

POWERSCREEN® CHIEFTAIN 2200

2 DECK INCLINE DOUBLE SCREEN



TECHNICAL SPECIFICATION - REV 3. 01/01/2019





CHIEFTAIN 2200 2 DECK



OVERVIEW

SPECIFICATION

	14ft Hopper (with grid) track	14ft Hopper (with DDVG) track
Total weight	35,350kg (77,933lbs)	39,100kg (86,201lbs)
Transport	Length 19.8m (64' 11")	19.8m (64' 11")
	Width 3m (9' 10")	3m (9' 10")
	Height 3.6m (11' 9")	3.6m (11' 9")
Working	Length 20.00m (65' 7")	19.86m (65' 2")
	Width 18.25m (59' 11")	18.25m (59' 11")
	Height 7.58m (24' 10")	7.58m (24' 10")
(screenbox at 37°)		
Screenbox	2 of 3.3m x 1.55m (11' x 5')	2 of 3.3m x 1.55m (11' x 5')
	Total of 6.6m x 1.55m (22' x 5')	Total of 6.6m x 1.55m (22' x 5')
Power Unit	Diesel / Hydraulic	Diesel / Hydraulic
Plant Colour	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 650 tph / 715 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
- Hydraulic screen tensioning
- Screen mesh access system for quicker mesh changes
- Maximum mobility with heavy duty, low ground pressure 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

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



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↓ HOPPER & GRID

Target area: 4.75m (15' 7") long x 2.15m (7' 1") wide

Grid aperture: 108mm (4.3")

Hopper capacity: 7m³ (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)





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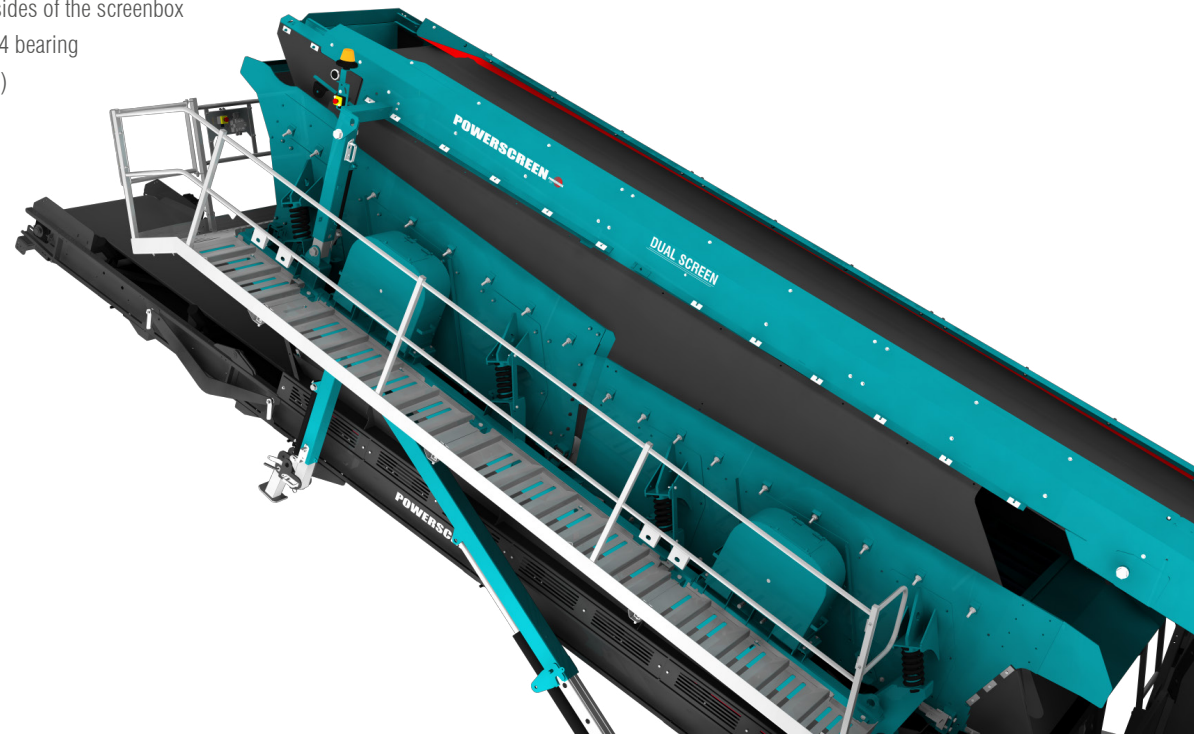
↓ SCREENBOXES

