY



**EXCELLENT**  
VERSATILITY



**EASY**  
TO OPERATE



# Technical Specification

| Model                       | EC2500        | EC3000        | EC3500        | EC4000        |
|-----------------------------|---------------|---------------|---------------|---------------|
| Maximum feed opening,mm(in) | 190 (7 1/2)   | 200 (7 7/8)   | 241 (9 1/2)   | 255 (10)      |
| Total weight, kg (lbs)      | 17000 (37480) | 21500 (47400) | 24000 (52911) | 26500 (58423) |
| Drive power, kW (hp)        | 160 (220)     | 225 (300)     | 250 (335)     | 315 (425)     |

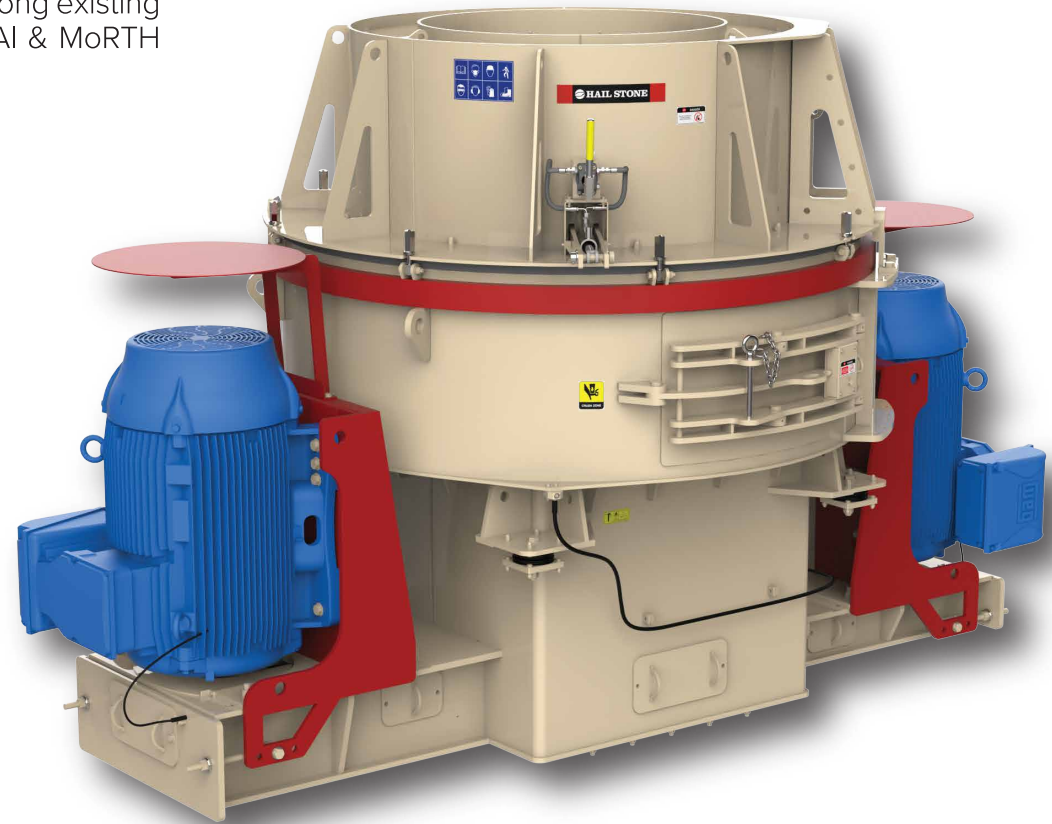
| Closed Side Setting<br>mm (In) | Capacity (Mtph) |         |           |           |
|--------------------------------|-----------------|---------|-----------|-----------|
|                                | EC2500          | EC3000  | EC3500    | EC4000    |
| 10 (3/8)                       | 99 - 143        | 105-150 | 127 - 154 | 155 - 210 |
| 13 (1/2)                       | 132 - 176       | 130-185 | 165 - 204 | 195 - 265 |
| 16 (5/8)                       | 149 - 204       | 155-230 | 198 - 242 | 235 - 315 |
| 19 (3/4)                       | 165 - 215       | 180-250 | 220 - 264 | 260 - 345 |
| 22 (7/8)                       | 176 - 231       | 190-260 | 242 - 286 | 285 - 375 |
| 25 (1)                         | 187 - 253       | 210-290 | 253 - 308 | 300 - 400 |
| 32 (1 1/4)                     | 204 - 264       | 220-310 | 275 - 352 | 310 - 440 |
| 38 (1 1/2)                     | 220 - 286       | 240-350 | 330 - 418 | 360 - 500 |
| 45 (1 3/4)                     | -               | 280-400 | 385 - 484 | 400 - 555 |

