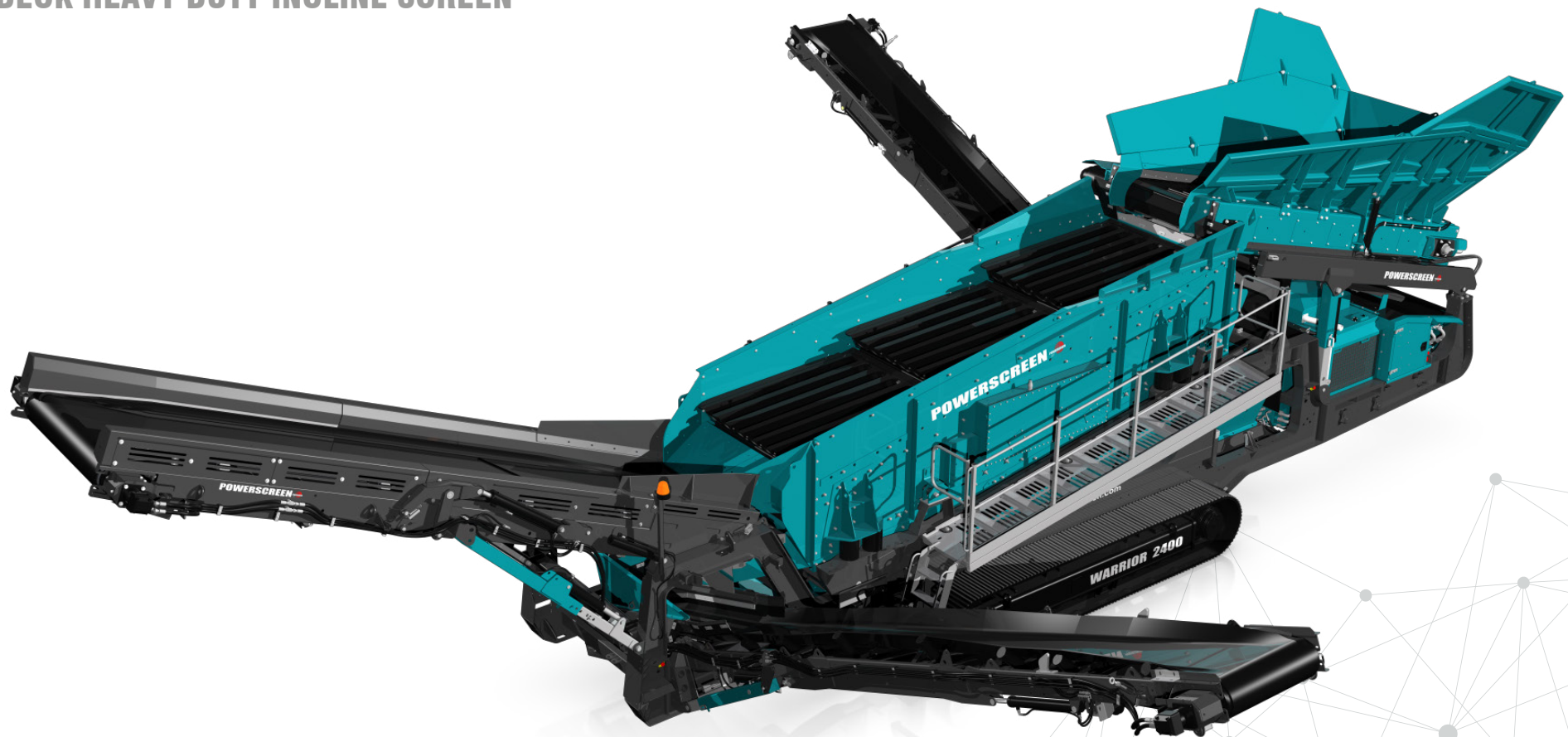


# POWERSCREEN® WARRIOR 2400

2 DECK HEAVY DUTY INCLINE SCREEN



TECHNICAL SPECIFICATION - REV 11. 01/01/2019





## WARRIOR 2400



# OVERVIEW

## SPECIFICATION

<b>Total weight</b>	46,200kg ( 101,854lbs)
<b>Transport</b>	<b>Length</b> 17.3m (56' 10")
	<b>Width</b> 3m (9' 10")
	<b>Height</b> 3.6m (11' 10")
<b>Working</b>	<b>Length</b> 18.5m (60' 8")
	<b>Width</b> 15.3m (50' 3")
	<b>Height</b> 5.22m (16' 11")
<b>Screenbox</b>	6.1m x 1.93m (20' x 6' 4")
<b>Power Unit</b>	Diesel / Hydraulic
<b>Plant Colour</b>	RAL 5021, 7024 & 9005

(Weight & dimensions are approximate base unit values)

## FEATURES & BENEFITS

- High capacity up to 800 tph / 882 US tph (depending on media sizes & material type)
- Maximum feed size 750mm (2' 6"). 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
- Direct feed incline hopper with impact bars & impact rollers
- Hydraulic folding hopper sides featuring wedge retainers (belt feeder only)
- Hydraulic load sensing on under screen conveyor circuit & fines discharge conveyor circuit
- Highly aggressive heavy duty triple shaft incline screen with adjustable speed, stroke & stroke angle
- Jack-up screen facility for access to screen media & collection conveyor
- Screen media is interchangeable with the Horizon range of products
- Jack-up legs for screen levelling as standard
- Hydraulically folding conveyors for transport
- Heavy duty 2 speed tracks complete with pendant remote control
- Dual power option
- 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 2400



