

# POWERSCREEN® CHIEFTAIN 2200

3 DECK INCLINE DOUBLE SCREEN



TECHNICAL SPECIFICATION - REV 8 01/05/2025





## CHIEFTAIN 2200 3 DECK



# OVERVIEW

## SPECIFICATION

|                                                         |                                      |
|---------------------------------------------------------|--------------------------------------|
|                                                         | <b>14ft Hopper (with grid) track</b> |
| <b>Total weight</b>                                     | 39,500kg (87,093lbs)                 |
| <b>Transport</b>                                        | <b>Length</b> 19.8m (64' 11")        |
|                                                         | <b>Width</b> 3m (9' 10")             |
|                                                         | <b>Height</b> 3.58m (11' 8")         |
| <b>Working</b>                                          | <b>Length</b> 20.15m (66' 1")        |
|                                                         | <b>Width</b> 18.25m (59' 11")        |
|                                                         | <b>Height</b> 7.4m (24' 3")          |
| <b>(screenbox at 35°)</b>                               |                                      |
| <b>Screenboxes</b>                                      | Top: 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')    |
| <b>Power Unit</b>                                       | Diesel / Hydraulic                   |
| <b>Plant Colour</b>                                     | 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
- Powerscreen Pulse telemetry as standard

## 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:** 100mm (4")

**Hopper capacity with tipping grid (rear):** 6.9m<sup>3</sup> (9 cu. yd.)

**Hopper capacity without tipping grid (rear):** 6.2m<sup>3</sup> (8.1 cu. yd.)

**Feed in height with grid:** 3.7m (12' 2") (rear)

**Feed in height without grid:** 2.62m (8' 7") (rear)

Adjustable angle tipping grid with integral loading & wing plates





## 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:** 6mm (standard)







## CHIEFTAIN 2200 3 DECK



## CONVEYORS

### FEED CONVEYOR

1200mm (48") 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 (42") 3 ply plain belt

13.00m (42' 8") drum centres

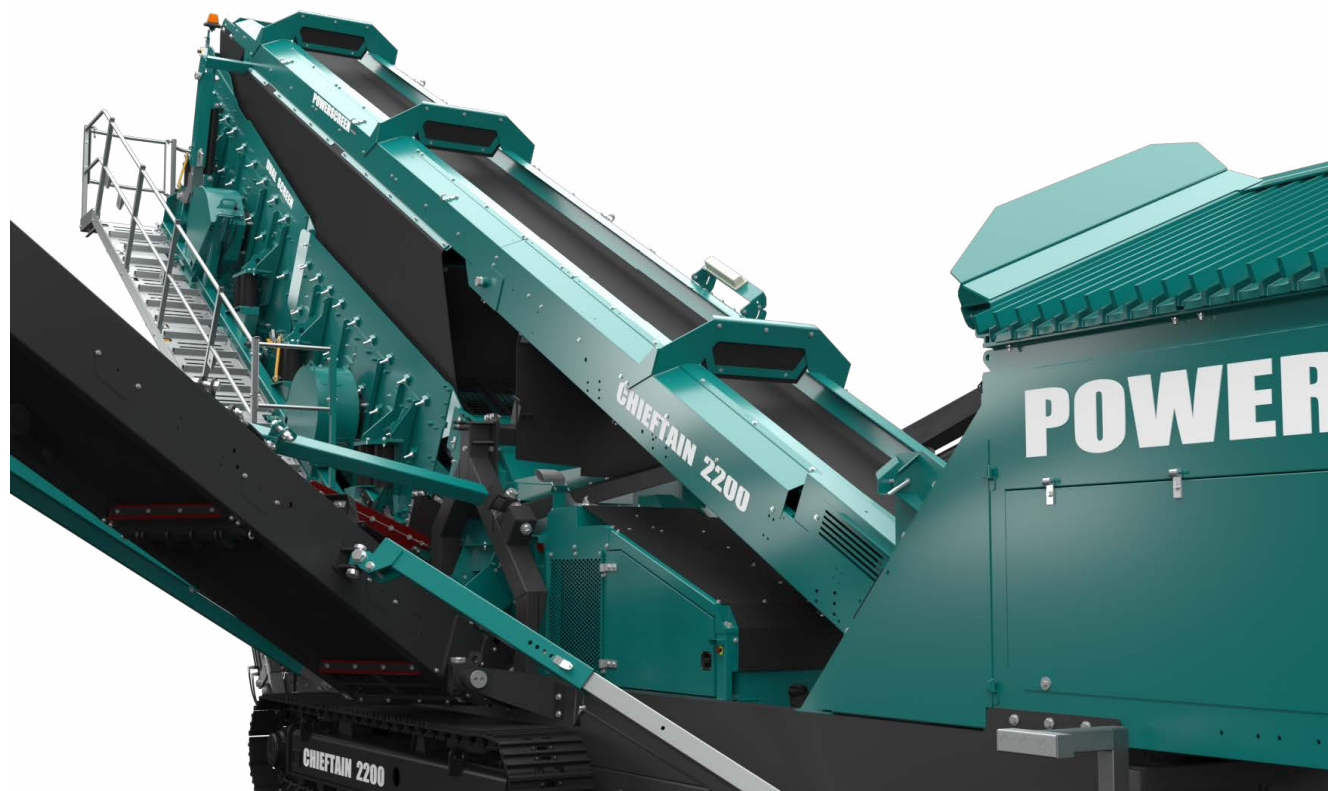
286mm (11.3") drum diameter (drive)

