

# POWERSCREEN® CHIEFTAIN 2200

3 DECK INCLINE DOUBLE SCREEN



TECHNICAL SPECIFICATION - REV 2. 01/01/2019





## CHIEFTAIN 2200 3 DECK



# OVERVIEW

### SPECIFICATION

	14ft Hopper (with grid) track	14ft Hopper (with double deck vibrating grid) track
<b>Total weight</b>	39,400kg (86,862lbs)	43,150kg (95,129lbs)
<b>Transport</b>	<b>Length</b> 19.8m (64' 11")	19.65m (64' 6")
	<b>Width</b> 3m (9' 10")	3m (9' 10")
	<b>Height</b> 3.6m (11' 9")	3.6m (11' 9")
<b>Working</b>	<b>Length</b> 20.14m (66' 1")	20.00m (65' 7")
	<b>Width</b> 18.25m (59' 11")	18.25m (59' 11")
	<b>Height</b> 7.41m (24' 4")	7.41m (24' 4")
<b>(screenbox at 35°)</b>		
<b>Screenboxes</b>	Top: 2 of 3.3m x 1.55m (11' x 5')	Top: 2 of 3.3m x 1.55m (11' x 5')
	Middle: 2 of 3.3m x 1.55m (11' x 5')	Middle: 2 of 3.3m x 1.55m (11' x 5')
	Bottom: 2 of 3m x 1.55m (10 x 5')	Bottom: 2 of 3m x 1.55m (10' x 5')
<b>Power Unit</b>	Diesel / Hydraulic	Diesel / Hydraulic
<b>Plant Colour</b>	RAL 5021, RAL 7024 & RAL 9005	RAL 5021, RAL 7024 & RAL 9005

(Weights & dimensions are approximate base unit values)

### FEATURES & BENEFITS

- High capacity up to 700 tph / 772 US tph (depending on media sizes & material type)
- Maximum feed size 150mm (6")
- Engine protection shutdown system
- Power unit featuring a transverse engine arrangement to aid access & serviceability
- Heavy duty double screenboxes with adjustable stroke, angle & speed
- Fixed angle of 7° between screenboxes
- Ability to easily change between 2 and 4 bearings using patent pending drive system
- Quick release hydraulic screen tensioning
- Screen mesh access system for quicker mesh changes
- Maximum mobility with heavy duty, low ground pressure crawler tracks
- 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, angle adjustable and fully riveted construction
- Hydraulically folding conveyors for transport
- Fines conveyor drop down facility to aid bottom deck mesh access
- Hydraulic walkway fold out mechanism using screen tensioning system

### APPLICATIONS



**Aggregate**  
Sand & gravel  
Blasted rock  
River rock



**Recycling**  
Top soil  
C&D waste  
Composted materials  
Wood by-products  
Overburden



**Mining**  
Processed ores  
Processed minerals



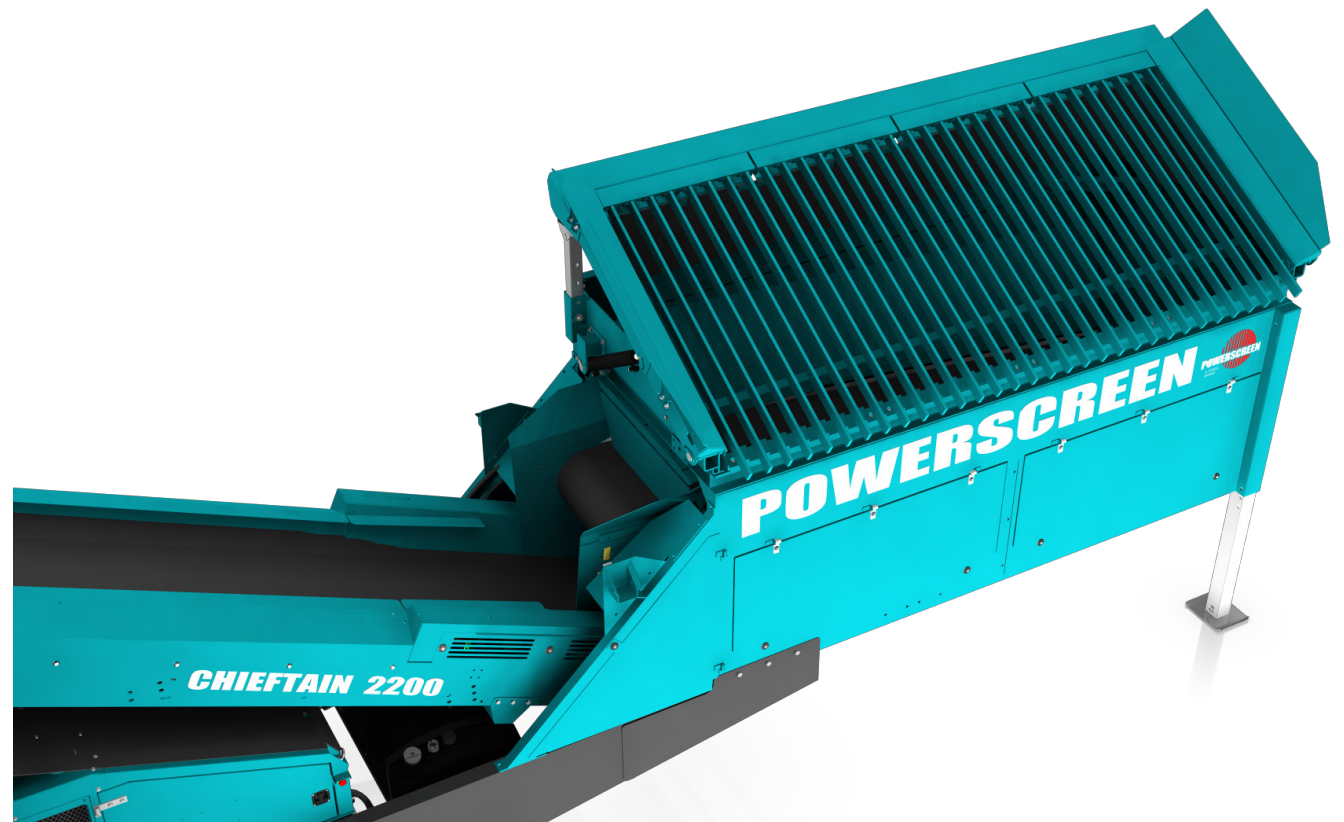
## CHIEFTAIN 2200 3 DECK



# HOPPER & GRID

Target area: 4.75m (15' 7") long x 2.15m (7' 1") wide  
Grid aperture: 108mm (4.3")

Hopper capacity: 7m<sup>3</sup> (9.15 cu. yd.)  
Adjustable angle tipping grid with integral loading & wing plates  
Feed in height with grid: 3.7m (12' 2") (rear)  
Feed in height without grid: 2.65m (8' 8") (rear)





