EVOQUIP
A TEREX BRAND

# BISON 160 HYBRID

## JAW CRUSHER




TECHNICAL SPECIFICATION

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**GET STARTED**

# OVERVIEW

**1**
### HOPPER
- 2.0m³ (2.6 Cubic yards) hopper capacity

**2**
### PRODUCT CONVEYOR
- 700mm (28") wide belt 2.4m (7' 10") discharge height
- Impact bars at jaw discharge point

**3**
### BY-PASS CONVEYOR OPTION
- 400mm (16") wide belt
- 1600mm (63") discharge height
- LHS & RHS discharge side

**(Not shown)**

**4**
### FEEDER
- Integrated Pre-Screen for removal of fines
- Feeder auto re-start based on load or jaw level

**5**
### ENGINE OPTIONS
- CAT C4.4 70kW Constant Speed LRC c/w 88kVA Generator
- CAT C4.4 70kW Constant Speed T3a c/w 88kVA Generator
- CAT C4.4 70kW Constant Speed T4 c/w 88kVA Generator
- CAT C3.6 70kW Constant Speed eu5 c/w 88kVA Generator

**6**
### JAW CHAMBER
- High capacity single toggle jaw
- 700mm x 500mm (28" x 20") Jaw inlet
- Hydraulic Assist
- CSS Range: 30mm (1.2") to 70mm (2.75")

**7**
### CONTROL SYSTEM
- Simple intuitive operator control panel




UP TO **100** TONNES PER HOUR (110 US TPH)

# HOPPER/FEEDER

Integrated Pre-Screen for removal of fines

Bolt in wear plate grizzly cassette

Angled end to turn material into crusher

Area: 2700mm (8' 10") x 660mm(2' 2")

Twin out of balance motor drive

Feeder auto re-start based on load or jaw level

Feeder can be started and stopped using feeder remote control

Fixed hopper bin

Hopper Capacity (Heaped): 2.0m3 (2.6 Cubic yards)

Hopper Width: 1.8m (5' 11")

Hopper Length: 2.8m (9' 2")

Loading Height: 2.6m (8' 6")

Bolt-in Hardox Liners on wear areas





# CRUSHER

High capacity single toggle jaw crusher

700mm x 500mm (28" x 20") Jaw Inlet

CSS Range: 30mm (1.2") to 70mm (2.75")

Up to CSS 110mm (4.3") with short toggle

240MPa Compressive Strength. (For applications outside this range please contact EvoQuip)

Feed size: 550mm (22") x 400mm (16") x 400mm (16")

Crusher weight 6,300kg (13, 889 lbs)

12 tooth / 11 tooth configuration

Electric Motor Drive 45kW

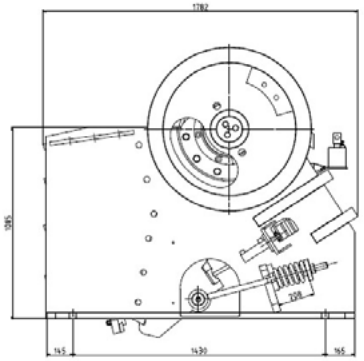
Vee belt and pulley drive

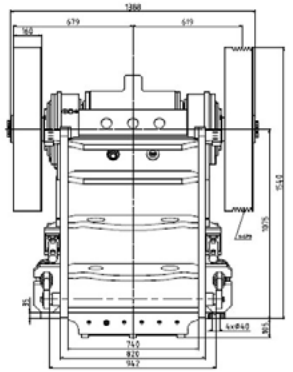
Reverse drive function

Re-bar deflector on swing jaw (option)

Hydraulic handpump and shim adjust







# CRUSHER

## INLET CHUTE

Inlet chute lined with wear plate bolt-on tiles

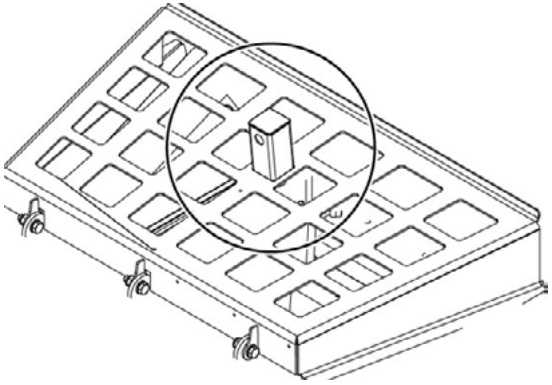
Top cover plate hinged and pinned

## CHAMBER

**Jaw level sensor**

- Located above the crusher inlet. This automatically stops the feeder should the material level build up inside the crusher chamber. The crusher will restart when the material has passed through the crushing chamber.





