

POWERSCREEN® TITAN 2300

2 DECK SECONDARY SCALPING SCREEN



TECHNICAL SPECIFICATION - REV 3 01/02/2023





TITAN 2300



OVERVIEW

SPECIFICATION

Total weight		37,000kg (81,571lbs)
Transport	Length	18.2m (59' 10")
	Width	3m (9' 11")
	Height	3.6m (11' 10")
Working	Length	16.5m (54' 3")
	Width	15.36m (50' 5")
	Height	4.93m (16' 2")
Screenbox	6.1m x 1.83m (20' x 6')	
Powerunit	Diesel / Hydraulic	
Plant Colour	RAL 5021 , RAL 7024 & RAL 9005	

(Weights & dimensions are approximate base unit values)

FEATURES & BENEFITS

- High capacity up to 700 tph / 771 US tph (depending on media sizes & material type)
- Maximum feed size 450mm (18") . Maximum allowable feed size may vary depending on material type and screenbox media
- Twin drive inclined belt feeder featuring impact bars & impact rollers
- Large capacity hopper manufactured from wear resistant steel – optional extensions available
- Jack up screen facility for access to screen media & collection conveyor
- Aggressive single shaft, 2 bearing screen
- Maximum mobility with heavy duty, low ground pressure tracks complete with removable pendant remote control system
- Quick set up time
- Hydraulically folding side conveyors for transport
- High performance hydraulic system – cast iron pumps & motors complete with hydraulic cooler
- Capable of a 3-Way or 2-Way material split, this highly versatile screener can be operated as a standalone unit or as a secondary scalper in a wide variety of applications
- Simple to operate & maintain
- Wide variety of screen media available
- 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



TITAN 2300



HOPPER

Target area: 5m (16' 5") long x 2.75m (9') wide

Hopper capacity: 6.2m³ (8.1 cu. yd.)

Hopper capacity extensions: 11m³ (14.4 cu. yd.)

Additional weight for hopper extensions: 800kg (1,764lbs)

Feed in height (side): 4.9m (16' 1") - highest point

Feed in height (rear): 3.4m (11' 2") - rear door lowered, 3.75m (12' 3") - rear door raised

Feed in height with extensions (side): 4.9m (16' 1") - highest point

Hopper sides manufactured from wear resistant steel

Rear wall collapsible for direct feeding

Hydraulic slide & raise facilities for transport

Optional hydraulic folding hopper extensions





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SCREENBOX

6.1m x 1.83m (20' x 6') 2 deck screen

Highly aggressive single shaft, 2 bearing screen drive

Adjustable stroke & speed

Top deck: 6.1m x 1.83m (20' x 6')

Bottom deck: 5.5m x 1.83m (18' x 6')

