

POWERSCREEN® CHIEFTAIN 1400

2 DECK INCLINE SCREEN



TECHNICAL SPECIFICATION - REV 18 01/05/2025





CHIEFTAIN 1400



OVERVIEW

SPECIFICATION

	14ft Hopper (with grid) track
Total weight:	24,970kg (55,049lbs)
Transport	Length 15.55m (51') Width 3m (9' 10") Height 3.4m (11' 2")
Working	Length 16.64m (54' 7") Width 17.3m (56' 8") Height 5.12m (16' 10")
Screenbox:	3.3m x 1.5m (11' x 5')
Power unit:	Diesel - Hydraulic / Electric - Hydraulic (optional)
Plant Colour:	RAL 5021, RAL 7024 & RAL 9005
(Weights & dimensions are approximate base unit values)	

FEATURES & BENEFITS

- High capacity up to 400 tph / 441 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 single shaft incline screenbox with adjustable angle
- Hydraulic screen tensioning
- 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
- Angle adjustable tipping grid with radio control double acting tipping grid rams
- Low profile double deck vibrating grid option with radio remote control tipping grid, angle adjustable & fully riveted construction
- Hydraulically folding conveyors for transport
- Fines conveyor drop down facility to aid bottom deck mesh access
- 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
Foundry waste



Mining

Processed ores
Processed minerals



CHIEFTAIN 1400



HOPPER & GRID

Target area:	4.75m (15' 7") long x 2m (6' 7") wide
Grid aperture:	108mm (4.3")
Hopper capacity with grid:	6.7m ³ (8.75 cu. yd.)
Hopper capacity without grid:	6m ³ (7.8 cu. yd.)
Feed in height with grid:	3.89m (12' 9") (rear)
Feed in height without grid:	2.84m (9' 3") (rear)
Adjustable angle tipping grid with integral loading and wing plates	





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SCREENBOX

3.3m x 1.5m (11' x 5') 2 deck incline screen

Highly aggressive screen drive

Grease filled 4 bearing screenbox

3.3m x 1.5m (11' x 5') top deck

3m x 1.5m (10' x 5') bottom deck

Hydraulic screen angle adjustment: 27° - 37°

Combination side & end tensioned top deck

End tensioned bottom deck

Galvanised maintenance platforms on 3 sides of the screenbox

Hydraulic screen tensioning on end tensioned sections

Speed: 1140rpm **Throw:** 6mm





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CONVEYORS

FEED CONVEYOR

1050mm (42") 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

8.6m (28' 3") drum centres

286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

Hydraulically adjustable conveyor, fully skirted & sealed

Fixed speed





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CONVEYORS

FINESIZE - TAIL CONVEYOR

1200mm (48") wide 3 ply plain belt

5.91m (19' 5") drum centres

286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

3.93m (12' 11") stockpile height

90m³ (118 cu. yd.) stockpile volume

Fixed speed

Hydraulically folding

Chevron belt as option

Variable to 24°





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CONVEYORS

MIDSIZE & OVERSIZE SIDE CONVEYORS

650mm (26") wide 3 ply chevron belt

9.67m (31' 8") drum centres

286mm (11.3") drum diameter (drive)

270mm (10.6") drum diameter (tail)

