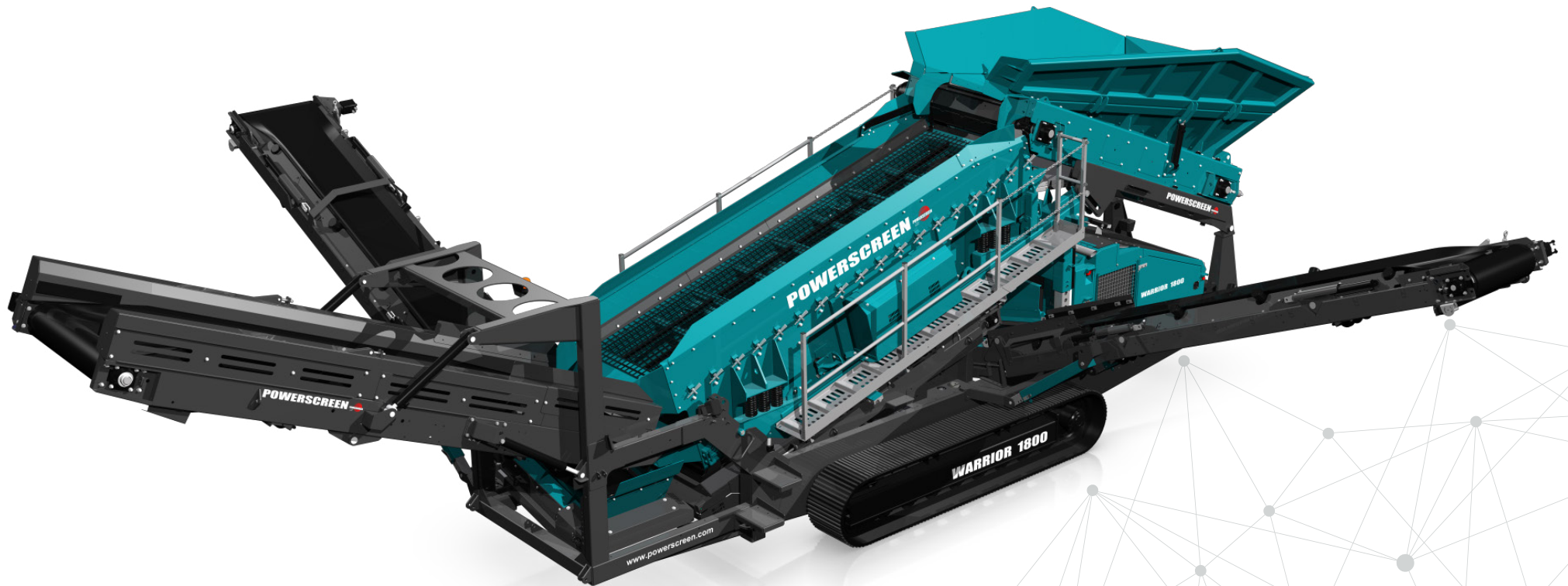


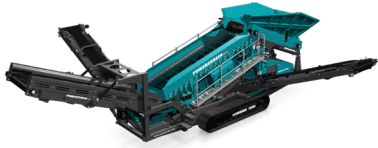
# POWERSCREEN® WARRIOR 1800

2 DECK HEAVY DUTY INCLINE SCREEN



TECHNICAL SPECIFICATION - REV 13. 01/01/2019





## WARRIOR 1800



# OVERVIEW

## SPECIFICATION

|                     |                                |                      |
|---------------------|--------------------------------|----------------------|
| <b>Total weight</b> | <b>Incline Belt</b>            | 29,000kg (63,934lbs) |
|                     | <b>Incline Apron</b>           | 31,500kg (69,446lbs) |
| <b>Transport</b>    | <b>Length</b>                  | 15.38m (50' 6")      |
|                     | <b>Width</b>                   | 2.96m (9' 9")        |
|                     | <b>Height</b>                  | 3.39m (11' 2")       |
| <b>Working</b>      | <b>Length</b>                  | 14.26m (46' 10")     |
|                     | <b>Width</b>                   | 12.6m (41' 4")       |
|                     | <b>Height</b>                  | 4.55m (14' 11")      |
| <b>Screenbox</b>    | 4.88m x 1.5m (16' x 5')        |                      |
| <b>Powerunit</b>    | Diesel / Hydraulic             |                      |
| <b>Plant Colour</b> | RAL 5021 , RAL 7024 & RAL 9005 |                      |

(Weights & dimensions are approximate base unit values)

## FEATURES & BENEFITS

- High capacity up to 600 tph / 661 US tph (depending on media sizes & material type)
- Maximum feed size 600mm (2') . Maximum allowable feed size may vary depending on material type and screenbox media
- Suitable for scalping or stockpiling as a 3 way split or 2 way split machine
- Heavy duty inclined hopper & belt feeder featuring impact bars & impact rollers
- Hydraulic folding hopper sides & twin drive belt feeder
- Jack up screen facility for access to screen media & collection conveyor
- Unique hydraulic slide out facility on tail conveyor to aid screen media removal
- Heavy duty aggressive 2 bearing screenbox with 10mm stroke (optional 12mm stroke)
- Maximum mobility with heavy duty, low ground pressure tracks complete with removable pendant remote control system
- Quick set up time typically under 15 minutes
- Hydraulically folding conveyors for transport
- High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler

## APPLICATIONS



### Aggregate

Sand & gravel  
Blasted rock  
River rock



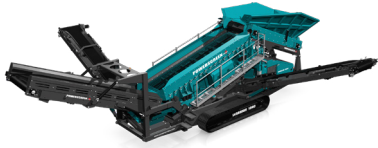
### Recycling

Top soil  
C&D waste  
Composted materials  
Wood by-products  
Overburden  
Foundry waste



