



BISON 340

JAW CRUSHER

TECHNICAL
SPECIFICATION

OVERVIEW

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HOPPER/FEEDER

- 5m³ (6.5yd³) Hopper capacity
- Vibrating Pan and grizzly feeder

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CONTROL SYSTEM

- Simple intuitive operation

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ENGINE OPTIONS

- Tier 3/Stage 3A:
John Deere 6068 212 kW (284hp)
- Tier 4F/Stage V:
CAT C7.1 205kW (275hp)

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JAW CRUSHER

- Chamber Size: 1000mm x 600mm (39"x23.6")
- Min CSS: 40mm (1.5")*
- Max CSS: 125mm (5")*

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CONVEYORS

- 900mm (35") Wide product conveyor
- Product conveyor discharge height: 3.5m (11'5")



* Depending on application

UP TO
280
TONNES PER HOUR
(308 US TPH)

OVERVIEW

The EvoQuip Bison 340 is a high performance primary jaw crushing plant and is designed for operators in quarrying, demolition, recycling & mining applications.

User benefits include track mobility for a quick set-up time, hydraulic crusher setting adjustment for total control of product size & crusher overload protection to prevent damage by un-crushable objects.

FEATURES & BENEFITS

- Output potential up to 280tph (308 US tph) (Depending on application & CSS)
- Hydrostatic Drive with reverse crush capacity
- Heavy duty wear resistant feed hopper
- Stepped self-cleaning grizzly feeder with under feeder screen
- Wide bypass chute to optimise material flow
- Aggressive crushing action with high swing jaw encouraging material entry into crushing chamber
- Fully hydraulic crusher setting adjustment
- Improved manganese liner retention, protects jaw supports on both swing & fixed jaws
- Excellent under crusher access for removal of wire with hydraulic raise/lower product conveyor (Optional)
- Low fuel consumption due to efficient drive system and low engine RPM
- Easily accessed power unit canopy
- PLC control system with auto start facility
- Remote control via umbilical
- Dust suppression system
- EvoQuip T-Link telemetry as standard
- Radio remote control as standard

JAW CRUSHER

Crusher type:	Single toggle Jaw with hydraulic setting adjustment
Feed opening:	1000mm x 600mm (39" x 24")
Bearings:	Self aligning spherical roller
Lubrication:	Grease
Drive:	V belts with screw adjust tensioner
Pre-set:	75mm (3") closed side setting (CSS)
Minimum setting:	40mm (1.5") CSS recycling 50 mm (2") CSS quarry

All setting measured from root to tip & subject to suitability of feed material. This plant has been designed for both quarry & recycling applications where appropriate. For maximum material strength of 390kN 10% Fines, 240MPa compressive strength. If in doubt please contact your dealer or EvoQuip.

Maximum setting:	125mm (5") CSS standard jaws (HA)
Hydraulic adjustment:	Hydraulically adjusted C.S.S using wedge system.

