

Powerscreen® Warrior 2100

2 Deck Heavy Duty Incline Screen

Specification Rev 5. 01/01/2017



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OF POWER 2016



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Specification

		Three Way Split	Two Way Split
Total weight		Est 34,800kg (76,720lbs)	33,400kg (73,634)
Transport	Length	16.02m (52' 7")	15.48m (50' 9")
	Width	3m (9' 10")	3m (9' 10")
	Height	3.4m (11' 2")	3.4m (11' 2")
Operation	Length	16.3m (53' 5")	15.77m (51' 9")
	Width	13.6m (44' 7")	8.58m (28' 2")
	Height	4.5m (14' 9")	4.83m (15' 10")
Screenunit		4.88m x 1.5m (16' x 5')	4.88m x 1.5m (16' x 5')
Powerunit		Diesel / Hydraulic	Diesel / Hydraulic

Features & Benefits

- High capacity up to 700 tph (772 US tph) (depending on mesh sizes & material type)
- Suitable for scalping or stockpiling as a 3 way split or 2 way split machine
- 2WS kit supplied with machine as standard
- Maximum feed size 600mm. Maximum allowable feed size may vary depending on material
- Heavy duty inclined hopper & belt feeder featuring impact bars & impact rollers
- Fixed hopper sides & twin drive belt feeder
- Jack up screen facility for access to screen media & collection conveyor
- Collection conveyor raise feature for conveyor & diesel tank access
- Heavy-duty 2 deck incline screen with aggressive triple shaft drive
- Galvanised screen walkways & access ladders as standard
- Maximum mobility with heavy duty, low ground pressure crawler tracks.
- Quick set up time typically under 10 minutes.
- Hydraulically folding conveyors for transport
- Two speed heavy duty crawler tracks, c/w removable pendant remote control system.
- High performance hydraulic system
- Dual power optional

Application

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

Target area: 4.7m (15' 6") long x 2.6m (8' 6") wide

Hopper capacity: 7.0m³ (9.2 cu. yd.)

Fixed heavy duty hopper sides, manufactured from wear resistant steel with optimised reinforcement

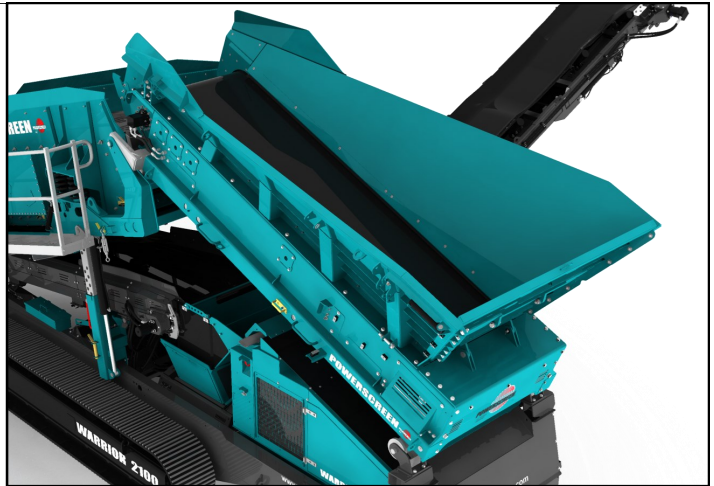
Rear wall collapsible for direct feeding

Hydraulic slide & raise facilities for transport

Feed in height: (Side) 3.9m (12' 9")

Feed in height: (Rear) 3.6m (11' 10")

Feed in height: (Collapsed Hopper) 3.1m (10' 2")



Heavy Duty Feed Conveyor

Heavy duty impact bars & impact rollers supporting belt

1300mm (51") 4 ply Heavy Duty Grade belt

Heavy duty drive featuring twin gearbox drive

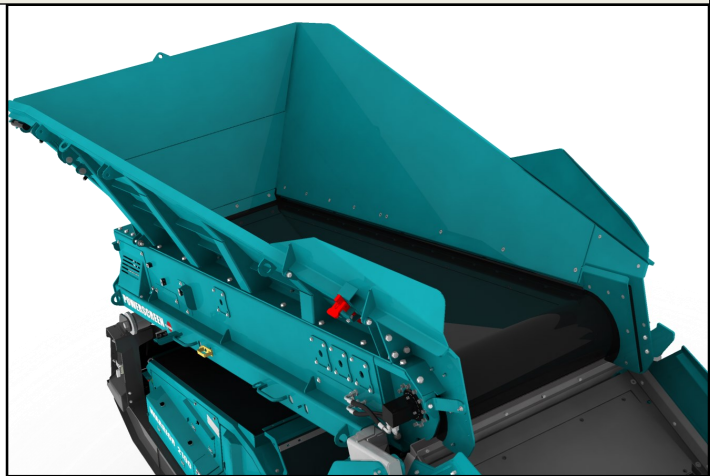
Driving speed; (17rpm, 20m/min)