## CHIEFTAIN 2200 3 DECK



# ↓ SCREENBOXES

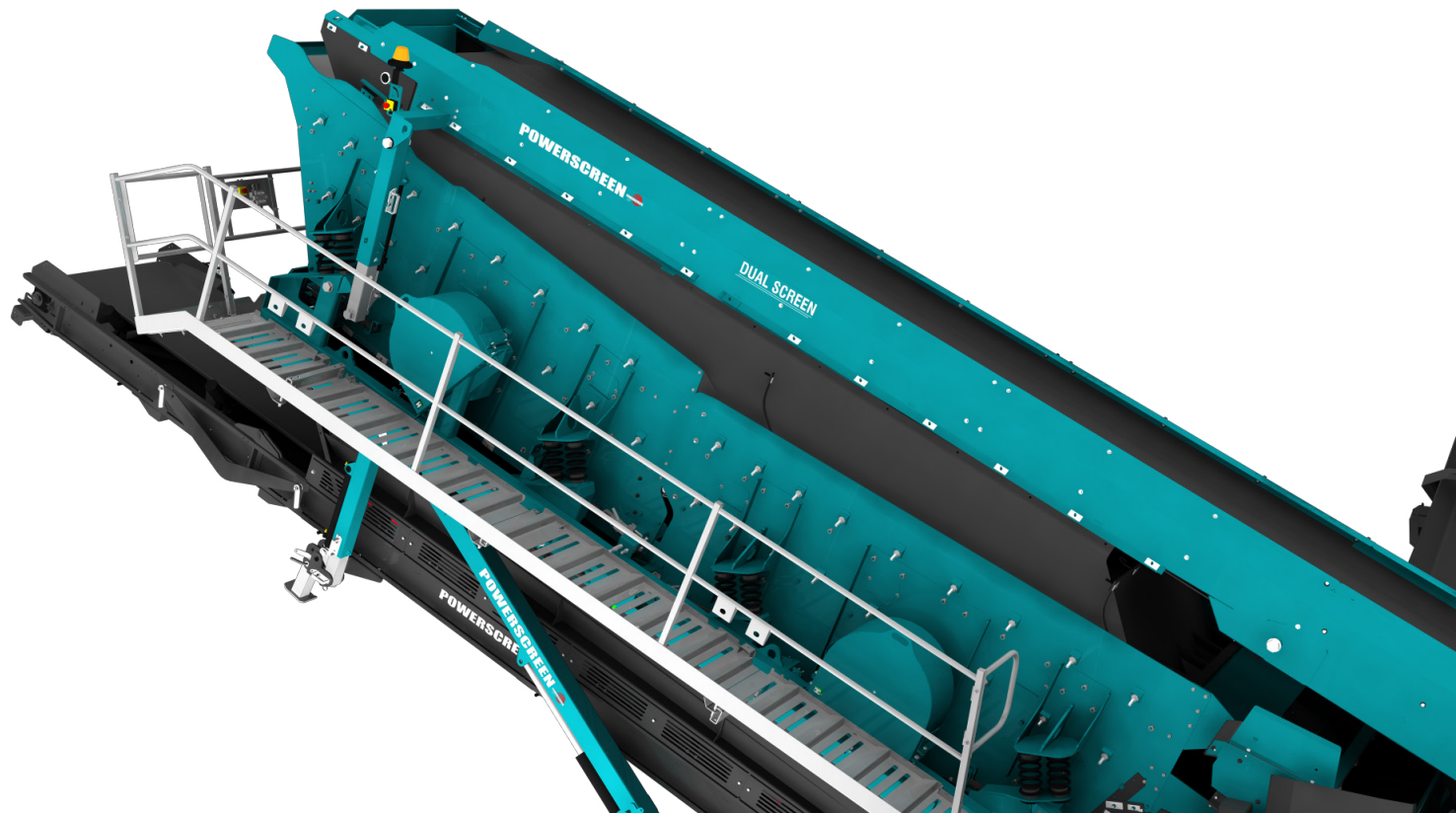
2 of 3.3 m x 1.55m (11' x 5') 3 deck incline screens  
Highly aggressive screen drive  
Grease filled 4 Bearing setup

6.7m x 1.55m (22' x 5') top deck total  
6.7m x 1.55m (22' x 5') middle deck total  
6.1m x 1.55m (20' x 5') bottom deck total

3 of media sections (side tension) top & middle deck per screenbox - 6 Total  
2 of media sections (end tension) bottom deck per screenbox - 4 Total  
Hydraulic screen angle adjustment : 25° - 35°  
Galvanised walkways on 3 sides of screenbox

**Speed:** 1140rpm (standard)

**Throw:** 6.5mm (standard)







## CHIEFTAIN 2200 3 DECK



# ↓ CONVEYORS

### FEED CONVEYOR

1200mm (3' 11") wide feed conveyor with direct drive system & hydraulic variable speed control

4.11m (13' 6") drum centres

350mm (13.7") drum diameter (drive)

320mm (12.6") drum diameter (tail)

### MAIN CONVEYOR

1050mm (3' 5") 3 ply plain belt

13.00m (42' 8") drum centres

286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

Anit-rollback as standard

Hydraulically adjustable conveyor, fully skirted & sealed

Hydraulic raise for mesh change





## CHIEFTAIN 2200 3 DECK



# ↓ CONVEYORS

### FINESIZE - TAIL CONVEYOR

1200mm (3' 11") wide 3 ply plain belt

9.06m (29' 9") drum centres

286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

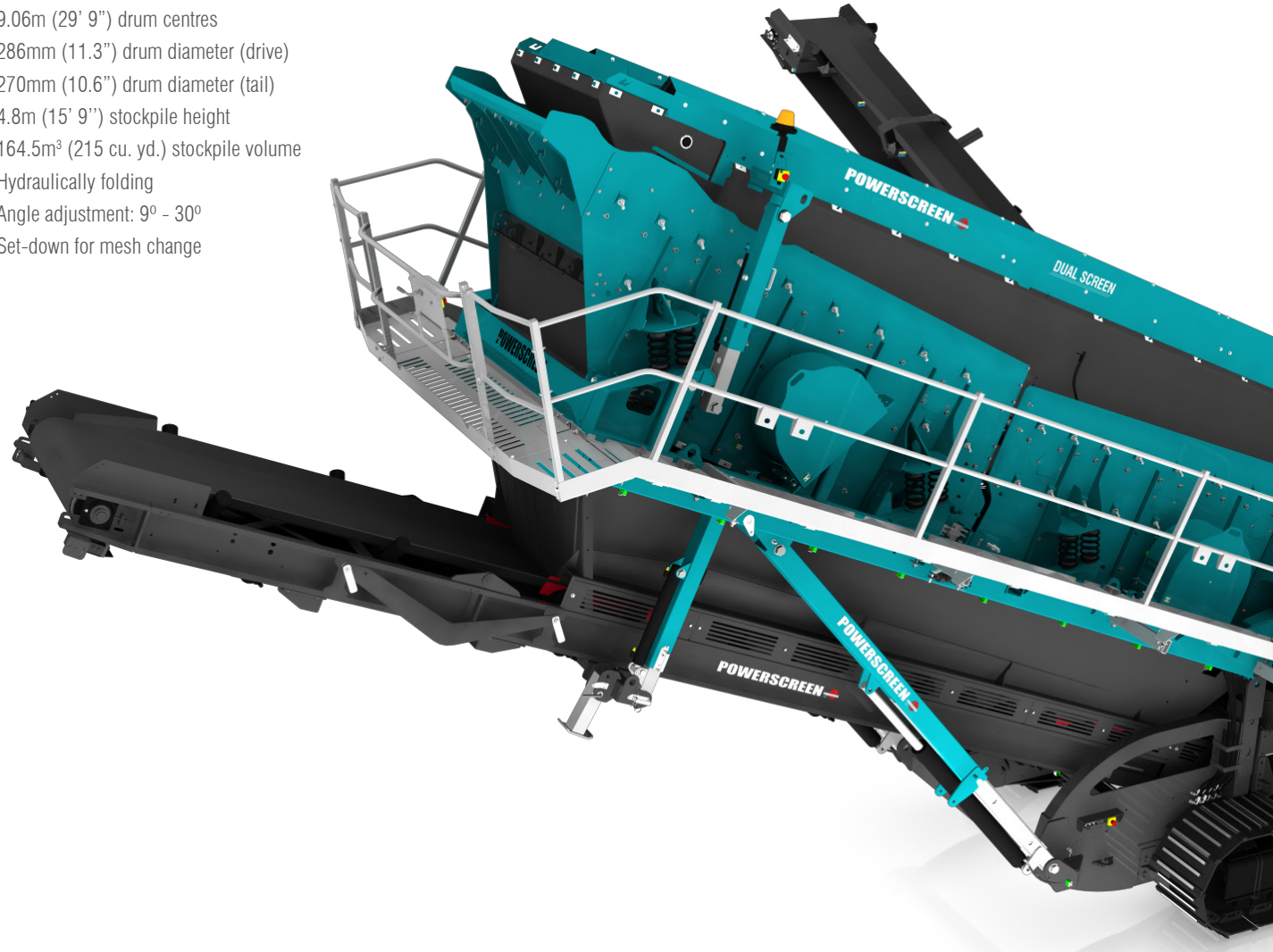
4.8m (15' 9") stockpile height

164.5m<sup>3</sup> (215 cu. yd.) stockpile volume

Hydraulically folding

Angle adjustment: 9° - 30°

Set-down for mesh change





## CHIEFTAIN 2200 3 DECK



# ↓ CONVEYORS

### MID-FINESIZE & MID-OVERSIZING - SIDE CONVEYORS

- 800mm (2' 7") wide 3 ply chevron belt
- 10.18m (33' 5") drum centres
- 286mm (11.3") drum diameter (drive)
- 270mm (10.6") drum diameter (tail)
- 4.97m (16' 4") stockpile height
- 183m<sup>3</sup> (239 cu. yd.) stockpile volume
- Individual variable speed control
- Hydraulically folding
- Fixed angle: 24°





