EVOQUIP®
A TEREX BRAND



BISON 280
JAW CRUSHER

TECHNICAL
SPECIFICATION

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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

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 (1¾") to 130mm (5 ¼")

6
CONTROL SYSTEM
- Simple intuitive operator control panel



CRUSHER DRIVE:
Extremely efficient diesel direct drive for optimal fuel efficiency and performance

UP TO
200
TONNES PER HOUR
(220 US TPH)

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FEEDER

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





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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")

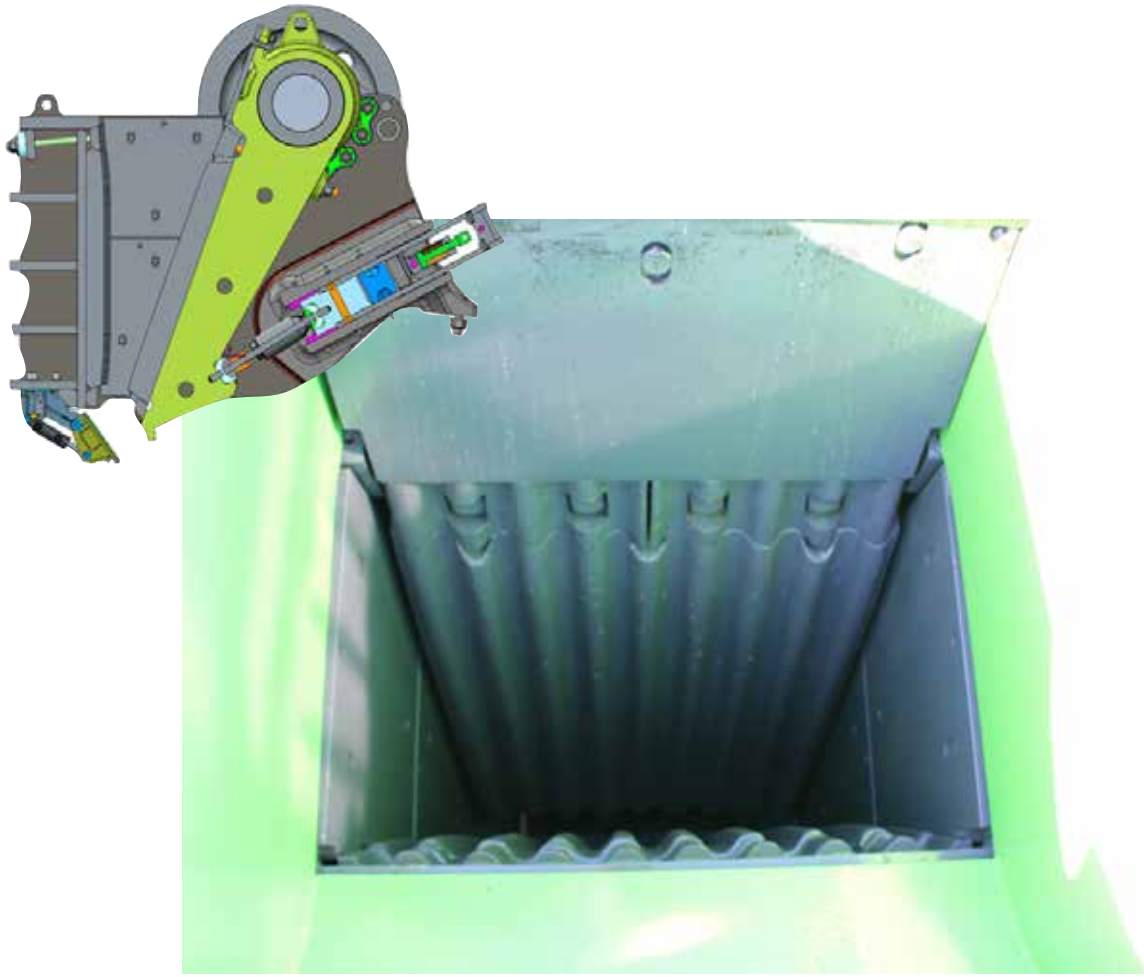
Minimum CSS:
40mm (1.5") – Recycle
50mm (2") – Natural Rock

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")

