



# **BISON 170**

**JAW CRUSHER**

TECHNICAL  
SPECIFICATION

# OVERVIEW

**1**

## HOPPER

- 2.0m<sup>3</sup> (2.6 Cubic yards) hopper capacity

**2**

## FEEDER

- Integrated Pre-Screen for removal of fines
- Feeder auto re-start based on load and jaw level

**3**

## JAW CHAMBER

- High capacity single toggle jaw
- 700mm x 500mm (28" x 20") Jaw inlet
- Hydraulic CSS adjust
- CSS Range: 35mm (1.4") to 100mm (3.9")

**4**

## PRODUCT CONVEYOR

- 700mm (28") wide belt 2.6m (8' 6") discharge height
- Impact bars at jaw discharge point
- Overband magnet

**5**

## ENGINE OPTIONS

- CAT C4.4 70kW Constant Speed T3a c/w 88kVA Generator
- CAT C3.6 70kW Constant Speed Stage V/T4F Dual Cert c/w 88kVA Generator

**6**

## CONTROL SYSTEM

- Simple intuitive operator control panel



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

## WEIGHT

17,000 kg (37,478lbs)

## TRANSPORT DIMENSIONS

Width: 2.3m (7' 7")

Height: 3.2m (10' 5")

Length: 8.2m (26' 11")

# HOPPER/FEEDER

## HOPPER

- Hopper Capacity (Heaped): 2.0m<sup>3</sup> (2.6 Cubic yards)
- Hopper Width: 1.8m (5'11")
- Hopper Length: 2.8m (9'2")
- Loading Height: 3m (8'6")
- Fixed structure with Bolt-in Hardox Liners on wear areas

## FEEDER

- Integrated Pre-Screen for removal of fines with bolt in wear plate grizzly cassette.
- Screening Area: 2700mm (8' 10") x 660mm(2' 2")
- Twin 900W out of balance motor drive.
- Feeder auto re-start based on load and jaw level
- Feeder can be started and stopped using feeder remote control
- Grizzly or Tine media available



# CRUSHER

- High capacity single toggle Moore Watson jaw crusher
- 700mm x 500mm (28" x 20") Jaw Inlet
- Hydraulic CSS adjust: 35mm (1.4") to 100mm (3.9")
- Chamber Stroke - 24mm
- 240MPa Compressive Strength. (For applications outside this range please contact EvoQuip)
- Max Feed size: 550mm (22") x 400mm (16") x 650mm (25")
- Jaw Chamber Weight: 5,900 kg (13,007lbs)
- 13 fixed/14 swing tooth configuration
- Electric Motor Drive 45kW
- Vee belt and pulley drive
- Reverse drive function
- Chamber unblock/Jog function
- Jaw Speed - 330 rpm



# CRUSHER

## 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.



## JAW DEFECTOR PLATE

Re-bar defector plate fitted to swing jaw as standard.



# PRODUCT CONVEYOR

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

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

**Discharge height:** 2.6m (8' 6")

- Impact bars at jaw discharge
- 400mm (16") clearance from jaw to conveyor
- Side skirting to over band magnet area
- High grade belt scraper
- Fixed belt speed - 1.1m/sec
- The conveyor can be raised & lowered for access
- Single 3kW electric drive gear motor



# MAGNET & DUST SUPPRESSION

## MAGNET (AS STANDARD)

- Single Pole Magnet
- 1.5kW electric drive
- 750mm (30") Belt width
- Stainless steel chute both sides
- Easily switched from RHS to LHS discharge.

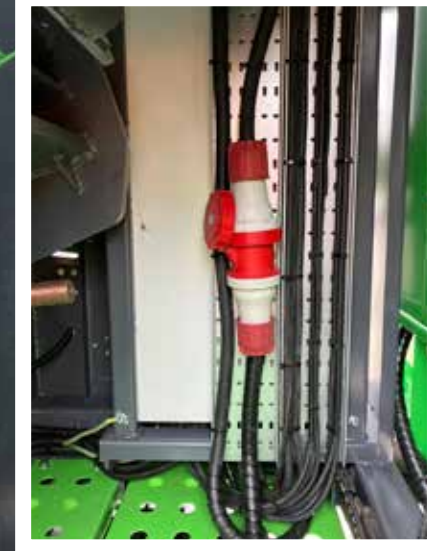
## DUST SUPPRESSION (AS STANDARD)

- Spray bars and pipe work fitted - no waterpump.
- Locations - Crusher inlet, Crusher outlet & main conveyor discharge.