# HOPPER

**Target area:** 5.49m (18') long x 2.7m (8' 10") wide

**Hopper capacity:** 10m<sup>3</sup> (13 cu. yd.)

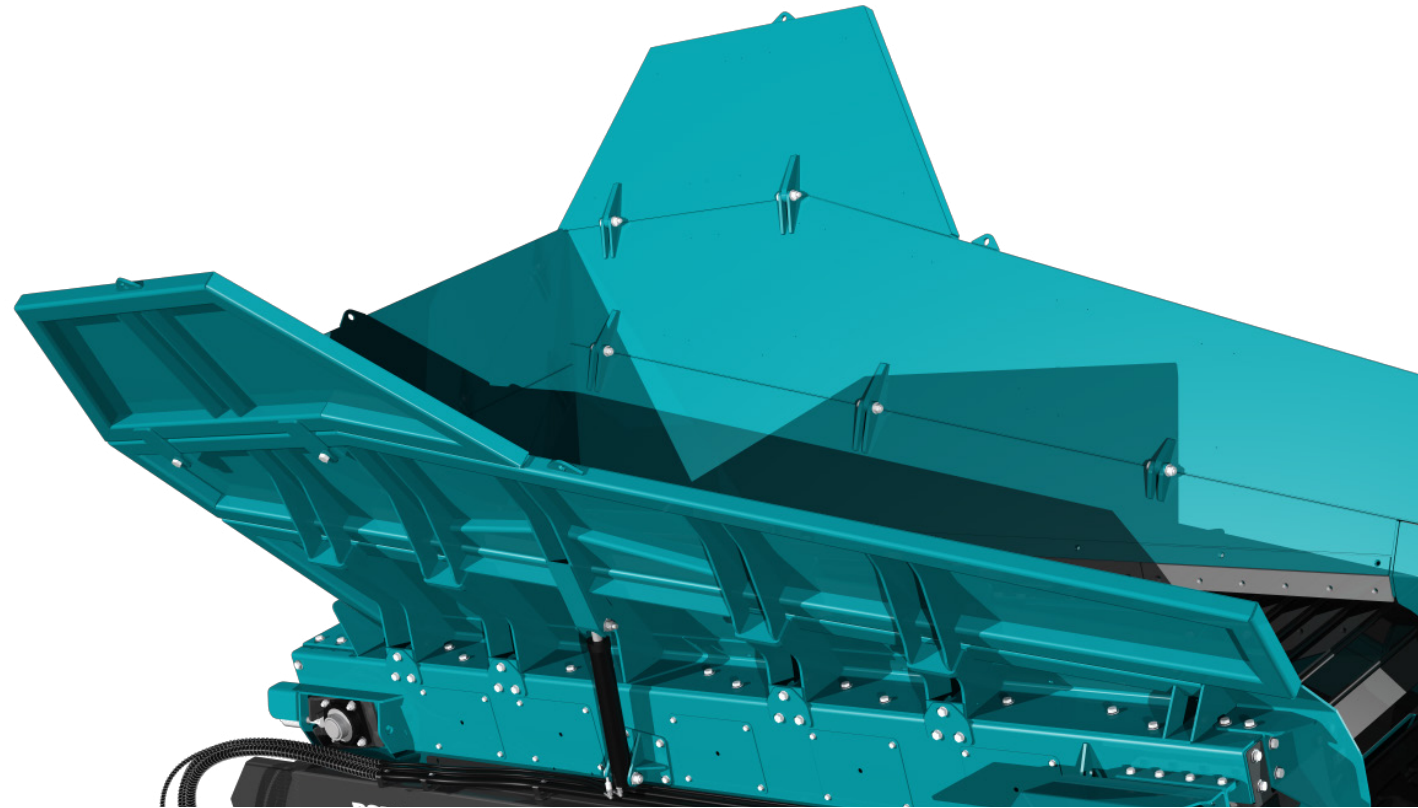
**Feed in height:** (rear) 3.88m (12' 9")

**Feed in height:** (side) 4.66m (15' 3")

**Feed in height:** (collapsed hopper) 3.36m (11')

Hydraulic folding hopper sides with over centre struts

Complete with wedge lock system, rear wall is collapsible for direct feeding





## WARRIOR 2400



# ↓ SCREENBOX

Heavy duty 6.1m x 1.93m (20' x 6' 4") 2 deck incline screen with aggressive, triple shaft drive mechanism featuring adjustable speed & stroke angle

