

# Powerscreen® XV350

## Vertical Shaft Impactor

SPECIFICATION - Rev 6. 01-01-2017

---



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

| Specification        |               | XV350                                                              |
|----------------------|---------------|--------------------------------------------------------------------|
| <b>Total weight</b>  |               | 36,900kg (81,350lbs) (Heavy Duty four port rotor & rock shelf)     |
| <b>Transport</b>     | <b>Length</b> | 15.45m (50' 8")                                                    |
|                      | <b>Width</b>  | 3.0m (9' 10")                                                      |
|                      | <b>Height</b> | 3.85m (12' 8")                                                     |
| <b>Working</b>       | <b>Length</b> | 15.6m (51' 2")                                                     |
|                      | <b>Width</b>  | 3.85m (12' 8")                                                     |
|                      | <b>Height</b> | 4.6m (15' 1")                                                      |
| <b>Crusher type:</b> |               | Terex Canica 2050 Vertical Shaft impactor (VSI)                    |
| <b>Powerunit:</b>    |               | Caterpillar C-13 ACERT 328 kW (440hp) or Scania DC13 331kW (450hp) |
| <b>Paint colour:</b> |               | Blue RAL 5021, Grey RAL 7024, Black RAL 9005                       |

## Features & Benefits

The Powerscreen XV350 Vertical Shaft Impactor is a high capacity tracked crusher designed to offer both excellent particle shape & high consistency of product yield. The XV350 excels at producing high specification, shaped products.

A range of crushing configurations are available, these allow the versatile XV350 to produce materials suitable for applications including road building, concrete manufacture, manufactured sand, slag, and glass recycling.

- Output potential up to 350 tph (386 US tph)
- Suitable for a variety of feed materials
- Excellent for producing manufactured sand
- Wide variable speed feed belt with hydraulic raise & lower
- Integrated Measured Feed Regulation (MFR) for optimum feeding
- Proven TEREX Canica 2050 VSI crusher
- Vibration Sensory Monitoring (VSM)
- Lid Lifting Mechanism (LLM) for quick & safe 'change-out'
- Automatic Lubrication System (ALS) with temp & flow analysis
- Economical to operate with a highly fuel efficient direct drive system
- Dust suppression system
- Heavy duty fabricated chassis & track frame

## Applications

### Aggregate

- Sand & gravel
- Blasted rock
- River rock

### Recycling

- C&D waste
- Foundry waste

### Mining

- Processed ores
- Processed minerals

All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## VSI Crusher - Automated Crushing

### TEREX® Canica 2050GD

- 350tph maximum throughput (depending on application)
- Countershaft drive through crusher
- 810-1750rpm crusher speed range
- 41m/s - 77m/s tip speed range depending on configuration
- 100mm maximum feed size depending on configuration

### Automated Crushing

Powerscreen is constantly pushing the boundaries of modern technology through research & development to ensure it remains firmly at the pinnacle of the tracked crushing & screening market.

By investing in research, Powerscreen is helping its customers to maximise production & profitability.

Powerscreen includes a range of devices within the XV350 to provide maximum automation for simplicity in plant operation. Powerscreen offers this automation through the ALS, VSM & MFR control monitoring devices. These devices allow the operator to constantly utilise the full potential of the XV350.

### Automated Lubrication System (ALS)

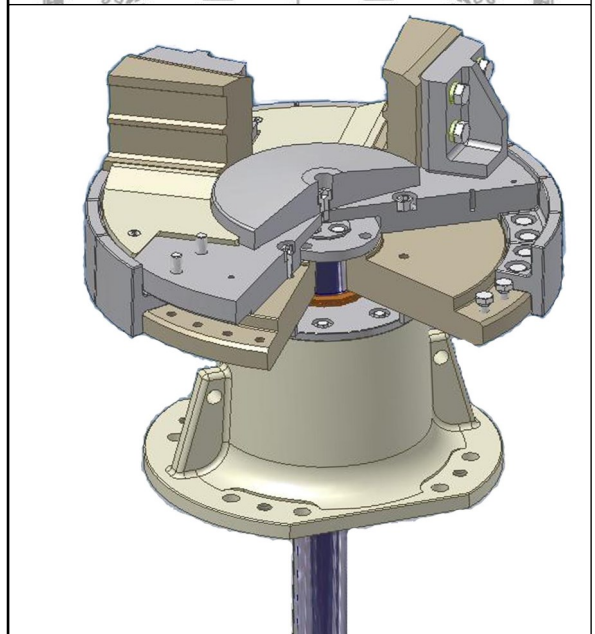
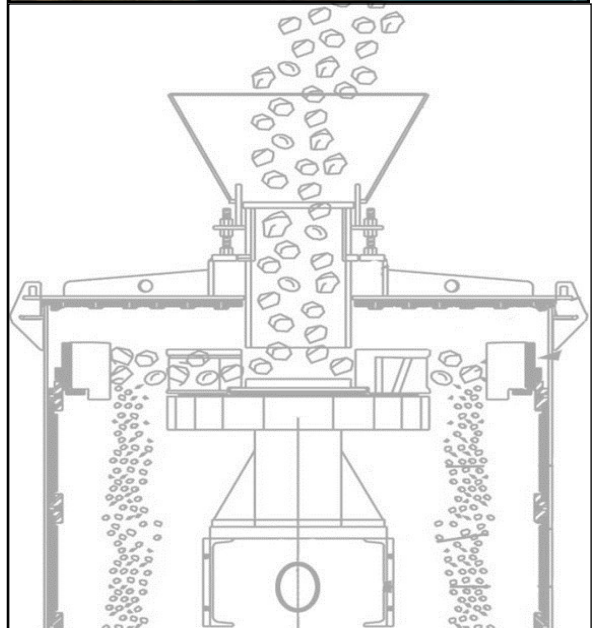
Has been designed to maximise the crusher life & effectiveness. The system comprises an isolated lubrication tank & pump with temperature & flow rate monitoring devices to ensure that the moving components of the crusher are kept in optimum working condition. The system will shut the crusher down if the ALS shows a malfunction.

### Vibration Sensory Monitoring (VSM)

Designed to protect the crusher in the event of excessive vibration caused by an unbalanced rotor. The VSM will shut down the crusher to prevent possible damage in the case where excessive vibration occurs.

### Measured Feed Regulation (MFR)

A device fitted to ensure a measured feed rate is supplied to the crusher. This is effective in minimising dust, maximising production & reducing downtime. Engine load sensors & level sensors act independently of each other to stop & start the feed belt if a blockage or excessive engine load occurs.



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## TEREX® Canica 2050 GD

### VSI Crusher - Pedestal 90 Degree Bevel Drive

The TEREX® Canica Vertical Shaft Impactor (VSI) is a versatile tertiary crusher that is available with a number of configurations to suit different applications.

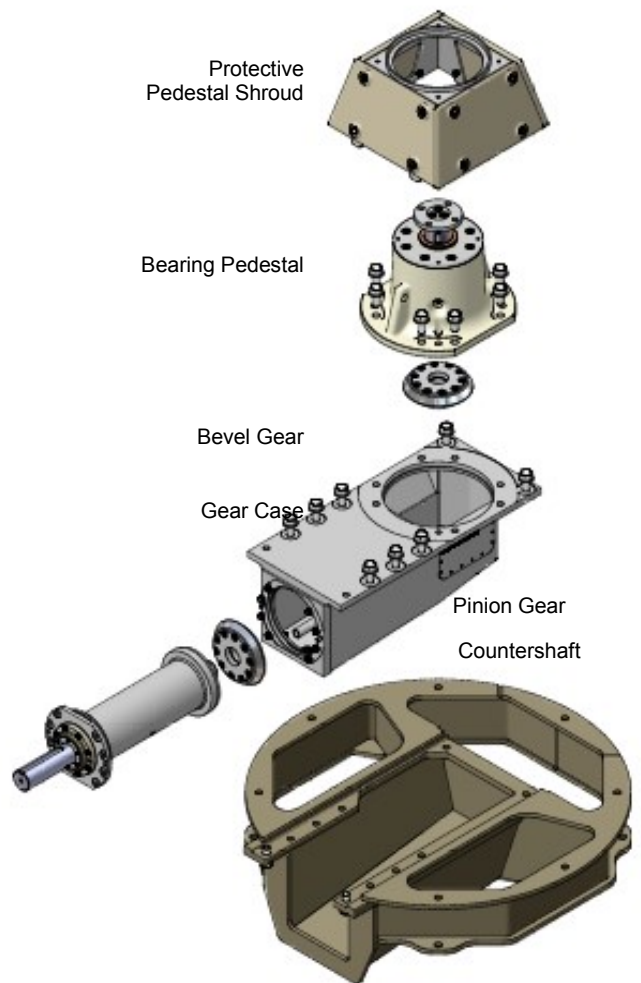
The configurations available are as follows:

**HD (Heavy Duty)** - Indicates that the crusher is for larger feed sizes and/or coarse products. The crusher utilises a table that incorporates six impellers. HD series machines will typically be fitted with a vaulted anvil ring.

**HDS (Heavy Duty Sand)** – Indicates that the crusher is for fine crushing applications. The crusher will utilise an impeller table that incorporates six impellers & a drop in anvil ring. The top size of the feed will be reduced to maximise fines production.

**ROR (Rock on Rock)** – This machine uses an enclosed rotor with a rock shelf. This configuration is typically used on abrasive & shaping applications with a feed size typically less than 50mm.

**ROS (Rock on Steel)** – This machine uses an enclosed rotor & drop in anvils. This configuration is typically used in abrasive applications with a feed size typically less than 75mm, requiring maximum reduction.



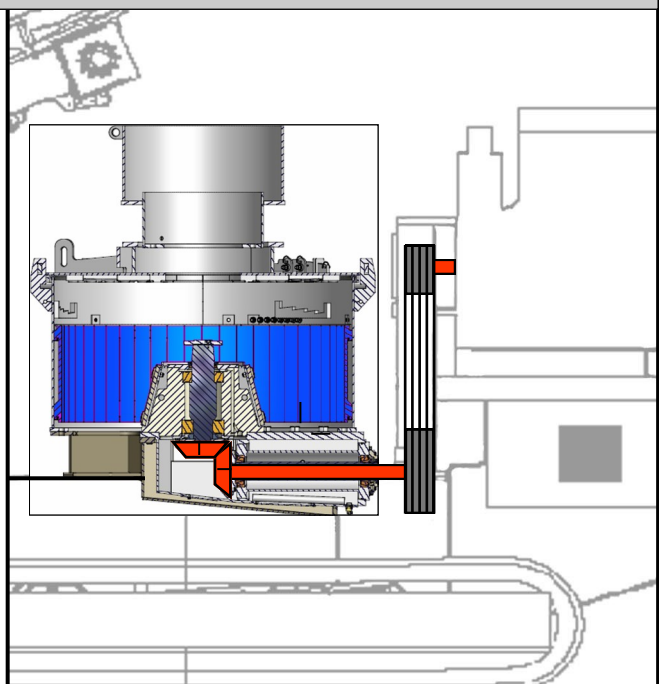
## Powerscreen® Drive Theory

Powerscreen® provides a well proven, reliable wedge belt drive system on the XV350.

The drive from the engine is provided via a HPTO 12 dry clutch. This utilises a Soft Start (SS) mechanism to efficiently & quickly engage drive ensuring minimal frictional losses.