Side tensioned or modular top deck

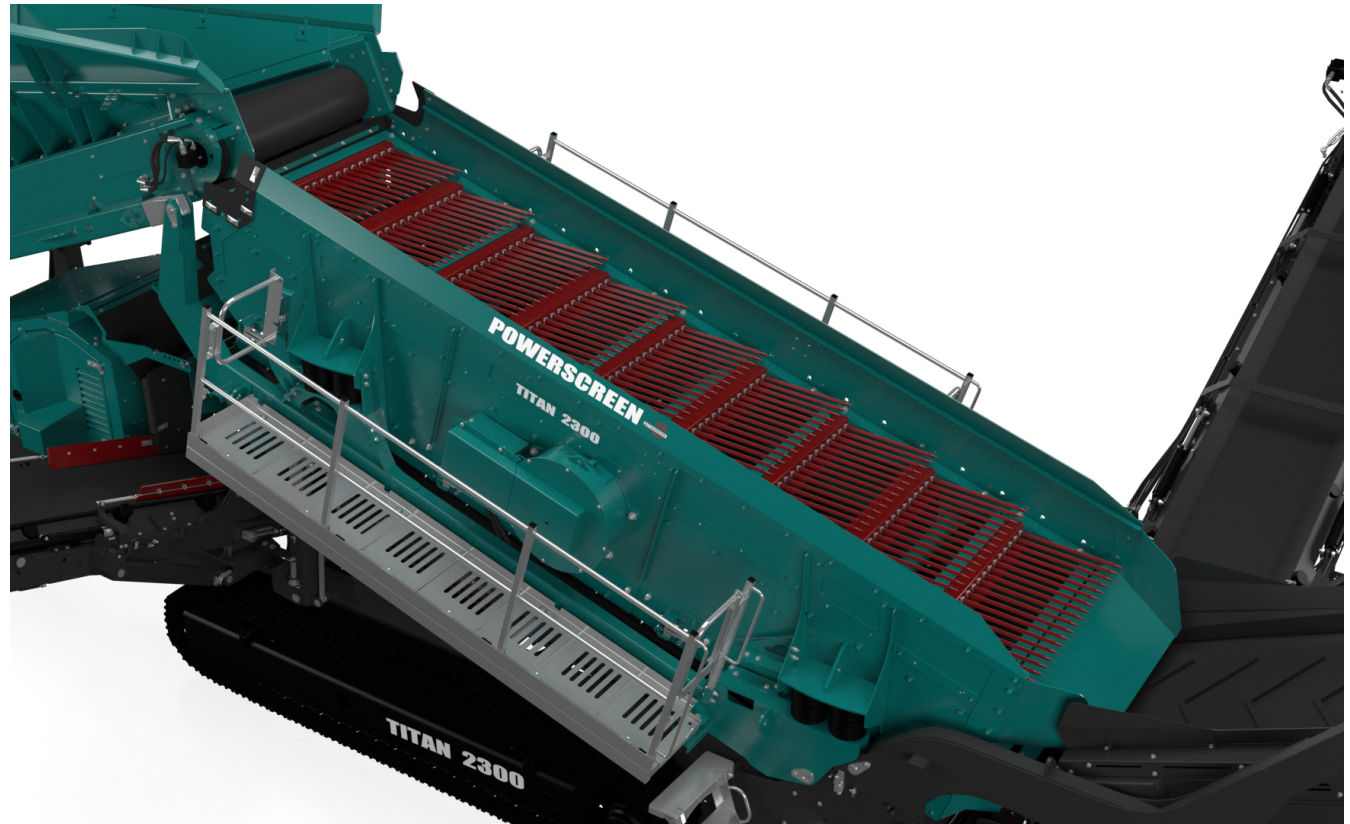
End tensioned or modular bottom deck

Hydraulic screen angle adjustment 13° - 17°

Jack-up screen facility for access to screen media

Galvanised maintenance platforms on both sides of screen - folds for transport.

Stroke: 8mm at 1000rpm





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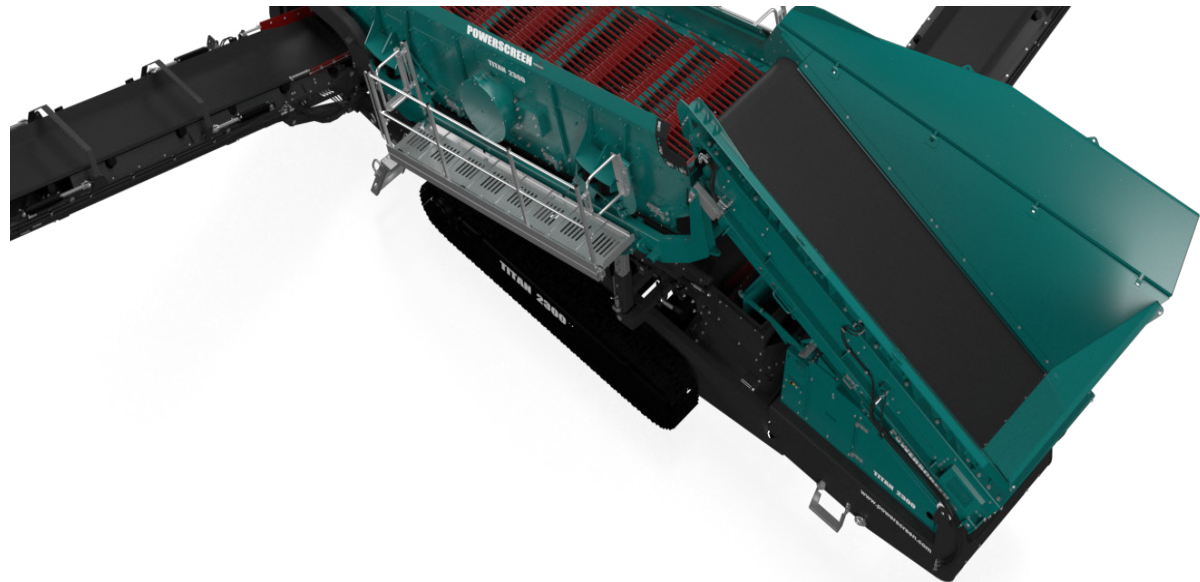


