

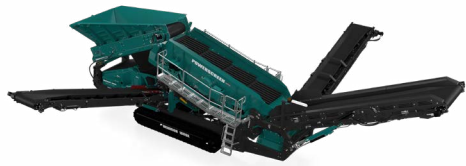
# POWERSCREEN® WARRIOR 1800X

2 DECK HEAVY DUTY SCALPING SCREEN



TECHNICAL SPECIFICATION - REV 4 01/10/2024





## WARRIOR 1800X



# OVERVIEW

## SPECIFICATION

<b>Total weight</b>	35,000kg (77,162lbs)
<b>Transport</b>	<b>Length</b> 15.99m (52' 5")
	<b>Width</b> 2.97m (9' 9")
	<b>Height</b> 3.43m (11' 3")
<b>Working</b>	<b>Length</b> 16.1m (52' 10")
	<b>Width</b> 13.59m (44' 7")
	<b>Height</b> 4.79m (15' 9")
<b>Screenbox</b>	4.88m x 1.56m (16' x 5' 1")
<b>Power Unit</b>	Diesel / Hydraulic
<b>Plant Colour</b>	RAL 5021, RAL 7024 & RAL 9005

(Weight & dimensions are approximate base unit values)

## FEATURES & BENEFITS

- High capacity up to 625 tph / 689 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
- Fixed hopper sides & twin drive belt feeder
- Jack-up screen facility for access to screen media & underscreen conveyor
- Underscreen conveyor raise feature for conveyor & diesel tank access
- Heavy duty 2 deck incline screenbox with aggressive single shaft drive
- Galvanised screen walkways & access ladders as standard
- Maximum mobility with heavy duty, low ground pressure tracks
- Quick set up time - typically under 10 minutes
- Hydraulically folding conveyors for transport
- 2 speed heavy duty tracks with removable pendant remote control system
- High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler
- Dual power option
- Prepared to accept a Powerscreen Warrior 2100 Spaleck recycling screenbox
- 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



## WARRIOR 1800X



# HOPPER

Target area: 4.7m (15' 5") long x 2.6m (8' 6") wide

Hopper capacity: 8.2m<sup>3</sup> (10.72 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) 4.52m (14' 1")

**Feed in height:** (rear) 3.69m (12' 1")

**Feed in height:** (collapsed hopper) 3.02m (9' 11")





## WARRIOR 1800X



# SCREENBOX

Heavy duty 4.88m x 1.56m (16' x 5' 1'') 2 deck screenbox with adjustable screening range up to 18°

Top deck : 4.88m x 1.56m (16' x 5' 1'')

Bottom deck : 4.65m x 1.56m (15' 3'' x 5' 1')

Pulley driven system with screenbox mounted motor allowing for 10mm and 12mm stroke settings

Traditional single shaft drive mounted on large 130mm bearings

Jack-up facility for access to screen media

Galvanised maintenance platforms

Screen suitable for bofor, finger, 3D punch plate, tensioned punch plate, and tensioned mesh media