### Mining

Processed ores  
Processed minerals



## WARRIOR 1800



## HOPPER

**Target area:** 4.4m (14' 5") long x 2.7m (8' 10") wide

**Hopper capacity:** 6.8m<sup>3</sup> (8.9 cu. yd.)

**Feed in height with extensions (side):** 4.23m (13' 11")

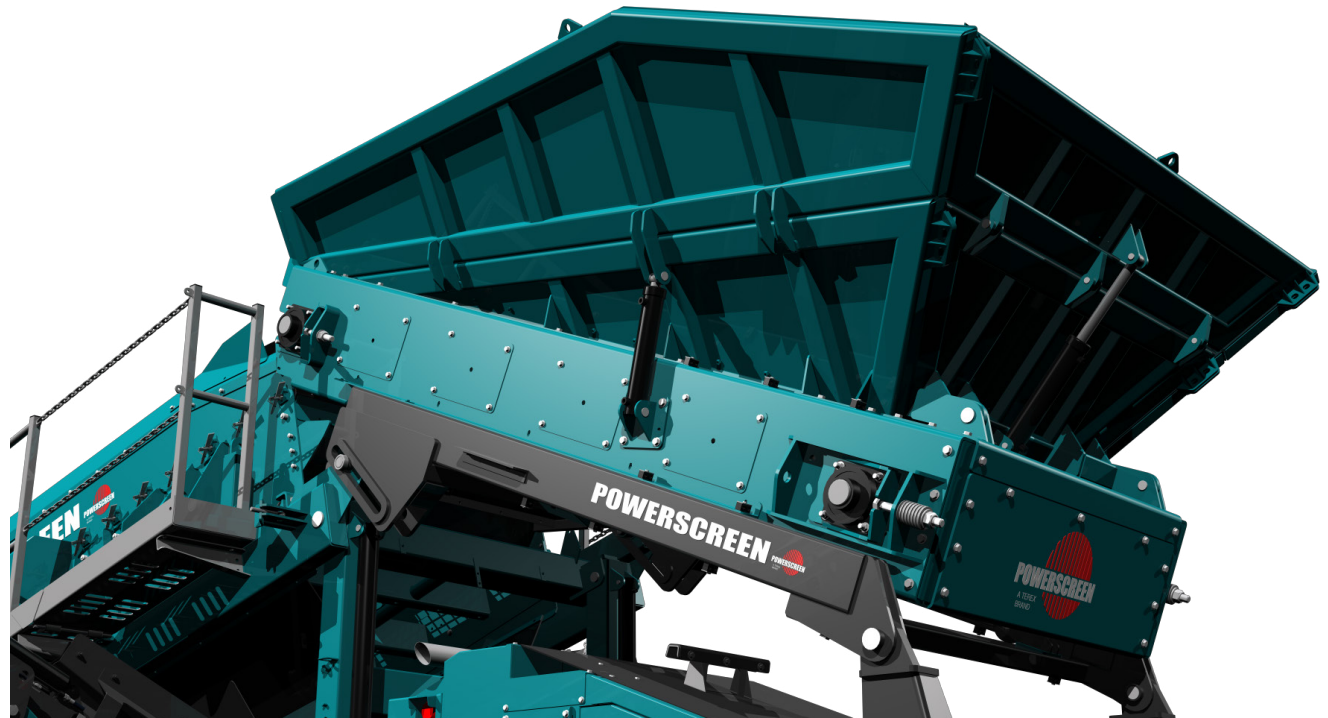
**Feed in height with extensions (rear):** 3.63m (11' 11")

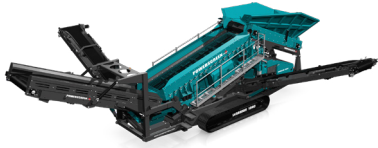
**Feed in height (side & rear with collapsed hopper):** 3.20m (10' 6")

Hydraulic folding hopper sides, manufactured from wear resistant steel

Rear wall collapsible for direct feeding

Hydraulic slide & raise facilities for transport





## WARRIOR 1800



## SCREENBOX

Heavy duty 4.87m x 1.53m (16' x 5') 2 deck, 2 bearing incline screen with highly aggressive screen drive

Self adjusting belt driven screen drive, increased flexibility over direct drive alternatives, adjustable stroke: 10mm (3/8") as standard

Top deck: 4.87m x 1.53m (16' x 5')

Bottom deck: 4.62m x 1.53m (15' 2" x 5')

Side tensioned or modular top deck

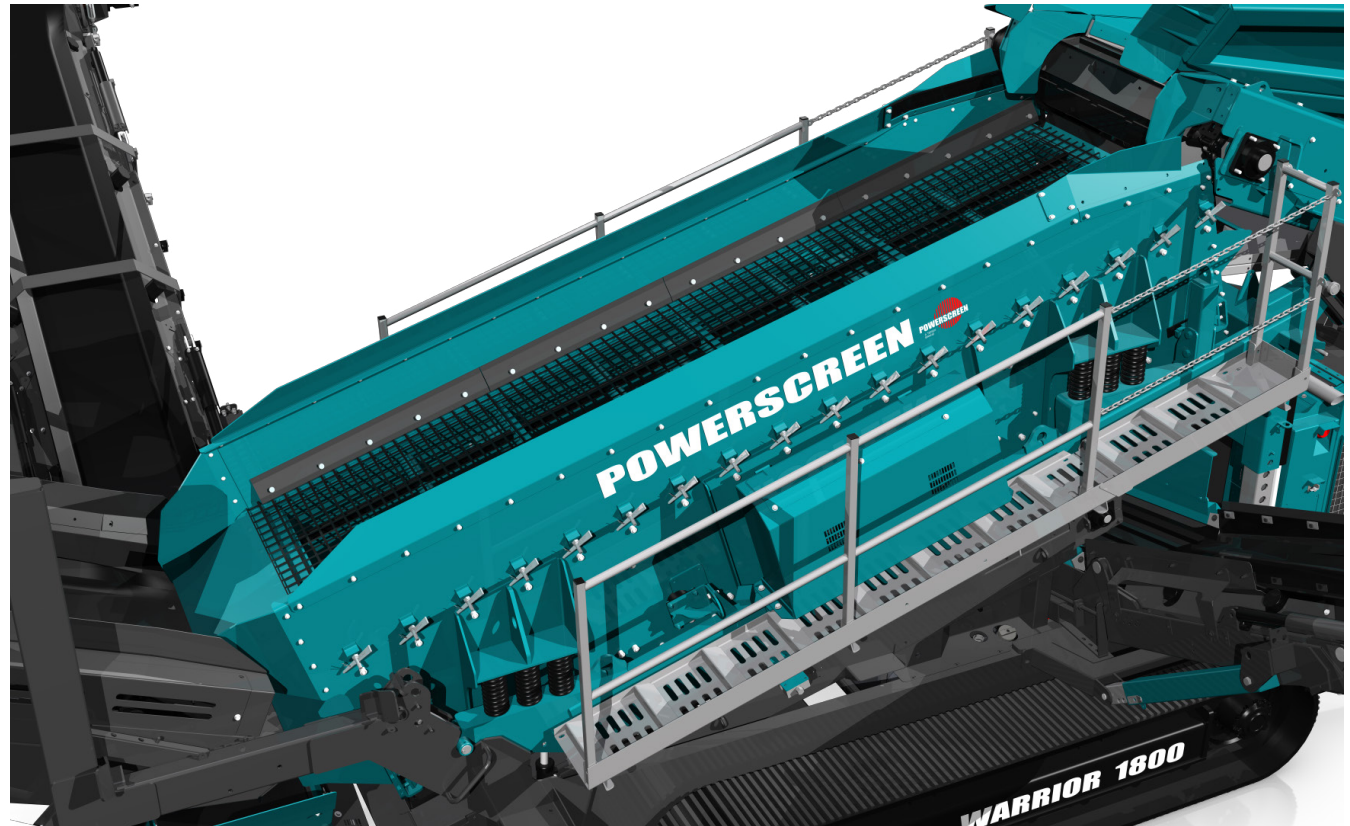
End tensioned or modular bottom deck

Hydraulic screen angle adjustment 14° - 18°

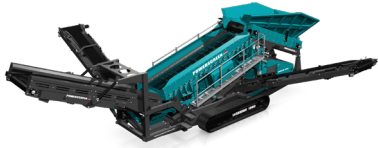
Jack-up screen facility for access to screen media