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 (48") wide 3 ply plain belt  
9.06m (29' 9") drum centres  
286mm (11.3") drum diameter (drive)  
270mm (10.6") drum diameter (tail)  
4.7m (15' 5") stockpile height  
154m<sup>3</sup> (202 cu. yd.) stockpile volume  
Hydraulically folding  
Angle adjustment: 9° - 30°  
Set-down for mesh change





## CHIEFTAIN 2200 3 DECK



# ↓ CONVEYORS

### MID-FINESIZE & MID-OVERSIZ - SIDE CONVEYORS

800mm (32") wide 3 ply chevron belt

10.18m (33' 5") drum centres

286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

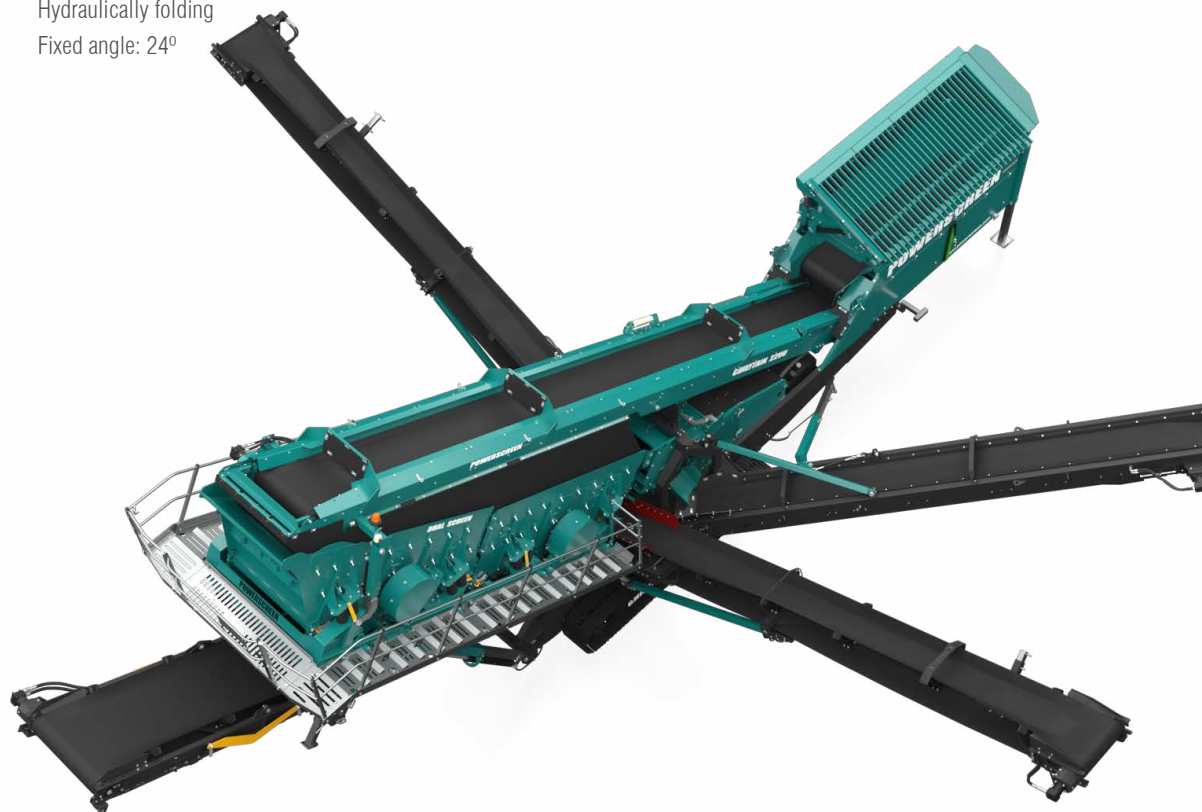
4.95m (16' 2") stockpile height

180m<sup>3</sup> (236 cu. yd.) stockpile volume

Individual variable speed control

Hydraulically folding

Fixed angle: 24°





## CHIEFTAIN 2200 3 DECK



# ↓ CONVEYORS

### OVERSIZE AUXILIARY CONVEYOR (STANDARD)

650mm (26") wide 3 ply chevron belt  
7.83m (25' 8") drum centres  
286mm (11.3") drum diameter (drive)

203mm (8") 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)

500mm (20") wide 3 ply chevron belt  
11.09m (36' 4") drum centres (extended length)  
289mm (11.4") drum diameter (drive)  
273mm (10.7") drum diameter (tail)

6.05m (19' 10") stockpile height  
330m<sup>3</sup> (430 cu. yd.) stockpile volume  
Variable speed  
Working angle (slew): 0° - 70°  
Working angle (rake): 8° - 24°







## CHIEFTAIN 2200 3 DECK



# POWER UNIT & HYDRAULICS

### Engine Tier 3 Equivalent:

CAT C4.4

### Performance:

97 kW (130hp) @ 2200rpm

### Engine Tier 4F / Stage IV:

CAT C4.4

### Performance:

102 kW (137hp) @ 2200rpm

### Engine Stage V:

CAT C4.4

### Performance:

102 kW (137hp) @ 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

### Motors:

Belt feeder: 160cc/rev

Main conveyor: Cast iron 500cc/rev

Tail conveyor Std: Cast iron 630cc/rev

Side conveyors: Cast iron 400cc/rev

Screen: Cast iron 101cc/rev

Aux. Conveyor: Cast iron 400cc/rev (500cc for extended)