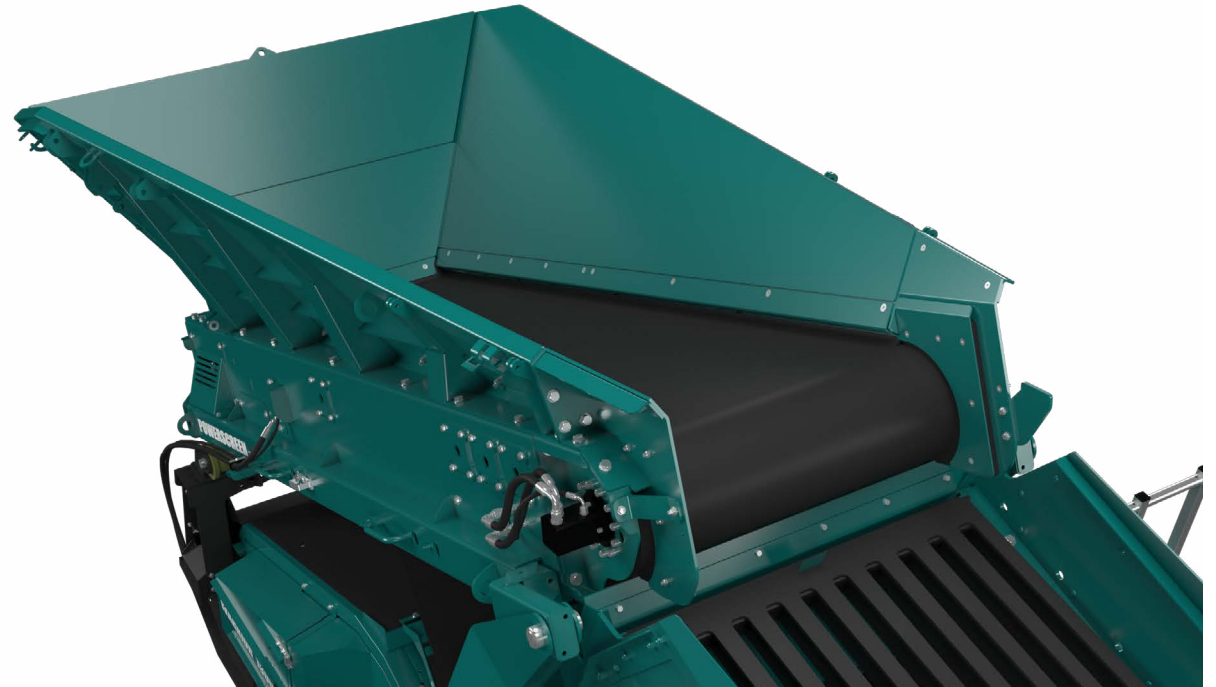
## WARRIOR 1800X



# CONVEYORS

### HEAVY DUTY BELT FEEDER

Heavy duty impact bars & impact rollers supporting belt  
1300mm (52") 4 ply heavy duty grade belt  
4.1m (13' 5") drum centres  
Heavy duty drive featuring twin gearbox drive  
Driving speed: (17rpm, 20m/min)  
Variable speed control  
Easy clean system under feeder  
Supergrip drive drum as standard





## WARRIOR 1800X



# ↓ CONVEYORS

### UNDERSCREEN CONVEYOR

- 1300mm (52") wide 3 ply plain belt
- 4.6m (15' 1") drum centres
- Accessible via jack-up screen facility
- Underside accessible with collection conveyor raise facility
- Hydraulic overload protection to reduce the possibility of belt stall

### OVERSIZE - TAIL CONVEYOR

- 1400mm (56") wide troughed 3 ply chevron belt
- 6.35m (20' 10") drum centres
- Variable speed control
- Hydraulically raise & lower facility
- Impact bars along entire length
- Hydraulically folding for transport
- Angle adjustable 0° - 24°
- 4.2m (13' 9") stockpile height
- 110m<sup>3</sup> (144 cu. yd.) stockpile volume





