



# FALCON 1220

2 DECK SCREEN

TECHNICAL  
SPECIFICATION

# OVERVIEW

1

## HOPPER/FEEDER

- 8m<sup>3</sup> (10.5yd<sup>3</sup>) Hopper Capacity
- 1.05m (42") wide belt feeder
- Variable speed

2

## ENGINE OPTIONS

- Tier 3 - CAT C4.4  
83kW (111.3Hp) @2200rpm
- Stage 3A - CAT C4.4  
98.1kW (131Hp) @1800rpm
- Tier 3 Option - CAT C4.4 LRC (Optional)  
97kW (130Hp) @2200rpm
- Tier 4 Final - CAT C4.4  
82kW (110Hp) @2200rpm
- Stage V - CAT C4.4  
102kW (137Hp) @2200rpm

3

## SCREEN

- Top deck: 3.66m x 1.53m  
(12' x 5')
- Bottom deck: 3m x 1.53m  
(10' x 5')
- Variable screen angle

4

## CONVEYORS

- 1m (40") wide main conveyor
- 1.2m (48") wide fines conveyor with standard discharge height of 3.86m (12' 8")
- 650mm (26") wide Mid-grade conveyor with max 4.86m (15' 11") discharge height
- 650mm (26") wide Over-size conveyor with max 4.86m (15' 11") discharge height

5

## TIPPING GRID

- 4.25m (14ft) long tipping grid as standard
- Feed in width 4.77m (15' 8")

6

## CONTROL SYSTEM

- Simple intuitive operation



UP TO  
**275**  
TONNES PER HOUR  
(303 US TPH)

# OVERVIEW

- The Falcon 1220 combines scalping, screening and stockpiling into one self contained unit
- Featuring a 3.65m x 1.5m (12' x 5') double deck screen (bottom deck sized at 10 x 5')
- Capable of operating in multiple applications and processing materials including sand and gravel, blasted rock, crushed stone, coal, topsoil and demolition waste.
- Remote tipping reject grid, hydraulic screen tensioning of bottom deck mesh and three on-board hydraulic folding conveyors are standard.
- Options include double deck vibrating grid and wedge tensioning for top deck mesh.

## FEATURES & BENEFITS

- The double deck screen box has all around catwalk access allowing for ease of operational maintenance and media changes.
- Tracked mobility and hydraulic folding product conveyors allow for ease of movement and rapid set up.
- Maximum utilisation of the two decks provide ultra efficient screening capacities even at small aggregate sizes.
- Ability to hydraulically adjust the screen angle (between 18° and 37°) allows operator to optimise material classification and throughput

# TIPPING GRID

- 4.25m (14ft) long tipping grid as standard for primary scalping
- Optional 3.65m (12ft) long, complete with hopper inlet chute for crusher feed
- Feed height (to top of tipping grid): 3.46m (11' 4")
- Feed in width (tip to tip of grid wing plates): 4.77m (15' 8")
- Radio remote controlled as standard
- Adjustable angle
- Standard 100mm (4") grid aperture with optional 150mm (6") available



# BELT FEEDER

- 4.25m (14ft) long hopper and belt feeder
- Feed height (no grid fitted): 2.31m (7' 7"). Note: Hopper dead plate fitted as standard with no grid
- 8m<sup>3</sup> (10.5yd<sup>3</sup>) hopper capacity
- 1050mm (42") wide feeder belt
- Chain Drive via high torque motor
- Variable Speed: 0-16m p/min (0- 53' per min)



# HOPPER

- Weld in hopper design
- Wide opening at feeder discharge
- Excellent clearance between feeder discharge and main conveyor
- Excellent access to Belt feeder