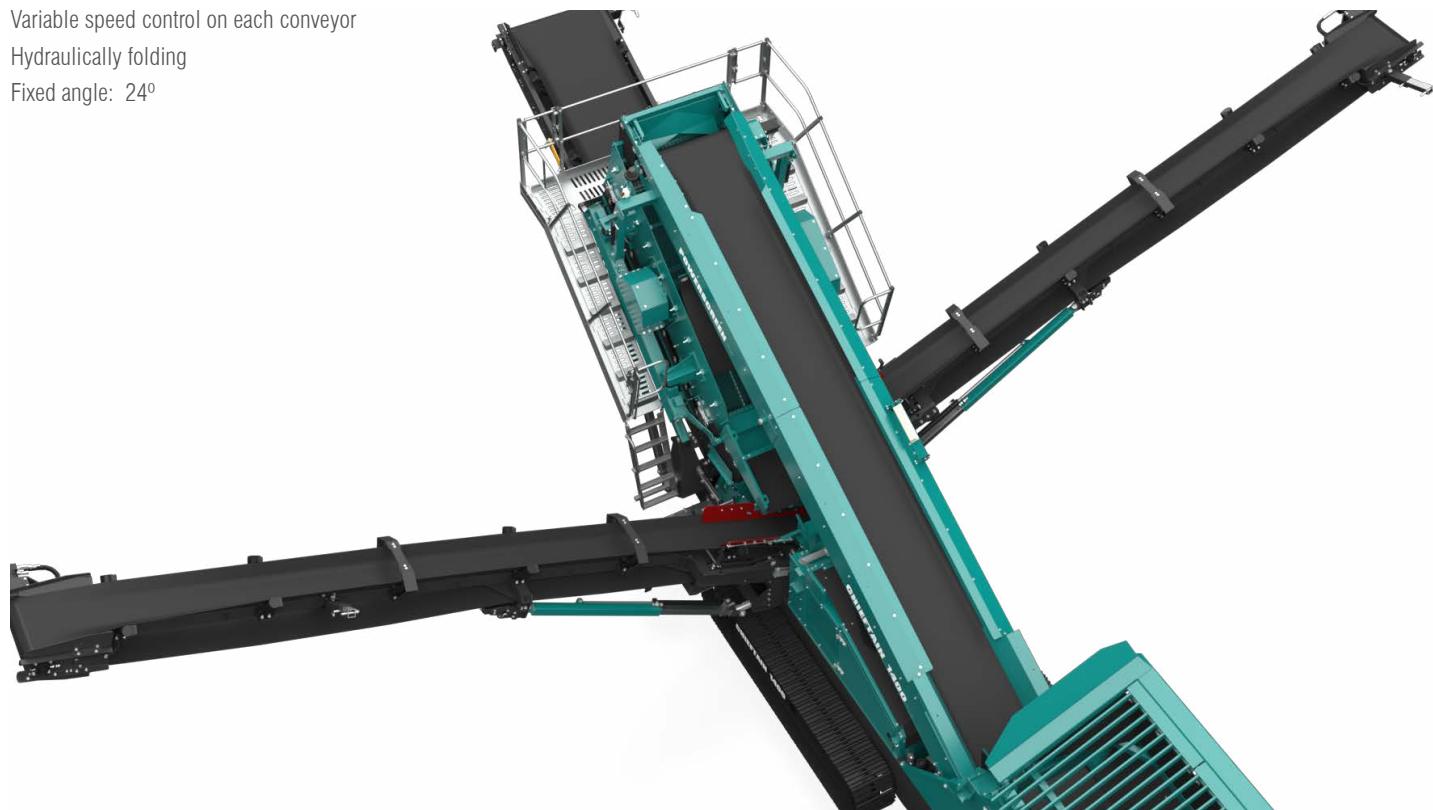
4.72m (15' 6") stockpile height

154m³ (201 cu. yd.) stockpile volume

Variable speed control on each conveyor

Hydraulically folding

Fixed angle: 24°





CHIEFTAIN 1400



POWER UNIT & HYDRAULICS

Engine Tier 3 Equivalent:

CAT C4.4

Performance:

83 kW (111.3hp) @ 2200rpm

Engine Tier 4 / Stage IV:

CAT C3.6

Performance:

82 kW (110hp) @ 2200rpm

Engine Stage V:

Cat C3.6

Performance:

82 kW (110hp) @ 2200rpm

Tank Capacities:

Fuel: 336 L (88 US Gal)

Hydraulic oil Tier 3: 564 L (149 US Gal)

Hydraulic oil Tier 4/Stage V: 450 L (118 US Gal)

Pumps:

Flywheel pump: Cast iron tandem 33/33cc/rev

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

Motors:

Belt feeder: Cast iron 160cc/rev

Main conveyor: Cast iron 630cc/rev

Tail conveyor: Cast iron 500cc/rev

Side conveyors: Cast iron 400cc/rev

Screen motor: Cast iron 56cc/rev





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TRACKS

Track width: 500mm (1' 8")

Sprocket centres: 2956mm (9'8")

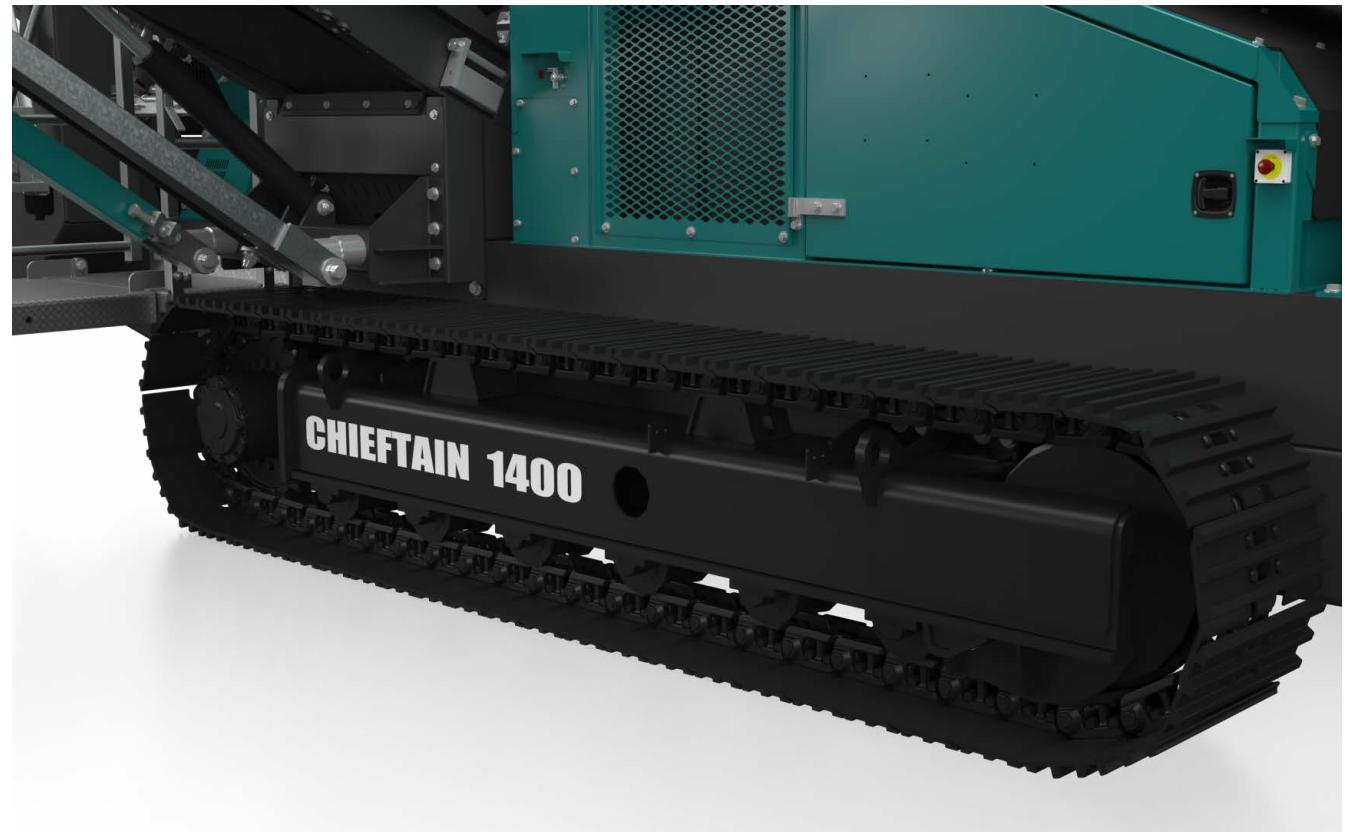
Gradability degrees: 30.34°

Gearbox ratio: 1:154

Hydraulic motor: 50.9cc/rev

Approximate speed: 0.9kph (0.56mph)

Total flow per track: 69 Lpm (approx.)