## WARRIOR 1800X



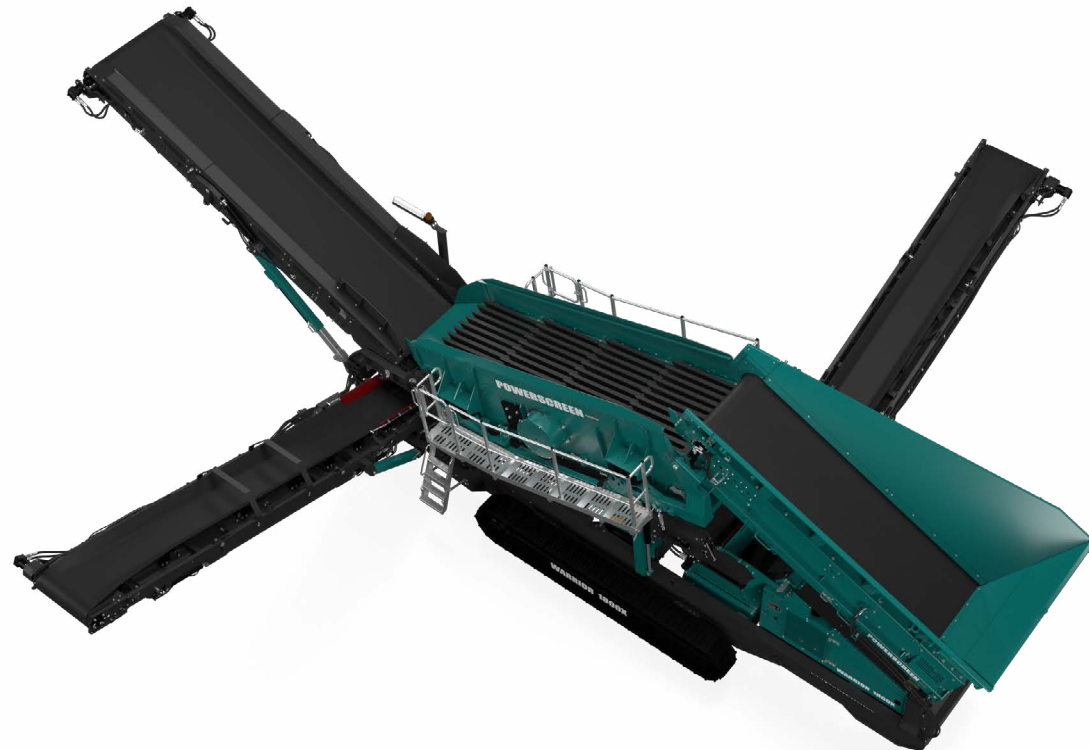
# ↓ CONVEYORS

### FINESIZE - SIDE CONVEYOR

- 900mm (36") wide 3 ply plain belt
- 7.8m (25' 7") drum centres
- Impact bars under feedboot area
- Deflector plate for optimum material travel
- Variable speed control
- Hydraulically folding, angle adjustable
- Hydraulic overload protection to reduce the possibility of belt stall
- 4.08m (13' 5") stockpile height
- 90m<sup>3</sup> (118 cu. yd.) stockpile volume
- 4.8m (15' 9") stockpile height (extended)
- 123m<sup>3</sup> (161 cu. yd.) stockpile volume (extended)

### MIDSIZE - SIDE CONVEYOR

- 900mm (36") wide 3 ply plain belt
- 7.8m (25' 7") drum centres
- Impact bars under feedboot area
- Variable speed control
- Hydraulically folding, angle adjustable
- 3.81m (12' 6") stockpile height
- 73.5m<sup>3</sup> (96 cu. yd.) stockpile volume
- 4.19m (13' 9") stockpile height (extended)
- 102m<sup>3</sup> (133 cu. yd.) stockpile volume (extended)
- Removed during 2 way split operation





## WARRIOR 1800X



# POWER UNIT & HYDRAULICS

### Engine Tier 3 Equivalent:

Caterpillar C4.4 - 4 cylinder diesel

### Performance:

90kW (121hp) @ 1800rpm

### Engine Tier 4F:

Deutz 3.6 - 4 cylinder diesel

### Performance:

92kW (123hp) @ 1800rpm

### Engine Stage V:

Deutz 3.6, 4 cylinder diesel

### Performance:

92kW (123hp) @ 1800rpm

### Tank Capacities:

Fuel: 336 L (89 US Gal) Protected diesel tank

Hydraulic oil: 450 L (119 US Gal)

### Pumps:

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

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

### Motors:

Belt feeder Motors: Cast iron 125cc/rev x 2

Tail conveyor: Twin drive cast iron 500cc/rev

Mid fines conveyor: Cast iron 500cc/rev

Underscreen conveyor : Cast iron 500cc/rev

Fines conveyor: Cast iron 500cc/rev

Screen: Cast iron 80cc/rev

Optional apron feeder: Cast iron 400cc/rev





## WARRIOR 1800X



## TRACKS

Track width: 400mm (1' 4")

Sprocket centres: 3720mm (12' 2")

Two speed tracking system

Approximate speed: 0.93 Km/hr (0.58mph) (slow)

Approximate speed: 1.67 Km/hr (1.04mph) (fast)

Gradeability: 35°

Total flow per track: 110Lpm





## WARRIOR 1800X



## OPTIONS



### HEAVY DUTY APRON FEEDER

Heavy duty variable speed apron feeder option available.

