

POWERSCREEN® CHIEFTAIN 1500

3 DECK INCLINE SCREEN



TECHNICAL SPECIFICATION - REV 3 01/04/2024





CHIEFTAIN 1500



OVERVIEW

SPECIFICATION

Total weight: 28,000kg (61,729lbs)

Transport **Length** 16.76m (55')

Width 3m (9' 10")

Height 3.44m (11' 4")

Working **Length** 17.13m (56' 2")

Width 17.35m (56' 11")

Height 5.75m (18' 11")

Screenbox: 3.66m x 1.52m (12' x 5')

Power unit: Diesel / Hydraulic

Plant Colour: RAL 5021, RAL 7024 & RAL 9005

(Weight & 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").
- Triple deck screen with galvanised fixed walkway to give access to 3 sides of the screen for ease of operation and maintenance.
- The oversize auxiliary conveyor provides variable tilt and slew capabilities to accurately discharge material for recirculation or for stockpiling.
- Maximum utilisation of the 3 decks provides ultra efficient screening capabilities even at small piece sizes.
- Ease of material flow from the hopper to the main conveyor.
- Adjustable screen angle.
- Engine protection shutdown system.
- Power unit featuring a transverse engine arrangement to aid access & serviceability.
- Hydraulic bottom deck screen tensioning.
- Maximum mobility with heavy duty, low ground pressure tracks.
- Removable heavy duty pendant remote control system.
- Quick set up time.
- High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler.
- 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 1500



HOPPER & GRID

Target area: 4.24m (13' 11") x 1.61m (5' 3")

Grid aperture: 110mm (4")

Grid aperture options: 73mm (3"), 126mm (5"), 151mm (6")

Feed in height with tipping grid (rear): 3.15m (10' 4")

Feed in height without tipping grid (rear): 2.36m (7' 8")

Hopper capacity with tipping grid: 6.64m³ (8.68 cu. yd.)

Hopper capacity without tipping grid: 5.84m³ (7.64 cu. yd.)

Adjustable angle tipping grid with integral loading and wing plates





CHIEFTAIN 1500



SCREENBOX

3.66m x 1.52m (12' x 5') 3 deck incline screen

Highly aggressive screen drive

3.66m x 1.52m (12' x 5') top & middle deck

3m x 1.52m (10" x 5') bottom deck

Hydraulic screen angle adjustment: 18° - 37°

Hydraulic screen tensioning on bottom deck

Galvanised walkways on 3 sides of screen

Abrasion resistant impact plate

Speed: 1140rpm

Throw: 6mm





CHIEFTAIN 1500



CONVEYORS

FEED CONVEYOR

1050mm (42") wide, 3 Ply plain belt
Drum centres: 4.26m (13' 11")
Drive drum diameter: 344mm (13.5")
Tail drum diameter: 273mm (10.75")
Variable speed control: 0 - 16 m/m (0 - 53 ft/m)
Wide mouth opening

MAIN CONVEYOR

1000mm (40") 3 ply plain belt
Drum centres: 9.79m (32' 1")
Drive drum diameter: 293mm (11.5")
Tail drum diameter: 260mm (10")
Angle adjustment: 21° - 28°
Max belt speed: 99 m/m (324 ft/m)
Steel skirted full length of conveyor