## CHIEFTAIN 2200 3 DECK



# ↓ CONVEYORS

### OVERSIZE AUXILIARY CONVEYOR (STANDARD)

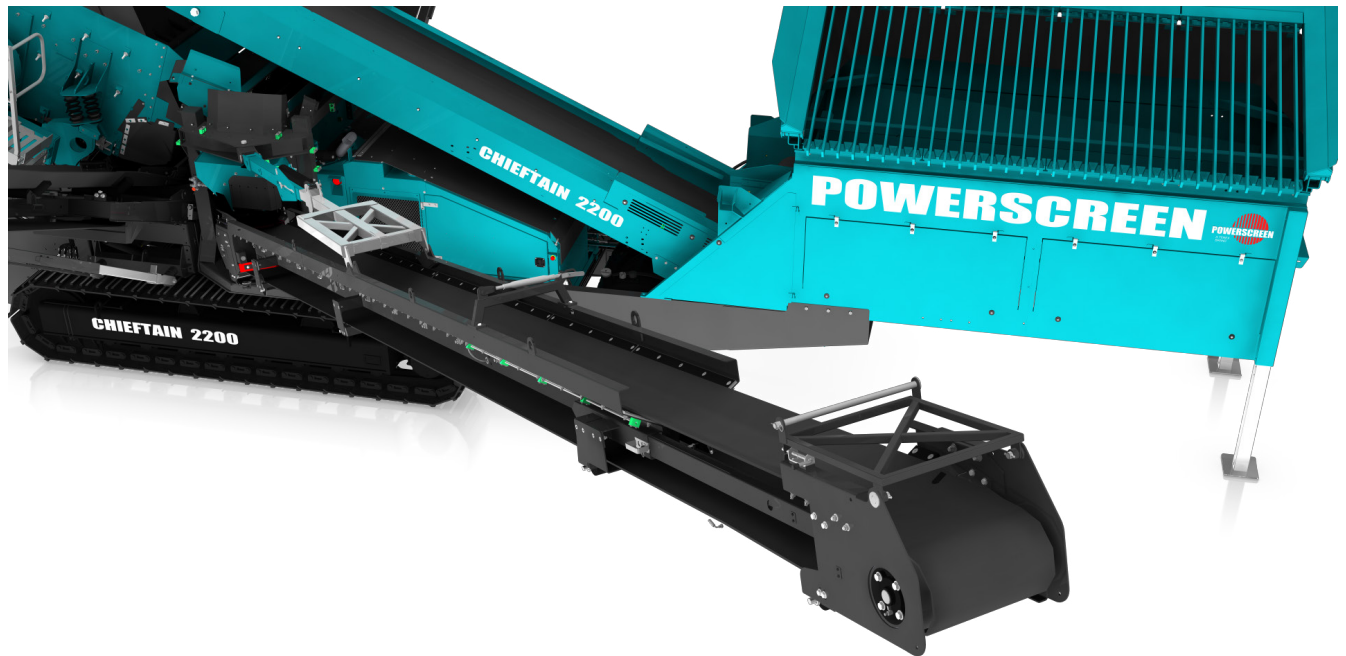
650mm (2' 2") wide 3 ply chevron belt  
 7.83m (25' 8") drum centres  
 286mm (11.3") drum diameter (drive)  
 270mm (10.6") drum diameter (tail)  
 4.53m (14' 10") stockpile height  
 138m<sup>3</sup> (180 cu. yd.) stockpile volume  
 Variable speed  
 Hydraulically folding  
 Fixed angle: 25°

### OVERSIZE AUXILIARY CONVEYOR (EXTENDED)

650mm (2' 2") wide 3 ply chevron belt  
 10.26m (33' 8") drum centres  
 286mm (11.3") drum diameter (drive)  
 270mm (10.6") drum diameter (tail)  
 5.3m (17' 5") stockpile height  
 221m<sup>3</sup> (289 cu. yd.) stockpile volume  
 Variable speed  
 Fixed angle: 25°

### OVERSIZE HYDRAULIC AUXILIARY CONVEYOR

500mm (1' 8") wide 3 ply chevron belt  
 11.09m (36' 5") drum centres  
 289mm (11.4") drum diameter (drive)  
 273mm (10.7") drum diameter (tail)  
 6.05m (19' 9") stockpile height  
 329m<sup>3</sup> (431 cu. yd.) stockpile volume  
 Variable speed  
 Variable angle (height): maximum of 25°  
 Variable angle (rotation): maximum of 70°  
 from the chassis







## CHIEFTAIN 2200 3 DECK



# ↓ POWER UNIT & HYDRAULICS

### Engine Tier 3 Equivalent:

CAT C4.4 LRC

### Performance:

97 kW (130hp) @ 2200rpm

### Engine Stage IIIA Constant Speed:

CAT C4.4 CS

### Performance:

96.8 kW (130hp) @ 1800rpm

### Engine Tier 4F / Stage IV:

CAT C4.4

### Performance:

98 kW (131hp) @ 2200rpm

### Tank Capacities:

Fuel: 336 L (88 US Gal)

Hydraulic oil: 450 L (118 US Gal)

### Pumps:

Flywheel pump: Cast iron quad 46/46/33/33cc/rev

PTO pump A: Cast iron triple 23/23/14cc/rev

### Constant Speed Pumps:

Flywheel pump: Cast iron quad 71/41/41/34cc/rev

PTO pump A: Cast iron tandem 29/29cc/rev

### Motors:

Belt feeder: 160cc/rev

Main conveyor: Cast iron 500cc/rev

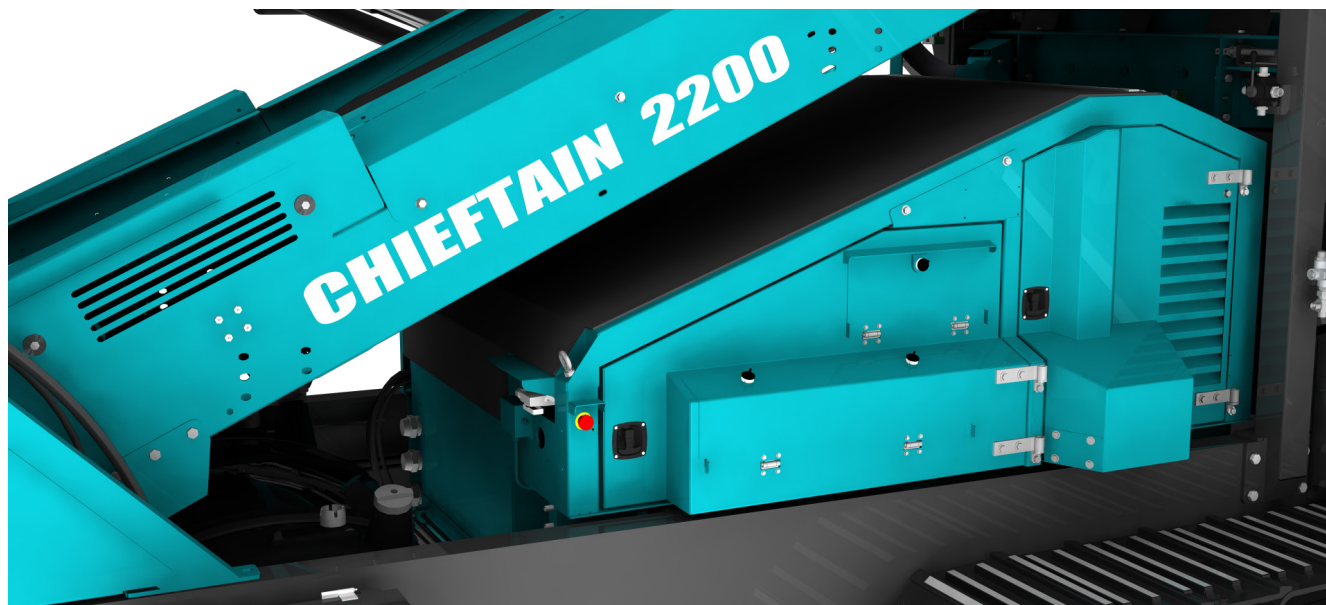
Tail conveyor Std: Cast iron 630cc/rev

Tail conveyor CS: Cast iron 800cc/rev

Side conveyors: Cast iron 400cc/rev

Screen: Cast iron 101cc/rev

Aux. Conveyor: Cast iron 400cc/rev





## CHIEFTAIN 2200 3 DECK



## TRACKS

<b>Track width:</b>	500mm (1' 8")
<b>Sprocket centres:</b>	3838mm (12' 7")
<b>Gradability degrees:</b>	37.09°
<b>Gearbox ratio:</b>	1:166
<b>Hydraulic motor:</b>	85.9cc/rev
<b>Approximate speed:</b>	0.69kph (0.43mph)
<b>Total flow per track:</b>	96 Lpm (approx.)