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

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

3 of media sections (side tension) top deck per screenbox - 6 Total
2 of media sections (end tension) bottom deck per screenbox - 4 Total

Hydraulic screen angle adjustment : 25° - 37°
Galvanised walkways on 3 sides of the screenbox
Dispatches as standard 2 x 4 bearing
Speed: 1140rpm (standard)
Throw: 6.5mm (standard)





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↓ 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

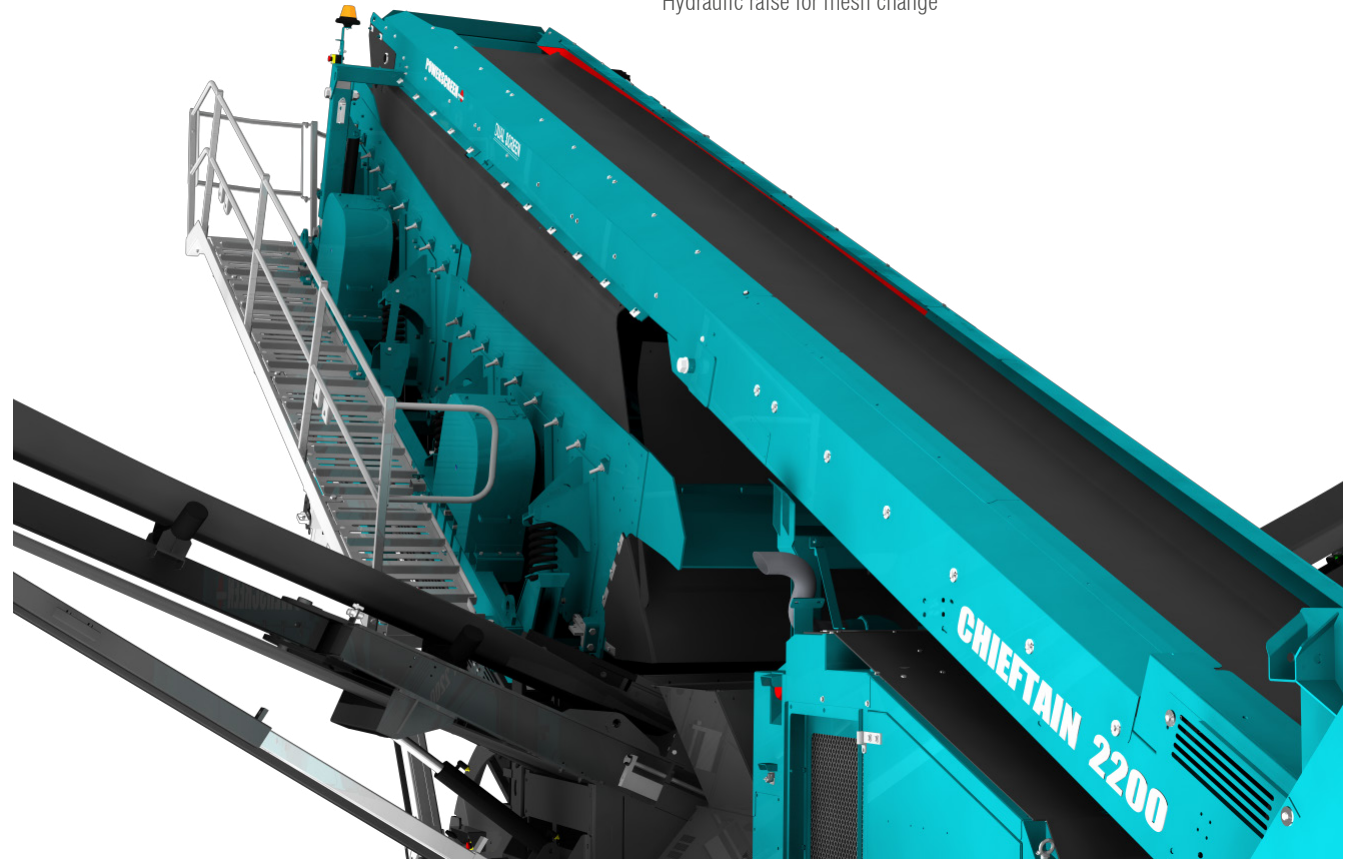
286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