Variable speed control

4.04m (13' 3") drum centres

Easy clean system under feeder

Supergrip drive drum as standard



Screenbox

Heavy Duty 4.88m x 1.55m (16' x 5') 2 deck incline screen with aggressive triple shaft drive mechanism featuring adjustable speed & stroke angle

Adjustable Oval stroke: 13mm-16mm (13/25" - 5/8")

Oval stroke angle adjustable from 30° - 60°

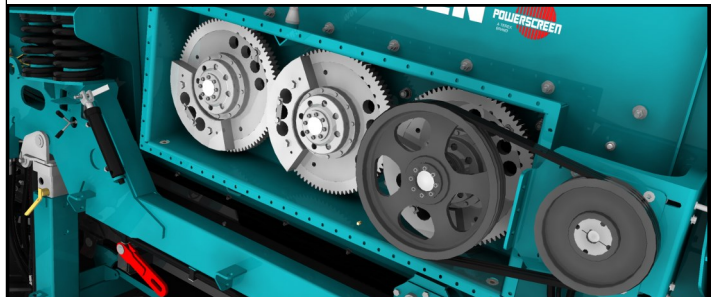
Jack up screen facility for access to screen media

Hi-torque screen motor mounted direct to screen box

Wear plates on pipe units

Galvanised maintenance platforms on both sides of screen

Screen suitable for bofor, finger, punch plate and mesh screening media



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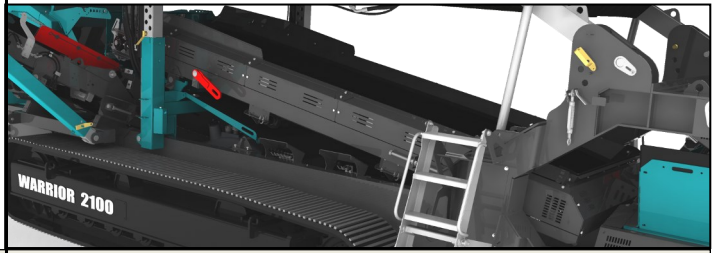
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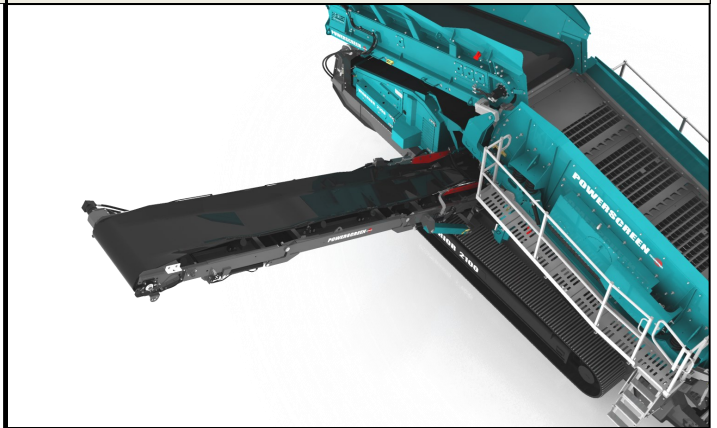
Underscreen Conveyor

1300mm (51") wide 3 ply plain belt
4.6m (15' 1") drum centres
Accessible via jack up screen facility
Underside accessible with collection conveyor raise facility