CHIEFTAIN 1500



CONVEYORS

FINESIZE - TAIL CONVEYOR

1200mm (48") wide 3 ply plain belt

5.58m (18' 4") belt centres

4.25m (13' 11") stockpile height

114m³ (149 cu. yd.) stockpile volume

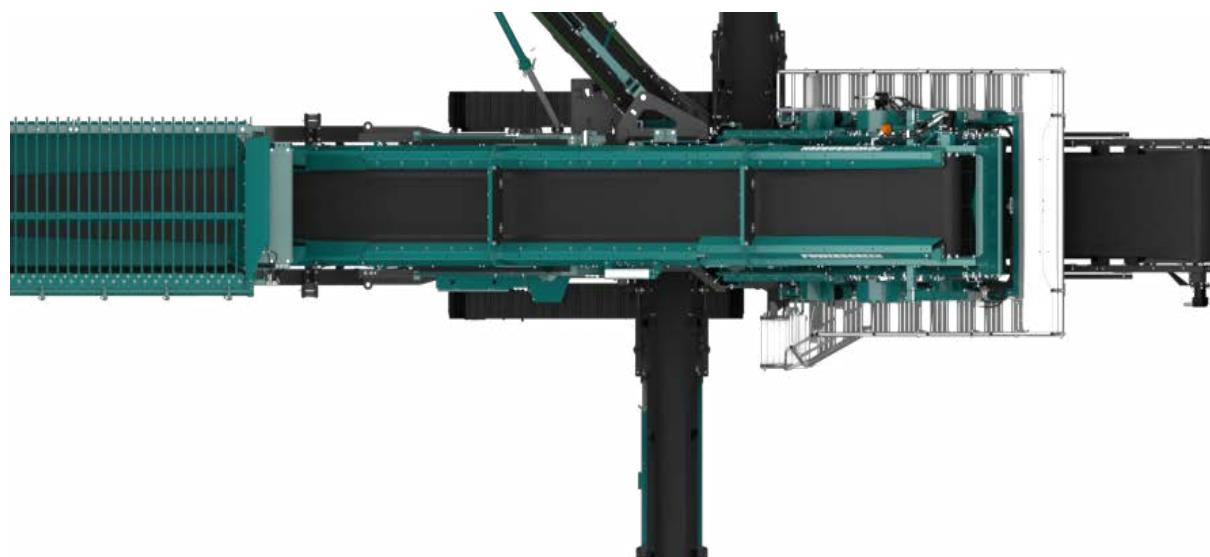
Fixed speed - 147 m/m (482 ft/m)

Hydraulically folding

Chevron belt as option

Angle adjustment: 14° - 33°

Rosta scraper on head drum





CHIEFTAIN 1500



CONVEYORS

MID-FINESIZE & MID-OVERSIZE - SIDE CONVEYORS

650mm (26") wide 3 ply chevron belt

9.67m (31' 8") belt centres

4.76m (15' 7") stockpile height

160m³ (209 cu. yd.) stockpile volume

Variable speed control on each conveyor

Max belt speed: 73m/m (239 ft/m)

Hydraulically folding

Fixed angle: 24°





CHIEFTAIN 1500



CONVEYORS

OVERSIZE AUXILIARY CONVEYOR

500mm (20") wide 3 ply chevron belt

8.47m (27' 10") belt centres

4.47m (14' 8") stockpile height

133m³ (173 cu. yd.) stockpile volume

Variable speed control

Angle (rake): 20°

Variable angle (slew): 30° – 60°

Oversize feed chute from top deck





CHIEFTAIN 1500



POWER UNIT & HYDRAULICS

Engine Tier 3:

CAT C4.4

Performance:

77 kW (103hp) @ 1800rpm

Engine Tier 4F / Stage IV:

CAT C3.6

Performance:

82 kW (110hp) @ 1800rpm

Engine Stage V:

CAT C3.6

Performance:

98 kW (131hp) @ 1800rpm

Tank Capacities:

Fuel: 336 L (88 US Gal)

Hydraulic Tier 3: 564L (149 US Gal)

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

Pumps:

Flywheel pump: Cast iron triple 61/41/41cc/rev

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

Motors:

Belt feeder: Cast iron 160cc/rev

Main conveyor: Cast iron 500cc/rev

Tail conveyor: Cast iron 630cc/rev

Side conveyors: Cast iron 400cc/rev

Auxiliary conveyor: Cast iron 500cc/rev

Screen motor: Cast iron 80cc/rev





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TRACKS

Track width: 400mm (1' 4")

Sprocket centres: 2.92 (9' 7")