Jaw level sensor fitted as standard



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CRUSHER

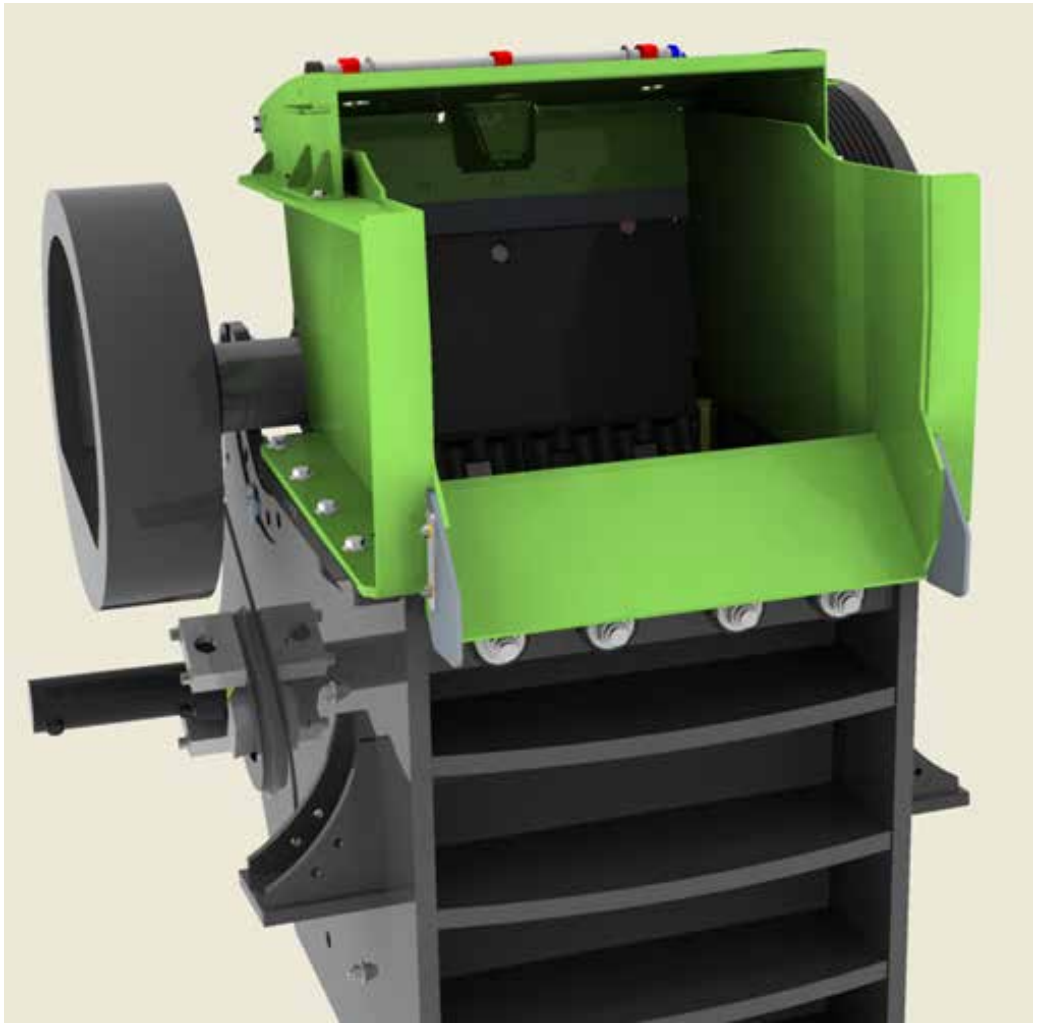
INLET CHUTE

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



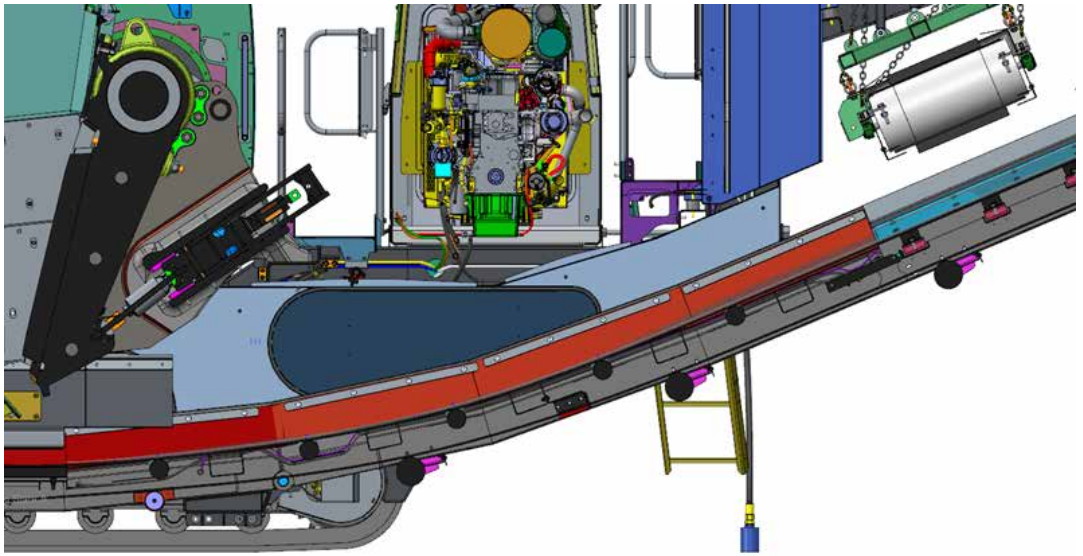




PRODUCT CONVEYOR TUNNELLING

