



BISON 220/220R

JAW CRUSHER

TECHNICAL
SPECIFICATION

OVERVIEW

1

HOPPER/FEEDER

- Combined Hopper/Feeder
- 2.6m³ (3.4yd³) Hopper capacity
- Integrated pre-screen for fines removal

2

ENGINE OPTIONS

- Tier 3:
CAT 71 140kW (188hp)
- Stage V/T4F:
CAT C4.4 140 kW (188 hp)

3

JAW CRUSHER

- High capacity single toggle jaw
- Chamber size: 820mm x 550mm (32" x 22")
- Hydraulic adjust CSS
- Min CSS: 25mm (1") Max CSS: 100mm (4")
- Hydrostatic Drive

4

PRODUCT CONVEYOR

- 900mm (35") Wide product conveyor
- Product conveyor discharge height:
3m (9' 10")
- Excellent under crusher clearance

5

CONTROL SYSTEM

- Simple intuitive operation

6

BYPASS CONVEYOR (OPTION)

- 500mm (20") wide belt
- 2.4m discharge height
- Right hand side discharge



* Depending on application

BISON 220 OVERVIEW

The EvoQuip Bison 220 is a high performance jaw crushing plant designed for operators in **quarrying, demolition & recycling** applications.

FEATURES & BENEFITS

- Output potential up to 180tph (200 US tph) (Depending on application & CSS)
- Efficient hydrostatic drive system for optimal efficiency and performance
- Heavy duty wear resistant feed hopper
- Hydrostatic drive system provides unblock chamber functionality and ability to run in reverse
- Feeder auto regulates based on Crushing Pressure & Jaw level sensor
- Fully hydraulic crusher setting adjustment
- Optional R section with recirculating conveyor
- Recirculating conveyor allowing oversize material to be either circulated back into the crusher, or stockpiled
- Ability to raise and lower product conveyor
- Excellent under crusher clearance
- Quick set up times
- Simple intuitive operation
- PLC control system with auto start facility
- EvoQuip T-Link telemetry as standard

JAW CRUSHER

Crusher type:	Single toggle Jaw with hydraulic CSS adjustment
Feed opening:	820mm x 550mm (32" x 22")
Bearings:	Self aligning spherical roller
Lubrication:	Grease
Drive:	V belts with screw adjust tensioner
Minimum setting:	25mm (1") CSS 40mm (1.5") CSS Hard Rock
Maximum setting:	100mm (4") CSS standard jaws (HA)
Hydraulic adjustment:	Hydraulically adjusted C.S.S using wedge system.
Throw/Stroke:	Min CSS - 27mm Max CSS - 38mm

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.



CHAMBER FEATURES

- Hydrostatic with full reverse crush capability and unblock functionality
- Quick & easy setting adjustment
- Drawback rod hydraulic adjustments not required during setting changes
- Excellent under-crusher clearance

JAW CHAMBER LINERS



STANDARD

Premium Super tooth jaw plates
Quarry Applications



OPTION

Premium Multitooth jaw plates
Recycling Applications



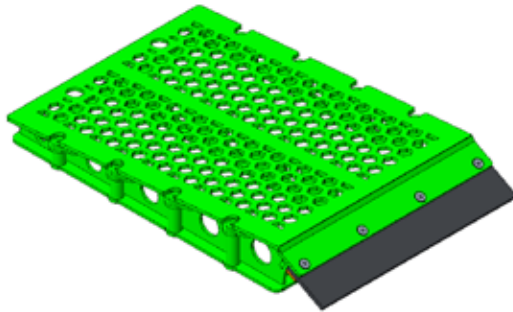
HOPPER

Hopper type:	Combined Hopper/Feeder
Loading Height:	3m (9' 10")
Hopper width:	2m (6' 7")
Hopper capacity:	2.6m ³ (3.4 yd ³)
Hopper body:	10mm thick wear resistant steel (wear plate 400) Asymmetric design to aid material flow