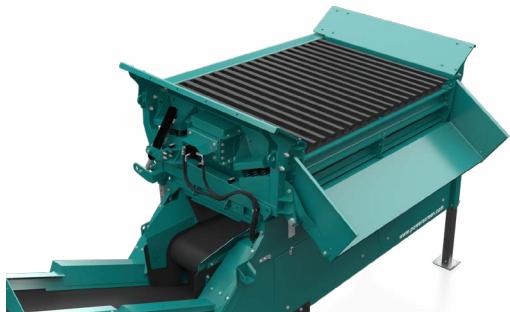




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OPTIONS



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: Run in series after to main conveyor circuit

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

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



DUAL POWER

Dual Power System:

2 of electric motors: 30 kW (40hp) & 30 kW (40hp) Diesel engine

Integrated control system

This controls either diesel-hydraulic or electric-hydraulic functions

Note: This option may alter transport dimensions and feed access. For further details please contact engineering for detailed drawings and dimensions.



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OPTIONS

OTHER OPTIONS

- Custom colour machine
- DDVG (Double deck vibrating grid)
- Adjustable hopper door
- Hopper wear plates
- Anti-roll back on main conveyor
- Wear resistant lined spreader plate
- Dual Power
- Hydraulic oil Grade 68
- Extra coupling facility - not available with Dual Power
- Quick release wedge screen tensioning system for side tensioned section
- Side tensioned top deck
- Bottom deck self cleaning flexible mesh
- Crawler tracks with radio remote





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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



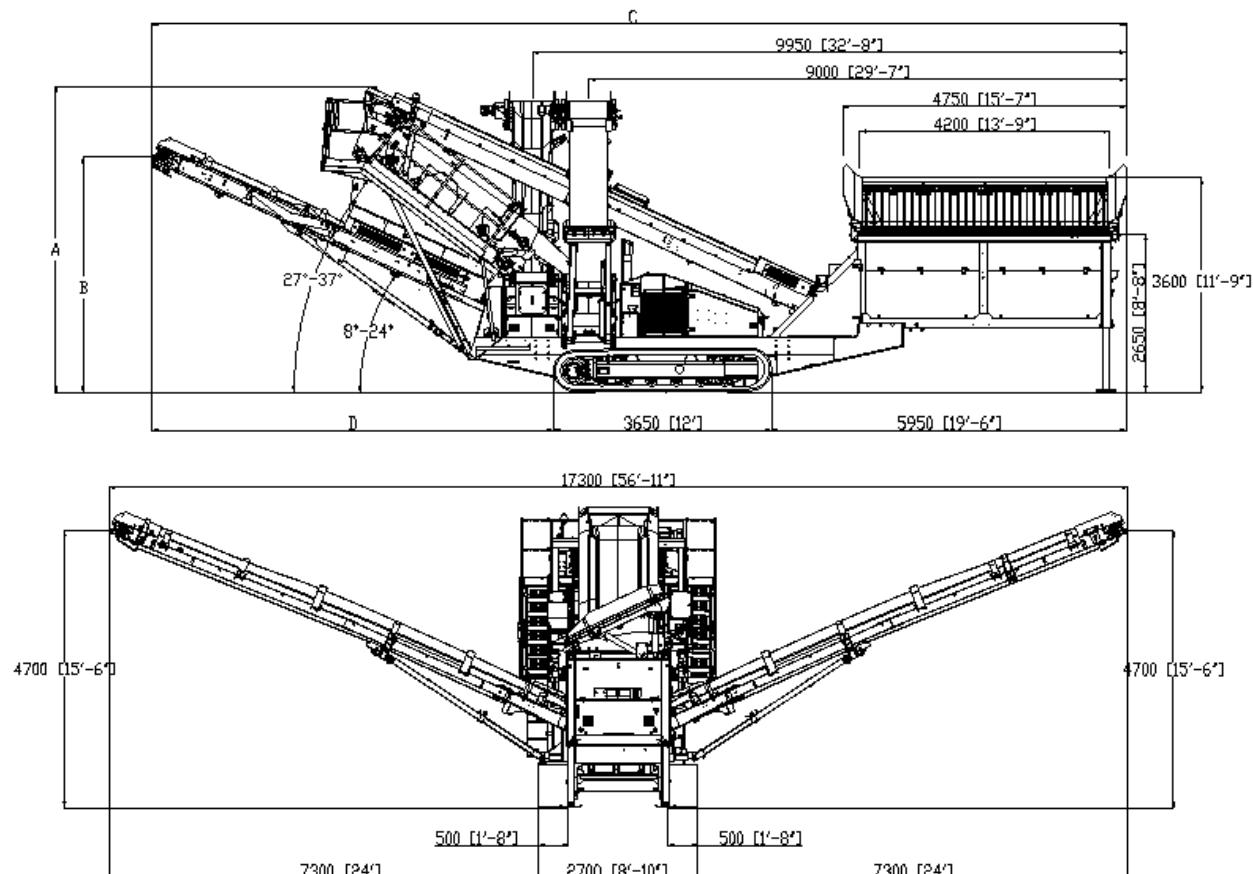
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DIMENSIONS