The drive from the HPTO clutch to the crusher is via a pulley wedge belt drive mechanism. This system is adopted due to the excellent fuel efficiency it offers over alternative hydrostatic drive systems. Maintenance of hydraulic systems can be carried out at extended intervals as a result of not powering large motors & heating large volumes of oil.

The drive within the crusher is via a single 90 degree spiral bevel arrangement.



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

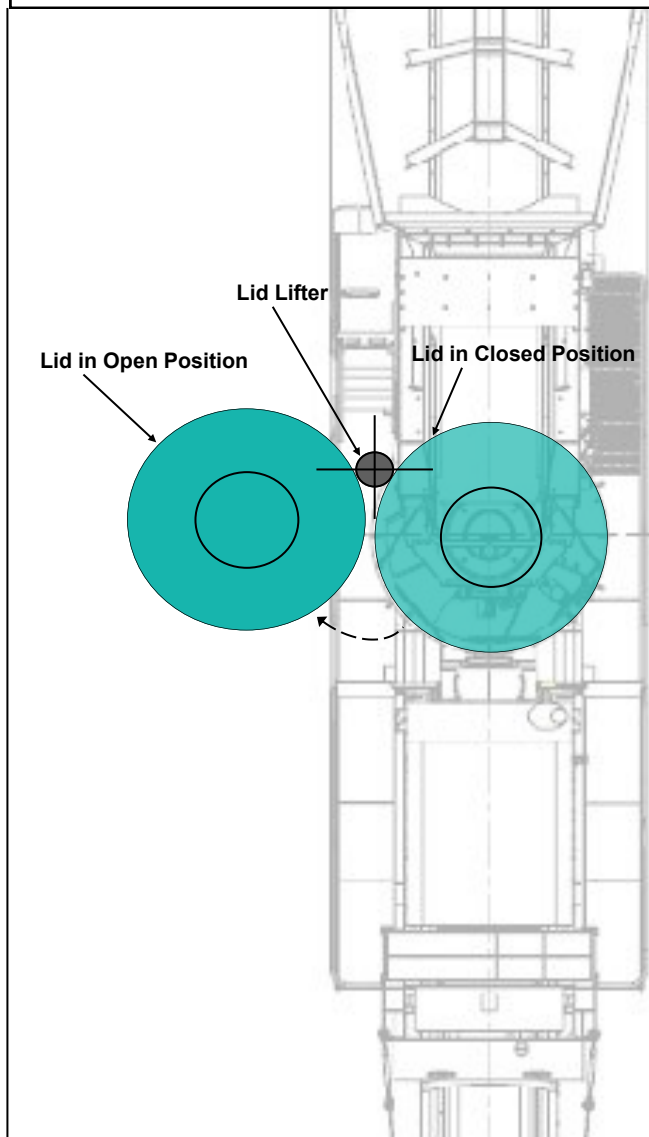
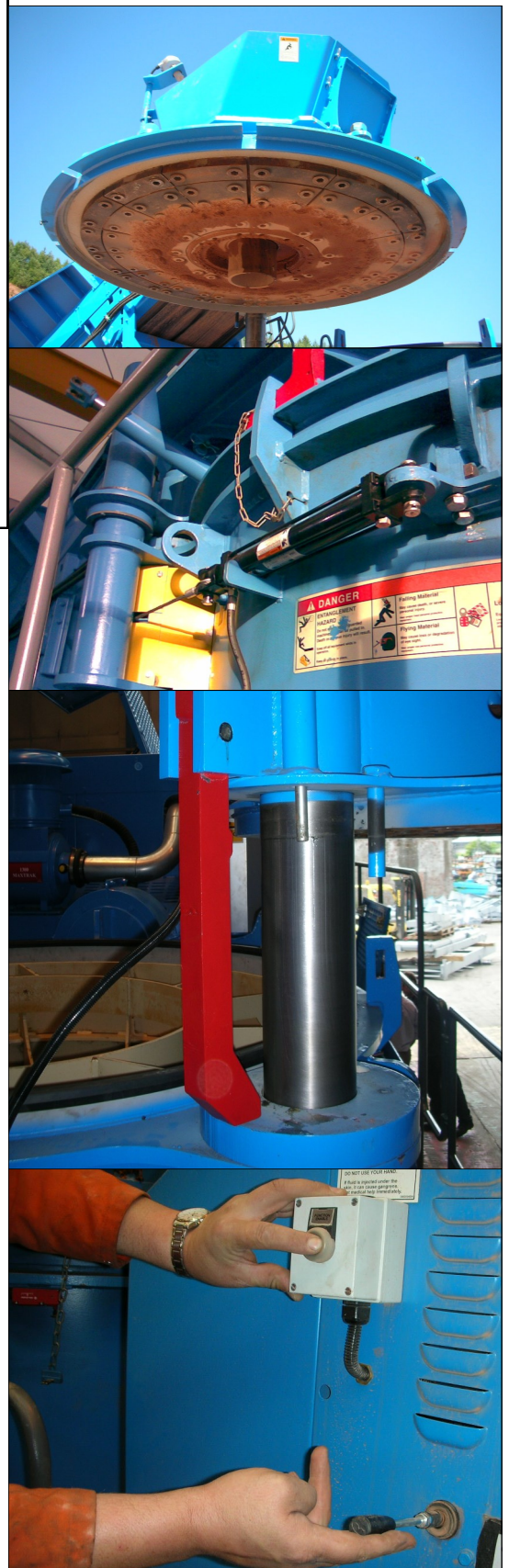
## VSI Crusher - Hydraulic Lid Lifting Mechanism (LLM)

### TEREX® Canica 2050 GD

Two hand operation for safety. The LLM is operated electrically using a safety button release system to ensure that full operator integration is required when undertaking the task.

Hydraulic assisting lid lifter makes short work of configuration 'change outs'. The lid can be swung out to completely expose the crushing chamber.

The manual stop gives an extra level of protection whilst also relieving the hydraulic system of high pressure for long periods of time.



All specifications subject to change without prior notice

## How Does a VSI work? Open Shoe Table & Anvil Setup

There are two configurations with Open Shoe Table:

Open Shoe Table & Vaulted Anvils

Page 7

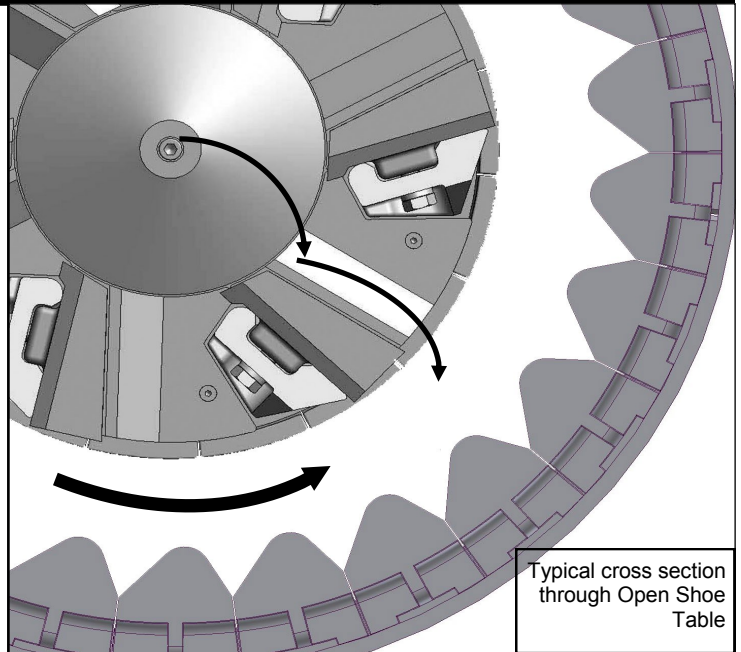
Open Shoe Table & Drop in Anvils

Page 8

### On the Table

The material lands on the distribution plate, high centrifugal force generated by the high table speed acts on the material, forcing it to slide off & be picked up by an impeller shoe.

The material is struck by the shoe where some breakage occurs, while centrifugal force then accelerates the material to the outside of the table.



### Outside the Table

The material is thrown off the table on to the anvil ring.

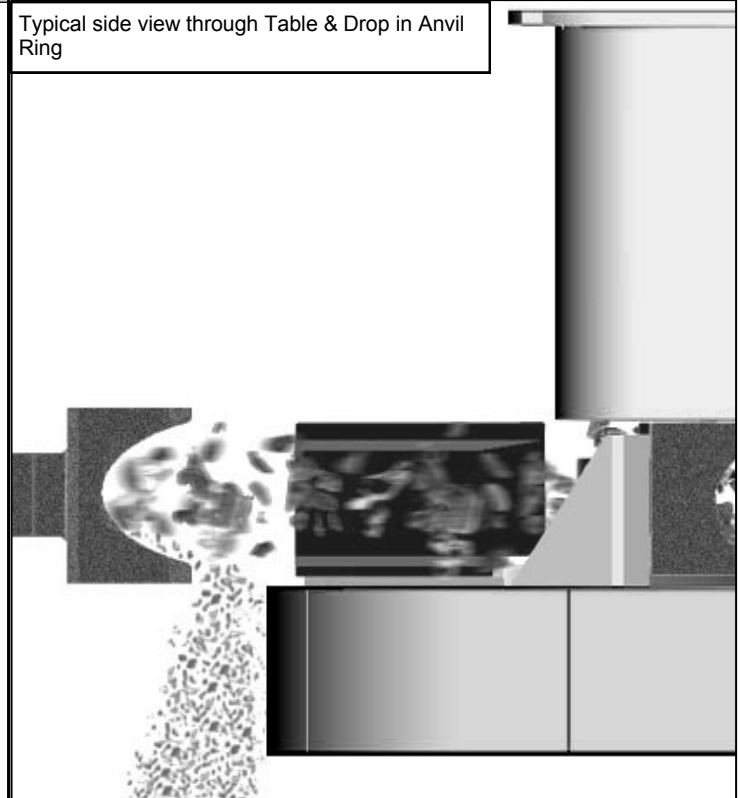
The material strikes the anvil on the impact face & at this high rate of speed, breakage occurs.

There is also a rebounding action that takes place within the crushing chamber.

Some material returns back into the table where it is then struck again by the shoes.

The material falls from the crushing chamber & discharges onto the belt.