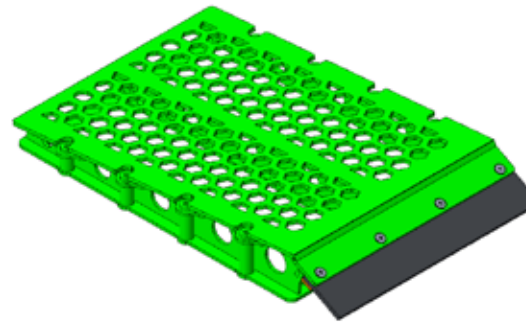


VIBRATING GRIZZLY FEEDER

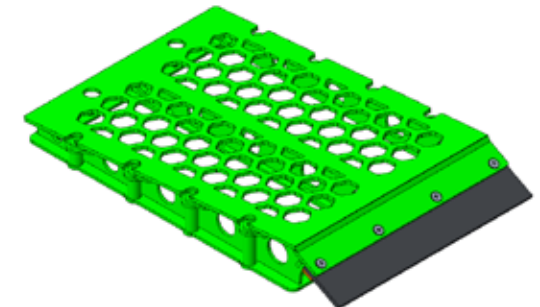
SCREEN MEDIA



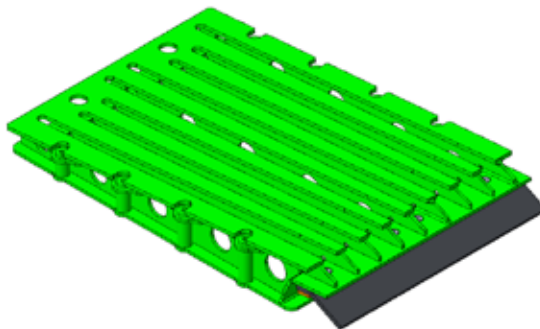
40mm punchplate



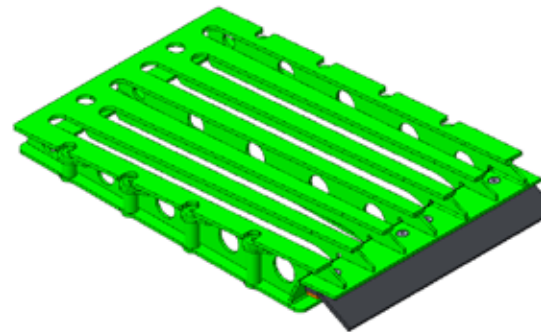
50mm punchplate



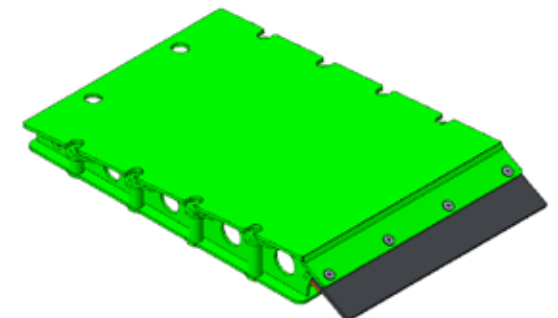
75mm punchplate



50mm grizzly



75mm grizzly



Blanking Plate

PRODUCT CONVEYOR

Conveyor type: Troughed belt conveyor
Belt width: 900mm (36")
Belt type: EP500/3, 8+2 - 8mm top
& 2mm bottom cover, vulcanised
Discharge height: 3m (9' 10")
Drive: Direct drive hydraulic motor
Belt adjustment: Tail Drum Screw adjusters
Lubrication: Ground level grease points

- Hydraulic folding head section for transport
- Hydraulic raise and lower of conveyor
- Excellent under crusher clearance
- Variable speed



POWER UNIT

Tier 3 Equivalent: CAT C71, 140kW (188hp)

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: 1800 - 2000 rpm

Chamber drive: Hydrostatic

Fuel tank capacity: 300 L (80 US GAL)

Hydraulic tank capacity: 310 L (82 US GAL)



Tier 4F/Stage V: CAT C4.4, 140 kW (188hp)