Anti-rollback as standard

Hydraulically adjustable conveyor, fully skirted & sealed

Hydraulic raise for mesh change





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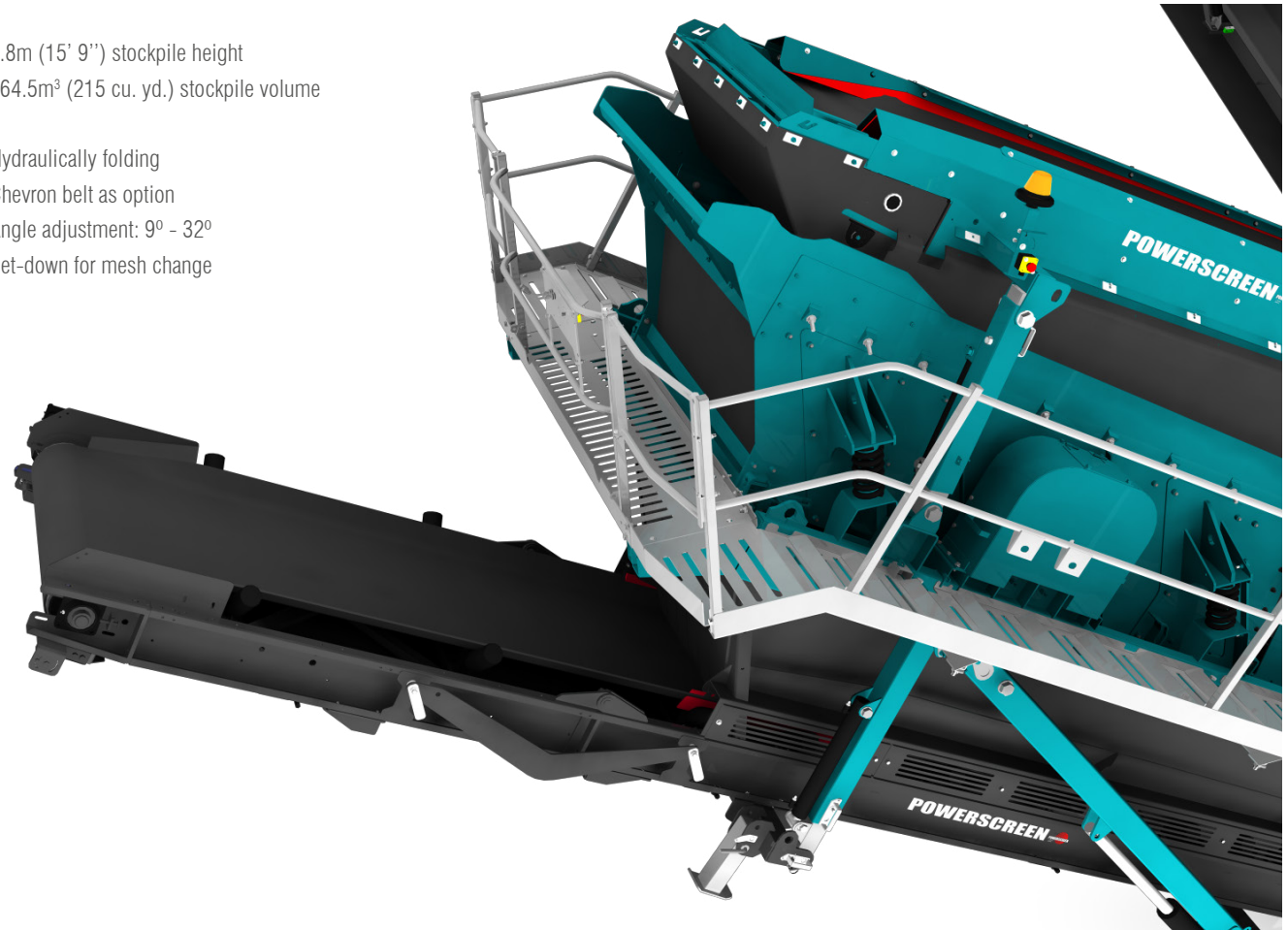
↓ CONVEYORS