CONVEYORS

BELT FEEDER

1500mm (60") Plain belt
4.3m (14' 1") drum centres
375mm (14.8") Drive drum diameter
320mm (12.6") Tail drum diameter

Heavy duty impact bars & impact rollers
Heavy duty twin gearbox drive
Variable speed control





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CONVEYORS

UNDERSCREEN CONVEYOR

1400mm (56") plain belt
 5.54m (18' 2") drum centres
 293mm (11.5") Drive drum diameter
 273mm (10.7") Tail drum diameter

Accessible via jack-up screen facility
 Single tear-drop scraper as standard

OVERSIZE - TAIL CONVEYOR

1600mm (64") chevron belt
 5.4m (17' 9") drum centres
 3.85 m (12' 8") stockpile height
 85m³ (111 cu. yd.) stockpile capacity
 286mm (11.3") Drive drum diameter
 203mm (8") Tail drum diameter
 Manual angle adjust
 Impact bar/ roller combination
 Angle adjustable 18° - 24°
 Variable speed control





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CONVEYORS

FINESIZE - SIDE CONVEYOR

1050mm (42") plain belt
 8.3m (27' 3") drum centres
 4.1m (13' 5") stockpile height
 103m³ (135 cu. yd.) stockpile capacity
 273mm (10.7") Drive drum diameter
 273mm (10.7") Tail drum diameter
 Impact rollers under feedboot area
 Variable speed control
 Hydraulically folding, angle adjustable 20° - 24°
 Operates on separate hydraulic circuit

MIDSIZE - SIDE CONVEYOR

1050mm (42") plain belt
 8.7m (28' 7") drum centres
 4.1m (13' 5") stockpile height
 103m³ (135 cu. yd.) stockpile capacity
 273mm (10.7") Drive drum diameter
 273mm (10.7") Tail drum diameter
 Impact rollers under feedboot area
 Variable speed control
 Hydraulically folding, angle adjustable 20° - 26°
 Operates on separate hydraulic circuit





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POWER UNIT & HYDRAULICS

Engine Tier 4F / Stage V:

Caterpillar C4.4

Performance:

129 kW (173hp) @ 2200rpm

Tank Capacities:

Fuel: 336 L (89 US Gal)

Hydraulic Oil: 450 L (119 US Gal)

Pumps:

Flywheel:

Cast iron quad 63/63/32/32cc/rev

PTO 'A':

Cast iron tandem 29/29cc/rev

Motors:

Belt feeder:

Cast Iron 125cc/rev Twin

Tail conveyor:

Cast iron 400cc/rev Twin

Mid fines side conveyor:

Cast iron 500cc/rev

Underscreen conveyor:

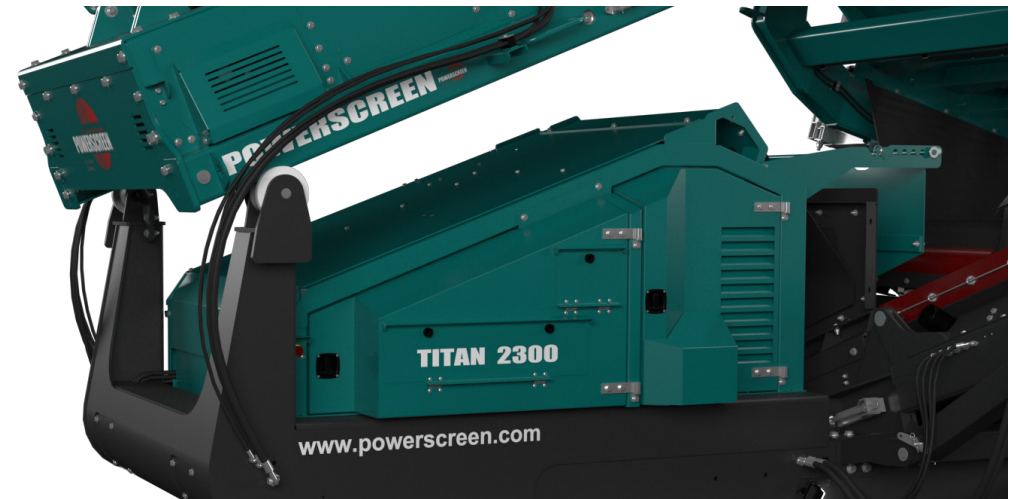
Cast iron 630cc/rev

Fines conveyor:

Cast iron 500cc/rev

Screen:

Cast iron 93cc/rev bent axis





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TRACKS

Track width:	500mm (1' 8")
Sprocket centres:	3840mm (12' 7")
Approximate speed (slow):	0.52 kph (0.32mph)
Approximate speed (fast):	0.92 kph (0.57mph)
Total flow per track:	70 Lpm per side
Gradability:	35°





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OPTIONS

OTHER OPTIONS

- Custom colour machine
- Chevron side conveyor belts
- Auto lubrication system
- Radio controlled tracking
- Reverse side conveyors
- Rubber screen blanket
- Magnetic head drum & chutes (Fines, Mids & Tail conveyors - chutes removed for transport on the side conveyors)
- Quick release wedge tensioning (side tensioned only)
- Wide range of media
- Wear resistant or mild steel punch plate
- Plain belt for tail conveyor
- Hydraulically folding hopper extensions
- Heavy duty 'Toughflex' feeder belt
- Medium speed, twin gearbox feeder drive
- Tail conveyor full length impact bed
- Single motor, high speed drive on tail conveyor
- Impact rail feedboots on side conveyors
- Plant built as a Two way split (mids conveyor removed)
- Secondary scraper on underscreen conveyor
- Underscreen conveyor service lift
- Grade 68 hydraulic oil

NOTE If a customer wishes to utilise a Titan 2300 in a fine wood or biomass application, the Dealer should contact the Powerscreen Product & Applications team to find out what Non-Standard Options may be available to assist in that application.

DUAL POWER

2 of electric motors: 75 kW (100hp) & 50 kW (73hp)

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.





TITAN 2300



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**



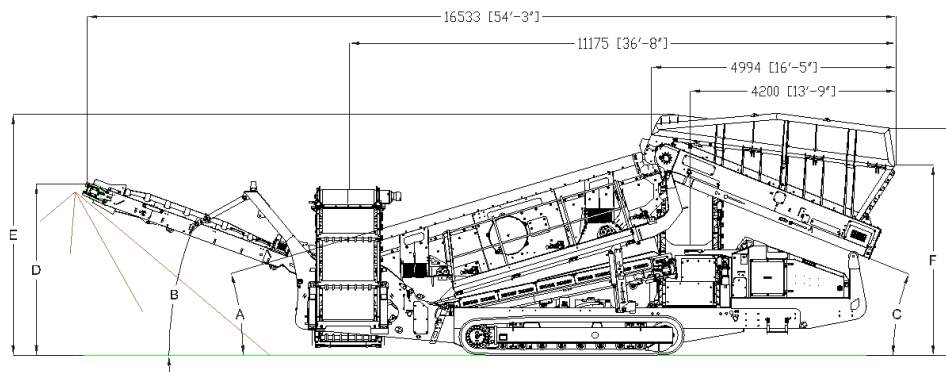


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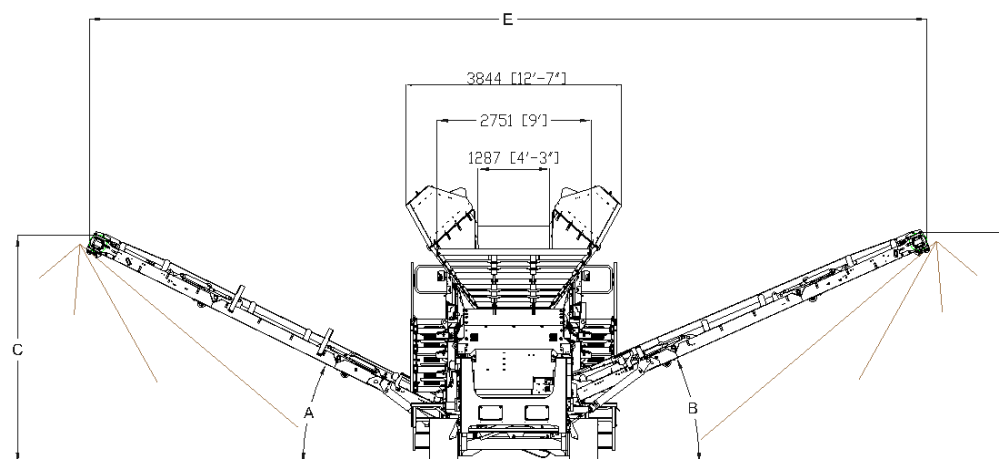