# PRODUCT CONVEYOR

**Belt width**: 700mm (28")

**Belt specification**: EP400/3ply 4+2mm

**Discharge height**: 2.4m (7' 10")

Impact bars at jaw discharge point

400mm (16") clearance from jaw to conveyor

Side skirting to over band magnet area

High grade belt scraper

Folds for transport with 12v electric hydraulic power pack

Belt speed 1.0m/sec

The conveyor can be raised & lowered for access andfolded for transport, using the umbilical Conveyor Remote

Twin Drive on conveyor head drum.



# POWER UNIT

**Engine Options:**

Gen set incorporating Leroy alternator (88KVA standby)

CAT C4.4 70kW Constant Speed LRC c/w 88kVA Generator

CAT C4.4 70kW Constant Speed T3a c/w 88kVA Generator

CAT C4.4 70kW Constant Speed T4 c/w 88kVA Generator

CAT C3.6 70kW Constant Speed eu5 c/w 88kVA Generator







# POWER UNIT

Aluzinc enclosure, direct bolted to chassis

Clear access to controls and maintenance from one side

Inbuilt 440 litre fuel tank in base

Ground level service access for one side

Trailing lead socket also suitable for mains connection

Excellent service access



# ACCESSIBILITY

Maintenance steps and platform both sides

Bolt on and hinged access doors both sides



# CONTROLS

Machine start-up is by a series of push buttons located on this electrical control panel.

The jaw crusher is driven by a 45kW electric motor through pulleys and V belts. This allows for reverse crushing.

The 45kW motor is fitted with an "over current relay". This stops the feed should the crusher process very tough material causing high current draw on the motor. When the electrical current reduces the feeder will restart.



# OPTIONS

**VGF**

- Optional Screening media (contact factory)
- Variable speed control

**By-Pass Conveyor**

- 400mm wide c/w 750W electric drive

**Jaw Crusher**

- Under Crusher Hydraulic Deflector Plate

**Over Band Magnet**

**Main Conveyor**

- Belt weigher

**Dust Suppression**

**ANSI / CHEM / DIMS Chassis**



OPTIONS

# BY-PASS CONVEYOR

**Belt width**: 400mm (16")

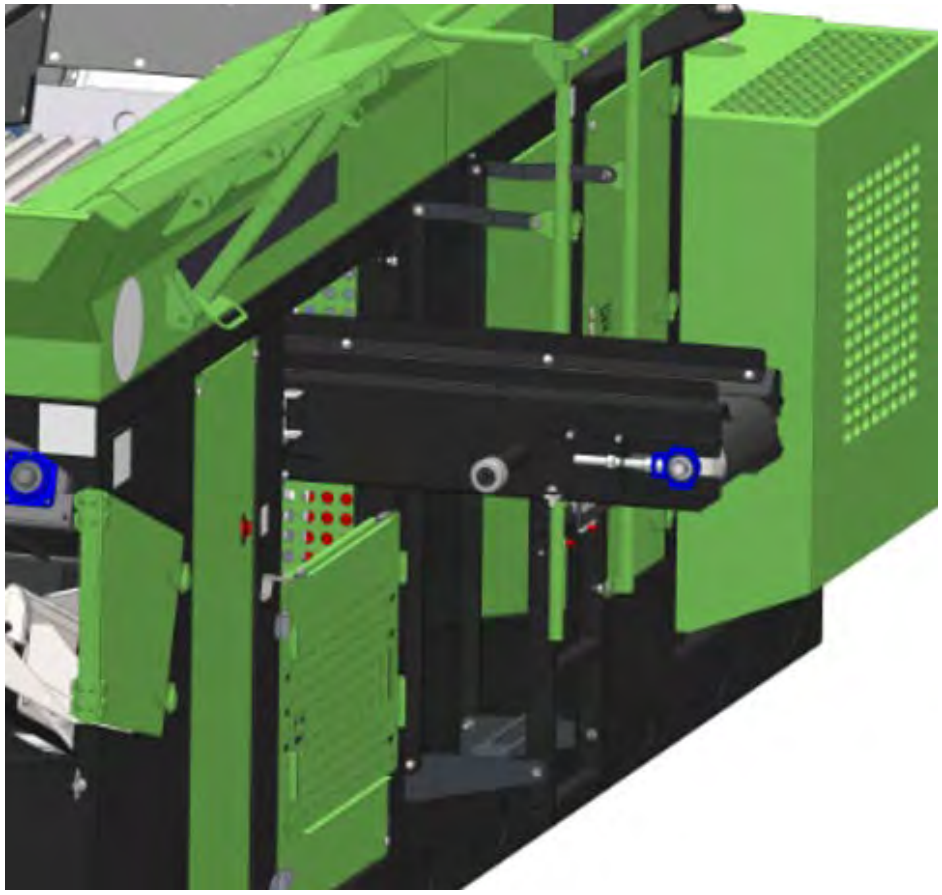
**Belt specification**: EP250 2ply 3+1.5mm