Typical side view through Table & Drop in Anvil Ring



## How Does a VSI work? Closed Rotor & Rock Shelf Setup

There are 2 configurations of Closed Rotor & Rock Shelf :

Heavy Duty 4 Port Rotor & Rock Shelf

Page 10

High Speed 5 Port Rotor & Rock Shelf

Page 12

### Inside the Rotor

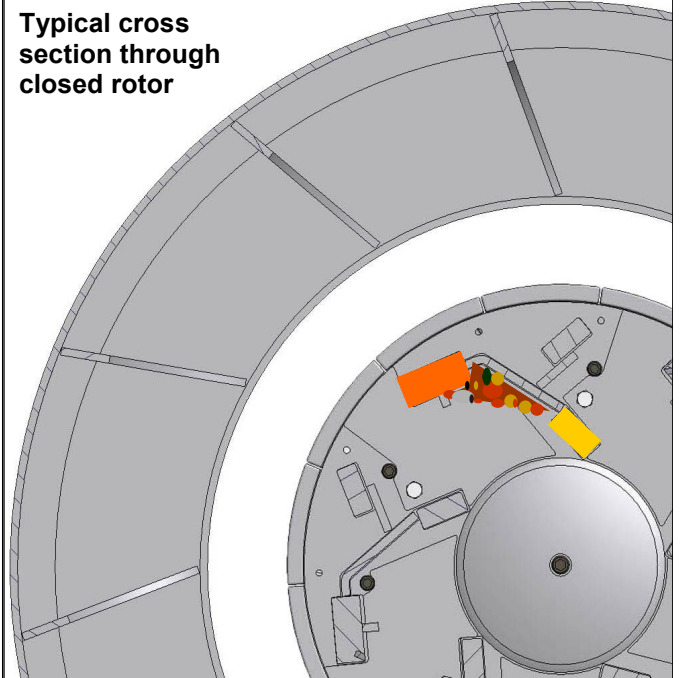
The material hits the distribution plate in the centre of the rotor. Centrifugal force caused by the speed of the rotor accelerates material outwards to the sides of the rotor.

Material builds up inside the rotor forming what is referred to as a 'pack'. As more material enters the rotor, the 'pack' becomes more tightly formed & covers the surface of the inside of the rotor.

With the pack formed, the material that is forced to pass over the pack at high speed & centrifugal force encourages a grinding effect. This grinding effect helps to shape the rock entering the rotor.

The rock that covers the inside of the rotor encourages the breakage of other colliding rocks. This is referred to as 'autogenous' crushing & helps to keep wear costs, & therefore crushing costs low.

Typical cross section through closed rotor



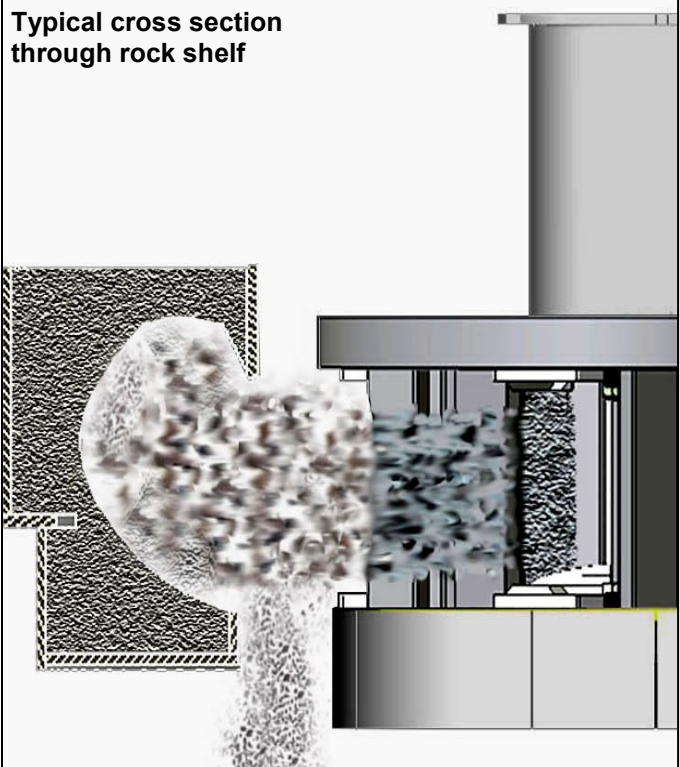
### Outside the Rotor

Once the material has undergone it's first stage of crushing within the confines of the rotor, it is then ejected from the rotor.

There are a further 3 stages of crushing which take place within the chamber before the aggregate is discharged as a product.

1. Material undergoes a stage of crushing upon impacting the rock shelf at high speed.
2. The rock shelf is designed with a ledge to encourage the build up of material. As further material hits the ledge, the rock shelf is eventually covered with rock. This induces another grinding stage as material is forced over the concave ledge at high speed in an autogenous action.
3. As the material exits the rock shelf it is then impacted by rock directly being ejected from the rotor as it passes downwards. This third stage of crushing is also autogenous

Typical cross section through rock shelf



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## VSI Crusher - Configurations

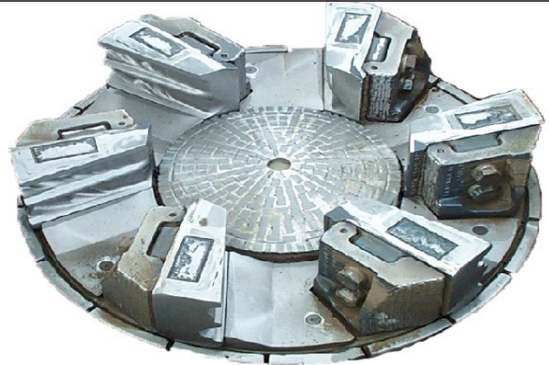
### Open Shoe Table – Vaulted Anvils (Heavy Duty)

This configuration will accept a feed size up to 100mm & produce a variety of products.

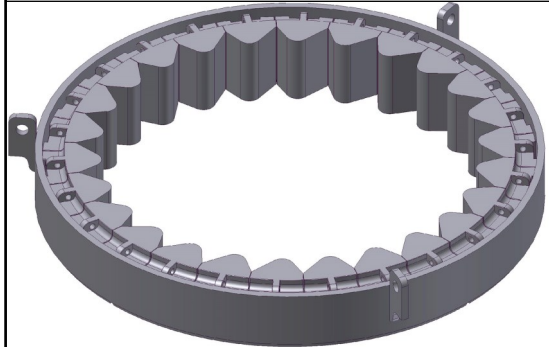
The output will typically be in the range of 300–350tph with high percentages of product yield.

This is ideal for rock types of low to medium abrasiveness. Producing high quality cubical aggregates of a coarser nature.

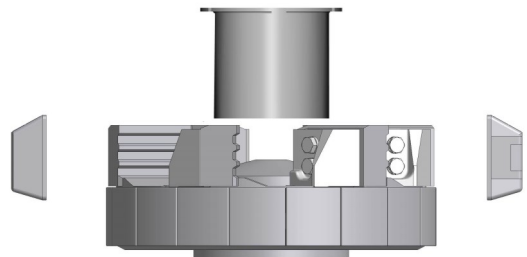
It is also suitable for glass recycling & slag when all 'uncrushables' are removed from the feed material.



Open Shoe Table Part No. CJ08700-440-38

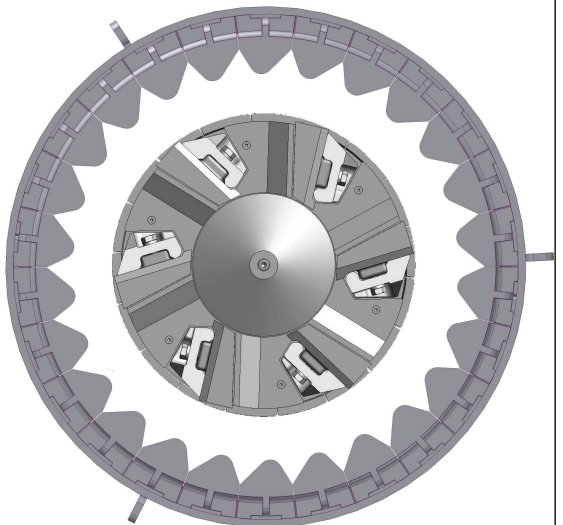


Vaulted Anvils Part No. CJ08700-420-12



| Material             | Feed Size   | Product Size | Throughput | Tip Speed |
|----------------------|-------------|--------------|------------|-----------|
| Hard Strength Rock   | -75 +20mm   | -50mm        | 350mtph    | 41m/s     |
| Hard Strength Rock   | -50 +20mm   | -25mm        | 320mtph    | 46m/s     |
| Hard Strength Rock   | -25 +10mm   | -8mm         | 270mtph    | 56m/s     |
| Medium Strength Rock | -100 +20mm  | -50mm        | 350mtph    | 41m/s     |
| Medium Strength Rock | -50 +20mm   | -15mm        | 230mtph    | 53m/s     |
| Medium Strength Rock | -25 +10mm   | -5mm         | 200mtph    | 61m/s     |
| Slag                 | -45 +16mm   | -25mm        | 200mtph    | 61m/s     |
| Glass                | 75cl Bottle | -5mm         | 200mtph    | 56m/s     |

Typical applications are given in the above table for general guidance only. For specific applications please contact Powerscreen. To achieve these product sizes it will be necessary to run the plant in closed circuit in most cases.



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## VSI Crusher - Configurations

### Open Shoe Table – Drop in Anvils (Heavy Duty Sand)

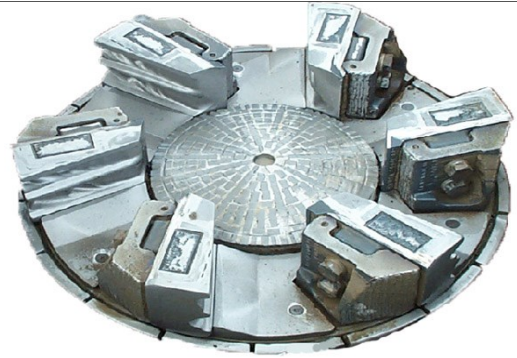
This configuration will accept a feed size up to 63mm, & produce a variety of products.

Where the required reduction ratio is small there are certain applications when the feed size can be increased to 100mm.

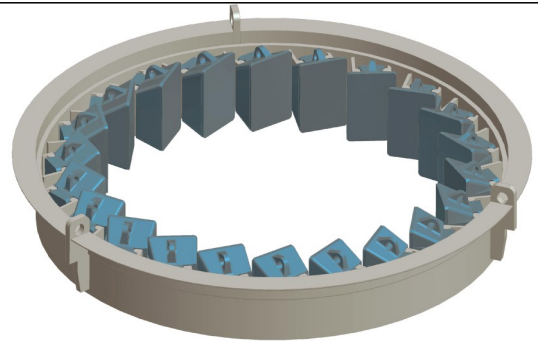
The drop in anvils are easily replaceable & provide a good reduction ratio.

The open table provides the facility for high tonnages & high tip speed such as required for the production of sand. This ensures a high reduction ratio & a potentially lower cost per ton due to low recirculating load.

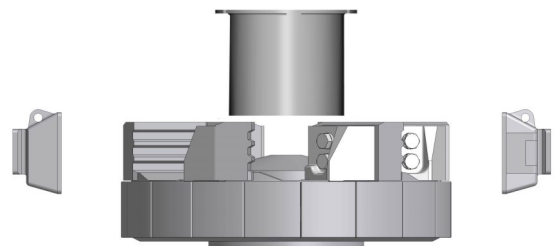
Typically utilised on applications with a low to medium abrasiveness.



