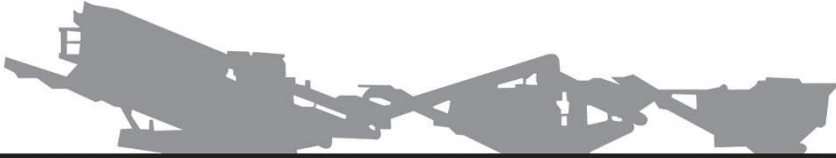


Powerscreen® Chieftain 2100S

3 Deck Incline Screen

Specification - Rev 7. 01/01/2013



Powerscreen® Chieftain 2100S 3 Deck

Specification - Rev 7. 01/01/2013

Specification

		14ft Hopper (with grid) track	14ft Hopper (with DDVG) track
Total weight		37,400kg (82,453lbs)*	41,400kg (91,271lbs)*
Transport	Length	19.06m (62' 7")	18.89m (62')
	Width	3.0m (9' 10")	3.0m (9' 10")
	Height	3.47m (11' 5")	3.6m (11' 10")
Working	Length	19.47m (63' 11")	19.28m (63' 3")
	Width	18.3m (60')	18.3m (60')
	Height	6.29m (20' 8")	6.29m (20' 8")
(screenbox at 25°)			
Screenunit		6.1m x 1.55m (20' x 5')	6.1m x 1.55m (20' x 5')
Powerunit		Diesel / Hydraulic	Diesel / Hydraulic
Plant Colour		RAL 5021	RAL 5021

Features & Benefits

- High capacity up to 600 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
- 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
- Low profile double deck vibrating grid option with radio remote control tipping grid rams, angle adjustable and 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, *= depending on machine specification

All specifications subject to change without prior notice



Powerscreen® Chieftain 2100S 3 Deck

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Hopper & Grid

Target area: 4.85m (15' 10") long x 1.95m (6' 4") wide

Grid aperture: 102mm (4")

Hopper capacity: 8m³ (10.5 cu. yd.)

Adjustable angle tipping grid with integral loading & wing plates

Feed in height: 3.47m (11' 5") (side)

Feed in height: 3.14m (10' 4") (rear)

Feed Conveyor

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

4.11m (3' 5") drum centres

350mm (13.5") drum diameter (drive)

320mm (12.5") drum diameter (tail)

Main Conveyor

1050mm (42") 3 ply plain belt

12.08m (39' 7") drum centres

286mm (11") drum diameter (drive)

270mm (10") drum diameter (tail)

Hydraulically adjustable conveyor, fully skirted & sealed

Hydraulic raise for mesh change

Angle adjustment: 23° - 27°

Screenbox

6.1m x 1.53m (20' x 5') 3 deck incline screen

Highly aggressive screen drive

Oil filled 2 bearing screenbox

6.1m x 1.53m (20' x 5') top & middle deck

5.55m x 1.53m (18' x 5') bottom deck

5 of media sections (side tension) top deck

5 of media sections (side tension) middle deck

3 of media sections (end tension) bottom deck

Hydraulic screen angle adjustment 20° - 30°

Hydraulic screen tensioning on bottom deck

Galvanised walkways on both sides of screen



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Powerscreen® Chieftain 2100S 3 Deck

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Finesize - Tail Conveyor

1200mm (48") wide 3 ply plain belt
8.15m (26' 8") drum centres
286mm (11") drum diameter (drive)
270mm (10") drum diameter (tail)

4.75m (15' 7") stockpile height (conveyor at 28°)
117m³ (153 cu. yd.) stockpile volume
Variable speed
Hydraulically folding
Chevron belt as option
Angle adjustment: 18° - 28°
Set down for mesh change

Mid-finesize & Mid-oversize - Side Conveyors

800mm (32") wide 3 ply chevron belt
10.18m (33' 4") drum centres
286mm (11") drum diameter (drive)
270mm (10") drum diameter (tail)

4.96m (16' 3") stockpile height (to drum centre)
182m³ (238 cu. yd.) stockpile volume
Individual variable speed control
Hydraulically folding
Fixed angle: 22°

Oversize - Auxiliary Conveyor (std)

650mm (26") wide 3 ply chevron belt
7.83m (25' 8") drum centres (standard length)
286mm (11") drum diameter (drive)
203mm (8") drum diameter (tail)

4.42m (14' 6") stockpile height (to drum centre)
129m³ (169 cu. yd.) stockpile volume
Variable speed
Hydraulically folding
Fixed angle: 25°

Oversize - Auxiliary Conveyor (ext)

650mm (2' 1") wide 3 ply chevron belt
10.26m (33' 7") drum centres (extended length)
286mm (11") drum diameter (drive)
203mm (8") drum diameter (tail)

5.44m (17' 10") stockpile height (to drum centre)
240m³ (314 cu. yd.) stockpile volume
Variable speed
Fixed angle: 25°



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Powerscreen® Chieftain 2100S 3 Deck

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Powerunit & Hydraulics

Engine:

CAT C4.4 ATAAC (Tier 3 / Stage 3A) 4 cylinder diesel

Performance:

97 kW (130hp) @ 2200rpm

Tank Capacities:

Fuel: 336 L (88 US Gal)

Hydraulic oil: 564 L (149 US Gal)

Pumps:

Flywheel pump: Cast iron triple 63, 33, 33cc/rev

PTO pump A: Cast iron tandem pump 23cc/rev

PTO pump B: Cast iron tandem pump 14cc/rev

Motors:

Belt feeder: 160cc/rev

Main conveyor: Cast iron 500cc/rev

Tail conveyor: Cast iron 800cc/rev

Side conveyors: Cast iron 400cc/rev

Auxiliary conveyors: Cast iron 400cc/rev

Screen: Cast iron 80cc/rev

Optional Diesel engine:

Tier 4i / Stage 3B: CAT C4.4 82kW (110hp) @ 2200rpm

Tier 4i / Stage 3B: CAT C4.4 98kW (131hp) @ 2200rpm



Crawler Track Data

Track width: 500mm

Output torque: 36.683 Nm

Gradability degrees: 26.4°

Gearbox ratio: 1:161

Hydraulic motor: 80cc/rev

Approximate speed: 0.6kph (0.37mph)

Total flow per track: 72.6Lpm



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Powerscreen® Chieftain 2100S Options

Specification - Rev 7. 01/01/2013

Double Deck Vibrating Grid

Target area: 3.8m (12' 6") long x 2.2m (7' 3") wide

Bottom deck screen size:

2 of 1.9m (6' 3") x 1.5m (4' 11")

Working angle: 10° - 20° (hyd. adjustable)

Tip angle: 45° max

Motor: 59cc/rev

Circuit: Coupled to main conveyor circuit

Feed in height: 3.94m (12' 11") (side)

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

Transport height: 3.6m (11' 10")

Total weight: 4,000kg (8,818lbs)



Dual Power

Dual Power System:

2 of electric motors: 37 kW (50hp) & 37 kW (50hp)

Diesel engine

Integrated control system

This controls either diesel-hydraulic or electric-hydraulic functions

Note: Electric motors IE2 as standard

IE3 motors for USA subject to availability



Other Options

Different coloured machine

Optional engine

Auto lubrication system

Radio controlled tracking

Anti roll-back

Quick release tensioning for top & middle decks

Double deck vibrating grid

Roll-in bogie

Hydraulic jacking legs

Dust suppression

Extended length auxiliary conveyor

Washing version

Powerscreen® Chieftain 2100S 3 Deck

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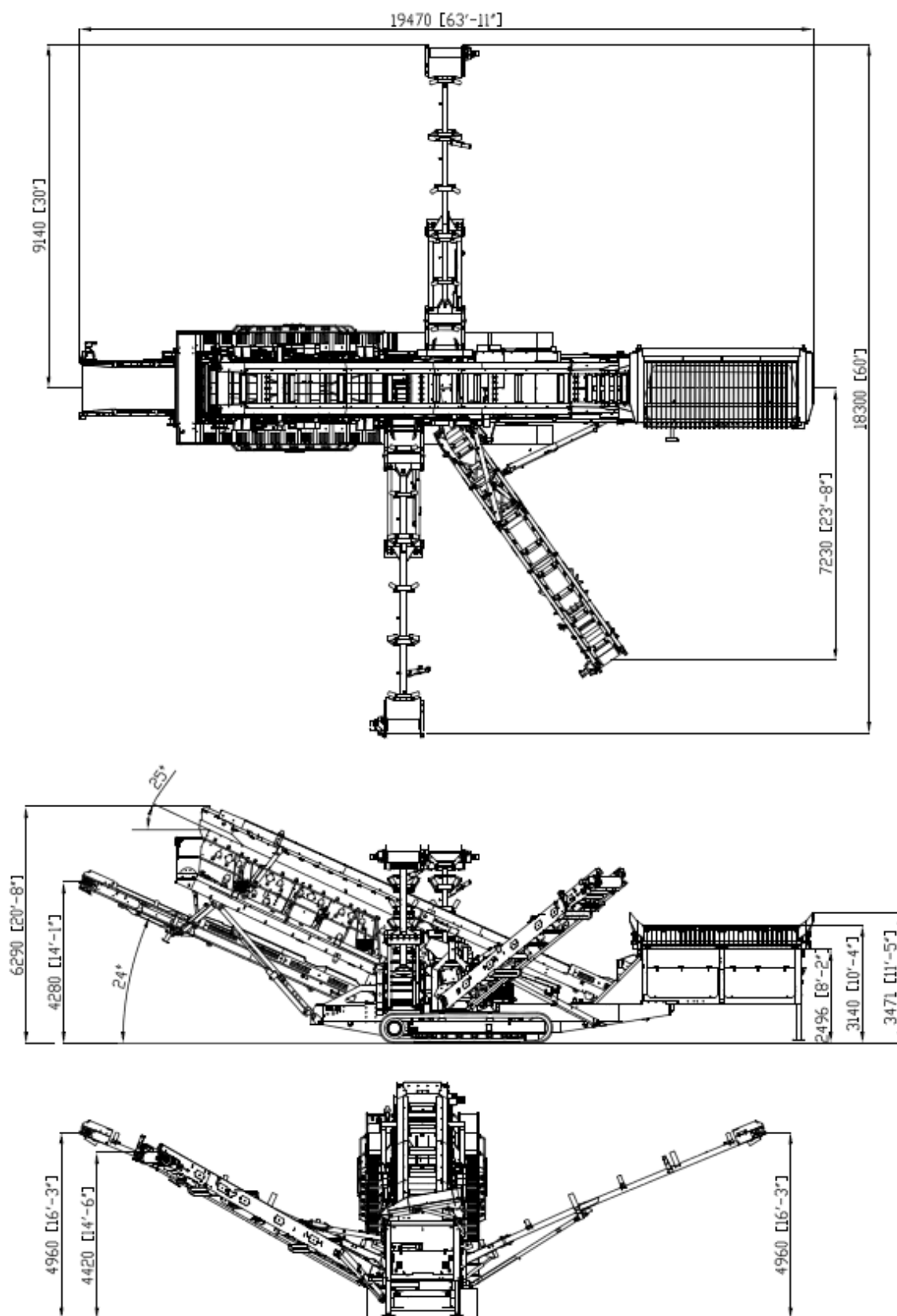