Adjustable oval stroke: 10mm-15mm

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

Marshmallow springs

Wear plates on pipe units

Galvanised maintenance platforms on both sides of screen

Screen suitable for bofor, finger, punch plate and

mesh screening media





## WARRIOR 2400



# ↓ CONVEYORS

### HEAVY DUTY BELT FEEDER

Feeder impact protection bars & impact rollers

1300mm (4' 3") extra heavy duty belt

4.79m (15' 9") drum centres

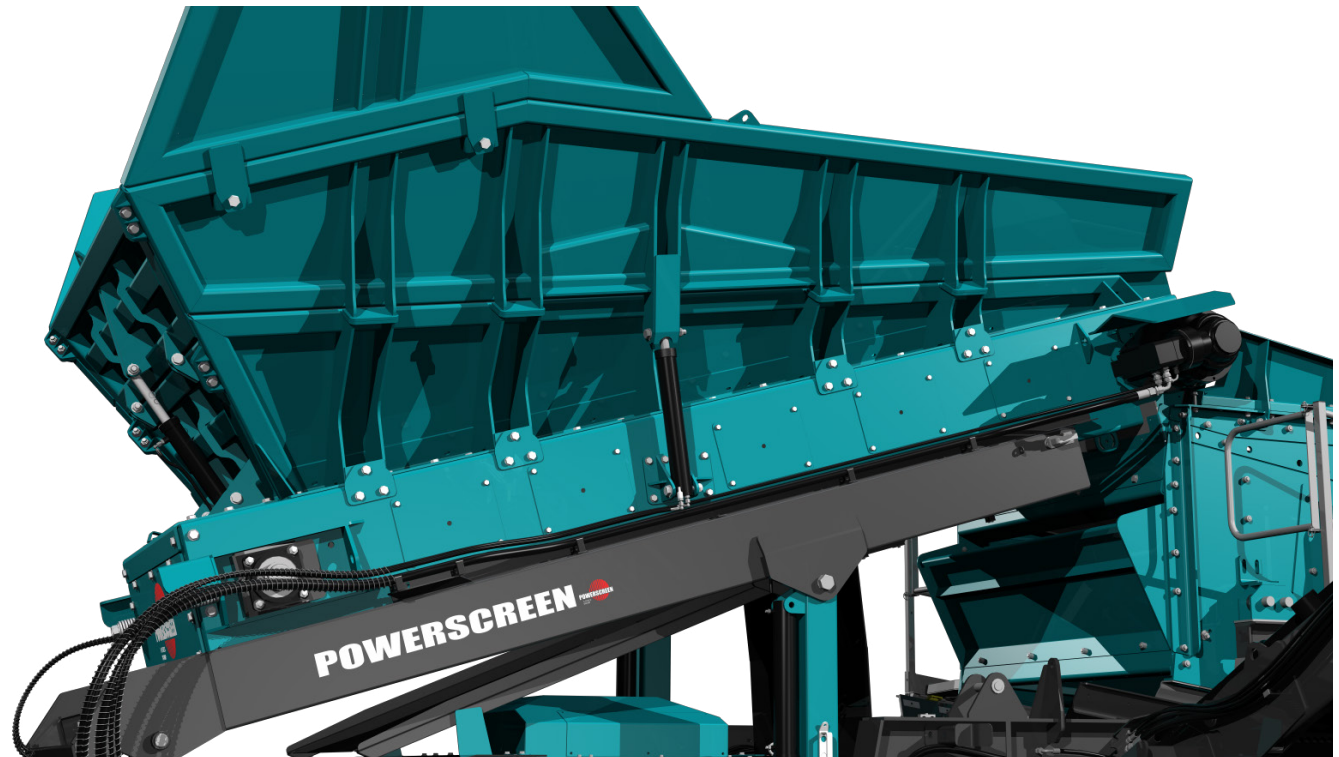
375mm (14.8") diameter drive drum

Gearbox driven: 0 - 21rpm (0 - 23m/s)

Hydraulic load sensing

Variable speed control

Supergrip drive drum as standard





## WARRIOR 2400



# ↓ CONVEYORS

### OVERSIZE - TAIL CONVEYOR

- 1600mm (5' 3") wide 3 ply chevron belt
- 6.6m (21' 8") drum centres
- 286mm (11.3") drum diameter (drive)
- 4.8m (15' 9") stockpile height
- 164m<sup>3</sup> (215 cu. yd.) stockpile capacity
- Wear resistant steel lined feed chute
- Variable speed control
- Hydraulically folding for transport
- Impact bars feed boot section
- Angle adjustable 14° –24°