Galvanised maintenance platforms on both sides of screen

Modular screen suitable for bofor, finger, punch plate and mesh screen media







## WARRIOR 1800



# ↓ CONVEYORS

### HEAVY DUTY BELT FEEDER

1300mm (4' 3") 4 ply heavy duty grade belt

3.43m (11' 3") drum centres

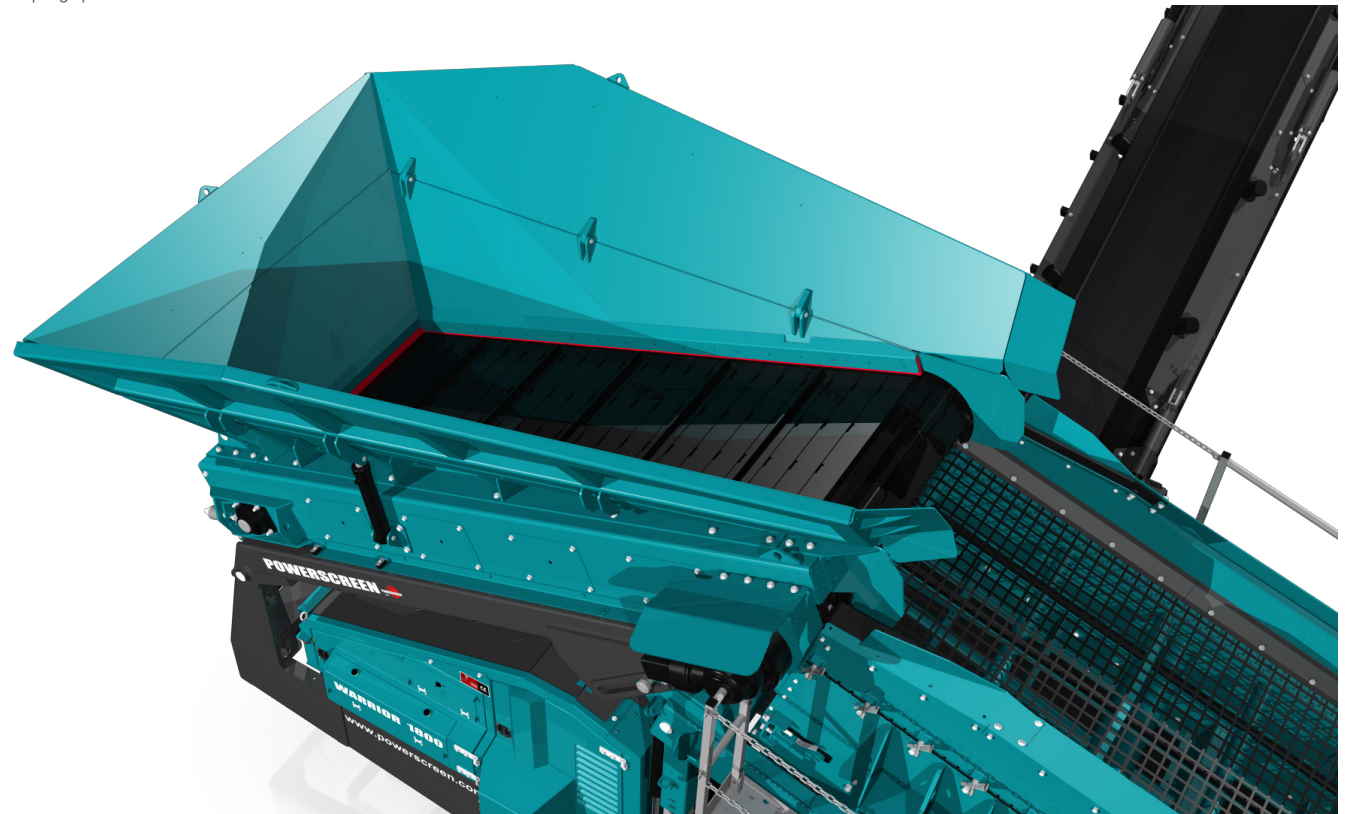
Driving speed: 15rpm

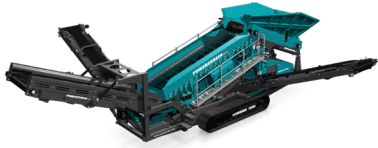
Heavy duty impact bars & impact rollers

Heavy duty drive featuring twin gearbox drive

Variable speed control

Supergrip drive drum as standard





## WARRIOR 1800



# **CONVEYORS**

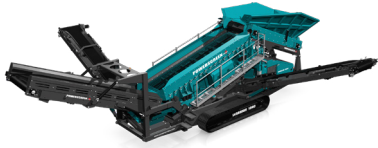
### UNDERSCREEN CONVEYOR

1200mm (3' 11") wide 3 ply plain belt  
3.97m (13') drum centres  
Accessible via jack-up screen facility

### OVERSIZE - TAIL CONVEYOR

1400mm (4' 7") wide 4 ply chevron belt  
5.15m (16' 11") drum centres  
3.73 m (12' 3") stockpile height  
77m<sup>3</sup> (101 cu. yd.) stockpile capacity  
Hydraulic raise & lower  
Impact bar/ roller combination  
Hydraulic slide out facility to aid screen access  
Angle adjustable 10° - 24°  
Variable speed control





## WARRIOR 1800



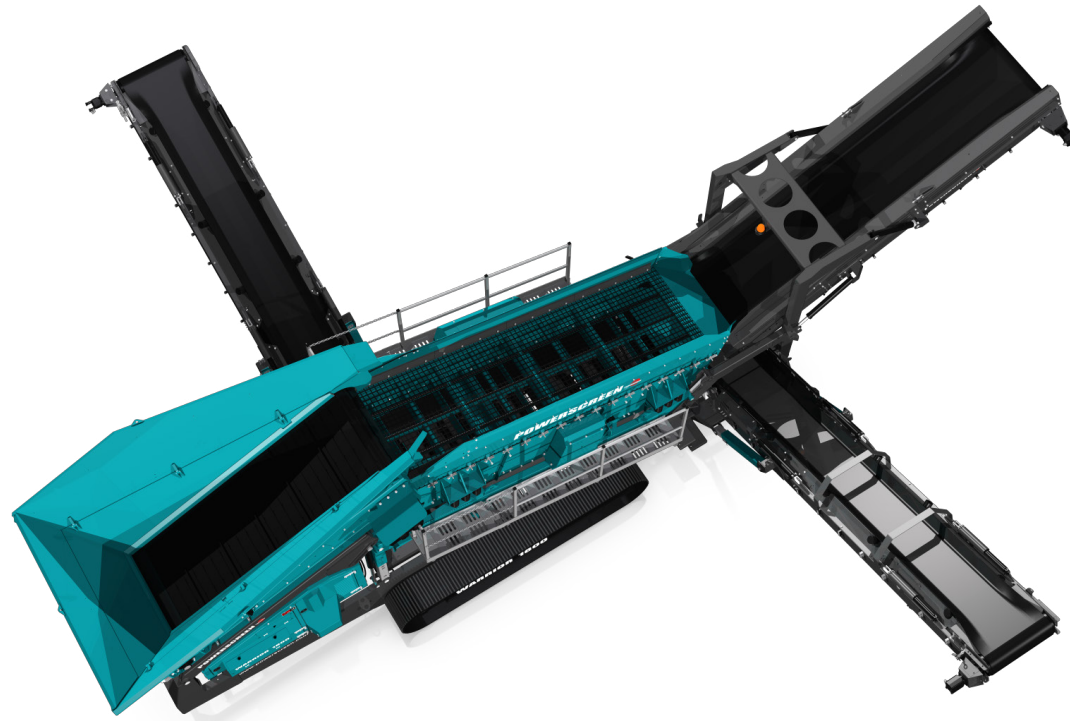
# CONVEYORS

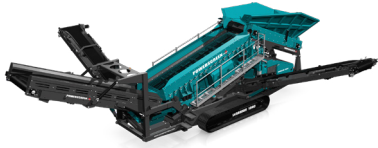
### FINESIZE - SIDE CONVEYOR

900mm (2' 11") wide 3 ply plain belt  
 7.07m (23' 2") drum centres  
 3.69m (12' 1") stockpile height  
 75m³ (98 cu. yd.) stockpile capacity  
 4.49m (14' 9") stockpile height (extended)  
 135m³ (176 cu. yd.) stockpile capacity (extended)  
 Impact bars under feedboot area  
 Variable speed control  
 Hydraulically folding, angle adjustable 14° - 25°  
 Operates on separate hydraulic circuit

