



# FALCON 1230

**3 DECK FINISHING SCREEN**

TECHNICAL  
SPECIFICATION

# OVERVIEW

1

## HOPPER/FEEDER

- 8m<sup>3</sup> (10.5yd<sup>3</sup>) hopper capacity
- 4.2m (14ft) long hopper and belt feeder
- 1.05mm (42") wide feeder belt

2

## ENGINE OPTIONS

- Tier 3 - CAT C4.4  
77kW (103Hp) @1800rpm
- Stage 3A - CAT C4.4  
98.1kW (131Hp) @1800rpm
- Tier 3 Option - CAT C4.4 LRC (Optional)  
90kW (121Hp) @1800rpm
- Tier 4 Final - CAT C4.4  
82kW (110Hp) @1800rpm
- Stage V - CAT C4.4  
98kW (131Hp) @1800rpm

3

## SCREEN

- 3.66m x 1.52m (12' x 5') top & middle deck screen
- 3.00m x 1.52m (10' x 5') bottom deck screen
- Total screening area: 15.7m<sup>2</sup> (170ft<sup>2</sup>) 3 deck

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## CONVEYORS

- 1m (40") wide main conveyor
- 1.2m (48") wide fines conveyor with 4.4m (14' 4") discharge
- 650mm (26") wide mid-overs with 4.76m (15' 7") discharge
- 650mm (26") wide mid-fines with 4.76m (15' 7") discharge
- 500mm (20") wide over size conveyor with max discharge height 4.48m (14' 8")

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  
**300**  
TONNES PER HOUR  
(330 US TPH)

# OVERVIEW

- The Falcon 1230 finishing screen is a compact easily transportable machine that offers operators rapid set up and tear down times.
- The screen-box features three decks giving a large screening area of 170ft<sup>2</sup> (15.7 m<sup>2</sup>) to provide efficient screening and high capacity.
- The screen-box features quick wedge tensioning, access holes and bottom deck hydraulic tensioning system to reduce time required for mesh changes.
- All four discharge conveyors are adjustable and hydraulically fold for transport.
- The fourth product 'oversize' conveyor has variable tilt and side slew to accurately discharge material for recirculation and stockpiling.

## FEATURES & BENEFITS

- Compact 3 deck finishing screen
- Ability to hydraulically adjust the screen angle (between 18° and 37°) allows operator to optimise material classification and throughput
- Oversize plus hydraulic folding and swivel
- Simplified machine concept and operation
- Quick set up time
- Easy to transport
- Ideal for urban use

# 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): 3.52m (11' 7")
- Feed in width (tip to tip of grid wing plates): 4.77m (15' 8")
- Radio remote controlled as standard
- Variable 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): 2.36m (7' 9"). Note: Hopper dead plate fitted as std. with no grid
- 8m<sup>3</sup> (10.5yd<sup>3</sup>) hopper capacity
- 1050mm (42") wide 3 ply feeder belt
- Hydraulic Drive via high torque gear box
- Variable speed



# HOPPER

- Bolt in hopper assembly – replaceable and provides excellent access
- Wide opening at feeder discharge
- Excellent clearance between feeder discharge and main conveyor
- Excellent access to belt feeder
- 10mm thick bolt in wear resistant liners available as an option