Width: 1000mm (40" inside hopper width)

Weight: 8000Kg (17,637 lbs)

Note: This option will affect machine total weight



### HYDRAULIC FOLD & LOCK EXTENSIONS

Fully hydraulic folding and locking from ground level, the hopper extensions offer a target width of 3.49m (11' 5") to suit feeding with a wheel loader from the rear of the machine.

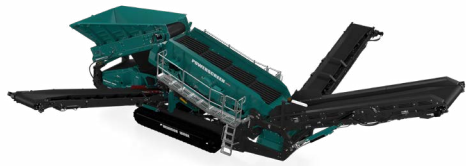


### 200MM CHASSIS RISER

Machine chassis raised 200mm (8") to provide improved ground clearance and additional conveyor stockpiling capacity.

Riser increases transport height, stockpile heights & feed in heights by 200mm (8")

Increase in machine weight: +450kg (992lbs)



## WARRIOR 1800X



## OPTIONS



### TWO WAY SPLIT

Two way split option available to allow mids and fines to be discharged from the same belt.

Can be ordered ex-works or converted on site

Note: Additional parts required for on site conversion



### DUAL POWER

2 of electric motors: 37kW

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.

Note: 3.8M Tracks required for this option

### OTHER OPTIONS

- Custom coloured machine
- Side conveyor telescopic hydraulic extensions (1.2m)
- Chevron side conveyor belts
- Auto lubrication system
- Radio controlled tracking
- Quick release wedge screen tensioning (side tensioned only)
- Screen blanket
- Hydraulically Tensioned bottom deck
- Wear lined hopper / wear lined hopper extensions
- Hydraulic oil Grade 68



## WARRIOR 1800X



# ↓ 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**

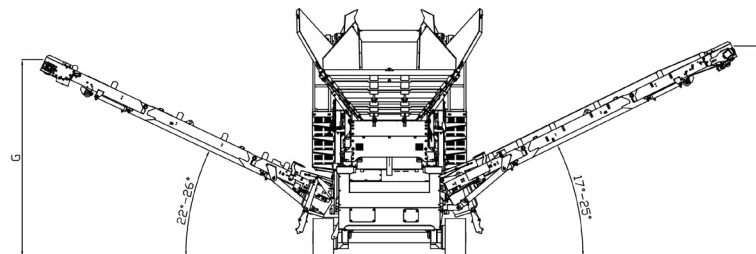
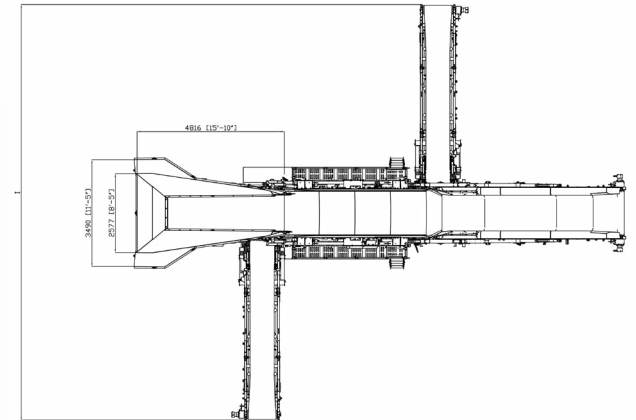
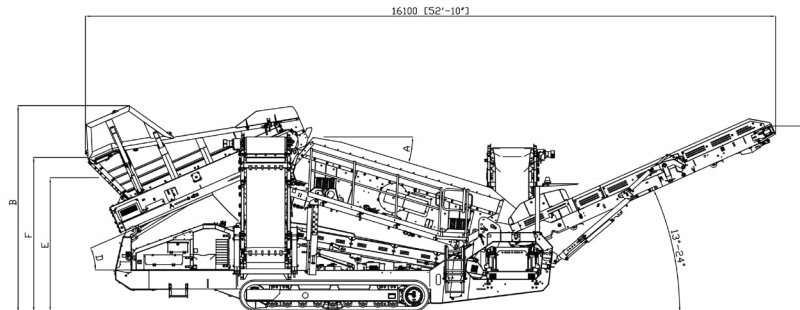