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: 1800-2000 rpm

Chamber drive: Hydrostatic

Fuel tank capacity: 300 L (80 US GAL)

Hydraulic tank capacity: 310 L (82 US GAL)

Urea tank capacity: 19 L (5 US GAL)



Note: Telemetry available as standard

TRACKS

BISON 220

Type:	Heavy duty bolt on tracks
Sprocket centers:	2.95m (9' 8")
Track width:	400 mm (1' 4")
Climbing grade:	30° maximum

BISON 220R

Type:	Heavy duty bolt on tracks
Sprocket centers:	3.24m (10' 8")
Track width:	400 mm (1' 4")
Climbing grade:	30° maximum



BISON 220R OVERVIEW

The optional 'R' section (recirculating conveyor) of the Bison 220R allows the required product specification to be achieved, with oversize material either being recirculated back to the crusher or stockpiled.

FEATURES

- 8' x 4' Single Deck Screenbox
- 500mm (20") recirculating conveyor
- 1000mm wide fines conveyor
- Recirc can slew to act as Stockpiler
- Quick Detach Afterscreen system can be removed if customer wants to transport it separately or use the machine as a straight through variant
- Afterscreen system common and interchangeable with Cobra 230R impact crusher
- Max screen mesh - 63mm



AFTERSCREEN

2.44m x 1.2m (8' x 4') single deck screen Side tensioned mesh

Screen Angle: 25 degrees

Screen Speed: 1100 rpm

Screen Stroke: 8mm

Screen can be lowered to horizontal to ease mesh change and maintenance



TRANSFER CONVEYOR

Belt width: 500mm (20")
Belt specification: EP500/3, 5 + 1.5
Belt Speed: Variable speed



OVERSIZE CONVEYOR

OVERSIZE RECIRCULATING CONVEYOR

Belt width: 500mm (20")

Belt specification: EP315/3 3+1.5 with 15mm chevrons

Belt Speed: Variable speed

Discharge height in stockpile mode: 3m (9' 10")

Conveyor can hydraulically slew to enable customer to stockpile oversize material

Conveyor detaches as part of the Afterscreen system



FINES CONVEYOR

Belt width: 1000mm (40")
Belt specification: EP500/3, 5 + 1.5
Discharge height: 2.5m (8' 2")



(OPTION) BYPASS CONVEYOR

Belt width: 500mm (20") wide
Belt type: EP400/3, 4 + 2
Discharge height: 2.4m (7' 10")
Position: Discharge on right hand side of plant