# POWER UNIT

- Efficient diesel electric drive.
- Cat engine driving 88kVa on board Leroy-Somer generator
- Zero emissions capable with 125 amp mains plug in connection
- External Power Supply -  
Voltage: 400V - 415V / 50Hz  
Pulley change required
- External Power Supply -  
Voltage: 480V - 500V / 60Hz
- "Drop off" Powerunit capable.
- Clear access to controls and ground level maintenance
- Fuel Tank Volume - 269L
- Hydraulic Tank Volume - 311L





# POWER UNIT

## Engine Options:

- Gen set incorporating Leroy-Somer alternator (88KVA standby)
- CAT C4.4 70kW @ 1800rpm  
Constant Speed T3
- CAT C3.6 70 kW @ 1800 rpm  
Constant Speed T4F/Stage V Dual Cert



# CONTROLS

- Auto-start or manual start functions
- Jaw Motor fitted with "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
- Remote start/stop for feeder



# ACCESSIBILITY

- Maintenance steps and platform both sides
- Bolt on and hinged access doors both sides



# TRACKS

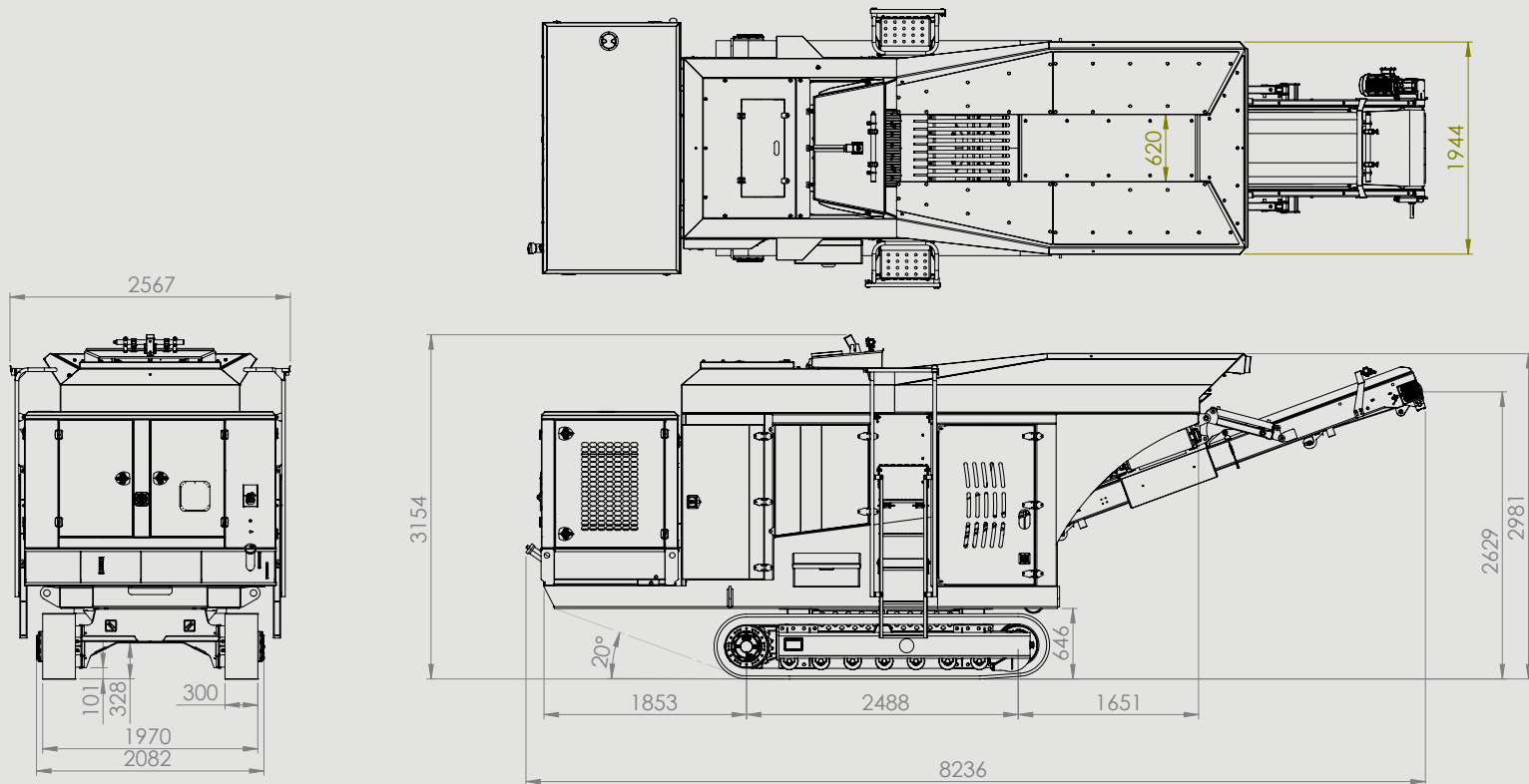
- Track width: 300mm
- Track Sprocket centers: 2488mm
- Single speed tracking
- Rear rake angle: 34°
- Front rake angle: 20°