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
164.5m³ (215 cu. yd.) stockpile volume

Hydraulically folding
Chevron belt as option
Angle adjustment: 9° - 32°
Set-down for mesh change





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↓ CONVEYORS

MID-FINESIZE & MID-OVERSIZ - 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

183m³ (239 cu. yd.) stockpile volume

Individual variable speed control

Hydraulically folding

Fixed angle: 24°





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↓ POWER UNIT & HYDRAULICS

Engine Tier 3 Equivalent:

CAT C4.4 LRC

Performance:

83 kW (110hp) @ 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: Cast iron triple 23/23/14cc/rev

Constant Speed Pumps:

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

PTO pump: 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





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↓ TRACKS

Track width:	500mm (1' 8")
Sprocket centres:	3838mm (12' 7")
Gradability degrees:	43.6°
Gearbox ratio:	1:166
Hydraulic motor:	85.9cc/rev
Approximate speed:	0.69kph (0.43mph)
Total flow per track:	96 Lpm

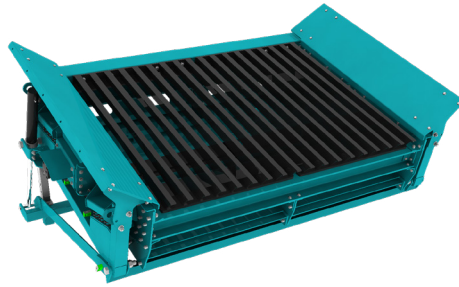




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↓ OPTIONS



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

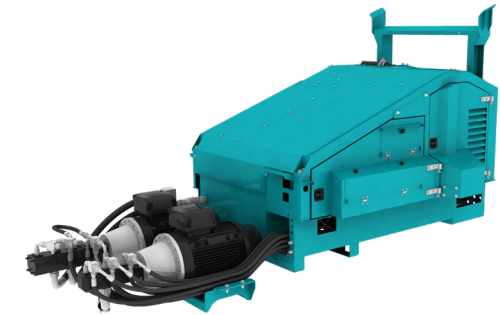
Motor: 56cc/rev

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) & 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



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↓ OPTIONS

OTHER OPTIONS

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





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↓ 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