**Figure 1: Chieftain 2100S 3 Deck
Standard Length Auxiliary Conveyor
Working Position**

All specifications subject to change without prior notice



Powerscreen® Chieftain 2100S 3 Deck

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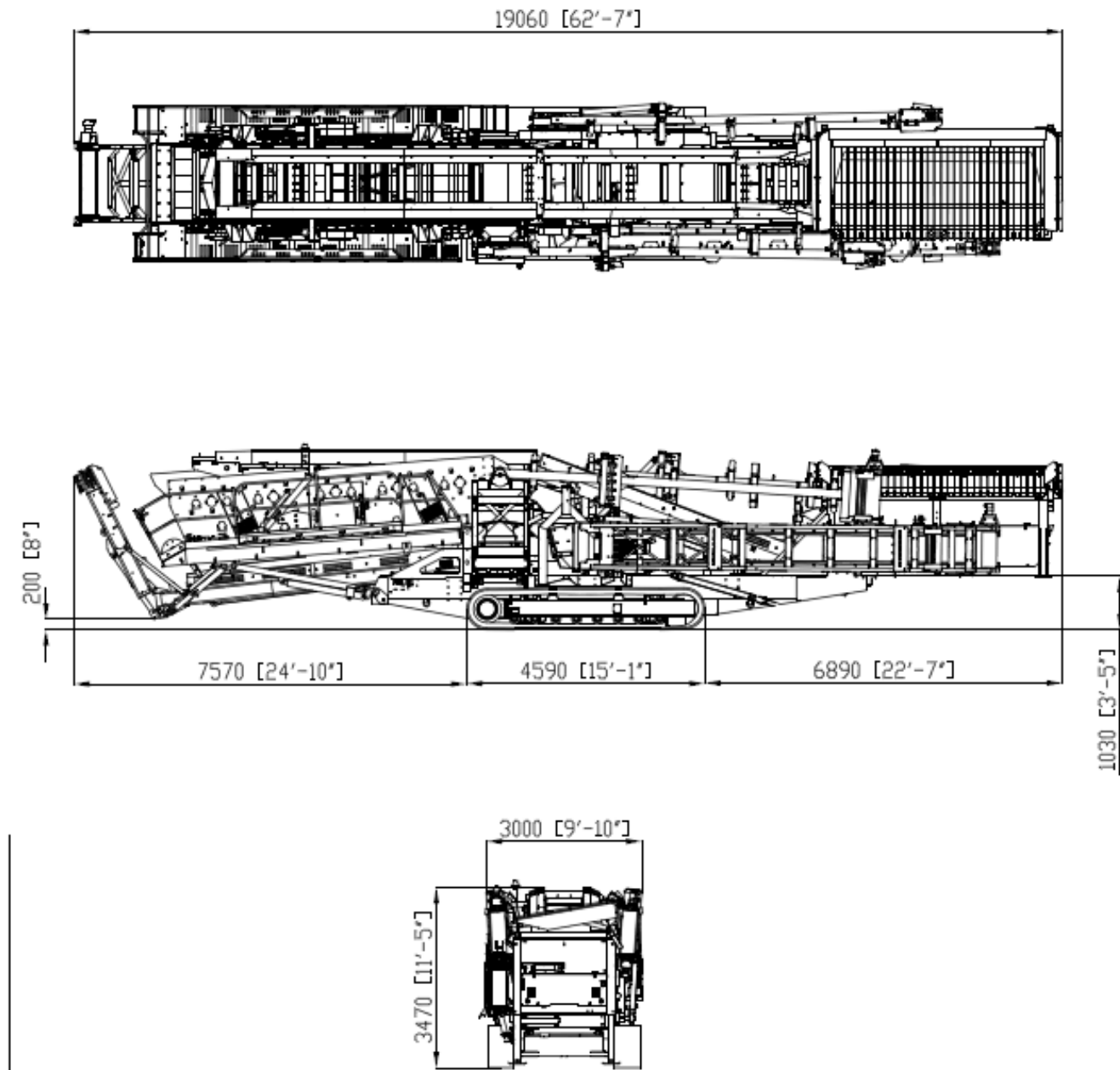


