



FALCON 820

2 DECK FINISHING SCREEN

TECHNICAL
SPECIFICATION

OVERVIEW

1

HOPPER/FEEDEER

- 2.9m³ (3.8yd³) Hopper Capacity
- 1.1m x 2.6m (3'7" x 8'6") Hopper opening
- Removable hopper bin

2

ENGINE OPTIONS

- Tier 3 - Cat 4.4 62kW LRC
- Tier 4 Final/Stage V - Cat C2.2 55kW

3

SCREEN

- 2.4m x 1.2m (8' x 4') double deck two bearing screen
- Adjustable screen angle 25-35°

4

CONTROL SYSTEM

- Simple intuitive operation

5

CONVEYORS

- 800mm (32") wide main conveyor
- 1000mm (40") wide fines conveyor with Max. discharge height of 2.93m (9' 6")
- 650mm (26") wide Mid-grade conveyor with max 3.4m (11' 2") discharge height
- 650mm (26") wide Over-size conveyor with max 3.4m (11' 2") discharge height

6

TIPPING GRID (OPTIONAL)

- Target area – 1.7m wide x 3.9m long (5'6" x 12'9")
- 5.18m³ (17') Hopper & grid capacity
- Feed in height 3m (9' 10")
- Variable working angle



UP TO
200
TONNES PER HOUR
(220 US TPH)

OVERVIEW

- The Falcon 820 combines scalping, screening and stockpiling into one self contained unit
- Featuring a 2.4m x 1.2m (8' x 4') Double deck two bearings screen box
- Capable of operating in multiple applications and processing materials including sand and gravel, blasted rock, crushed stone, coal, topsoil and demolition waste.

FEATURES & BENEFITS

- Ability to hydraulically adjust the screen angle (between 25° and 35°) allows operator to optimise material classification and throughput
- Maximum utilisation of the two decks provide ultra efficient screening capacities even at small aggregate sizes.
- Tracked mobility and hydraulic folding product conveyors allow for ease of movement and rapid set up.
- Compact Transport envelope.
- Excellent access for maintenance.



HOPPER

- 2.9m³ Hopper bin capacity as standard
- Excellent access to main conveyor tail section
- Removable hopper bin for direct feed applications
- Surge gate at opening to regulate feed onto screenbox
- Hopper designed to keep constant loading
- Jacking legs under hopper



CONVEYORS

MAIN CONVEYOR

800mm (32") wide conveyor featuring:

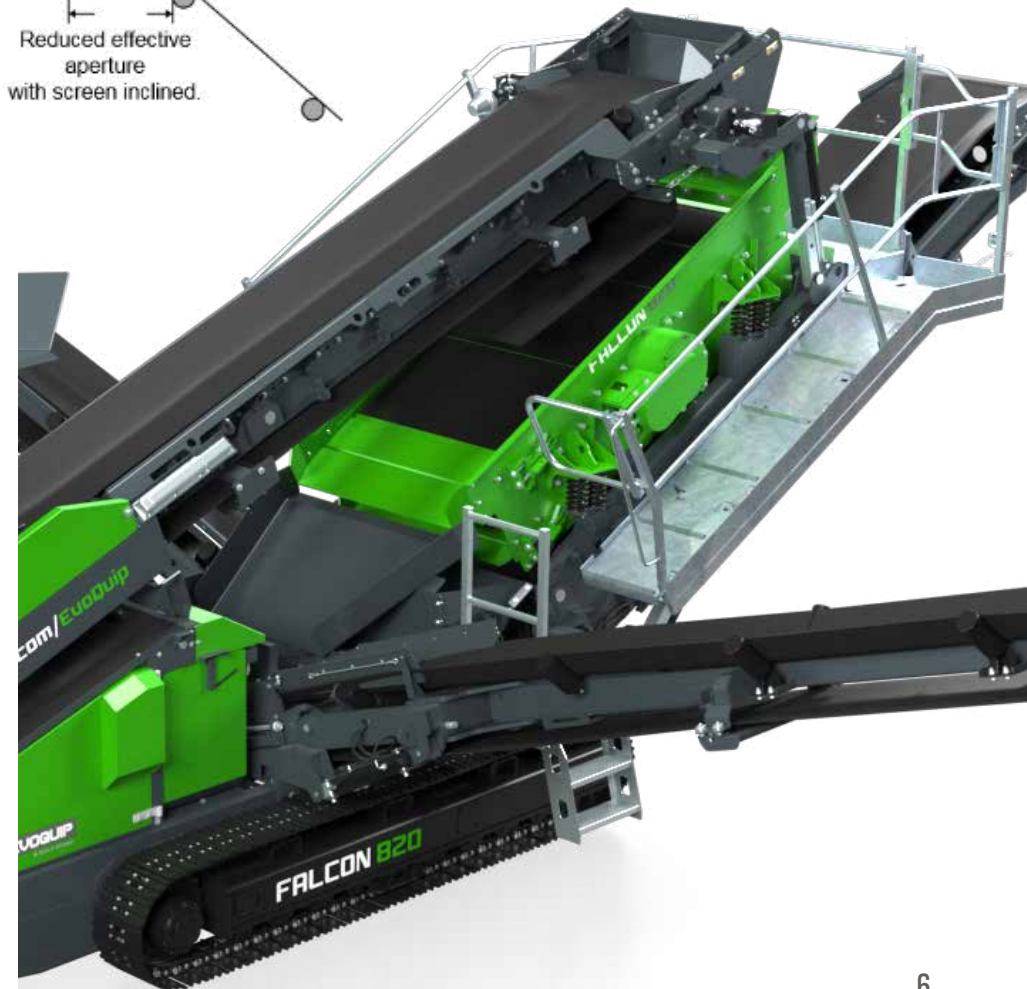
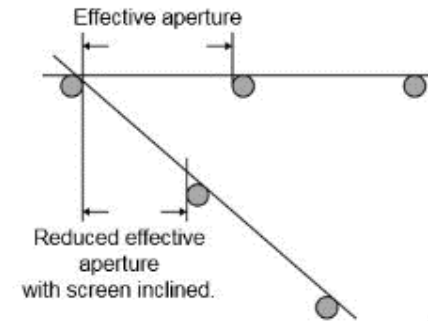
- Belt specification: Plain 3 ply belt
- Fully Skirted at hopper and slider pad design on upper sections
- Adjustable speed
- Fully adjustable spreader plate
- Variable Belt Speed: 18-35 m/min



SCREENBOX

DOUBLE DECK

- **Versatile and configurable 2 bearing double deck incline screen:**
 - Top and Bottom deck - 2.4m x 1.2m (8' x 4') one 8' x 4' panel.
- Total screening area: 5.76m² (64ft²)
- Top and bottom deck end tensioned
- Screen speed: 1150 rpm
- 6mm throw and 4.5g @ 1150 rpm
- Adjustable screen angle 25-35°
- Hydraulic raise lower of main conveyor head section for mesh access
- Wear lined Breaker box design to help material spread and mesh wear
- Optional galvanised walkway
- Speed Harp media optional on bottom deck



CONVEYORS

OVERSIZE & MIDGRADE

- 650mm (26") wide 2 ply chevron belt
- Max discharge height: 3.4m (11' 2")
- Stockpile capacity: 58m³ (76yd³)
- Variable speed: 54-97m/min
- Variable working angle from 21°- 24°
- Hydraulic folding for transport



CONVEYORS

FINES CONVEYOR

- 1000mm (40") wide 3 ply plain belt
- Max Discharge Height: 2.9m
- Stockpile capacity: 38m³ (49yd³)
- Variable angle 18° - 25°
- Fixed belt speed: 81m/min
- Rosta scraper on head drum
- Hydraulic folding for transport



POWER UNIT

TIER 3

- Cat 4.4
- Engine Power: 62kW (83.1Hp)
- Engine Speed: 1900rpm

TIER 4 FINAL / STAGE V

- CAT C2.2
- Engine Power: 55kW (73.8Hp)
- Engine Speed: 1900rpm



Note: Telemetry standard on T4F/Stage V

**Engine max power given, power at working speed may differ.*



POWER UNIT

- User friendly power-unit
- Engine access to both sides of the engine
- Visual Electronic Control
- Hydraulic Tank: 300 litres / 79 US gal
- Fuel Tank: 145 litres / 38 US gal