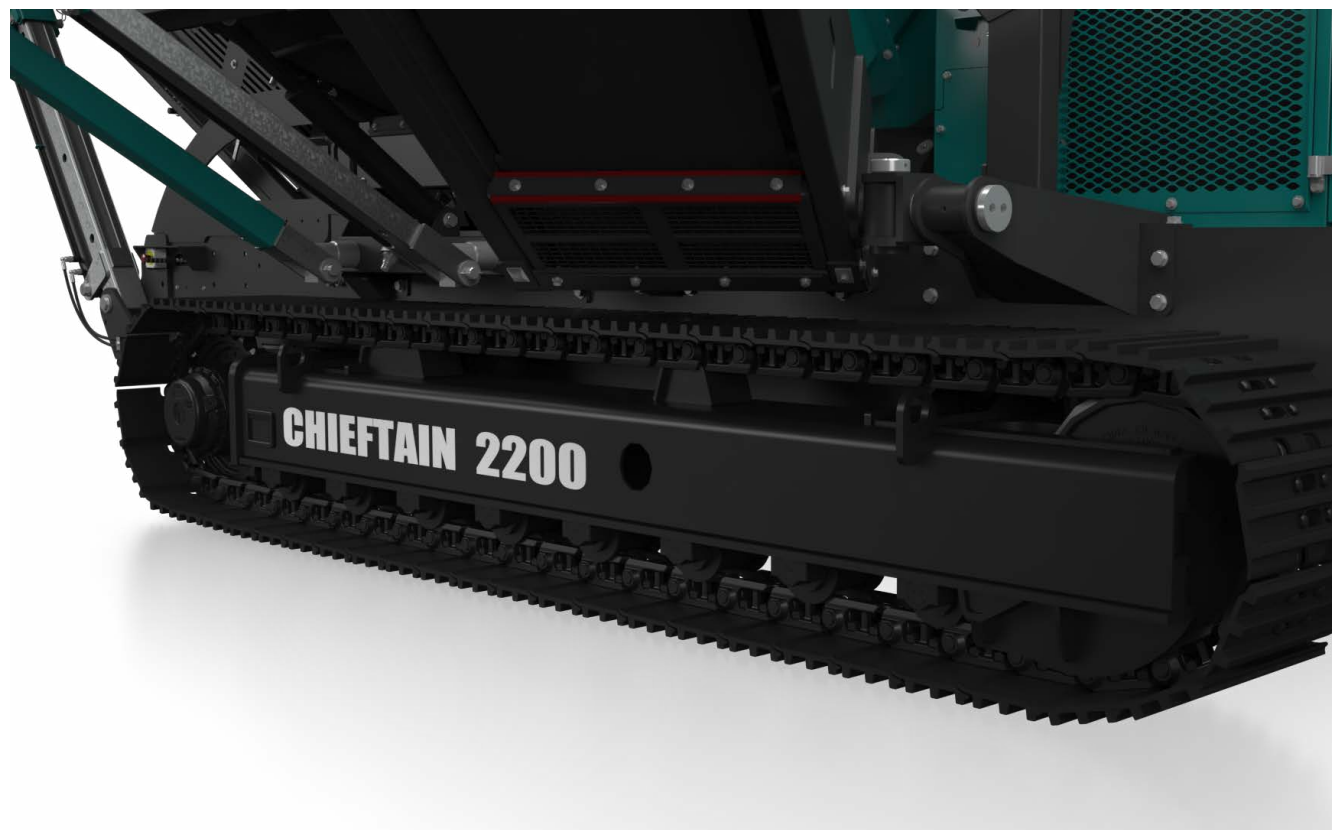


## CHIEFTAIN 2200 3 DECK



### ↓ TRACKS

|                       |                   |
|-----------------------|-------------------|
| Track width:          | 500mm (1' 8")     |
| Sprocket centres:     | 3838mm (12' 7")   |
| Gradability degrees:  | 35.9°             |
| Gearbox ratio:        | 1:166             |
| Hydraulic motor:      | 85.9cc/rev        |
| Approximate speed:    | 0.8kph (0.5mph)   |
| Total flow per track: | 107 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

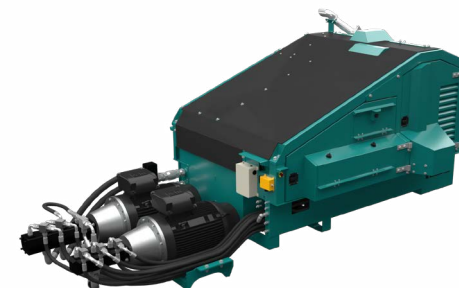
**Motor:** 56cc/rev

**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
- Low profile chevron on main conveyor belt
- Low profile chevron on tail conveyor belt
- Adjustable hopper door
- Fuel save option
- Quick release wedge tensioning for top deck
- Quick release wedge tensioning for middle deck
- Double deck vibrating grid
- Bottom deck self cleaning flexi mesh
- Vibrating grid discharge chute
- Crusher feed chute (when double deck vibrating grid is selected)
- Hopper wear plates
- Grade 68 hydraulic oil
- Wear resistant lined spreader plate
- Reverse rotation of feed screenbox
- Hydraulic jacking legs - not available with Dual Power



