

BISON 280

JAW CRUSHER

TECHNICAL
SPECIFICATION



PLEASE ENSURE YOU ARE USING ADOBE ACROBAT
READER TO VIEW THIS DOCUMENT.

OVERVIEW

1

HOPPER

- 3.6m³ (4.7 cubic yards) hopper capacity

4

PRODUCT CONVEYOR

- 800mm (32") wide belt 2.9m (9' 6") discharge height
- Excellent under crusher clearance

7

BY-PASS CONVEYOR OPTION

- 600mm (24") wide belt
- 2.07m (6' 10") discharge height
- Available LHS (std.) or RHS discharge



CRUSHER DRIVE:

Extremely efficient diesel direct drive for optimal fuel efficiency and performance

2

FEEDER

- Integrated stepped grizzly for fines removal
- Feeder speed auto regulates based on crusher load

5

ENGINE OPTIONS

- Stage IIIA Constant Speed: John Deere 4045 126 kw (169hp)
- Tier 4 Final: Caterpillar C4.4 129kW (173Hp)
- Stage V: Caterpillar C4.4 129 kW(173hp)

3

JAW CHAMBER

- High capacity single toggle jaw
- 900mm x 600mm (36" x 24") Jaw inlet
- Hydraulic Adjust
- CSS Range: 40mm (1 1/4") to 130mm (5 1/4")

6

CONTROL SYSTEM

- Simple intuitive operator control panel



UP TO
200
TONNES PER HOUR
(220 US TPH)

FEDER

Fixed hopper bin

Hopper Capacity: 3.6m³ (4.7
cubic yards)

Hopper Width: 1.68m (5' 6")

Loading Height: 3.2m (10' 5")

Fabricated from 8mm (5/16")
thick wear resistant steel



FEEDER

Integrated Pre-Screen for removal of fines

Two Bolt - in Stepped Grizzly cassettes

50mm (2") nominal spacing grizzly as standard

40mm (1.5") aperture under-screen mesh as standard

Screen area: 1200mm x 775mm (48" x 31")

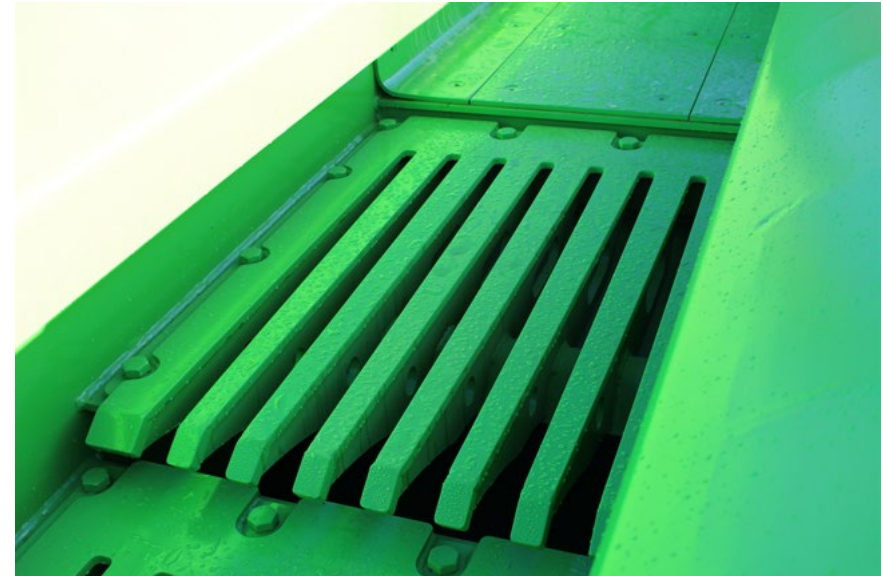
Proven twin shaft geared vibrator assembly

Feeder speed automatically regulates depending on engine load

Replaceable 10mm (3/8") wear liners on feeder floor

Wear plates have large radii in corners to prevent material sticking

Ability to rotate mesh deck to ease media change



CRUSHER

High capacity single toggle jaw crusher

900mm x 600mm (36" x 24") Jaw Inlet

Hydraulic Adjust as standard

25mm (1") thick cheek plates

CSS Range: 40mm (1.5") to 130mm (5.25")

Minimum CSS:

40mm (1.5") – Recycle

50mm (2") – Natural Rock

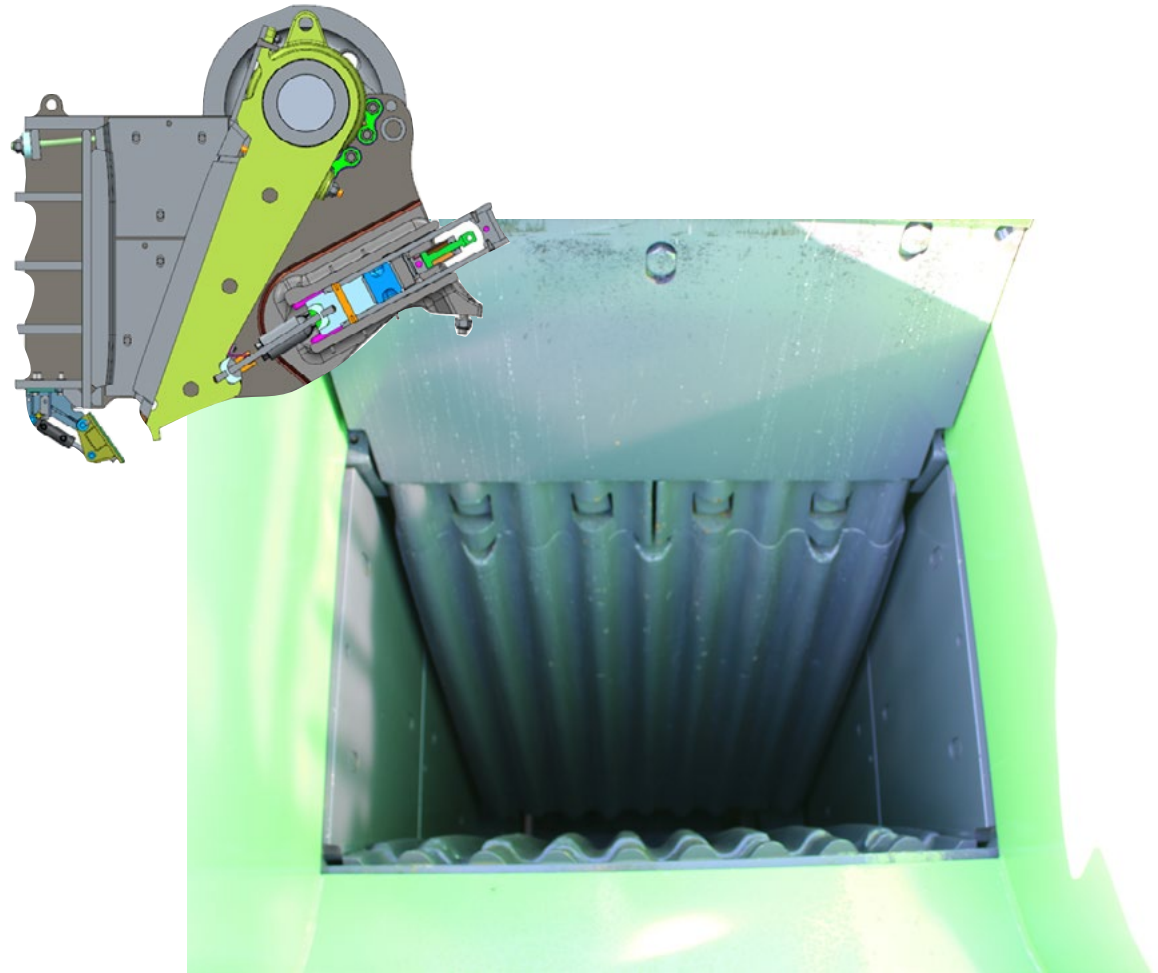
Maximum feed material strength of 390kN
10% Fines; 240MPa Compressive Strength. For
applications outside this range please contact
EvoQuip

Jaw Speed

266rpm with Constant Speed John Deere

266 to 295rpm with Tier 4 Final CAT

Feed size: 540mm (21.5") cube, Max slab size
500mm x 850mm (20" x 34")