Open Shoe Table Part No. CJ08700-440-38

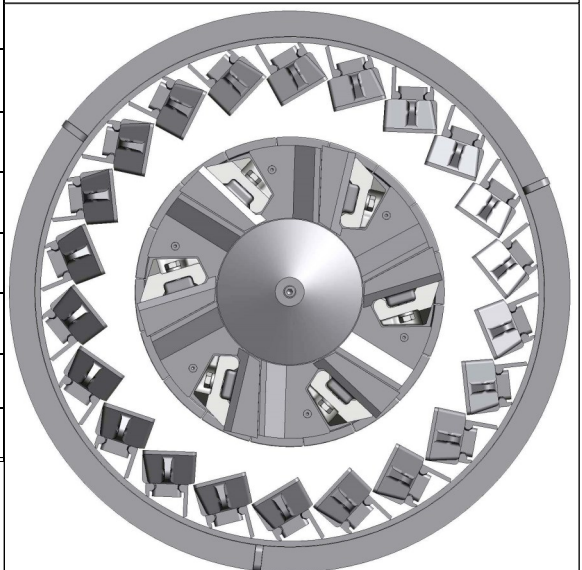


Drop in Anvils Part No. CJ08700-420-11



| Material             | Feed Size   | Product Size | Throughput | Tip Speed |
|----------------------|-------------|--------------|------------|-----------|
| Hard Strength Rock   | -75 +20mm   | -50mm        | 350mtph    | 41m/s     |
| Hard Strength Rock   | -50 +20mm   | -25mm        | 320mtph    | 46m/s     |
| Hard Strength Rock   | -25 +10mm   | -8mm         | 270mtph    | 56m/s     |
| Medium Strength Rock | -100 +20mm  | -50mm        | 350mtph    | 41m/s     |
| Medium Strength Rock | -50 +20mm   | -15mm        | 230mtph    | 53m/s     |
| Medium Strength Rock | -25 +10mm   | -5mm         | 200mtph    | 61m/s     |
| Slag                 | -45 +16mm   | -25mm        | 200mtph    | 61m/s     |
| Glass                | 75cl Bottle | -5mm         | 200mtph    | 56m/s     |

Typical applications are given in the above table for general guidance only. For specific applications please contact Powerscreen. To achieve these product sizes it will be necessary to run the plant in closed circuit in most cases.



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## VSI Crusher - Configurations

### Heavy Duty 4 Port Rotor – Drop in Anvils (Rock on Steel)

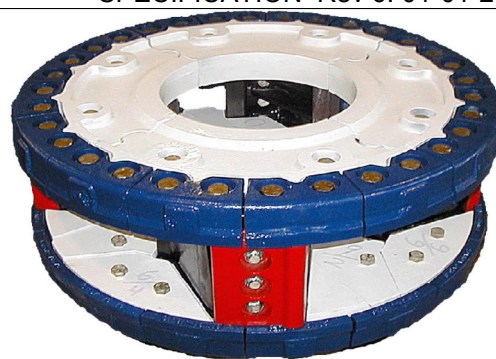
This configuration is best utilised for medium abrasive materials with a feed size less than 75mm.

Ideal for producing aggregates & manufactured sand.

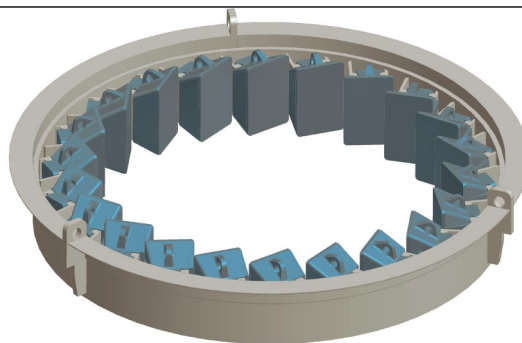
This setup will adopt a semi-autogenous crush through the high speed grinding that takes place within the rotor.

The heavy duty components within the rotor & the pack of material within the rotor assembly ensure long life.

The drop in anvils are easily replaceable & provide a good reduction ratio.



4 Port Rotor Part No. CJ08700-340-35

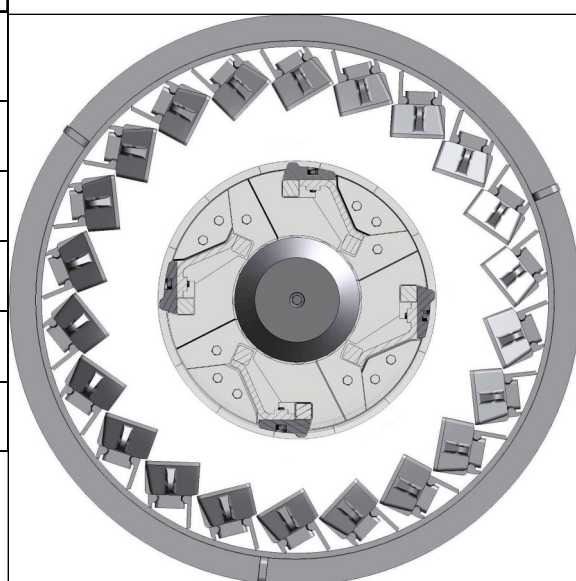


Drop in Anvils Part No. CJ08700-420-11



| Material             | Feed Size | Product Size | Throughput | Tip Speed |
|----------------------|-----------|--------------|------------|-----------|
| Hard Strength Rock   | -75 +50mm | -38mm        | 300mtph    | 41m/s     |
| Hard Strength Rock   | -50 +20mm | -38mm        | 290mtph    | 51m/s     |
| Medium Strength Rock | -75 +50mm | -25mm        | 300mtph    | 46m/s     |
| Medium Strength Rock | -50 +20mm | -25mm        | 290mtph    | 51m/s     |
| Slag                 | -45 +16mm | -25mm        | 230mtph    | 61m/s     |

Typical applications are given in the above table for general guidance only. For specific applications please contact Powerscreen. To achieve these product sizes it will be necessary to run the plant in closed circuit in most cases.



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## VSI Crusher - Configurations

### 5 Port High Speed Rotor - Drop in Anvils (Rock on Steel)

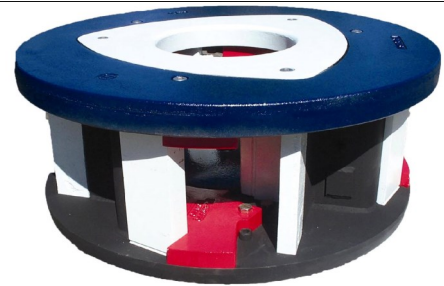
This configuration will accept smaller sized aggregate of minus 19mm of low to medium/high abrasion while minimising wear costs.

It can be used to produce pea gravel & sand.

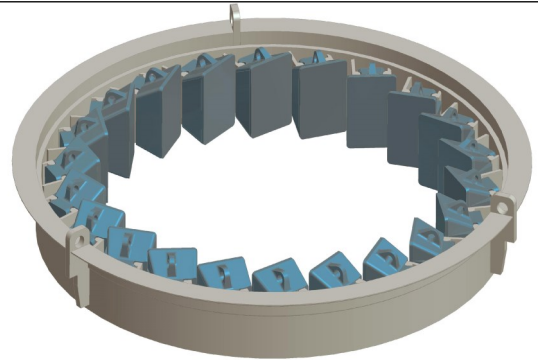
This setup adopts a semi-autogenous crush through the high speed grinding that takes place within the rotor.

The pack within the rotor protects the rotor body & helps minimize wear cost.

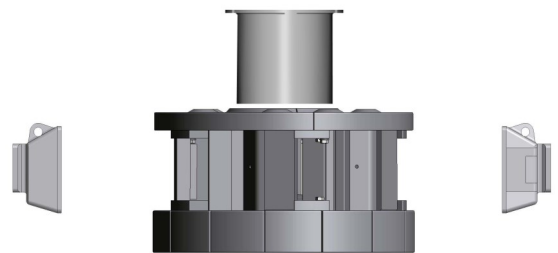
The drop in anvils are easily replaceable & provide a good reduction ratio.



5 Port Rotor Part No. CJ08700-340-32

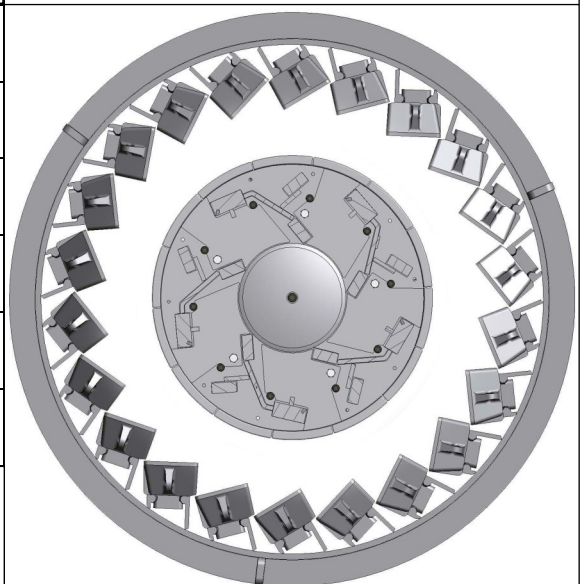


Drop in Anvils Part No. CJ08700-420-11



| Material             | Feed Size | Product Size | Throughput | Tip Speed |
|----------------------|-----------|--------------|------------|-----------|
| Hard Strength Rock   | -19 +12mm | -5mm         | 230mtph    | 61m/s     |
| Hard Strength Rock   | -10 +3mm  | -5mm         | 200mtph    | 67m/s     |
| Medium Strength Rock | -19 +12mm | -5mm         | 230mtph    | 61m/s     |
| Medium Strength Rock | -10 +3mm  | -5mm         | 200mtph    | 67m/s     |
| Slag                 | -16 +10mm | -5mm         | 200mtph    | 67m/s     |

Typical applications are given in the above table for general guidance only. For specific applications please contact Powerscreen. To achieve these product sizes it will be necessary to run the plant in closed circuit in most cases.



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

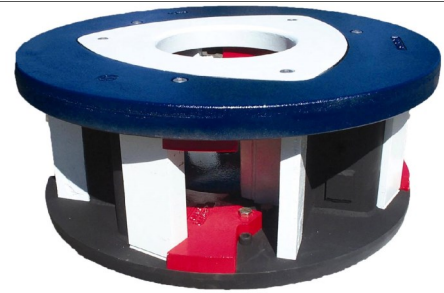
## VSI Crusher - Configurations

### 5 Port High Speed Rotor - Rock Shelf (Rock on Rock)

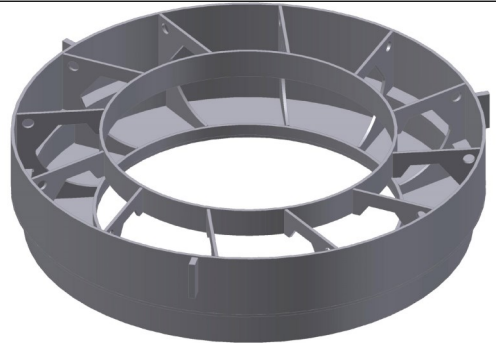
This configuration will accept a medium feed size of minus 50mm & is designed for crushing medium to high abrasion material while minimising wear costs.

The low wear costs are due to the pack coating the rotor which protects the rotor tips & the rock shelf which eliminates the anvils. Very good shaper & producer of high quality manufactured sand & chippings.

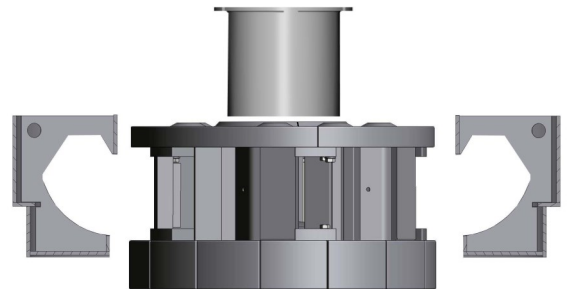
The configuration utilises a high tip speed & it is a completely autogenous crushing action, thus requiring minimal wear part expenditure.