TRACKS

- Shoe Width: 300mm (11'8")
- Sprocket Centres: 2.94m (9' 6")
- Speed: 1.5 km/h
- Gradeability: 17°
- Rake Angle: Feeder end 8 degrees
Fines end 10 degrees



OPTIONAL TIPPING GRID

- 3.9m (12' 9") long tipping grid for primary scalping
- Target area – 1.7m wide x 3.9m long (5' 6" x 12' 9")
- Feed in height with grid fitted 3m (9' 10")
- Grid opening – 1.25m wide x 3.1m long (4' x 10' x 10)
- Radio remote controlled as standard
- Variable working angle from 5 - 15 deg
- 100mm (4") grid aperture
- Hopper & grid capacity 5.18m³



OPTIONS

STAGE V ENGINE



4" TIPPING GRID



WALKWAYS & LADDERS



OPTIONS

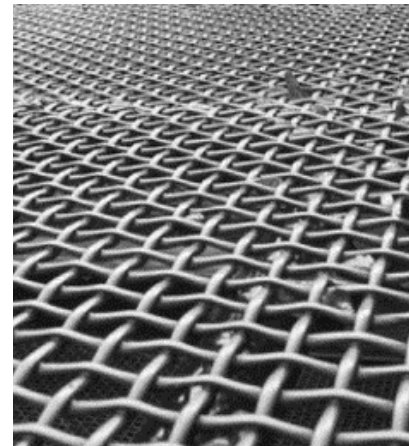
TRACKING RADIO REMOTE



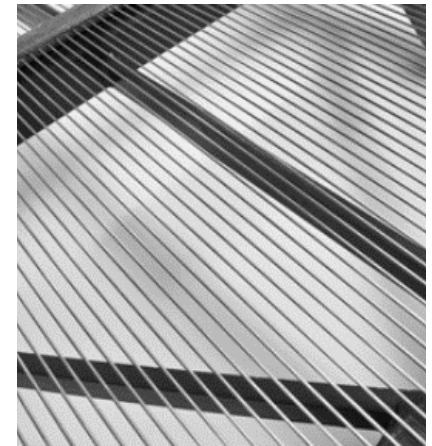
HYDRAULIC OIL GRADE 68 (HOT CLIMATE)