**Figure 2: Chieftain 2100S 3 Deck
Standard Length Auxiliary Conveyor
Transport Position**

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Powerscreen® Chieftain 2100S 3 Deck

Specification - Rev 7. 01/01/2013

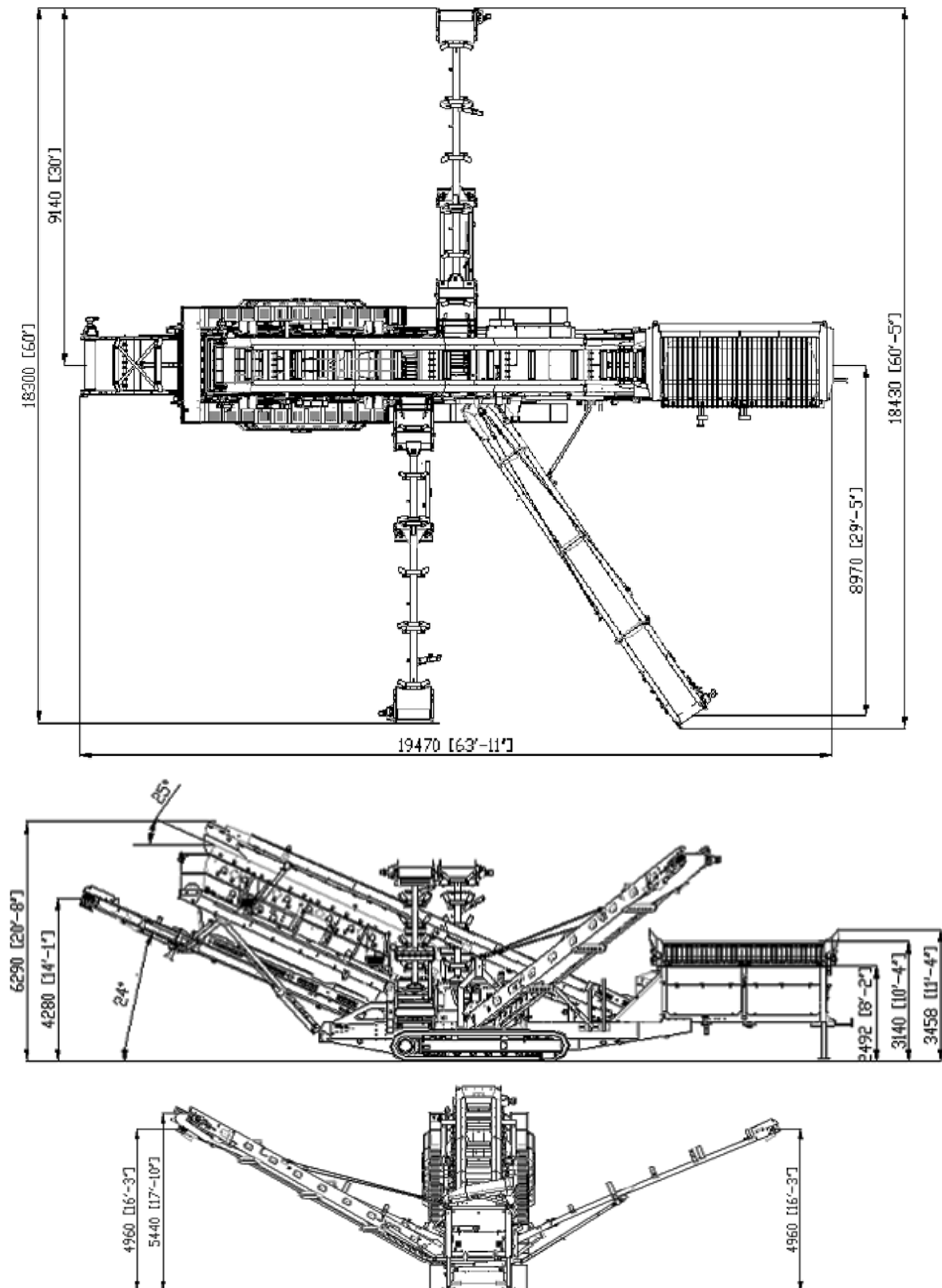


**Figure 3: Chieftain 2100S 3 Deck
Extended Length Auxiliary Conveyor
Working Position**

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Powerscreen® Chieftain 2100S 3 Deck

