

POWERSCREEN® WARRIOR 1400X

2 DECK HEAVY DUTY INCLINE SCREEN



TECHNICAL SPECIFICATION - REV 10 01/02/2023





WARRIOR 1400X



OVERVIEW

SPECIFICATION

Total weight	27,600kg (60,848lbs)
Transport	Length 14.17m (46' 6") Width 2.75m (9') Height 3.2m (10' 6")
Working	Length 14.23m (46' 8") Width 12.58m (41' 3") Height 4.57m (15')
Screenbox	3.6m x 1.37m (11' 10" x 4' 6")
Powerunit	Diesel / Electric
Plant Colour	RAL 5021, RAL 7024 & RAL 9005

(Weight & dimensions are approximate base unit values)

FEATURES & BENEFITS

- High capacity up to 500 tph / 551 US tph (depending on media sizes & material type)
- Maximum feed size 500mm (1' 8"). 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
- Single button start-up & shut down
- 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 aggressive 2 bearing screenbox with 10mm stroke (optional 12mm stroke)
- Galvanised screen walkways and access ladders as standard
- Maximum mobility with heavy duty, low ground pressure tracks
- Quick set up time typically under 10 minutes
- High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler
- Hydraulically folding conveyors for transport
- 2 speed heavy duty tracks, with removable pendant remote control system
- Dual power option
- 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 1400X



HOPPER

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

Hopper capacity: 7m³ (9.2 cu. yd.)

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

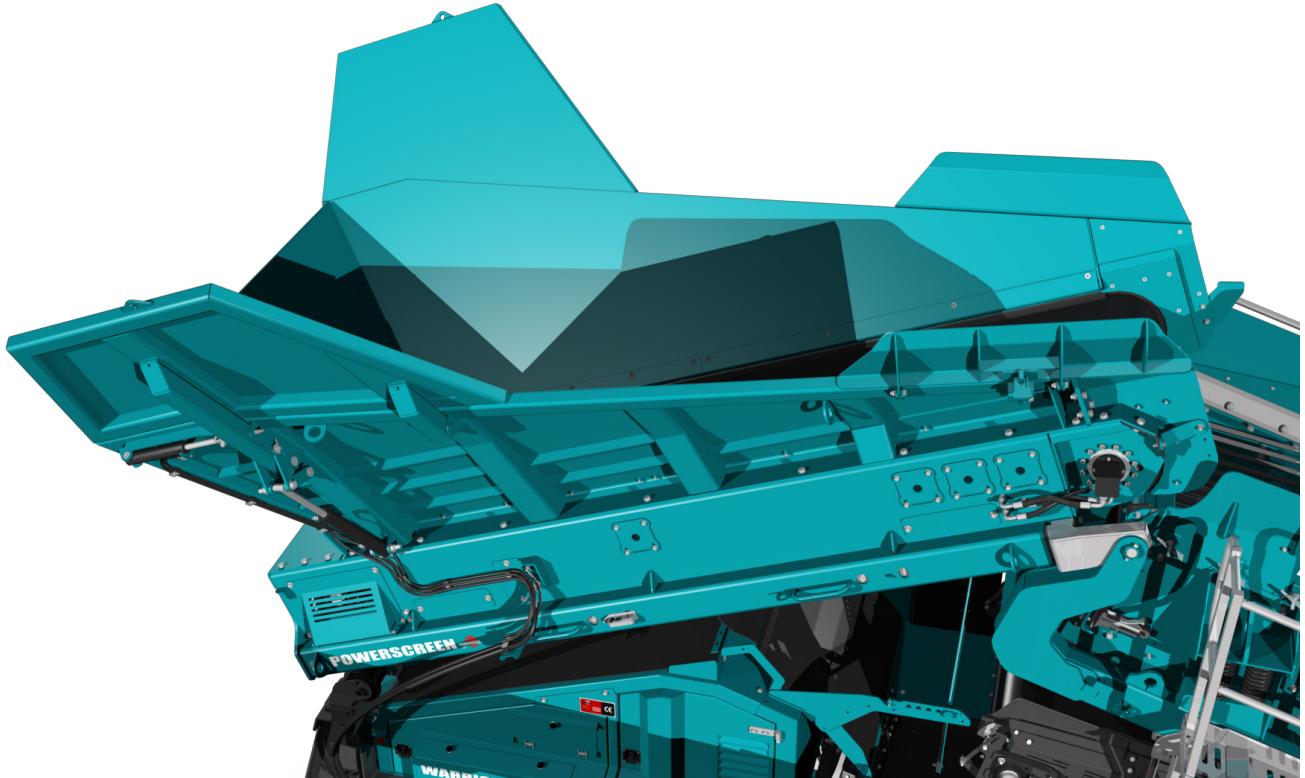
Rear wall collapsible for direct feeding - feed in height: 2.83m (9' 3")