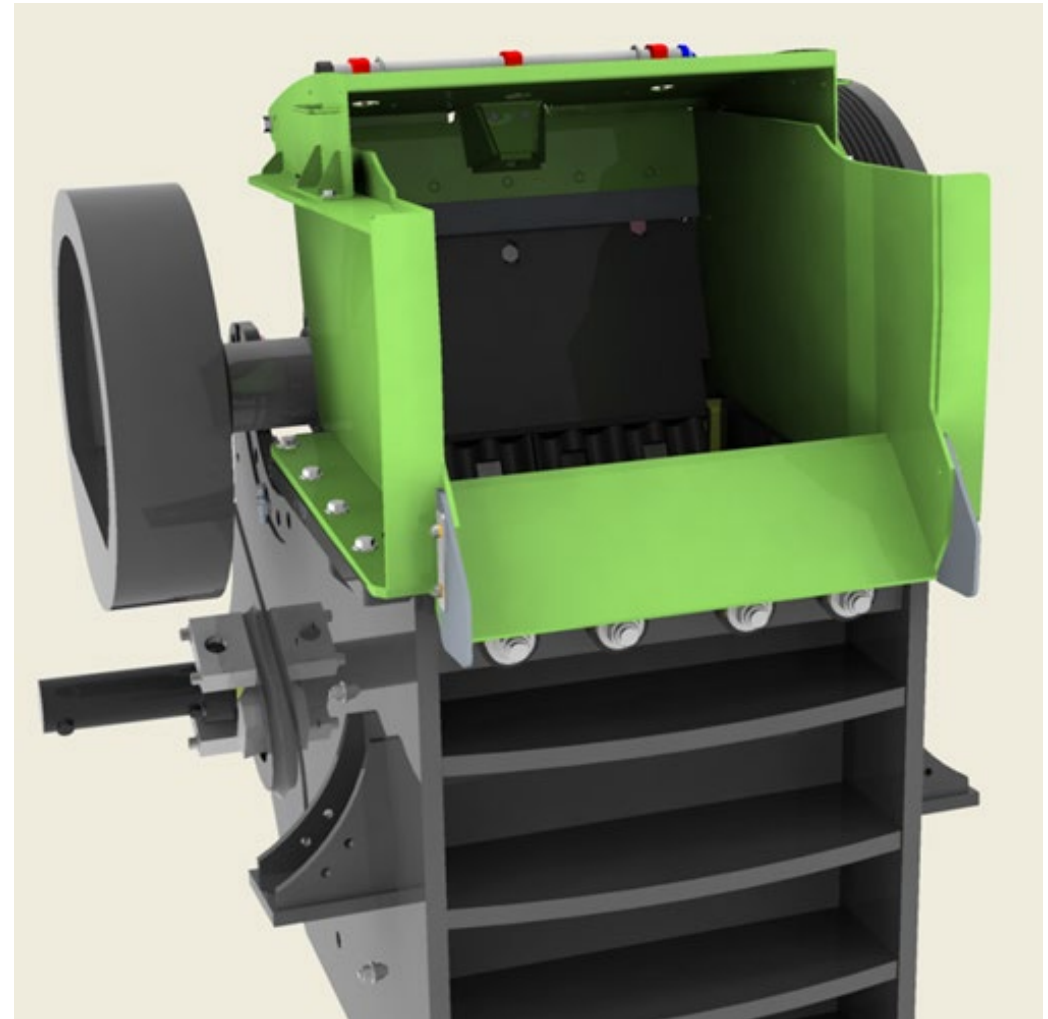


CRUSHER

INLET CHUTE

Inlet chute fabricated from wear resistant plate

Hinged cover plate which can be folded for transport



PRODUCT CONVEYOR

Belt width: 800mm (32")

Belt specification: EP500/3 5+1.5

Discharge height: 2.9m (9' 6")

Impact bed at jaw discharge point

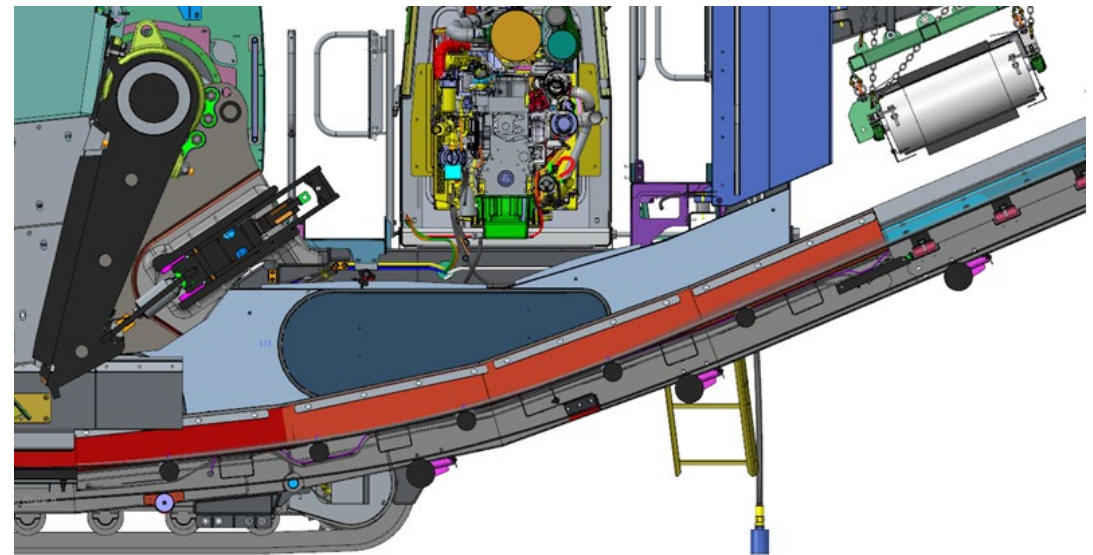
440mm (17.5") clearance from jaw to conveyor

High specification head drum scraper



PRODUCT CONVEYOR TUNNELLING

The machine is fully tunnelled from the rear of the jaw chamber to the end of the hydraulic tank to reduce the potential for steel / rebar to snag



POWER UNIT

Engine Options:

Stage IIIA Constant Speed: John Deere 4045 126 kw (169hp)

CAT C4.4 Tier 4 Final 129kW (173Hp) engine

Stage V: Caterpillar C4.4 129 kW (173hp)

Operating conditions:

Ambient temperature: -10°C (14°F) to + 50°C (122°F)

Altitude: Up to 1000m (3281ft) above sea level*

* For applications outside of this range please consult with EvoQuip as the plant performance / reliability may be affected

Clutch Type: Highly efficient, self adjusting HPTO 12 dry plate clutch with electro hydraulic operation

Crusher Drive: Direct drive via V belts

Tensioning: Manually adjustable screw tensioners under powerunit



POWER UNIT

Excellent service
access to engine
dipstick / filters etc

Centralised hydraulic
compartment to
ease service and
troubleshooting

Excellent access to
drive belts



POWER UNIT

HYDRAULIC TANK

Capacity: 280 Litres (75 US Gallon)