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)

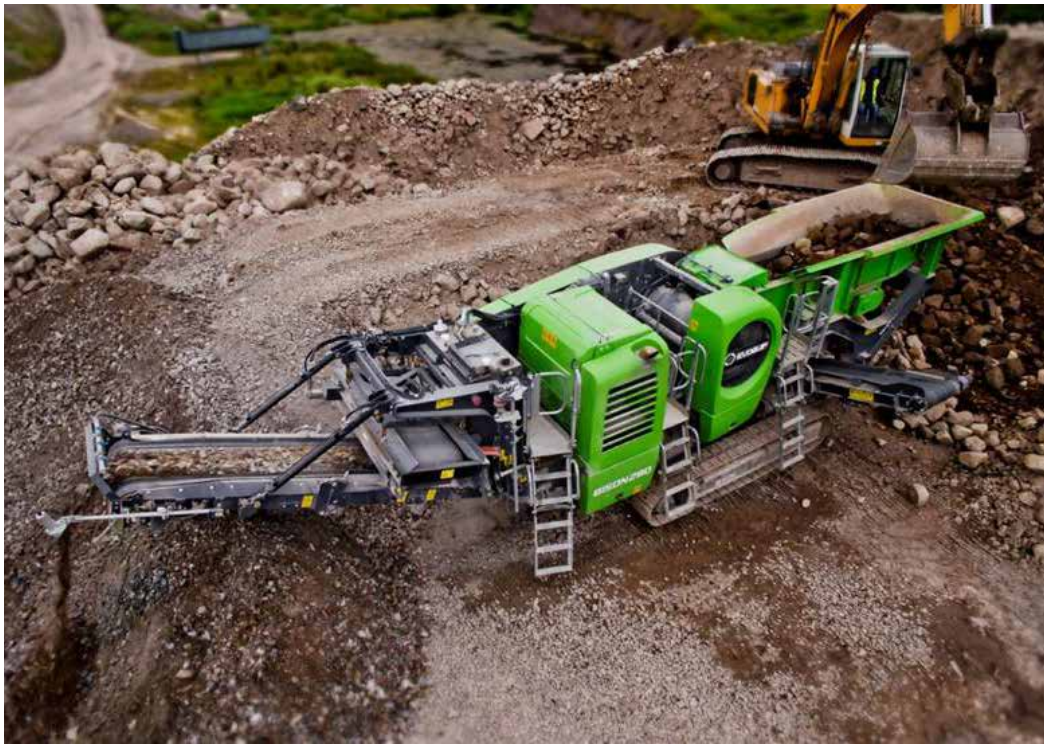
The tank is anti-vibration and mounted on the chassis



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
- 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