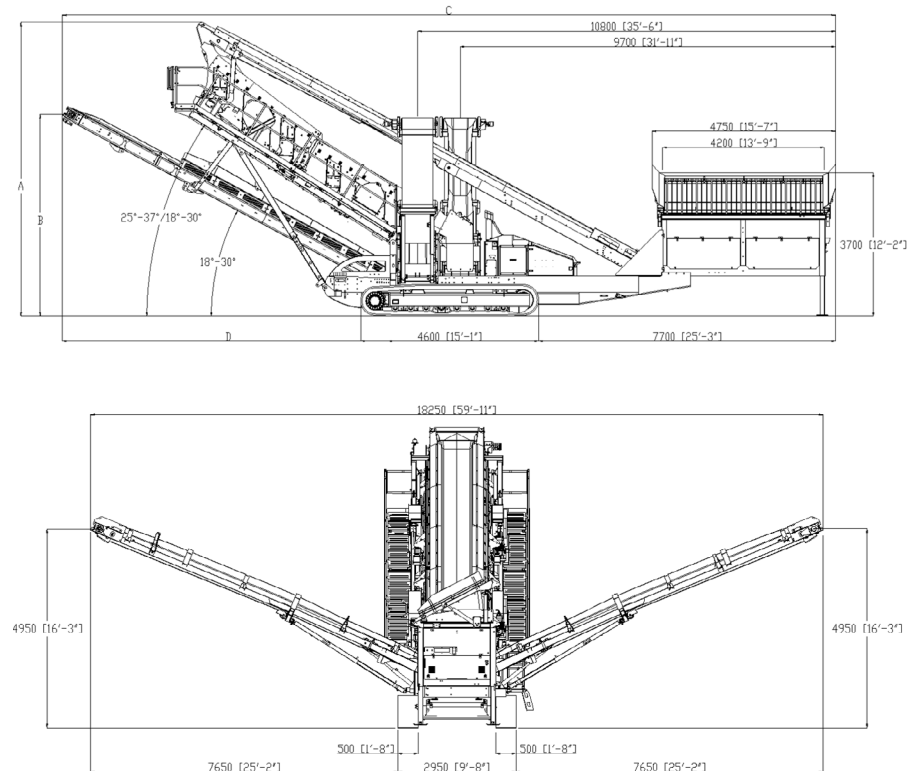
↓ DIMENSIONS

CHIEFTAIN 2200 2 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	37 / 30 DEG
A	6450	6700	6940	7175	7405	7580
B	3515	3885	4245	4595	4935	5200
C	20720	20600	20460	20310	20140	20000
D	8430	8310	8170	8020	7850	7720

Figure 1: Chieftain 2200 2 Deck Working Position



[MORE DIMENSIONS OVERLEAF](#)

