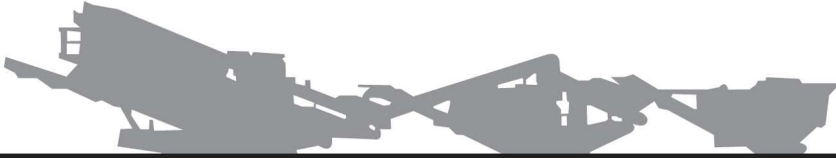


# Powerscreen® Chieftain 1700S

## 3 Deck Incline Screen

Specification - Rev 5. 01/01/2013



# Powerscreen® Chieftain 1700S 3 Deck

Specification - Rev 5. 01/01/2013

## Specification

		14ft Hopper (with grid) wheel	14ft Hopper (with grid) track
<b>Total weight</b>		27,500kgs (60,627lbs)*	29,800kg (65,698lbs)*
<b>Transport</b>	<b>Length</b>	16.81m (55' 2")	16.53m (54' 3")
	<b>Width</b>	3.00m (9' 10")	3.0m (9' 10")
	<b>Height</b>	3.88m (12' 9")	3.5m (11' 6")
<b>Working</b>	<b>Length</b>	17.22m (56' 6")	17.22m (56' 6")
	<b>Width</b>	17.32m (56' 10")	17.32m (56' 10")
	<b>Height</b>	6.19m (20' 4")	5.89m (19' 4")
<b>Screenunit</b>		4.8m x 1.5m (16' x 5')	4.8m x 1.5m (16' x 5')
<b>Powerunit</b>		Diesel / Hydraulic	Diesel / Hydraulic
<b>Plant Colour</b>		RAL 5021	RAL 5021

## Features & Benefits

- High capacity up to 500 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 & 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 1700S 3 Deck

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## Hopper & Grid

Target area: 4.85m (15' 10") long x 1.85m (6') wide  
Grid aperture: 102mm (4")

Hopper capacity: 7.5m<sup>3</sup> (9.8 cu. yd.)

Adjustable angle tipping grid with integral loading and wing plates

Feed in height: 3.65m (11' 11") (side)

Feed in height: 3.33m (10' 11") (rear)

## Feed Conveyor

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

4.09m (13' 5") drum centres

350mm (13.5") drum diameter (drive)

320mm (12.5") 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

Variable speed control

Angle adjustment: 23° - 27°

## Screenbox

4.8m x 1.53m (16' x 5') 3 deck incline screen

Highly aggressive screen drive

Grease filled 2 bearing screenbox

4.8m x 1.53m (16' x 5') top & middle deck

4.3m x 1.53m (14' x 5') bottom deck

4 of media sections (side tension) top/middle deck

2 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



All specifications subject to change without prior notice



# Powerscreen® Chieftain 1700S 3 Deck

Specification - Rev 5. 01/01/2013

## Finesize - Tail Conveyor

1200mm (48") wide 3 ply plain belt  
6.87m (22' 6") drum centres  
286mm (11") drum diameter (drive)  
270mm (10") drum diameter (tail)

4.23m (13' 10") stockpile height (to drum centre) T  
113m<sup>3</sup> (148 cu. yd.) stockpile volume

4.59m (15' 1") stockpile height (to drum centre) W  
144m<sup>3</sup> (188 cu. yd.) stockpile volume

Variable speed  
Hydraulically folding  
Chevron belt as option  
Angle adjustment: 0° - 25°



## Mid-finesize & Mid-oversize - Side Conveyors

650mm (26") wide 3 ply chevron belt  
9.67m (31' 8") drum centres  
286mm (11") drum diameter (drive)  
270mm (10") drum diameter (tail)

4.72m (15' 6") stockpile height (to drum centre) T  
157m<sup>3</sup> (205 cu. yd.) stockpile volume

5.08m (16' 8") stockpile height (to drum centre) W  
195m<sup>3</sup> (255 cu. yd.) stockpile volume

Variable speed control on each conveyor  
Hydraulically folding  
Fixed angle: 25°



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# Powerscreen® Chieftain 1700S 3 Deck

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## Oversize - Auxiliary Conveyor (std)

650mm (26") wide 3 ply chevron belt  
7.25m (23' 9") drum centres (standard length)  
286mm (11") drum diameter (drive)  
203mm (8") drum diameter (tail)

3.93m (12' 11") stockpile height (to drum centre) T  
90m<sup>3</sup> (118 cu. yd.) stockpile volume

4.3m (14' 1") stockpile height (to drum centre) W  
119m<sup>3</sup> (156 cu. yd.) stockpile volume

Variable speed control  
Hydraulic folding  
Fixed angle: 25°



## Oversize - Auxiliary Conveyor (ext)

650mm (26") wide 3 ply chevron belt  
10.26m (33' 7") drum centres (extended length)  
286mm (11") drum diameter (drive)  
203mm (8") drum diameter (tail)

5.22m (17' 2") stockpile height (to drum centre) T  
212m<sup>3</sup> (277 cu. yd.) stockpile volume

5.08m (16' 8") stockpile height (to drum centre) W  
195m<sup>3</sup> (255 cu. yd.) stockpile volume

Variable speed control  
Fixed angle: 25°



All specifications subject to change without prior notice





# Powerscreen® Chieftain 1700S 3 Deck

Specification - Rev 5. 01/01/2013

## Powerunit & Hydraulics

### Engine:

CAT C4.4 ATAAC (Tier 3 / Stage 3A) 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 triple 46, 33, 33cc/rev

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

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

### Motors:

Belt feeder: 160cc/rev

Main conveyor: Cast iron 630cc/rev

Tail conveyor: Cast iron 500cc/rev

Side conveyors: Cast iron 500cc/rev

Auxiliary conveyor: Cast iron 400cc/rev

Screen motor: Cast iron 101.8cc/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: 400mm

Output torque: 24,769 Nm

Gradability degrees: 22.4°

Gearbox ratio: 1:127

Hydraulic motor: 63cc/rev

Approximate speed: 0.81kph (0.5mph)

Total flow per track: 72.6 Lpm



All specifications subject to change without prior notice

# Powerscreen® Chieftain 1700S Options

Specification - Rev 5. 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° (hydraulic adjustable)

Tip angle: 45° max

Motor: 59cc/rev

Circuit: Coupled to main conveyor circuit

Feed in height: 3.73m (12' 2") (side)

Feed in height: 3.93m (12' 10") (rear)

Transport height: 3.98m (13') Track

Transport height: 3.98m (13') Wheel

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



## Dual Power

Dual Power System:

2 of electric motors; 37 kW (50hp) & 30 kW (40hp)