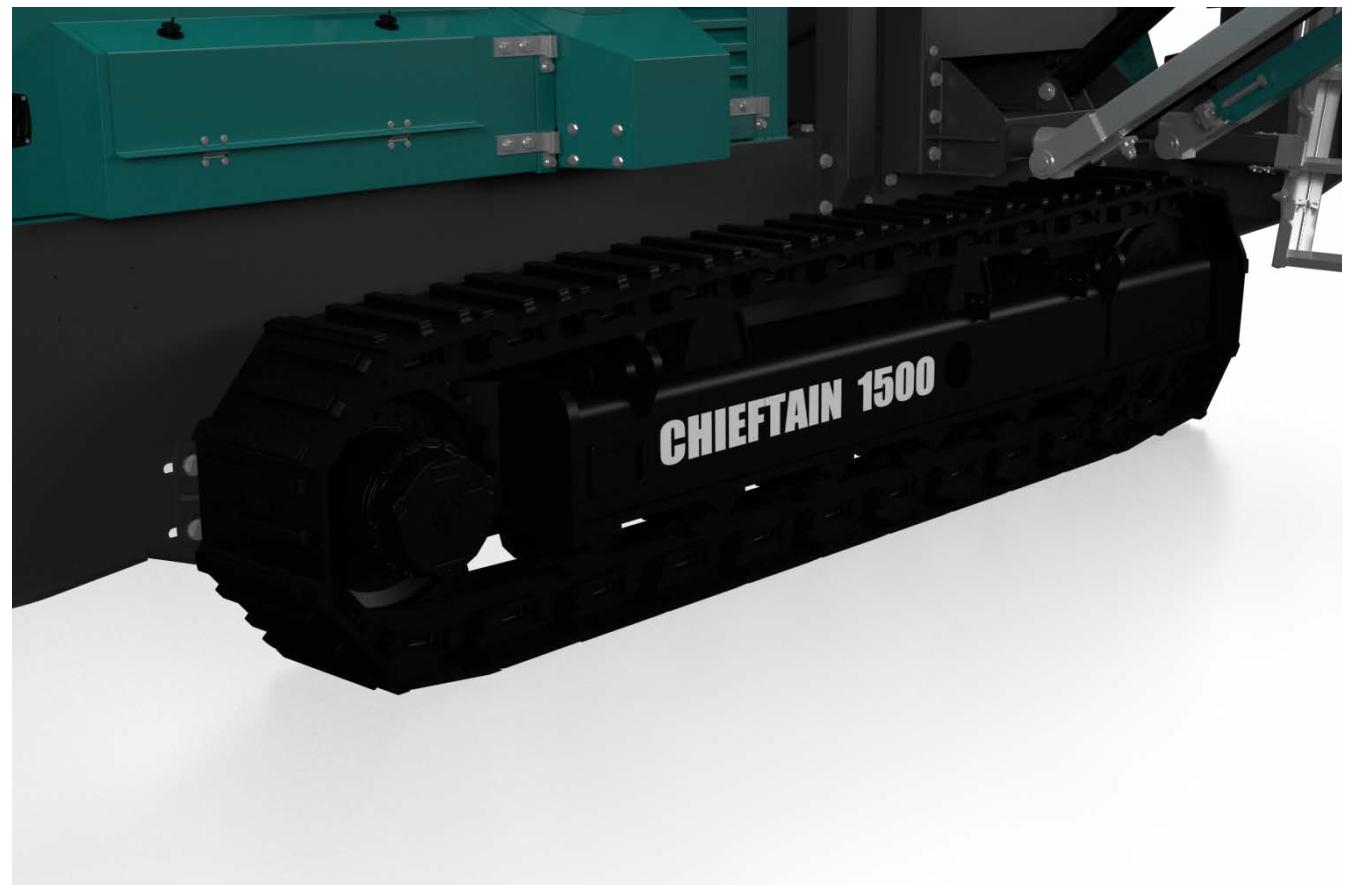
Gradability degrees: 25.5°

Approximate speed: 0.8kph (0.5mph)

Gearbox ratio: 1:154

Hydraulic motor: 50.9cc/rev

Total flow per track: 71 Lpm (approx.)