# WARRIOR 1800X



## DIMENSIONS

Figure 1: Warrior 1800X  
Working Position



DIMENSION	SINGLE SHAFT & SPALECK	DIMENSION (mm)		
		SIDE DISCHARGE CONVEYORS	TELESCOPIC CONVEYORS	
A	14° - 18°			
B	4716 MAX 4250 MIN			
C	4325 MAX 3168 MIN			
D	17°	G	3810 MAX 2979 MIN	4196 MAX 3264 MIN
E	3026 MAX 2925 MIN	H	4084 MAX 3677 MIN	4991 MAX 4006 MIN
F	3692 MAX 3605 MIN	I	13973 MAX 13590 MIN	15823 MAX 15292 MIN

\* CHASSIS RISER OPTION WILL ADD 200mm TO STD TRACKS AND 220mm HD TRACKS  
 \*\* HEAVY DUTY TRACKS OPTION WILL ADD 20mm WITH NO RISER  
 \*\*\* TELE CONVEYORS ADD XXXmm

[MORE DIMENSIONS OVERLEAF](#)

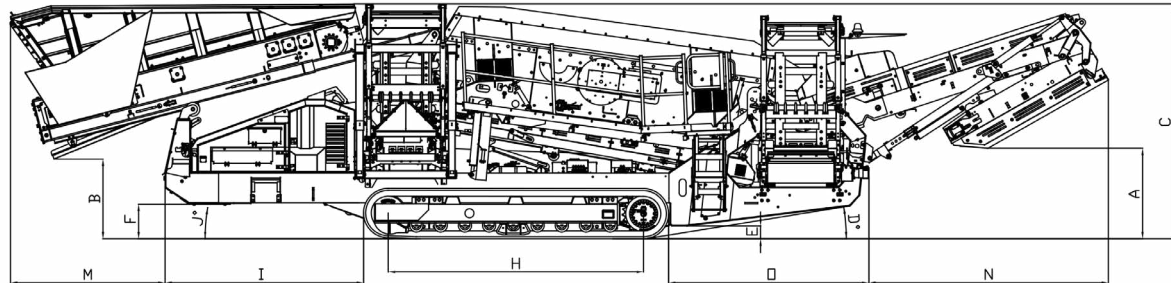
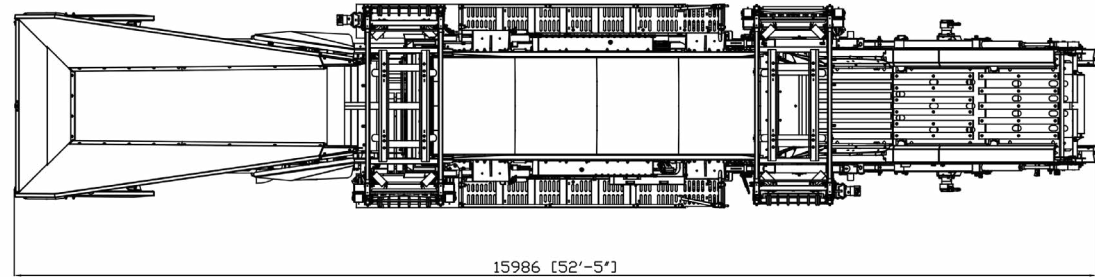


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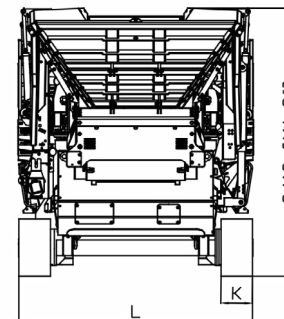


## DIMENSIONS

Figure 2: Warrior 1800X  
Transport Position



DIMENSION	STD TRACKS
A <sup>#</sup>	1312mm
B <sup>#</sup>	1155mm
C <sup>#</sup>	3404mm
D	STD CHASSIS 9"
E <sup>#</sup>	185mm
F <sup>#</sup>	500mm
G	4438mm
H	3717mm
I	2889mm
J	STD CHASSIS 10"
K	400mm
L	2975mm
M	2249mm
N	3485mm
D	2916mm





### **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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