- Hydraulically folds for transport



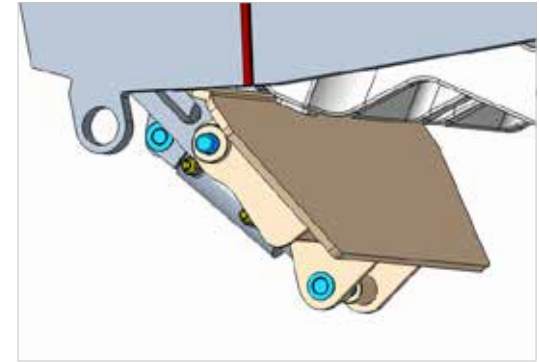
OPTIONS



HOPPER BOLT ON PROTECTOR PLATES



JAW LEVEL SENSOR



**UNDER CRUSHER HYDRAULIC
DEFECTOR PLATE.**



ALUMINUM DUST COVERS



**BELT WEIGHER FITTED TO MAIN
CONVEYOR**



HEAVY DUTY RIP STOP BELT

OPTIONS



SINGLE AND TWIN POLE MAGNET



**WATER PUMP FOR DUST
SUPPRESSION SYSTEM**



REMOTE MOUNTED FUEL FILTERS



PREPPED FOR AFTERSCREEN SYSTEM

WEIGHTS & DIMENSIONS

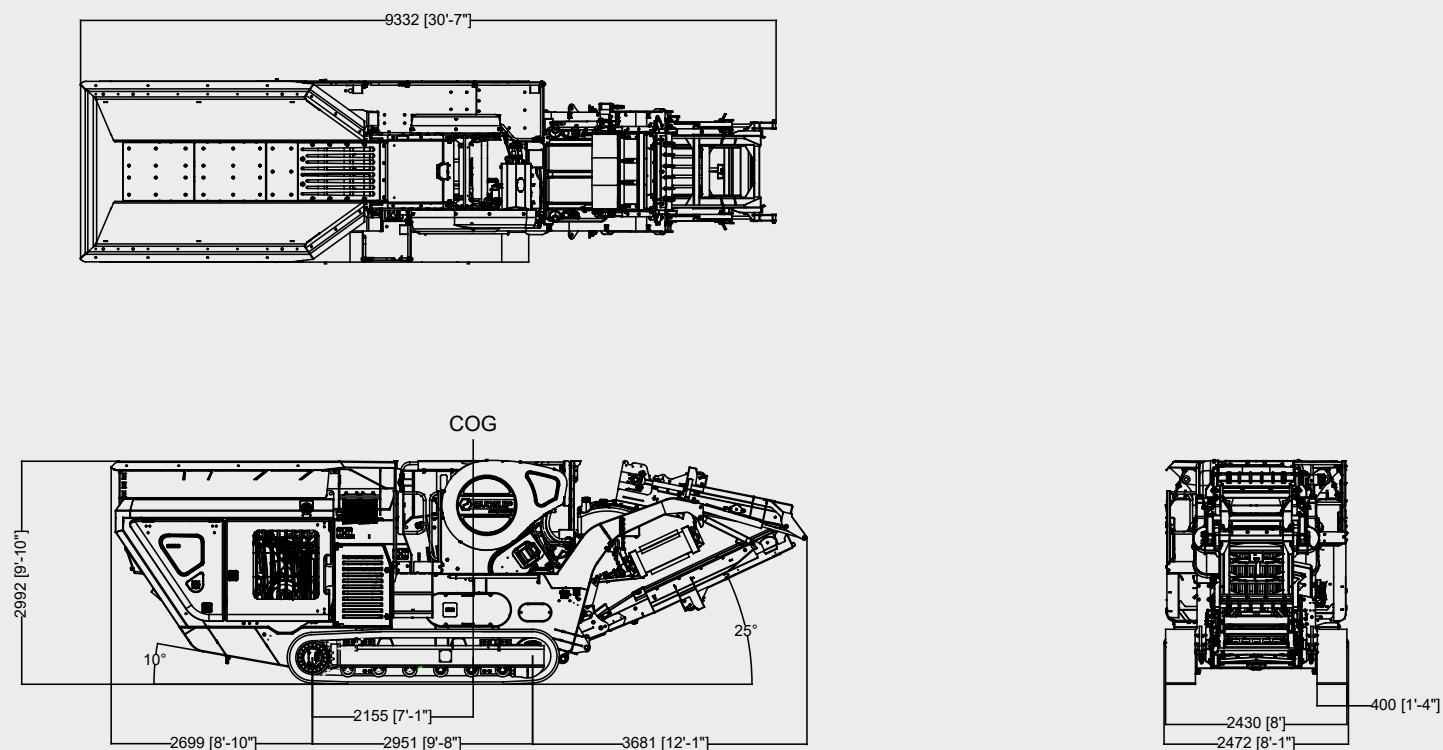
BISON 220 - TRANSPORT (NO SIDE CONVEYOR)

Length: 9.3m (30' 7")

Width: 2.5m (8' 1")

Height: 3m (9' 10")

Weight: 23,237kg (51,228lbs)
(without side conveyor and magnet)