# SCREENBOX

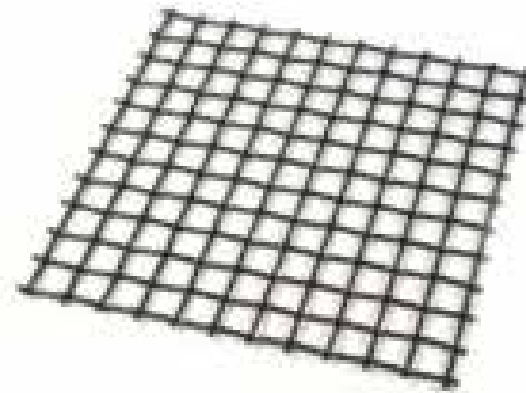
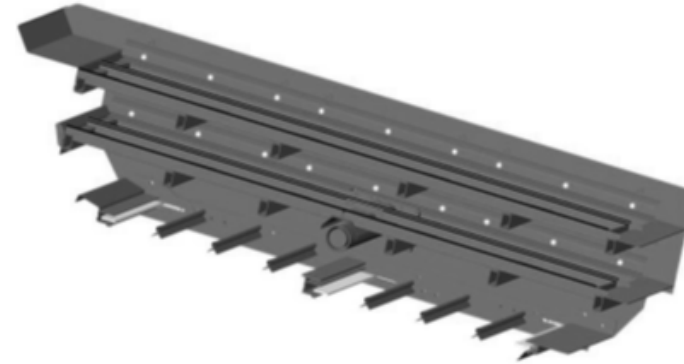
## TRIPLE DECK

- **Versatile 2 bearing triple deck incline screen:**
  - 3.66m x 1.52m (12' x 5') top and middle deck three 4' x 5' panels
  - 3.00m x 1.52m (10' x 5') bottom deck screen two 5' x 5' panels
- Total screening area of all 3 decks: 15.7 m<sup>2</sup> (170ft<sup>2</sup>)
- Side tensioned top and middle decks with Quick Wedge tensioning as standard
- End tensioned bottom deck with hydraulic screen tensioning as standard
- Screen speed: 1120rpm
- Standard screen stroke: 6.5mm (1/4")



# SCREENBOX

- Variable Screen Angle (hydraulically adjustable): 18 - 37 degrees
- Direct hydraulic drive as standard
- Abrasion resistant material impact plate (breaker box) 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

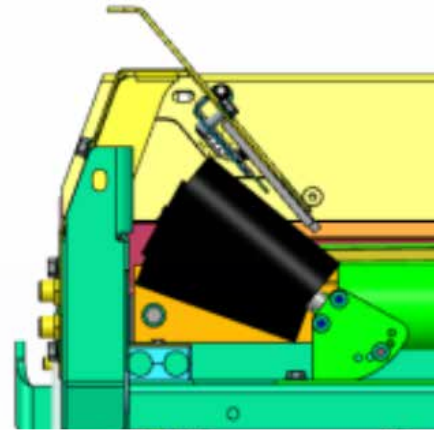




# CONVEYORS

## MAIN CONVEYOR

- 1,000mm (40") wide 3 ply belt
- Direct hydraulic drive via high torque motor
- Belt Speed: 92 mpm (302' per minute)
- Full length of conveyor steel skirted
- Working Angle: 21-28°
- Anti-roll-back fitted as standard
- Spreader Plate fitted at the main conveyor discharge