TOP & BOTTOM DECK MESH



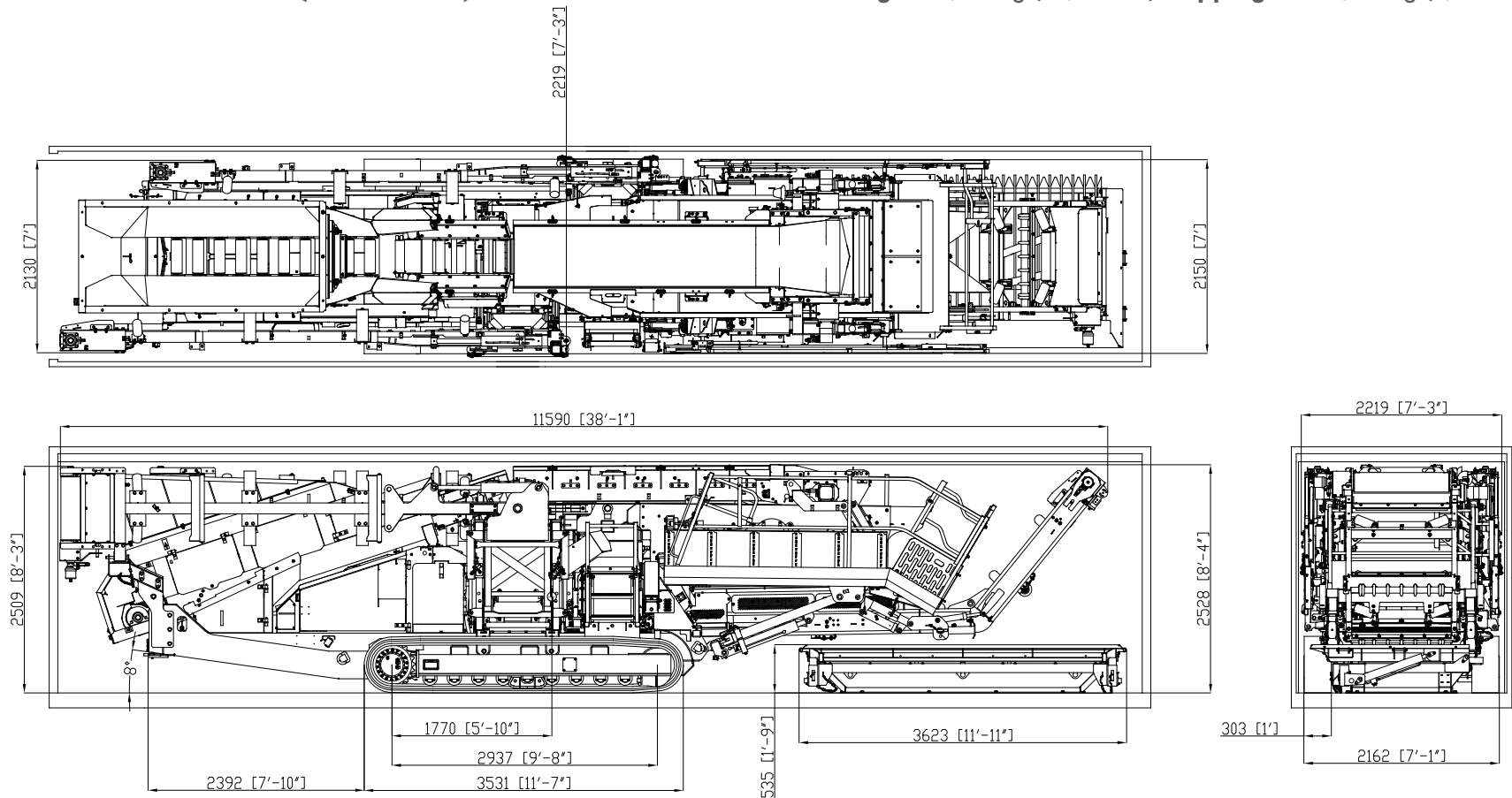
BOTTOM DECK SPEED HARP



WEIGHTS & DIMENSIONS

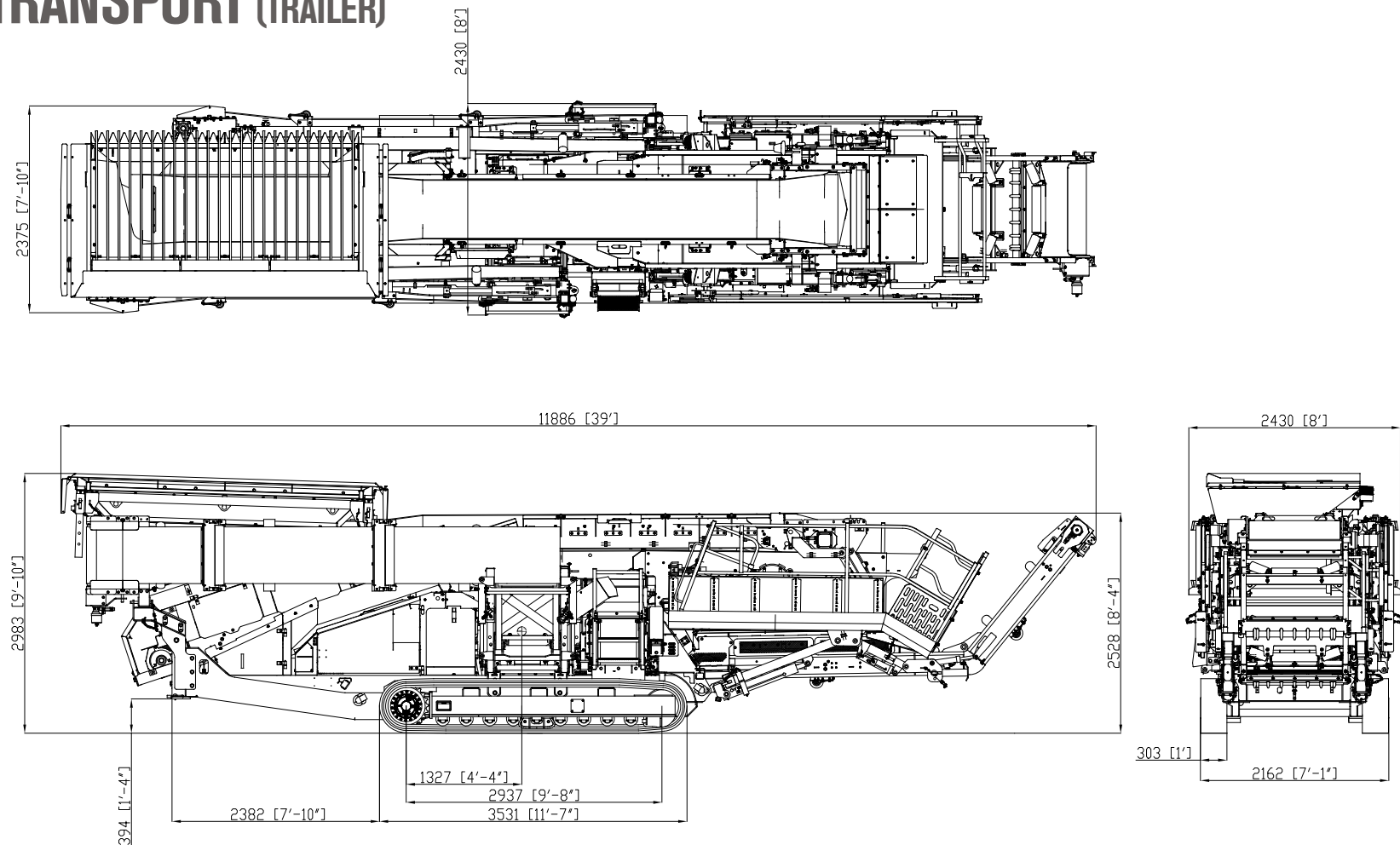
TRANSPORT (CONTAINER)