## CHIEFTAIN 2200 3 DECK

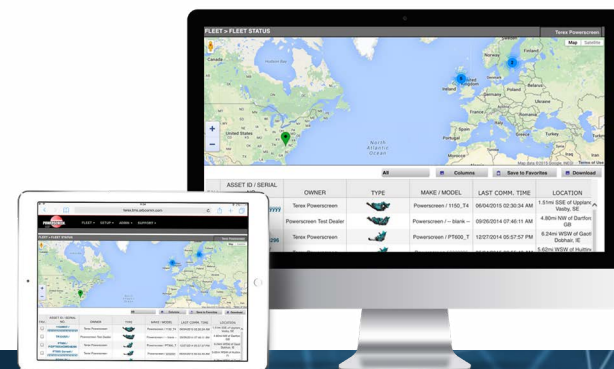


# **POWERSCREEN PULSE**

## 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  
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DIRECT TO YOUR  
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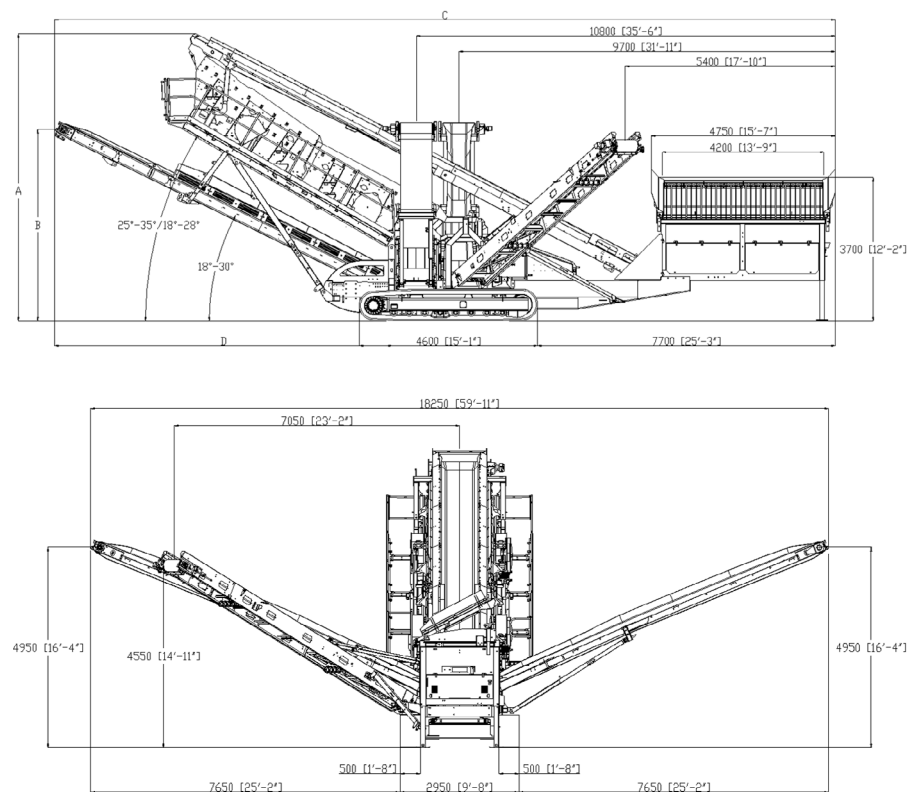
## DIMENSIONS