# WEIGHTS & DIMENSIONS

## WORKING DIMENSIONS - BISON 170

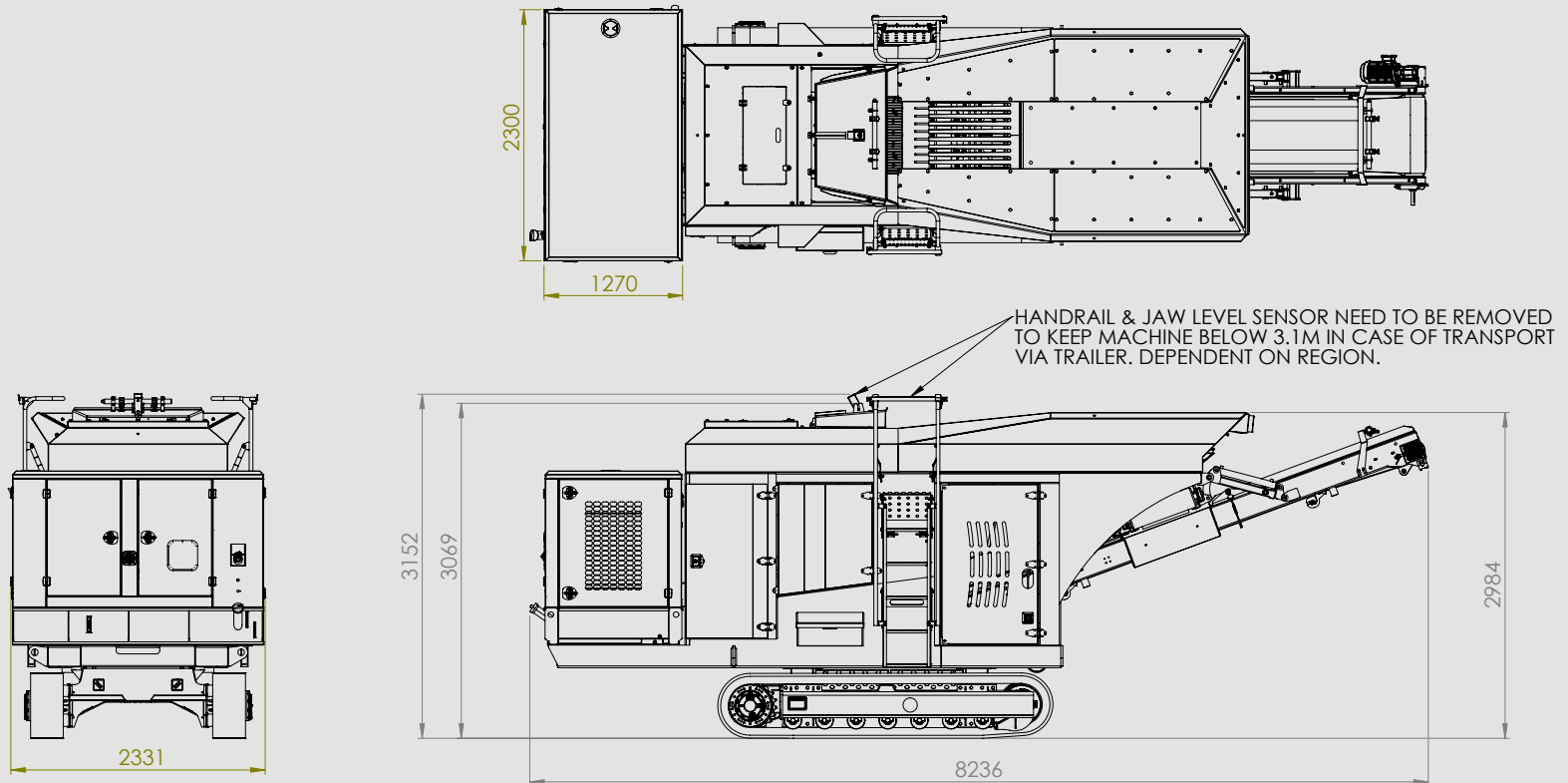
**Length:** 8.2m (26' 11")    **Width:** 2.6m (8' 5")    **Height:** 3.2m (10' 5")    **Weight:** 17,000 kg (37,478lbs)