CHIEFTAIN 1500



OPTIONS

OPTIONS

- No grid but hopper dead plate fitted
- 10mm bolt in hopper wear resistant wear plates
- Screenbox reversal control
- Wear resistant main conveyor spreader plate
- Hydraulic raise of main conveyor head section
- Radio remote control of tracks
- Working lights on main conveyor and power unit
- 68 grade hydraulic oil
- Standard stockpiler drive - only when no tipping grid fitted
- Quad pump stockpiler drive





CHIEFTAIN 1500



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

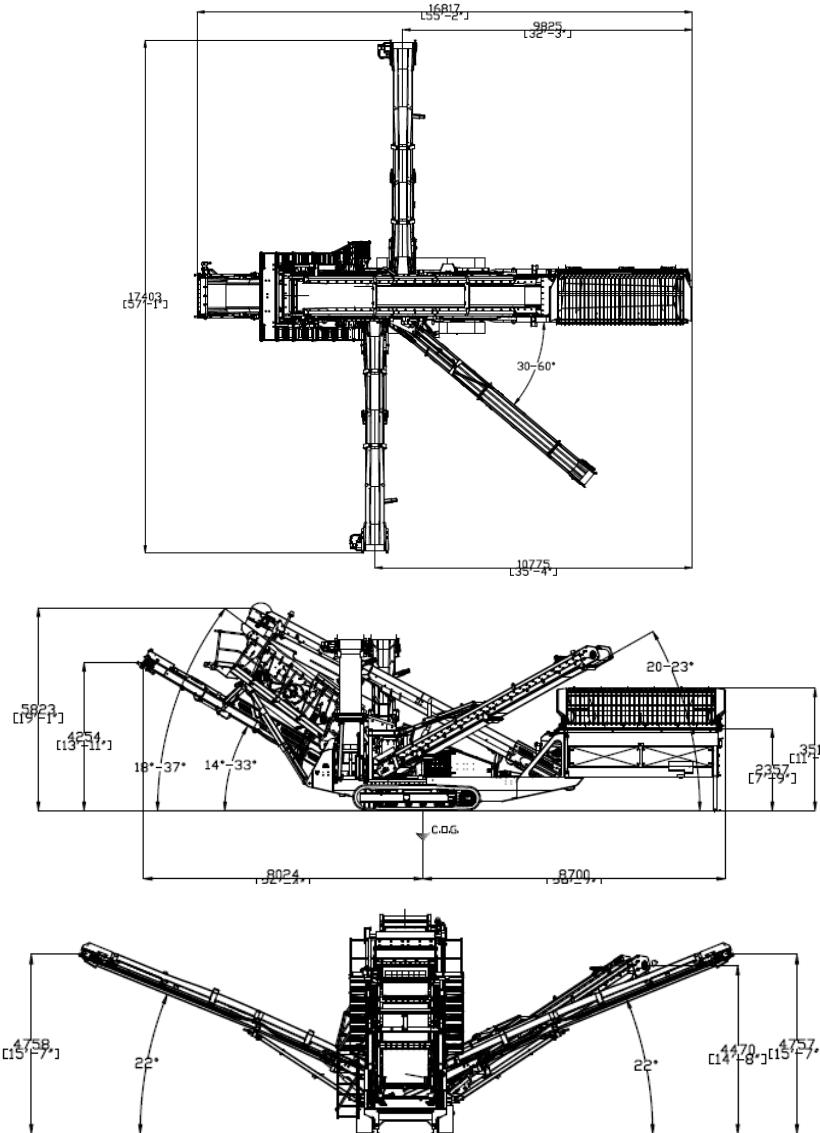


CHIEFTAIN 1500



DIMENSIONS

Figure 1: Chieftain 1500
Working Position



MENSIONS OVERLEAF

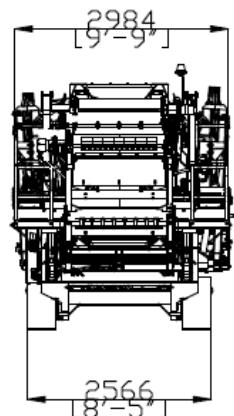
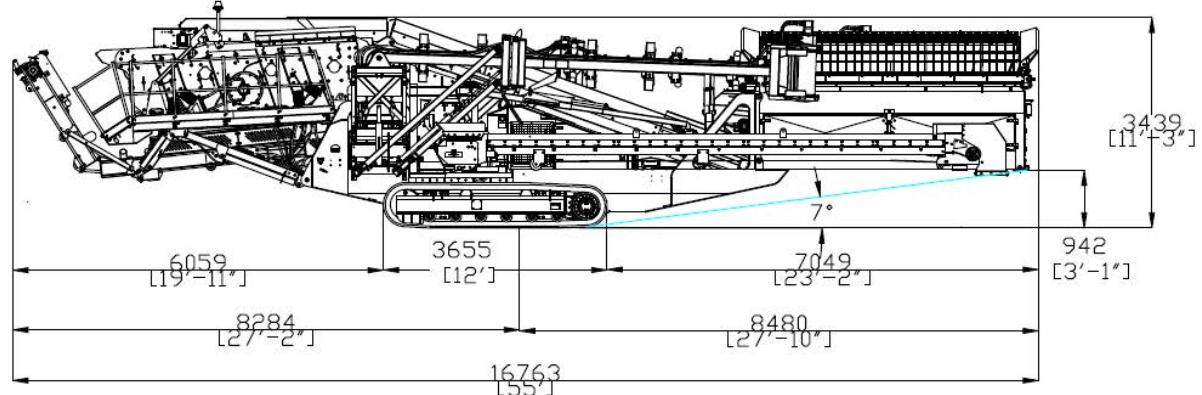


CHIEFTAIN 1500



DIMENSIONS

Figure 2: Chieftain 1500
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



APPENDIX 1 - ENGINE OPTIONS

- Powerunit options that may be fitted in place of technical specification offering subject to availability

Screens – Tier 4 Final