DIMENSIONS

Figure 1: Titan 2300
Working Position



DIMENSION	MAX	MIN
A	17°	13°
B	24°	18°
C	22°	18°
D	3852mm(12'8")	3320mm(10'11")
E	4936mm(16'2")	4626mm(15'2")
F	3893mm(12'9")	3865mm(12'8")
G	4467mm(14'8")	4458mm(14'7")



DIMENSION	MAX	MIN
A	26°	20°
B	24°	20°
C	4101mm(13'6")	3405mm(11'2")
D	4101mm(13'6")	3672mm(12'1")
E	15361mm(50'5")	15014mm(49'3")

MORE DIMENSIONS OVERLEAF

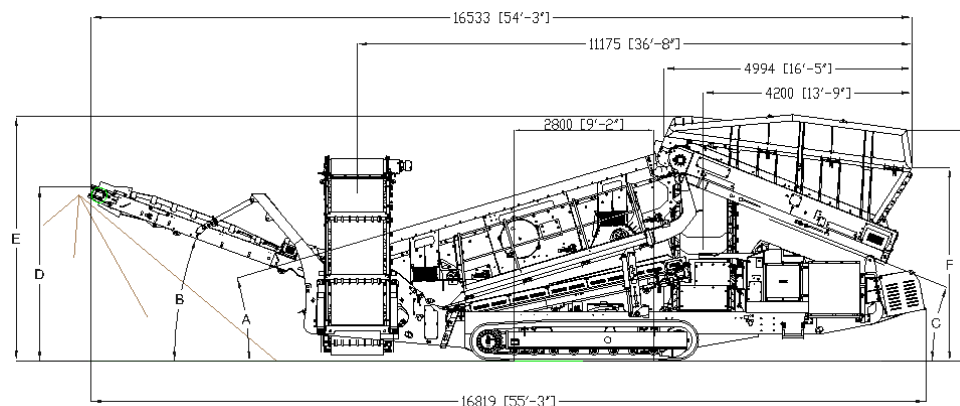


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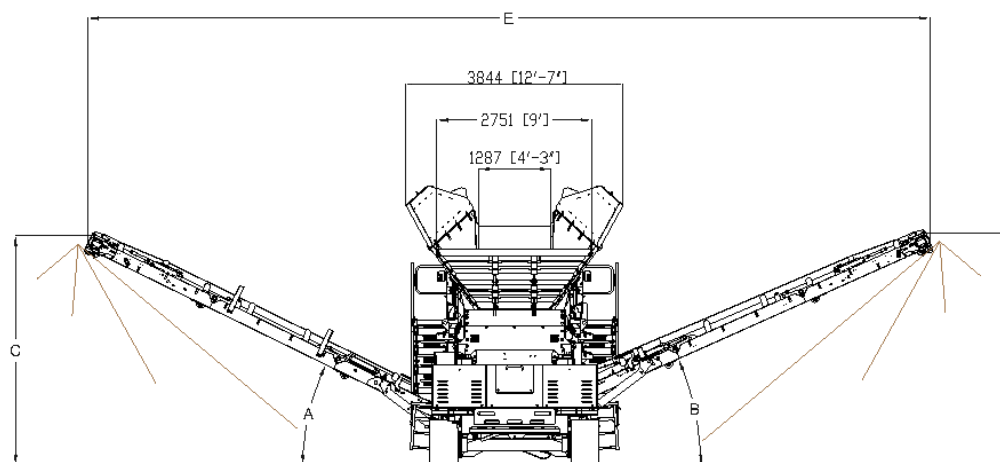