# SCREENBOX

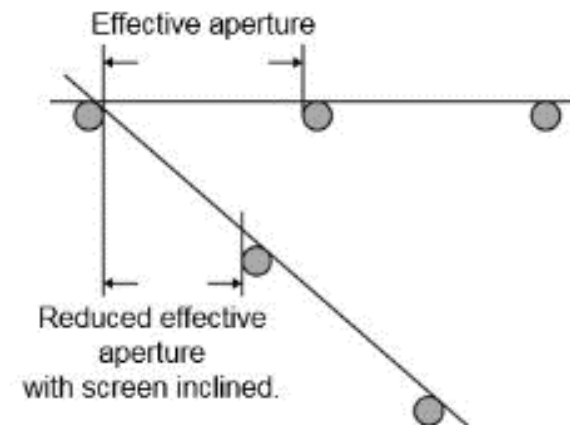
## DOUBLE DECK

- **Versatile and configurable 2 bearing double deck incline screen:**
  - 3.66m x 1.53m (12' x 5') top deck  
three 4' x 5' panels
  - 3.00m x 1.53m (10' x 5') bottom deck screen  
two 5' x 5' panels
- Total screening area: 10.1 m<sup>2</sup> (110ft<sup>2</sup>)
- Side tensioned top deck (bolted clamp design) as standard; Quick Wedge tensioning optional
- End tensioned bottom deck with hydraulic screen tensioning as standard
- Screen speed: 1200 - 1250rpm
- Standard screen stroke: 6mm (1/4")



# SCREENBOX

- Variable Screen Angle (hydraulically adjustable)
- Direct hydraulic drive as standard
- Abrasion resistant material impact plate to protect screen media from wear
- All round galvanised catwalk access (both sides and top end of screen) provide excellent access for media changes
- Screen rotation option





# CONVEYORS

## MAIN CONVEYOR

### 1m (40") wide conveyor featuring:

- Belt specification: Plain 3 ply belt
- Direct hydraulic drive via high torque motor
- Belt Speed: 92 mpm (302' pm)
- Full length of conveyor steel skirted
- Lined Main Conveyor Spreader Plate option
- Dust cover option



# CONVEYORS

## OVERSIZE & MIDGRADE

- 650mm (26") wide 2 ply chevron belt
- Max discharge height: 4.86m (15' 11")
- Stockpile capacity: 170m<sup>3</sup> (223yd<sup>3</sup>)
- Variable speed (0-103mpm; 0-338' per min) via high torque hydraulic motor
- Working Angle: 24°
- Hydraulic folding for transport



# CONVEYORS

## FINES CONVEYOR

- Broad 1200mm (48") wide 3 ply fines belt
- Standard Discharge Height: 3.86m (12' 8") – approx. 25°
- Stockpile capacity: 86m<sup>3</sup> (112yd<sup>3</sup>) – approx. 24°
- Ability to vary conveyor working angle: 25° Max
- Direct hydraulic drive via high torque motor
- Fixed belt speed: 92mpm (302' per min)
- Rosta scraper on head drum
- Dust cover option



# POWER UNIT

## TIER 3

- CAT C4.4
- Engine Power: 83kW (111.3Hp)
- Engine Speed: 2200rpm

## TIER 3 OPTION

- CAT C4.4 LRC (Optional)
- Engine Power: 97kW (130Hp)
- Engine Speed: 2200rpm

## TIER 4 FINAL

- CAT C4.4
- Engine Power: 82kW (110Hp)
- Engine Speed: 2200rpm

## STAGE V (EU REGION ONLY – CHECK LEAD TIME)

- CAT C4.4
- Engine Power: 102kW (137Hp)
- Engine Speed: 2200rpm



**Note: Telemetry available as standard on all configurations except the Tier 3 Mechanical Engine (83kW / 111.3Hp)**

# POWER UNIT

- User friendly power-unit
- Engine access to both sides of the engine
- Visual Electronic Control
- Hydraulic Tank: 450 litres / 99 UK gal / 119 US gal
- Fuel Tank: 336 litres / 74 UK gal / 88 US gal)