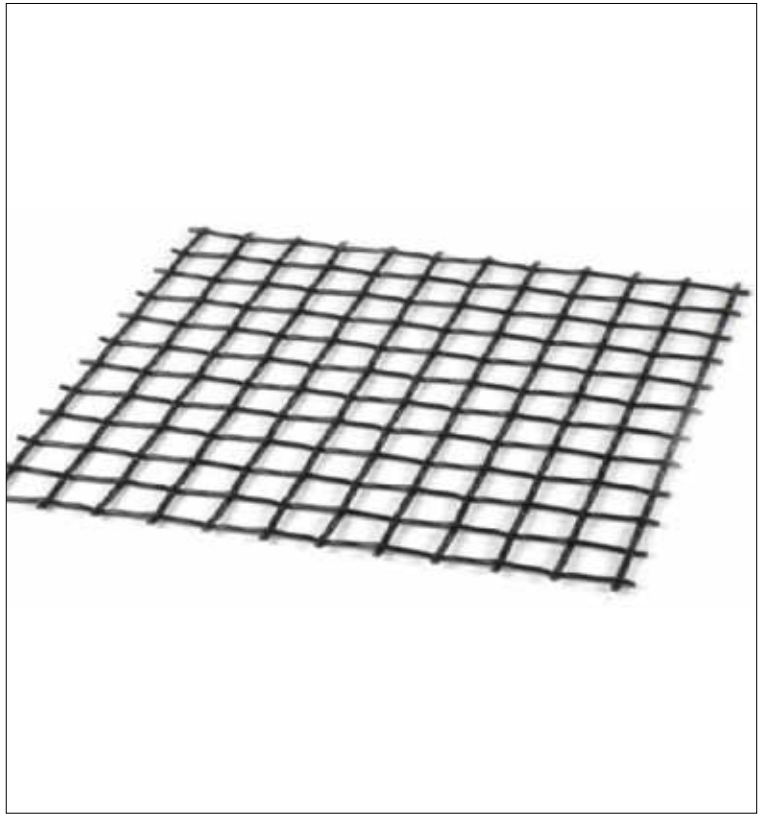
Plant Lighting Mast

OPTIONS

VIBRATING FEEDER

Alternative Grizzly Apertures





Wire Mesh for Grizzly underscreen

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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