## WARRIOR 2400



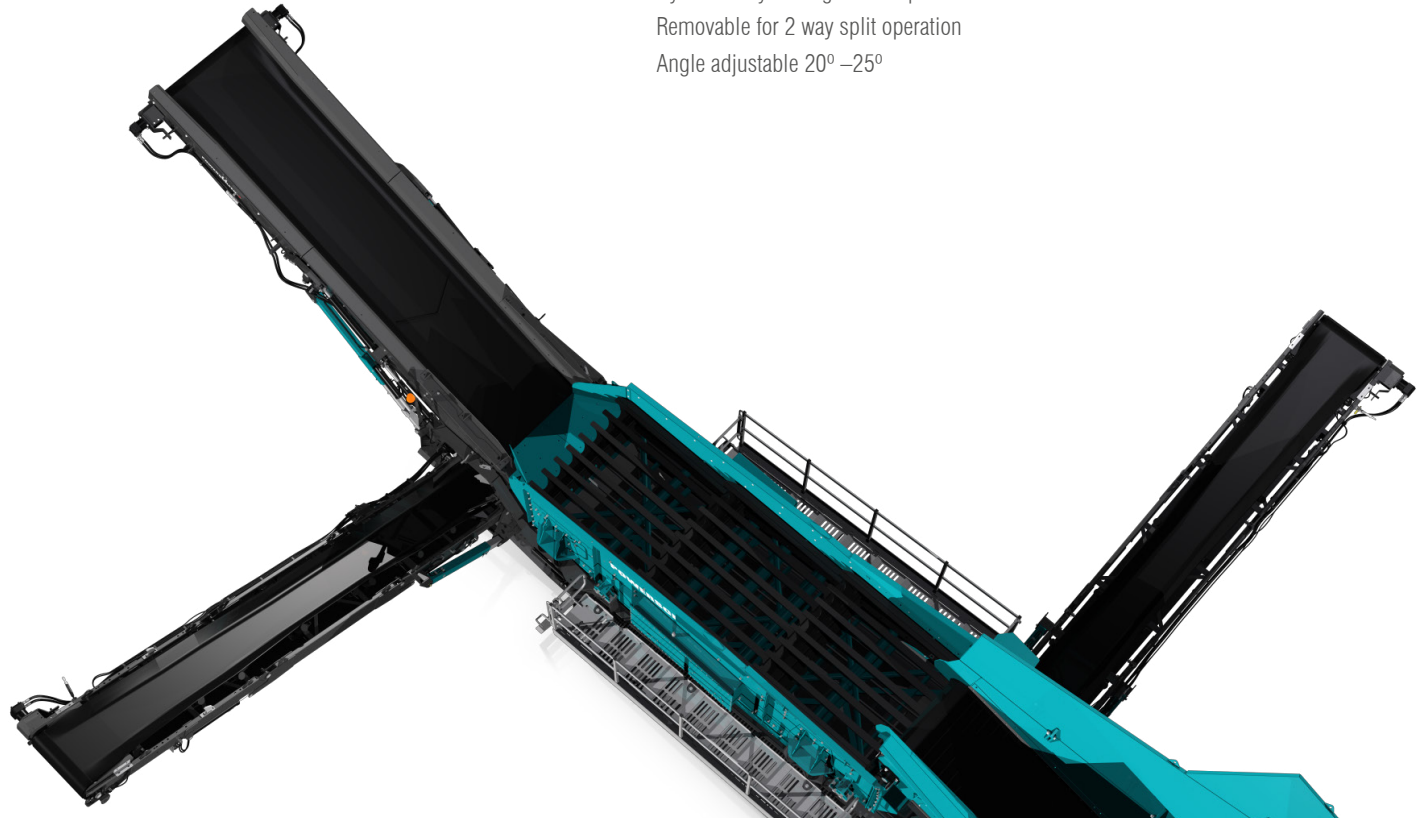
# ↓ CONVEYORS

### FINESIZE - SIDE CONVEYOR

900mm (2' 11") wide 3 ply plain belt  
8.73m (28' 8") drum centres  
286mm (11.3") drum diameter (drive)  
4.11m (13' 6") stockpile height  
103m<sup>3</sup> (135 cu. yd.) stockpile capacity  
Hydraulically folding for transport  
Variable speed control

### MIDSIZE - SIDE CONVEYOR

900mm (2' 11") wide 3 ply plain  
8.73m (28' 8") drum centres  
286mm (11.3") drum diameter (drive)  
4.11m (13' 6") stockpile height  
103m<sup>3</sup> (135 cu. yd.) stockpile capacity  
Wear resistant steel lined feed chute  
Variable speed control  
Hydraulically folding for transport  
Removable for 2 way split operation  
Angle adjustable 20° -25°