# TRACKS

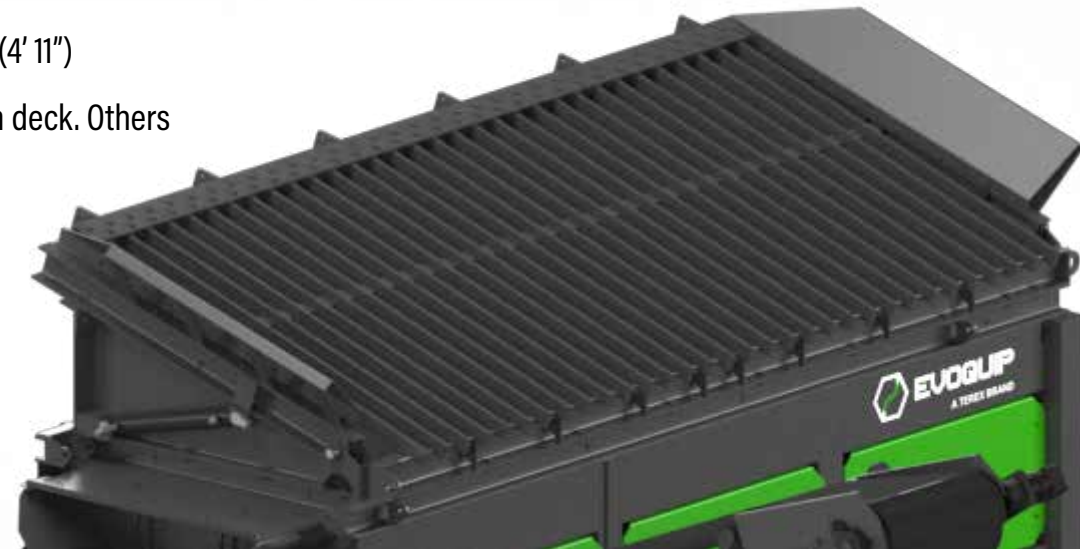
- Shoe Width: 400mm (16")
- Sprocket Centres: 2.92m (9' 7")
- Speed: 0.9km/h
- Gradeability: 27°
- Rake Angle: 8°



# OPTIONS

## TIPPING GRID

- Deck vibrating grid complete with radio controlled tipping bofor grid
- Double hopper inlet chute for crusher feed as standard
- Target area: 3.91m (12' 10") long x 2.42m (7' 11") wide
- 100mm (4") aperture Bofor Grid as standard on top deck
- 125mm (5") and 150mm (6") Bofor Grid are available instead of standard offering
- Bottom deck screen size: 2 panels of 1.9m (6' 3") x 1.5m (4' 11")
- 38mm (1.5") aperture mesh fitted as standard in bottom deck. Others available on request
- Working angle: 13° to 22° (hydraulically adjustable)
- Feed height to top of Vibrating Grid: 3.35m (10' 12")
- Increase in transport height: 330mm (13")
- Increase in machine weight: +3750Kgs (8,267lbs)



# OPTIONS

## Screenbox Options

- Quick wedge tensioning for top deck media (instead of bolted clamp design)
- Various types of top deck media
- Various types of bottom deck media (Mesh / speed harp)
- Screen-box rotation reversal control

## Conveyor Options

- Main conveyor spreader plate lined wear resistant steel
- Canvas dust covers on both main and fines conveyor

## Tipping Grid Options

- 3.65m (12') Radio control tipping grid complete with hopper inlet chute for crusher feed
- No grid (Note: hopper dead plate fitted as standard when this option is selected)
- 150mm / 6" aperture bofor grid available instead of standard offering

## Other

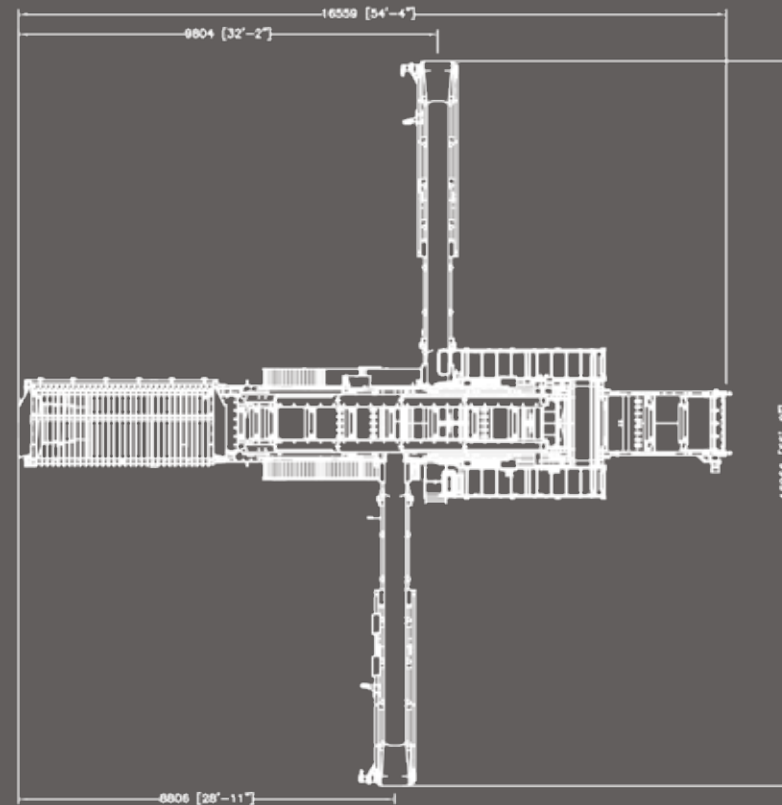
- Radio remote control of tracks
- 68 grade hydraulic oil
- One off standard stockpile drive – Approx. 30 Litres/min (only available when no vibrating grid is fitted)
- OR one off dedicated stock-pile drive – Approx. 55 Litres/min
- Shredder at belt-feeder discharge is available to be ordered as a non standard option
- Magnet mounted on frame over main conveyor to be ordered as a non standard option
- Single deck vibrating grid available to be ordered as a non standard option