# VERTICAL SHAFT IMPACTOR

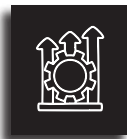
EP Series

Hailstone Vertical Shaft Impactor improves the and shape of stone, reducing 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 majority of IS, BS, NHAI & MoRTH product standards.



**MINIMIZED  
COST**



**EXCELLENT  
CRUSHABILITY**



**HIGH  
QUALITY PRODUCTS**



**BENEFITS  
OF CASCADE**

# Technical Specification

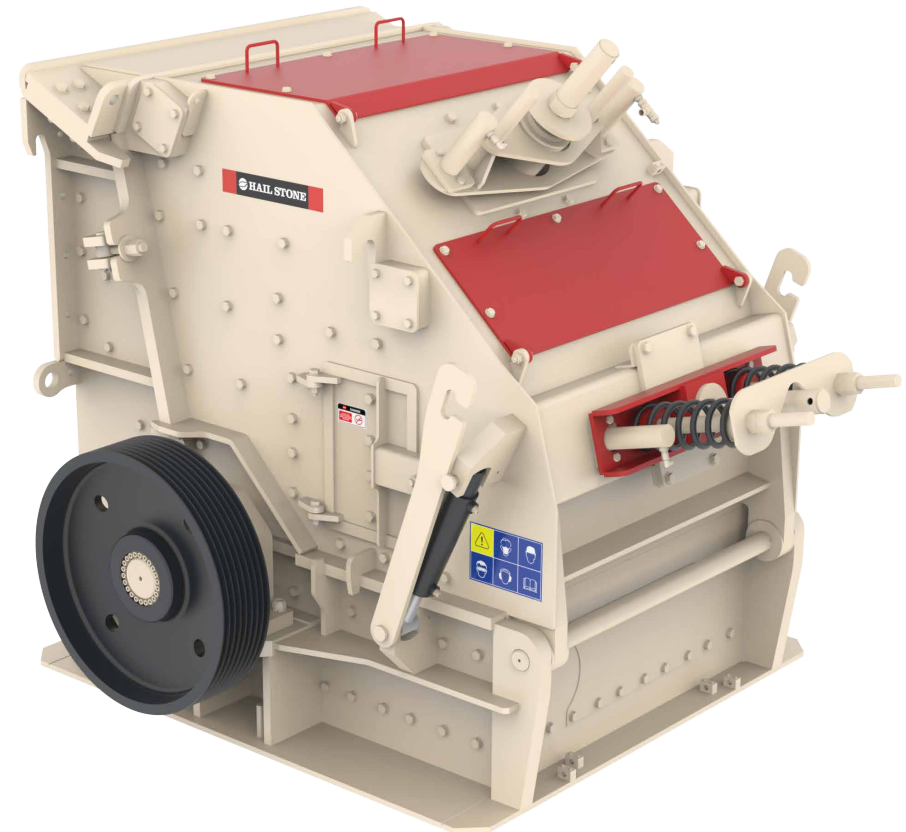
| Model                                | EP6X55         | EP6X75          | EP6X110         | EP7X160         | EP7X187         | EP8X225         | EP8XX320         | EP8XX374         | EP10XX450        | EP10XX630        |
|--------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Power, kW (hp)                       | 55 (75)        | 75 (100)        | 110 (150)       | 160 (220)       | 187 (250)       | 225 (300)       | 320 (440)        | 374 (500)        | 450 (600)        | 630 (850)        |
| Number of drives                     | 1              | 1               | 1               | 1               | 1               | 1               | 2                | 2                | 2                | 2                |
| Dry weight, kg (lbs)                 | 4500<br>(9921) | 4800<br>(10582) | 5200<br>(11464) | 6880<br>(15167) | 6930<br>(15278) | 9325<br>(20558) | 10840<br>(23898) | 10950<br>(24141) | 12655<br>(27899) | 13275<br>(29266) |
| Max. Recommended feed size*, mm (in) | 32 (1.3)       | 32 (1.3)        | 32 (1.3)        | 37 (1.5)        | 37 (1.5)        | 57 (2.3)        | 57 (2.3)         | 57 (2.3)         | 64 (2.6)         | 64 (2.6)         |
| Throughput capacity, MtpH            | 40 - 80        | 45 - 100        | 60 - 160        | 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. Liners used are adaptable for sticky materials which makes the HSI different from other crushers by making it suitable for all rocks.