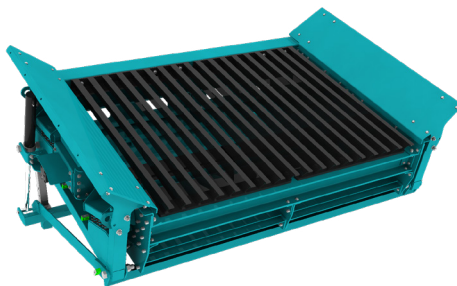




## CHIEFTAIN 2200 3 DECK



## OPTIONS



### DOUBLE DECK VIBRATING GRID

**Target area:**

3.91m (12' 10") long x 2.42m (7' 11") wide

**Bottom deck screen size:**

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

**Working angle:** 10° - 20° (hydraulically adjustable)

**Tip angle:** 45° max

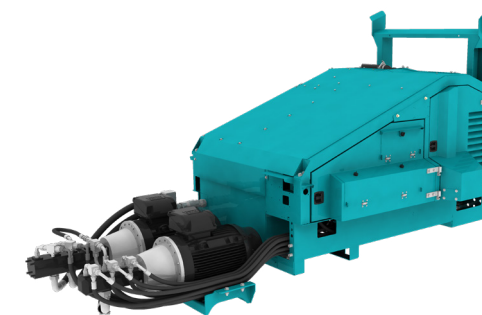
**Motor:** 56cc/rev

**Circuit:** Coupled to main conveyor circuit.

Minimum feed in height with grid (rear): 3.8m (12' 6")

Increase in transport height: +135mm (5.3")

Increase in machine weight: +3,750kg (8,267lbs)



### DUAL POWER

**Dual Power System:**

2 of electric motors: 37 kW (50hp) & 55 kW (74hp) 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



## CHIEFTAIN 2200 3 DECK



# OPTIONS

### OTHER OPTIONS

- Custom colour machine
- Auto lubrication system
- Radio controlled tracking
- Transfer conveyor in place of oversize chute
- Fuel save option
- Adjustable hopper door
- Bottom deck self cleaning flexi mesh
- Low profile chevron
- Quick release wedge tensioning for top deck
- Double deck vibrating grid
- Dust suppression
- Extended auxiliary conveyor
- Vibrating grid discharge chute
- Crusher feed chute (when double deck vibrating grid is selected)
- Powerscreen Pulse





## CHIEFTAIN 2200 3 DECK

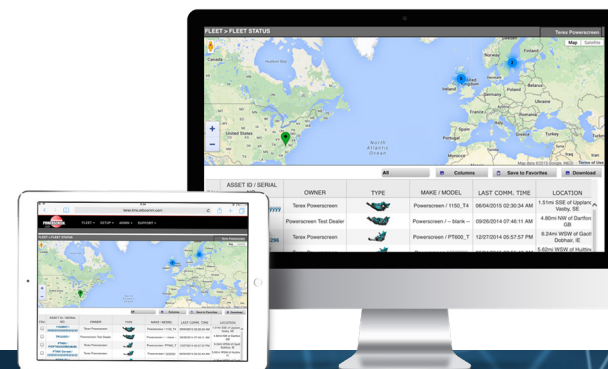


# ↓ POWERSCREEN PULSE

## RECORD, DISPLAY AND ANALYSE DATA:

HIGH EFFICIENCY THROUGH PRECISE INFORMATION

Available online anywhere and at any time: comprehensive information on the GPS location, start and stop times, fuel consumption, tonnages, cone settings, wear ratings, operating hours, maintenance status, and much more.





**AVAILABLE ANYWHERE AND AT ANY TIME**



**DASHBOARD DISPLAY**



**FLEET OVERVIEW**



**WEEKLY REPORT DIRECT TO YOUR INBOX**



**GPS: MACHINE TRACKING**



**REPORTING UTILISATION, PERFORMANCE & PART SPECIFIC**





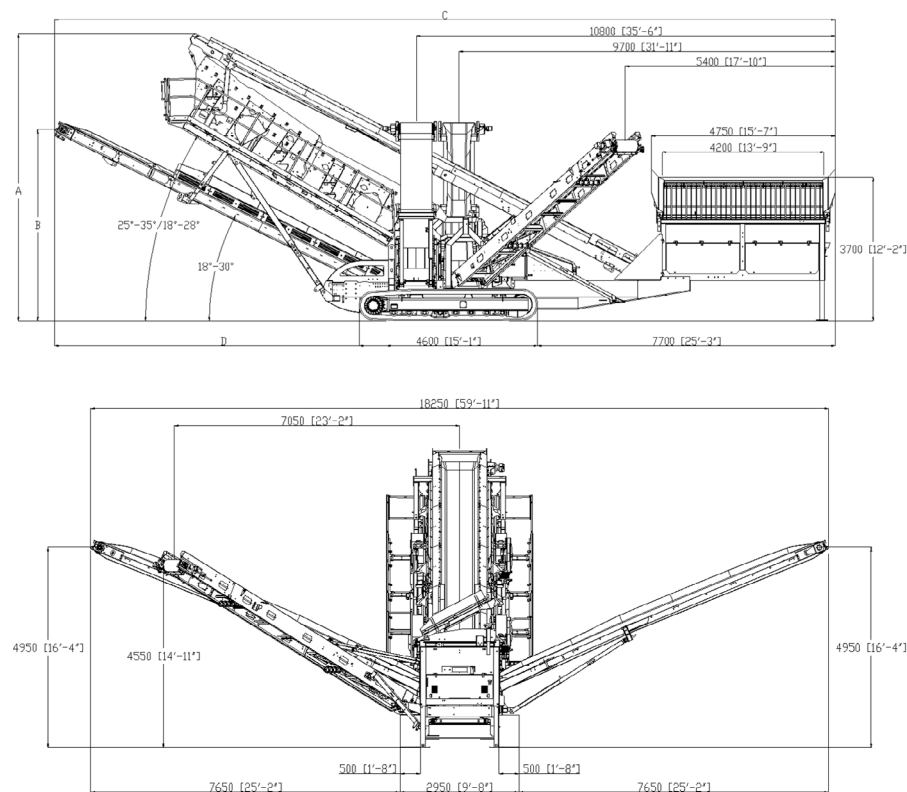
# ↓ DIMENSIONS

## CHIEFTAIN 2200 3 DECK



DIMENSION (MM)	FEED / DISCHARGE SCREEN WORKING ANGLES (DEGREES)				
	25 / 18 DEG	27.5 / 20.5 DEG	30 / 23 DEG	32.5 / 25.5 DEG	35 / 28 DEG
A	6450	6700	6940	7175	7405
B	3515	3885	4245	4595	4935
C	20720	20600	20460	20310	20140
D	8430	8310	8170	8020	7850

Figure 1: Chieftain 2200 3 Deck Working Position



MORE DIMENSIONS OVERLEAF

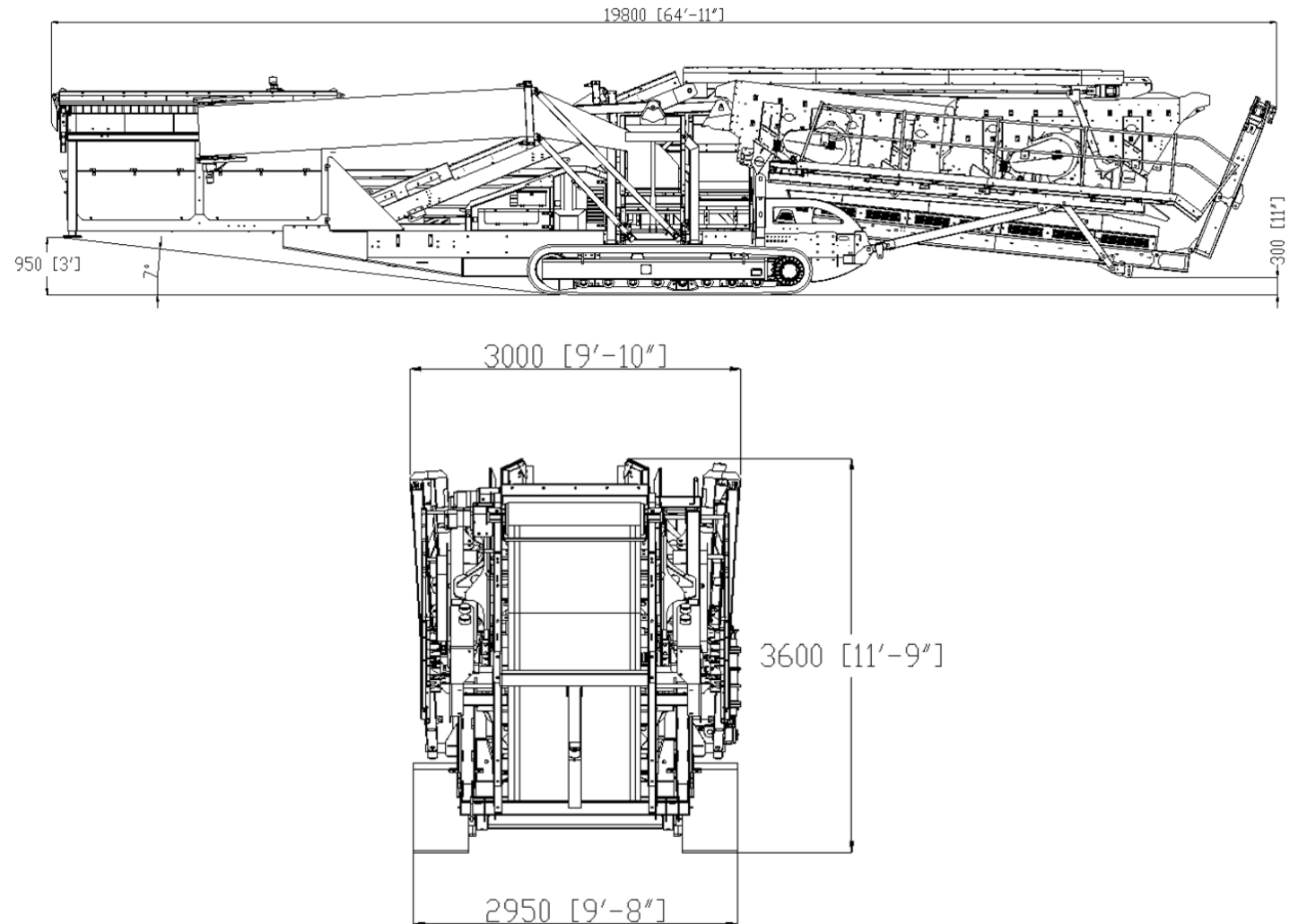


## CHIEFTAIN 2200 3 DECK



# ↓ DIMENSIONS

Figure 2: Chieftain 2200 3 Deck  
Transport Position



[MORE DIMENSIONS OVERLEAF](#)