# WEIGHTS & DIMENSIONS

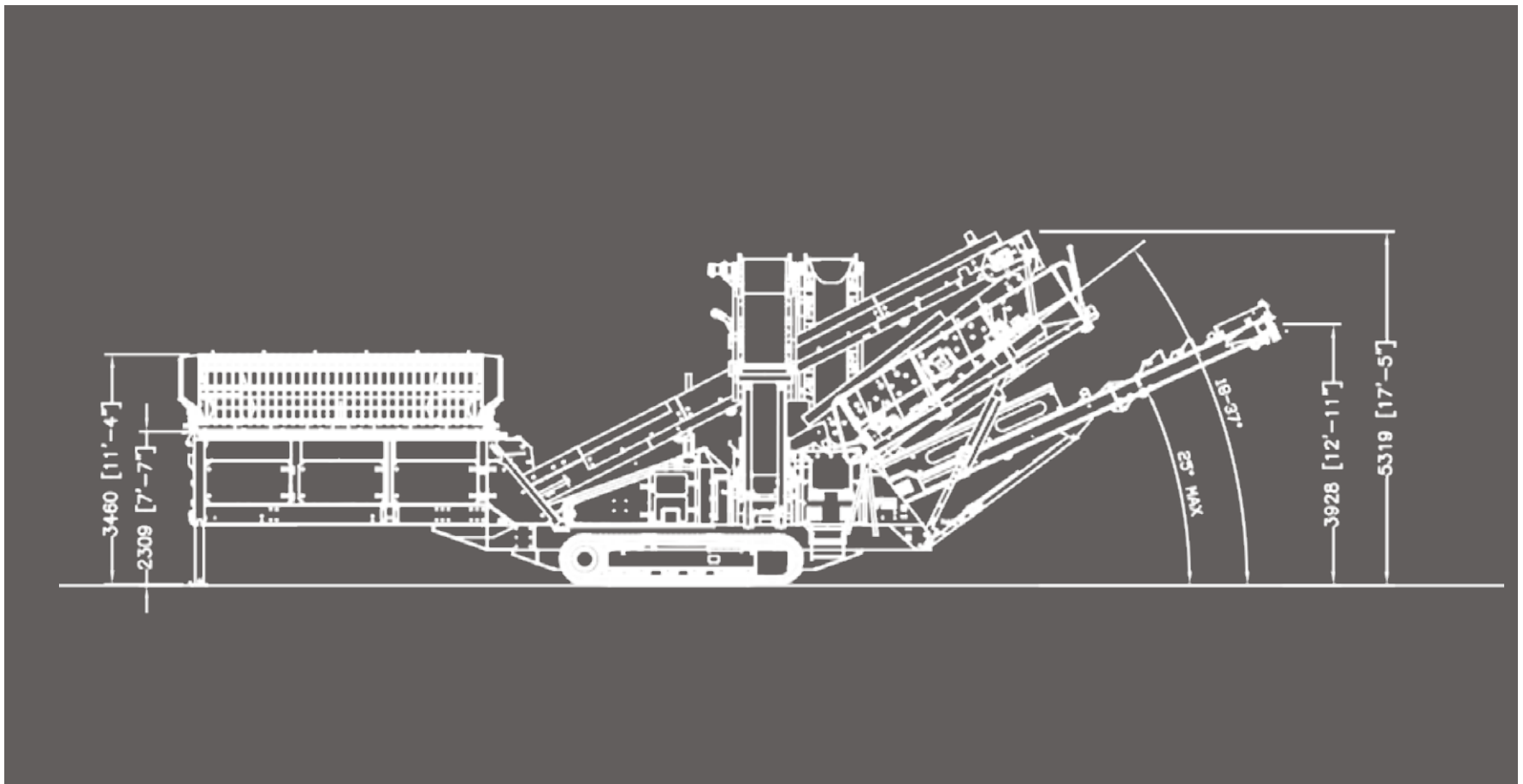
## WORKING

**Length:** 15m (49' 3")  
**Width:** 3m (9' 10")  
**Height:** 3.2m (10' 6")  
**Weight:** (with tipping grid):  
24,250kgs (53,462lbs)