**COMPACT**  
DESIGN



**HIGHER**  
CAPACITY



**EXCELLENT**  
REDUCTION RATIO

# Technical Specification

| Model                       | HSSI 1110             | HSSI 1213              |
|-----------------------------|-----------------------|------------------------|
| Power, kW (hp)              | 160 - 250 (220 - 340) | 200 - 250 (250 - 350)  |
| Capacity range, Mtp/h       | 180 - 250             | 180 - 280              |
| Dry weight, kg (lbs)        | 14750 (32518)         | 14000 (30865)          |
| Maximum feed size, mm (in)  | 150 (5.9)             | 400 (15.7)             |
| Feed opening (LxW), mm (in) | 1120 x 200 (44 x 7.8) | 1320 x 879 (52 x 34.6) |
| No. of blow bar             | 4                     | 4                      |
| Application                 | Tertiary              | Secondary/Tertiary     |

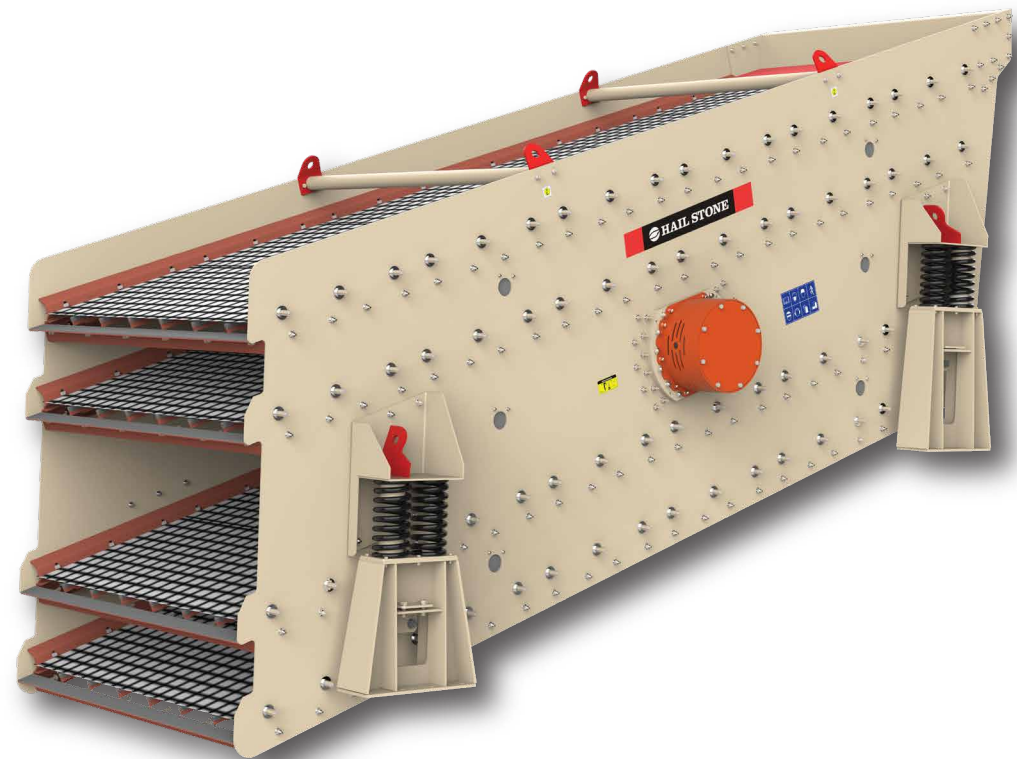
# VIBRATING SCREEN

## 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.

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.



**COMPACT**  
AND MODULAR DESIGN



**COST**  
EFFECTIVE



**EASY**  
TO MAINTAIN

# Technical Specification

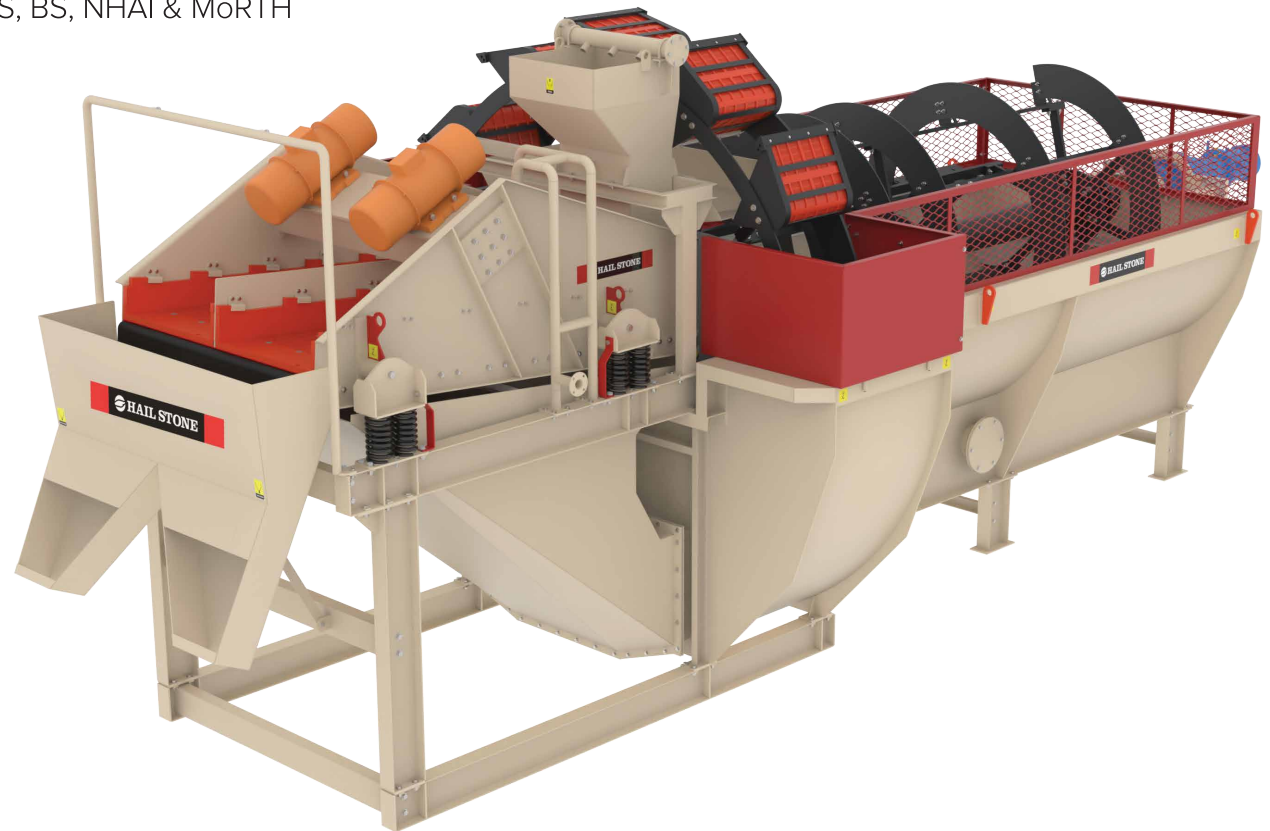
| Model       | Length mm | Width mm | Screening Area m <sup>2</sup> | Approximate Weight Kg (lbs) | Number Of Decks | Drive Power kW (hp) |
|-------------|-----------|----------|-------------------------------|-----------------------------|-----------------|---------------------|
| VS400150-2D | 4000      | 1500     | 6                             | 4051 (8931)                 | 2               | 15 (20)             |
| VS400150-3D |           |          |                               | 4560 (10053)                | 3               | 15 (20)             |
| VS400150-4D |           |          |                               | 6294 (13876)                | 4               | 15 (20)             |
| VS1845-2D   | 4500      | 1850     | 8.3                           | 5220 (11508)                | 2               | 15 (20)             |
| VS1845-3D   |           |          |                               | 5220 (11508)                | 3               | 15 (20)             |
| VS1845-4D   |           |          |                               | 6240(13757)                 | 4               | 15 (20)             |
| VS1855-3D   | 5500      | 1850     | 10.17                         | 6350 (14000)                | 3               | 15 (20)             |
| 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)             |
| 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.