# CONVEYORS

## MID-OVERS & MID-FINES

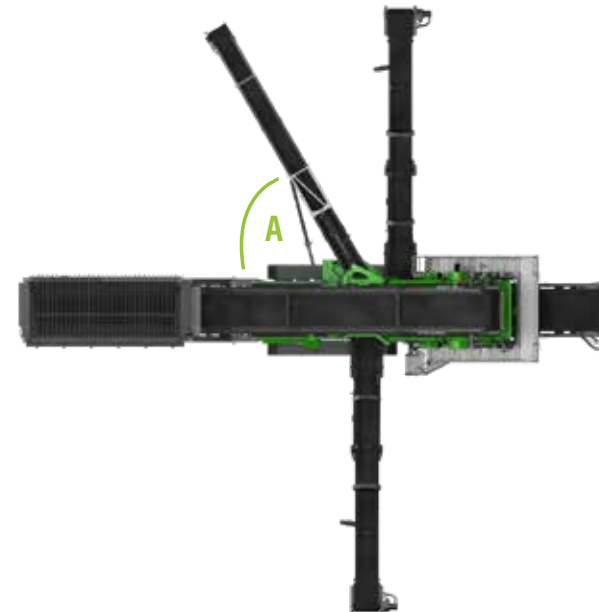
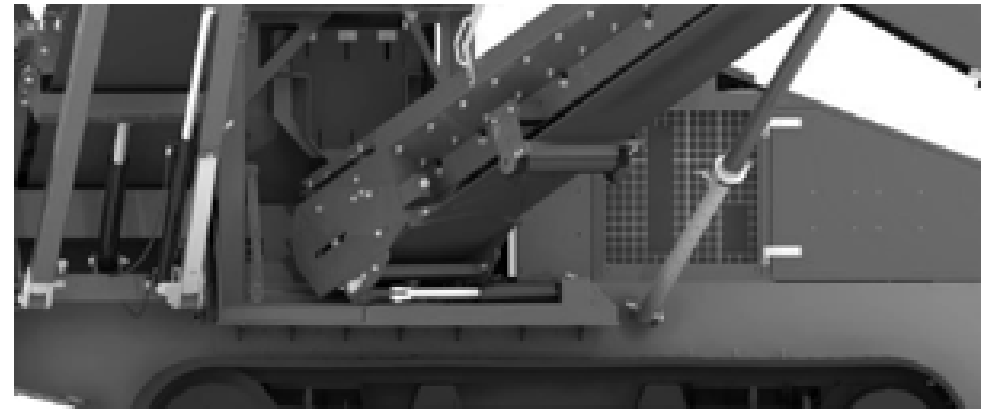
- 650mm (26") wide 3 ply belt
- Max discharge height: 4.76m (15' 7")
- Stockpile capacity: 160m<sup>3</sup> (210yd<sup>3</sup>)
- Variable speed via high torque motor
- Working Angle: 24°
- Hydraulic folding for transport



# CONVEYORS

## OVERSIZE CONVEYOR

- 500mm (20") wide 3 ply belt
- Max discharge height: 4.48m (14' 8")
- Stockpile capacity: 134m<sup>3</sup> (175yd<sup>3</sup>)
- Variable speed via high torque motor
- Variable Working Angle: 20° to 23° adjusted hydraulically
- Operating angle (A) variable between 40° and 60°
- Oversize material transfers from screen via Top Deck chute
- Stainless steel liners in chute to minimise risk of build-up
- Belt feeder side profile accommodates oversize conveyor drive motor



# CONVEYORS

## FINES CONVEYOR

- Broad 1200mm (48") wide 3 ply fines belt facilitates large volume stockpiles
- Standard Discharge Height: 3.74m (12' 3") - capacity: 78m<sup>3</sup> (102yd<sup>3</sup>) at 25° running angle
- Up to 4,360mm (14' 4") discharge height : capacity: 123m<sup>3</sup> (161yd<sup>3</sup>) at 30° running angle
- Adjustable working angle: 14°- 30°
- Variable speed hydraulic drive via high torque motor
- Belt speed: 92mpm (302' per min)
- Rosta scraper on head drum
- Excellent ground clearance as fines conveyor supported from above from screen subframe
- Rapid fit aluminium dust covers option are available as an option



# POWER UNIT

## TIER 3

- CAT C4.4
- Engine Power: 77kW (103Hp)
- Engine Speed: 1800rpm

## TIER 3 OPTION

- CAT C4.4 LRC (Optional)
- Engine Power: 90kW (121Hp)
- Engine Speed: 1800rpm

## TIER 4 FINAL

- CAT C4.4
- Engine Power: 82kW (110Hp)
- Engine Speed: 1800rpm

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

- CAT C4.4
- Engine Power: 98kW (131Hp)
- Engine Speed: 1800rpm



**Note: Telemetry available as standard on all configurations except the Tier 3 Mechanical Engine (77kW / 103Hp)**

# POWER UNIT

- User friendly powerunit
- Access to both sides of the engine
- Visual Electronic Control
- When the Mid-Overs Conveyor is folded for transport there is clear unrestricted access to powerunit control panel and Hydraulic Control Levers
- Hydraulic Tank: 450 litres / 99 UK gal / 119 US gal
- Fuel Tank: 336 litres / 72 UK gal / 88 US gal)