Specification - Rev 7. 01/01/2013

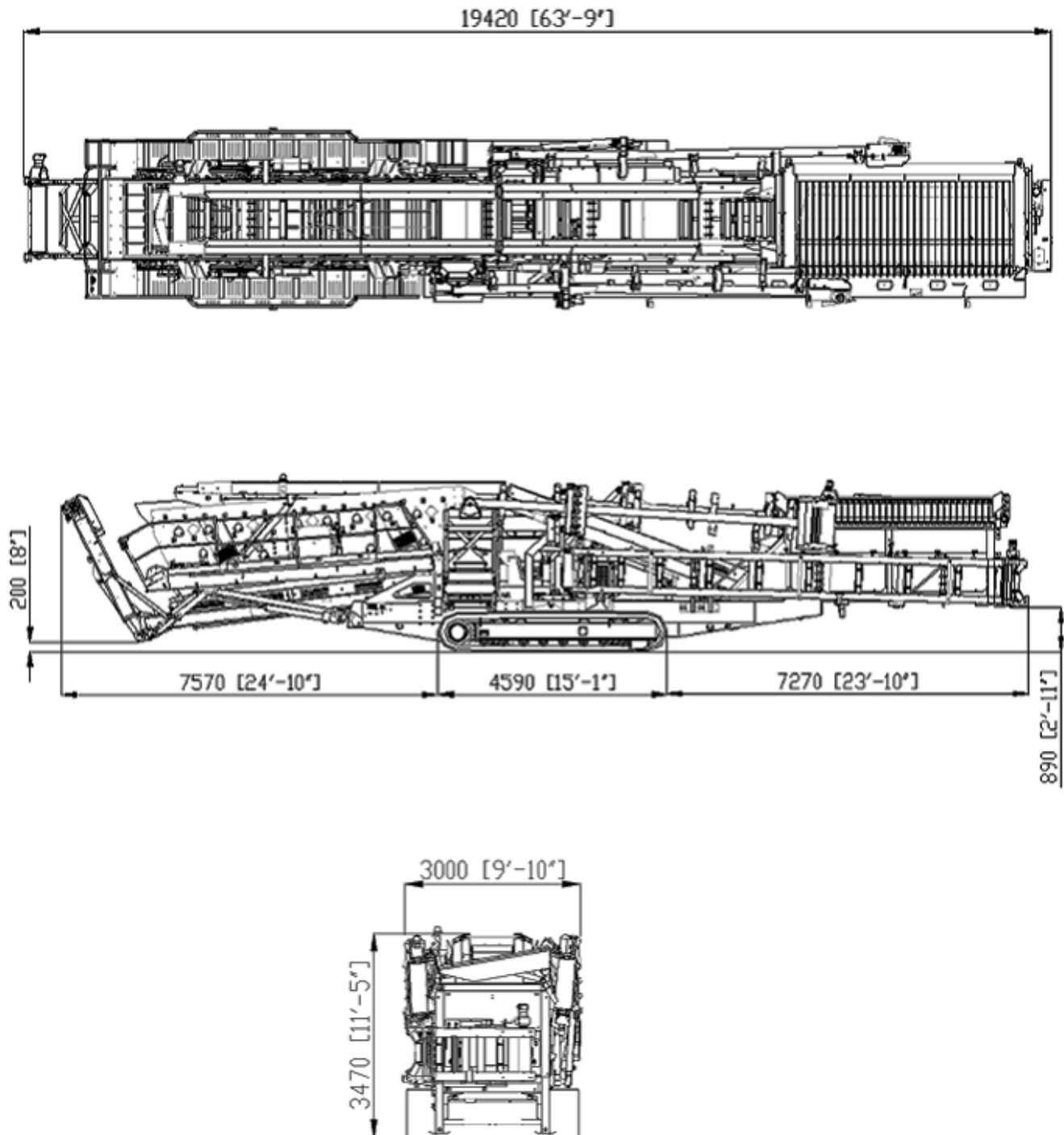


**Figure 4: Chieftain 2100S 3 Deck
Extended Length Auxiliary Conveyor
Transport Position**

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Powerscreen® Chieftain 2100S 3 Deck