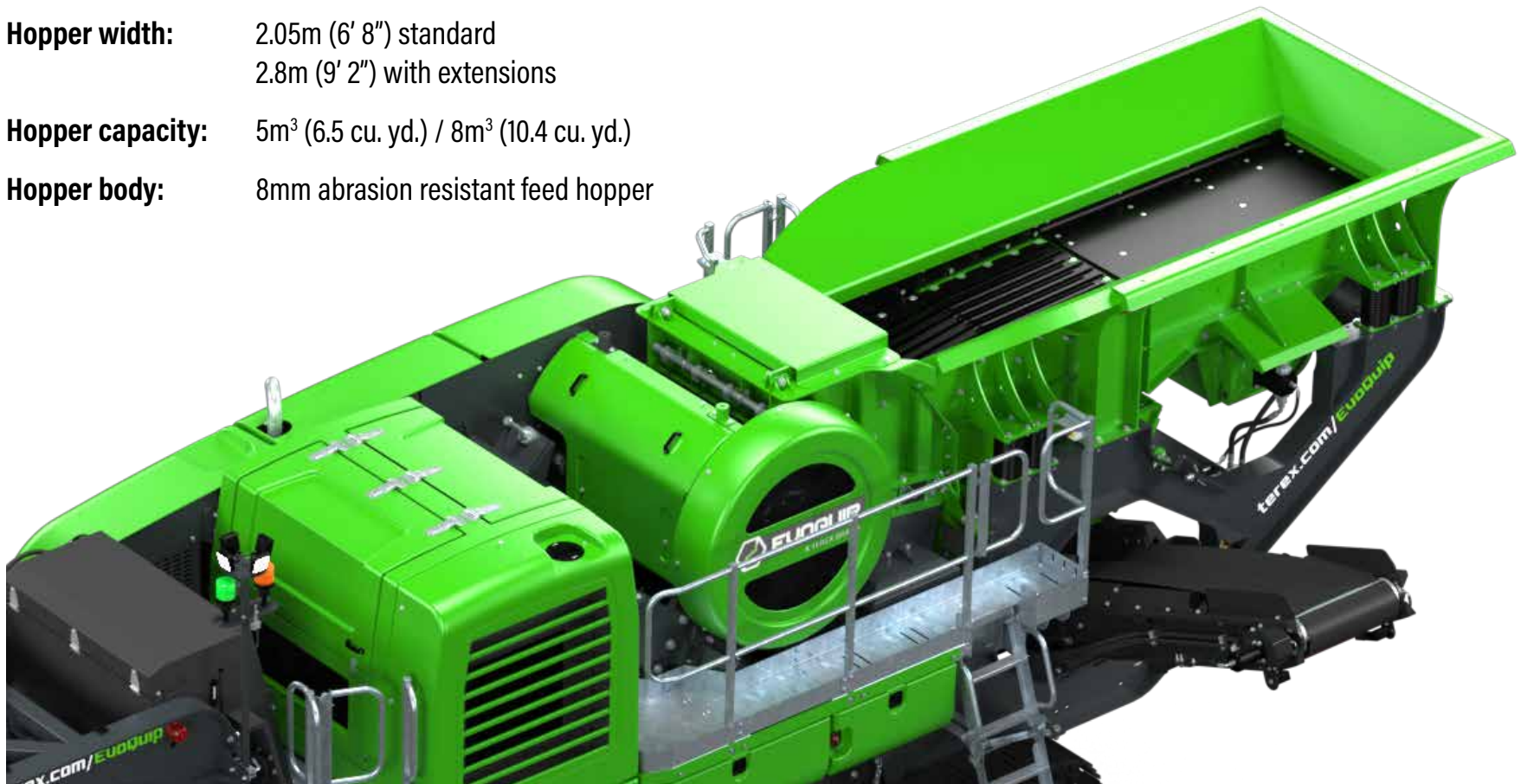


CHAMBER FEATURES

- Hydrostatic with full reverse crush capability
- Quick & easy setting adjustment
- Drawback rod hydraulic adjustments not required during setting changes
- Cartridge type bearings
- Overlap jaw protects tip of jawstock
- One piece fixed jaw support
- Proven manganese liner retention

HOPPER

Hopper type:	Fixed hopper as standard
Hopper length:	4.46m (14' 8")
Hopper width:	2.05m (6' 8") standard 2.8m (9' 2") with extensions
Hopper capacity:	5m ³ (6.5 cu. yd.) / 8m ³ (10.4 cu. yd.)
Hopper body:	8mm abrasion resistant feed hopper



VIBRATING GRIZZLY FEEDER

Type:	Spring mounted vibrating pan & grizzly feeder
Vibrating Unit:	Twin heavy-duty cast eccentric shafts running in spherical roller bearings, gear coupled at drive end
Drive:	Flange mounted hydraulic motor
Length:	3.75m (12' 3")
Width:	0.94m (3')
Grizzly:	2 replaceable stepped cartridge type grizzlies 50mm nominal aperture, self cleaning
Grizzly length:	1.89m (6' 2")
Under-screen:	30mm mesh fitted as standard

CHUTE FEATURES

Heavy duty fully welded inlet chute with wear resistant liner plates.

Bypass chute with selectable discharge flop gate, to either bypass conveyor or product conveyor



PRODUCT CONVEYOR

Conveyor type:	Troughed belt conveyor
Design:	Fixed frame at horns to allow for transport. Fully removable modular unit to aid access & maintenance
Belt type:	EP500/3 with 8mm top & 2mm bottom cover, vulcanised
Belt width:	900mm (36")
Discharge height:	3.5m (11' 5")
Stockpile volume:	60m ³ (78 cu. yd.)
Drive:	Direct drive hydraulic motor
Tunnel:	Conveyor fitted with tunnel & side covers to minimise rebar snagging
Feedboot:	Mild steel plate with abrasion resistant steel liners at feed point
Belt adjustment:	Screw adjusters at head drum
Belt scraper:	SCS style
Lubrication:	Remote head drum grease points located on conveyor tail section
Skirting:	Wear resistant rubber skirts fitted up to magnet