Weight: 15,900kg (35,054lbs) Tipping Grid: 1,350kg (2,976lbs)



WEIGHTS & DIMENSIONS

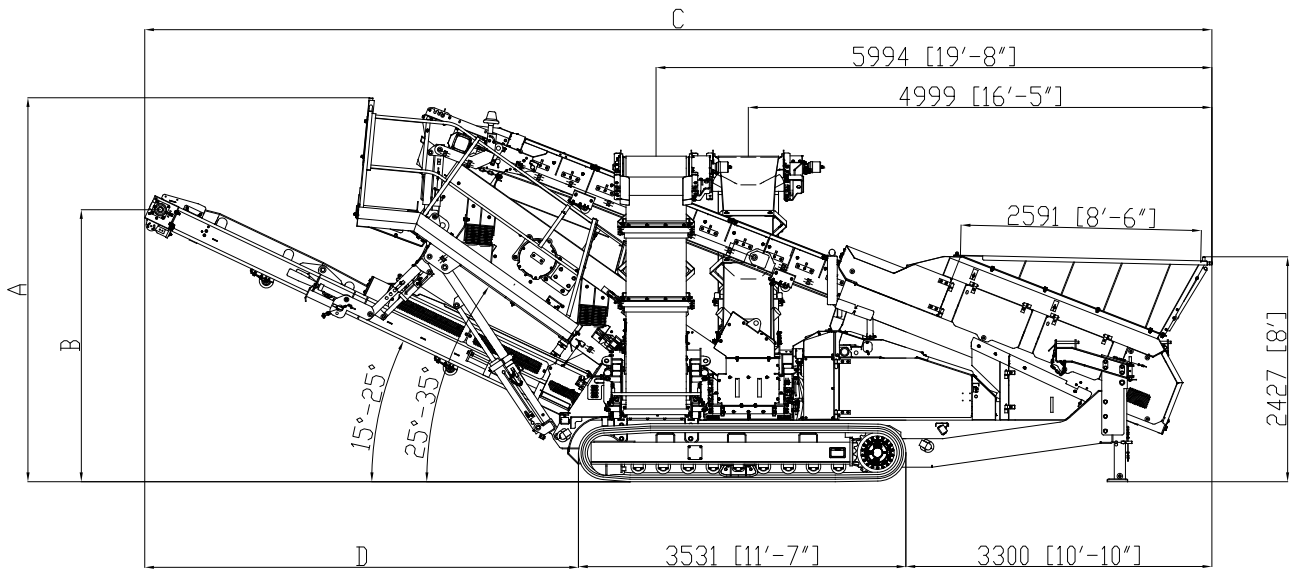
TRANSPORT (TRAILER)