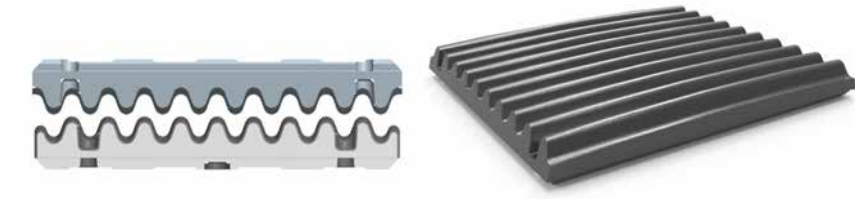
OPTIONS

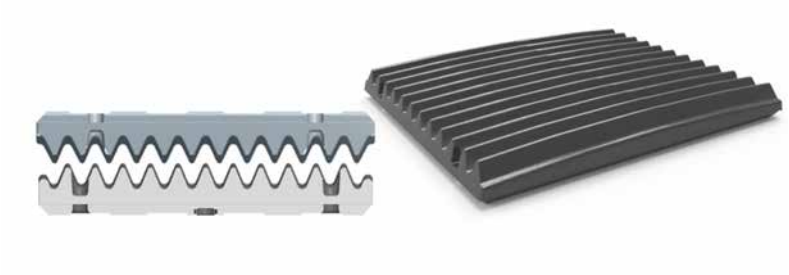
CHAMBER

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%

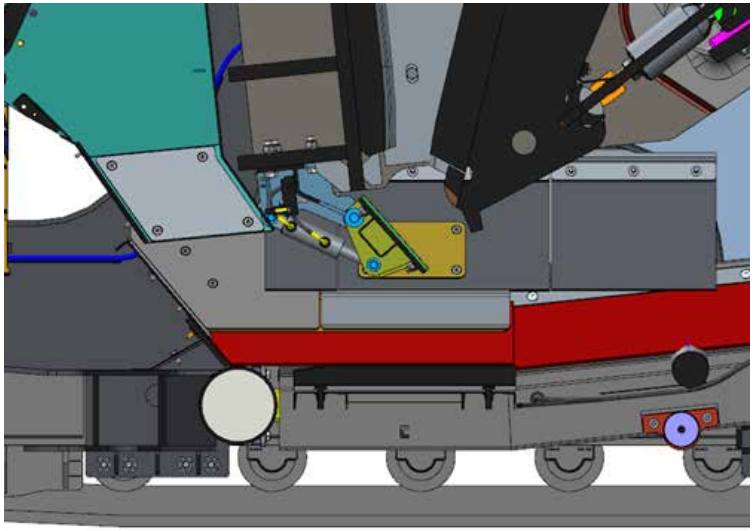
Note: Jaw liners can be flipped

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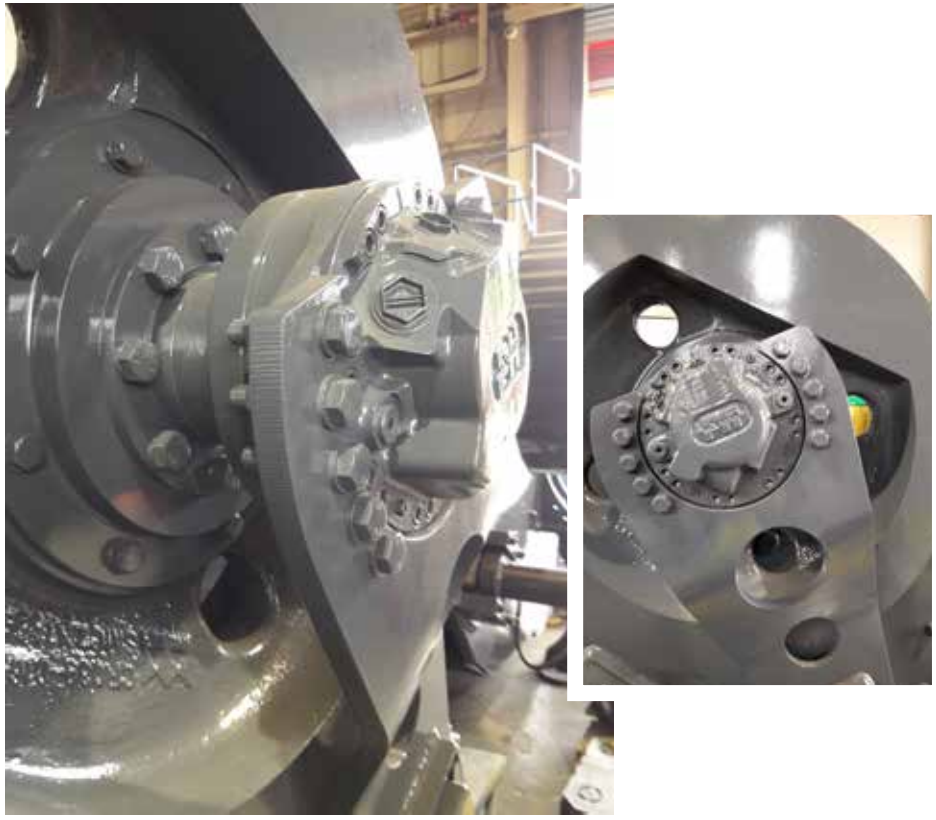
OPTIONS