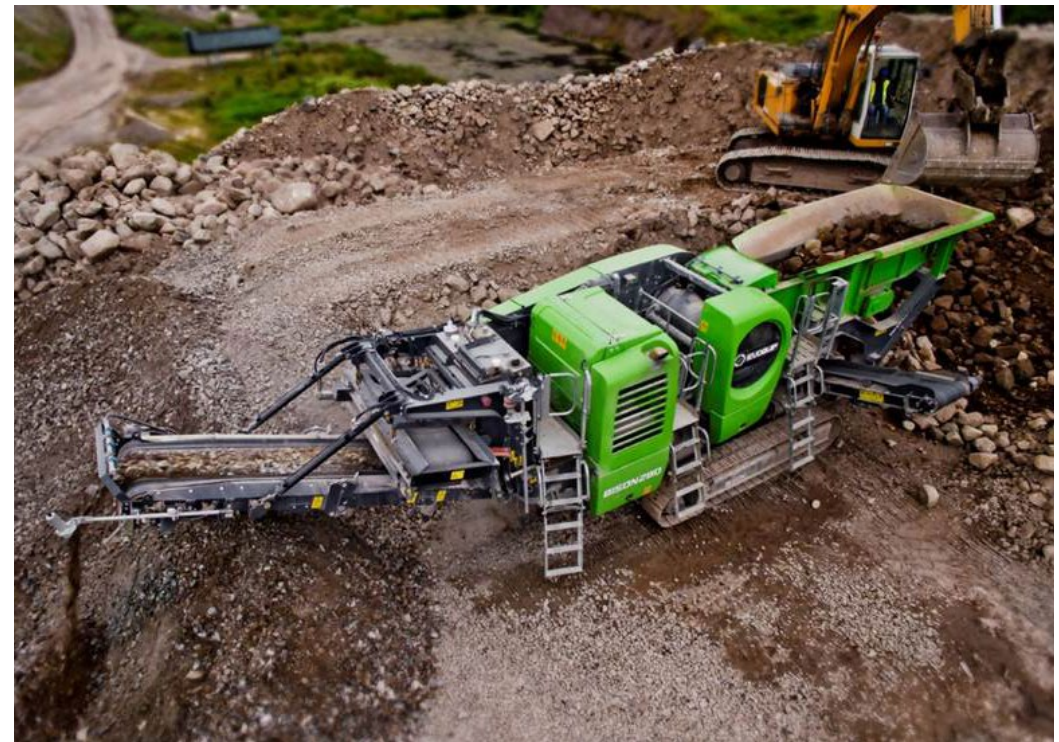
The tank is anti-vibration and mounted on the chassis



DIESEL TANK

Capacity: 400 Litres (106 US Gallon)

The tank is anti-vibration and mounted on the chassis



ACCESS PLATFORMS

Ground level access

Galvanised finish



TRACKS

Heavy duty bolt on track frames

2 speed motor as standard

Sprocket Centres: 2950mm (9' 8")

Shoe Width: 400mm (16")

Gradeability: 30 deg

Rear rake angle: 23 deg

Front rake angle: 23 deg



CONTROLS

Intuitive 'push button'
Control System

Machine start-up can be
completed by 2 button
presses



CONTROLS

Telemetry as standard



OPTIONS

VGF

- Different Grizzly Cassette
- Apertures
- Wire Mesh for Grizzly underscreen

By-Pass Conveyor

Jaw Crusher

- Supertooth Jaw plates
- Multitooth Jaw plates
- Jaw level sensor
- Under Crusher Hydraulic Deflector Plate
- Crusher Un-block system

Main Conveyor

- Hydraulic Raise and Lower of Product
- Conveyor
- Hydraulic Folding Product Conveyor c/w hydraulic raise and lower
- Quick to Remove Aluminium Dust Covers for Main Conveyor
- Belt Weigher
- Stockpile level sensor

Overband Magnet (both Single Pole and Twin Pole options available)

Hydraulic Raise and Lower of Magnet

Radio Remote Control

Dust Suppression (inc Waterpump)