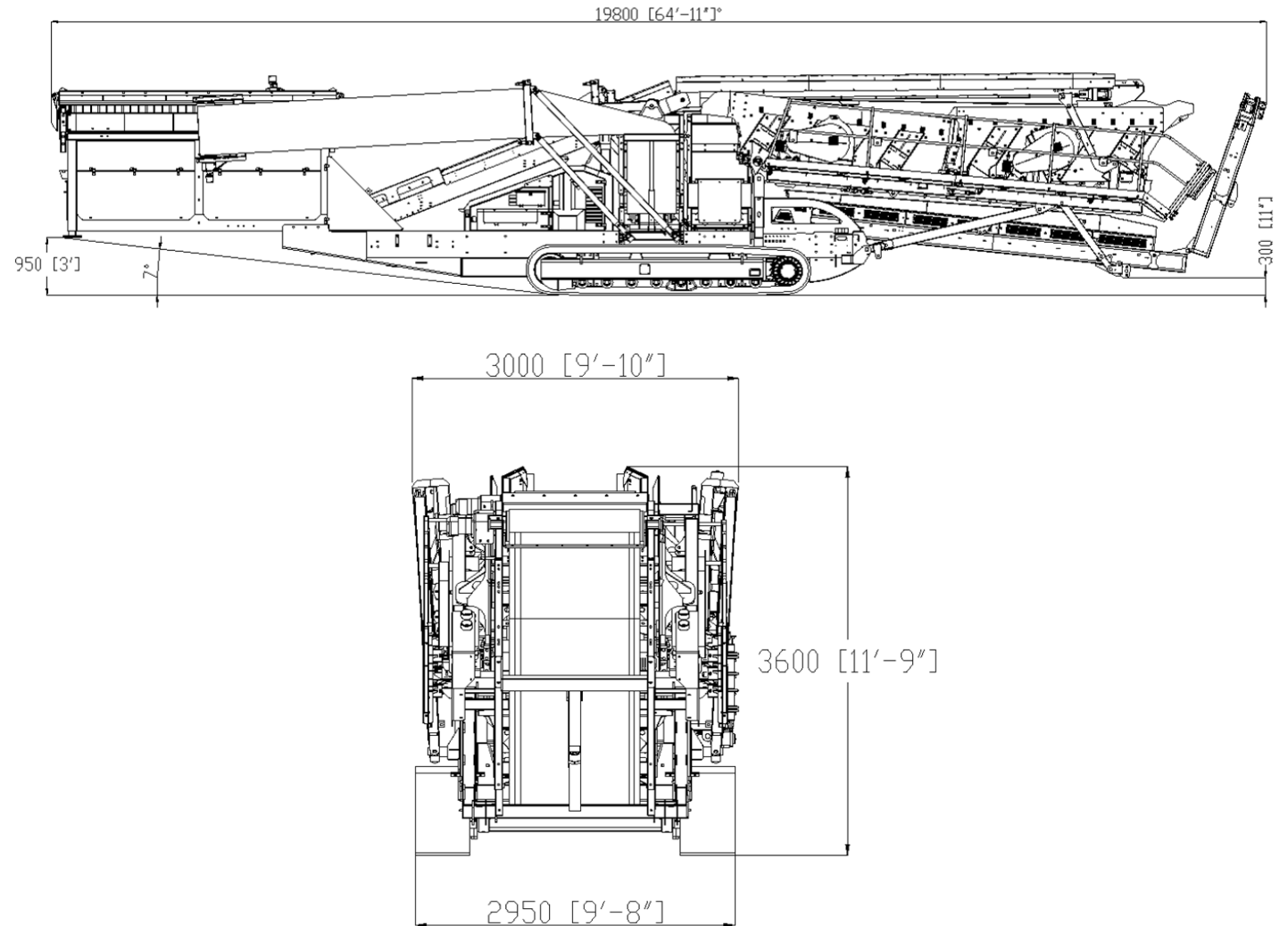


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DIMENSIONS

Figure 2: Chieftain 2200 2 Deck
Transport Position



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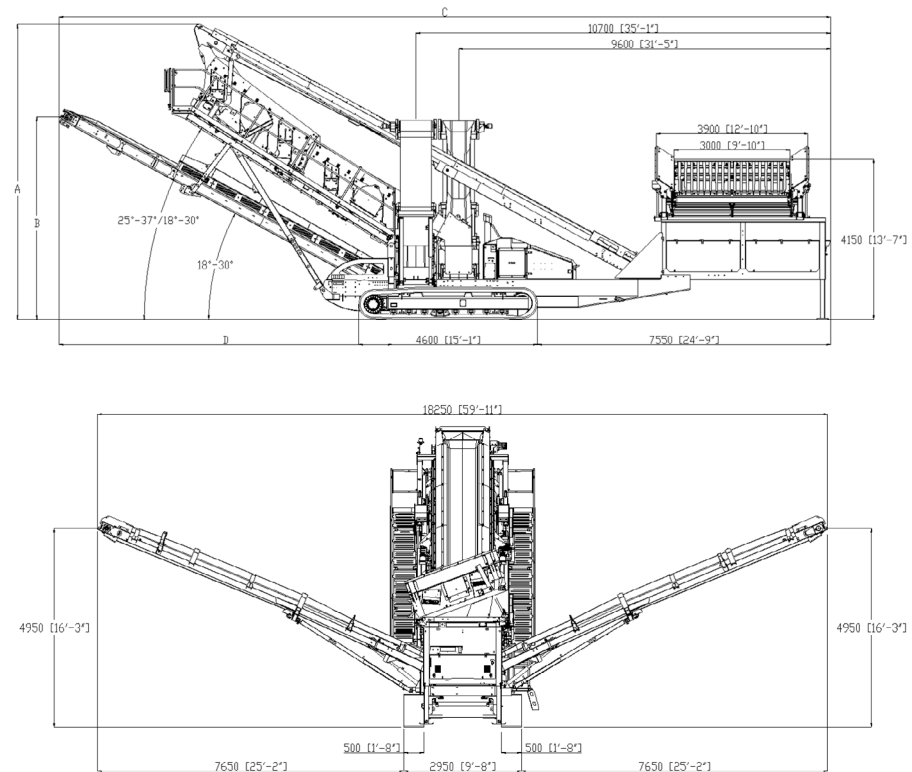
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DIMENSION (MM)	FEED / DISCHARGE SCREEN WORKING ANGLES (DEGREES)					
	25 / 18 DEG	27.5 / 20.5 DEG	30 / 23 DEG	32.5 / 25.5 DEG	35 / 28 DEG	37 / 30 DEG
A	6450	6700	6940	7175	7405	7580
B	3515	3885	4245	4595	4935	5200
C	20580	20460	20320	20170	20000	19860
D	8430	8310	8170	8020	7850	7720