DIMENSION (MM)	27 DEG	30 DEG	33 DEG	37 DEG
A	4759	4871	4974	5112
B	3144	3144	3926	3926
C	16637	16637	16333	16333
D	7037	7037	6733	6733

Figure 1: Chieftain 1400 Track - Working Position



MORE DIMENSIONS OVERLEAF

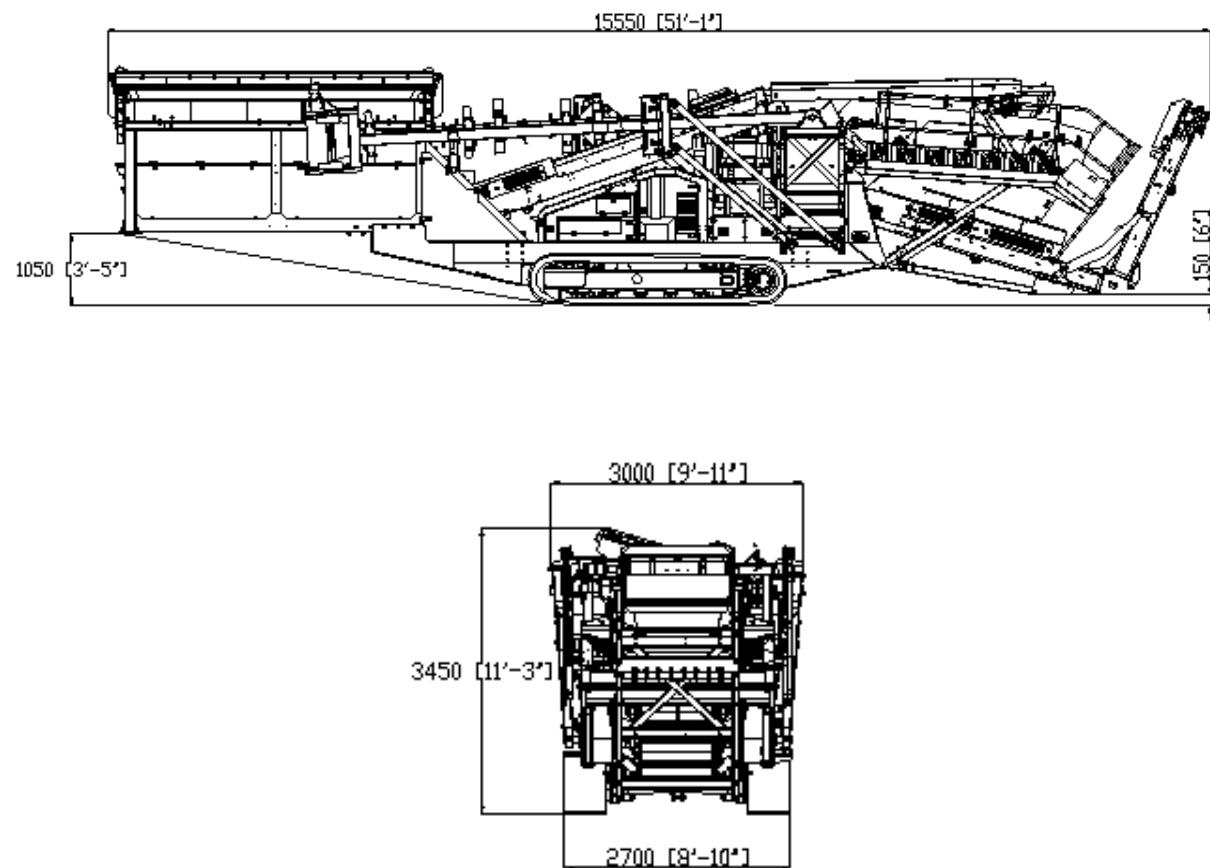