DIMENSIONS

Figure 2: Titan 2300
Working Position Dual Power



DIMENSION	MAX	MIN
A	17°	13°
B	24°	18°
C	22°	18°
D	3852mm(12'8")	3320mm(10'11")
E	4936mm(16'2")	4626mm(15'2")
F	3893mm(12'9")	3865mm(12'8")
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DIMENSION	MAX	MIN
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MORE DIMENSIONS OVERLEAF

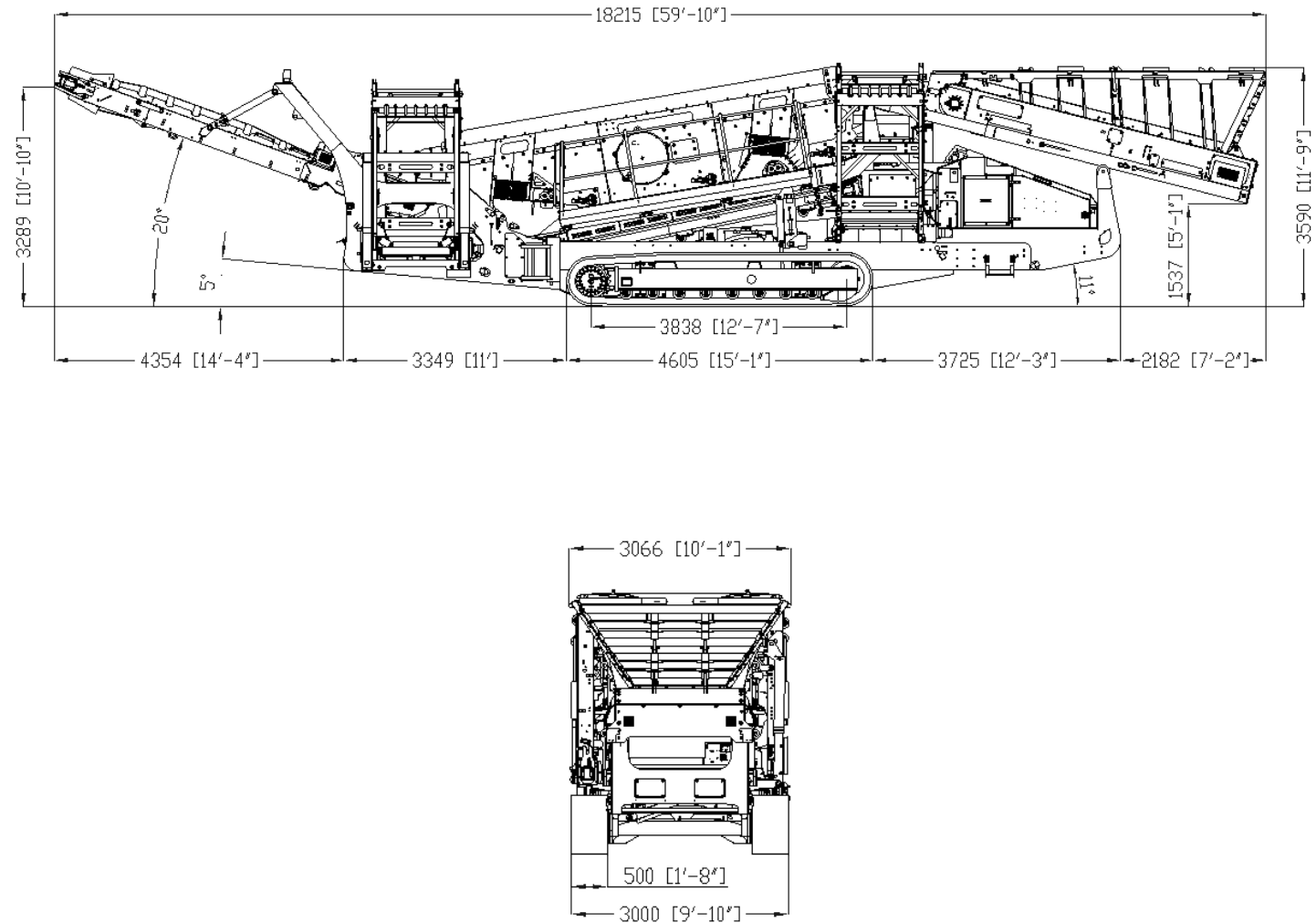