### 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

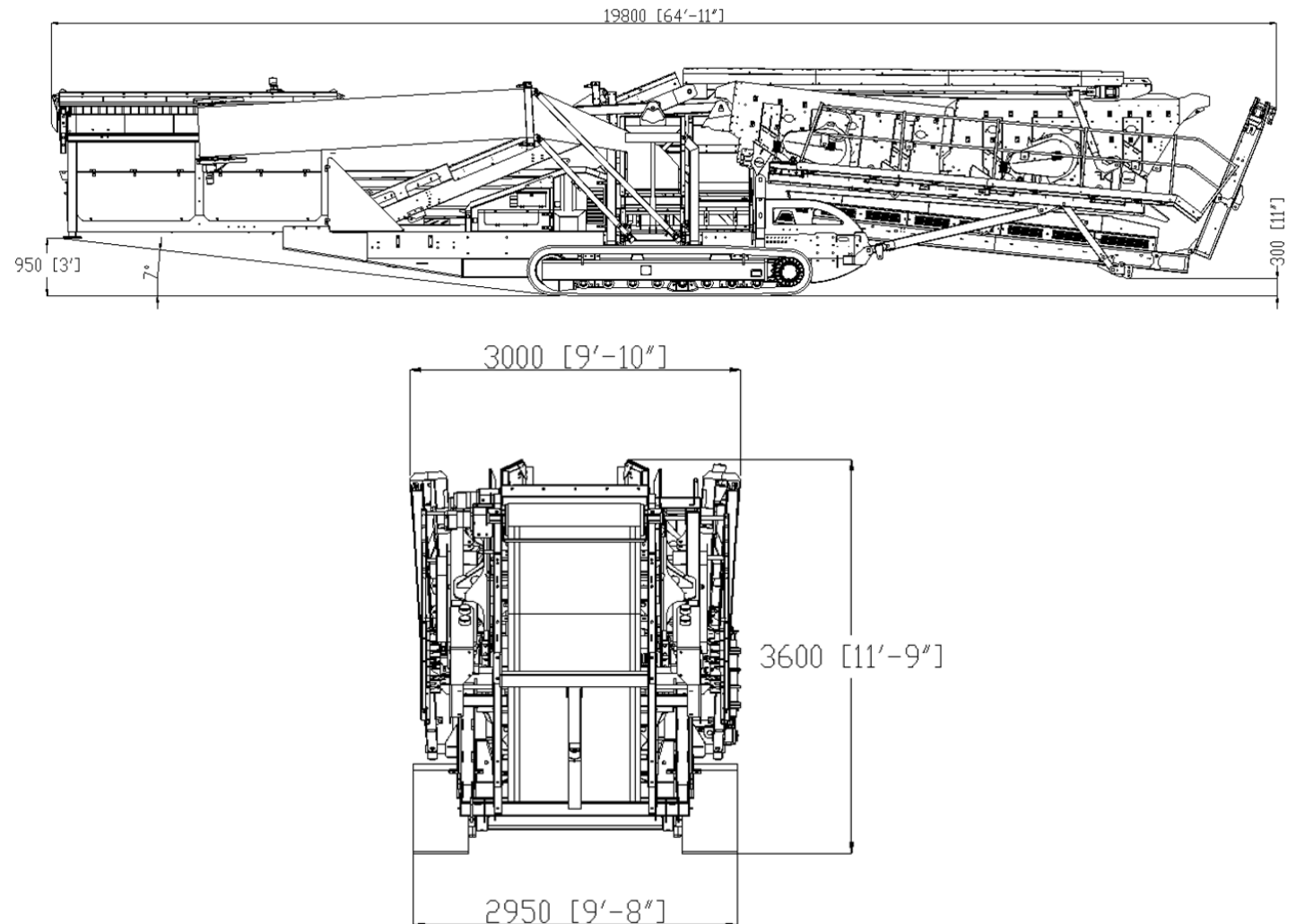


## CHIEFTAIN 2200 3 DECK



# **DIMENSIONS**

Figure 2: Chieftain 2200 3 Deck  
Transport Position



**MORE DIMENSIONS OVERLEAF**



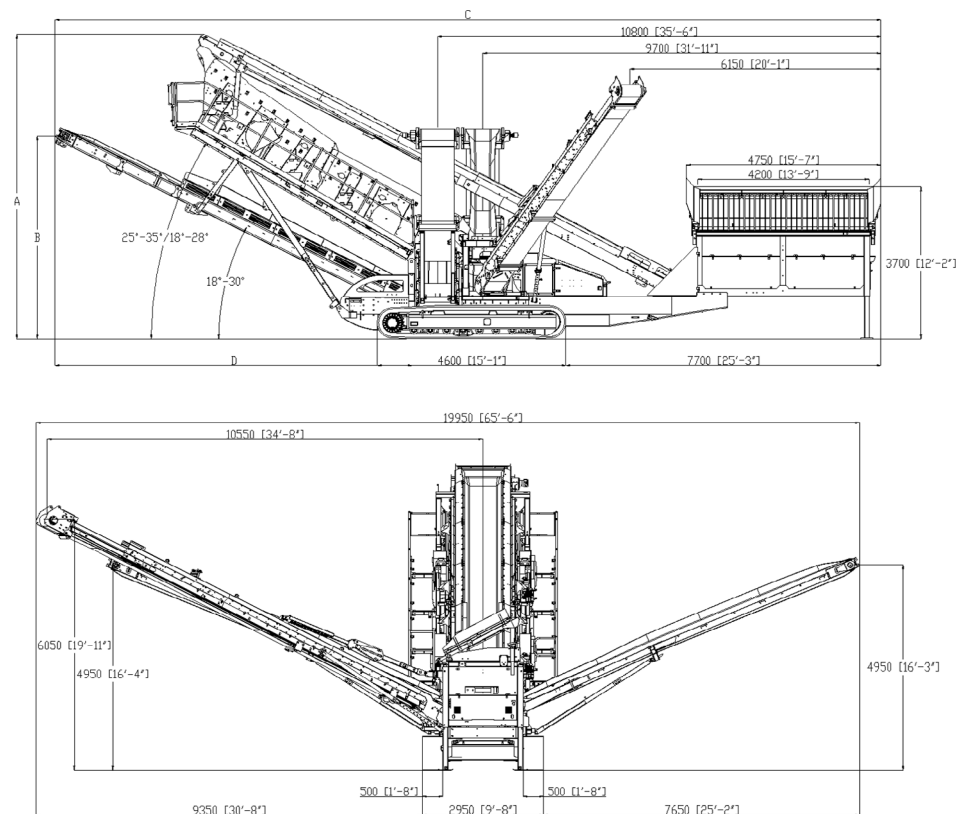
## DIMENSIONS

### CHIEFTAIN 2200 3 DECK



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| 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 3: Chieftain 2200 3 Deck  
Hydraulic Extended Auxiliary Conveyor  
Working Position