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

Quick release wedge tensioning for top & middle deck

Electric wheel version

Anti roll-back

Radio controlled tracking

Roll-in bogie

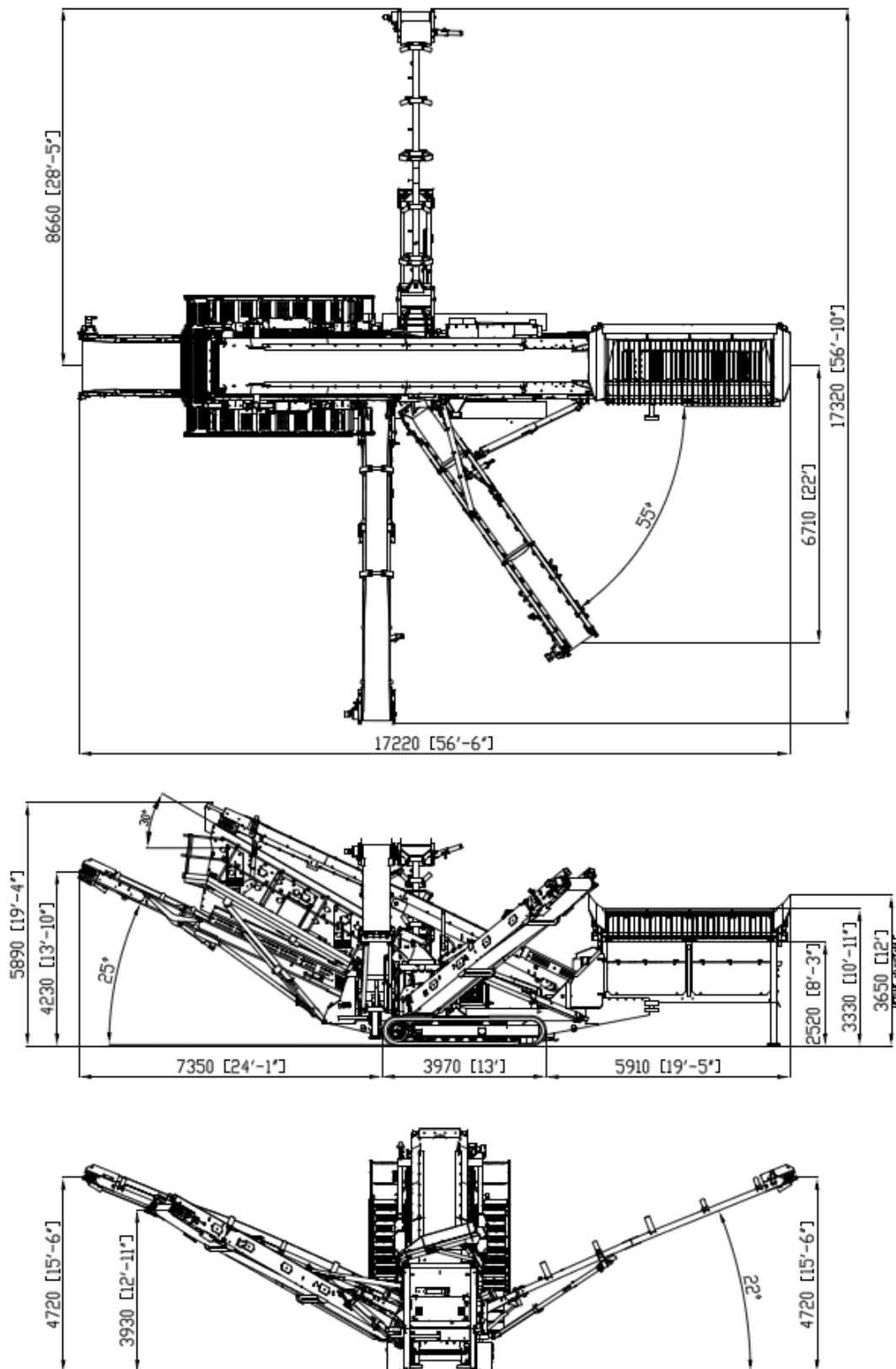
Hydraulic jacking legs

Washing version



# Powerscreen® Chieftain 1700S 3 Deck

Specification - Rev 5. 01/01/2013



**Figure 1: Chieftain 1700S 3 Deck Track  
Standard Length Auxiliary Conveyor  
Working Position**

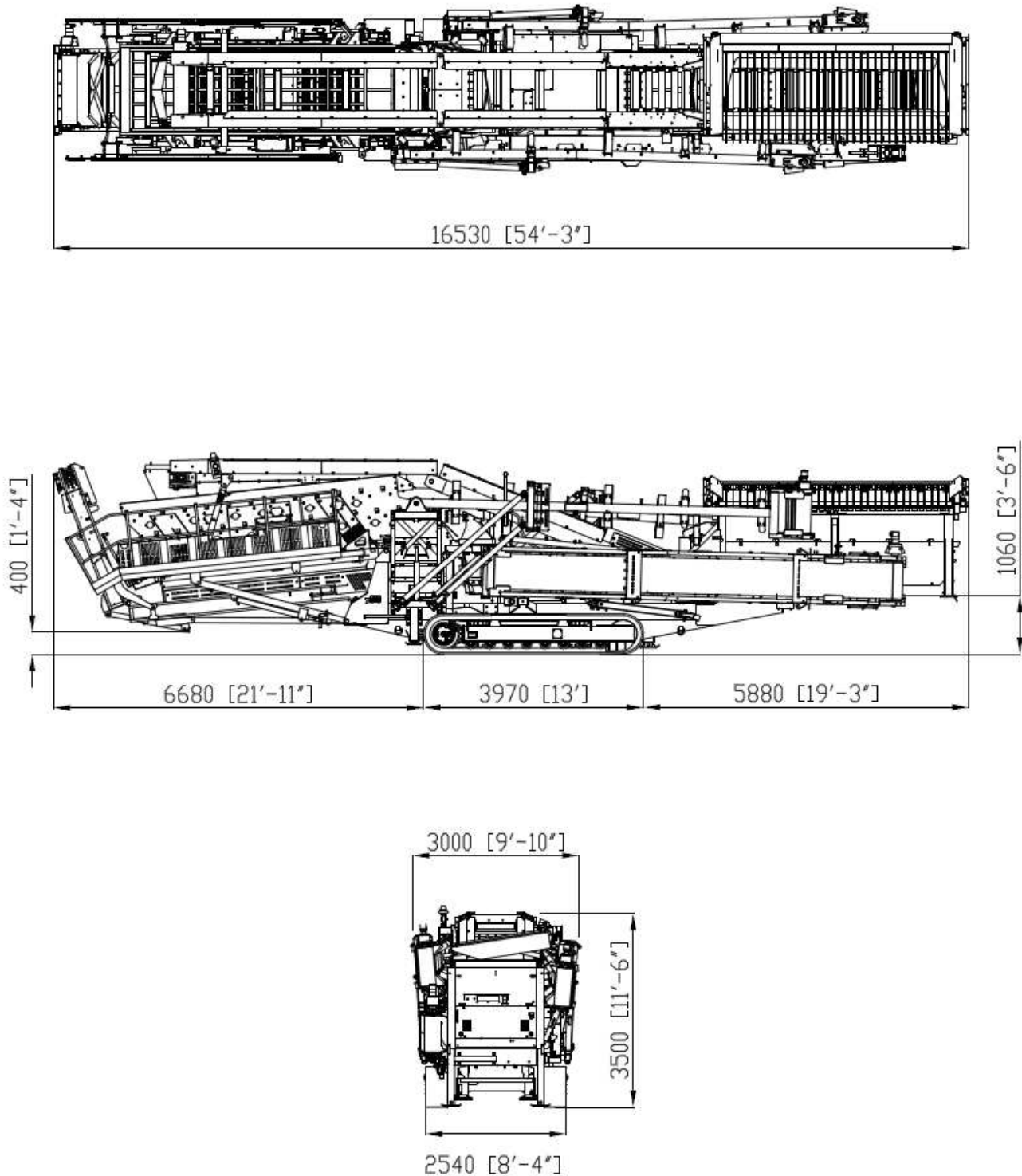
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# Powerscreen® Chieftain 1700S 3 Deck