### MIDSIZE - SIDE CONVEYOR

900mm (2' 11") wide 3 ply plain belt  
 7.07m (23' 2") drum centres  
 3.43m (11' 3") stockpile height  
 60m³ (79 cu. yd.) stockpile capacity  
 4.23m (13' 11") stockpile height (extended)  
 113m³ (147 cu. yd.) stockpile capacity (extended)  
 Impact bars under feedboot area  
 Variable speed control  
 Hydraulically folding, angle adjustable 14° - 25°  
 Removed during 2 way split operation





## WARRIOR 1800



# POWER UNIT & HYDRAULICS

### Engine Tier 3 Equivalent:

Caterpillar C4.4 ATAAC

### Performance:

83 kW (111hp) @ 2200rpm

### Engine Tier 4F / Stage IV:

Caterpillar C4.4

### Performance:

82 kW (110hp) @ 2200rpm

### Constant Speed Engine / Stage IIIA (EU Only):

CAT C4.4

### Performance:

98 kW (131hp) @ 1800rpm

### Tank Capacities:

Fuel: 336 L (89 US Gal)

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

Hydraulic Oil (Tier 4): 450 L (119 US Gal)

### Pumps:

Flywheel:

Cast iron quad 46/46/33/33cc/rev

PTO 'A':

Cast iron tandem 23/23cc/rev

### Motors:

Belt feeder:

Cast Iron 125cc/rev

Tail conveyor:

Cast iron 800cc/rev

Mid fines side conveyor:

Cast iron 500cc/rev

Underscreen conveyor:

Cast iron 500cc/rev

Fines conveyor:

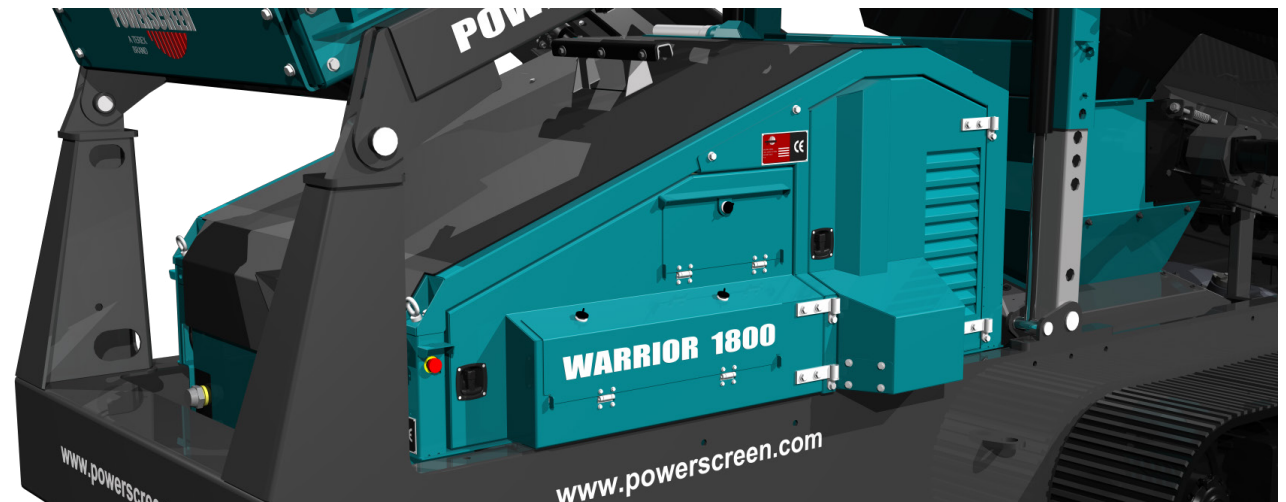
Cast iron 500cc/rev

Screen:

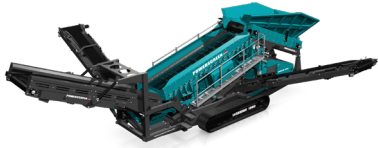
Cast iron 101.1

Optional apron feeder:

400cc/rev







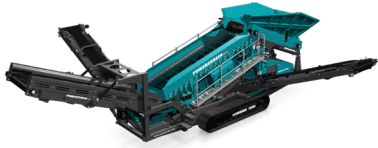
## WARRIOR 1800



## TRACKS

|                       |                 |
|-----------------------|-----------------|
| Track width:          | 500mm (1' 8")   |
| Sprocket centres:     | 3237mm (10' 7") |
| Approximate speed:    | 1 kph (0.62mph) |
| Total flow per track: | 101 Lpm         |
| Gradability:          | 28.1°           |





## WARRIOR 1800



## OPTIONS

### INCLINE APRON FEEDER

1200mm (3' 11") wide wear resistant feed apron

3.39m (11' 1") apron centres

Fitted with single gearbox drive

Variable speed control

Additional weight : +2,500kg (5,512lbs)

### DUAL POWER

2 of electric motors: 37 kW (50hp) & 37 kW (50hp)

Diesel engine

Integrated control system

This controls either diesel-hydraulic or electric-hydraulic functions

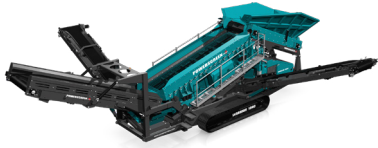
Note: This option may alter transport dimensions and feed access. For further details please contact engineering for detailed drawings and dimensions.