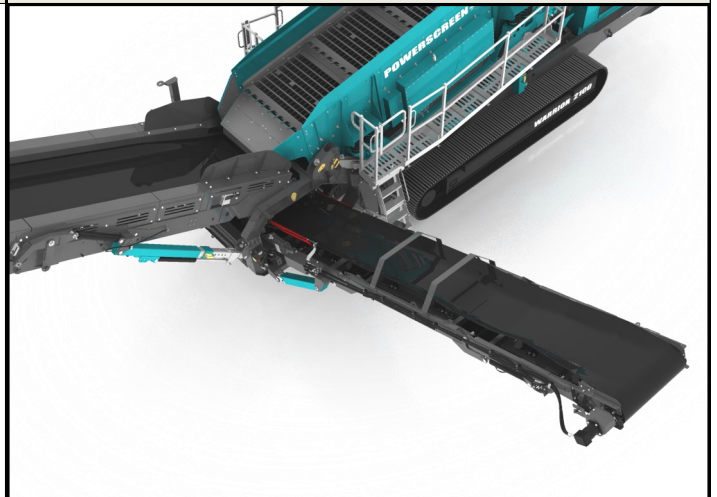
Fines - Side Conveyor

900mm (35") wide 3 ply plain belt (chevron option)
Impact bars under feedboot area
Deflector plate for optimum material travel
Variable speed control
Hydraulically folding, angle adjustable
3.93m (12' 11") stockpile height
7.8m (25' 7") drum centres



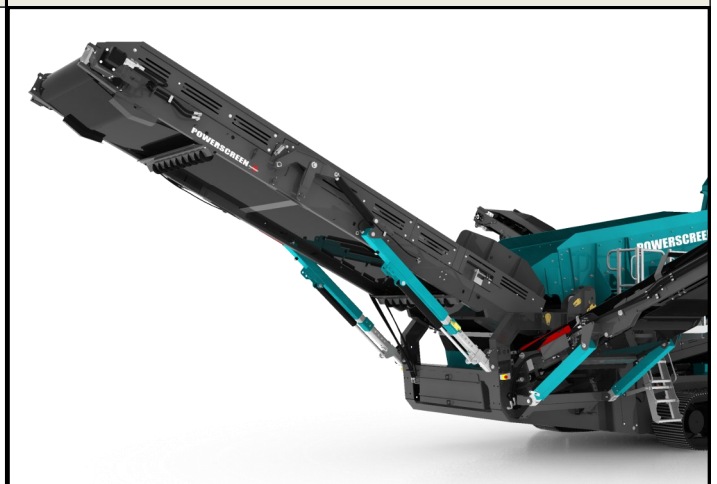
Midsize - Side Conveyor

900mm (35") wide 3 ply plain belt (chevron option)
Impact bars under feedboot area
Variable speed control
Hydraulically folding, angle adjustable
3.67m (12') stockpile height
7.8m (25' 7") drum centres
Removed during 2 way split operation



Oversize - Tail Conveyor

1400mm (55") wide troughed 3 ply chevron belt
Variable speed control
Hydraulically raise & lower facility
Impact bars along entire length
Hydraulically foldable for transport
Angle adjustable 0° - 24°
Stockpile height 3WS mode: 4.2m (13' 9")
Stockpile height 2WS mode: 3.5m (11' 7")
6.35m (20' 10") drum centres



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Power unit & Hydraulics

Engine:

Tier 3 equivalent:

Caterpillar C4.4 ATAAC - 4 cylinder diesel engine

Performance:

90kW (121hp) @ 1800rpm

Tank Capacities:

Fuel: 336 L (88 US Gal) Protected diesel tank

Hydraulic Oil: 450 L (119 US Gal)

Pumps:

Flywheel pump: Cast iron 63/63/41/41 cc/rev quad

PTO 'A' pump: Cast iron 29/29 cc/rev tandem

Motors:

Belt Feeder Motors: 125cc/rev

Tail conveyor: Twin drive cast iron 500cc/rev

Mid fines side conveyor: Cast iron 500cc/rev

Collection Conveyor Motor: Cast iron 500cc/rev

Fines Conveyor Motor: Cast iron 500cc/rev

Screen Motor: Cast iron 80cc/rev

Optional Apron Feeder Motor: 400cc/rev

Optional Diesel engine:

Tier 4f / Stage IV:

Caterpillar C4.4 -

4 cylinder diesel engine developing 93kW (125hp) @ 1800 rpm

Optional Constant Speed engine (EU Only):