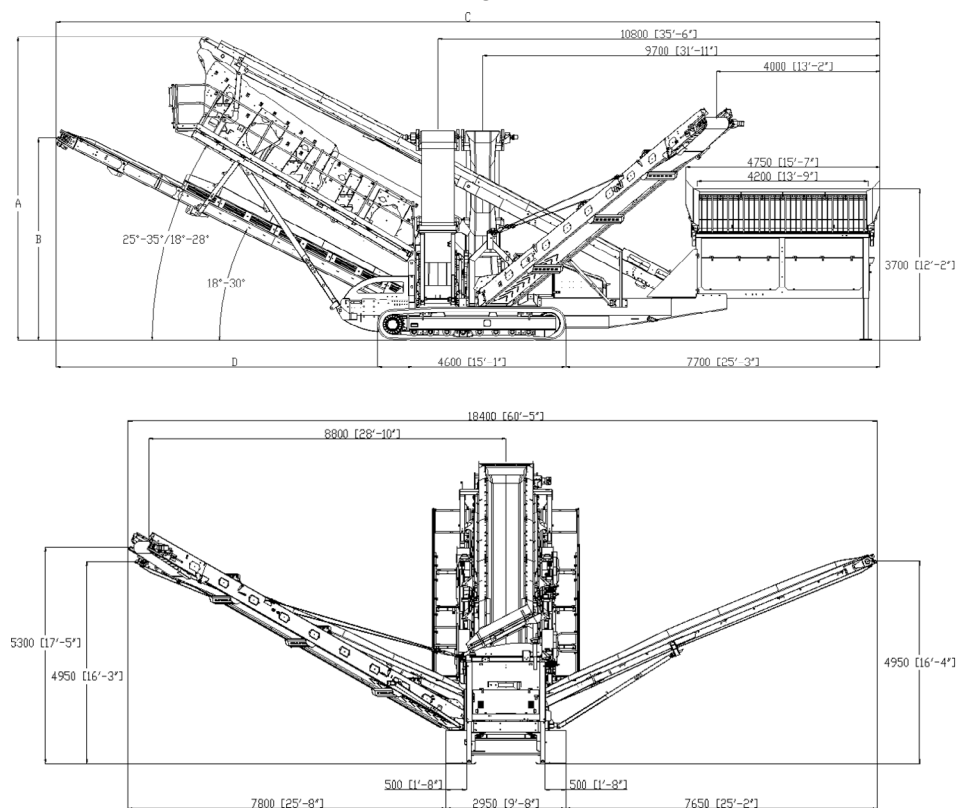
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C	20720	20600	20460	20310	20140
D	8430	8310	8170	8020	7850

Figure 3: Chieftain 2200 3 Deck  
Extended Auxiliary Conveyor  
Working Position



MORE DIMENSIONS OVERLEAF



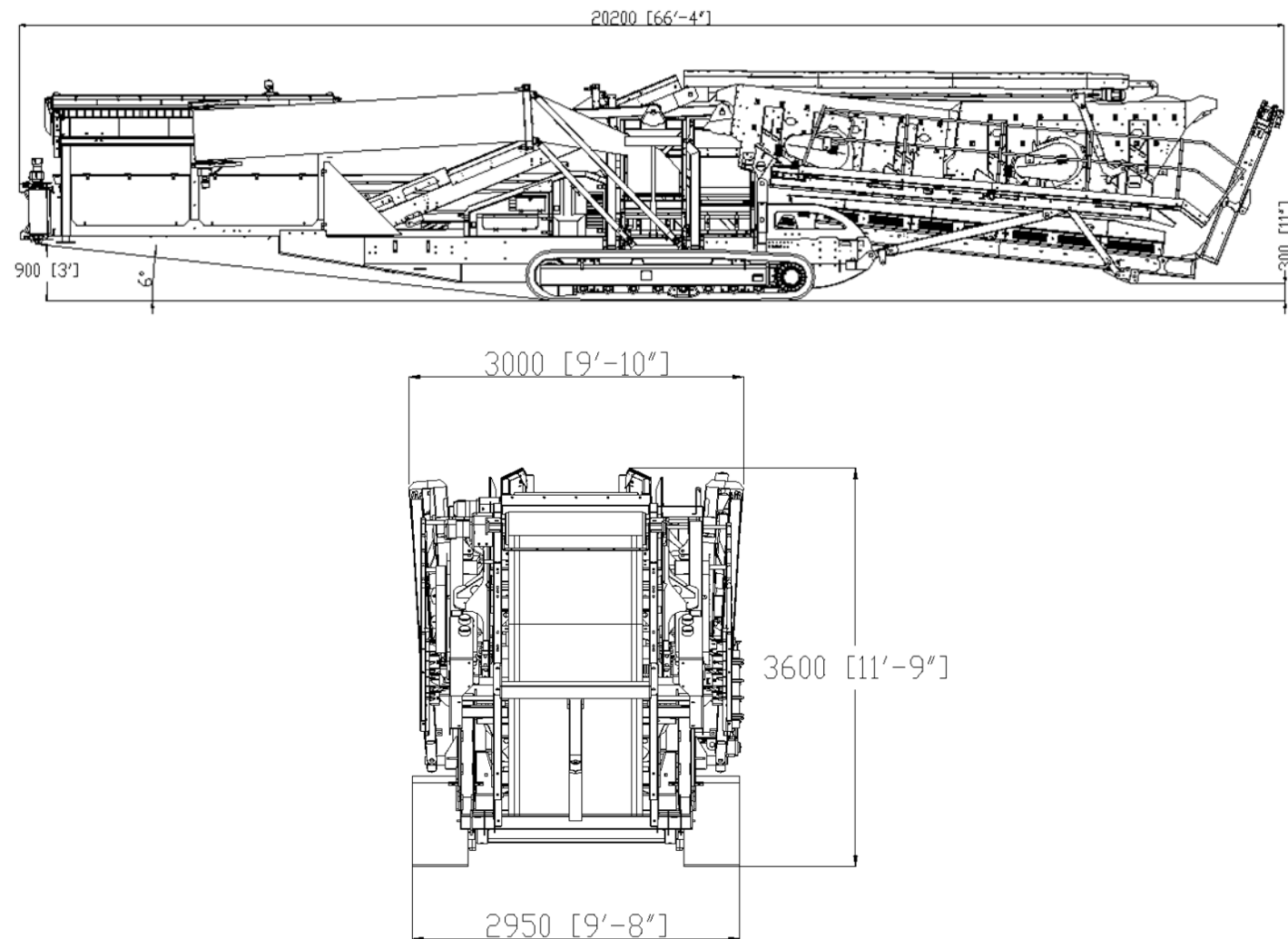


## CHIEFTAIN 2200 3 DECK



# ↓ DIMENSIONS

Figure 4: Chieftain 2200 3 Deck  
Extended Auxiliary Conveyor  
Transport Position