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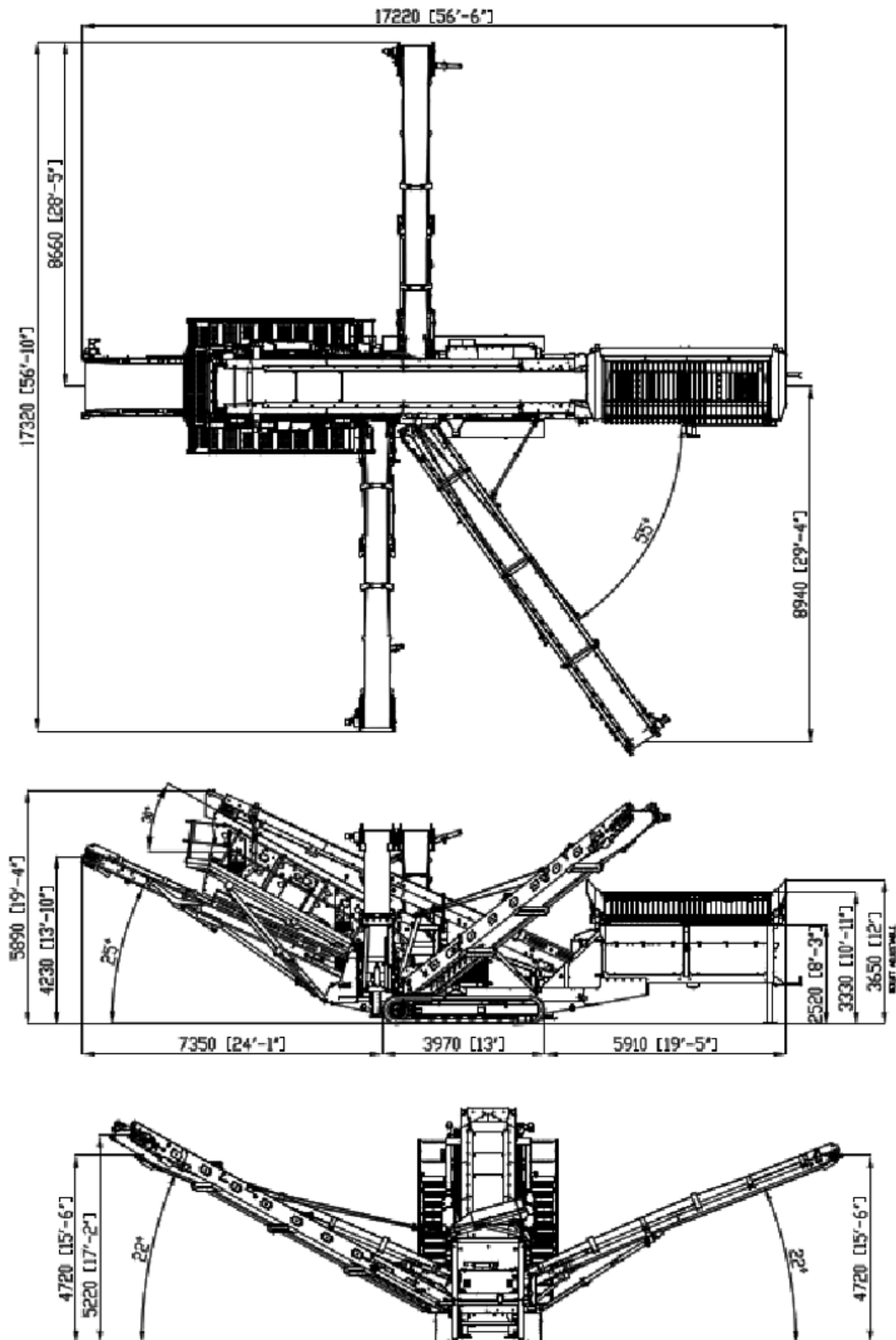
**Figure 2: Chieftain 1700S 3 Deck Track  
Standard Length Auxiliary Conveyor  
Transport Position**

All specifications subject to change without prior notice



# Powerscreen® Chieftain 1700S 3 Deck

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**Figure 3: Chieftain 1700S 3 Deck Track  
Extended Length Auxiliary Conveyor  
Working Position**

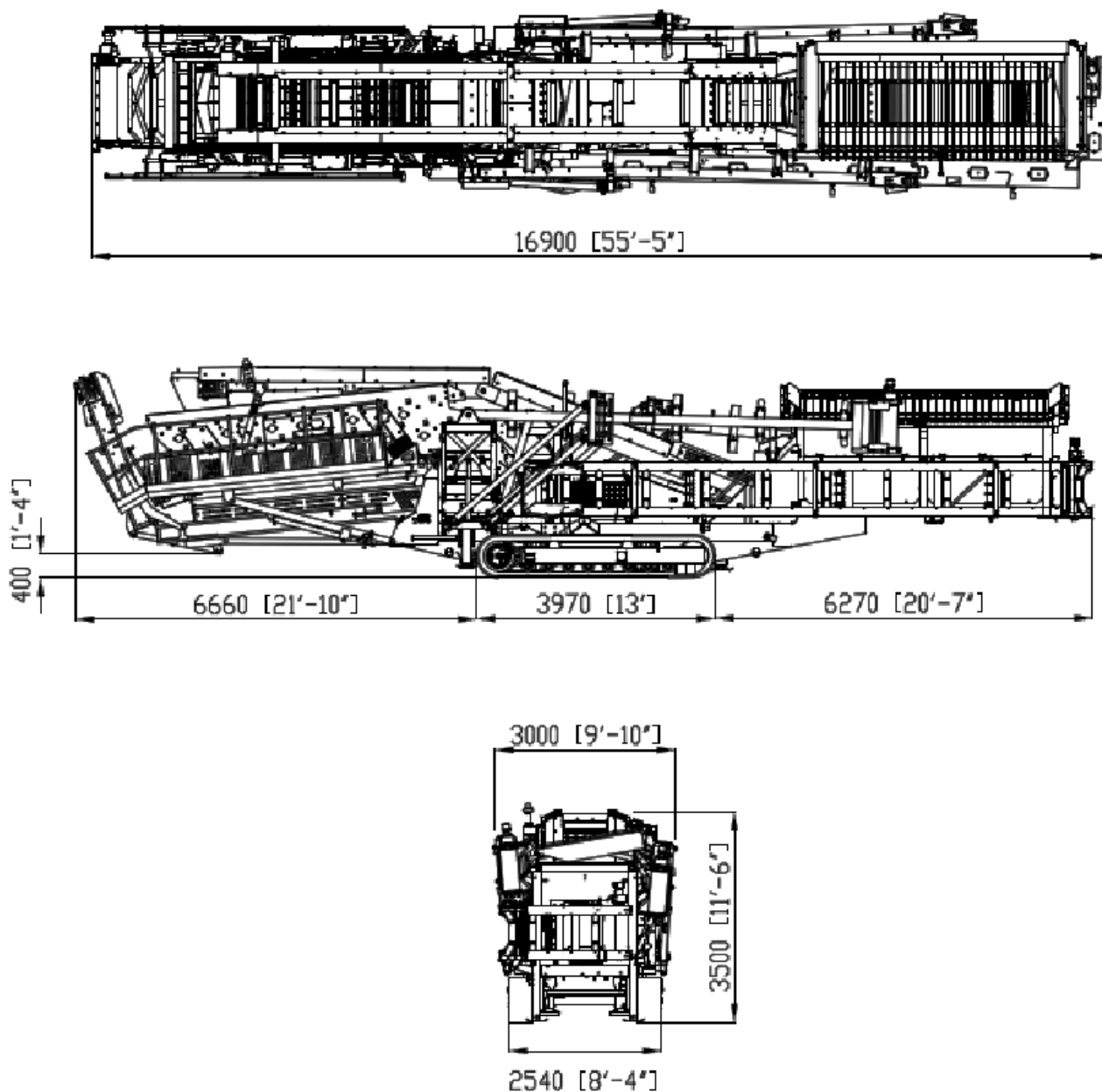
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# Powerscreen® Chieftain 1700S 3 Deck