DUST SUPPRESSION SYSTEM

Sprays bars with atomiser nozzles mounted over crusher mouth. Piped to an inlet manifold for client's pressured water supply

Type:	Clean water multi-atomising nozzles
Inlet:	Single filtered inlet point on chassis
Pressure:	2.8 bar (42 psi)
Frost protection:	Via system drain valves
Pump:	Optional extra



POWER UNIT

Tier 3 Equivalent:	John Deere 6068, 212kW (284hp)
Operating conditions:	Ambient temp. +30°C & -5°C (86F & 23F) altitudes up to 2000m (6562ft) above sea level - For applications outside this range please consult with EvoQuip as the plant performance / reliability may be affected.
Operating rpm range:	1500 or 1800 rpm
Plant drive:	Hydrostatic
Fuel tank capacity:	640 L (169 US GAL)
Hydraulic tank capacity:	600 L (159 US GAL)

Tier 4F/Stage V:	Caterpillar C71, 205kW (275hp)
Operating conditions:	Ambient temp. +30°C & -5°C (86F & 23F) altitudes up to 2000m (6562ft) above sea level - For applications outside this range please consult with EvoQuip as the plant performance / reliability may be affected.
Operating rpm range:	1500-1800 rpm
Plant drive:	Hydrostatic
Fuel tank capacity:	640 L (169 US GAL)
Hydraulic tank capacity:	600 L (159 US GAL)
Urea tank capacity:	60L (16 US GAL)



Note: Telemetry available as standard

TRACKS

Type:	Heavy-duty tracks
Sprocket centers:	3.24m (10'8")
Track width:	400 mm (1' 4")
Climbing grade:	30° maximum
Max Speed:	1kph (0.63mph)
Drive:	Hydraulic motors
Tensioning:	Hydraulic adjuster, grease tensioner



OPTIONS

BYPASS CONVEYOR

Conveyor type:	Troughed, modular with hydraulic raise & lower. Folds hydraulically for transport
Width:	650mm (26")
Discharge height:	2.1m (6' 10")
Stockpile capacity:	12m ³ (15.7 cu.yd.)
Position:	Discharge on RHS or LHS of plant

BELT WEIGHER

Type:	Modular scale with stainless load cells, single idler speed wheel & display unit
Accuracy:	+ 1.0 + 0.5% Rolescale design
Display:	Separate read out near control panel When selected will automatically connect to EvoQuip Telematics

MAGNET

Options:	CP020 single pole (S.P.) TP020 twin pole (T.P.)
Belt width:	750mm (2' 6")
Centres:	1700mm (5' 7")
Drive / Control:	Direct drive hydraulic motor, pre-set variable speed
Discharge:	RHS via stainless shedder plate
Weight:	S.P. 1000kg (2204lbs) T.P. 1500kg (3306lbs)

FEEDER UNDER SCREEN MESH

Position:	Optional aperture meshes fitted in lieu of the standard 30mm (1.2") mesh.
Width:	910mm (3')
Length:	1280mm (4' 2")

OPTIONS

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.

Electric Water Pump

An electrically powered water pump is available to power the dust suppression system.

Under Crusher Deflector Plate

A hydraulic adjustable deflector plate, increases belt protection in recycling applications. Situated immediately below the crusher outlet point & is fitted with a 15mm thick wear resistant plate. Deflector plate working angle can be adjusted from the PLC control system.

Hot/Cold Climate Oils

Cold climate oils - (Recommended for ambient temperatures between -20 to +30°C) - Hydraulic & lubrication oils only. Other component modifications may be required for low temperature operations. Please contact the EvoQuip sales & applications department with any queries.

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

OPTIONS

- Hydraulic Folding Hopper
- Deflector plate under crusher
- Bypass conveyor
- Single pole overband magnetic separator
- Jaw level sensor
- Twin pole overband magnetic separator
- Belt weigher
- Electric water pump
- Stockpiler drive
- Stockpile level sensor
- Hydraulic Raise/Lower Product Conveyor
- Working lights
- Dust covers on discharge conveyor
- Rip stop belt
- Magnet hydraulic raise/lower
- Remote feeder control station