Hydraulic slide & raise facilities for transport

Feed in height: (side) 3.52m (11' 7")

Feed in height: (rear) 3.38m (11' 1")

Feed in height with extensions: (side) 4.57m (15')





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SCREENBOX

Heavy duty 3.6m x 1.37m (11' 10" x 4' 6") 2 deck,
2 bearing incline screen with highly aggressive
and compact screen drive

Top deck : 3.52m x 1.23m (11' 7" x 4')

Bottom deck : 3.48m x 1.36m (11' 5" x 4' 5")

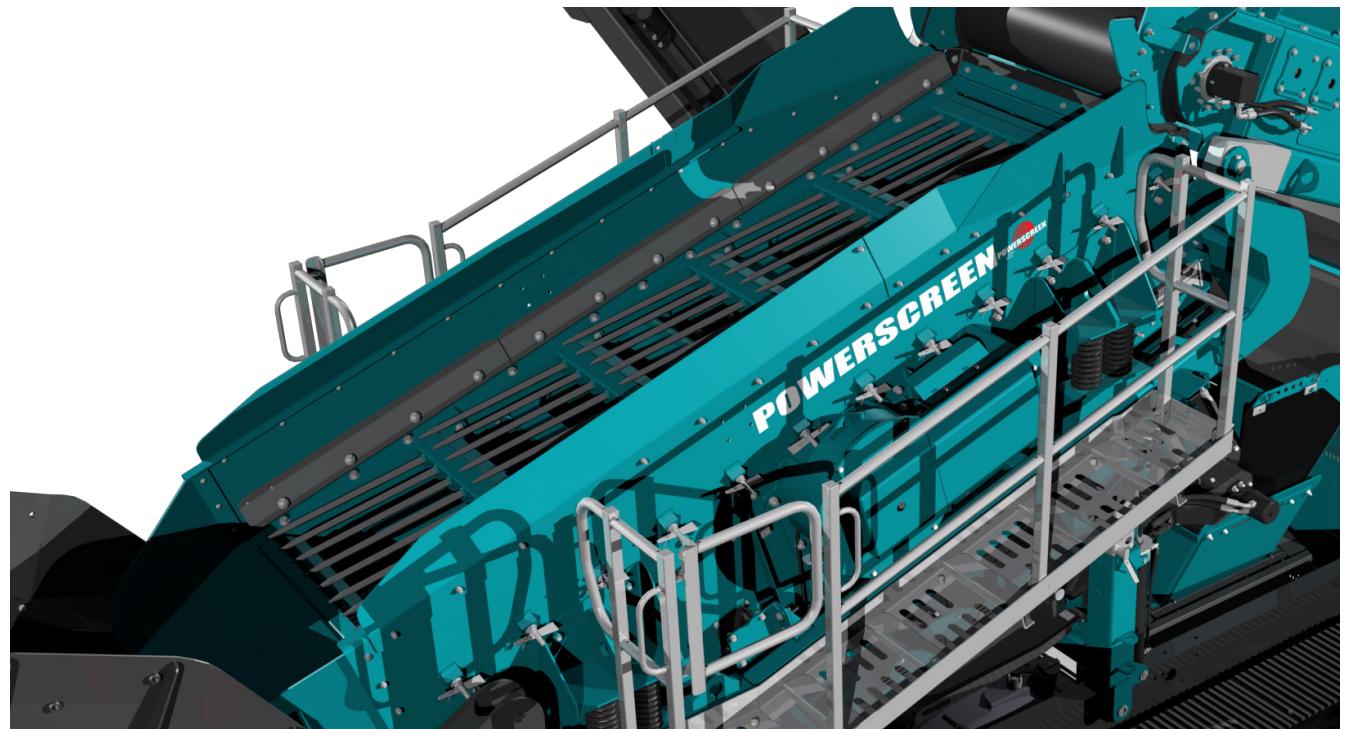
Adjustable belt driven screen drive, increased flexibility over direct
drive alternatives, adjustable stroke: 10 - 12mm (3/8" - 1/2")