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DIMENSIONS

Figure 2: Chieftain 1400 Track - Transport Position



MORE DIMENSIONS OVERLEAF



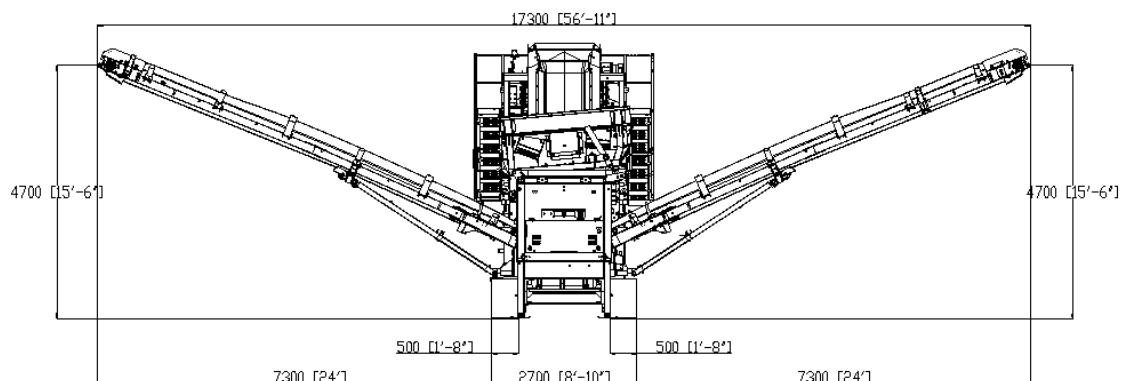
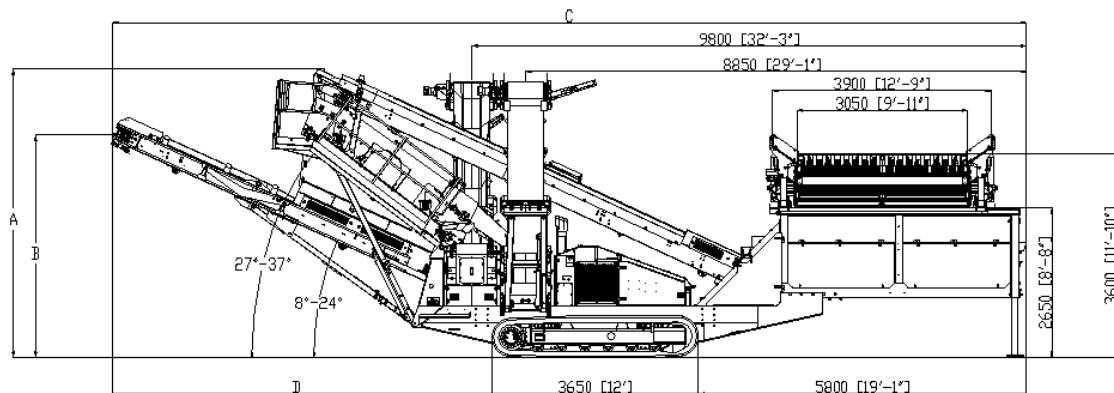
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DIMENSIONS