Specification - Rev 7. 01/01/2013

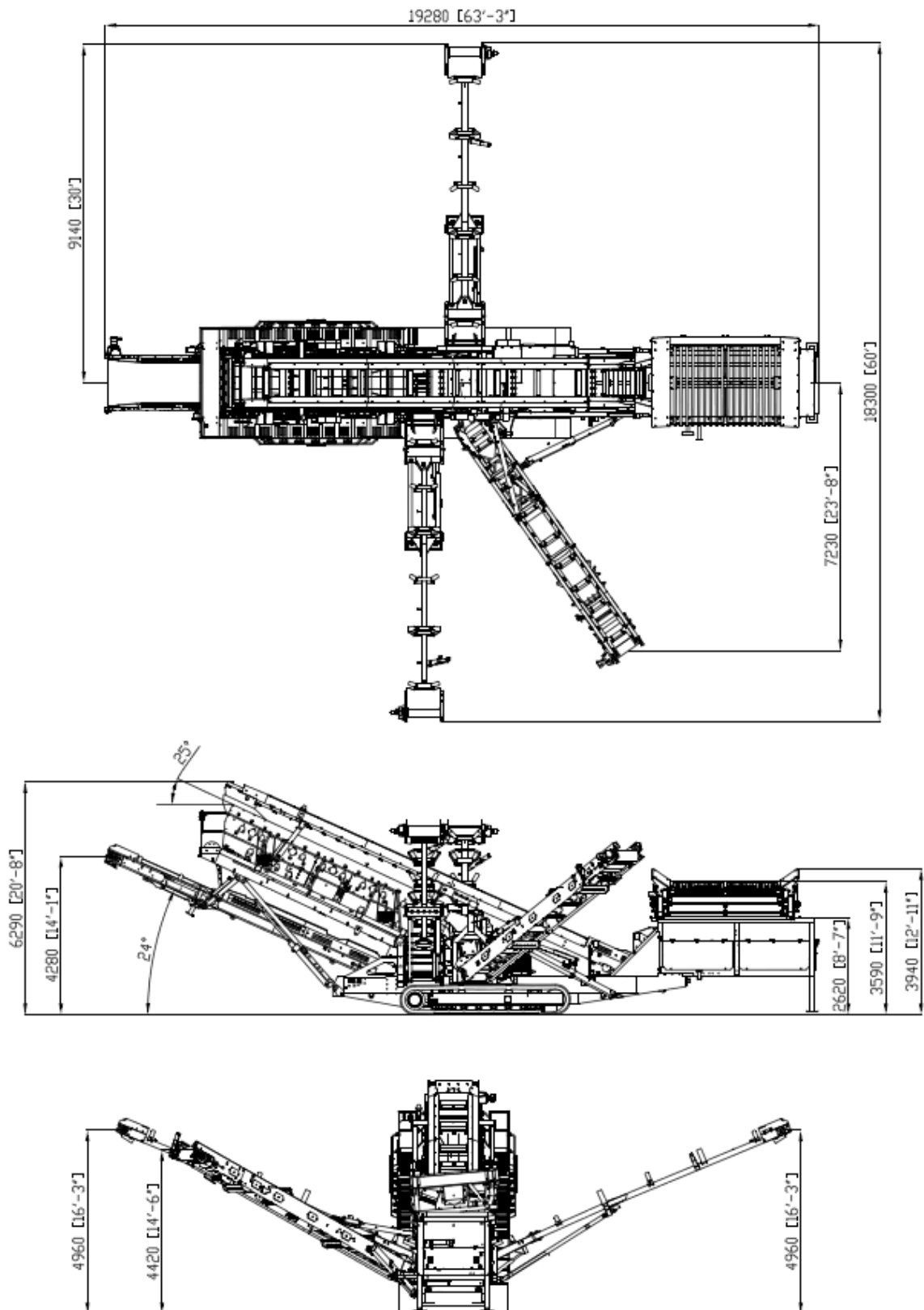


**Figure 5: Chieftain 2100S 3 Deck
Double Deck Vibrating Grid
Standard Length Auxiliary Conveyor
Working Position**

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Powerscreen® Chieftain 2100S 3 Deck

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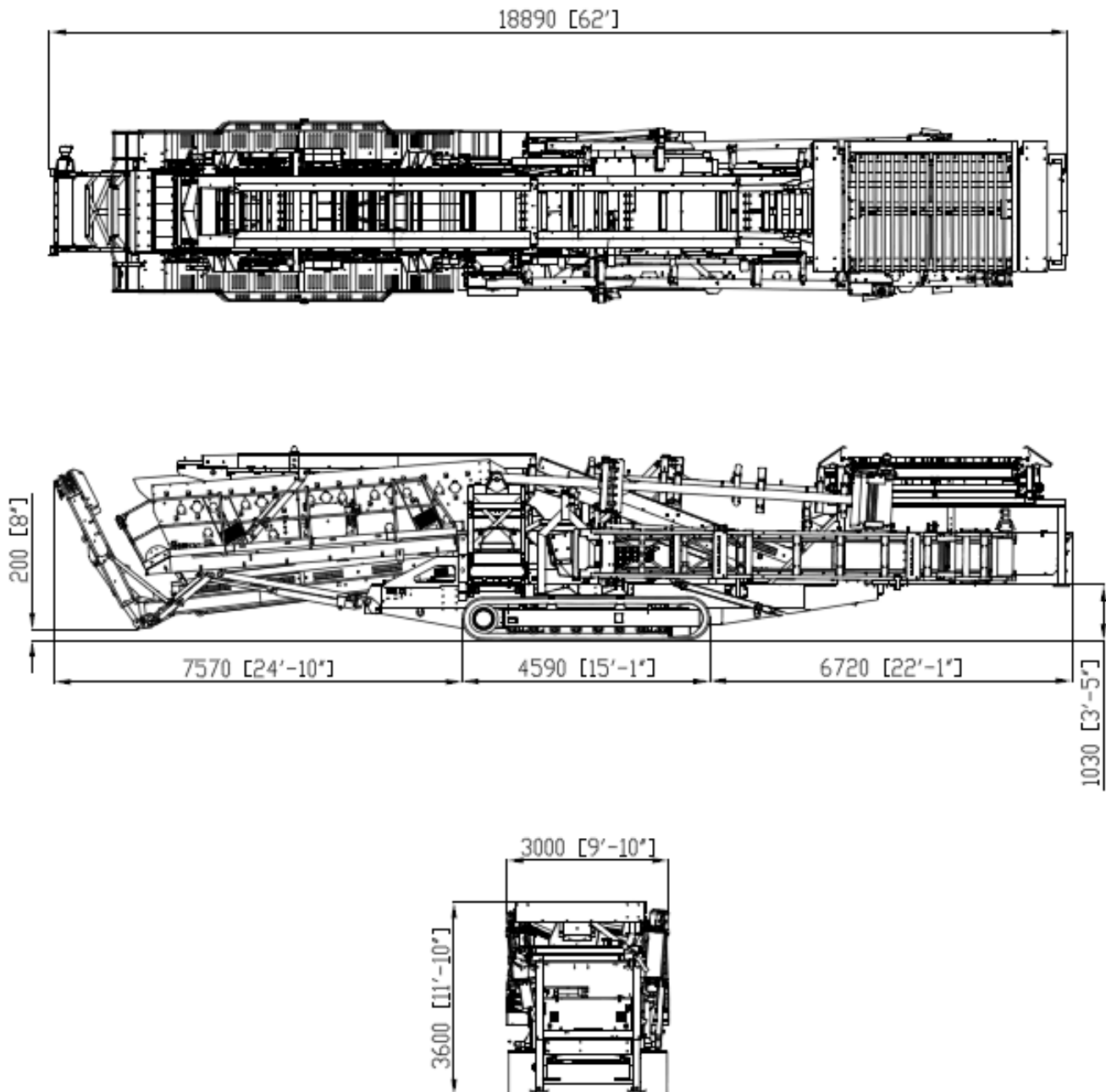