### 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



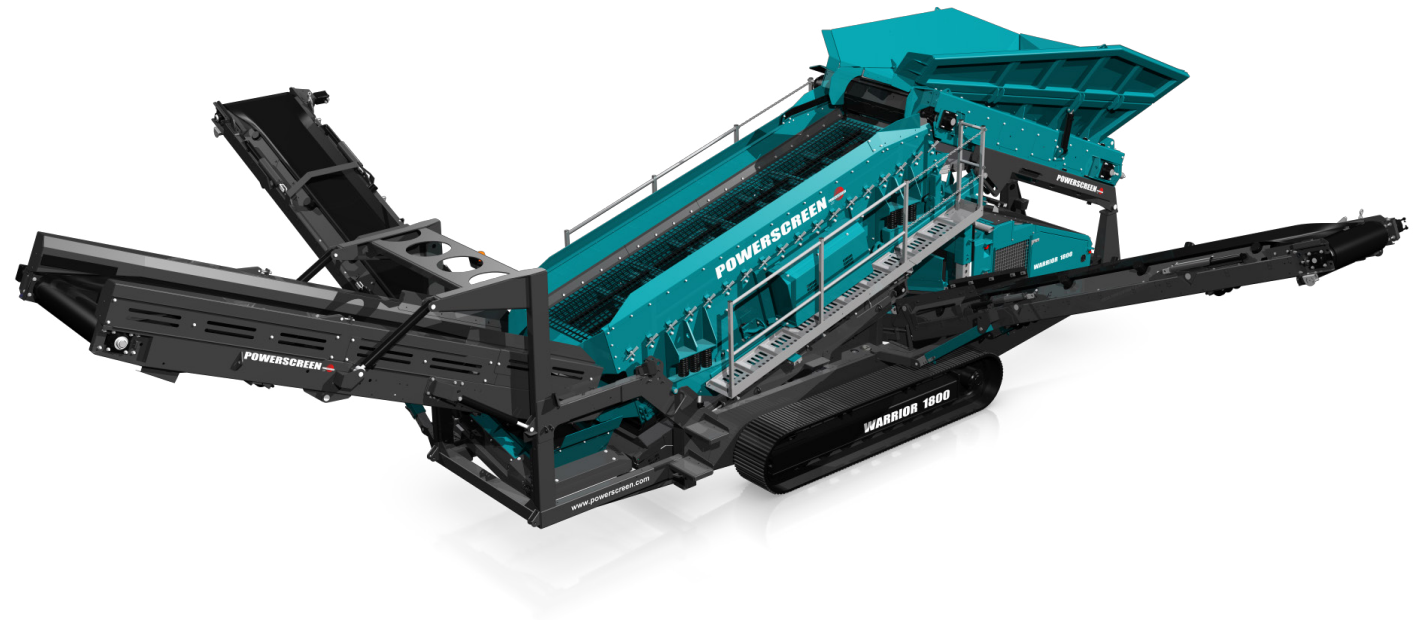
## WARRIOR 1800



## OPTIONS

### OTHER OPTIONS

- Custom colour machine
- Side conveyor telescopic hydraulic extensions
- Chevron side conveyor belts
- Auto lubrication system
- Radio controlled tracking
- Dust suppression
- Quick release wedge tensioning (side tensioned only)
- Powerscreen Pulse





## WARRIOR 1800



# 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**

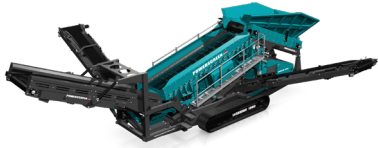
  
**FLEET  
OVERVIEW**

  
**WEEKLY REPORT  
DIRECT TO YOUR  
INBOX**

  
**GPS: MACHINE  
TRACKING**

  
**REPORTING  
UTILISATION, PERFORMANCE  
& PART SPECIFIC**



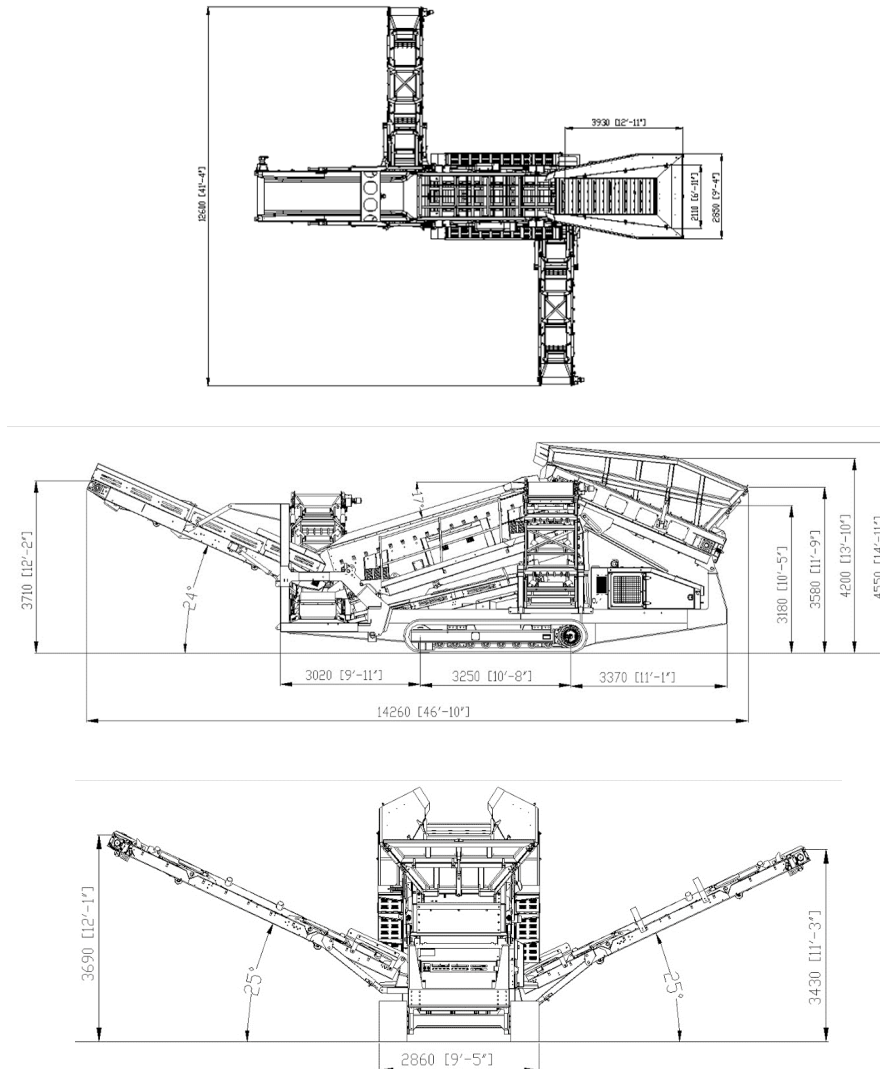


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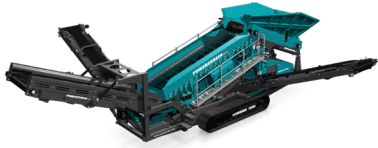