Hot / Cold Climate Oils

Electric Refuelling pump

Control Panel Pressurisation

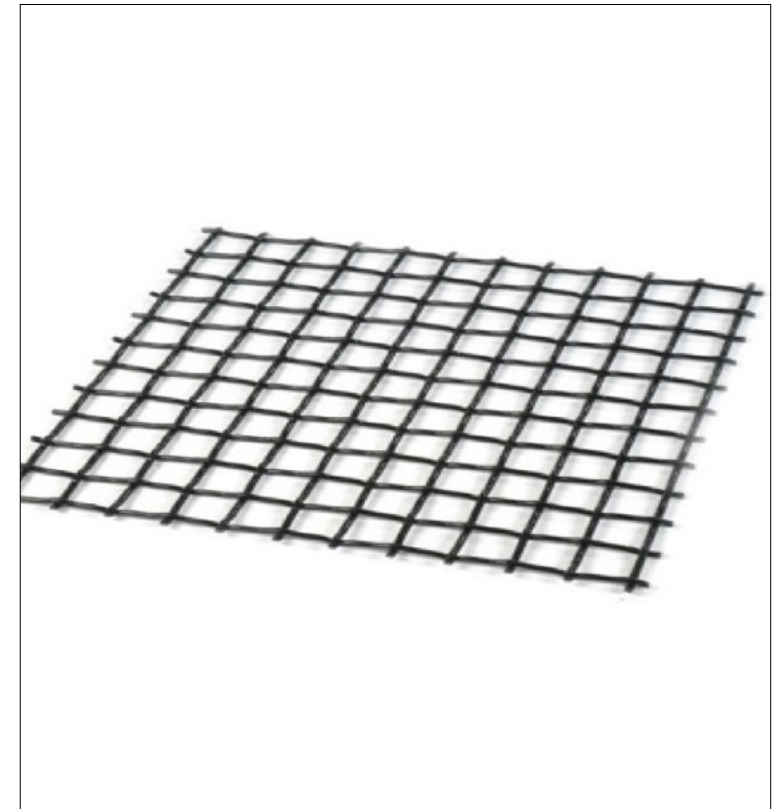
Feeder Control Station

Plant Lighting Mast

OPTIONS

VIBRATING FEEDER

Alternative Grizzly Apertures



Wire Mesh for Grizzly underscreen

OPTIONS

BY-PASS CONVEYOR

Belt width: 600mm (24") wide

Belt specification: EP400/3 4+2

Discharge height: 2.07m (6'-10")

Available LHS discharge (Std) or RHS (optional)

Hydraulically folds for transport



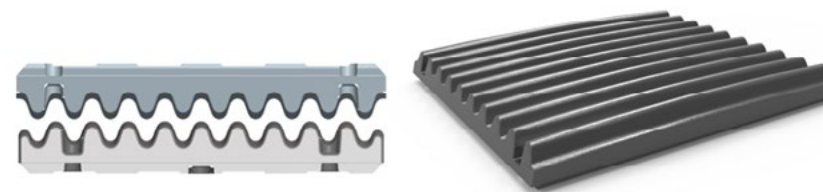
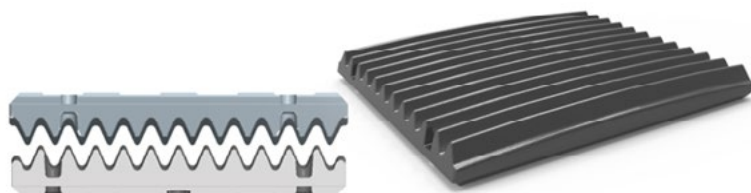
OPTIONS

CHAMBER

Supertooth jaw plates

S-Tooth

- Medium to hard rock applications
- Grips material to allow improved crushing & product
- Available 18% and 22%



Multitooth jaw plates

Multi-Tooth

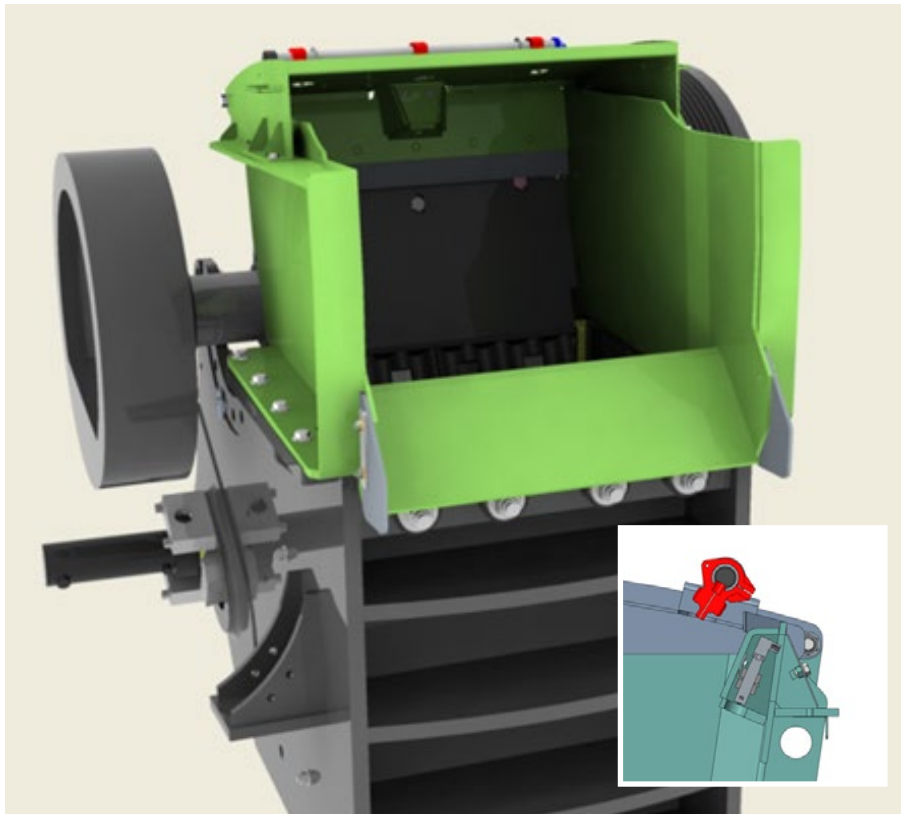
- Recycling applications
- Good grip on smooth flat surfaces e.g. concrete slabs
- Available in 18%