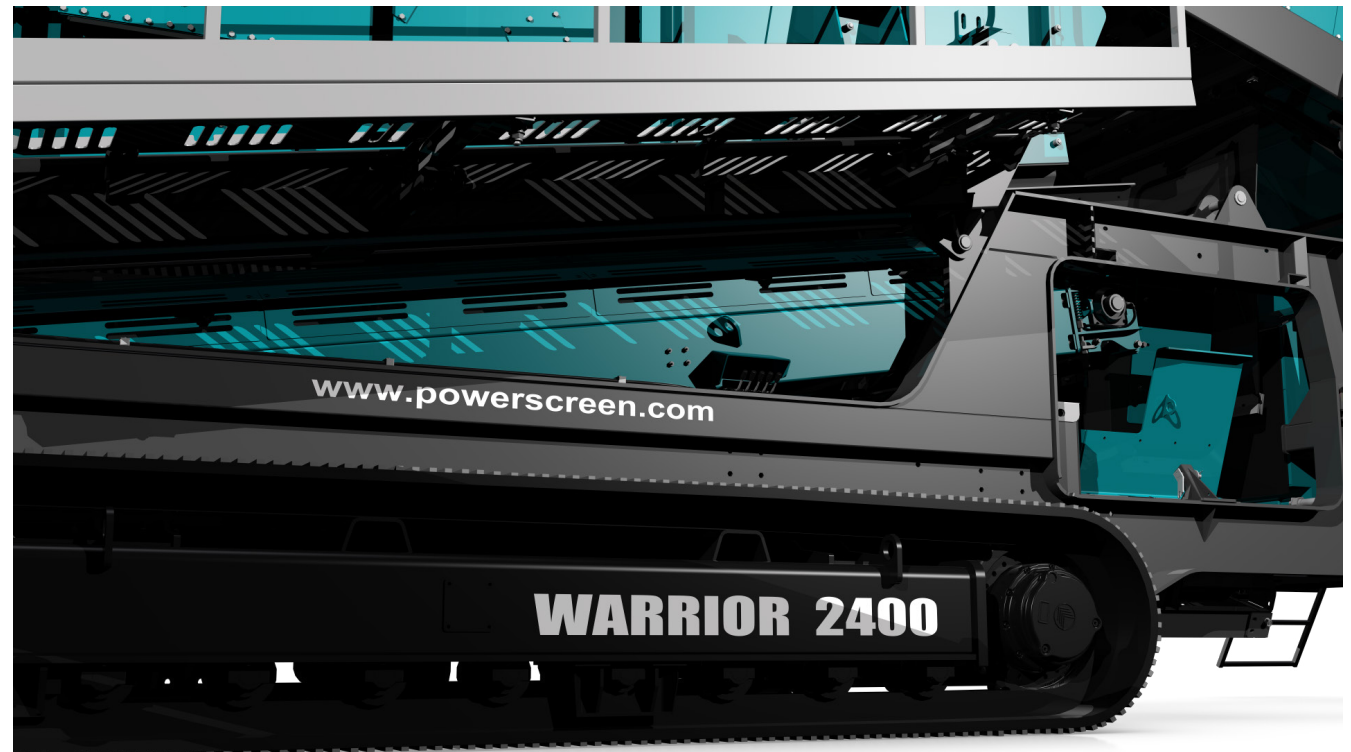
## WARRIOR 2400



# CONVEYORS

### UNDERSCREEN CONVEYOR

1500mm (4' 11") wide 3 ply plain belt  
6.25m (20' 6") drum centres  
270mm (10.6") drum diameter (drive)  
Dual head drum scrapers





## WARRIOR 2400



# ↓ POWER UNIT & HYDRAULICS

**Engine Tier 3 Equivalent:**

CAT C7.1 LRC

**Performance:**

151 kW (202hp) @ 2200rpm

**Tier 4F / Stage IV:**

CAT C7.1 LRC

**Performance:**

151 kW (202hp) @ 2200rpm

**Tank Capacities:**

Fuel: 597L (158 US Gal)

Hydraulic oil: 780L (206 US Gal)

**Pumps:**

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

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

**Motors:**

Feed conveyor: Cast iron 80cc/rev

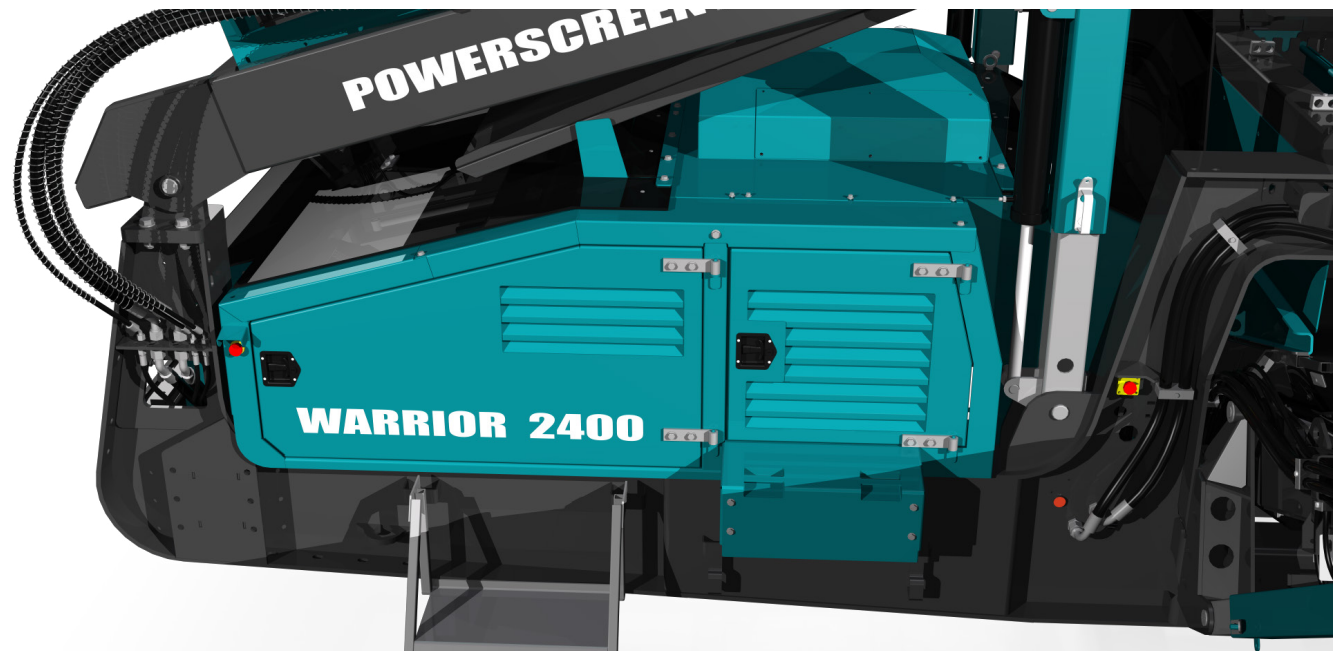
Tail conveyor: Twin drive, Cast iron 500cc/rev

Mid fines side conveyor: Cast iron 500cc/rev

Under screen conveyor: Cast iron 630cc/rev

Fines side conveyor: Cast iron 500cc/rev

Screen: Cast iron 93cc/rev





## WARRIOR 2400



## TRACKS

Track width: 500mm (1' 8")

Sprocket centres: 3800mm (12' 6")

Two speed tracks

Approximate speed: 0.55kph (0.34 mph) (slow)

Approximate speed: 1.1kph (0.68 mph) (fast)