# TRACKS

- Shoe Width: 400mm (16")
- Sprocket Centres: 2.92m (9' 7")
- Speed: 0.8km/h
- Gradeability: 25.5°
- Rake Angle: 8°



# OPTIONS

## Screenbox Options

- Various types of top deck and middle deck media
- Various types of bottom deck media (Mesh / speed harp)
- Screenbox Rotation Reversal control

## Conveyor Options

- Main Conveyor spreader plate lined wear resistant steel
- Hydraulic raise of Main Conveyor head-section (For improved mesh access)
- Rapid fit Aluminium Dust covers on both main and fines conveyor
- Dust suppression system on fines (does not include waterpump)

## 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

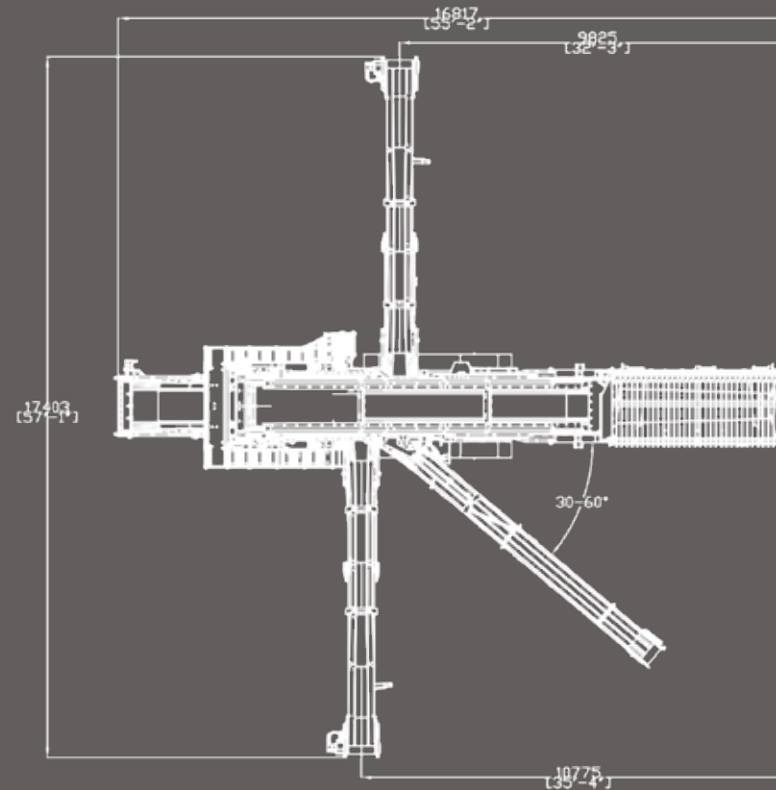
- Radio remote control of tracks
- 68 grade hydraulic oil
- One off standard stockpile drive – Approx. 30 Litres/min (only available when no vibrating grid is fitted)
- OR one off dedicated stockpile drive – Approx. 55 Litres/min
- Working lights on powerunit and main conveyor
- 10mm (3/8") thick bolt in wear resistant liners in hopper of belt feeder