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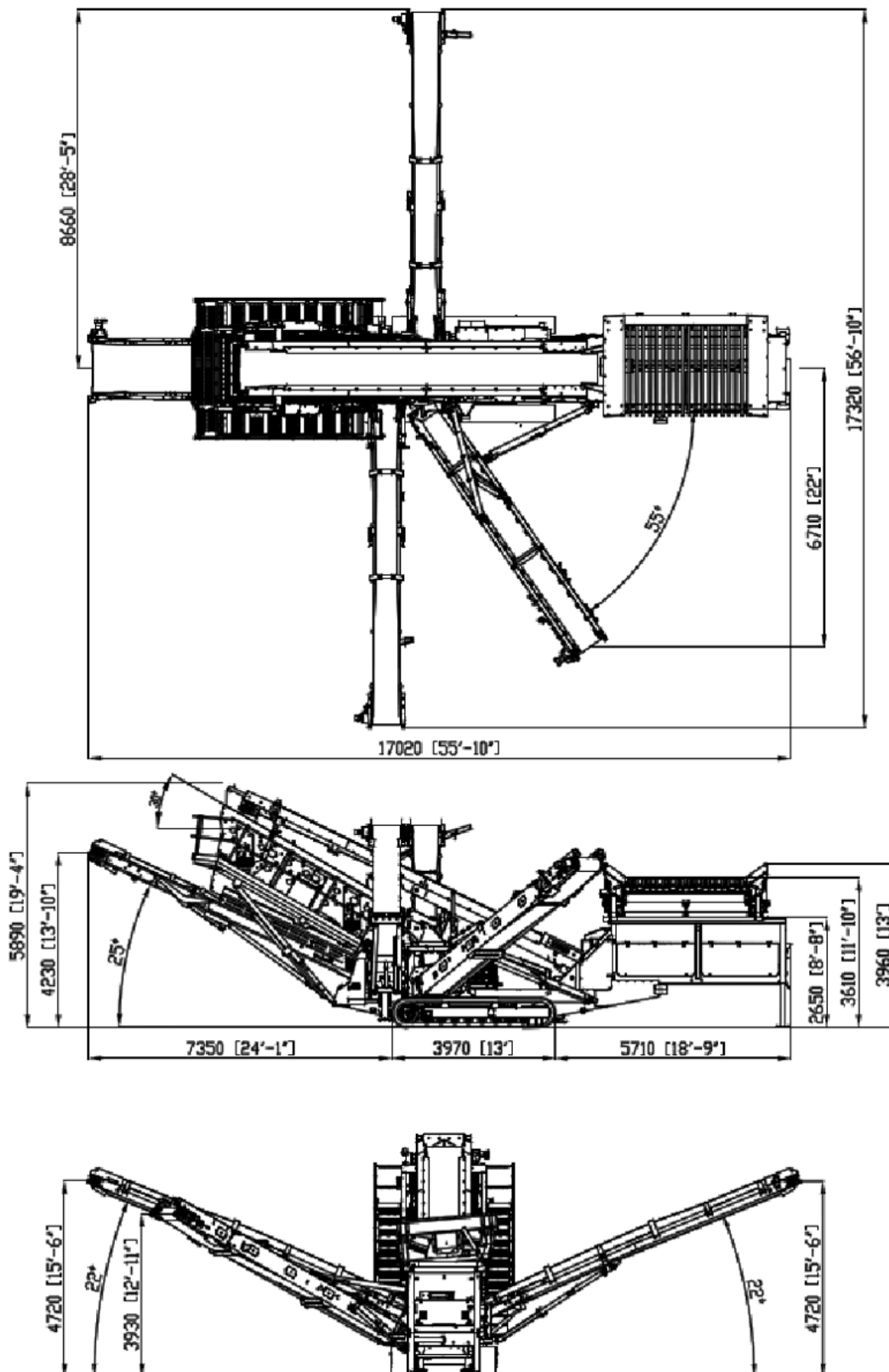
**Figure 4: Chieftain 1700S 3 Deck Track  
Extended Length Auxiliary Conveyor  
Transport Position**

All specifications subject to change without prior notice



# Powerscreen® Chieftain 1700S 3 Deck

Specification - Rev 5. 01/01/2013



**Figure 5: Chieftain 1700S 3 Deck Track  
Double Deck Vibrating Grid  
Standard Length Auxiliary Conveyor  
Working Position**