**Figure 6: Chieftain 2100S 3 Deck
Double Deck Vibrating Grid
Standard Length Auxiliary Conveyor
Transport Position**

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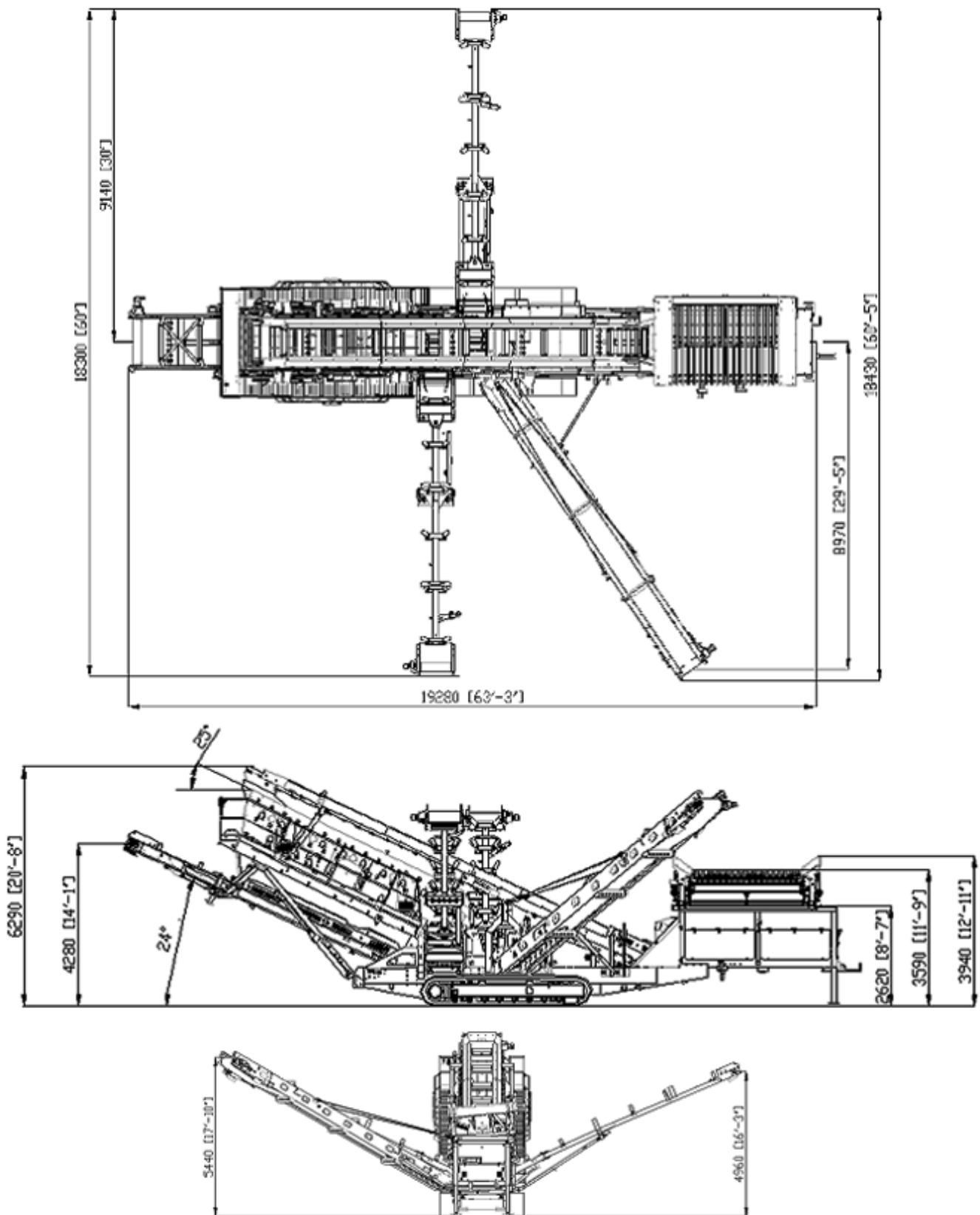