WEIGHTS & DIMENSIONS

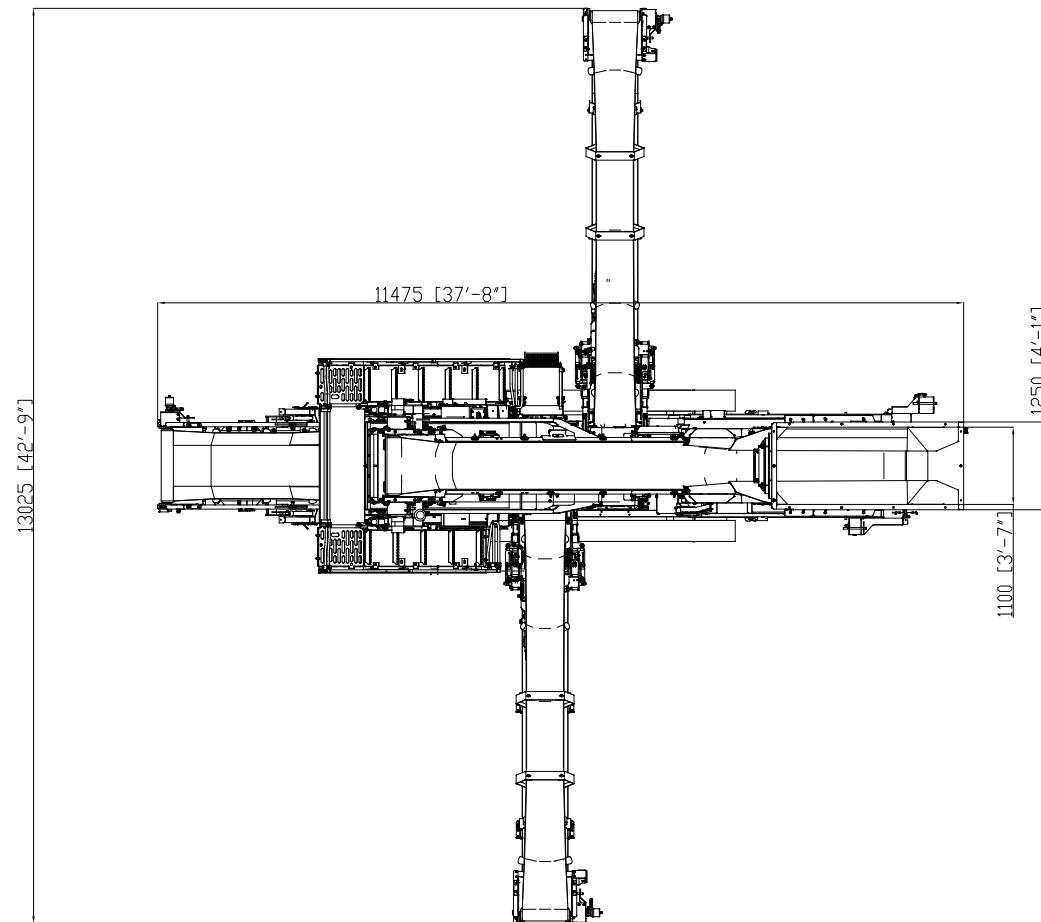
SIDE VIEW WORKING (NO TIPPING GRID)

DIMENSION (MM)	SCREEN WORKING ANGLES (DEGREES)				
	25	28	30	32	35
A	3647	3779	3904	4026	4142
B	2177	2372	2560	2750	2934
C	11661	11637	11605	11562	11511
D	4961	4900	4832	4755	4672