Note: Jaw liners can be flipped

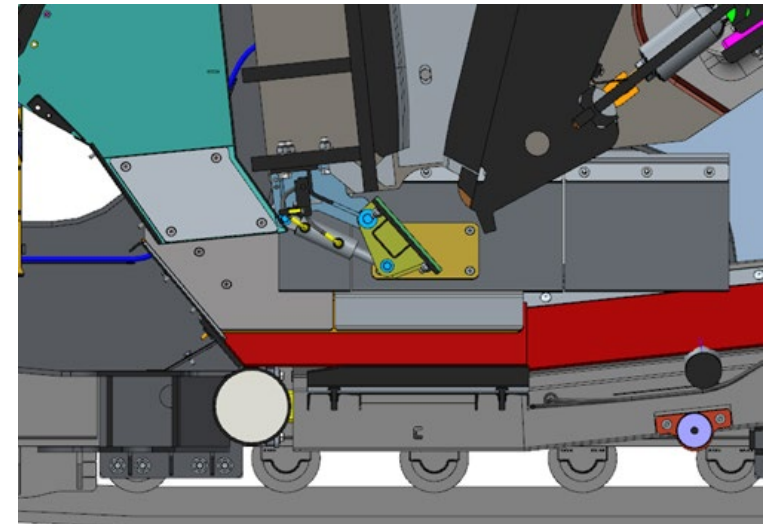
OPTIONS

CHAMBER

Jaw level sensor



Under Crusher Deflector Plate



OPTIONS

CHAMBER

Crusher Un-block system



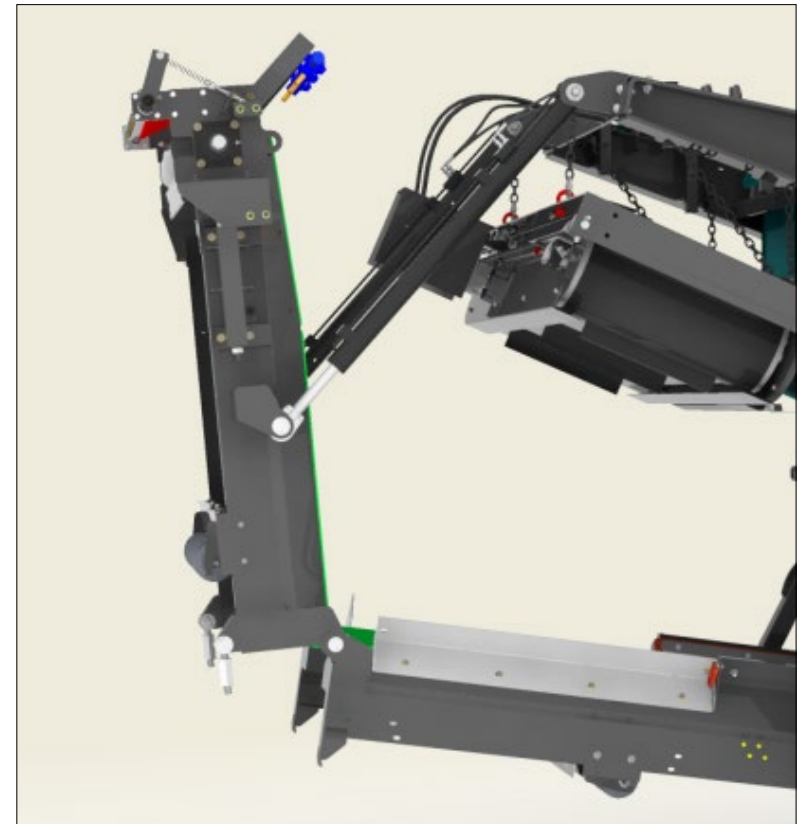
OPTIONS

PRODUCT CONVEYOR

Hydraulic Raise and lower of Product Conveyor



Hydraulic Folding Product conveyor c/w Raise / Lower



OPTIONS

PRODUCT CONVEYOR

Quick to remove Aluminium dustcovers



Beltweigher



OPTIONS

PRODUCT CONVEYOR

Stockpile level sensor

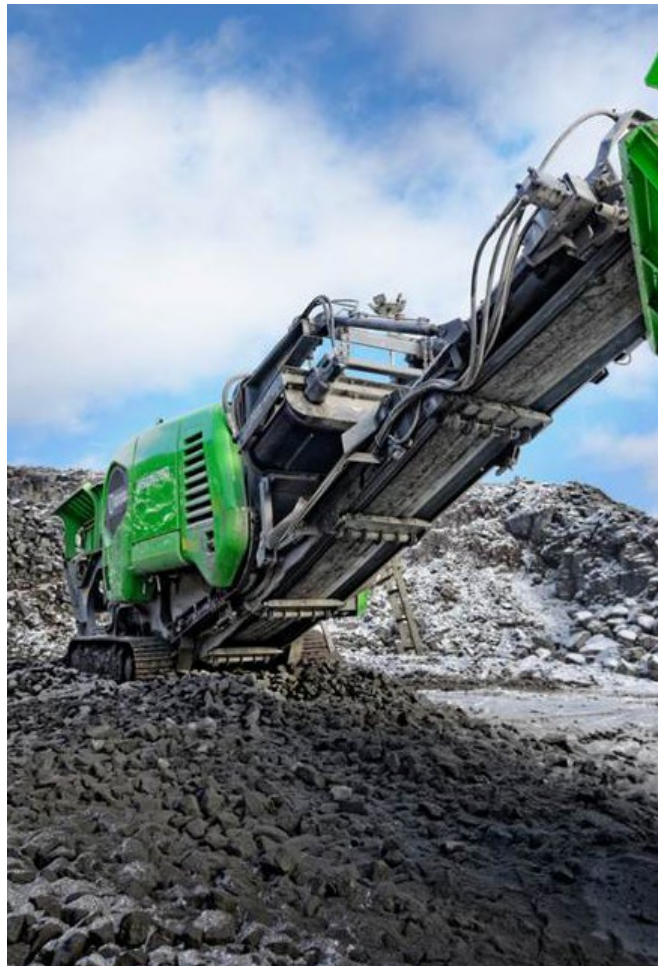


OPTIONS

MAGNET

- Single Pole and Twin Pole magnets available as an Option
- 750mm (30") Belt width
- RHS Discharge as standard
- LHS Optional