Stage 3A constant speed: CAT C4.4, 4 cylinder diesel

98kW (131hp) @ 1800rpm

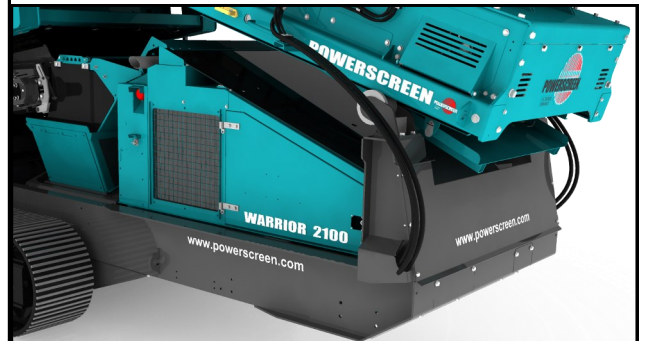
Crawler Tracks

Two Speed Tracking System

Approximate Speed (Low Speed): 0.8 Km/hr

Approximate Speed (High Speed): 1.4 Km/hr

Gradeability—Low Speed (degrees): 33.9



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Powerscreen® Warrior 2100 Options

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Incline Apron Feeder

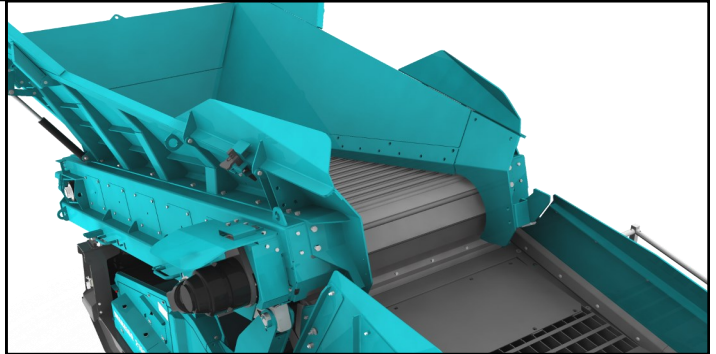
1000mm (40" Inside hopper width) wide wear resistant apron

Fitted with single gearbox drive

Variable speed control

4.00m (13' 1") apron centres

Machine Weight: 37,000kgs

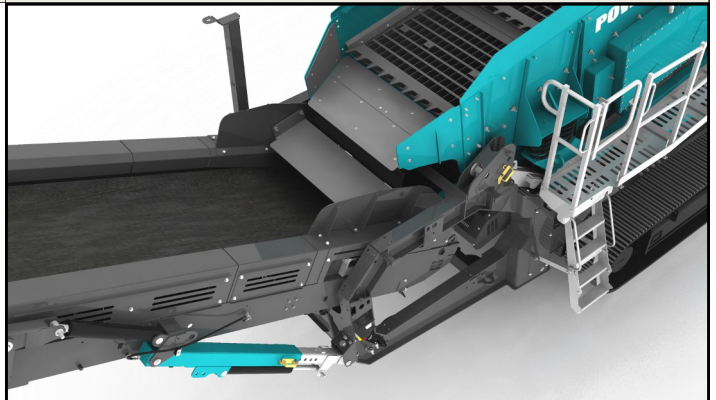


2 Way Split Configuration

Mid sized side conveyor removed

Machine built as 2 Way Split

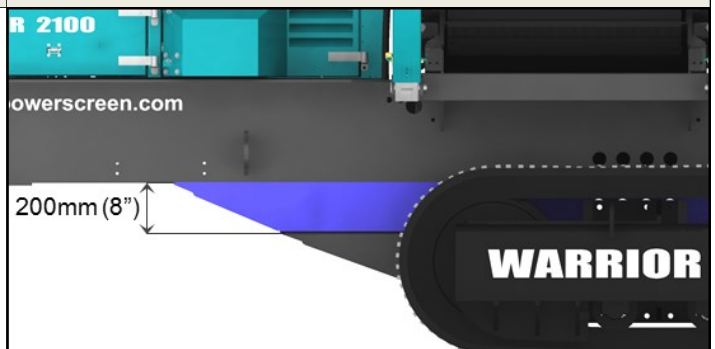
Top deck & bottom deck oversize material fed on to tail conveyor.