WEIGHTS & DIMENSIONS

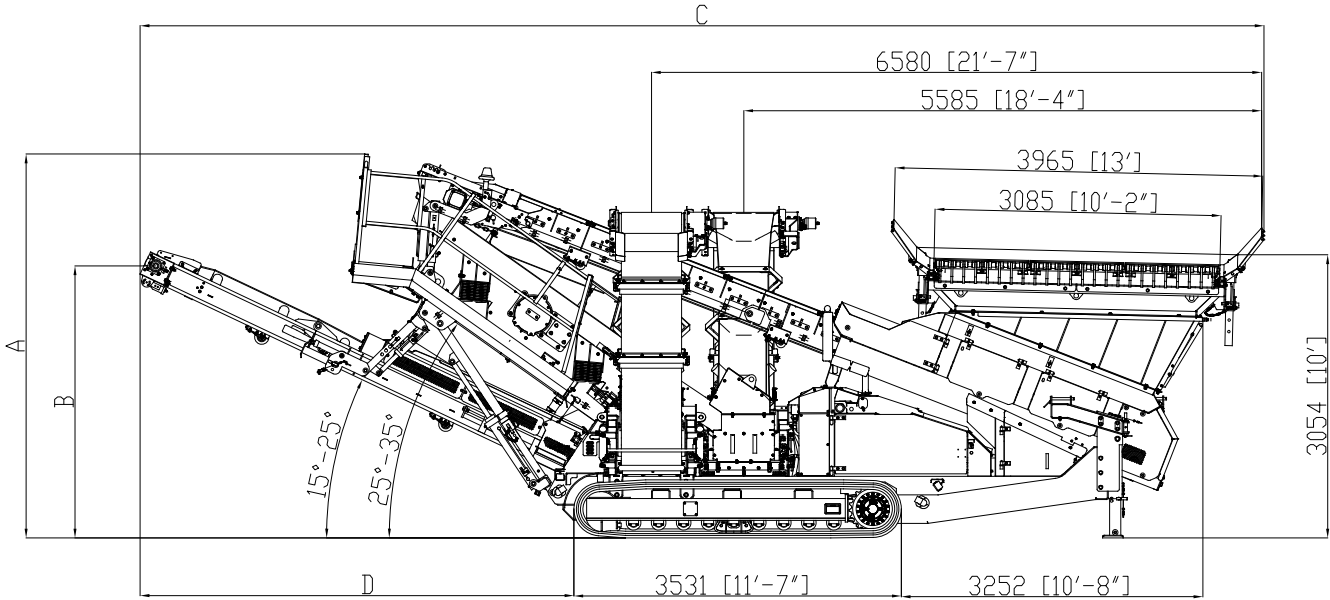
TOP VIEW WORKING (NO TIPPING GRID)



WEIGHTS & DIMENSIONS

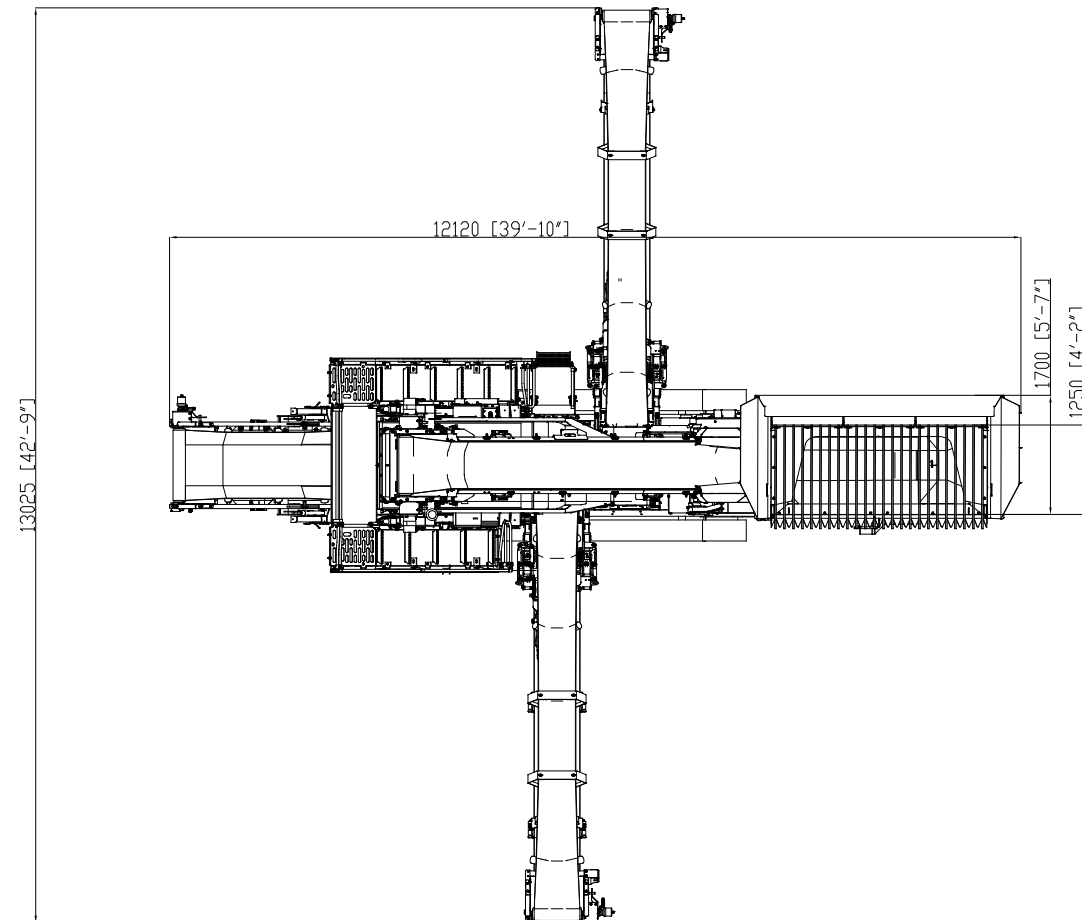
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C	12274	12250	12218	12175	12120
D	4961	4900	4832	4755	4672



