

Powerscreen[®] Chieftain 1400

2 Deck Incline Screen

Specification - Rev 4. 06/06/2011



Specification

		14ft Hopper (with grid) wheel	14ft Hopper (with grid) track
Total weight		22,000kg (48,502lbs)	24,900kg (54,895lbs)
Transport	Length	16.95m (55' 7")	15.4m (50' 6")
	Width	2.75m (9' 0")	2.75m (9' 0")
	Height	3.9m (12' 8")	3.2m (10' 6")
Working	Length	17.9m (58' 9")	16.4m (53' 9")
	Width	16.21m (53' 2")	16.2m (53' 2")
	Height	5.33m (17' 6")	4.8m (15' 7")
Screenunit		3.3m x 1.5m (11' x 5')	3.3m x 1.5m (11' x 5')
Powerunit		Diesel / Hydraulic	Diesel / Hydraulic
Plant Colour		RAL 5021	RAL 5021

Features & Benefits

- § High capacity up to 400 tph (depending on feed size, mesh size & material type)
- § Maximum feed size 150mm
- § Engine protection shutdown system
- § Powerunit featuring a transverse engine arrangement to aid access & serviceability
- § Heavy duty single shaft incline screenbox with adjustable stroke, angle & speed
- § Hydraulic screen tensioning (optional)
- § Screen mesh access system for quicker mesh changes
- § Maximum mobility with heavy duty, low ground pressure crawler tracks
- § Removable heavy duty pendant remote control system
- § Quick set up time
- § High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler
- § Angle adjustable tipping grid with radio control double acting tipping grid rams
- § Low profile double deck vibrating grid option with radio remote control tipping grid rams, angle adjustable & fully riveted construction
- § Hydraulically folding conveyors for transport
- § Fines conveyor drop down facility to aid bottom deck mesh access

Applications

Aggregate

- § Sand & gravel
- § Blasted rock
- § River rock

Recycling

- § Top soil
- § C&D waste
- § Composted materials
- § Wood by-products
- § Overburden
- § Foundry waste

Mining

- § Processed ores
- § Processed minerals

Abbreviations: T=Track, W=Wheel, Std= Standard, Hyd= Hydraulic, W/O= Without, C/W= Complete with
 EXT= Extended, DDVG= Double deck vibrating grid, Inc= Including, Aux= Auxiliary,
 Conv= Conveyor

All specifications subject to change without prior notice



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Hopper & Grid

Target area: 4.85m (15' 10") long x 1.85m (6') wide

Grid aperture: 102mm (4")

Hopper capacity: 7.5m³ (9.8 cu. yd.)

Adjustable angle tipping grid with integral loading and wing plates

Feed in height: 3.3m (10' 10") with grid

Feed Conveyor

1050mm (42") wide feed conveyor with direct drive system & hydraulic variable speed control

4.11m (13' 5") drum centres

320mm (13") drum diameter (drive)

350mm (14") drum diameter (tail)



Main Conveyor

1050mm (42") 3 ply plain belt

10.17m (33' 4") drum centres

286mm (11") drum diameter (drive)

270mm (10") drum diameter (tail)

Hydraulically adjustable conveyor, fully skirted & sealed

Fixed speed control



Screenbox

3.3m x 1.5m (11' x 5') 2 deck incline screen

Highly aggressive screen drive

Grease filled 4 bearing screenbox

3.52m x 1.55m (11' 6" x 5' 1") top deck

3.41m x 1.55m (11' 2" x 5' 1") bottom deck

Hydraulic screen angle adjustment 15° - 18°

Combination side & end tensioned top deck

End tensioned bottom deck

Galvanised maintenance platforms on both sides of screen

Hydraulic screen tensioning on bottom deck

Quick release wedge screen tensioning system for side tensioned section (top deck)