200mm Chassis Riser

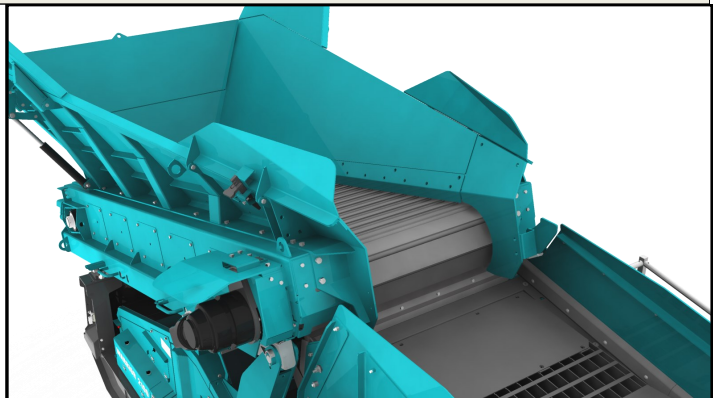
Machine chassis raised 200mm to provide improved ground clearance and additional conveyor stockpiling capacity.

Riser increases transport height, stockpile heights & feed in heights by 200mm



Hydraulic Fold & Lock Extensions

Fully hydraulic folding and locking from ground level, the hopper extensions offer a target width of 3.49m to suit feeding with a wheel loader from the rear of the machine.



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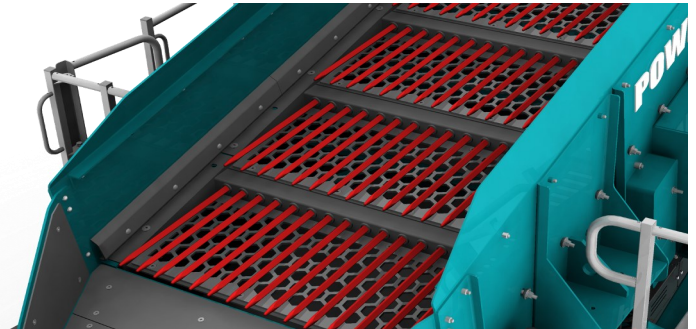
Powerscreen® Warrior 2100 Options

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Finger/Punch Plate Combination Deck

Designed for overburden, dirty blasts & difficult recycling applications, this deck has the dual benefit of fingers to break up material, and punchplate to deliver a controlled material size onto the bottom deck.

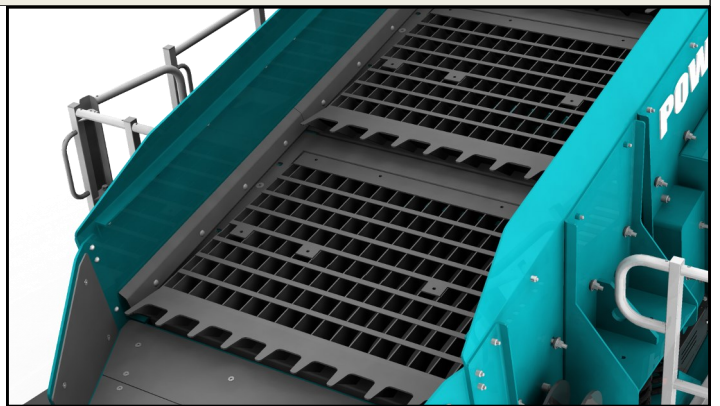
Max Feed Size = 400mm



3D Punchplate

For use in waste recycling, compost & wood type applications, the 3D punchplate separates effectively and minimizes harmful material build-up.

Max Feed Size = 400mm



Dual Power

Electric motors; 37kW (x2)

Diesel engine

Integrated control system managing diesel-hydraulic or electrical-hydraulic functions.

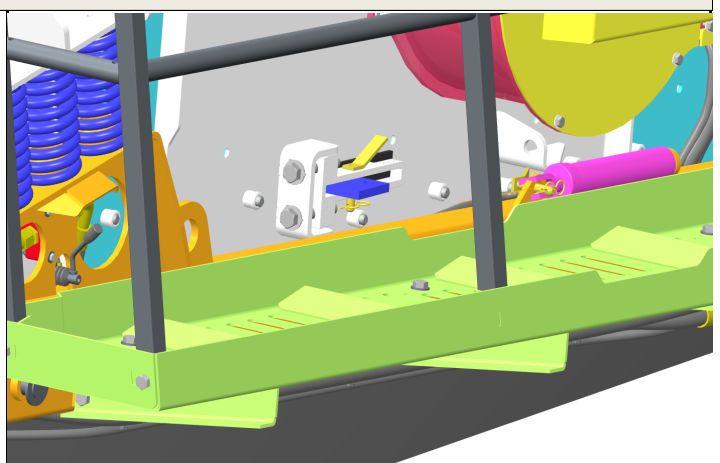
Note: This option may alter transport dimensions and feed access. For further details please contact engi-



neering for detailed drawings and dimensions.