5 Port Rotor Part No. CJ08700-340-25

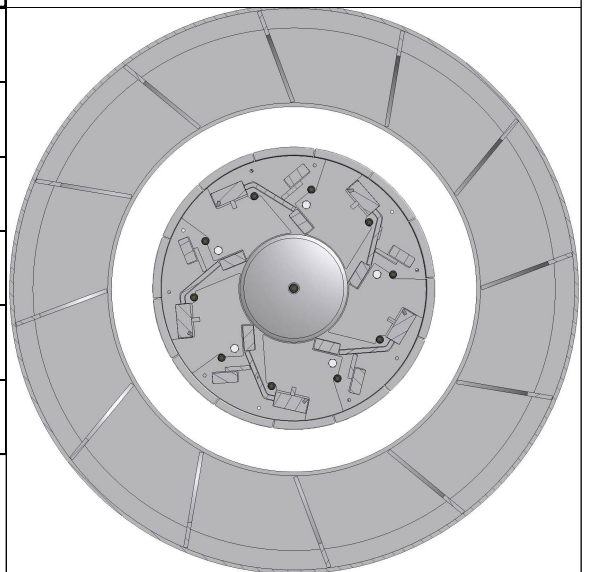


Rock Shelf / Box Part No. CJ08700-390-03



| Material             | Feed Size | Product Size | Throughput | Tip Speed |
|----------------------|-----------|--------------|------------|-----------|
| Hard Strength Rock   | -50 +20mm | -38mm        | 220mtph    | 67m/s     |
| Hard Strength Rock   | -30 +12mm | -25mm        | 240mtph    | 61m/s     |
| Medium Strength Rock | -50 +50mm | -25mm        | 220mtph    | 67m/s     |
| Medium Strength Rock | -30 +12mm | -25mm        | 200mtph    | 72m/s     |
| Slag                 | -45 +16mm | -25mm        | 220mtph    | 67m/s     |

Typical applications are given in the above table for general guidance only. For specific applications please contact Powerscreen. To achieve these product sizes it will be necessary to run the plant in closed circuit in most cases.



All specifications subject to change without prior notice

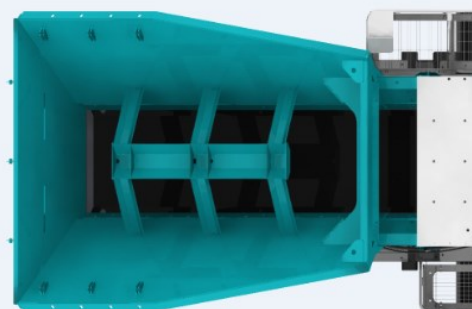


# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

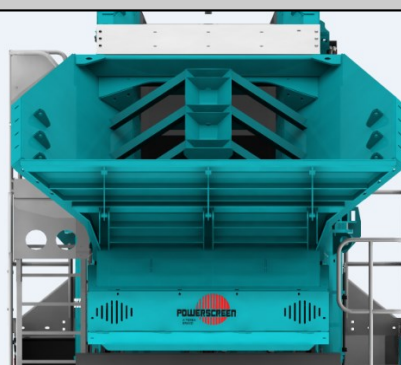
## Hopper

|                  |                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------|
| Hopper type:     | Fixed feed hopper with direct feed rear door                                                                               |
| Hopper length:   | 3.5m (11' 4")                                                                                                              |
| Hopper width:    | 2.8m (9' 2")                                                                                                               |
| Hopper capacity: | Up to 7.0m <sup>3</sup> (9.1 cu. yd.) gross depending on method of feed                                                    |
| Hopper body:     | Fabricated in 10mm thick wear resistant steel plate, with internal crash bars to minimise impact load on the feed conveyor |



## Feed Conveyor

|                  |                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------|
| Conveyor type:   | Shallow troughed belt, variable speed                                                                                |
| Design:          | Raises & lowers hydraulically for transport, operation & crusher maintenance                                         |
| Belt type:       | EP630/4 with 6mm top & 2mm bottom heavy-duty rubber covers, vulcanised joint                                         |
| Belt adjustment: | Screw adjustment at the tail shaft                                                                                   |
| Belt width:      | 1300mm (51")                                                                                                         |
| Feed height:     | 2.9m ( 9' 6")                                                                                                        |
| Drive:           | Hydraulic drive via flange mounted gearbox                                                                           |
| Impact rollers:  | Below feed hopper                                                                                                    |
| Metal detector:  | Suitable for detecting steel & manganese, complete with audible warning device & connected to stop the feed conveyor |
| Barge boards:    | Extend from the feed conveyor to the conveyor head                                                                   |
| Lubrication:     | Oil lubricated head drum gearbox. Grease nipples for lubrication of shaft bearings                                   |
| Level probe:     | Crusher feed ring fitted with level probe designed to regulate material flow into the crusher                        |



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## Product Conveyor

|                   |                                                                                       |
|-------------------|---------------------------------------------------------------------------------------|
| Conveyor type:    | Troughed belt fixed speed conveyor with hydraulic drive                               |
| Belt type:        | EP500/3 with 5mm top & 1.5mm bottom heavy-duty rubber covers, vulcanised joint        |
| Belt width:       | 1000mm (39")                                                                          |
| Discharge height: | 3.40m (11' 2")                                                                        |
| Stockpile volume: | 61m <sup>3</sup> (81 cu. yd.)                                                         |
| Impact rollers:   | Fitted below the crusher outlet                                                       |
| Skirting:         | Fully skirted rubber sealing along the conveyor length                                |
| Drive:            | Direct drive hydraulic motor                                                          |
| Belt covers:      | Canvas type removable dust covers are fitted over the exposed section of the conveyor |
| Belt adjustment:  | Screw adjustment at head drum                                                         |
| Lubrication:      | Grease nipples for lubrication of shaft bearings                                      |
| Speed sensor:     | Designed to stop plant feed when discharge conveyor stops                             |



## Chutes

|                  |                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| Feed box:        | Fabricated in 6mm mild steel plates. Hinge down back plate to lower feed conveyor head section for transportation |
| Product conveyor | Fabricated in 10mm mild steel plate with 20mm wear resistant liners at impact points                              |



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## Power unit

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| <b>Tier 3 / Stage IIIA:</b>  | Caterpillar C-13 ACERT, 328 kW (440hp)                                                         |
| <b>Operating Conditions:</b> | Ambient temp. +30°C to -5°C (86°F to 23°F) at altitudes up to 1000m (3281ft) above sea level.# |
| <b>Operating rpm range:</b>  | 1600 - 2100rpm                                                                                 |
| <b>Plant drive:</b>          | High quality pumps driven via engine PTOs                                                      |
| <b>Fuel tank capacity:</b>   | 1000 L (264 US Gallons)                                                                        |



|                                    |                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Tier 4F / Stage IV :</b>        | <b>Scania DC13</b> , 331 kW (450hp)                                                          |
| <b>Operating Conditions:</b>       | Ambient temp. +30°C to -5°C (104°F to 10°F) altitudes up to 1000m (3281ft) above sea level.# |
| <b>Operating rpm range:</b>        | 1600 - 2100rpm                                                                               |
| <b>Emission control technique:</b> | Selective Catalytic Reduction (SCR)                                                          |
| <b>Reductant Tank Size:</b>        | 60 L (16 US Gal)                                                                             |
| <b>Plant drive:</b>                | High quality pumps driven via engine PTOs                                                    |
| <b>Fuel tank capacity:</b>         | 1000 L (264 US Gal)                                                                          |



|                                     |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Hydraulic tank capacity:</b>     | 300 L (79 US Gal)                                                                          |
| <b>Cone lube oil tank capacity:</b> | 270L (71 US Gal)                                                                           |
| <b>Crusher drive:</b>               | Direct drive via wedge belts                                                               |
| <b>Crusher drive tensioning:</b>    | Manually adjustable screw tensioners located under Powerunit                               |
| <b>Clutch type:</b>                 | Highly efficient, Self-adjusting HPTO 12 dry plate clutch with electro hydraulic operation |

# For applications outside this range please consult with Powerscreen as the plant performance / reliability may be affected.



## Scania Stage IV / Tier 4 Final Technology

Scania industrial engines meet the requirements of Stage IV and Tier 4 Final without the need for a particulate filter. With only EGR and SCR technology, the installation will be unaffected. Scania-developed systems for engine management and emission control ensure an attractive blend of performance and operating economy. The function of the SCR system is based on the injection of a urea solution (AdBlue or DEF, Diesel Exhaust Fluid) into the after-treatment system. With EGR, a small amount of exhaust gases is returned to the intake of the engine, diluting the intake air and reducing the oxygen concentration. This will reduce the combustion temperature and further reduce emissions.



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## Chassis

Heavy Duty I-Section welded construction, provides maximum strength & accessibility



## Crawler Tracks

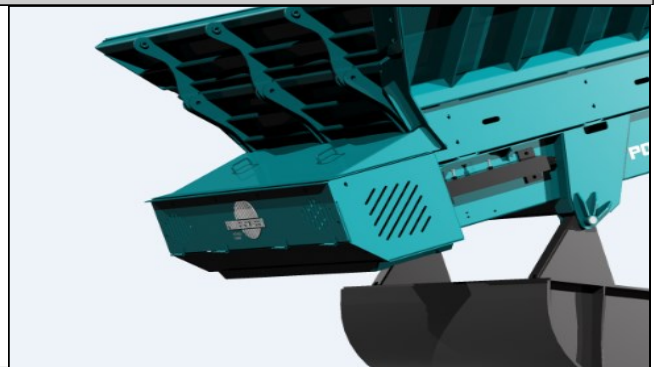
|                       |                                      |
|-----------------------|--------------------------------------|
| Type:                 | Heavy-duty bolt tracks               |
| Longitudinal centres: | 3800mm (12' 6")                      |
| Track pad width:      | 500mm (20")                          |
| Climbing grade:       | 30° maximum                          |
| Speed:                | 0.9kph (0.55mph)                     |
| Drive:                | Hydraulic                            |
| Track tensioning:     | Hydraulic adjuster, grease tensioned |



## Guards

Wire mesh or sheet metal guards are provided for all drives, flywheels, pulleys & couplings

The guards provided are designed & manufactured to CE & ANSI standards



## Platforms

Platforms are provided for inspection & maintenance, allowing access to each side of the engine and crusher & one side of the feed conveyor head section

All platforms are galvanised as standard & are made from steel flooring with steel toe boards, double row handrails & access ladders



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## Plant Controls

Full PLC control system  
 320 x 240 pixel backlit screen  
 Complete pictorial user controls  
 Multi-function backlit menu buttons  
 High definition screen  
 Full system diagnostics  
 A navigation wheel is fitted onto the control system to operate the following items:

- Sequential start up (auto start)
- Engine/crusher speed
- Oil Pump (start/stop)
- Feed conveyor (start/stop/speed)
- Product conveyor (start/stop)
- Crusher level controls



## Dust Suppression Sprays

Sprays bars with atomiser nozzles are mounted over the crusher mouth & the product conveyor feed & discharge points. Piped to an inlet manifold

Type: Clean water atomising nozzles  
 Inlet: Single point  
 Pressure required: 2.8 bar (42 psi)  
 Frost protection: Via system drain valves  
 Pump: Optional extra



## Umbilical Control

An umbilical control unit is also supplied with the plant

This is used to control the tracking function & is also fitted with a stop button for the plant



## Hydraulic Water Pump

A hydraulically powered water pump is available to power the dust suppression system



# Powerscreen® XV350 Options

SPECIFICATION Rev 6. 01-01-2017

## Single Idler Belt Weigher

Compact, rugged modular belt scale with stainless steel load cells with single idler speed wheel & display unit. Complete with integrator & speed sensing wheel fitted to the main product conveyor

Separate read out unit located next to the PLC control panel



## Radio Remote Control

Complete with integrated tracking functions & plant stop button. NB - Only available in certain countries where type approval has been obtained

Remote can also be used to:

- Start/Stop feeder



## Electric Refuelling Pump

A 24 volt refuelling pump, allows fuel to be drawn from a remote source. Fuel transfer rate is 100 L/min.