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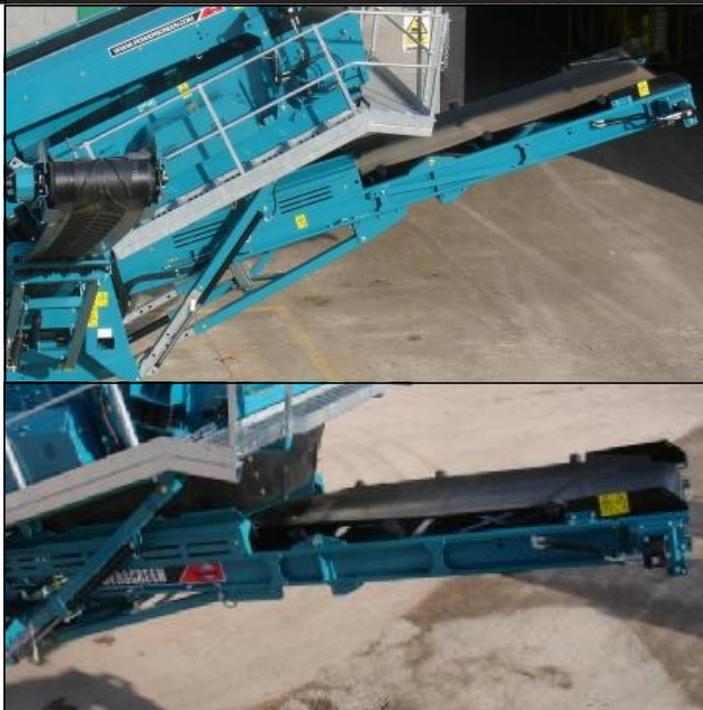
Finesize - Tail Conveyor

1200mm (48") wide 3 ply plain belt
5.9m (19' 4") drum centres
286mm (11") drum diameter (drive)
270mm (10") drum diameter (tail)

3.91m (12' 10") stockpile height (to drum centre) T
89m³ (116 cu. yd.) stockpile volume

4.18m (13' 9") stockpile height (to drum centre) W
109m³ (143 cu. yd.) stockpile volume