Total flow per track: 134 Lpm

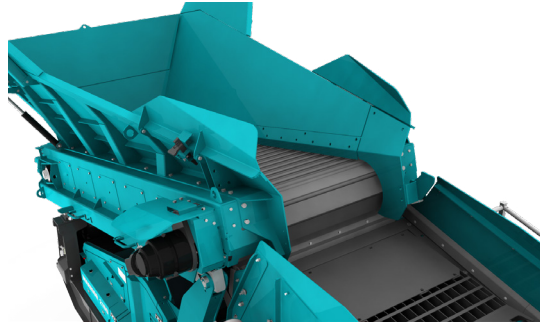




## WARRIOR 2400



## OPTIONS



### INCLINE APRON FEEDER

1300mm (4' 3") wide wear resistant feed apron  
4.3m (14' 1") apron centres  
Fitted with single gearbox drive  
Variable speed control  
Increase in machine weight: +3,100kg (6,834lbs)

### HOPPER WING EXTENSIONS

2 hopper wing extensions (bolt on)  
Manufactured from wear resistant steel for end loading belt feeder with wheel loader  
Extensions remain attached to hopper wings during transport

### ADJUSTABLE HOPPER DOOR

Used in conjunction with feeder conveyor flow control valve to mechanically control the feed material discharge rate

### SCREEN CHAIN BLANKET

Top deck screen chain blanket complete with weight blocks which controls the oversize material speed



## WARRIOR 2400



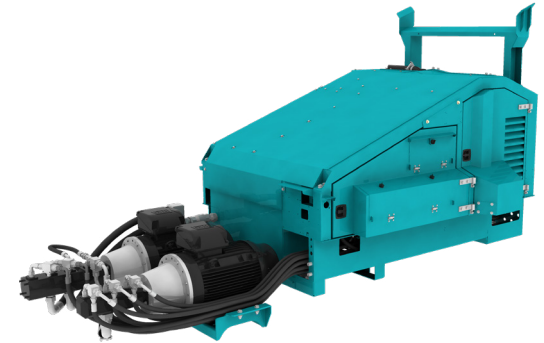
## OPTIONS

### 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

### ROLL-IN BOGIE TRANSPORT SYSTEM

Chassis modified to accept tri-axle roll-in bogie complete with kingpin (Non TUV)  
Chassis complete with tri-axle roll-in bogie / kingpin (Non TUV)  
ABS braking (additional)  
Lighting board (additional)



### DUAL POWER

2 of electric motors IE3; 75 kW (100hp) & 55 kW (73hp)  
Diesel engine  
Integrated control system managing 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.



## WARRIOR 2400



# OPTIONS

### OTHER OPTIONS

- Custom colour machine
- Medium speed, belt feeder drive (12—36 rpm)
- Chevron side conveyor belts
- Auto lubrication system
- Radio controlled tracking
- Powerscreen Pulse
- Heavy duty finger / punch plate combination
- Supergrip drive drum
- Adjustable hopper outlet door
- Hopper extensions
- Wear resistant hopper
- Quick release wedge tensioning



## WARRIOR 2400



# ↓ 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**

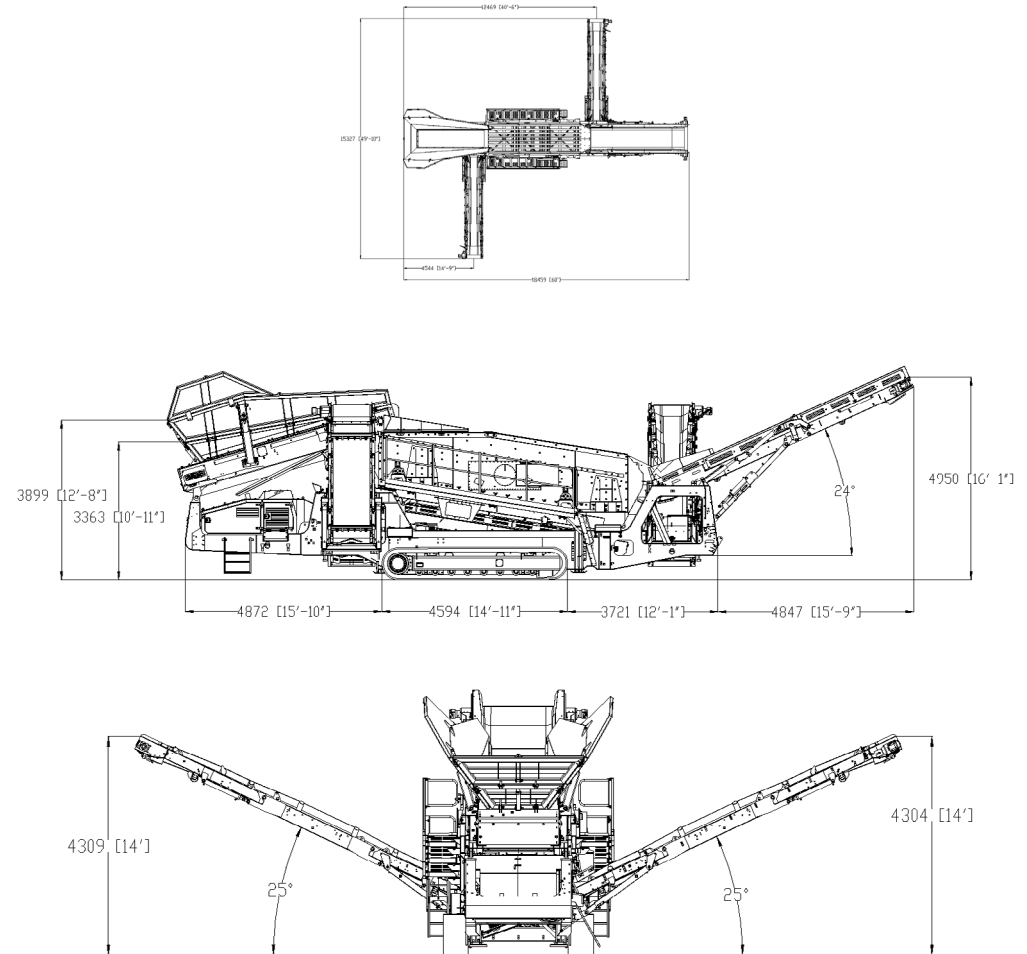


## WARRIOR 2400



# DIMENSIONS

Figure 1: Warrior 2400  
Working Position



[MORE DIMENSIONS OVERLEAF](#)