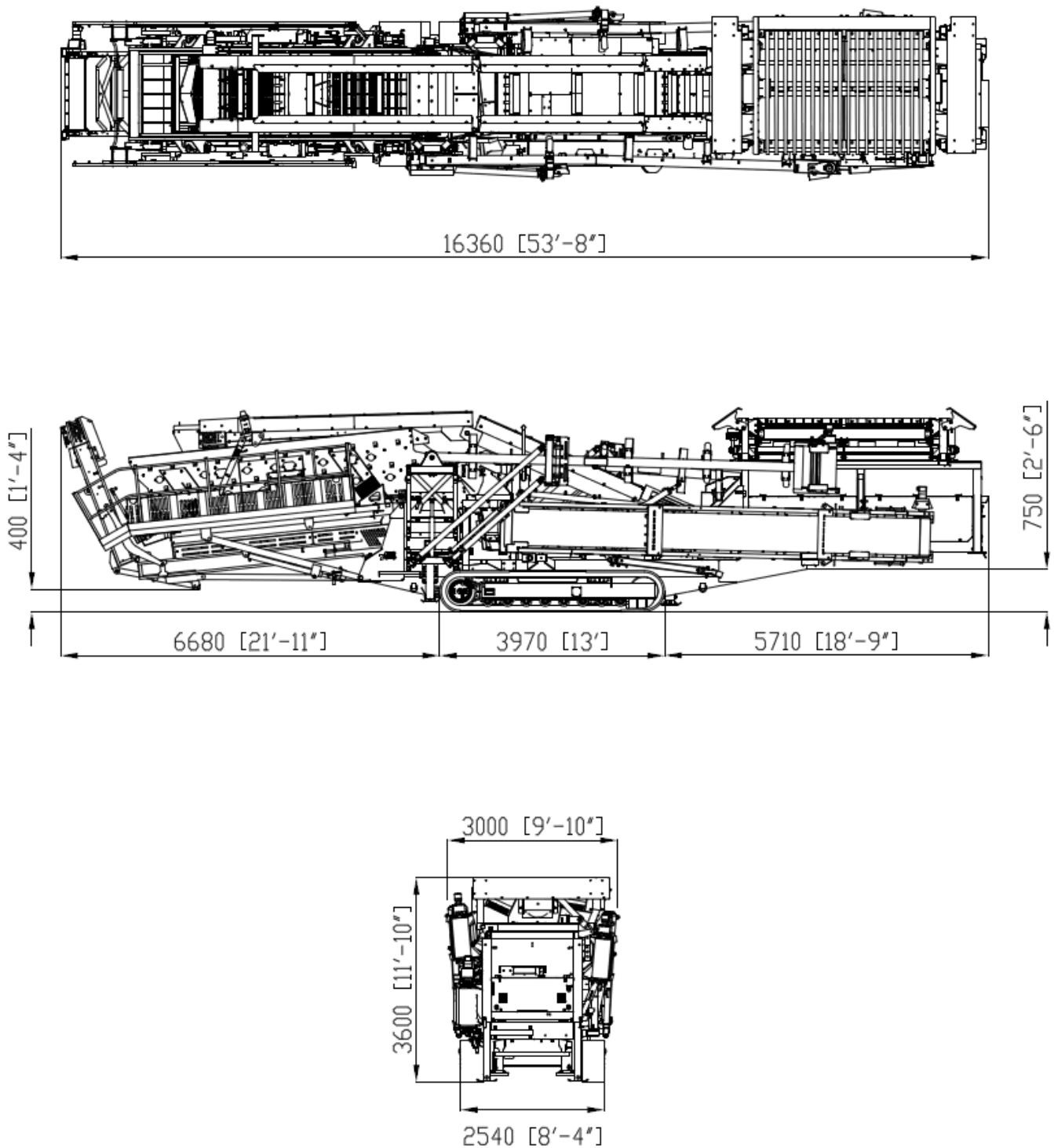
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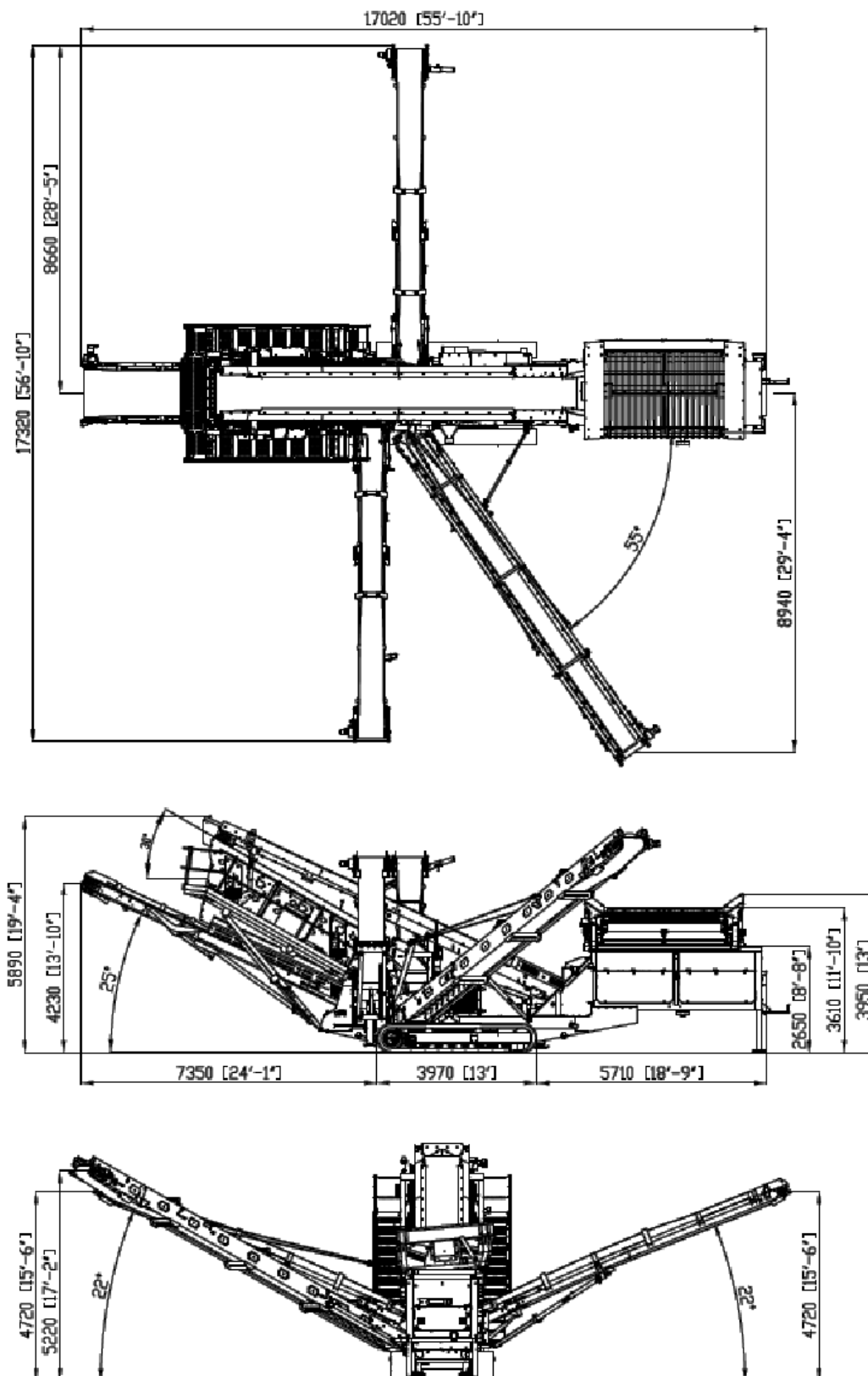
**Figure 6: Chieftain 1700S 3 Deck Track  
Double Deck Vibrating Grid  
Standard Length Auxiliary Conveyor  
Transport Position**