MORE DIMENSIONS OVERLEAF

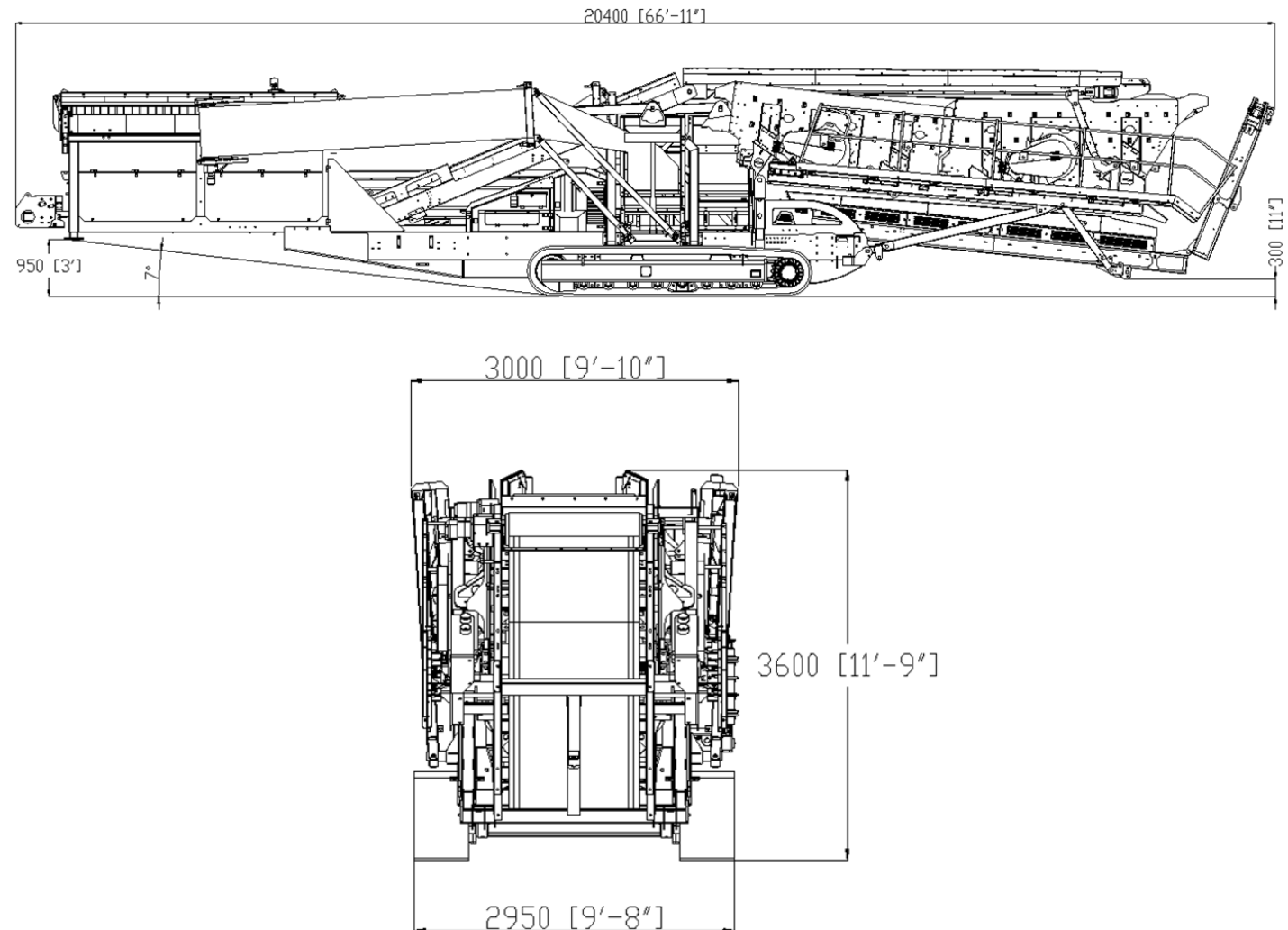


## CHIEFTAIN 2200 3 DECK



## DIMENSIONS

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



MORE DIMENSIONS OVERLEAF



## DIMENSIONS

### CHIEFTAIN 2200 3 DECK

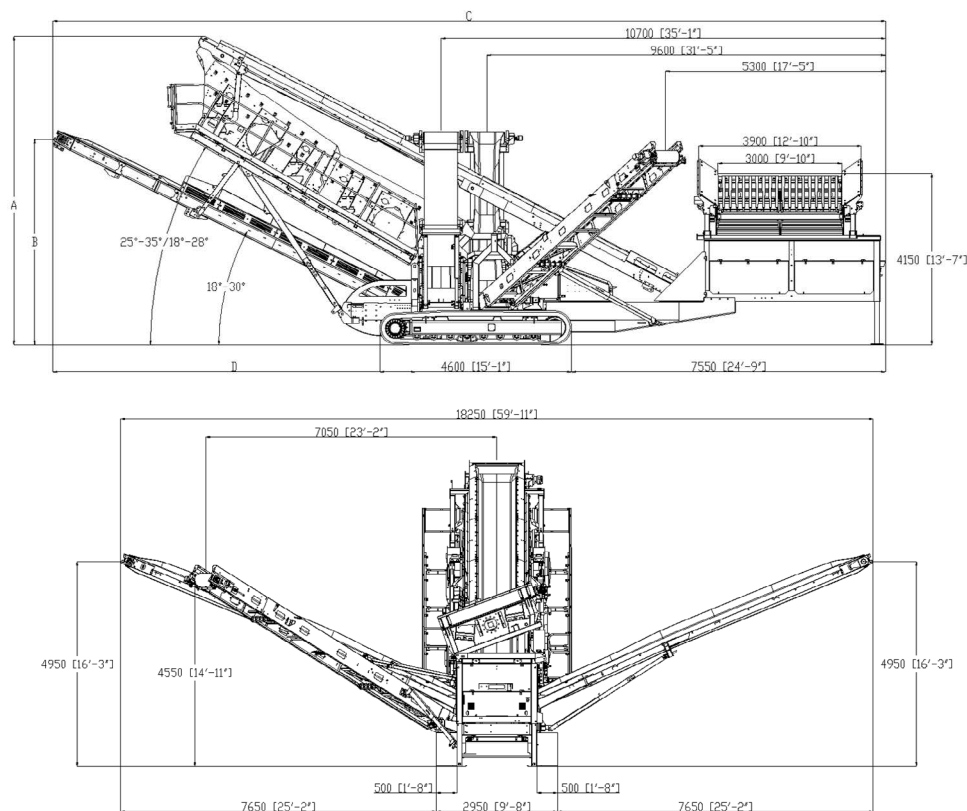


| DIMENSION (MM) | FEED / DISCHARGE SCREEN WORKING ANGLES (DEGREES) |                 |             |                 |             |
|----------------|--------------------------------------------------|-----------------|-------------|-----------------|-------------|
|                | 25 / 18 DEG                                      | 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              | 20580                                            | 20460           | 20320       | 20170           | 20000       |
| D              | 8430                                             | 8310            | 8170        | 8020            | 7850        |