Side tensioned or modular top deck
End tensioned or modular bottom deck

Jack-up screen facility for access to screen media 1m (3' 3") movement

Hydraulic screen angle adjustment 13° - 19°

Galvanised walkways on both sides of screen
Modular screen suitable for bofor, finger, punch plate and mesh screen media
& combined finger / punch plate.





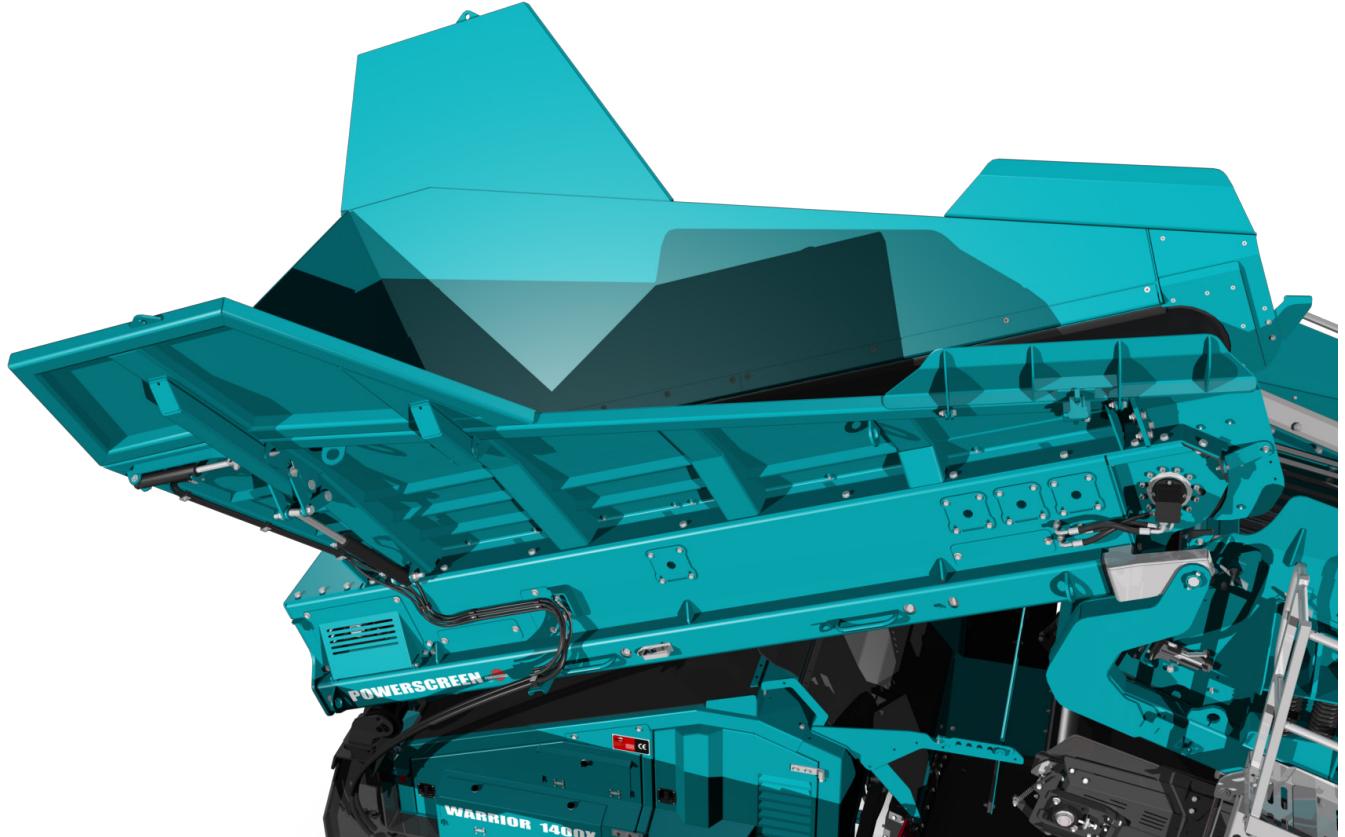
WARRIOR 1400X



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
Variable speed control
Stay clean system under feeder
Supergrip drive drum as standard





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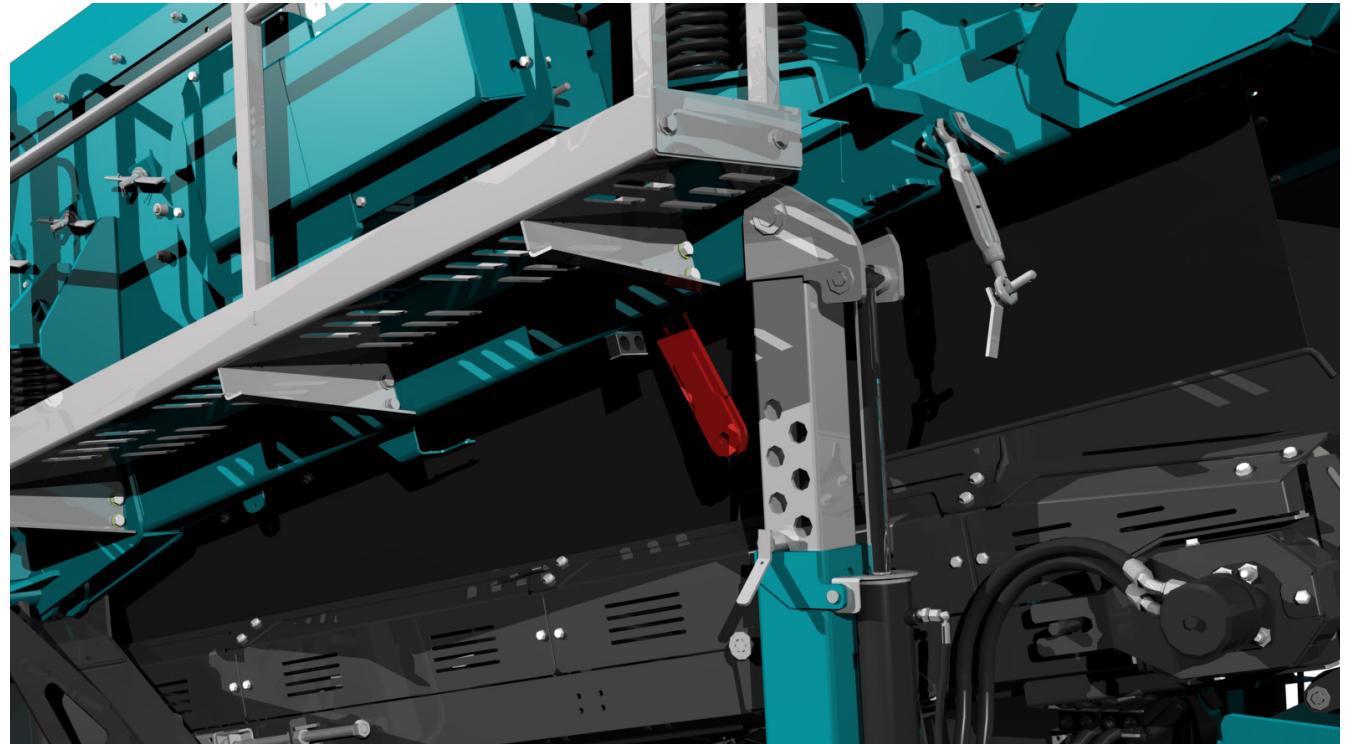
CONVEYORS