All specifications subject to change without prior notice



# Powerscreen® Chieftain 1700S 3 Deck

Specification - Rev 5. 01/01/2013



**Figure 7: Chieftain 1700S 3 Deck Track  
Double Deck Vibrating Grid  
Extended Length Auxiliary Conveyor  
Working Position**

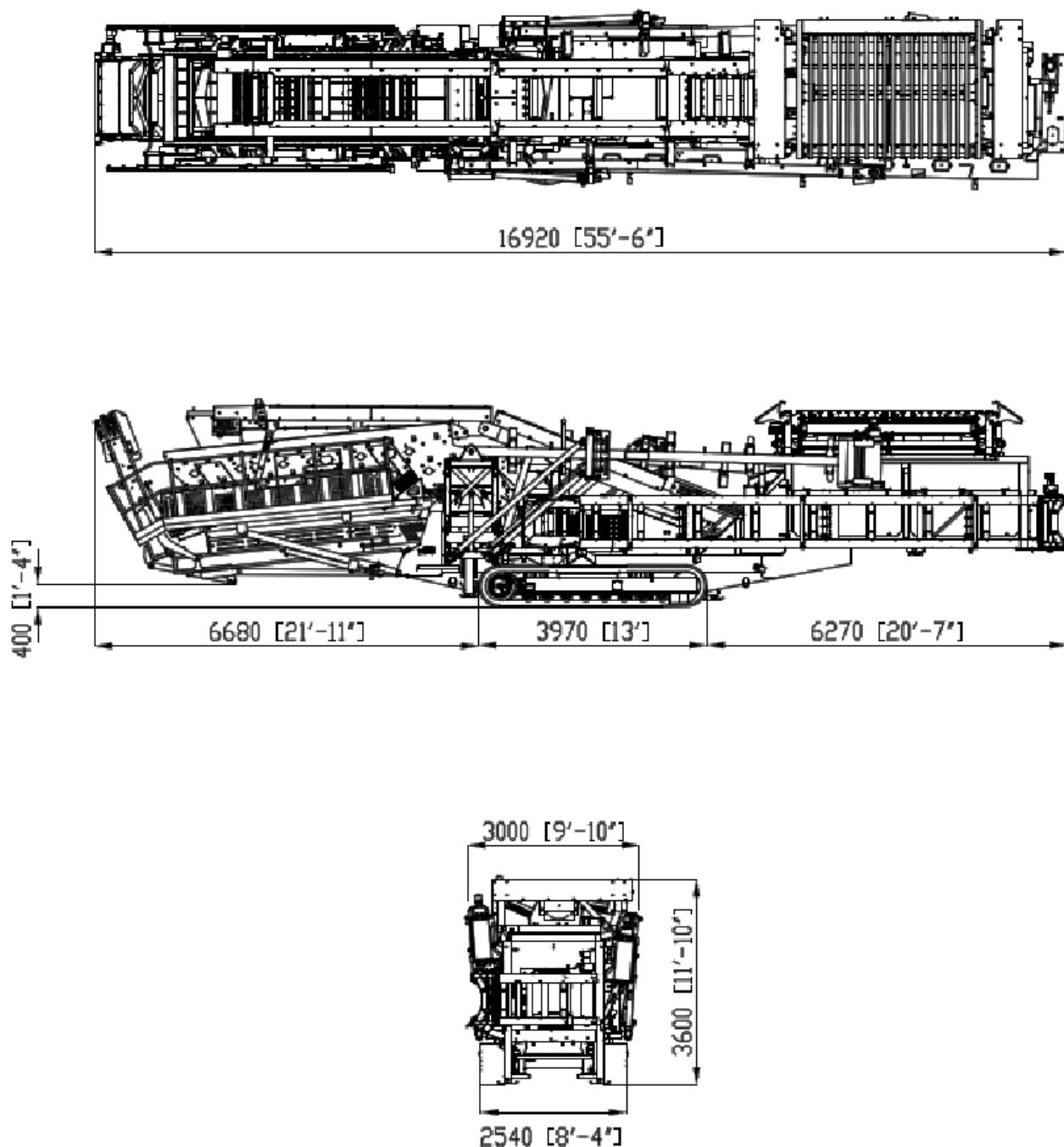
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# Powerscreen® Chieftain 1700S 3 Deck

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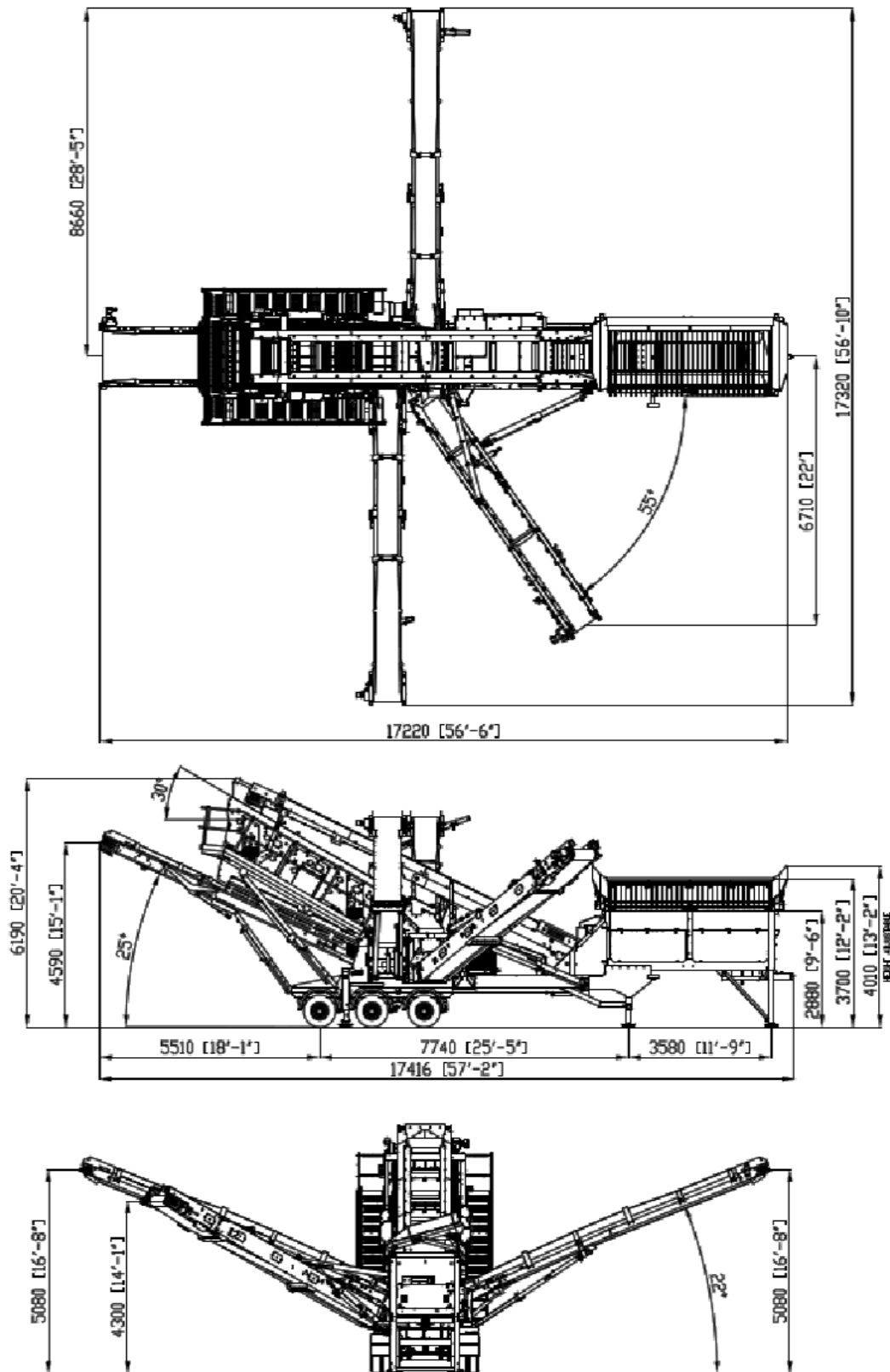
**Figure 8: Chieftain 1700S 3 Deck Track  
Double Deck Vibrating Grid  
Extended Length Auxiliary Conveyor  
Transport Position**