Figure 3: Chieftain 2200 2 Deck
Double Deck Vibrating Grid
Working Position



[MORE DIMENSIONS OVERLEAF](#)

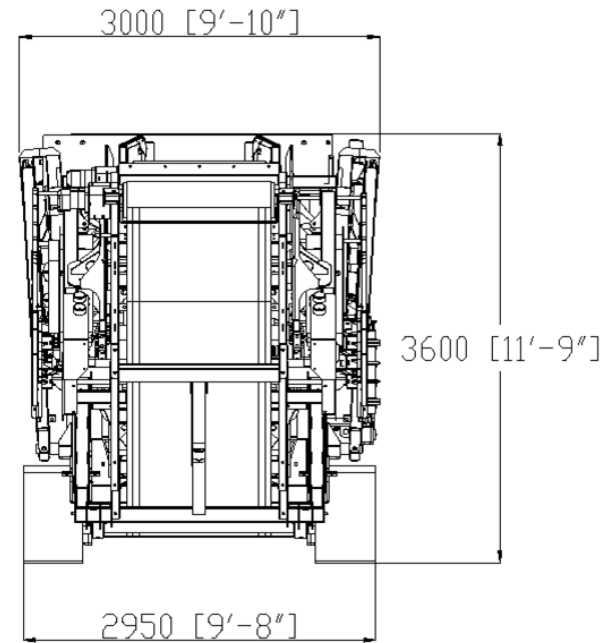
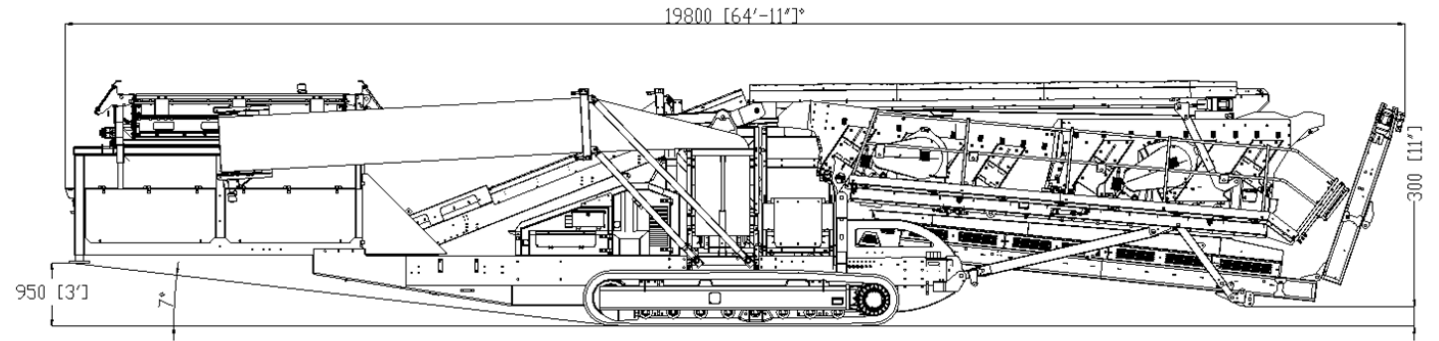


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DIMENSIONS

Figure 4: Chieftain 2200 2 Deck
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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