Fixed speed
Hydraulically folding
Chevron belt as option
Fixed angle: 24°



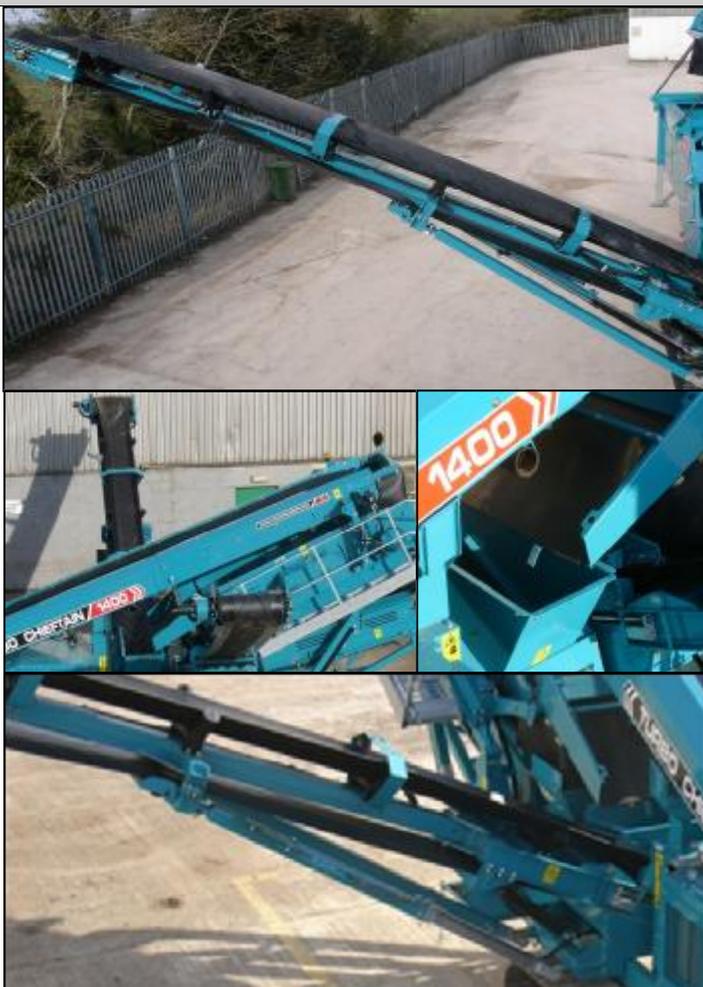
Midsize & Oversize Side Conveyors

650mm (26") wide 3 ply chevron belt
9.07m (29' 8") drum centres
286mm (11") drum diameter (drive)
270mm (10") drum diameter (tail)

4.49m (14' 9") stockpile height (to drum centre) T
135m³ (177 cu. yd.) stockpile volume

4.76m (15' 7") stockpile height (to drum centre) W
161m³ (211 cu. yd.) stockpile volume

Variable speed control on each conveyor
Hydraulic folding
Fixed angle: 24°



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Powerunit & Hydraulics

Engine:

CAT 4.4 (TIER 3) 4 cylinder diesel

Performance:

83 kW (111.3hp) @ 2200rpm

Tank Capacities:

Fuel: 336 L (88 US Gal)

Hydraulic oil: 564 L (149 US Gal)

Pumps:

Flywheel pump: Cast iron tandem pump 32cc/rev

PTO pump: Cast iron tandem pump 23cc/rev

Motors:

Belt feeder: 160cc/rev

Main conveyor: Cast iron 630cc/rev

Tail conveyor: Cast iron 500cc/rev

Side conveyors: Cast iron 400cc/rev

Screen motor: Cast iron 59cc/rev

Optional apron feeder: 400cc/rev

Optional Diesel engine:

Deutz 2013, 125 kW (168hp) @ 2200rpm



Crawler Track Data

Track width: 500mm

Output torque: 24,900 Nm

Gradability degrees: 24.9°

Gearbox ratio: 1:154

Hydraulic motor: 50cc/rev

Approximate speed: 0.9kph (0.56mph)

Total flow per track: 72.6 Lpm



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Powerscreen[®] Chieftain 1400 Options

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Vibrating Grid

Target area:

2.96m (9' 8") long x 2.11m (6' 11") wide

Working angle: 5° - 20° (adjustable)

Tip angle: 45° max

Motor: 59cc/rev

Circuit: Coupled to main conveyor circuit

Feed in height: 3.59m (11' 9") with grid

Feed in height: 3.38m (11' 1") with out grid

Transport height: 3.42m (11' 3") Track

Transport height: 4.08m (13' 5") Wheel

Total weight: 28,960kg (63,846lbs) Track

Total weight: 26,000kg (57,320lbs) Wheel



Dual Power

Dual Power System:

2 of electric motors: 30 kW (40hp) & 30 kW (40hp)

Diesel engine

Integrated control system

This controls either diesel-hydraulic or electric-hydraulic functions



Other Options

Different coloured machine

Auto lubrication system

Radio controlled tracking

Quick release wedge screen tensioning (side tension only)