**Discharge height**: 1600mm (63")

**Mounting**: Slides from chassis on rails (LHS/RHS/Transport)

**Discharge side**: LHS & RHS at switch

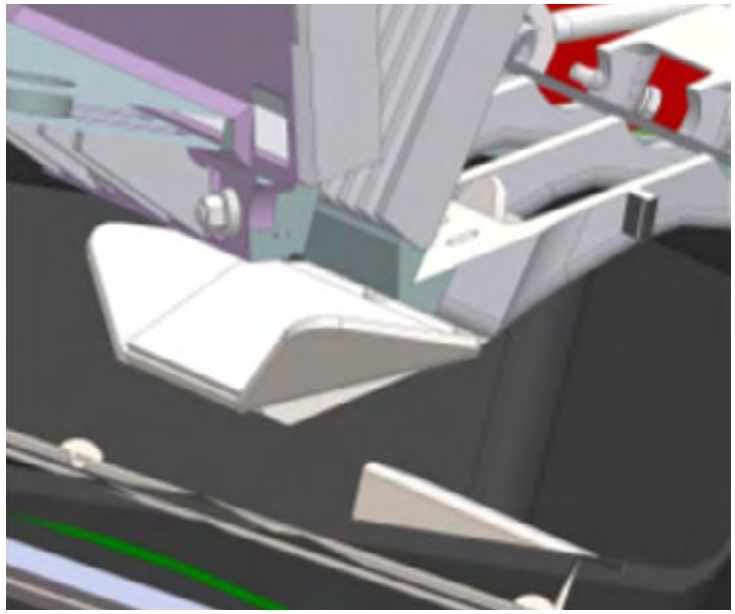
**By-pass to MC**: Reverse belt direction at switch



OPTIONS

# CHAMBER

**Under Crusher Deflector Plate**
(on moving jaw)



# OPTIONS

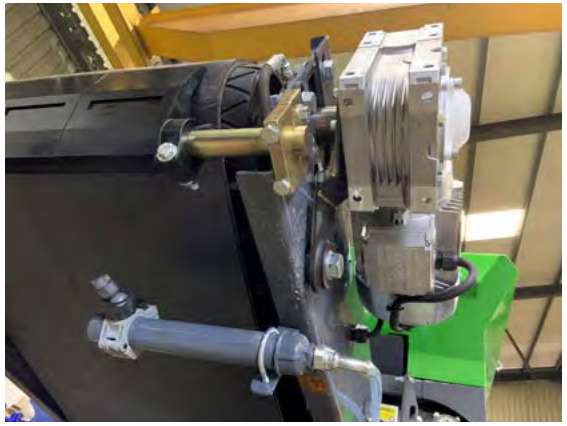
## MAGNET

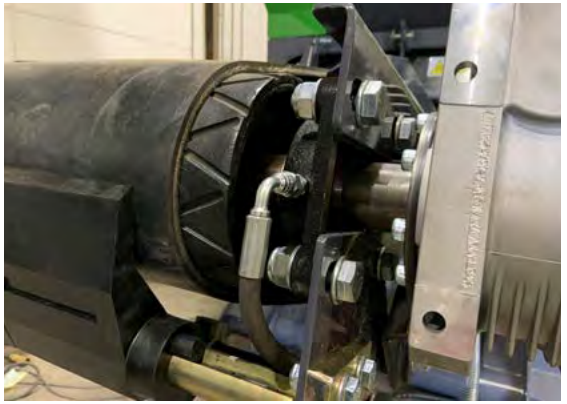
- Overband magnet option
- 1.5kW electric
- 750mm (30") Belt width
- Twin stainless steel chute
- RHS or LHS Discharge with flick of a switch