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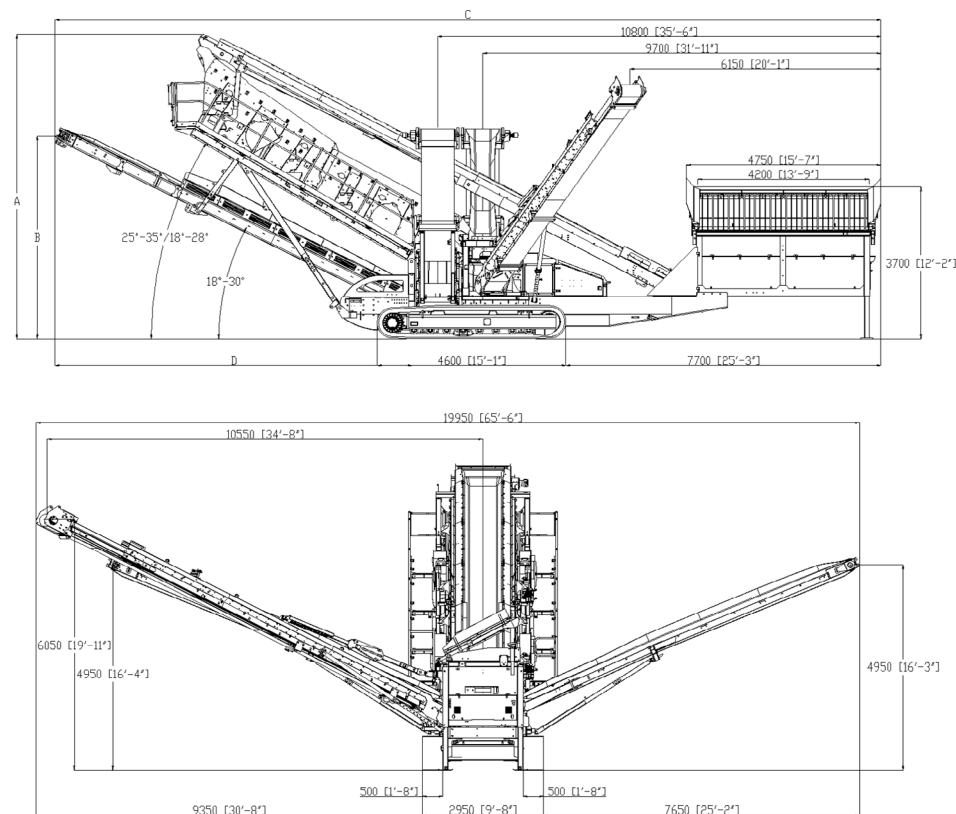
# ↓ DIMENSIONS

## CHIEFTAIN 2200 3 DECK



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C	20720	20600	20460	20310	20140
D	8430	8310	8170	8020	7850

Figure 5: Chieftain 2200 3 Deck  
Hydraulic Extended Auxiliary Conveyor  
Working Position



MORE DIMENSIONS OVERLEAF

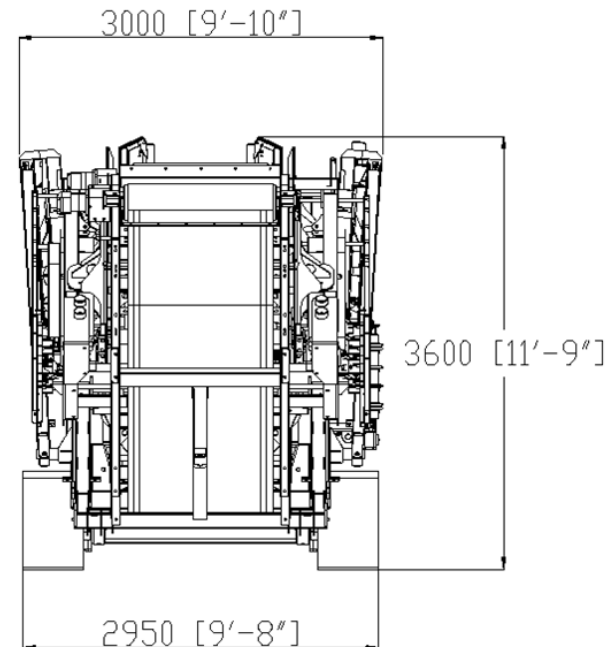
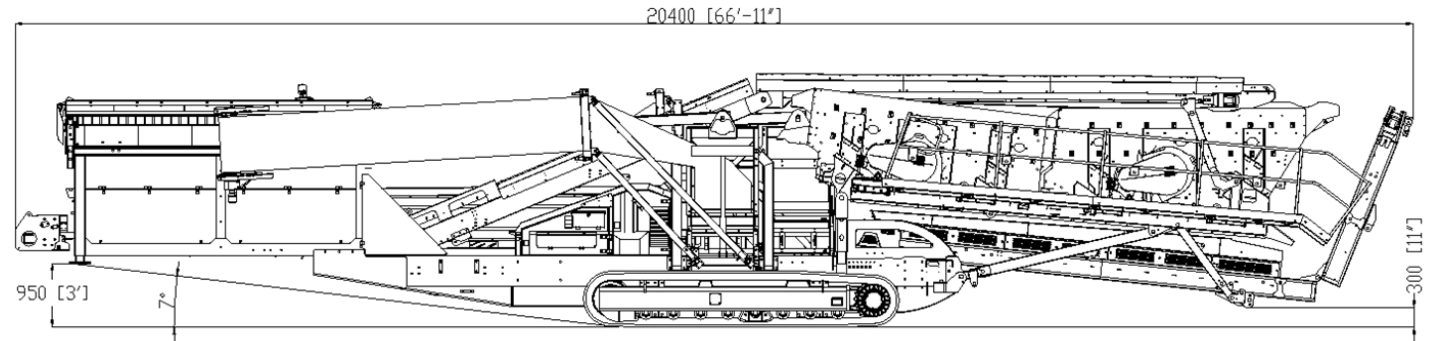


## CHIEFTAIN 2200 3 DECK



# DIMENSIONS

Figure 6: Chieftain 2200 3 Deck  
Hydraulic Extended Auxiliary Conveyor  
Transport Position



[MORE DIMENSIONS OVERLEAF](#)



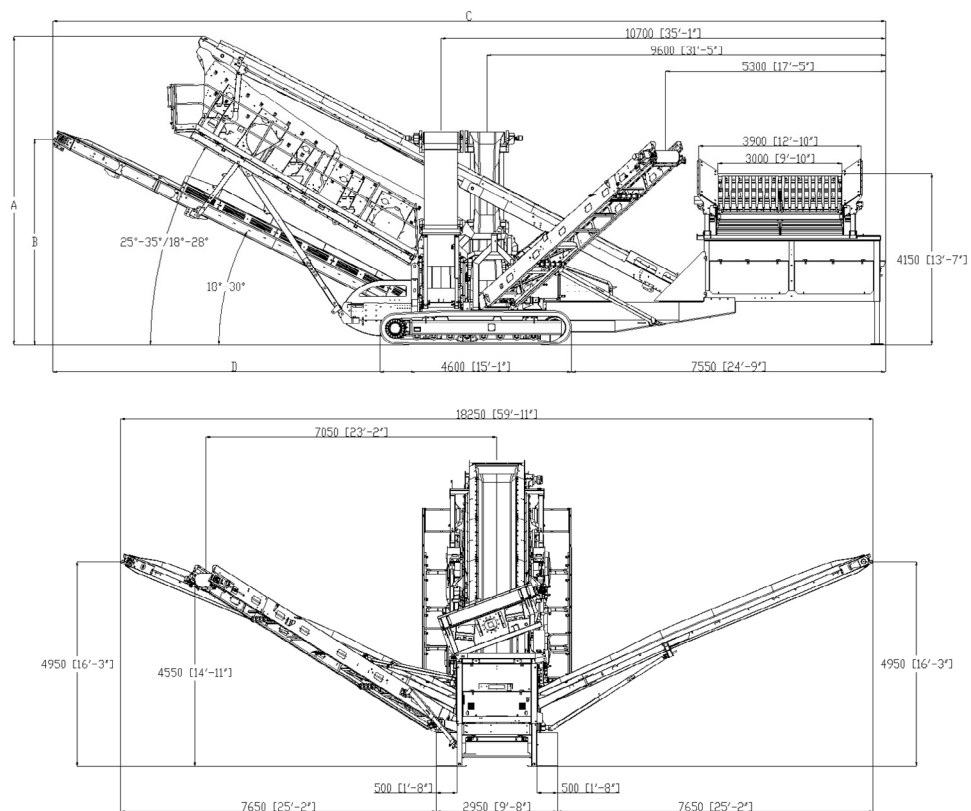
# ↓ DIMENSIONS

## CHIEFTAIN 2200 3 DECK



DIMENSION (MM)	FEED / DISCHARGE SCREEN WORKING ANGLES (DEGREES)				
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A	6450	6700	6940	7175	7405
B	3515	3885	4245	4595	4935
C	20580	20460	20320	20170	20000
D	8430	8310	8170	8020	7850