Hydraulic Screen Tensioning (Option)

Bottom Deck Hydraulic Screen Tensioning Option available via the addition of a hydraulic tension ram and tension valve.



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Options

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Other Options

Different coloured machine
Side conveyor telescopic hydraulic extensions (1.2m)
Chevron side conveyor belts
Optional engine
Auto lubrication system
Radio controlled tracking
Quick release wedge screen tensioning
Screen blanket
Hydraulically Tensioned bottom deck
Powerscreen Pulse

Other Media Options

Top Deck

Grizzly / Bofar Deck: Max Feed Size = 600mm
Finger Screens: Max Feed Size = 400mm
Punch Plate: Max Feed Size: 600mm
Screen Mesh: Max Feed Size: 600mm

Bottom Deck

Finger Screens
Punch Plate: Mild Steel or Wear Resistant Steel
Screen Mesh: Standard, Heavy Duty or Welded

Powerscreen Pulse

Powerscreen Pulse is a system which allows the machine to relay data via phone networks, or by satellite when there's no cellular signal, to any device with a web browser, such as a PC, tablet or Smartphone.



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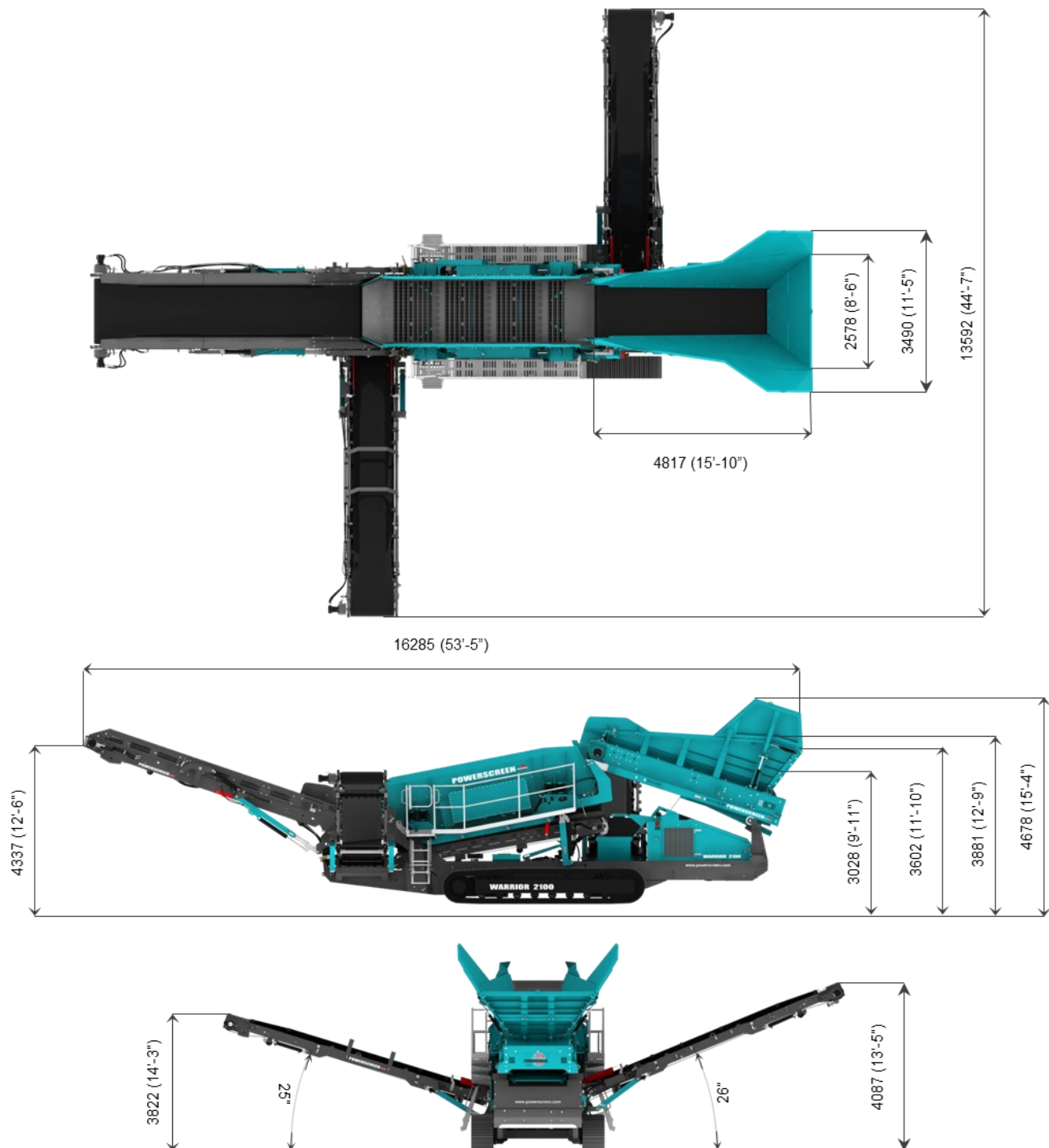