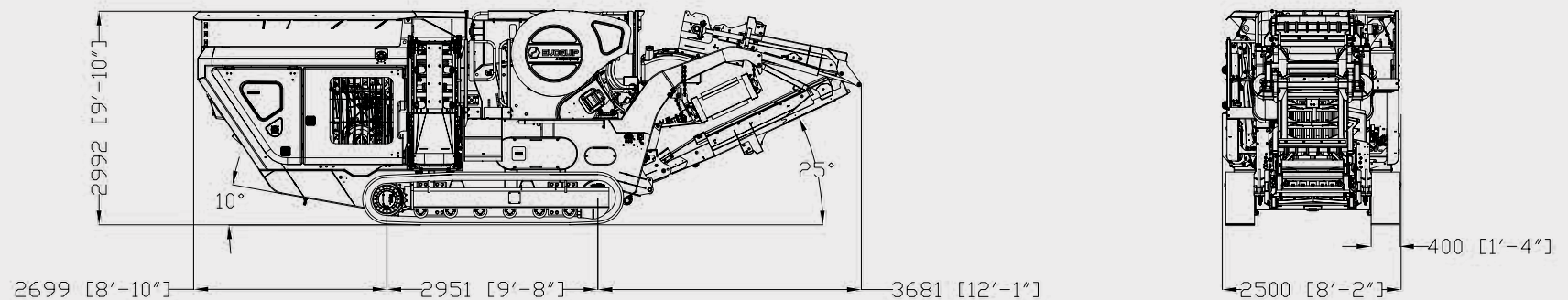
BISON 220 - TRANSPORT

Length: 9.3m (30' 5")

Width: 2.5m (8' 2")

Height: 3m (9' 10")

Weight: 24,517kg (54,050lbs)
(with side conveyor and magnet)



WEIGHTS & DIMENSIONS

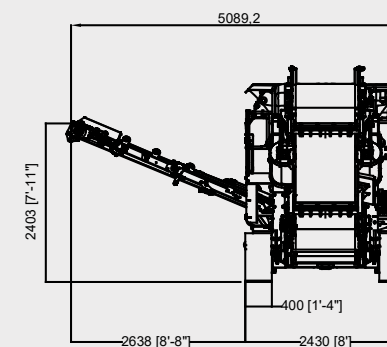
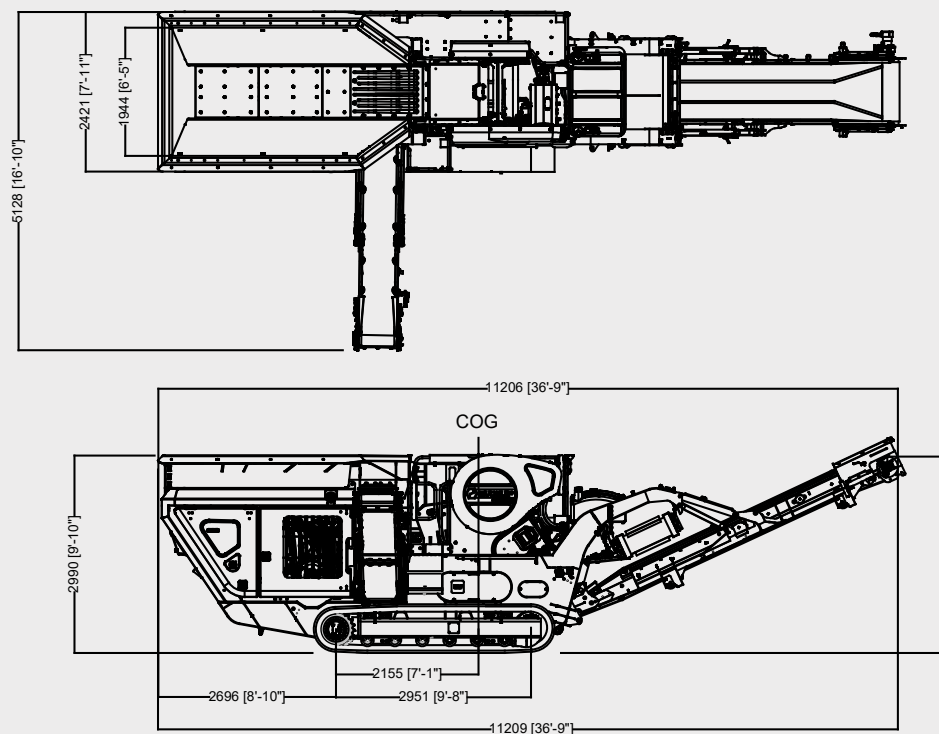
BISON 220 - WORKING (WITH SIDE CONVEYOR)