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# Powerscreen® Chieftain 1700S 3 Deck

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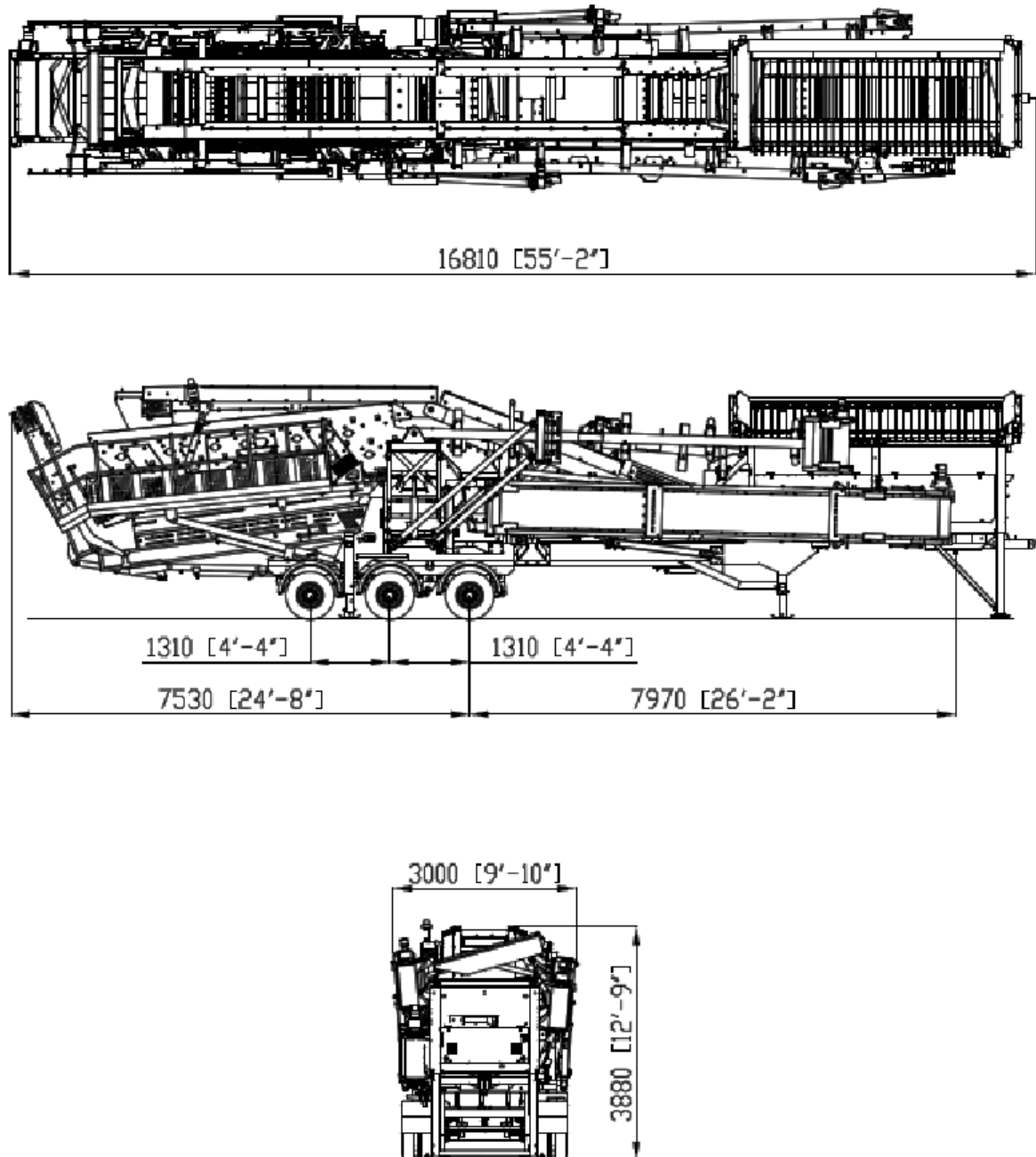
**Figure 9: Chieftain 1700S 3 Deck Wheel  
Standard Length Auxiliary Conveyor  
Working Position**

All specifications subject to change without prior notice



# Powerscreen® Chieftain 1700S 3 Deck

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**Figure 10: Chieftain 1700S 3 Deck Wheel  
Standard Length Auxiliary Conveyor  
Transport Position**