# WEIGHTS & DIMENSIONS

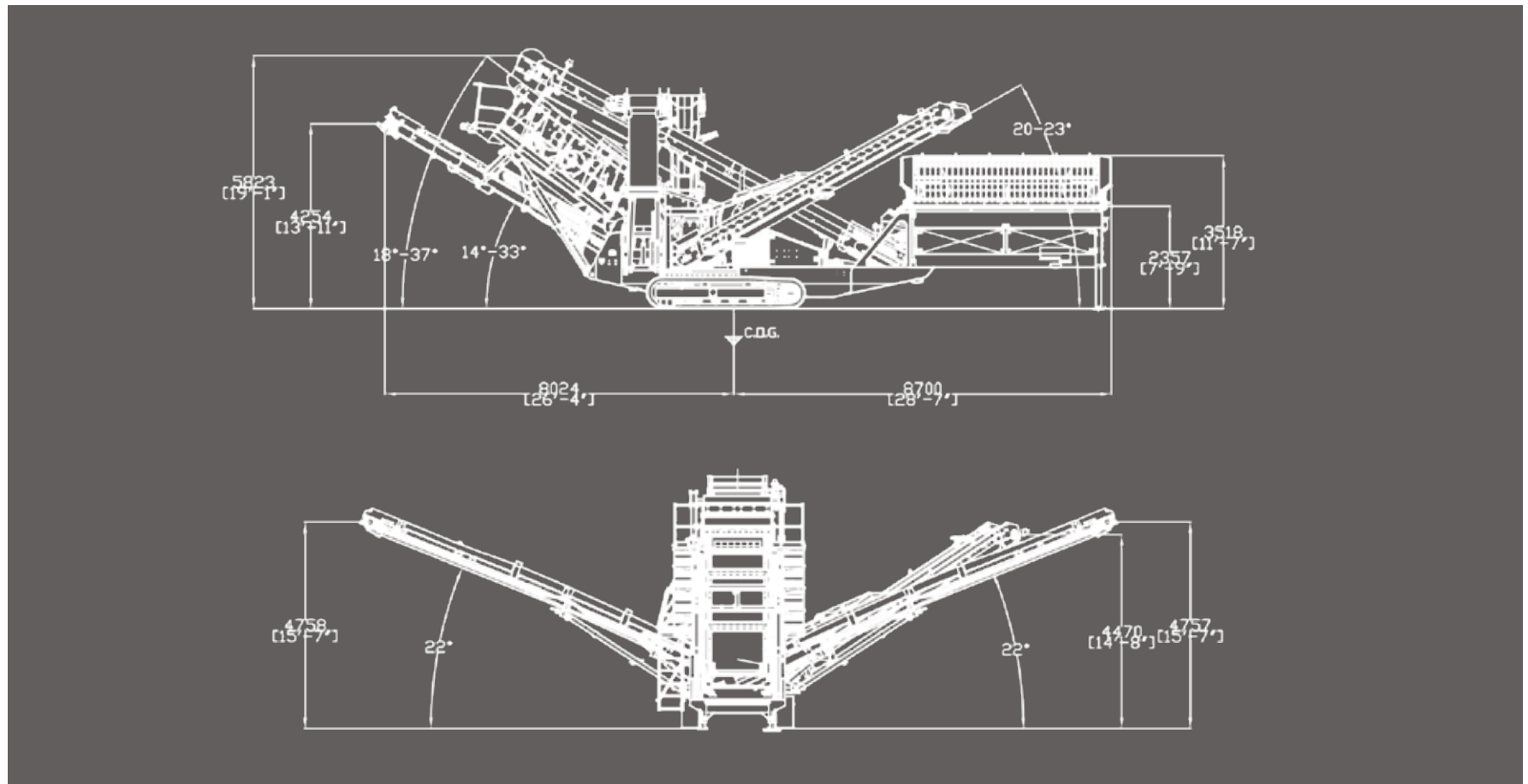
## WORKING

**Length:** 16.7m (55')  
**Width:** 3m (9' 10")  
**Height:** 3.4m (11' 3")  
**Weight:** (with tipping grid):  
28,500kgs (62,832lbs)