Length: 11.2m (36' 9")

Width: 5.1m (16' 7")

Height: 3m (9' 10")

Weight: 24,517kg (54,050lbs)



WEIGHTS & DIMENSIONS

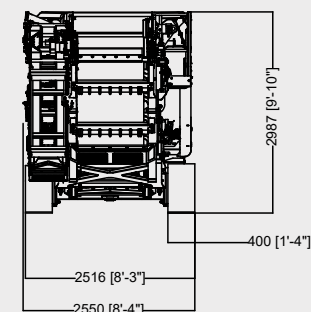
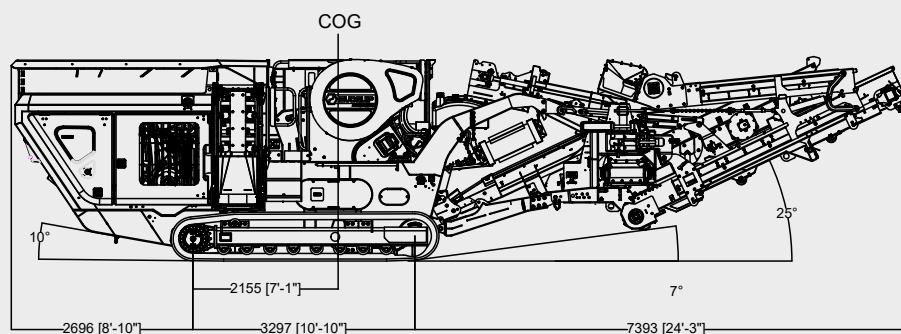
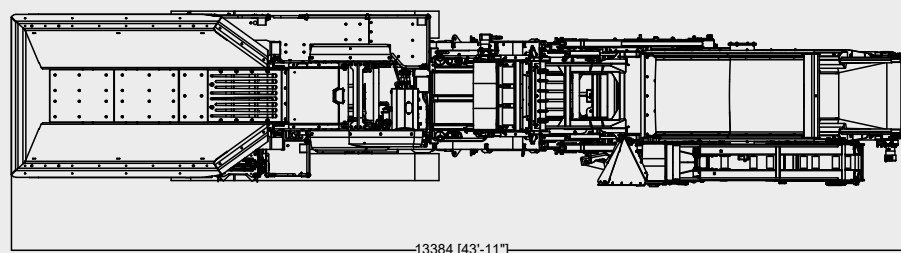
BISON 220R - TRANSPORT

Length: 13.4m (43' 11")

Width: 2.55m (8' 4")

Height: 3m (9' 10")

Weight: 30,425kg (67,075lbs)
(Includes side conveyor and magnet)