**SUPREME**  
ENGINEERING



**ECONOMICAL**



**COMPACT**  
DESIGN



**EASY**  
TO MAINTAIN



# Technical Specification

| Model                                 | BCD1209                 | BCD1412                  | BCD1815                  | DUO80                    | DUO120                   | DUO160   |
|---------------------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| Drive power, kW (hp)                  | 5.5<br>(7.5)            | 7.5<br>(10)              | 15<br>(20)               | 5.5<br>(7.5)             | 7.5<br>(10)              | 7.5<br>(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)<br>2 x 3.8(RS)                              |
| Number of products                    | 1                       | 1                        | 1                        | 2                        | 2                        | 2  |
| Capacity, MtpH                        | 45-60                   | 60-80                    | 90 - 120                 | 40 - 80                  | 70 - 90                  | 100 - 130  |
| Maximum feed size, mm                 | < 8                     | < 8                      | < 8                      | < 8                      | < 8                      | < 8  |
| Approximate weight, kg (lbs)          | 7622<br>(16804)         | 8522<br>(18788)          | 12032<br>(26526)         | 5440<br>(11993)          | 8630<br>(19026)          | 13164<br>(29022)   |
| Dewatering screen size (LxW), mm (in) | 2100 x 900<br>(83 x 35) | 2100 x 1200<br>(83 x 47) | 2450 x 1500<br>(96 x 59) | 2117 x 1270<br>(83 x 50) | 2480 x 1446<br>(98 x 57) | 1840 x 1146(DWS) (73 x 33)<br>2800 x 1300(RS) (110 x 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. 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.