CHAMBER

Under Crusher Deflector Plate



Crusher Un-block system



OPTIONS

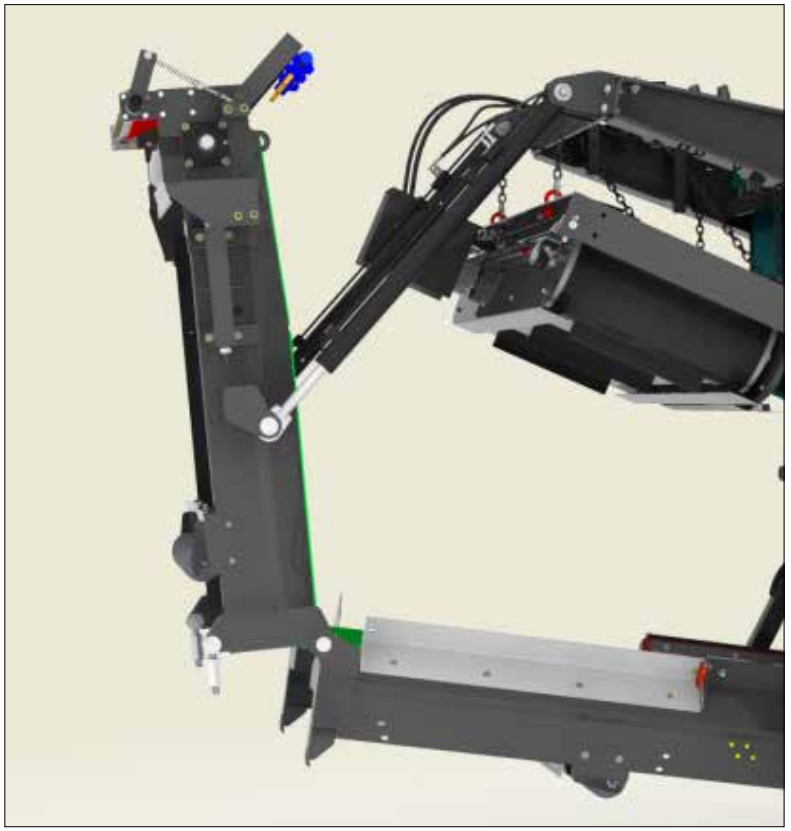
PRODUCT CONVEYOR

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





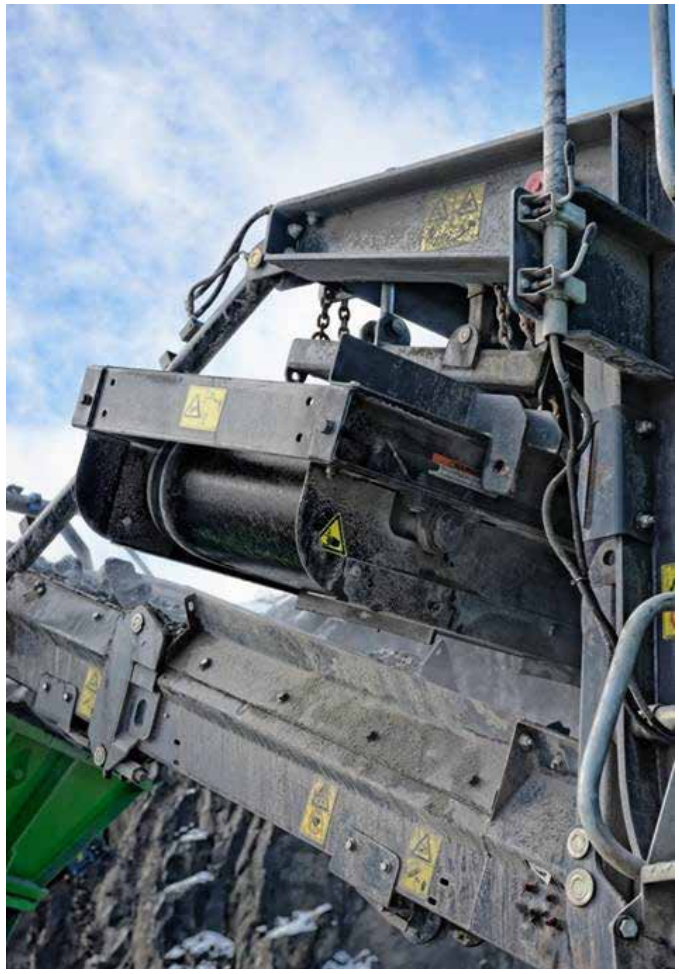
OPTIONS

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

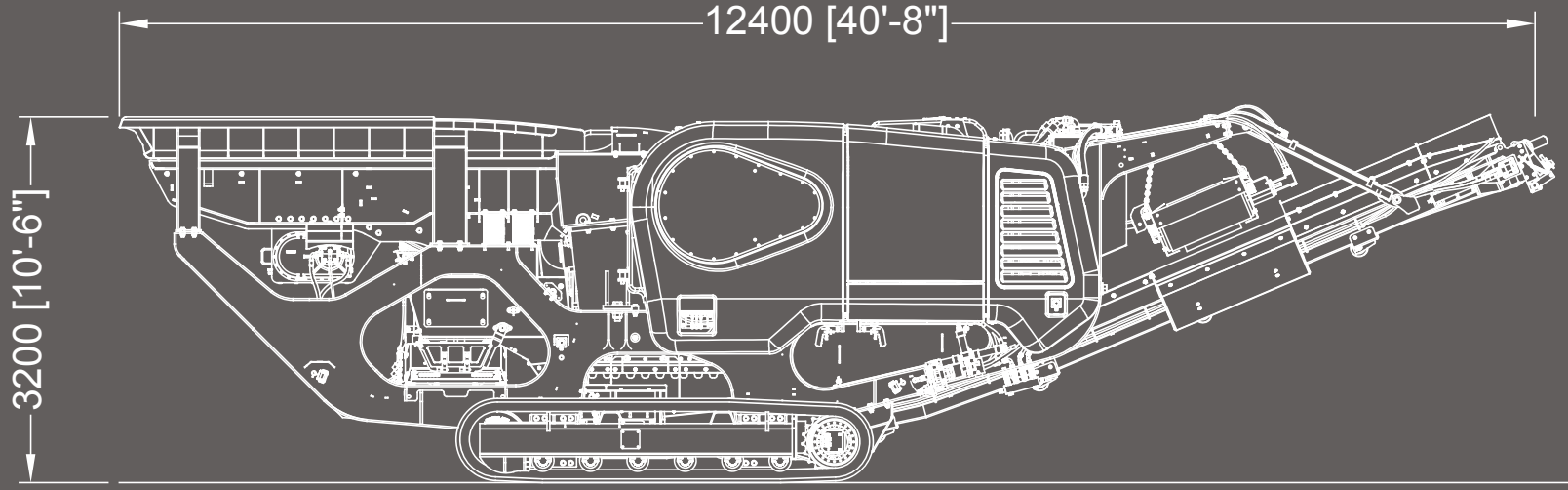