# WEIGHTS & DIMENSIONS

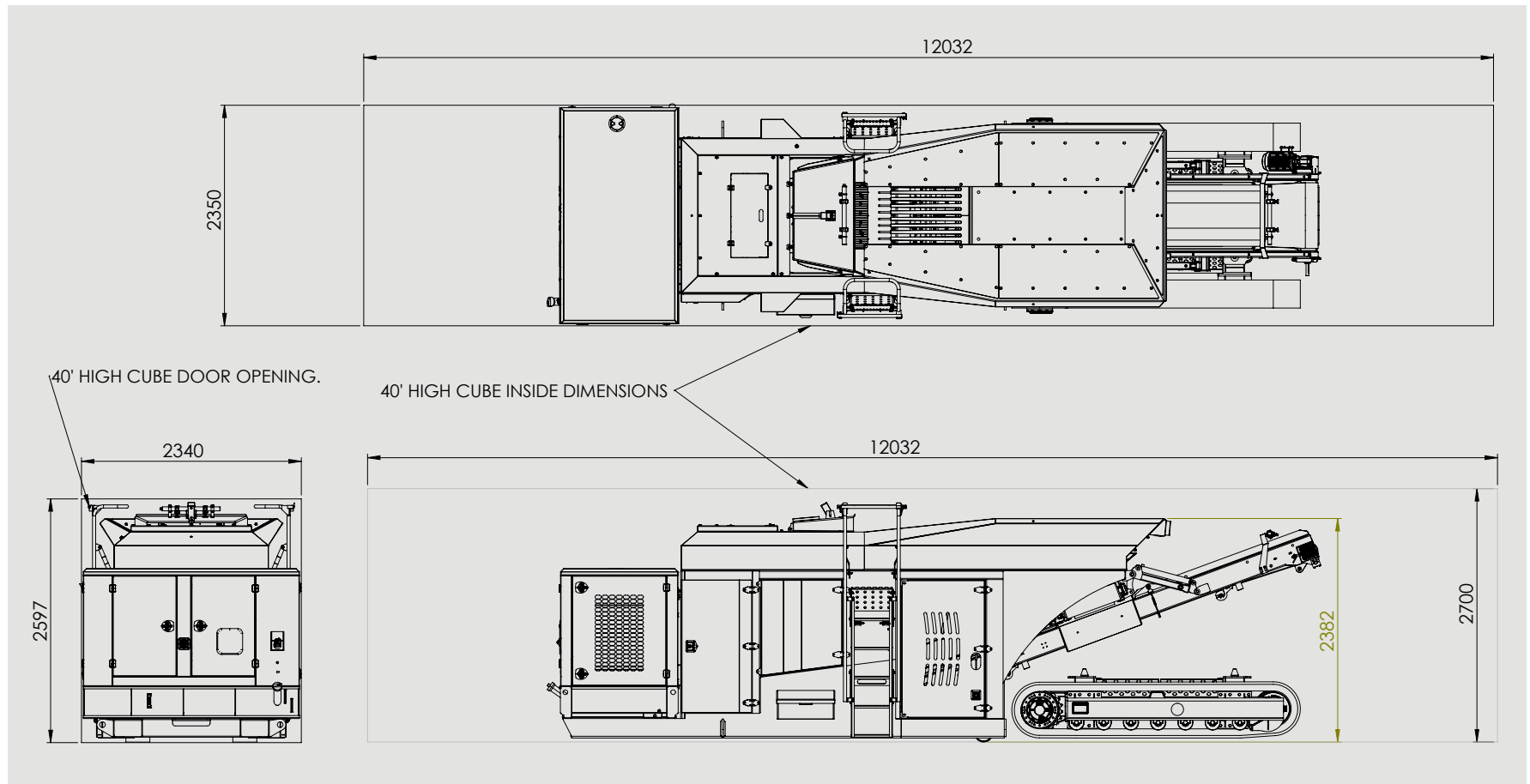
## TRANSPORT DIMENSIONS - BISON 170

**Length:** 8.2m (26' 11") **Width:** 2.3m (7' 7") **Height:** 3.2m (10' 5") **Weight:** 17,000 kg (37,478lbs)



# WEIGHTS & DIMENSIONS

## TRANSPORT DIMENSIONS CONTAINER - BISON 170



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