Figure 1: Warrior 2100 2 Deck Track

3 Way Split

Working Position

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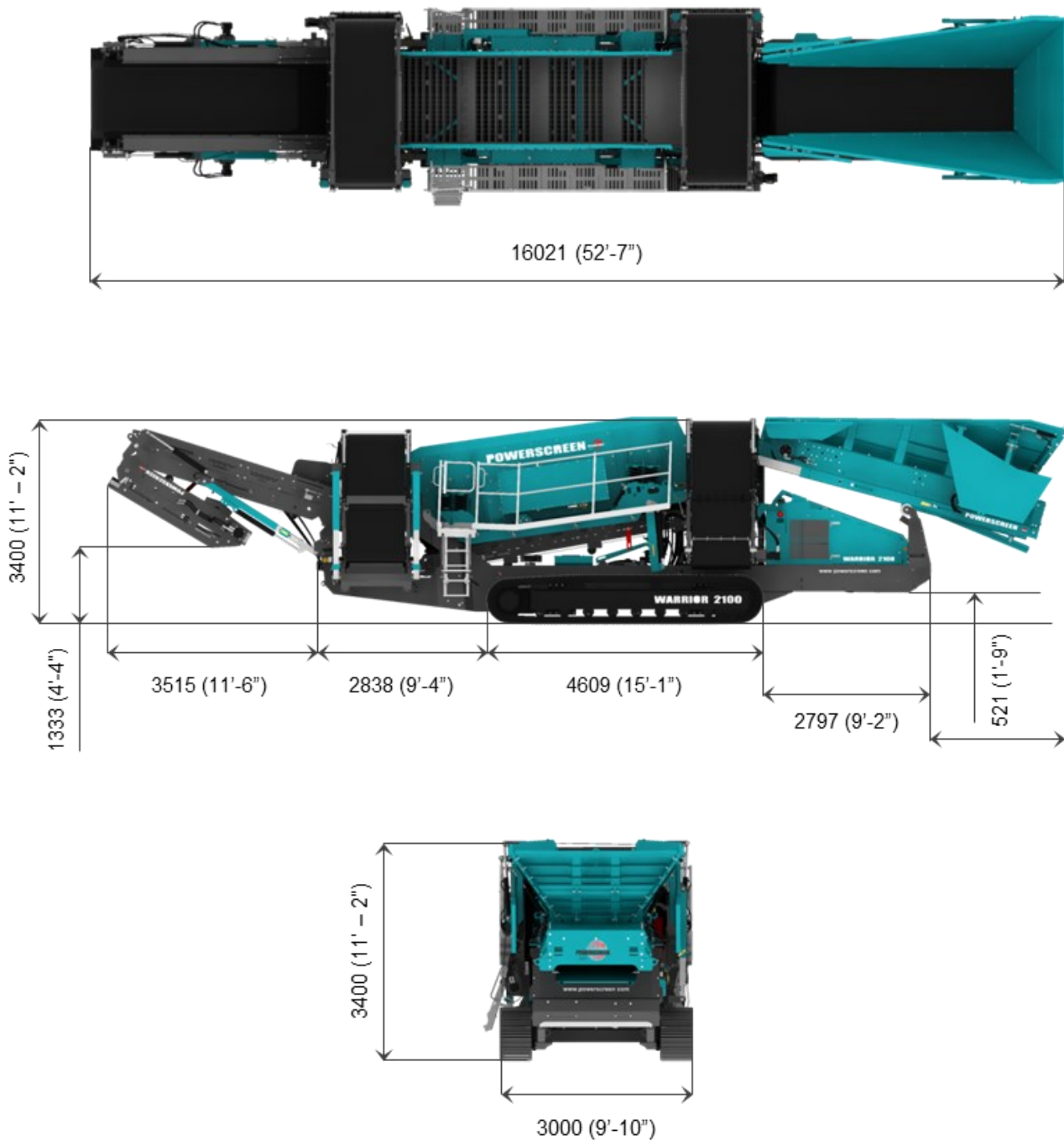