WEIGHTS & DIMENSIONS

WORKING

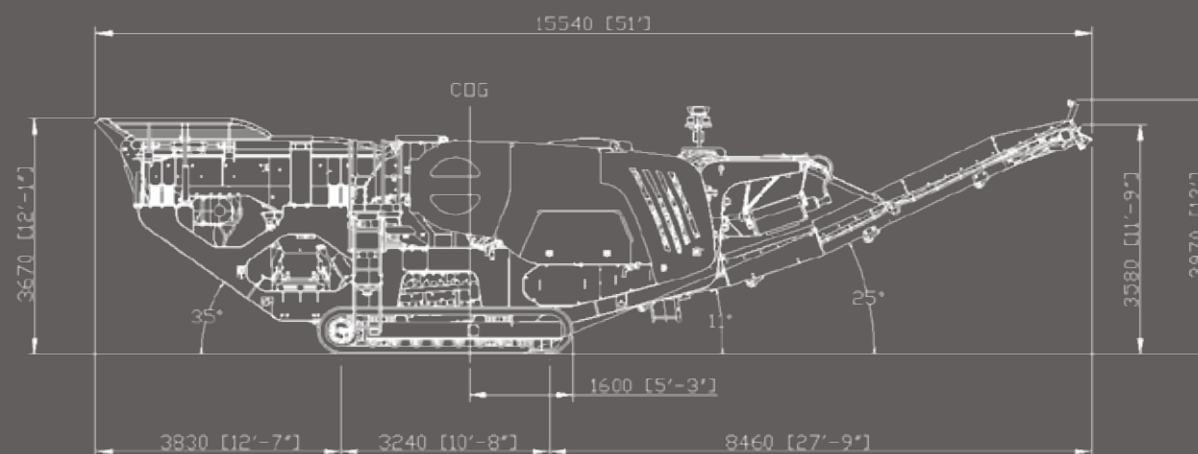
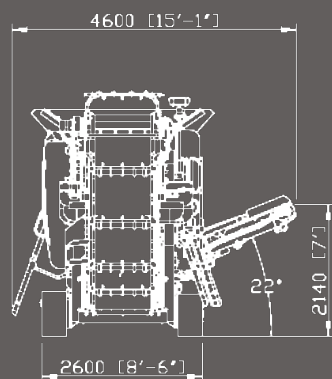
Length: 15.54m (51')

Width: 3.4m (11' 11")

Height: 4.6m (15' 1") with bypass conveyor

Weight: 34,860kg (76,853lbs)

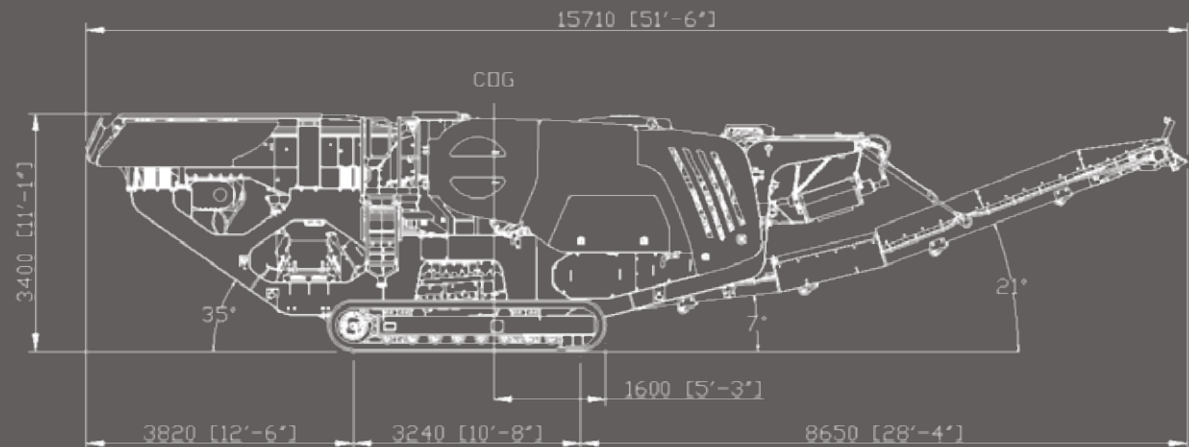
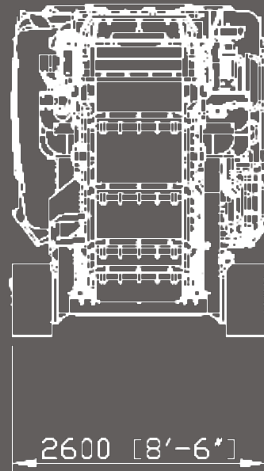
including single pole magnet, hopper extensions
& bypass conveyor



WEIGHTS & DIMENSIONS

TRANSPORT

Length: 15.7m (51' 6")
Width: 2.6m (8' 9")
Height: 3.4m (11' 2")



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