Hydraulic Raise / Lower of Magnet



OPTIONS

OTHER OPTIONS

Radio Remote Control



Dust suppression



Hot / Cold Climate Oils



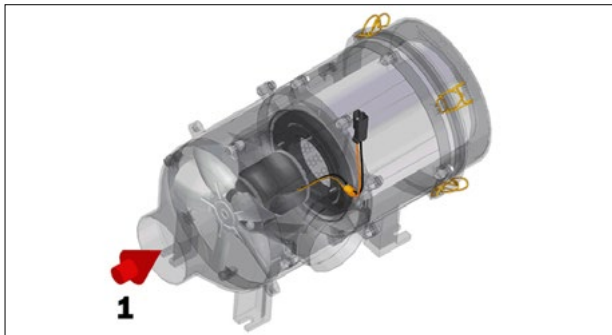
Electric Refuelling Pump



OPTIONS

OTHER OPTIONS

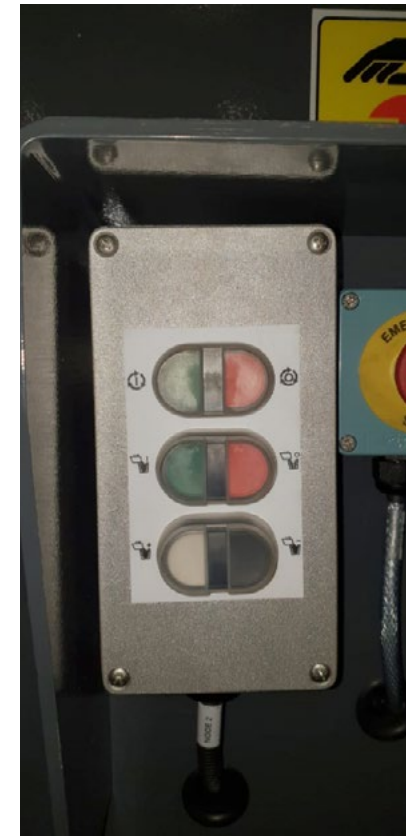
Control Panel Pressurisation



Plant Lighting Mast



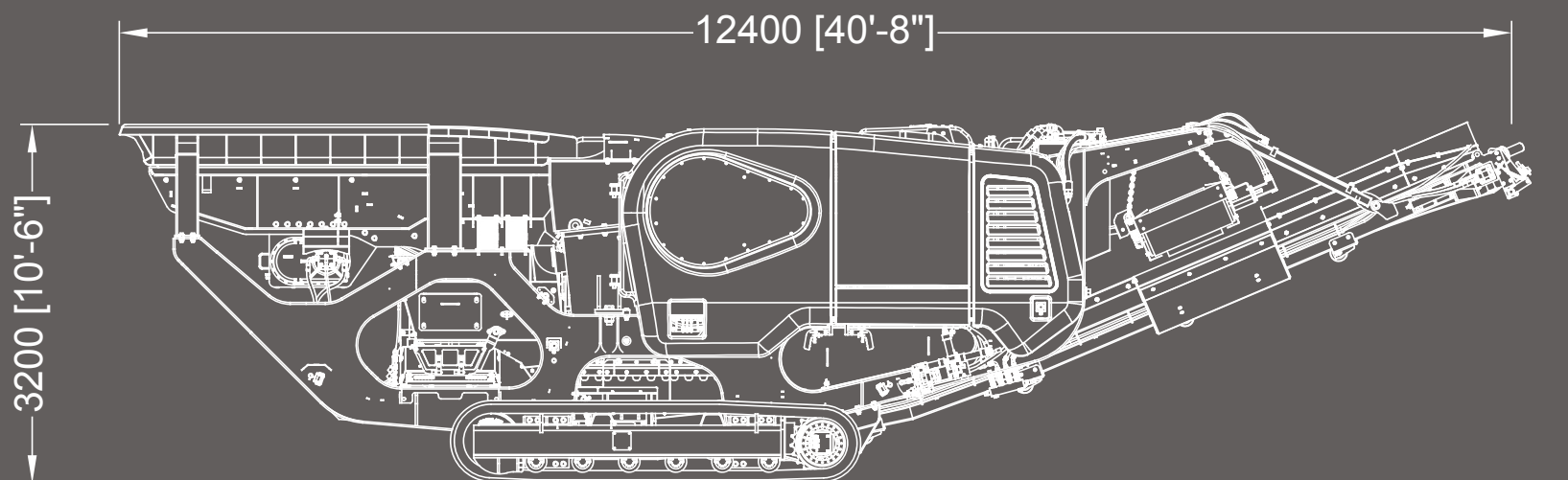
Feeder Control Station



WEIGHTS & DIMENSIONS

WORKING DIMENSIONS - BISON 280

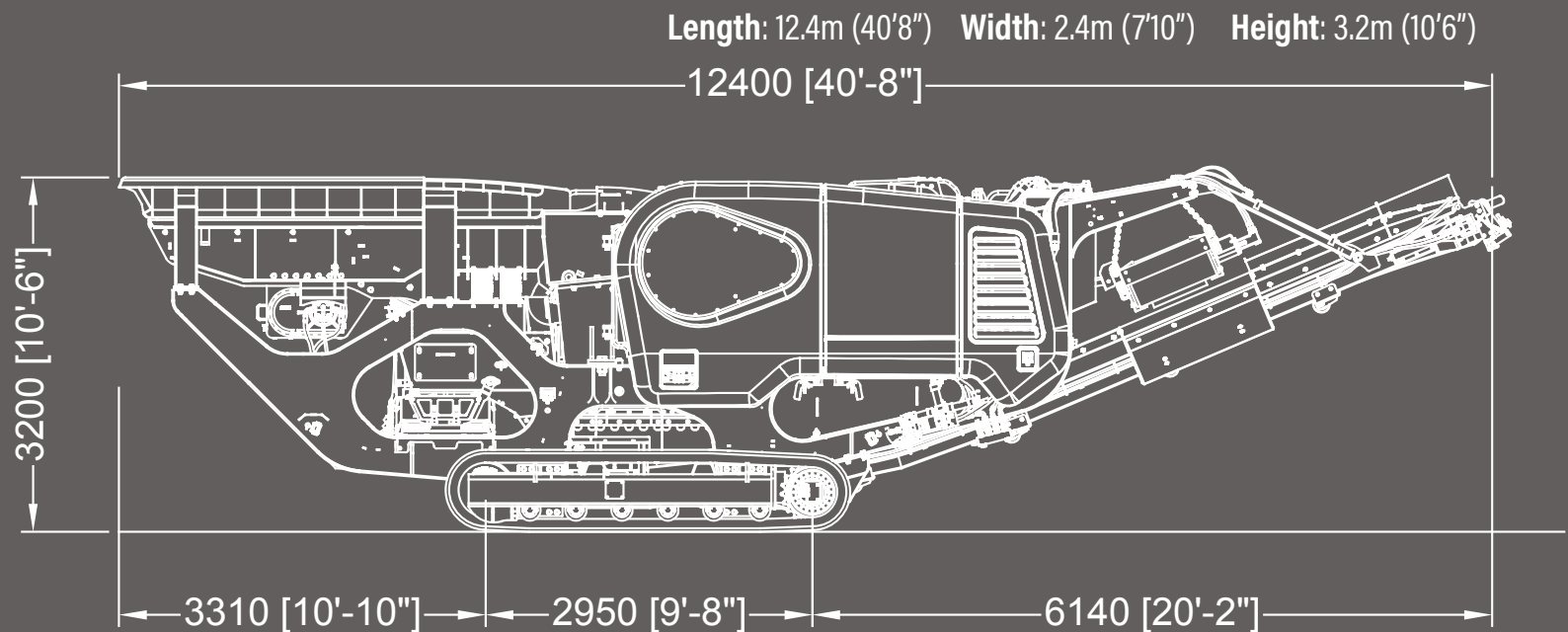