WEIGHTS & DIMENSIONS

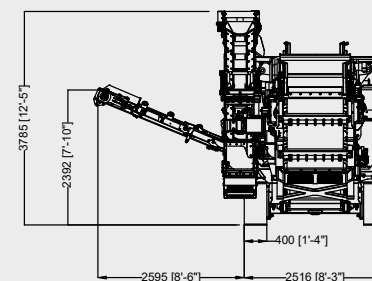
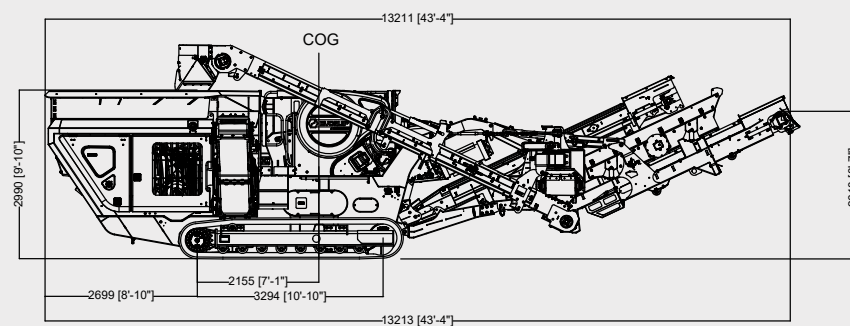
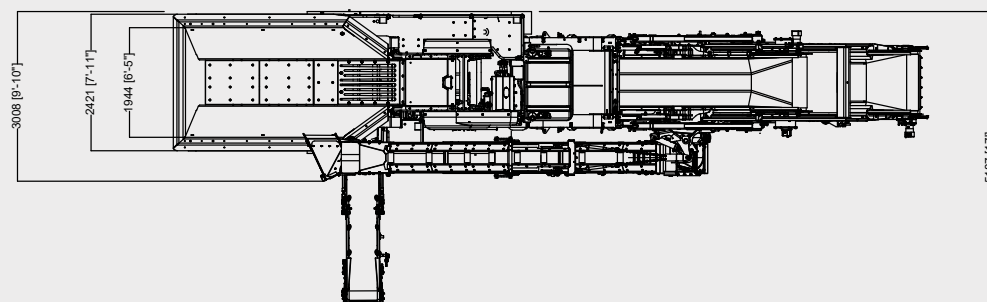
BISON 220R - WORKING

Length: 13.2m (43' 4")

Width: 5.2m (17')

Height: 3.8m (12' 5")

Weight: 30,425kg (67,075lbs)



WEIGHTS & DIMENSIONS

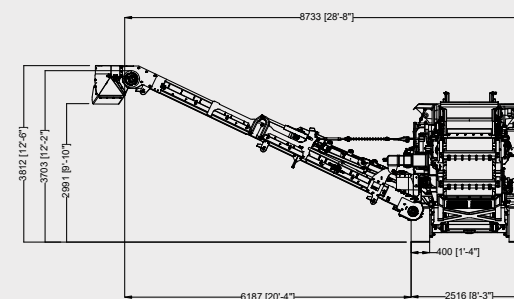
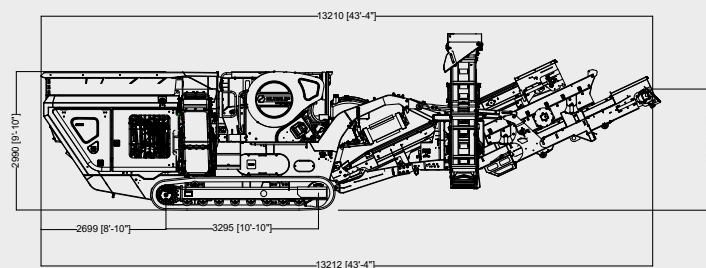
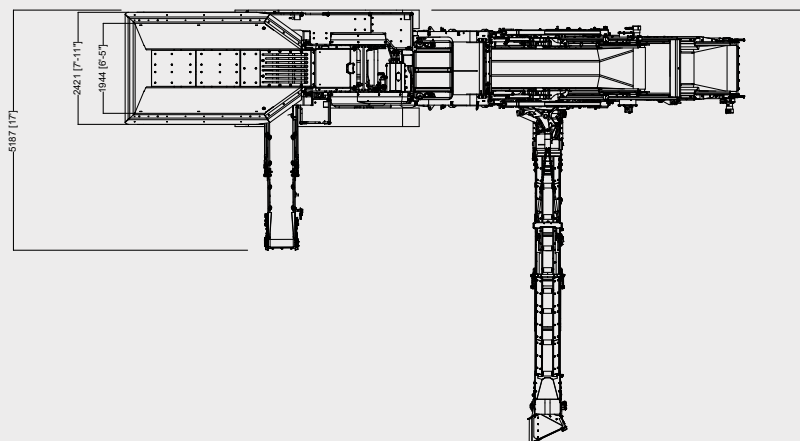
BISON 220R - STOCKPILE MODE

Length: 13.2m (43' 4")

Width: 9.4m (30' 8")

Height: 3.8m (12' 6")

Weight: 30,425kg (67,075lbs)



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