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WEIGHTS & DIMENSIONS

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)

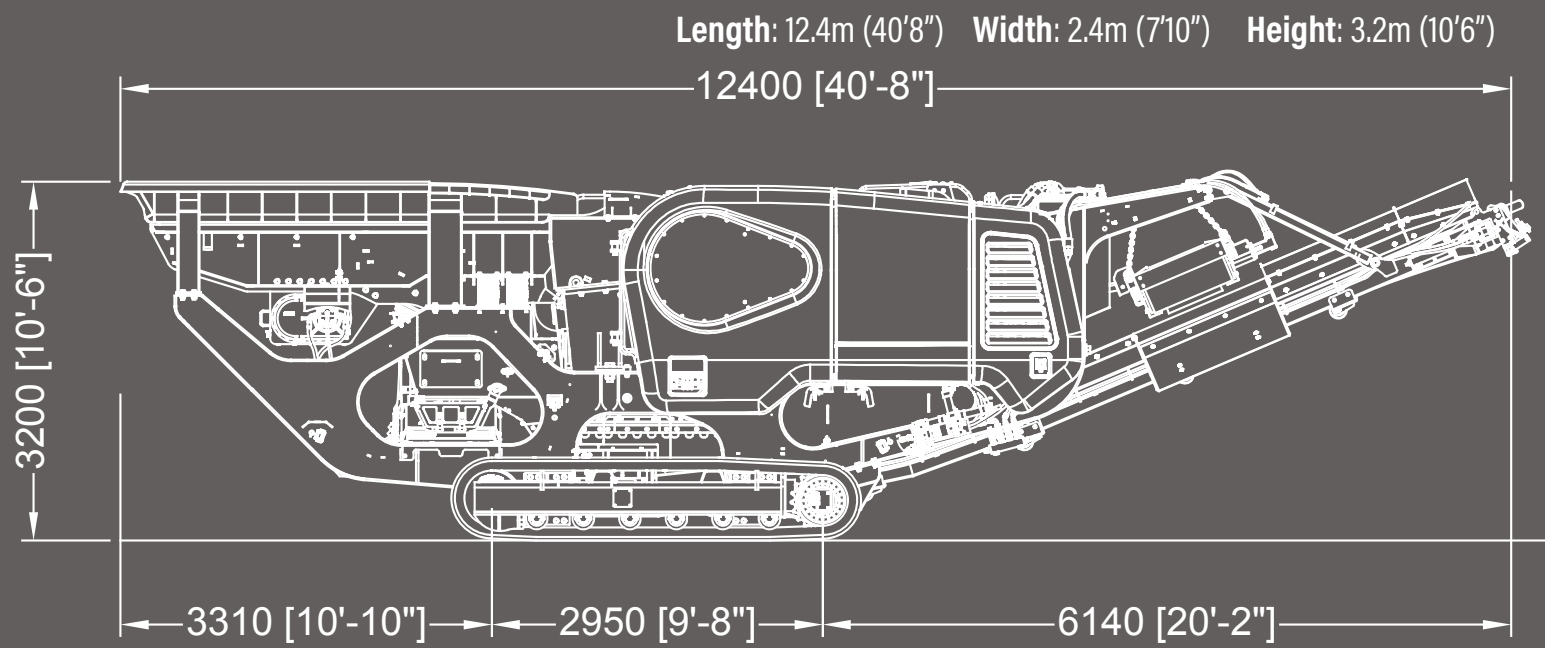


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WEIGHTS & DIMENSIONS

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)



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