## Feed Hopper Extension Plates

Designed to increase the hopper feed in width to 4.1m (13' 5") over the rear door. Folds down for road transport. Manually folding for transport.

# Powerscreen® XV350 Options

SPECIFICATION Rev 6. 01-01-2017

## Powerscreen Pulse

Powerscreen Pulse is a system which allows the machine to relay performance and production data via phone networks, or by satellite when there's no cellular signal, to any device with a web browser, such as a PC, tablet or Smartphone.

# POWERSCREEN® PULSE



## Hot/Cold Climate Oils

Cold climate oils - (Recommended for ambient temperatures between -20 to +30oC)

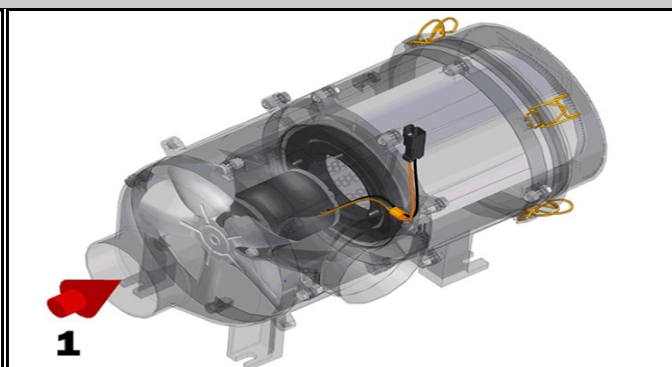
Hot climate oils - (Recommended for ambient temperatures between +15 to +50oC)



## Control Panel Positive Pressurisation

An additional unit designed to reduce dust particles within the Control Panel.

A continuous flow of clean air is passed through the cabinet whilst the unit simultaneously filters out any particulate laden air.



## Optional Extras

- Feed hopper extension plates
- Product conveyor belt weigher
- Product conveyor dust hood
- Electric refuelling pump
- Radio remote control
- Powerscreen Pulse
- Hot/Cold Climate Oils
- Control Panel Positive Pressurisation

## Crusher Chamber Configuration Options

- High speed five port rotor & Rock shelf
- High speed five port rotor & Drop in anvils
- Heavy duty four port rotor & Rock shelf
- Heavy duty four port rotor & Drop in anvils
- Open shoe table & Vaulted Anvils
- Open shoe table & Drop in Anvils

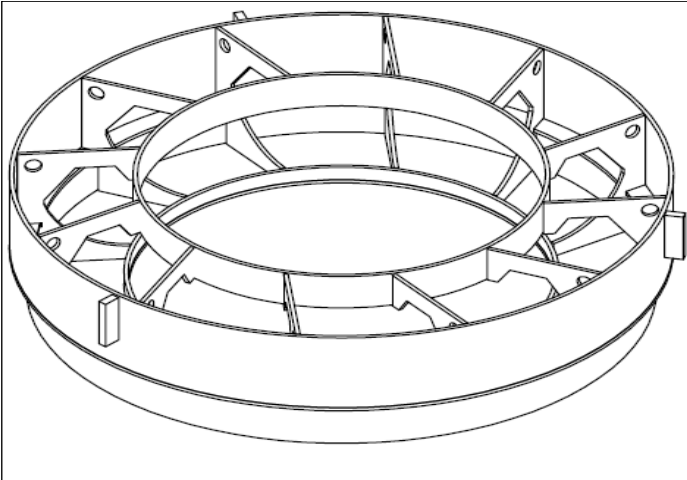
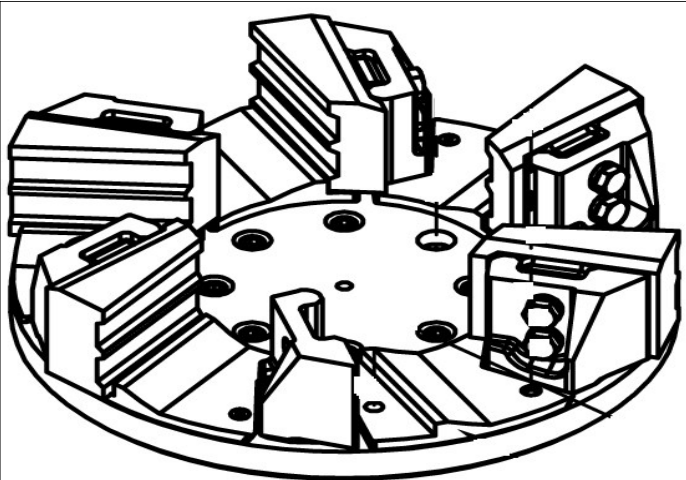
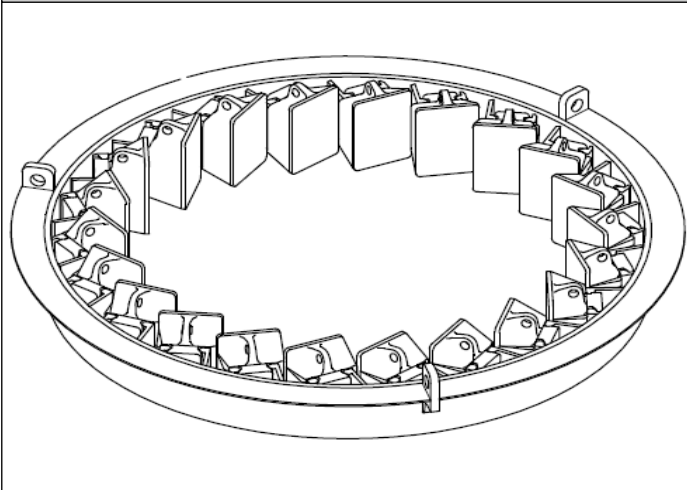
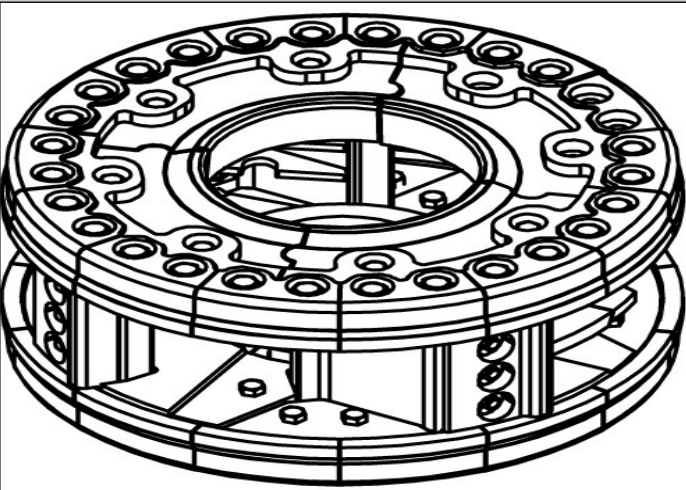
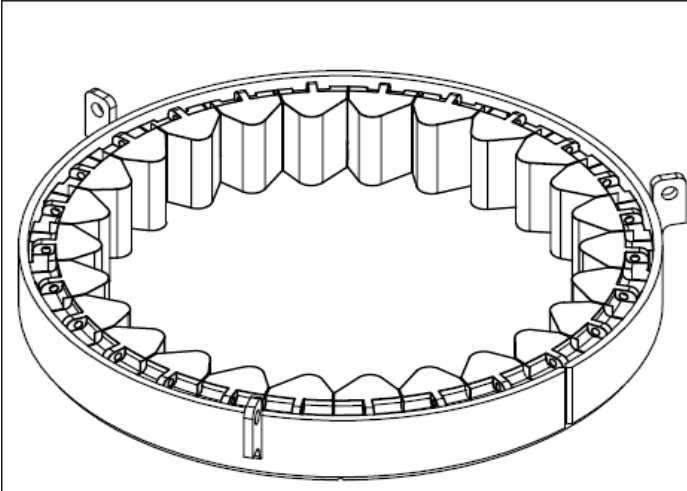
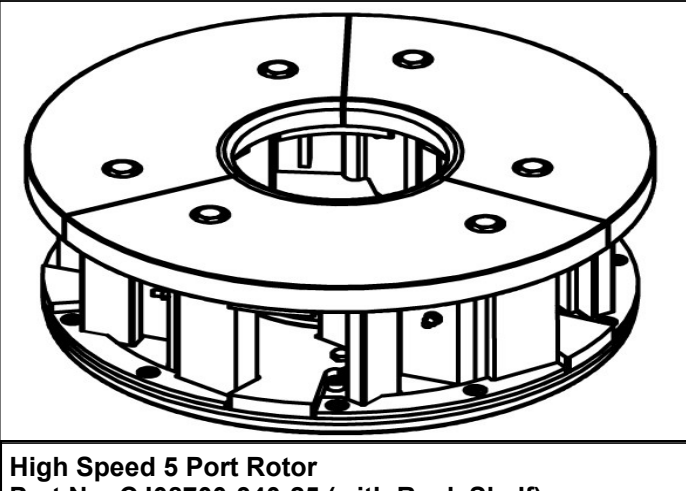
All specifications subject to change without prior notice



# Powerscreen® XV350 Options

SPECIFICATION Rev 6. 01-01-2017

## Crusher Chamber Options

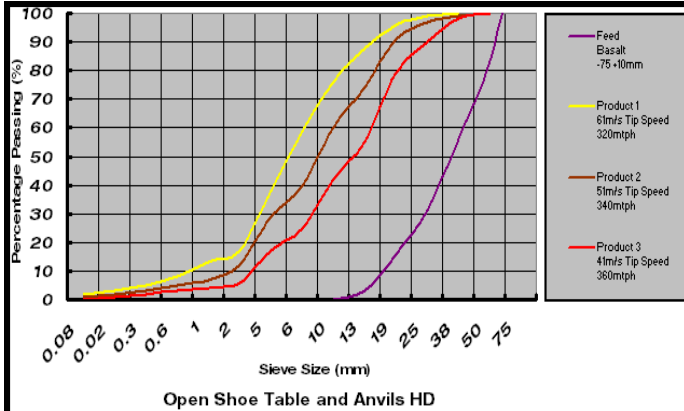
|                                                                                     |                                                                                                                                |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|    |                                              |
| <p>Rock Shelf: Part No. CJ08700-390-03</p>                                          | <p>Open Shoe Table: Part No. CJ08700-440-38</p>                                                                                |
|   |                                             |
| <p>Drop in Anvil Ring: Part No. CJ08700-420-11</p>                                  | <p>Heavy Duty 4 Port Rotor: Part No. CJ08700-340-35</p>                                                                        |
|  |                                            |
| <p>Vaulted Anvil Ring: Part No. CJ08700-420-12</p>                                  | <p>High Speed 5 Port Rotor<br/>Part No. CJ08700-340-25 (with Rock Shelf)<br/>Part No. CJ08700-340-32 (with Drop in Anvils)</p> |