Extra coupling facility

Full dust suppression

Roll-in bogie / TUV

Washing version



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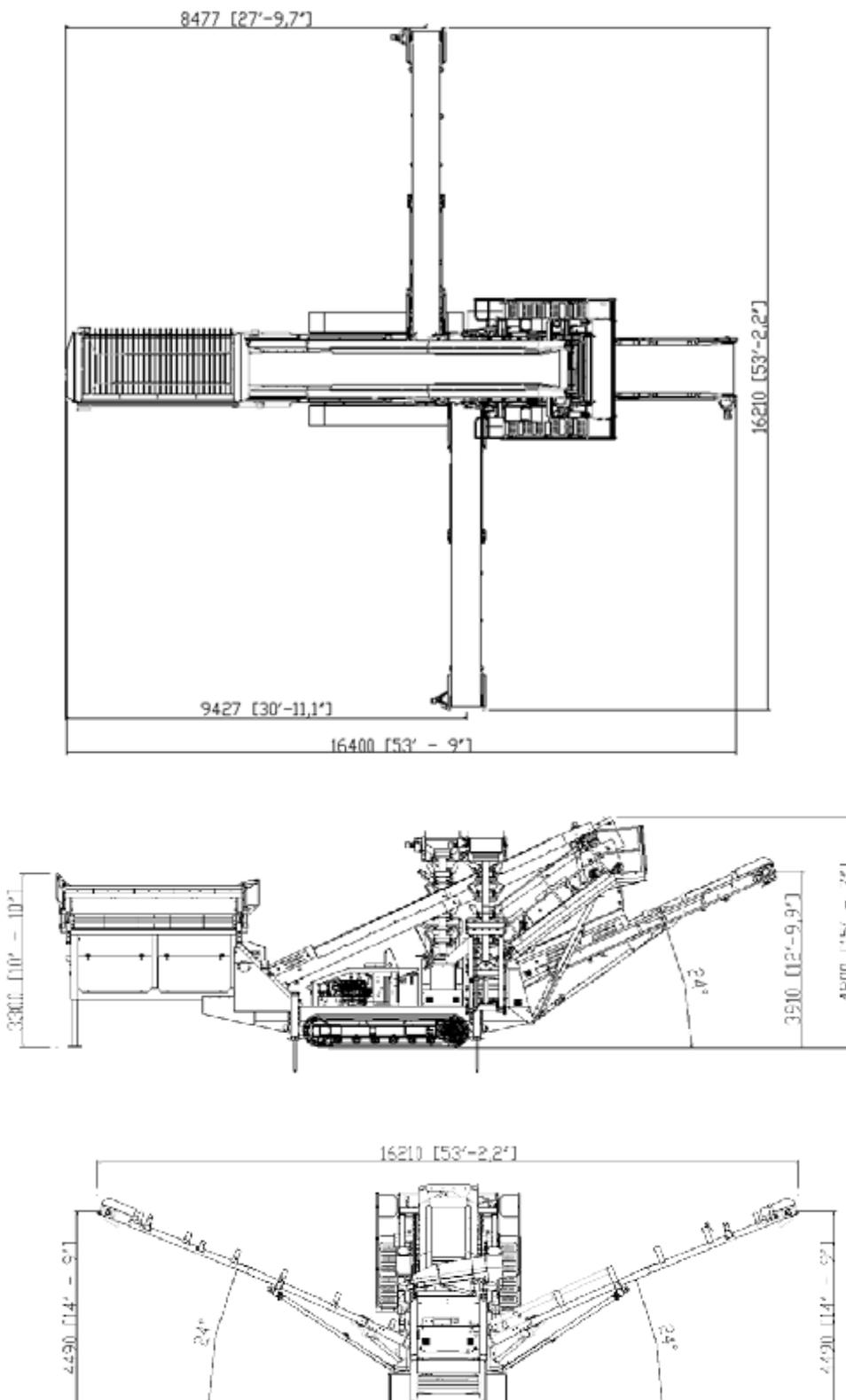