**MODULAR**  
TECHNOLOGY



**CYCLONE**  
DESIGN



**LOWER**  
OPEX

# Technical Specification

| Model                              |                                | ADDWASH85                | ADDWASH125               | ADDWASH205            | ADDWASH250                  | ADDWASH305            |
|------------------------------------|--------------------------------|--------------------------|--------------------------|-----------------------|-----------------------------|-----------------------|
| Total power,kW (hp)                |                                | 22.6                     | 26.1                     | 46                    | 62.2                        | 77                    |
| Water required, m <sup>3</sup> /hr |                                | 150                      | 180                      | 250                   | 300                         | 350                   |
| Capacity, MtpH                     |                                | 50 - 70                  | 70 - 105                 | 110-155               | 150 - 195                   | 240-295               |
| De watering screen                 | Screening Size, (LxW)mm (in)   | 2400 x 1200<br>(96 x 48) | 2400 x 1800<br>(96 x 72) | 4000x2100<br>(160x84) | 3200 x 1500<br>(126 x 59.1) | 4000x2100<br>(160x84) |
|                                    | Motor Power,kW(hp)             | 7.6                      | 7.6                      | 16                    | 8.6                         | 16                    |
| Rinser screen                      | Screening Size,(L x W),mm (in) | -                        | -                        | -                     | 4000 x 1500<br>(160 x 59.1) | 4800x2100<br>(192x84) |
|                                    | Motor Power, kW(hp)            | -                        | -                        | -                     | 8.6                         | 16                    |
| Slurry pump size                   | Suction,in                     | 4                        | 6                        | 6                     | 8                           | 8                     |
|                                    | Discharge,in                   | 3                        | 4                        | 4                     | 6                           | 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.



**EASY**  
TO INSTALL



**HYDRAULIC**  
FLOCCULANT SYSTEM



**ROBUST**  
RAKE SYSTEM



**BEST LONG - TERM**  
PERFORMANCE

## Technical Specification

| Model                                  | CF120      | CF200      | CF300   |
|--|------------|------------|---------|
| Maximum feed rate (m <sup>3</sup> /hr) | 200        | 400        | 900     |
| Sludge flow rate, Mtpd                 | 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, m                       | 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) |

# FEEDER

## Pan 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 Hardox plated Feeders are compatible with wide range of crushing equipment.



**LONG LASTING**  
WEAR PARTS



**FLEXIBLE & RELIABLE**  
IN OPERATION



**EASY**  
INSTALLATION



**MINIMUM**  
DOWNTIME

## Technical Specification

| Model                        | PFVM17580   | PFVM2208    | PFVM2210    | PFVM2012    |
|------------------------------|-------------|-------------|-------------|-------------|
| Effective length, mm         | 1750        | 2200        | 2200        | 2000        |
| Effective width, mm          | 800         | 800         | 1000        | 1250        |
| Power, kW (hp)               | 2 x 1.5     | 2 x 2.29    | 2 x 3.8     | 2 x 3.8     |
| Capacity, Mtp/h              | 150-200     | 250-350     | 400 - 450   | 500 - 550   |
| Approximate weight, kg (lbs) | 1025 (2260) | 1145 (2524) | 1479 (3261) | 1729 (3812) |
| Top size of feed, mm         | 200         | 200         | 215         | 300         |