All specifications subject to change without prior notice

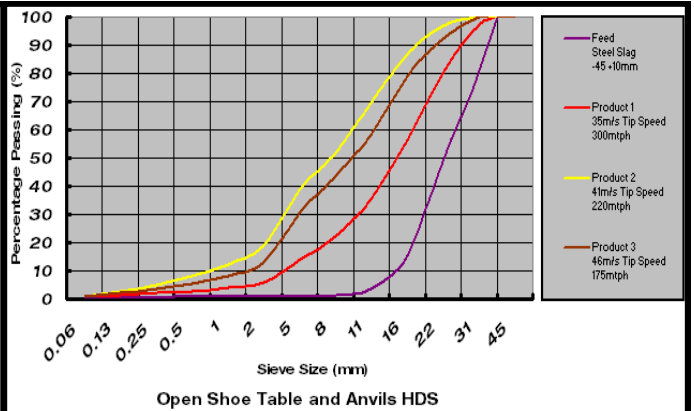


## Crusher Gradations - Open Shoe Table & Anvils

Material: Basalt  
Feed Size: -75 +10mm

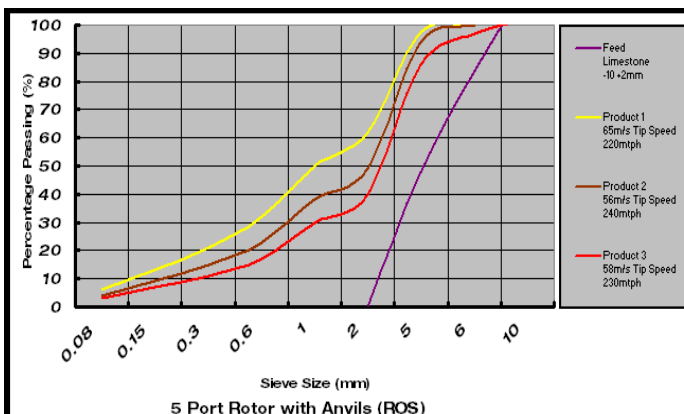


Material: Stainless Steel Slag  
Feed Size: -45 +10mm

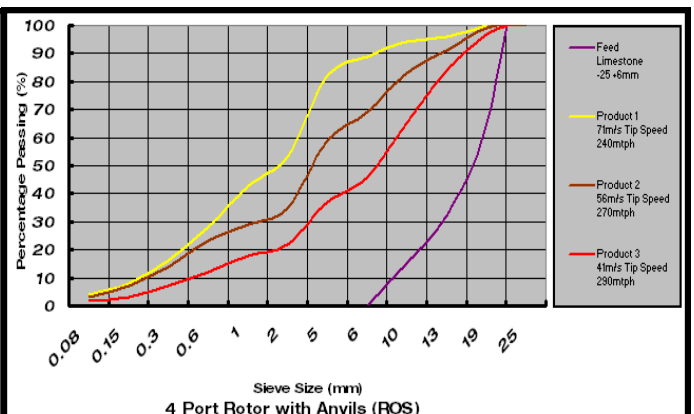


## Crusher Gradations - Rotor & Anvils

Material: Medium Strength Limestone  
Feed Size: -10 +2mm

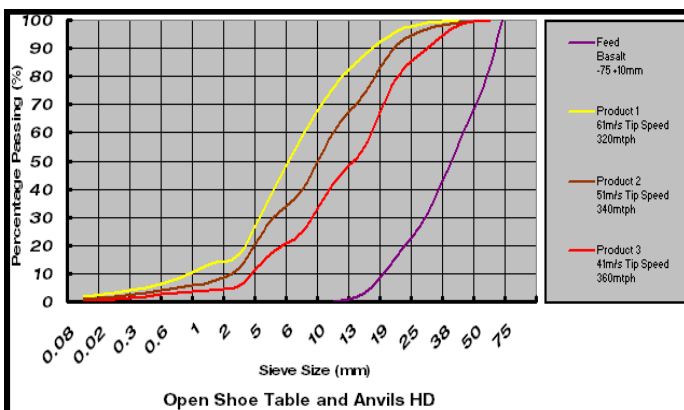


Material: Medium Strength Limestone  
Feed Size: -25 +6mm

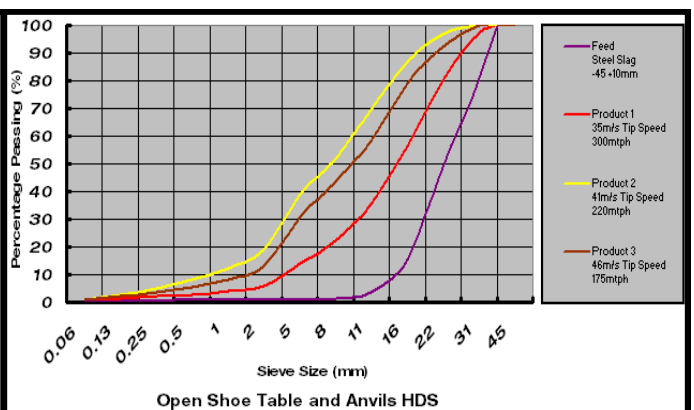


## Crusher Gradations - Open Shoe

Material: Basalt  
Feed Size: -75 +10mm



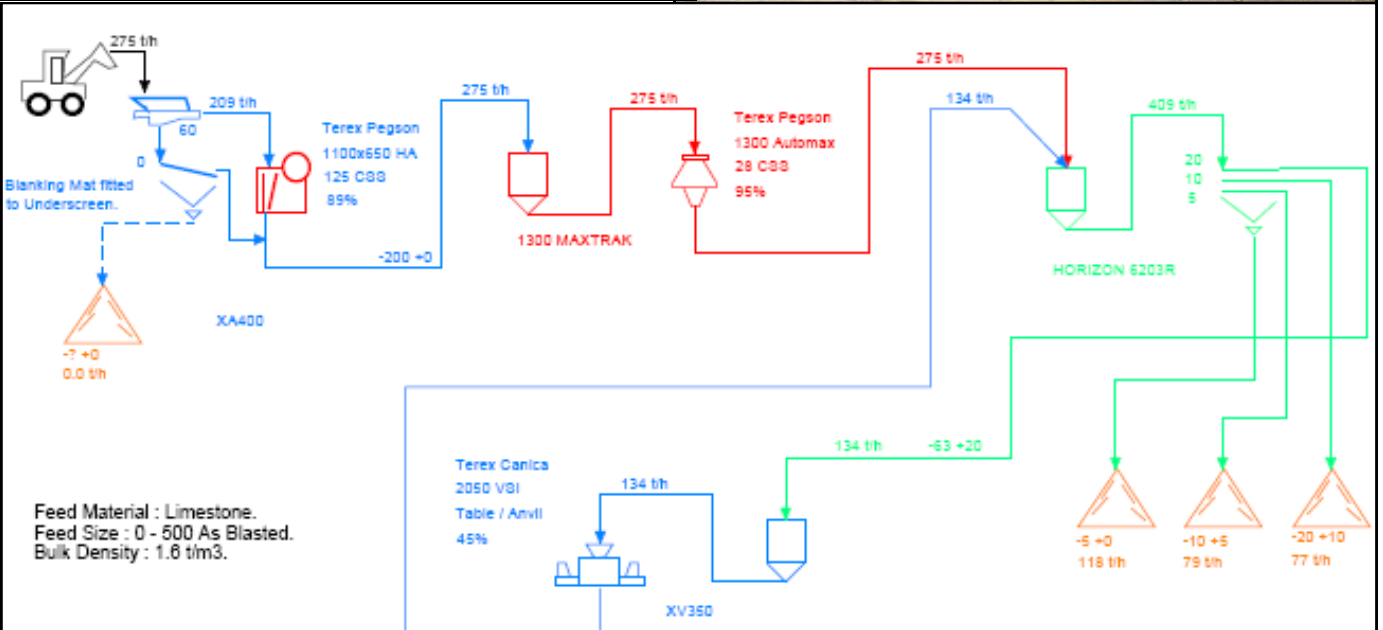
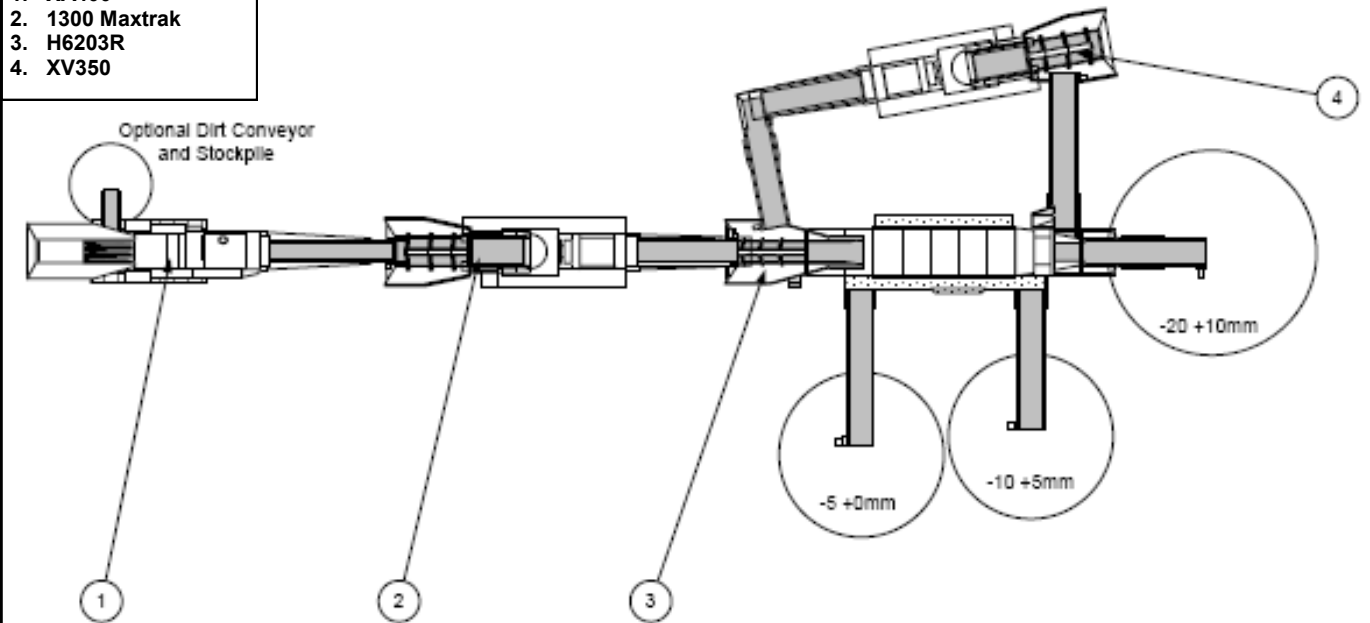
Material: Stainless Steel Slag  
Feed Size: -45 +10mm