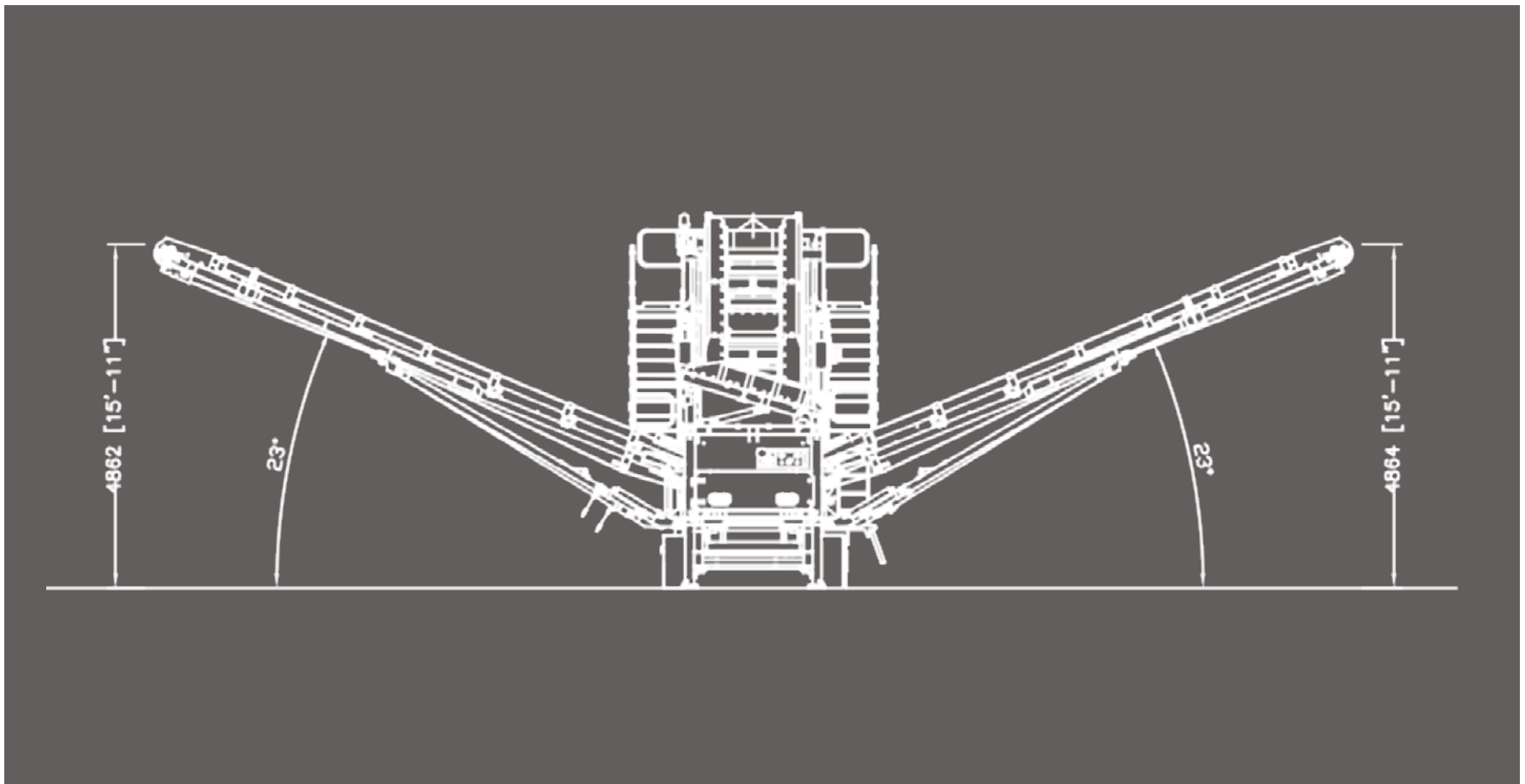
# WEIGHTS & DIMENSIONS

## WORKING



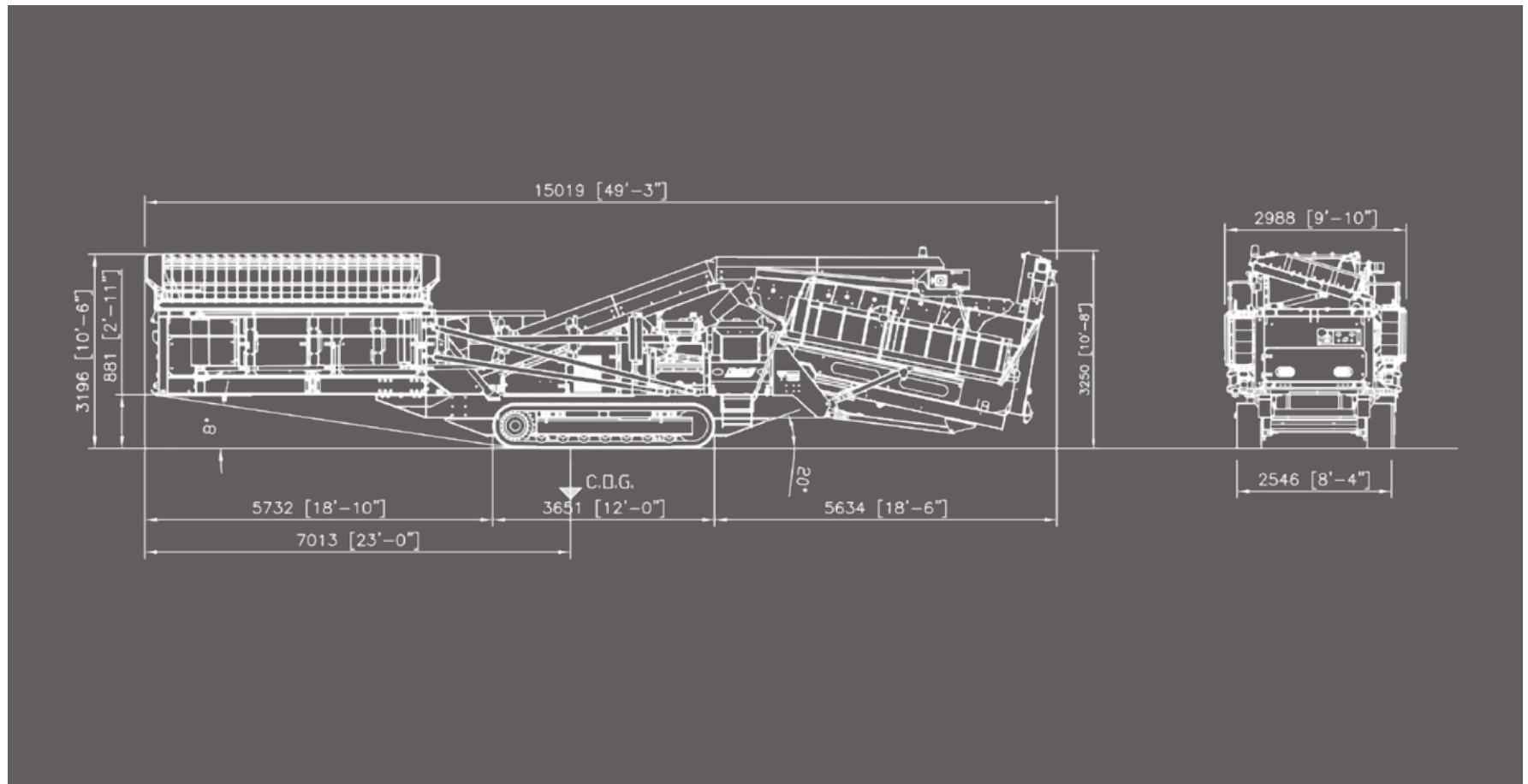
# WEIGHTS & DIMENSIONS

## WORKING



# WEIGHTS & DIMENSIONS

## TRANSPORT



200 Coalisland Road,  
Dungannon, Co. Tyrone, BT714DR  
**Tel:** +442887718500  
**Email:** [EvoQuip@terex.com](mailto:EvoQuip@terex.com)



[terex.com/EvoQuip](https://terex.com/EvoQuip)

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