UNDERSCREEN CONVEYOR

1200mm (48") wide 3 ply plain belt
3.46m (11' 4") drum centres
Accessible via jack-up screen facility
Underside accessible with collection conveyor raise facility

OVERSIZE - TAIL CONVEYOR

1200mm (48") wide troughed 3 ply chevron belt
5.6m (18' 4") drum centres
Variable speed control
Hydraulic raise & lower
Impact bed along entire length
Hydraulically folding for transport
Angle adjustable 0° - 24°
3.9 m (12' 10") stockpile height
88m³ (115 cu. yd.) stockpile volume





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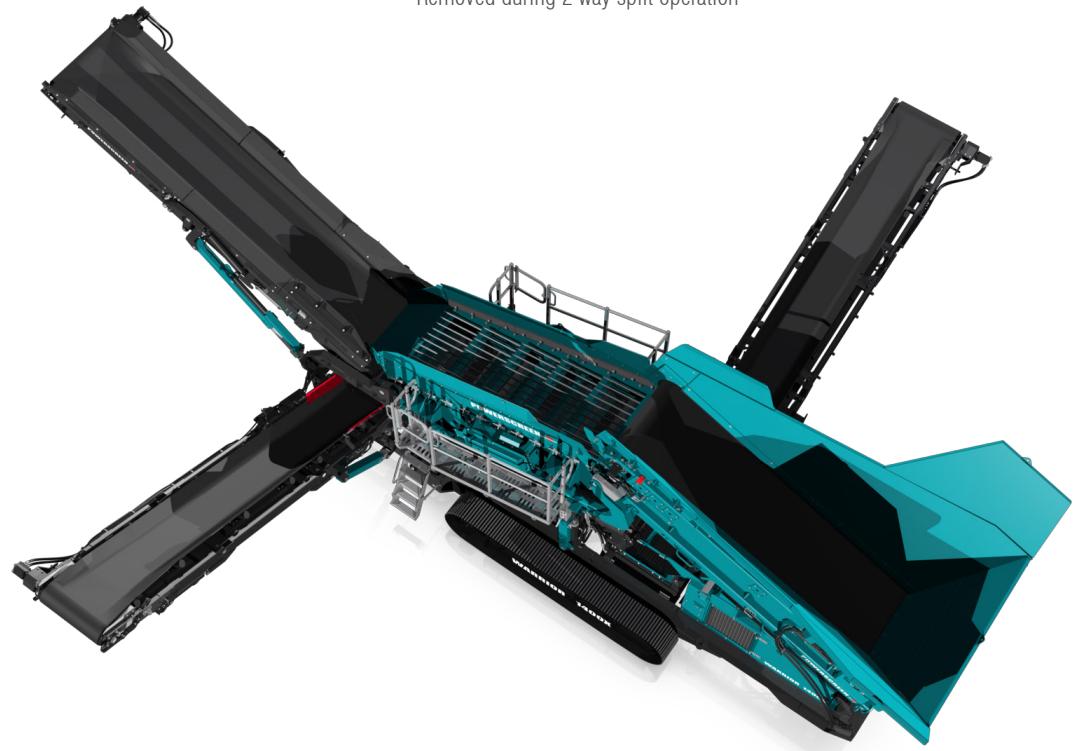
CONVEYORS

FINESIZE - SIDE CONVEYOR

900mm (36") wide 3 ply plain belt
7.79m (25' 7") drum centres
Impact bars under feedboot area
Deflector plate for optimum material travel
Hydraulically folding, angle adjustable
3.57m (11' 8") stockpile height
68m³ (89 cu. yd.) stockpile volume
4.2m (13' 9") stockpile height (extended)
110m³ (144 cu. yd.) stockpile volume (extended)

MIDSIZE - SIDE CONVEYOR

900mm (36") wide 3 ply plain belt
7.2m (23' 7") drum centres
Impact bars under feedboot area
Variable speed control
Hydraulically folding, angle adjustable
3.47m (11' 5") stockpile height
62m³ (81 cu. yd.) stockpile volume
4.1m (13' 5") stockpile height (extended)
103m³ (134 cu. yd.) stockpile volume (extended)
Removed during 2 way split operation