Figure 7: Chieftain 2200 3 Deck  
Double Deck Vibrating Grid  
Working Position



MORE DIMENSIONS OVERLEAF



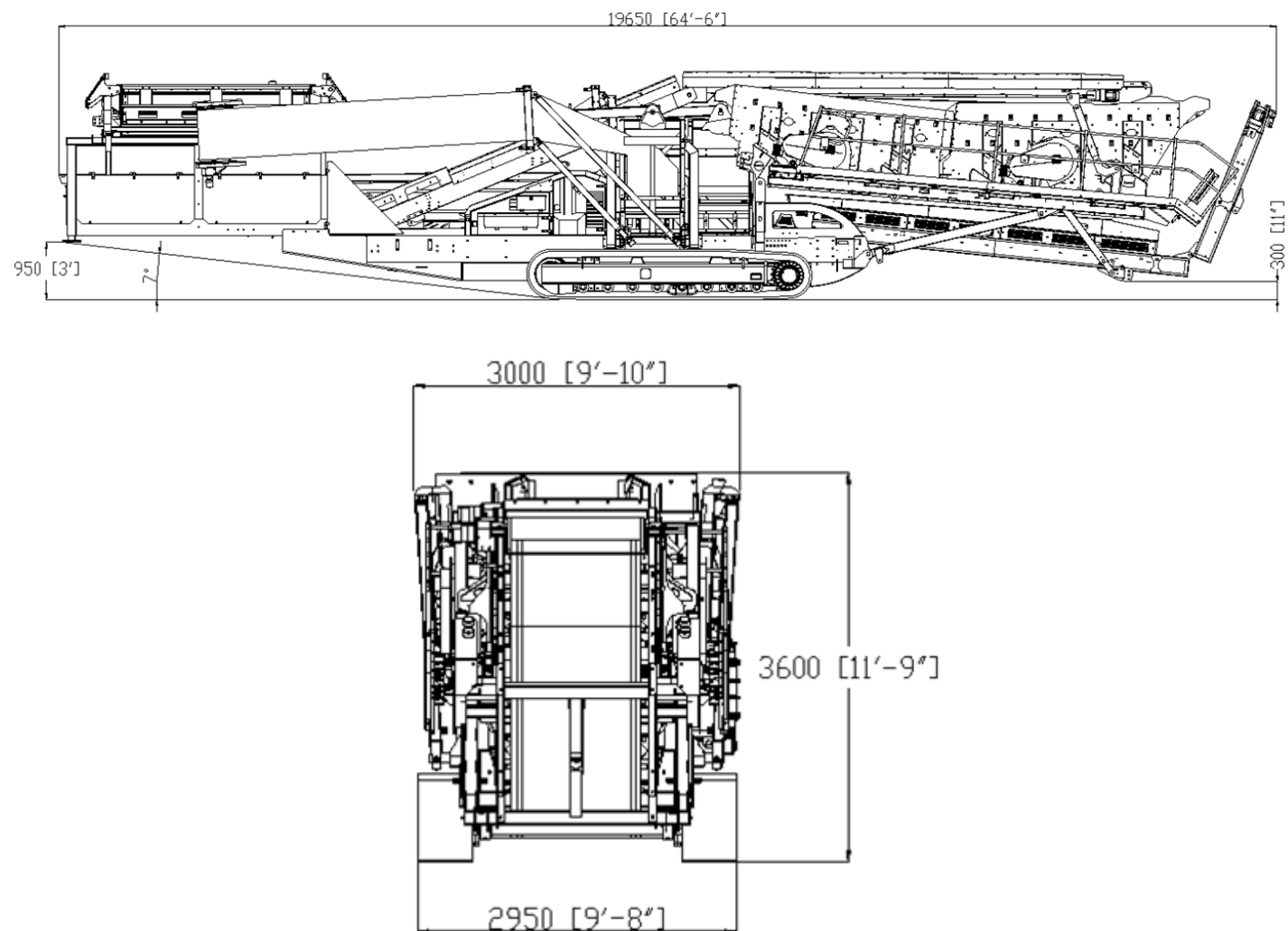


## CHIEFTAIN 2200 3 DECK



# DIMENSIONS

Figure 8: Chieftain 2200 3 Deck  
Double Deck Vibrating Grid  
Transport Position



MORE DIMENSIONS OVERLEAF



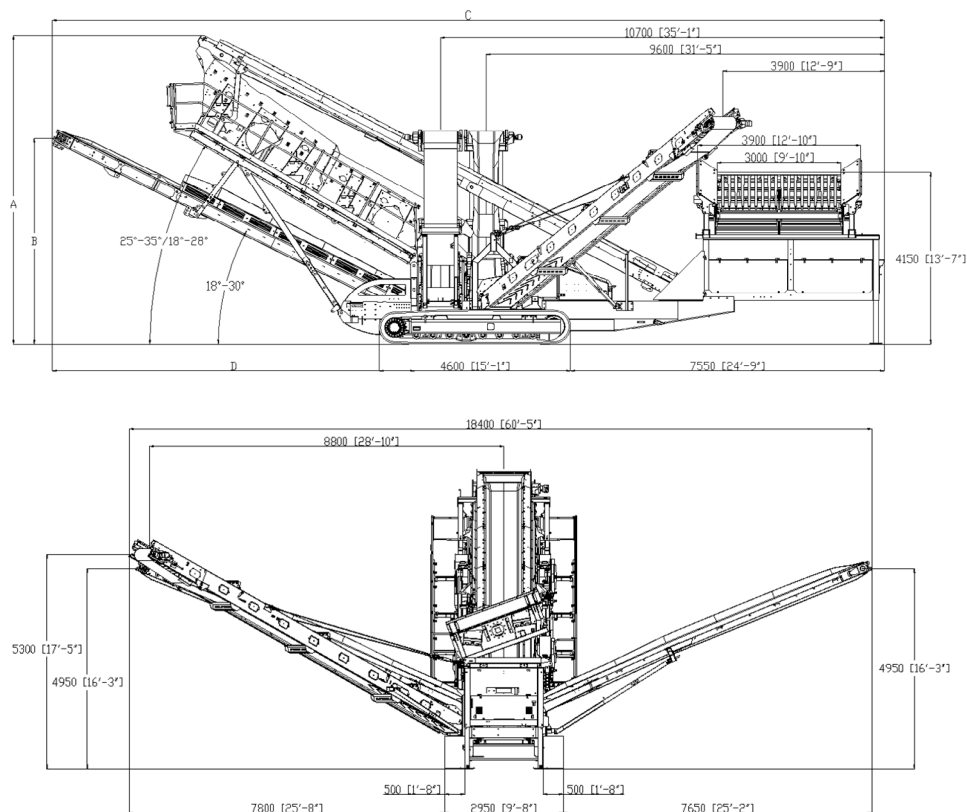
# ↓ DIMENSIONS

## CHIEFTAIN 2200 3 DECK



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C	20580	20460	20320	20170	20000
D	8430	8310	8170	8020	7850

Figure 9: Chieftain 2200 3 Deck  
Extended Auxiliary Conveyor Double Deck Vibrating Grid  
Working Position