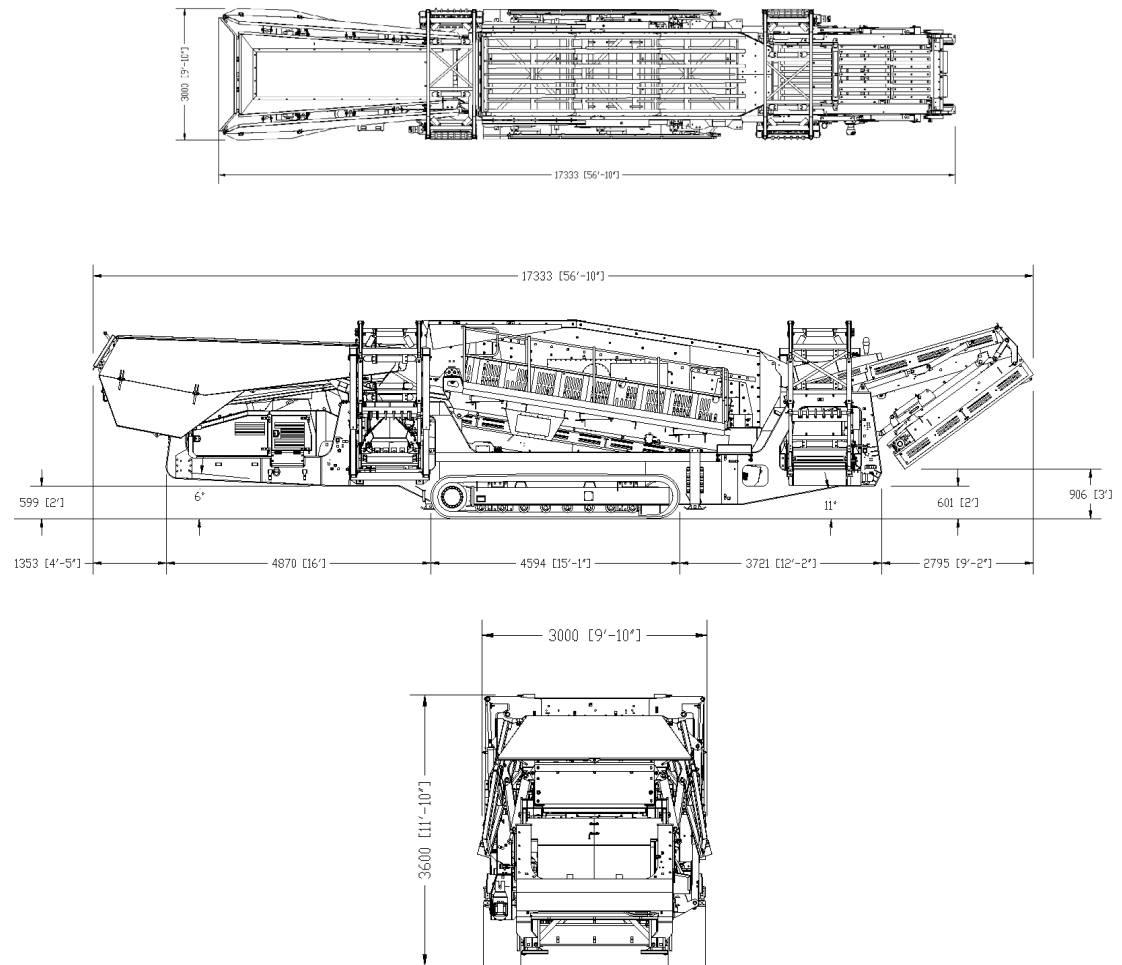


## WARRIOR 2400



# DIMENSIONS

Figure 2: Warrior 2400  
Transport Position



MORE DIMENSIONS OVERLEAF

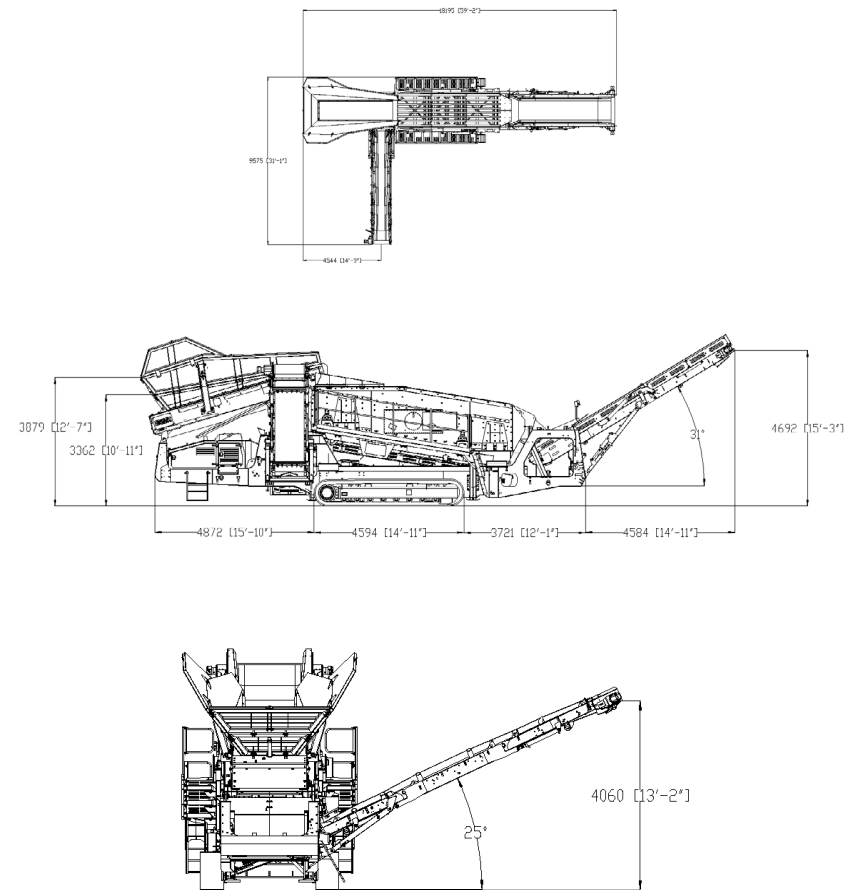


## WARRIOR 2400



# DIMENSIONS

Figure 3: Warrior 2400  
2 Way Split  