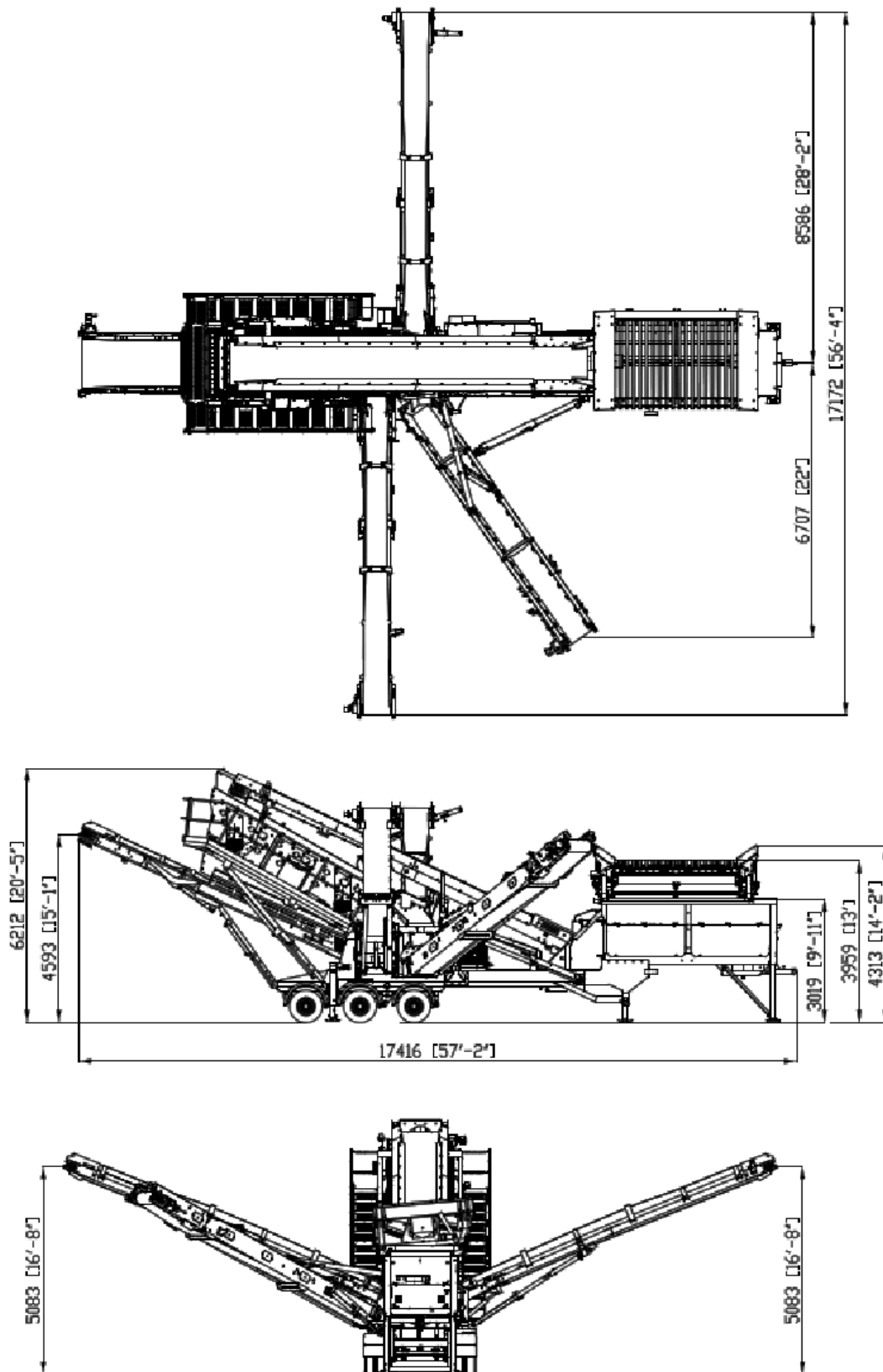
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# Powerscreen® Chieftain 1700S 3 Deck

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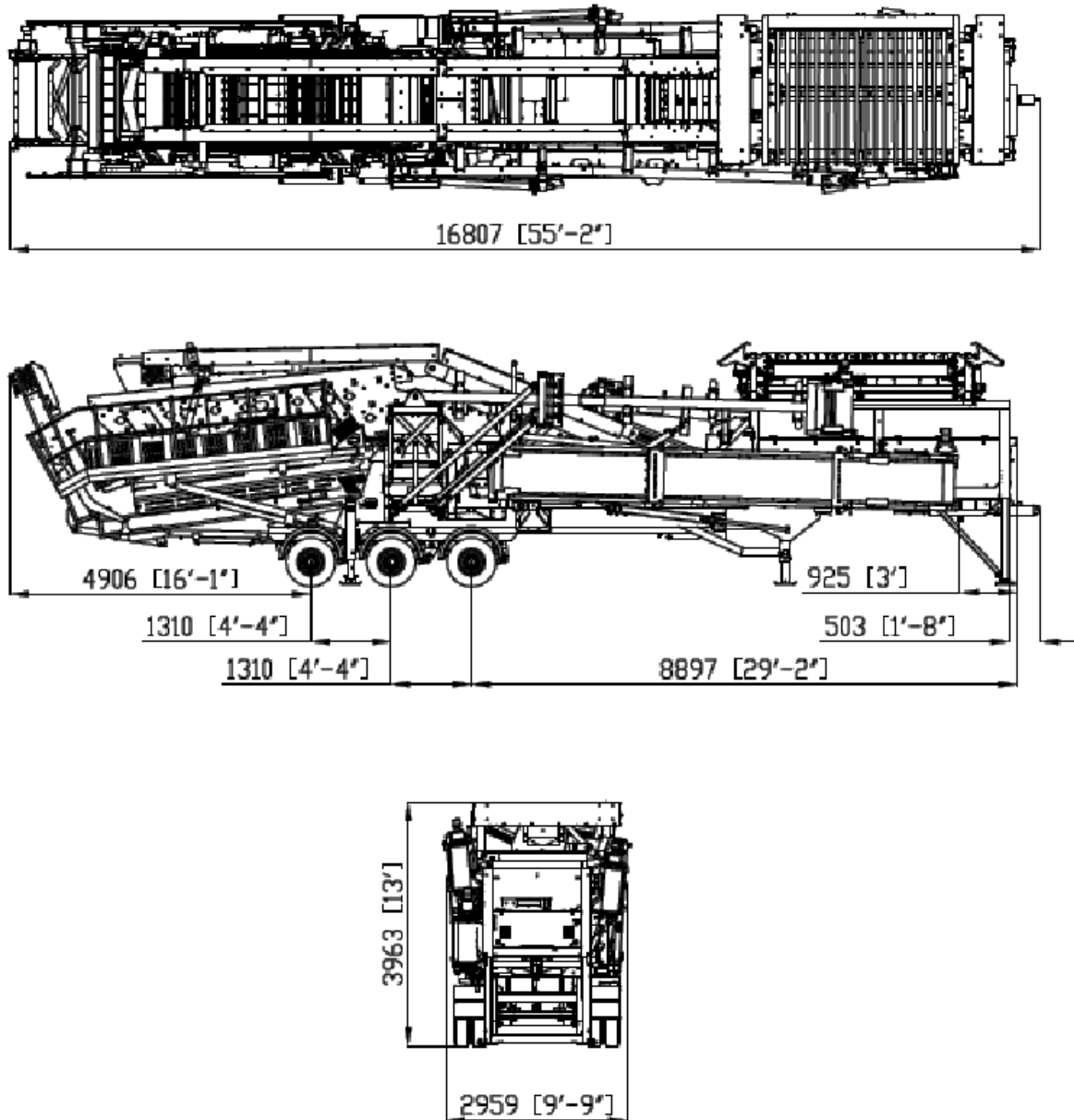
**Figure 11: Chieftain 1700S 3 Deck Wheel  
Double Deck Vibrating Grid  
Standard Length Auxiliary Conveyor  
Working Position**

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# Powerscreen® Chieftain 1700S 3 Deck

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**Figure 12: Chieftain 1700S 3 Deck Wheel  
Double Deck Vibrating Grid  
Standard Length Auxiliary Conveyor  
Transport Position**

All specifications subject to change without prior notice



# Powerscreen® Chieftain 1700S 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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