# DIMENSIONS

Figure 1: Warrior 1800  
Working Position



MORE DIMENSIONS OVERLEAF

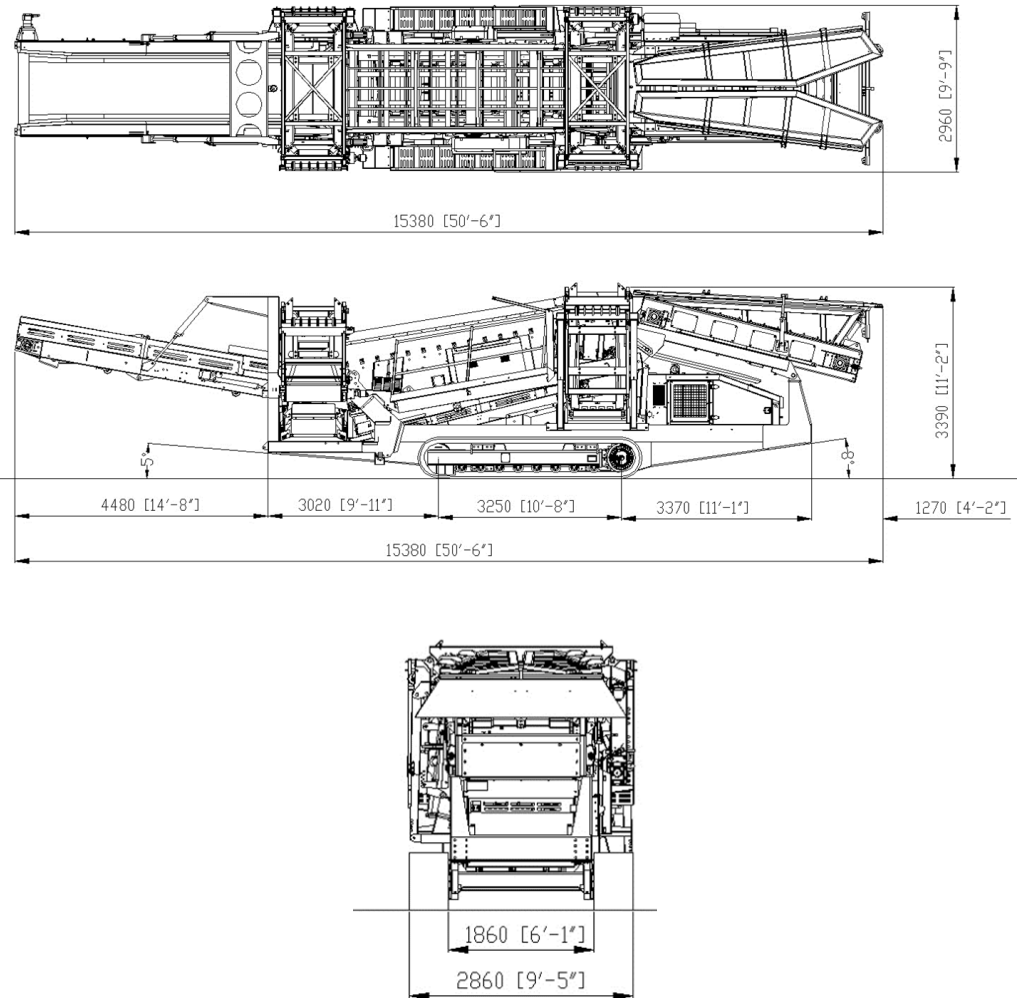


## WARRIOR 1800

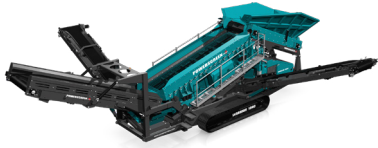


# DIMENSIONS

Figure 2: Warrior 1800  
Transport Position



MORE DIMENSIONS OVERLEAF

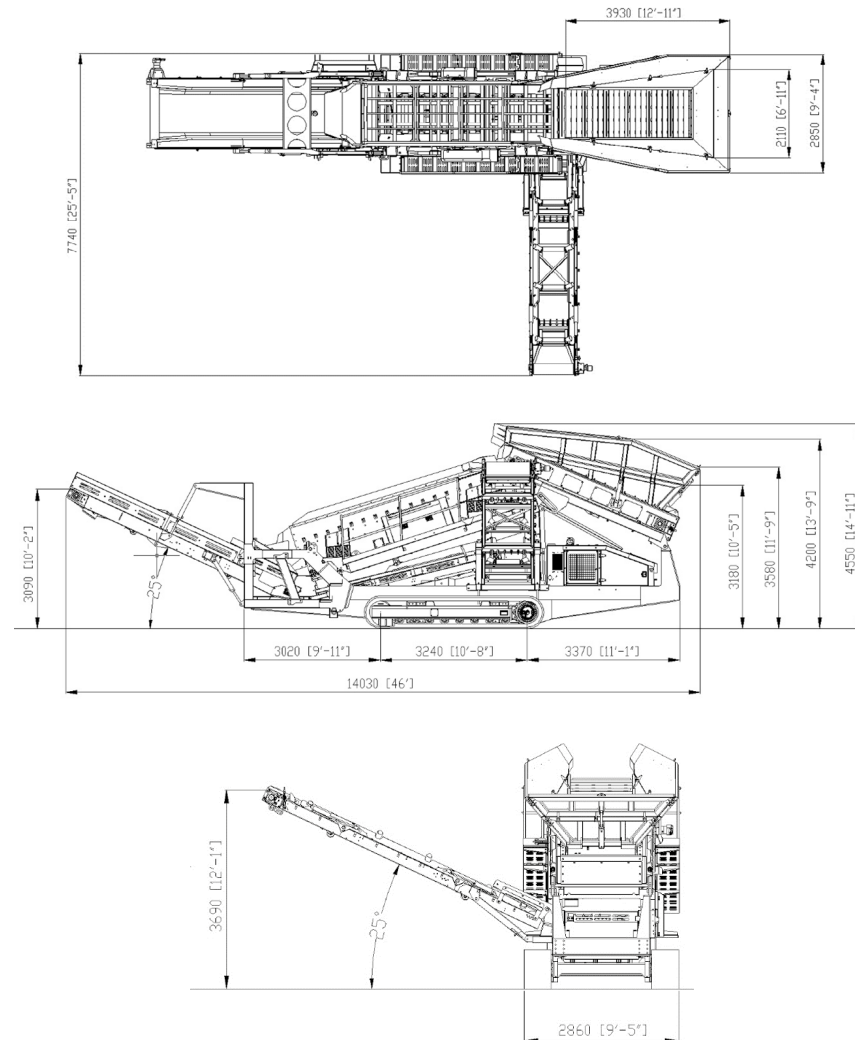


## WARRIOR 1800

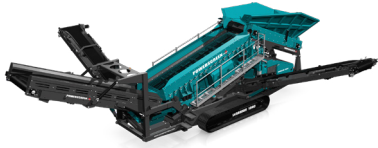


# DIMENSIONS

Figure 3: Warrior 1800  
2 Way Split  
Working Position



MORE DIMENSIONS OVERLEAF

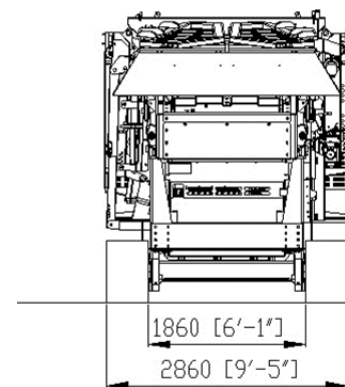
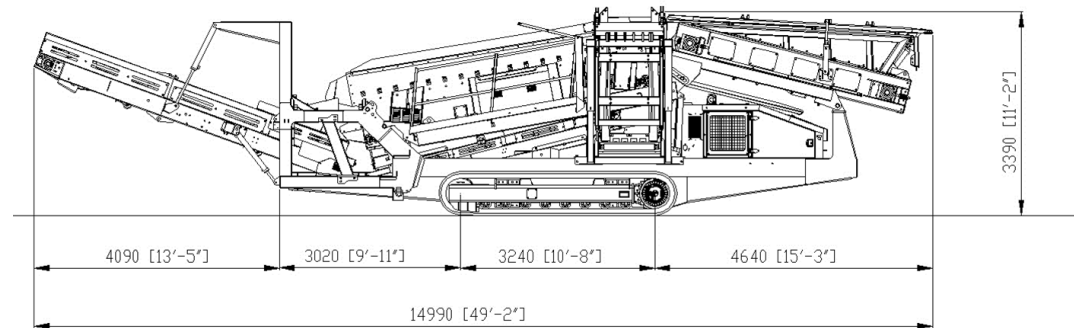
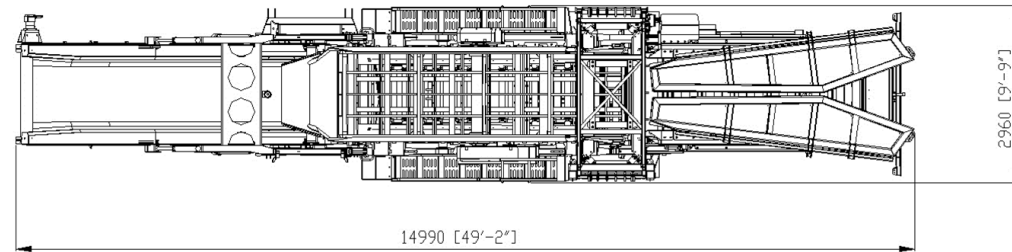