WARRIOR 1400X



POWER UNIT & HYDRAULICS

Engine Tier 3 Equivalent:

Caterpillar C4.4 - 4 Cylinder diesel

Performance:

90kW (121hp) @ 1800rpm

Engine Tier 4F:

Caterpillar C4.4- 4 cylinder diesel

Performance:

82kW (110hp) @ 1800rpm

Engine Stage V:

Caterpillar C4.4- 4 cylinder diesel

Performance:

98kW (131hp) @ 1800rpm

Tank Capacities:

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

Hydraulic oil: 450 L (119 US Gal)

Pumps:

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

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

Motors:

Belt feeder motors: Cast iron 125cc/rev

Tail conveyor: Cast iron 800cc/rev

Mid fines side conveyor: Cast iron 500cc/rev

Underscreen conveyor motor: Cast iron 500cc/rev

Fines conveyor motor: Cast iron 500cc/rev

Screen motor: Cast iron 56cc/rev

Optional apron feeder motor: Cast iron 400cc/rev





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⬇️ TRACKS

Track width: 400mm (1' 4")
Sprocket centres: 2955mm (9' 8")
Approximate speed: 0.9kph (0.56mph) (slow)
Approximate speed: 1.7kph (1.06mph) (fast)
Total flow per track: 70 Lpm





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OPTIONS

INCLINE APRON FEEDER

1000mm (3' 3") (Inside hopper width) wide wear resistant feed apron
Fitted with single gearbox drive
Variable speed control
4m (13' 1") apron centres
Increase in machine weight: + 1,956kg (4,290lbs)

300MM CHASSIS RISER

Machine chassis raised 300mm (1') to provide improved ground clearance and additional conveyor stockpiling capacity
Transport height: 3.5m (11' 6")
Increase in machine weight: + 615kg (1,355lbs)

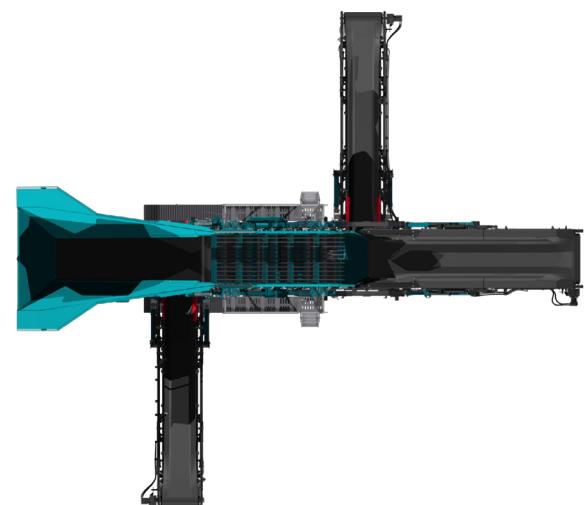
DUAL POWER

2 of electric motors: 37kW & 30kW
Diesel engine
Integrated control system managing diesel-hydraulic or electrical-hydraulic functions

Note: This option may alter transport dimensions and feed access.
Please contact engineering for detailed drawings and dimensions.

OTHER OPTIONS

- Custom colour machine
- Side conveyor telescopic hydraulic extensions
- Chevron side conveyor belts
- Hopper extensions (hydraulic fold & lock)
- Auto lubrication system
- Wear resistant hopper
- Quick release wedge screen tensioning (side tensioned only)
- Screen blanket
- Radio controlled tracking
- Hydraulic oil Grade 68