Figure 1: Chieftain 1400 2 Deck Track Working Position

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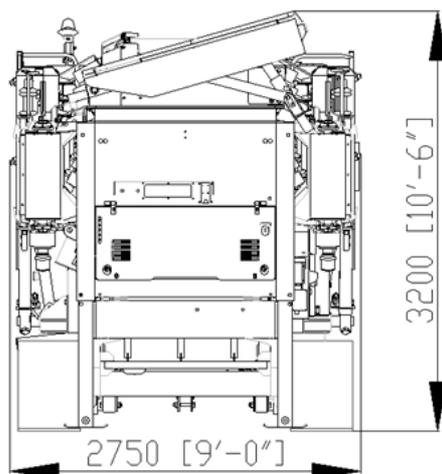
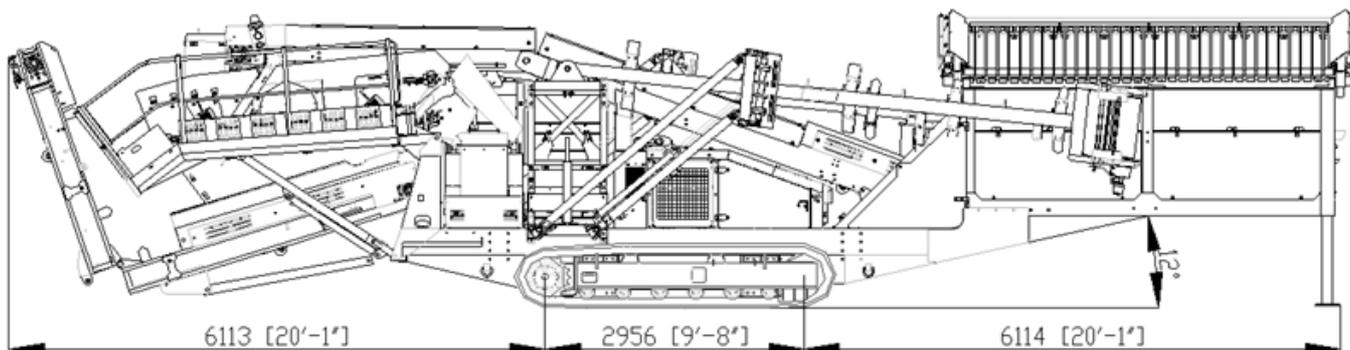
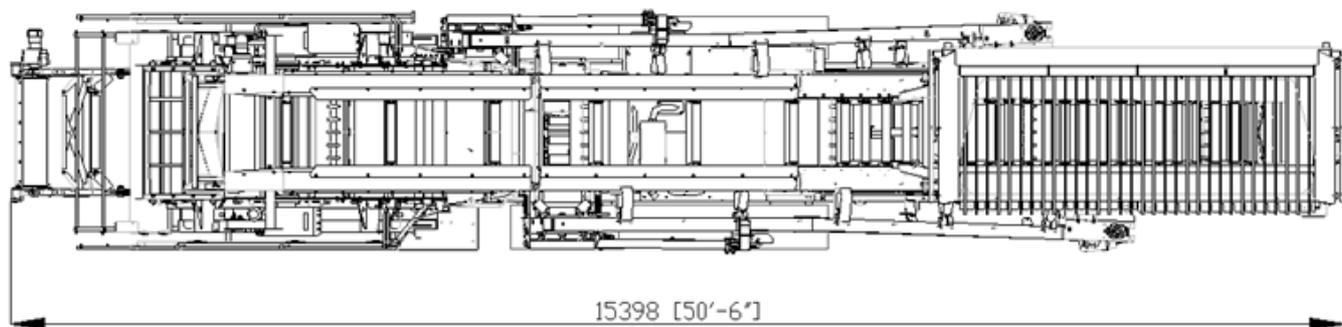