CAT C4.4 82kW (110hp) @ 2200rpm as per Chieftain 1400, Chieftain 1500, Chieftain 2100X 2 deck, Chieftain 2200 2 deck and Warrior 1800

Option 1.) CAT C3.6 82kW (110hp) @ 2200rpm

Option 2.) CAT C4.4 102kW (137hp) @ 2200rpm

CAT C4.4 98kW (131hp) @ 2200rpm as per Chieftain 2100X 3 deck and Chieftain 2200 3 deck

Option 1.) CAT C4.4 102kW (137hp) @ 2200rpm

CAT C4.4 82kW (110hp) @ 1800rpm as per Chieftain 1700X and Warrior 1400X

Option 1.) CAT C3.6 82kW (110hp) @ 1800rpm

Option 2.) CAT C4.4 98kW (131hp) @ 1800rpm

Screens – Stage V

CAT C4.4 102kW (137hp) @ 2200rpm as per Chieftain 1400, Chieftain 1500, Chieftain 2100X, Chieftain 2200 and Warrior 1800

Option 1.) CAT C3.6 82kW (110hp) @ 2200rpm

Option 2.) JCB 4.8 81kW (109hp) @ 2200rpm

Option 3.) JCB 4.8 97kW (130hp) @ 2200rpm

Option 4.) Deutz TD3.6 100kW (134hp) @ 2200rpm

CAT C4.4 98kW (131hp) @ 1800rpm as per Chieftain 1700X, Warrior 1400X and Warrior 2100

Option 1.) CAT C3.6 82kW (110hp) @ 1800rpm

Option 2.) CAT C4.4 98kW (131hp) @ 1800rpm

Option 3.) JCB 4.8 80kW (108hp) @ 1800rpm

Option 4.) Deutz TD3.6 92kW (123hp) @ 1800rpm