Figure 5: Chieftain 2200 3 Deck

Double Deck Vibrating Grid

Working Position



MORE DIMENSIONS OVERLEAF



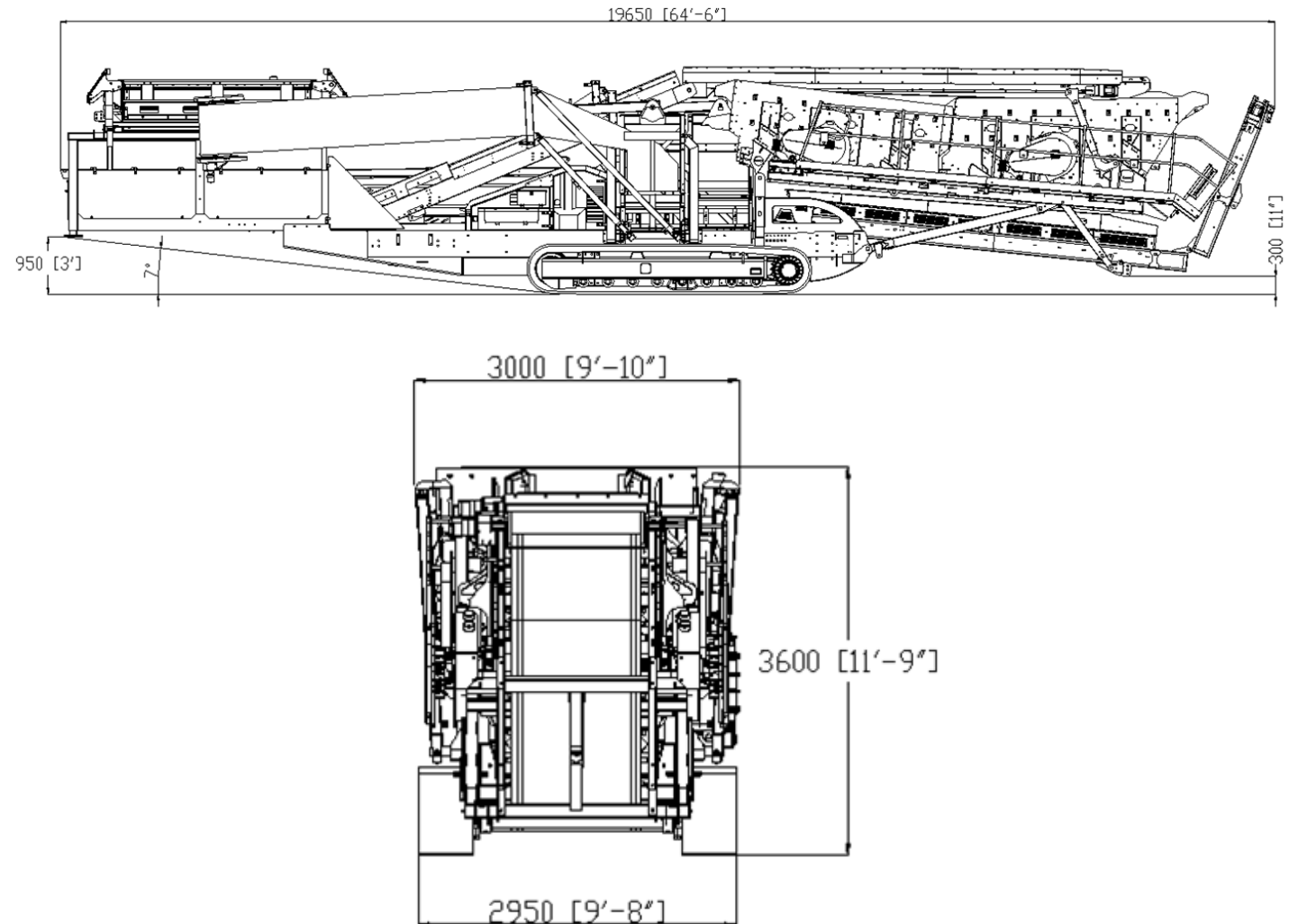


## CHIEFTAIN 2200 3 DECK



## DIMENSIONS

Figure 6: Chieftain 2200 3 Deck  
Double Deck Vibrating Grid  
Transport Position