# 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.



**LONG LASTING**  
WEAR PARTS



**FLEXIBLE & RELIABLE**  
IN OPERATION



**EASY**  
INSTALLATION



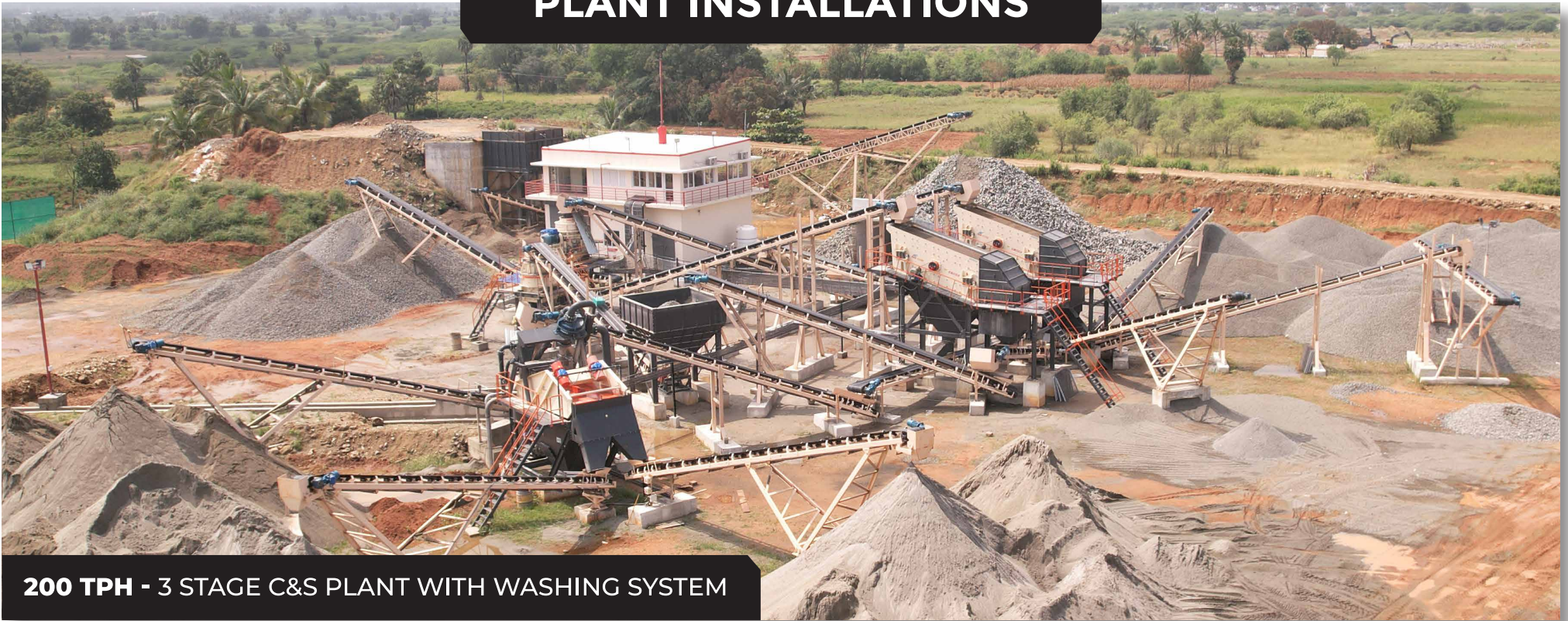
**MINIMUM**  
DOWNTIME



## Technical Specification

| Model                        | GFEM3209    | GFEM4211    | GFEM4513     | GF6113       |
|------------------------------|-------------|-------------|--------------|--------------|
| Effective length, mm         | 3200        | 4200        | 4500         | 6100         |
| Effective width, mm          | 900         | 1100        | 1300         | 1300         |
| Power, kW (hp)               | 2 X 3.8     | 2 X 5.5     | 2 X 7.5      | 1 X 30       |
| Capacity, MtpH               | 250 - 300   | 350 - 400   | 500 - 550    | 550 - 600    |
| Approximate weight, kg (lbs) | 2750 (6063) | 4250 (9370) | 6278 (13840) | 8000 (17635) |
| Top size of feed, mm         | 450         | 700         | 1100         | 1200         |

# PLANT INSTALLATIONS



**200 TPH - 3 STAGE C&S PLANT WITH WASHING SYSTEM**



**250 TPH - 3 STAGE C&S PLANT WITH WASHING SYSTEM**



**350 TPH - 3 STAGE C&S PLANT WITH WASHING SYSTEM**



**350 TPH - 3 STAGE C&S PLANT WITH WASHING SYSTEM**



**SMART 200 TPH - 2 STAGE C&S PLANT**



**TRACK MOUNTED JAW CRUSHER**



MINING | CRUSHING | SCREENING | WASHING | RECYCLING SOLUTIONS



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