DIMENSION (MM)	27 DEG	30 DEG	33 DEG	37 DEG
A	4759	4871	4974	5112
B	3144	3144	3926	3926
C	16452	16452	16148	16148
D	7037	7037	6733	6733

Figure 5: Chieftain 1400 Track DDVG - Working Position



MORE DIMENSIONS OVERLEAF

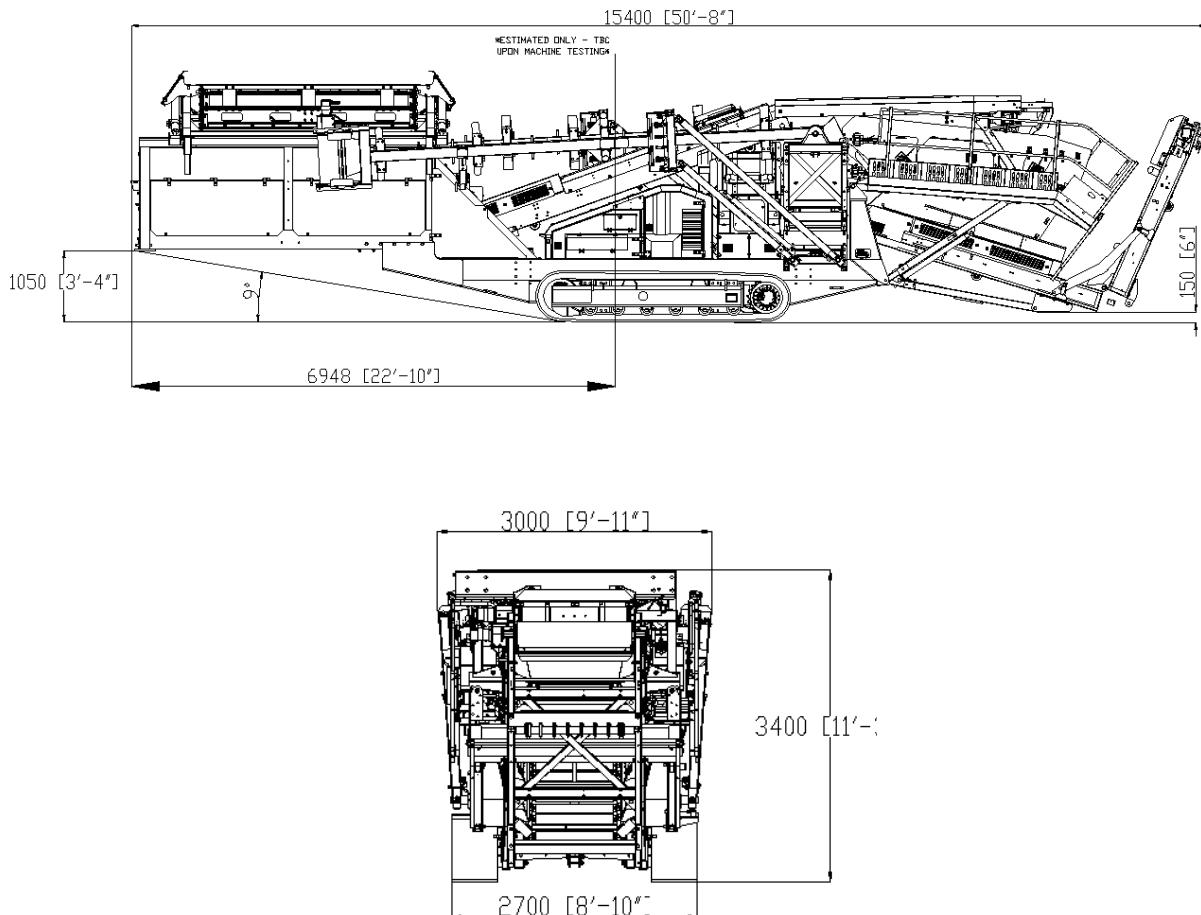


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DIMENSIONS

Figure 6: Chieftain 1400 Track DDVG - 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