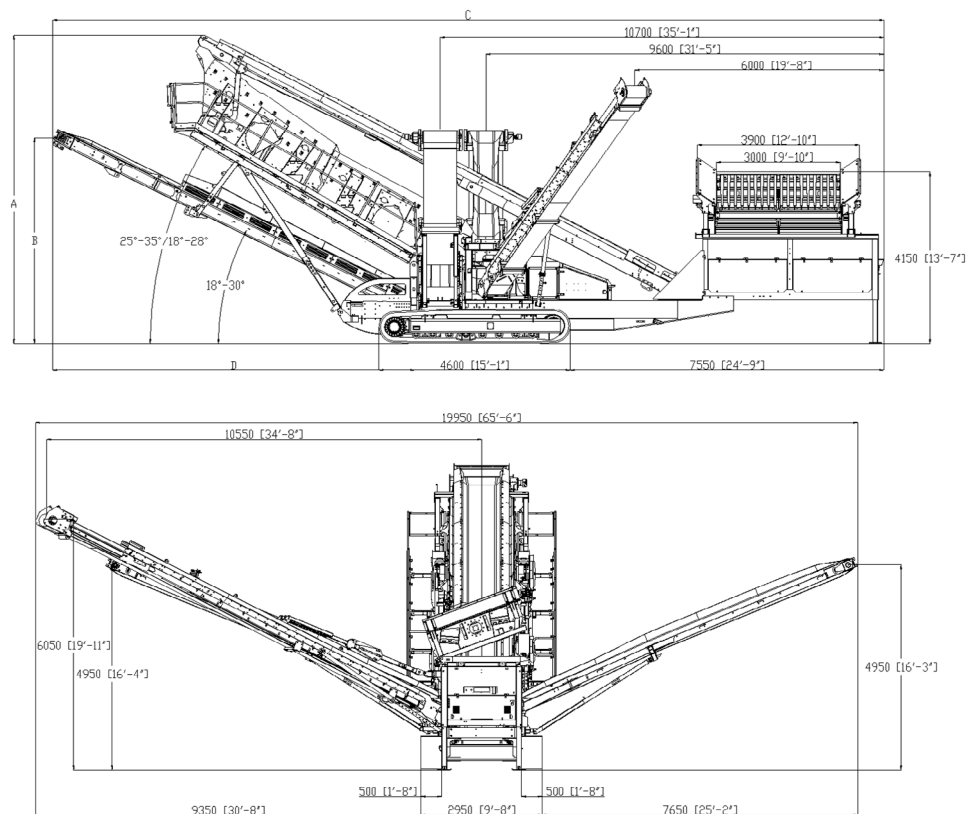


MORE DIMENSIONS OVERLEAF



## DIMENSIONS

**Figure 7: Chieftain 2200 3 Deck  
Hydraulic Extended Auxiliary Conveyor  
Double Deck Vibrating Grid - Working Position**



## MORE DIMENSIONS OVERLEAF

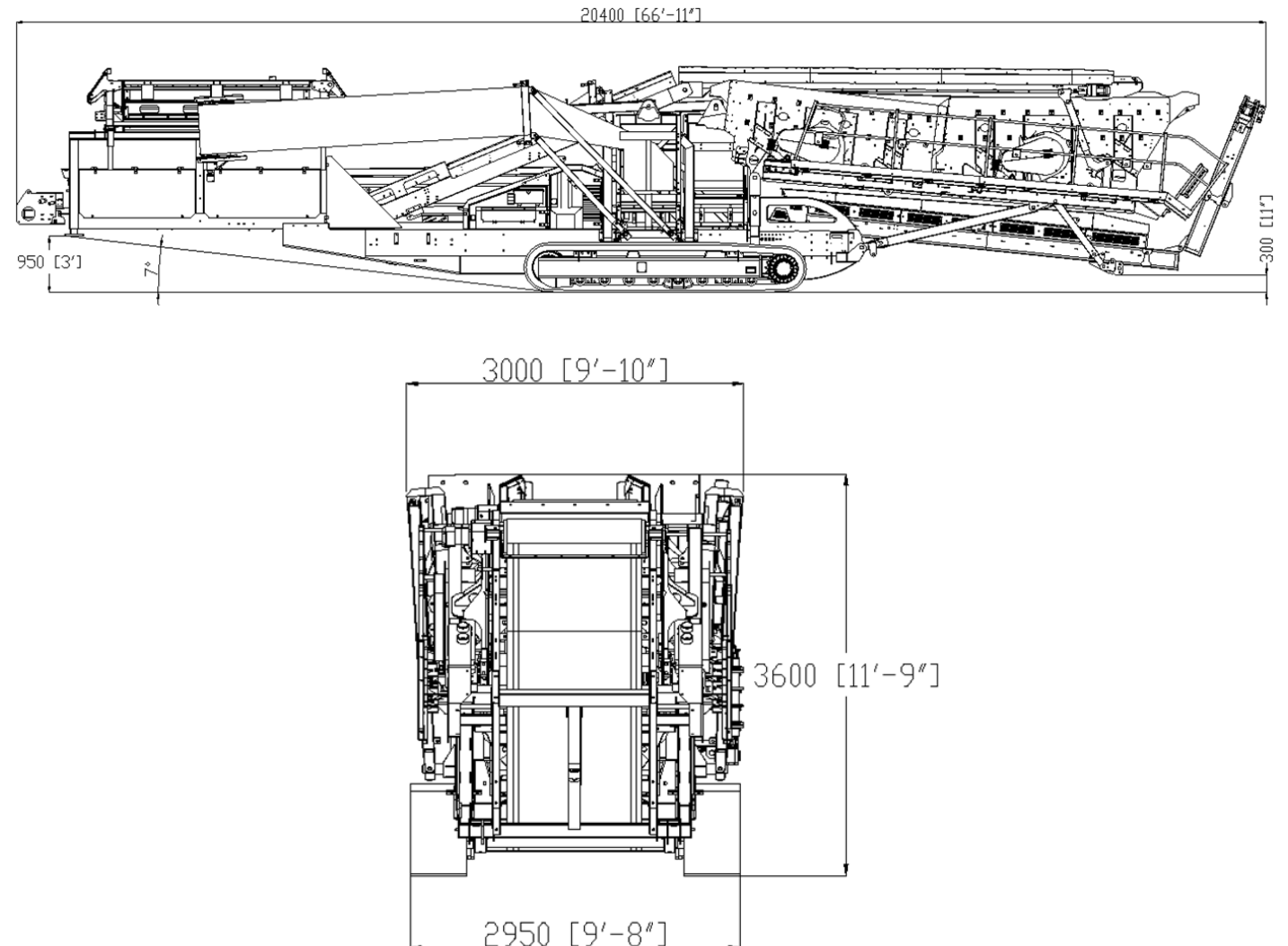


## CHIEFTAIN 2200 3 DECK



## DIMENSIONS

Figure 8: 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.

## **GET IN TOUCH**

### **Dungannon**

200 Coalisland Road, Dungannon,  
Co Tyrone, BT71 4DR, Northern Ireland  
Tel: +44 (0) 28 87 718 500  
Fax: +44 (0) 28 87 747 231

### **Louisville**

11001 Electron Drive,  
Louisville, Kentucky, 40299 USA  
Tel: +1 502 736 5200  
Fax: +1 502 736 5202