Length: 12.4m (40'8") **Width:** 3.8m (12' 6") **Height:** 3.2m (10'6") **Weight:** 27,700kg (61,068lbs) (T3 with bypass conveyor and single pole magnet options)



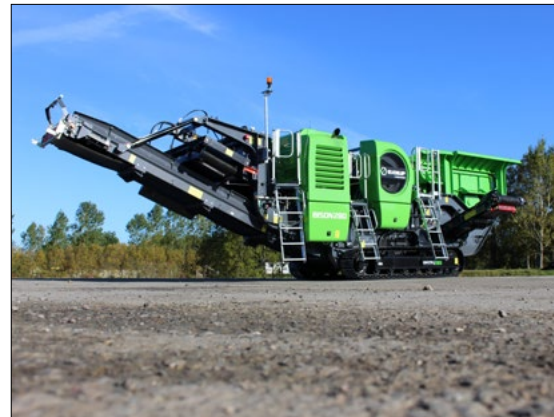
WEIGHTS & DIMENSIONS

TRANSPORT DIMENSIONS - BISON 280

Length: 12.4m (40'8") **Width:** 2.4m (7'10") **Height:** 3.2m (10'6") **Weight:** 28,000kg (61,730lbs) (T3 with bypass conveyor and single pole magnet options)



GALLERY & MEDIA



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