OPTIONS

# OTHER OPTIONS









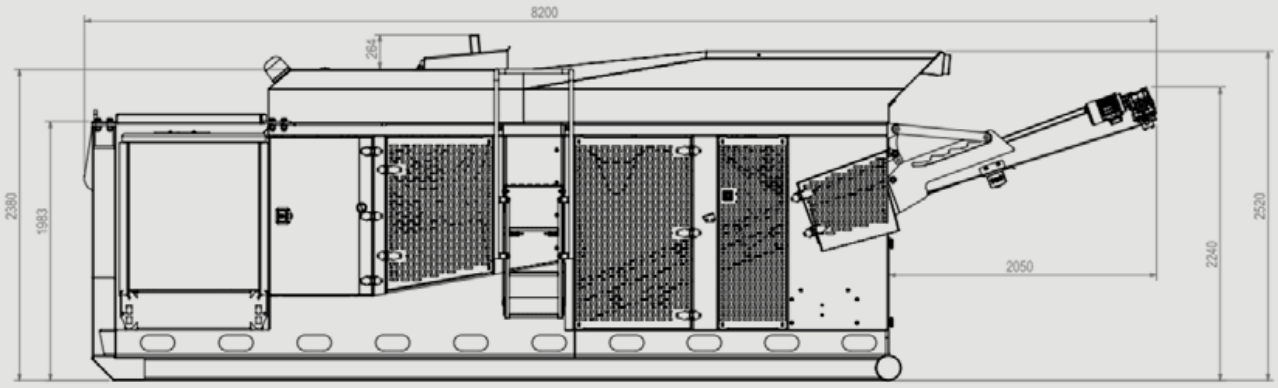


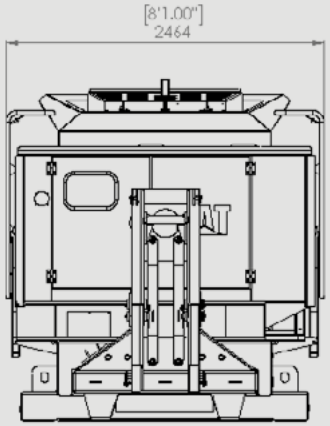


WEIGHTS & DIMENSIONS

# WORKING DIMENSIONS - BISON 160

**Length**: 8.4m (27' 7") **Width**: 2.5m (8' 2") **Height**: 2.6m (8' 6") **Weight**: 13,500kgs (29,760lbs)

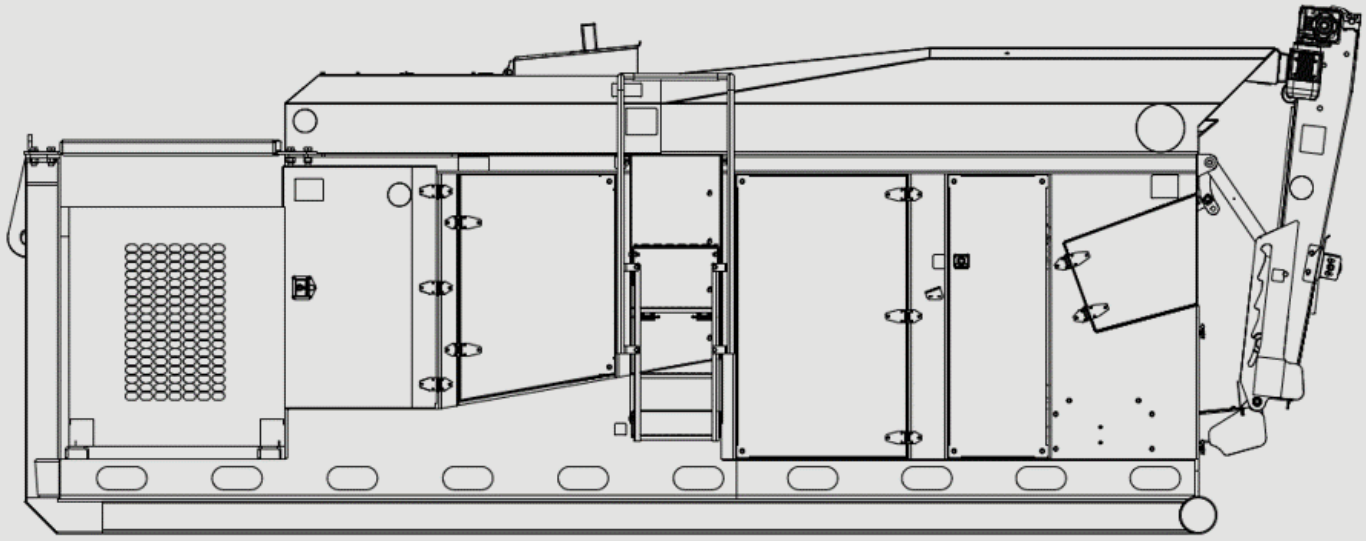


# WEIGHTS & DIMENSIONS

## TRANSPORT DIMENSIONS - BISON 160

**Length**: 6.9m (22' 8") **Width**: 2.3m (7' 7") **Height**: 2.6m (8' 6") **Weight**: 13,500kgs (29,760lbs)



# GALLERY & MEDIA













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