Figure 2: Chieftain 1400 2 Deck Track Transport Position

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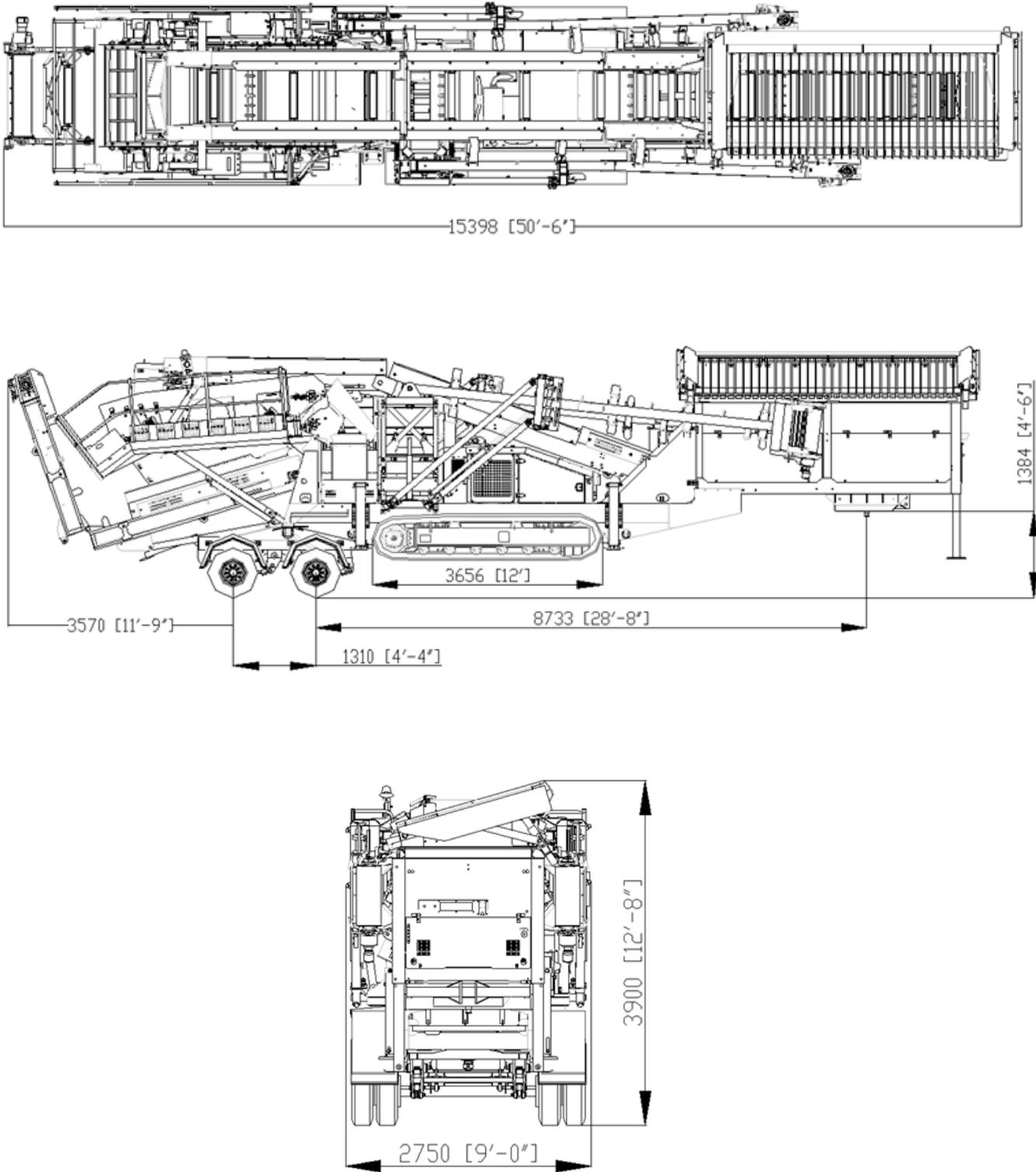