## WARRIOR 1800



## DIMENSIONS

Figure 4: Warrior 1800  
2 Way Split  
Transport Position



MORE DIMENSIONS OVERLEAF

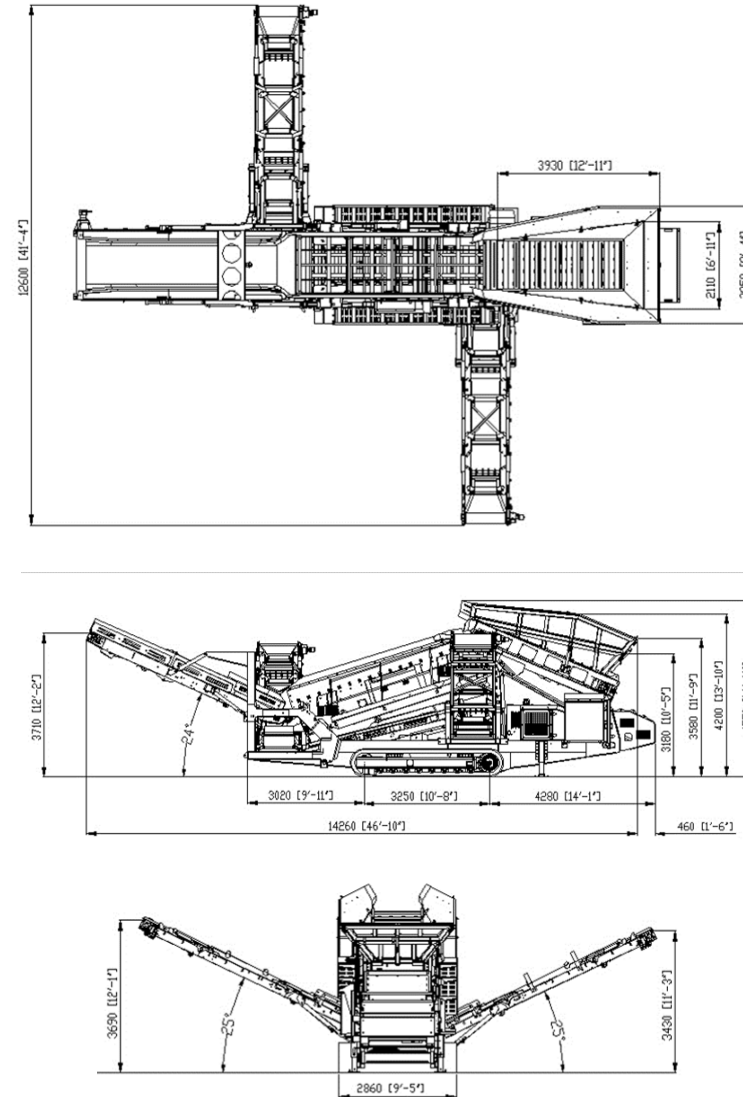


## WARRIOR 1800



## DIMENSIONS

Figure 5: Warrior 1800  
Dual Power - Working Position



MORE DIMENSIONS OVERLEAF



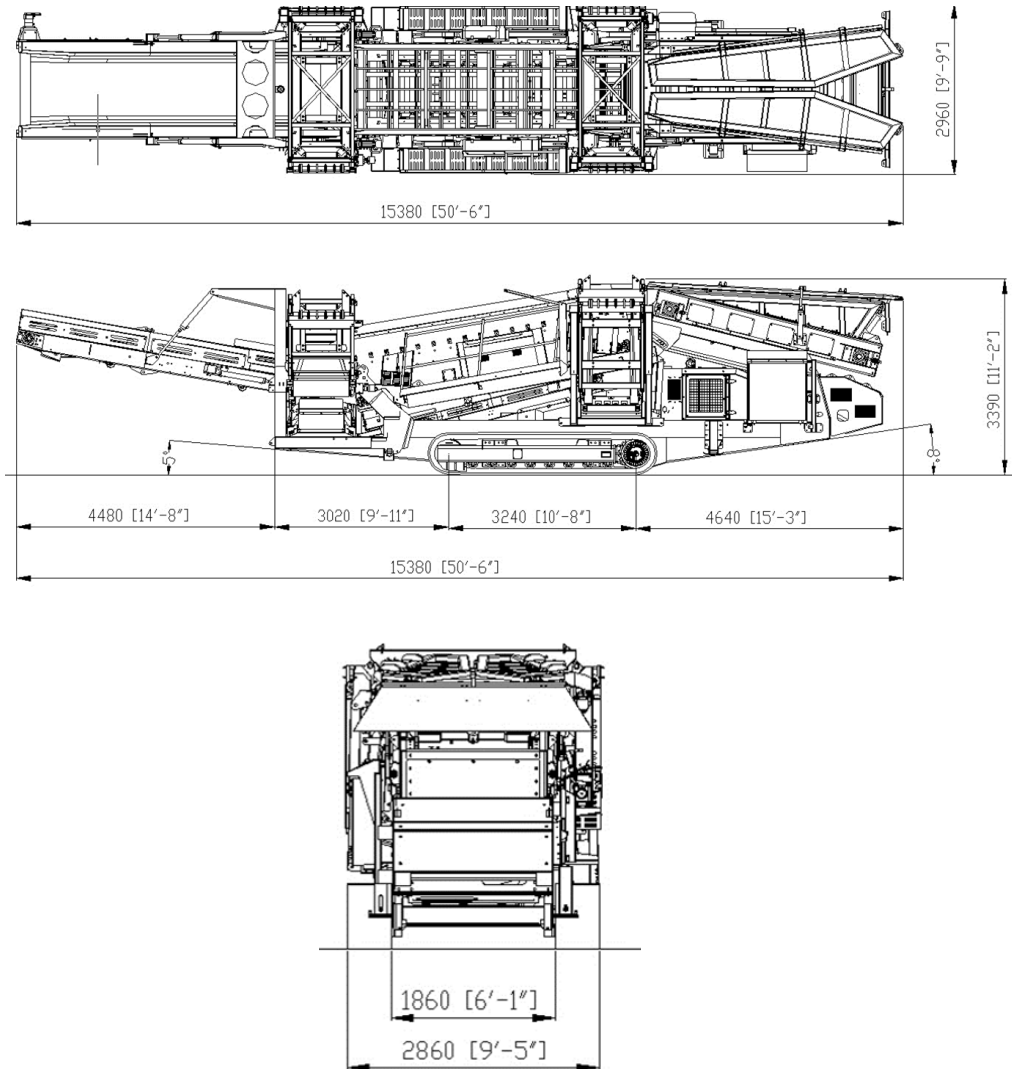


## WARRIOR 1800

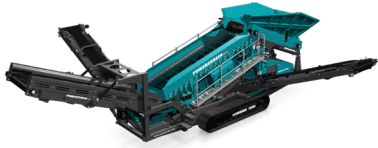


## DIMENSIONS

Figure 6: Warrior 1800  
Dual Power - Transport Position