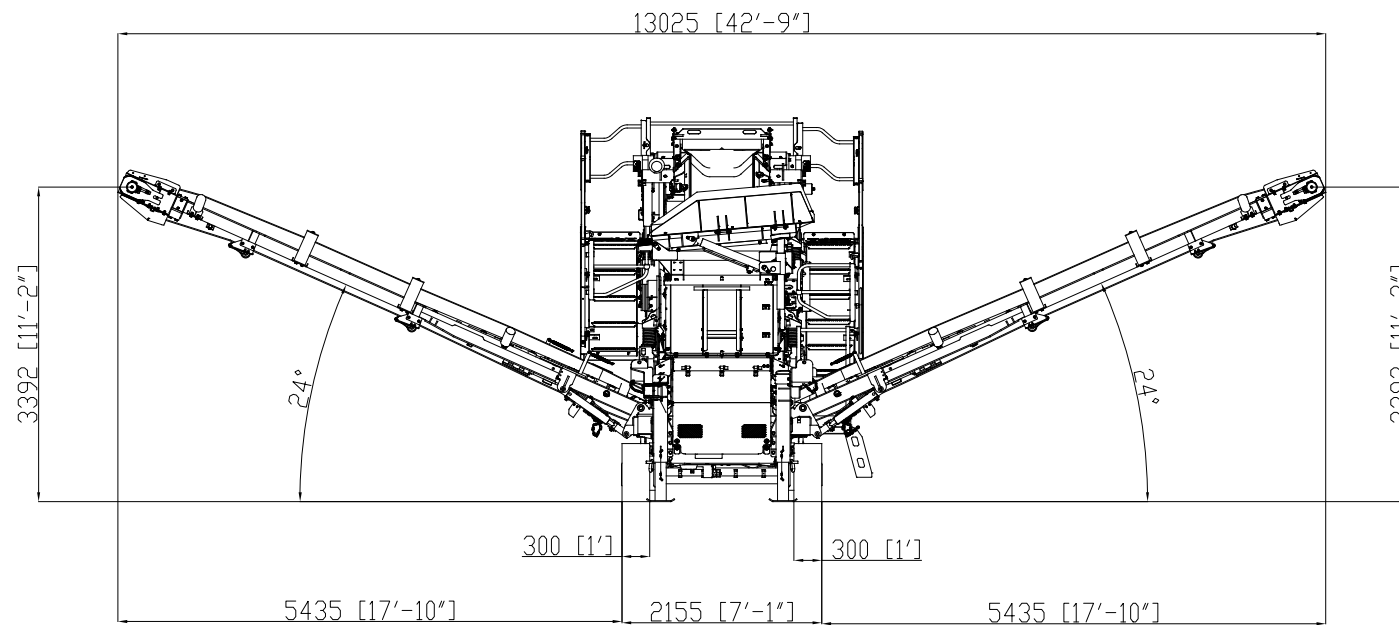
WEIGHTS & DIMENSIONS

TOP VIEW WORKING (TIPPING GRID)



WEIGHTS & DIMENSIONS

END VIEW WORKING



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