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DIMENSIONS

Figure 3: Titan 2300
Transport Position



MORE DIMENSIONS OVERLEAF

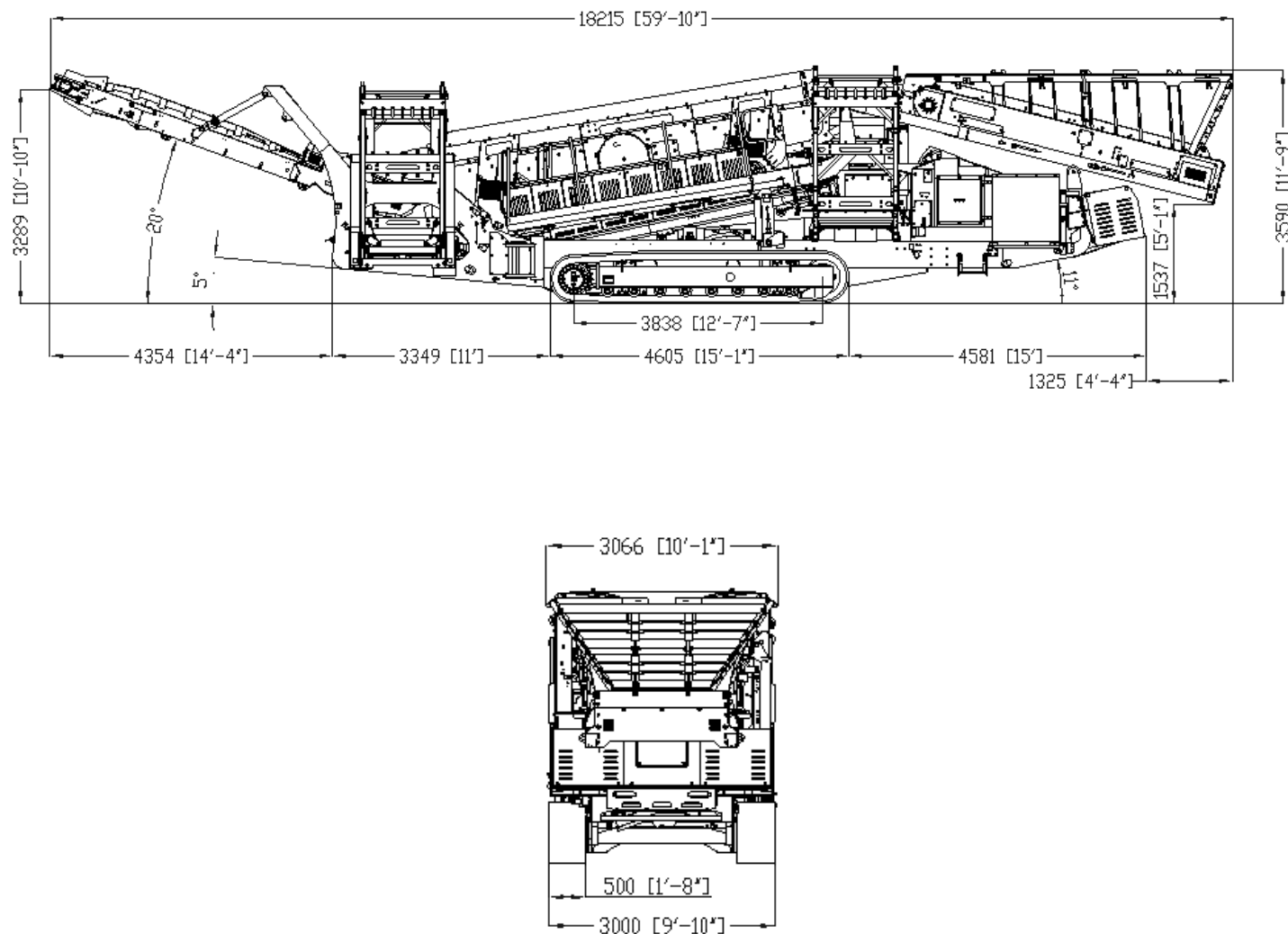


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DIMENSIONS

Figure 4: Titan 2300
Transport Position Dual Power





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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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