WARRIOR 1400X



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

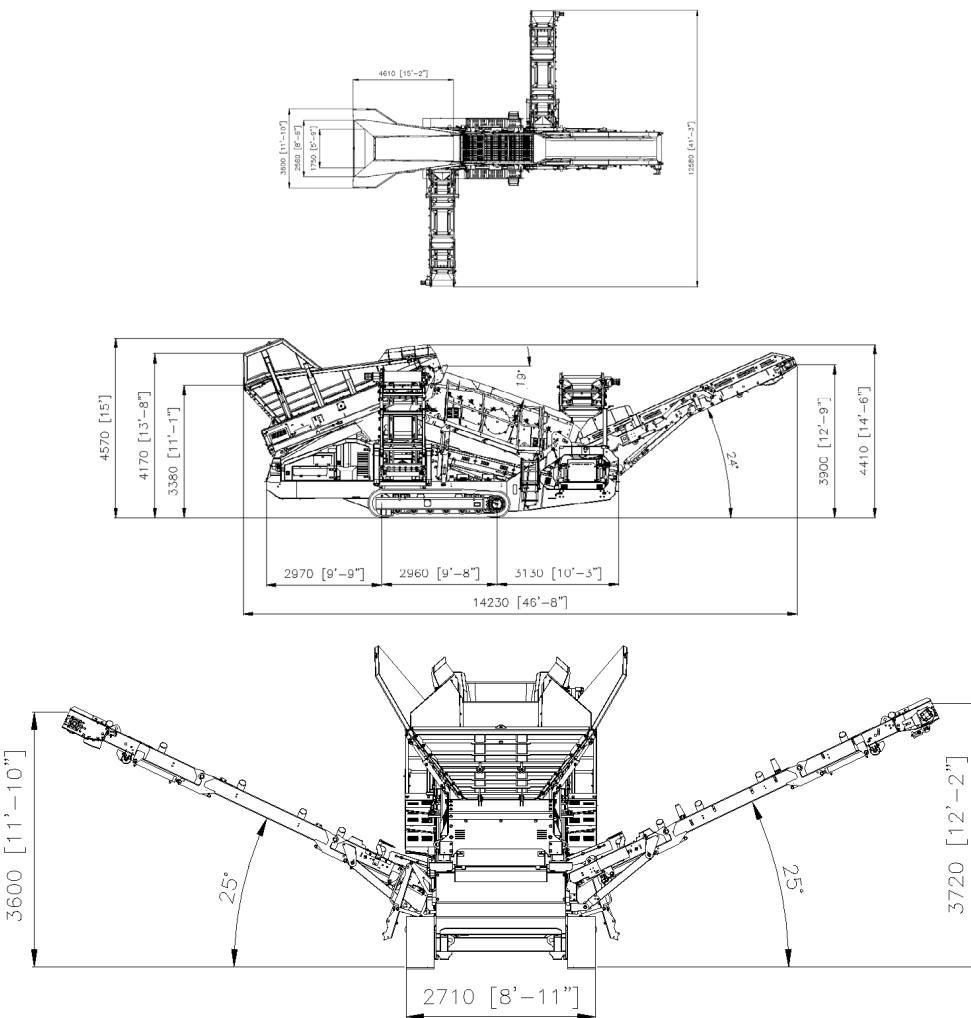


WARRIOR 1400X



DIMENSIONS

Figure 1: Warrior 1400X
Working Position



MORE DIMENSIONS OVERLEAF

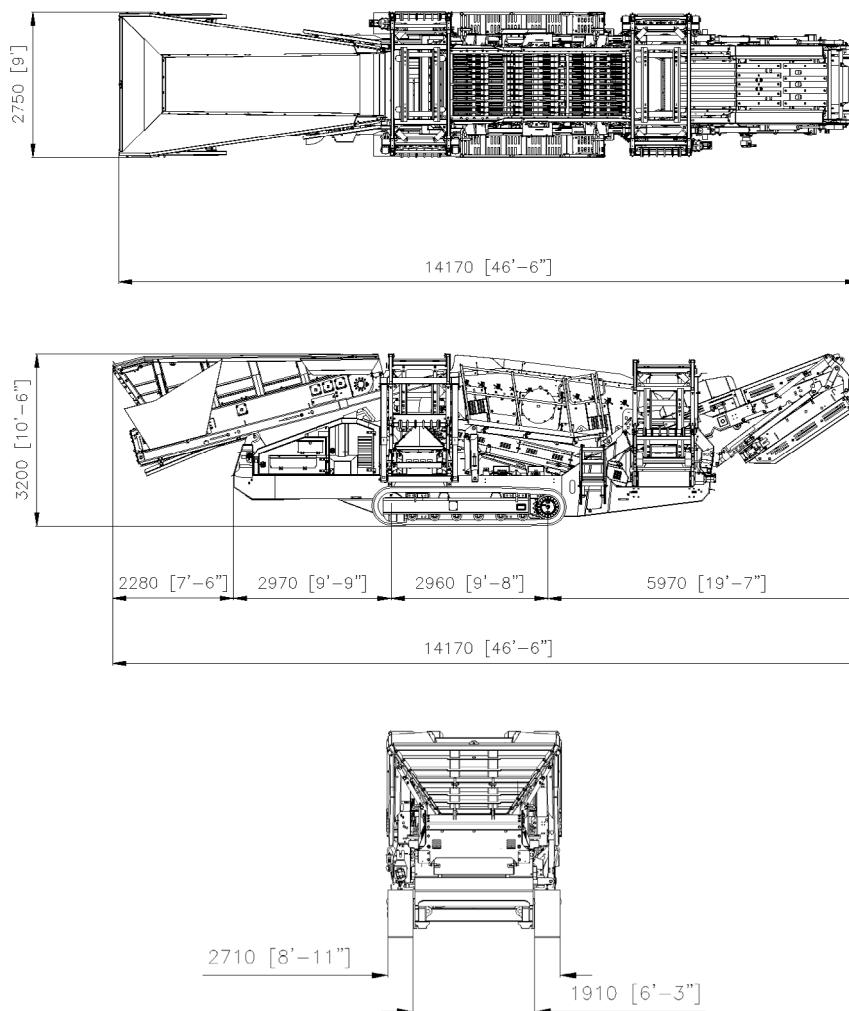


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DIMENSIONS