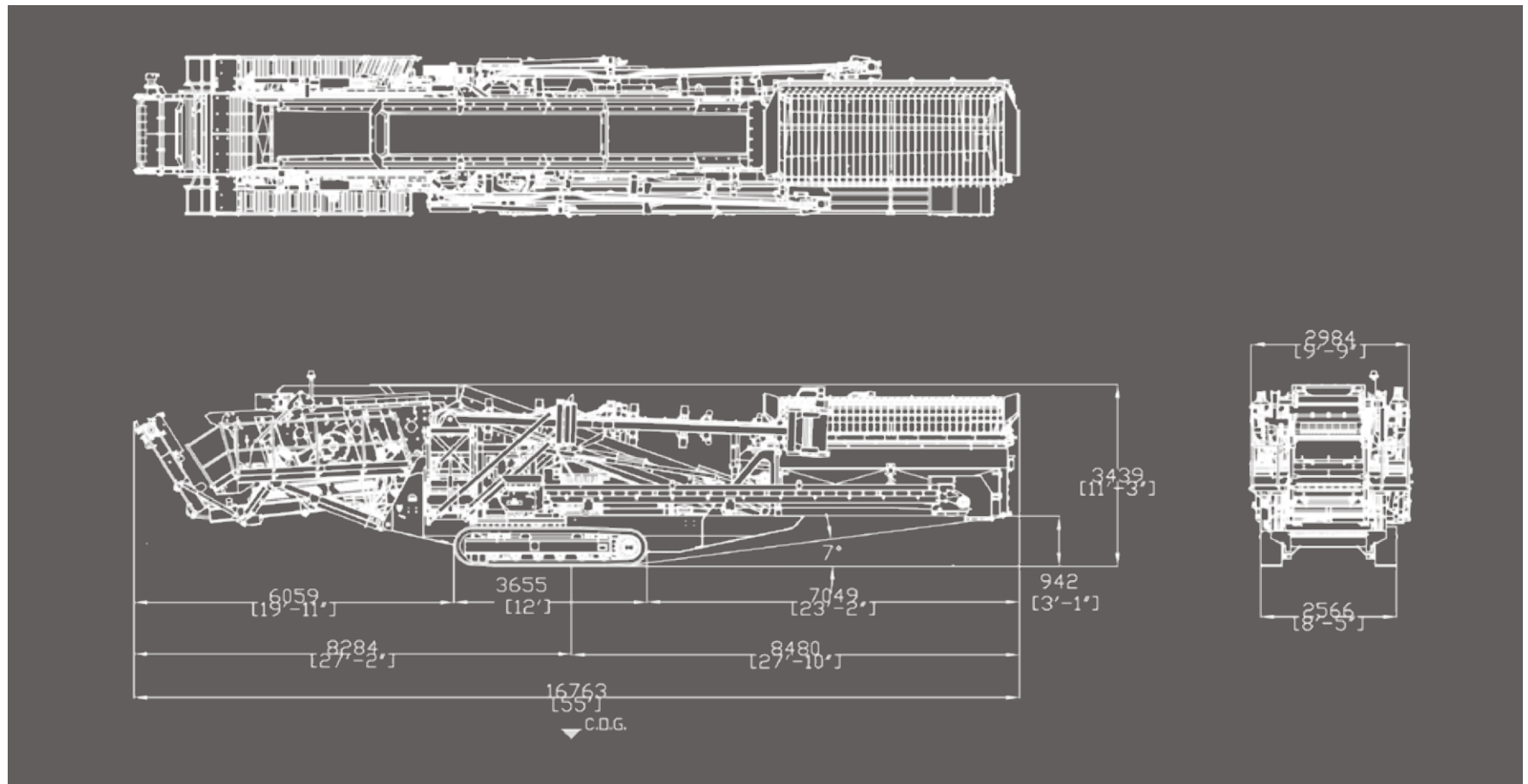
# WEIGHTS & DIMENSIONS

## WORKING



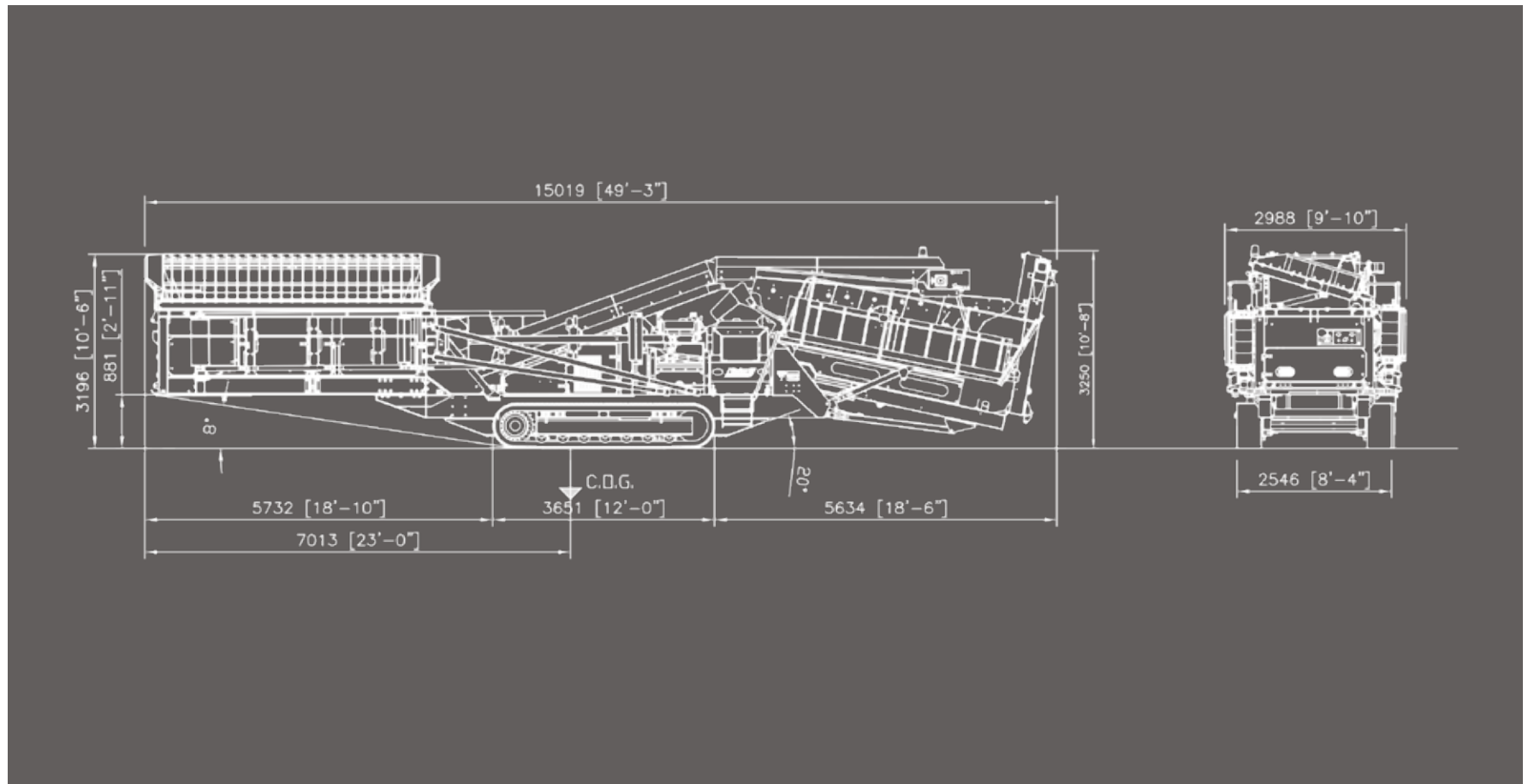
# WEIGHTS & DIMENSIONS

## WORKING



# WEIGHTS & DIMENSIONS

## TRANSPORT



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