Working Position



MORE DIMENSIONS OVERLEAF

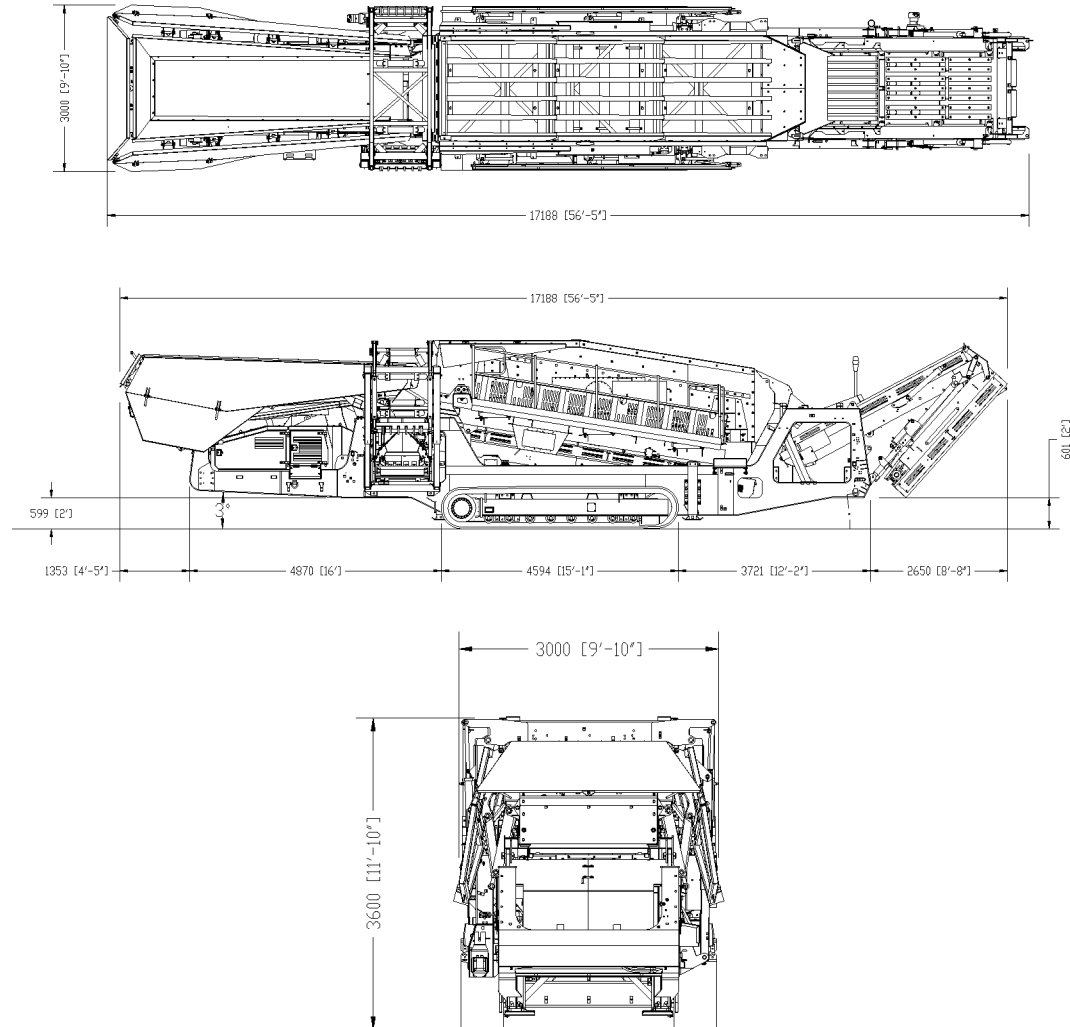


## WARRIOR 2400



# DIMENSIONS

Figure 4: Warrior 2400  
2 Way Split  
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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