Figure 3: Chieftain 1400 2 Deck Track Roll-in Bogie

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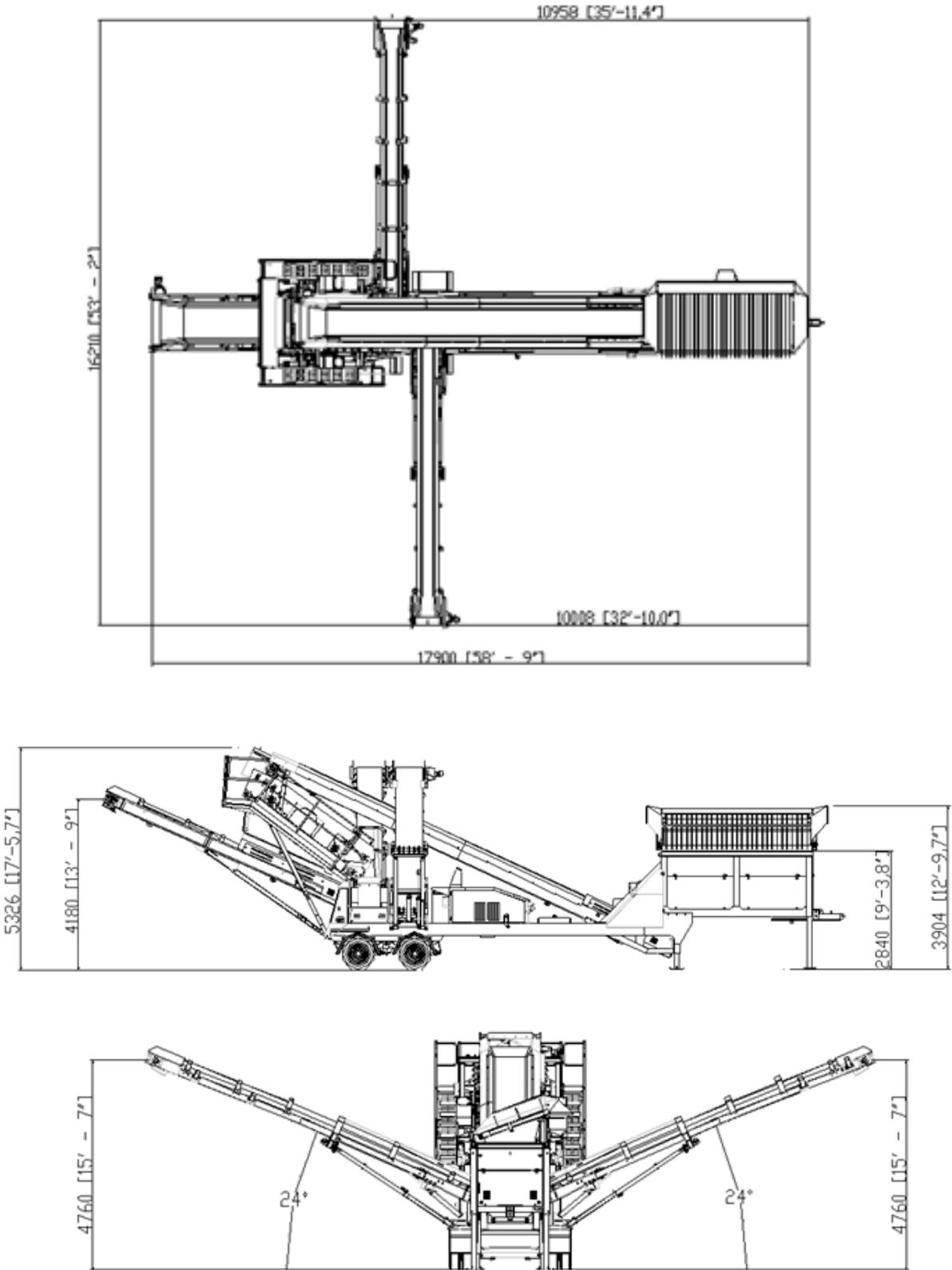