MORE DIMENSIONS OVERLEAF

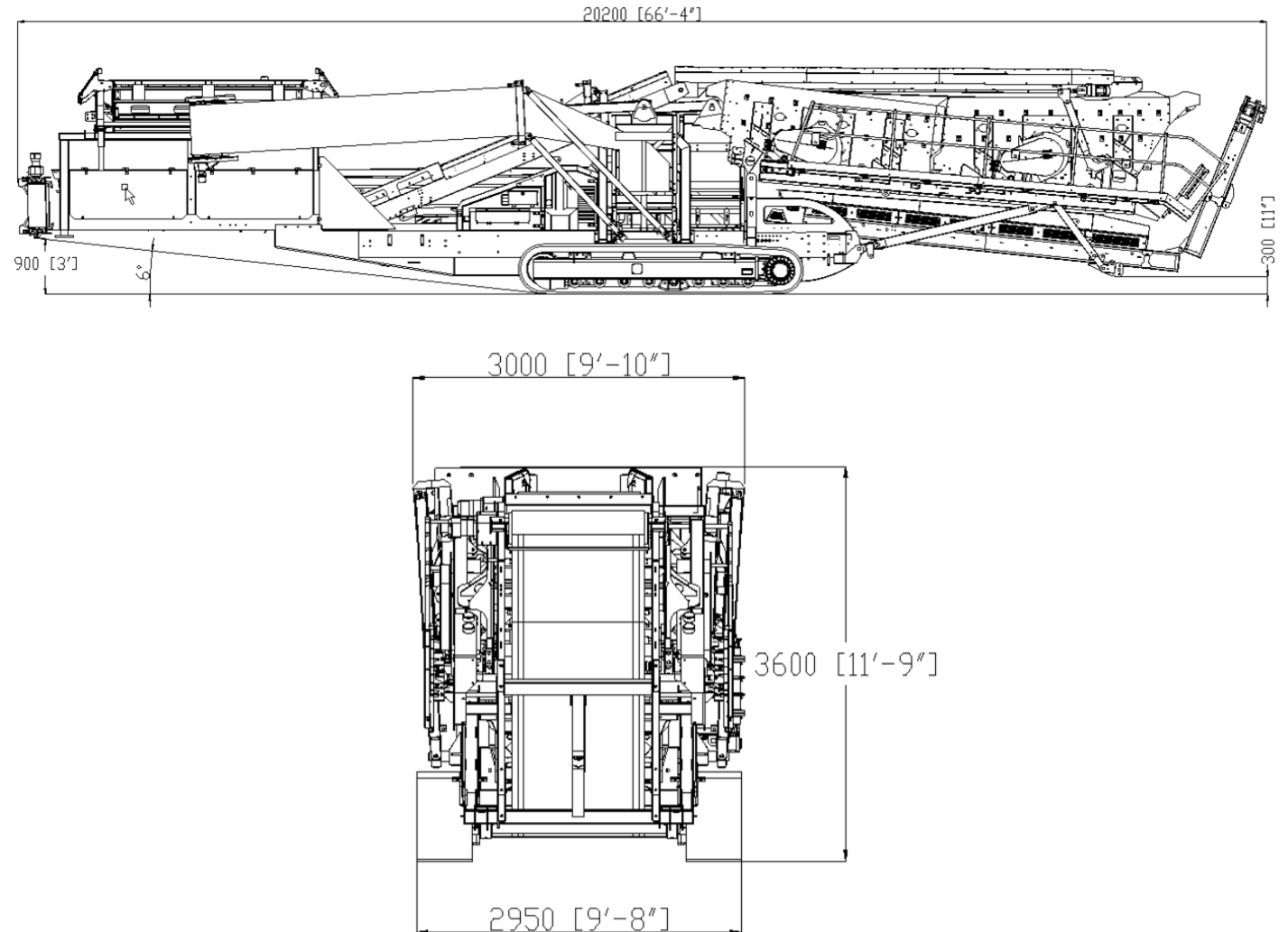


## CHIEFTAIN 2200 3 DECK



# DIMENSIONS

Figure 10: Chieftain 2200 3 Deck  
Extended Auxiliary Conveyor Double Deck Vibrating Grid  
Transport Position



MORE DIMENSIONS OVERLEAF



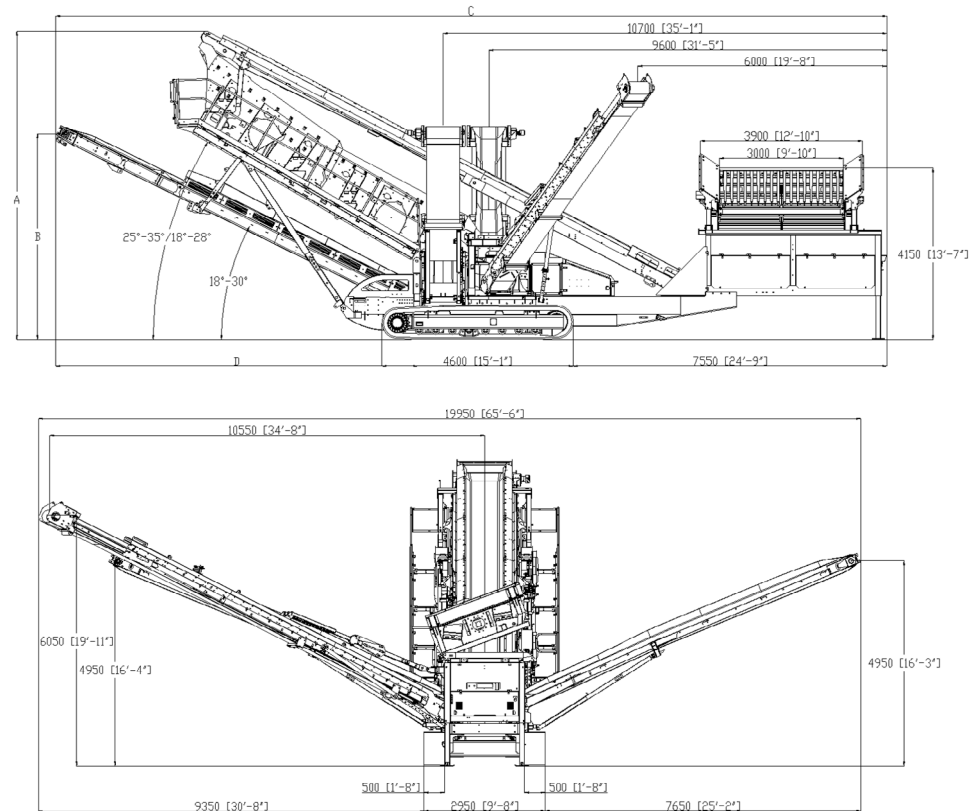
# ↓ DIMENSIONS

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C	20580	20460	20320	20170	20000
D	8430	8310	8170	8020	7850

Figure 11: Chieftain 2200 3 Deck  
Hydraulic Extended Auxiliary Conveyor  
Double Deck Vibrating Grid - Working Position



MORE DIMENSIONS OVERLEAF



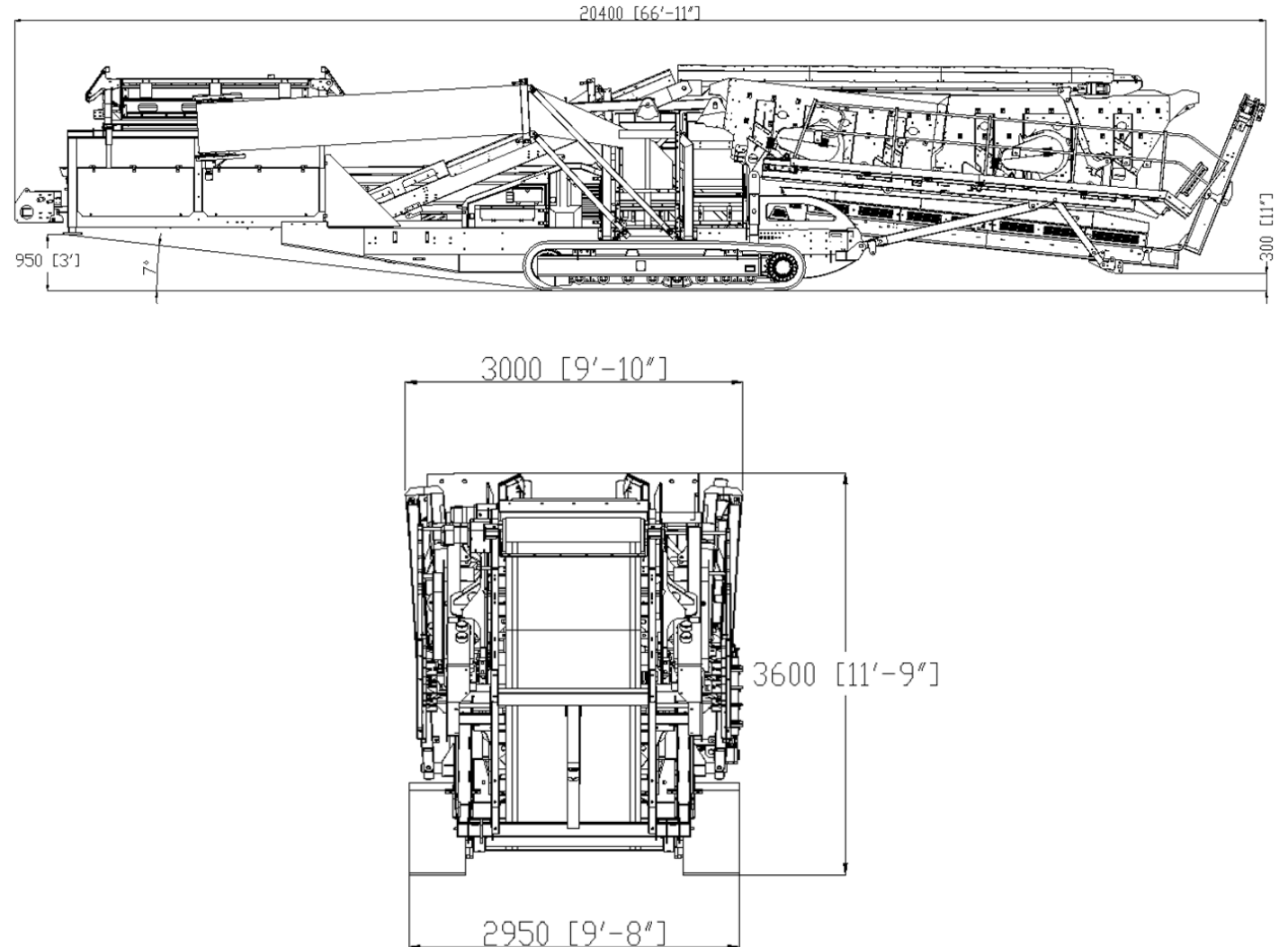


## CHIEFTAIN 2200 3 DECK



# ↓ DIMENSIONS

Figure 12: Chieftain 2200 3 Deck  
Hydraulic Extended Auxiliary Conveyor  
Double Deck Vibrating Grid - Transport Position





### **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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