# Powerscreen® XV350

## Case Studies

1. XA400
2. 1300 Maxtrak
3. H6203R
4. XV350



HILLHEAD 2007, BUXTON Configuration: Open Table- Drop in Anvils

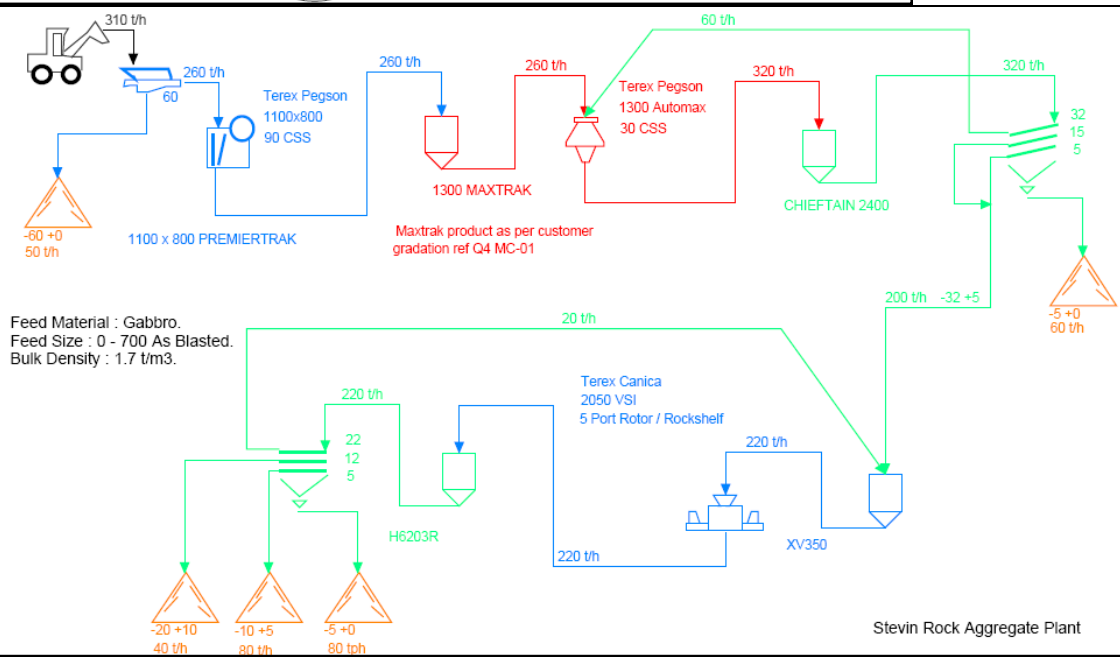
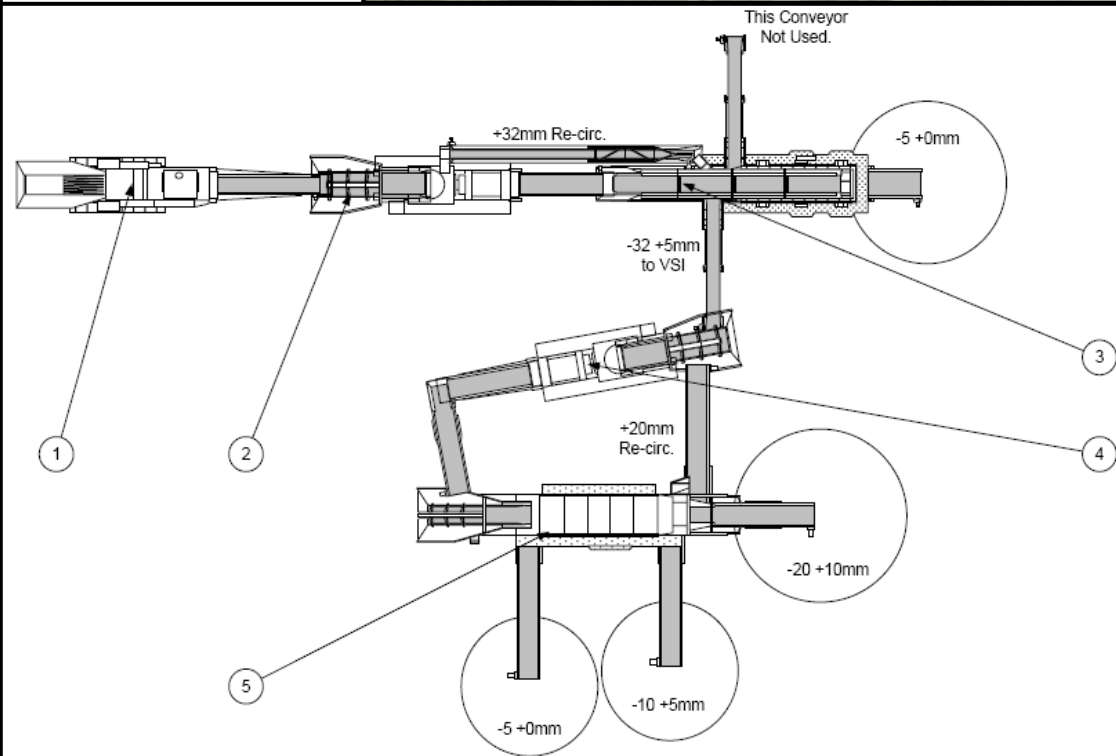
All specifications subject to change without prior notice



# Powerscreen® XV350

## Case Studies

1. 1100 x 800 Premiertrak
2. 1300 Maxtrak
3. 2400 Chieftain
4. XV350
5. H6203R



## STEVIN

All specifications subject to change without prior notice



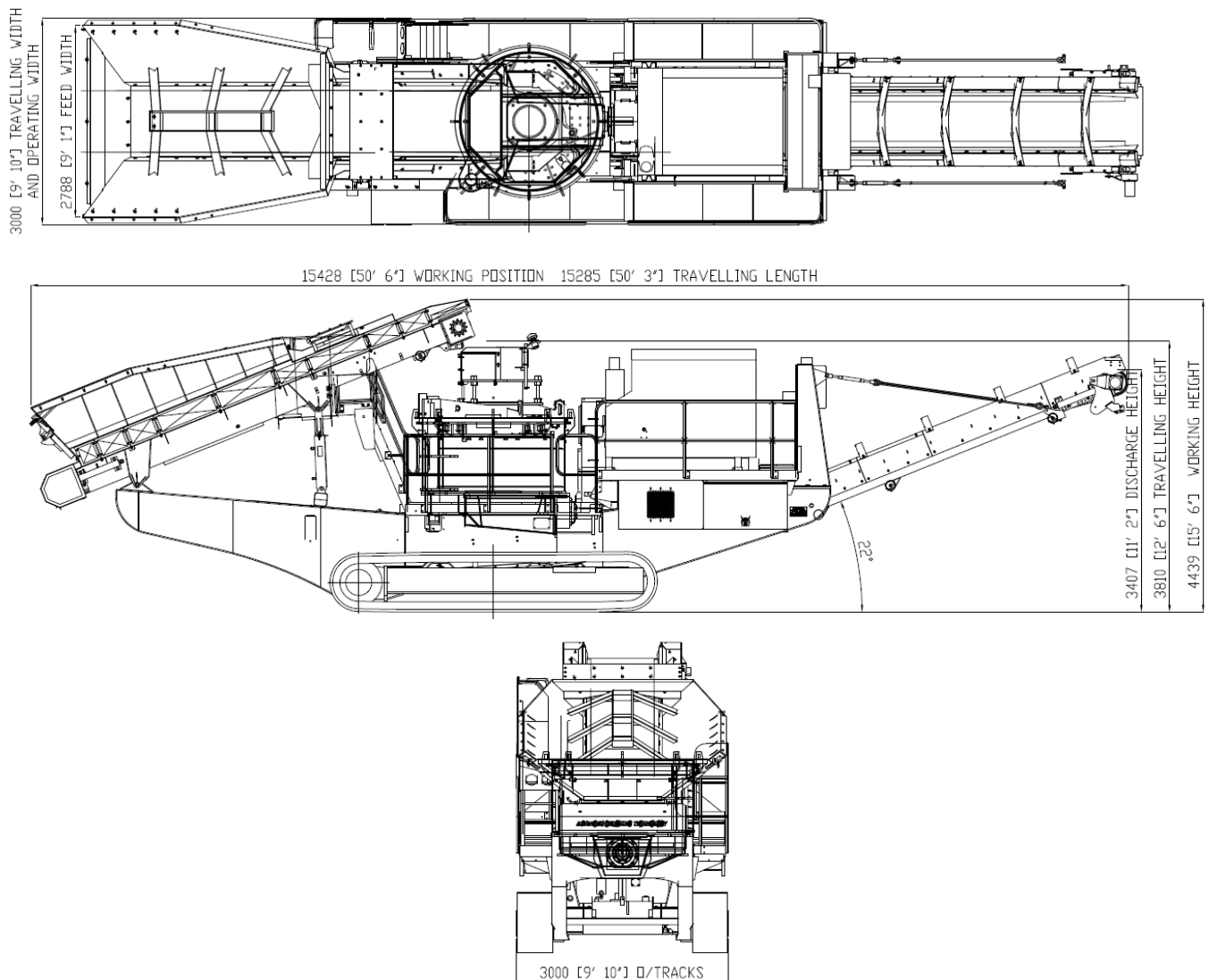
# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## Approximate Plant Weights & Dimensions

|                   |        |          |
|-------------------|--------|----------|
| Transport length: | 15.45m | (50' 8") |
| Transport height: | 3.85m  | (12' 8") |
| Transport width:  | 3.0m   | (9' 10") |
| Working length:   | 15.6m  | (51' 2") |
| Working height:   | 4.6m   | (15' 1") |
| Working width:    | 3.85m  | (12' 8") |

## XV350 Transport & Working Dimensions



All specifications subject to change without prior notice



# Powerscreen® XV350

SPECIFICATION Rev 6. 01-01-2017

## **Powerscreen equipment complies with CE requirements.**

Please consult Powerscreen if you have any other specific requirements in respect of guarding, noise or vibration levels, dust emissions, or any other factors relevant to health and safety measures or environmental protection needs. On receipt of specific requests, we will endeavour to ascertain the need for additional equipment and, if appropriate, quote extra to contract prices.

All reasonable steps have been taken to ensure the accuracy of this publication, however due to a policy of continual product development we reserve the right to change specifications without notice.

It is the importers' responsibility to check that all equipment supplied complies with local legislation regulatory requirements.

Plant performance figures given in this brochure are for illustration purposes only and will vary depending upon various factors, including feed material gradings and characteristics. Information relating to capacity or performance contained within this publication is not intended to be, nor will be, legally binding.

Terex GB Ltd.  
200 Coalisland Road  
Dungannon  
Co. Tyrone  
Northern Ireland  
BT71 4DR

Tel: +44(0) 28 8774 0701  
Fax: +44(0) 28 8774 6569

E-Mail: [sales@powerscreen.com](mailto:sales@powerscreen.com)  
Web: [www.powerscreen.com](http://www.powerscreen.com)

Terex is a registered trademark of Terex Corporation in the United States of America and many other countries.  
Powerscreen is a registered trademark of Terex GB Ltd in the United States of America and many other countries.

Copyright Terex Corporation 2017

All specifications subject to change without prior notice