Figure 4: Chieftain 1400 2 Deck Wheel Working Position

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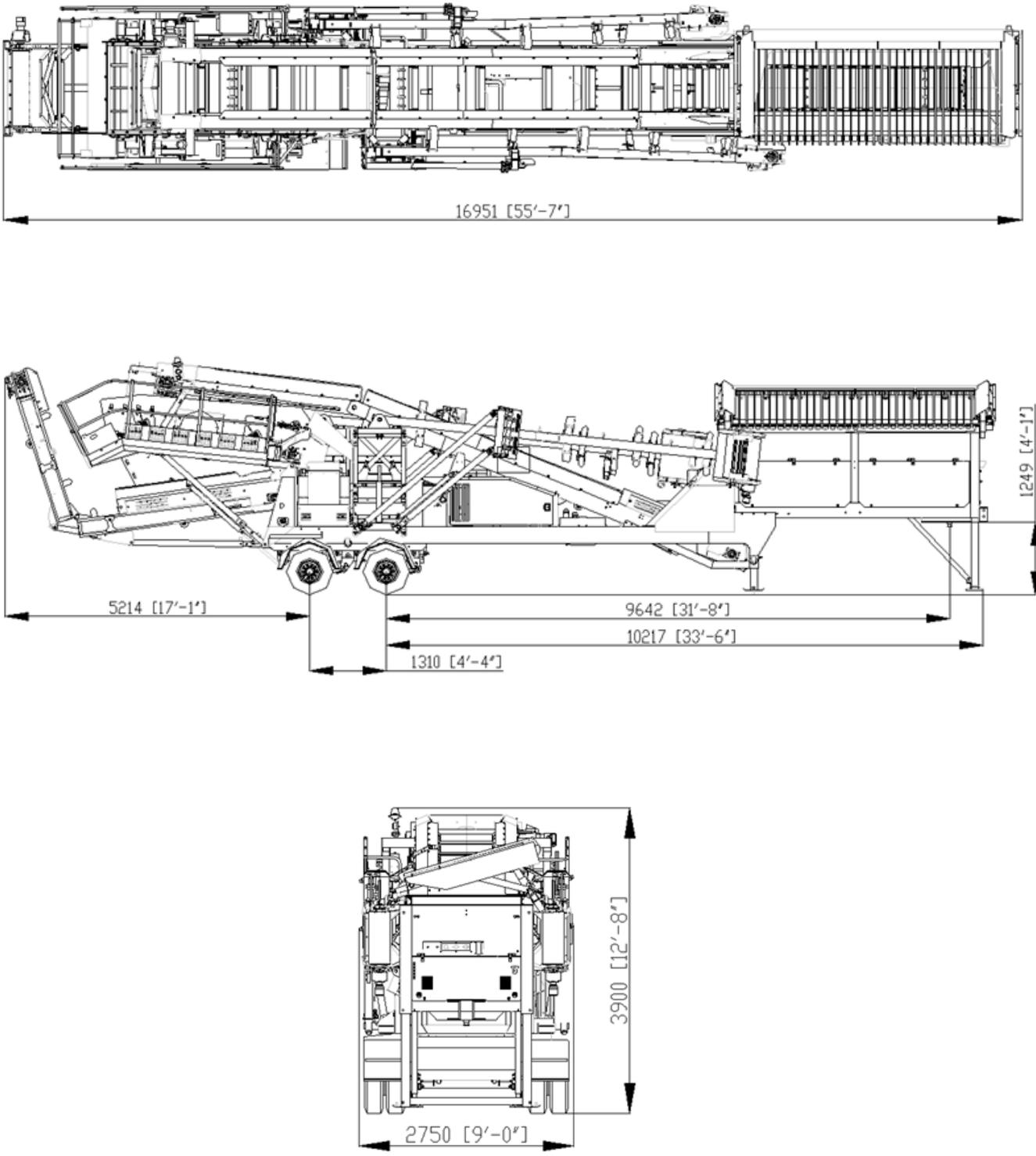


Figure 5: Chieftain 1400 2 Deck Wheel Transport Position

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Powerscreen equipment complies with CE requirements.

Please consult Powerscreen if you have any other specific requirements in respect of guarding, noise or vibration levels, dust emissions, or any other factors relevant to health and safety measures or environmental protection needs. On receipt of specific requests, we will endeavour to ascertain the need for additional equipment and, if appropriate, quote extra to contract prices.

All reasonable steps have been taken to ensure the accuracy of this publication, however due to a policy of continual product development we reserve the right to change specifications without notice.

It is the importers' responsibility to check that all equipment supplied complies with local legislation regulatory requirements.

Plant performance figures given in this brochure are for illustration purposes only and will vary depending upon various factors, including feed material gradings and characteristics. Information relating to capacity or performance contained within this publication is not intended to be, nor will be, legally binding.

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