**Figure 7: Chieftain 2100S 3 Deck
Double Deck Vibrating Grid
Extended Length Auxiliary Conveyor
Working Position**

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Powerscreen® Chieftain 2100S 3 Deck

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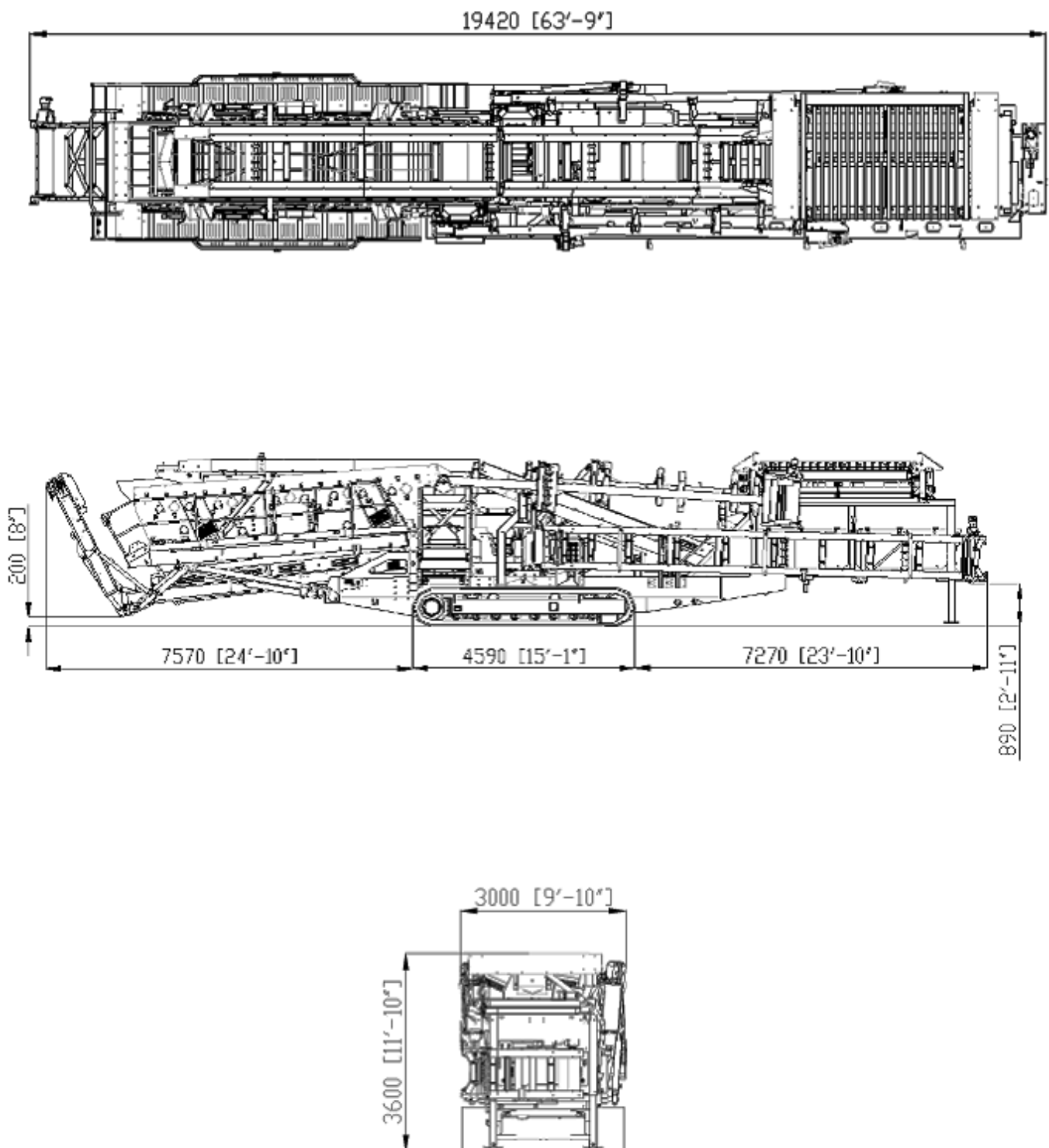


**Figure 8: Chieftain 2100S 3 Deck
Double Deck Vibrating Grid
Extended Length Auxiliary Conveyor
Transport Position**

All specifications subject to change without prior notice



Powerscreen® Chieftain 2100S 3 Deck

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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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