Figure 2: Warrior 2100

3 Way Split

Transport Position

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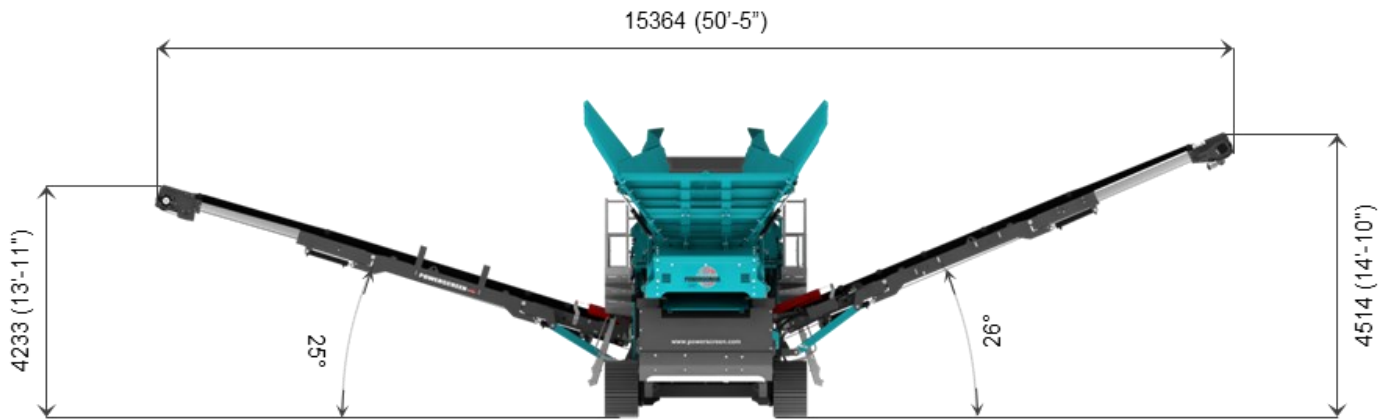


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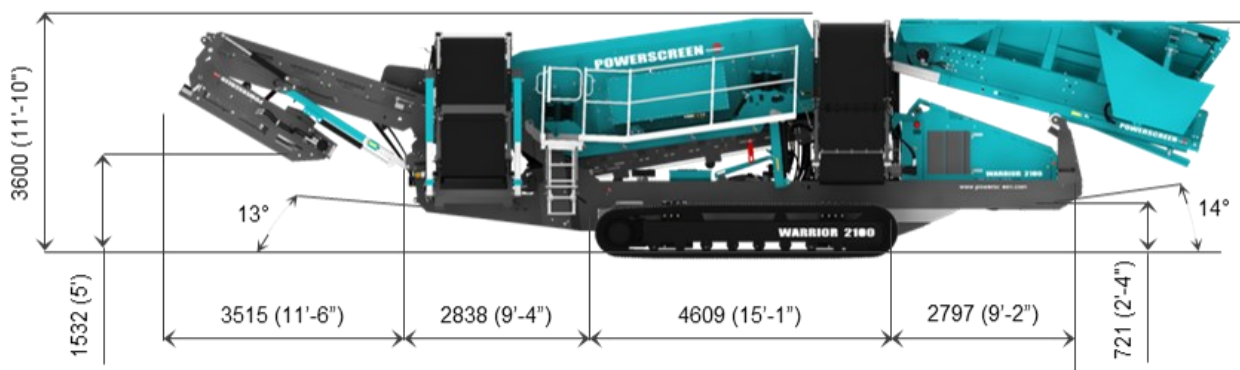


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**Figure 5: Warrior 2100
Telescopic Side Conveyors**



**Figure 6: Warrior 2100
Chassis riser Option
3 Way Split
Transport Position**

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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.

Every endeavour will be made to supply equipment as specified, but we reserve the right, where necessary, to amend the specifications without prior notice as we operate a policy of continual product development. 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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