MORE DIMENSIONS OVERLEAF

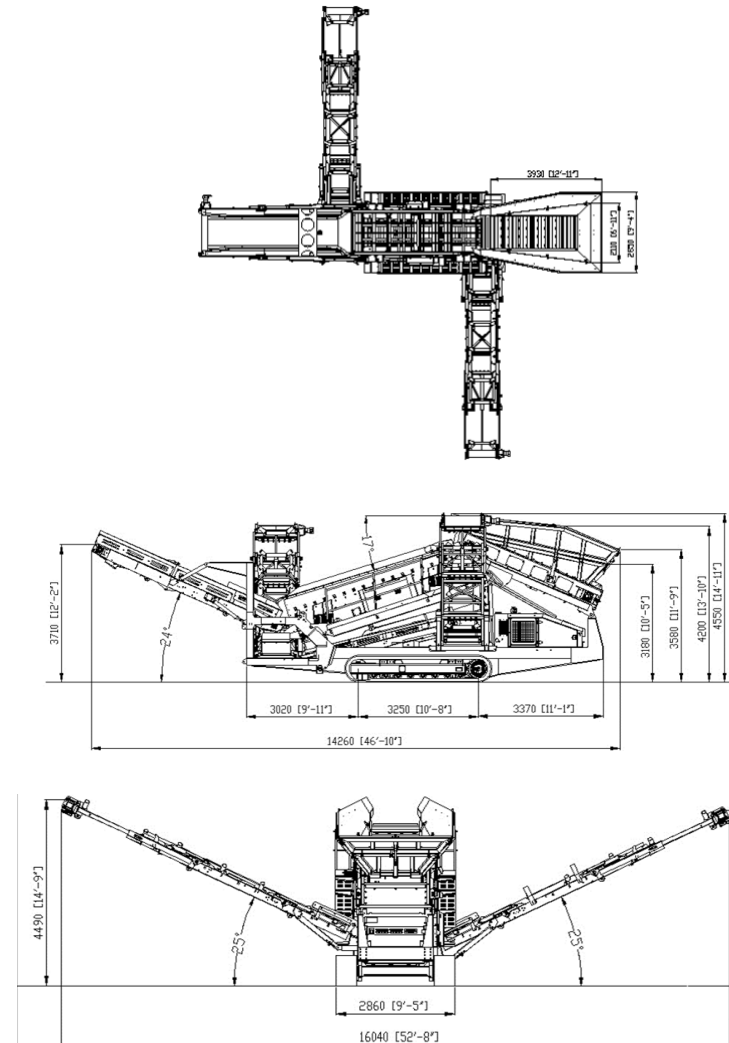


## WARRIOR 1800

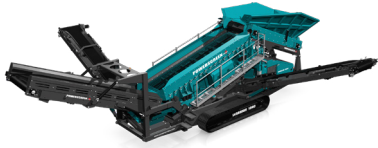


# DIMENSIONS

Figure 7: Warrior 1800  
Telescopic Side Conveyors - Working Position



MORE DIMENSIONS OVERLEAF

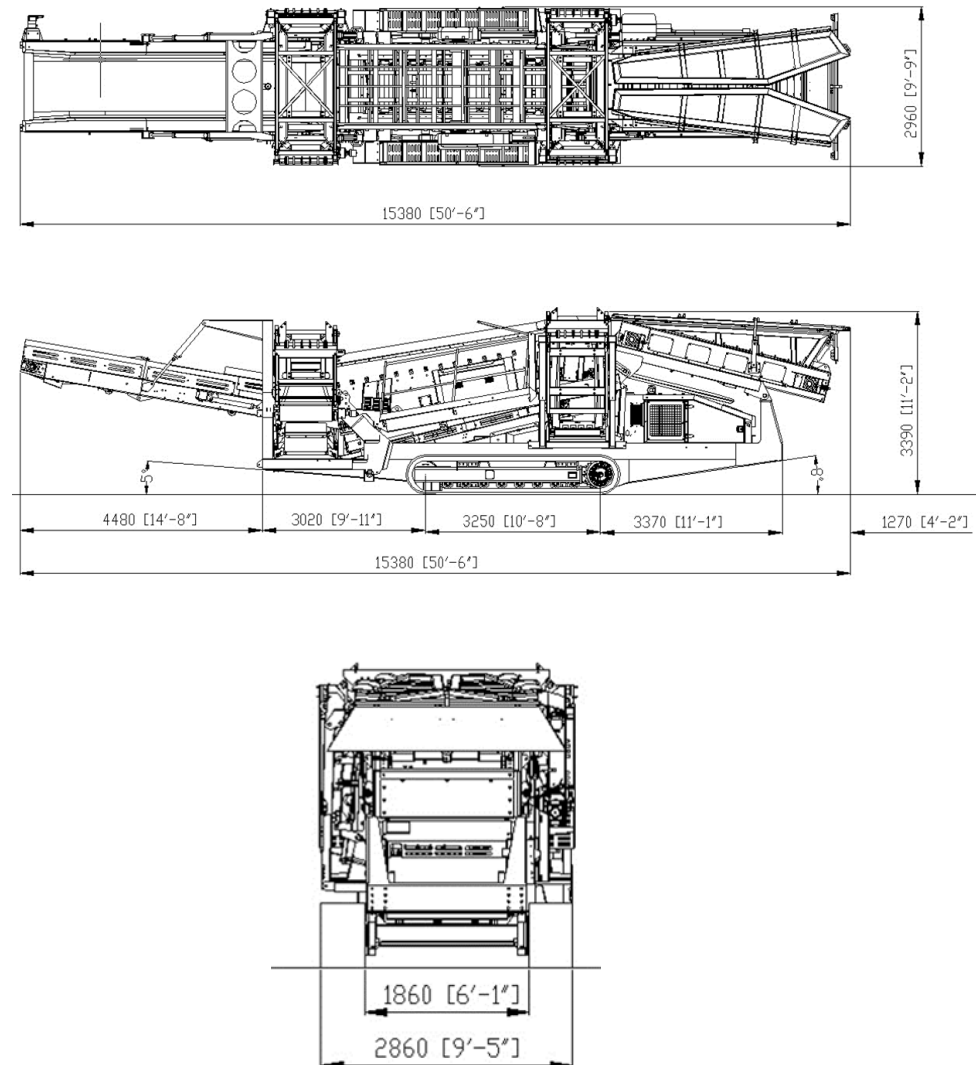


## WARRIOR 1800



## DIMENSIONS

Figure 8: Warrior 1800  
Telescopic Side Conveyors - 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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