Figure 2: Warrior 1400X
Transport Position



MORE DIMENSIONS OVERLEAF

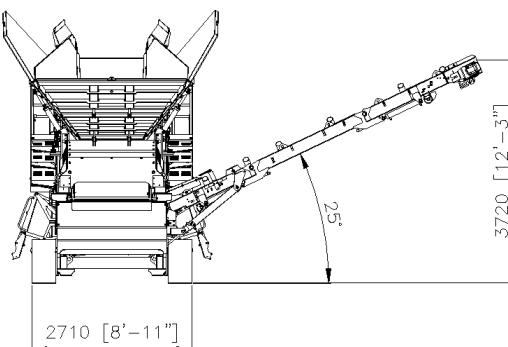
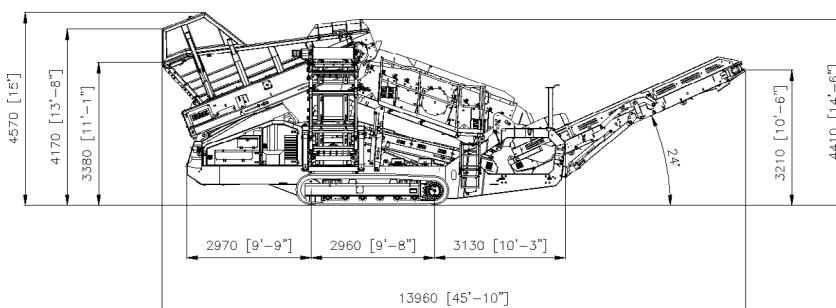
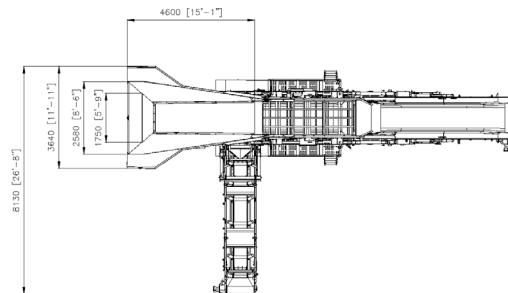


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DIMENSIONS

Figure 3: Warrior 1400X
2 Way Split
Working Position



MORE DIMENSIONS OVERLEAF

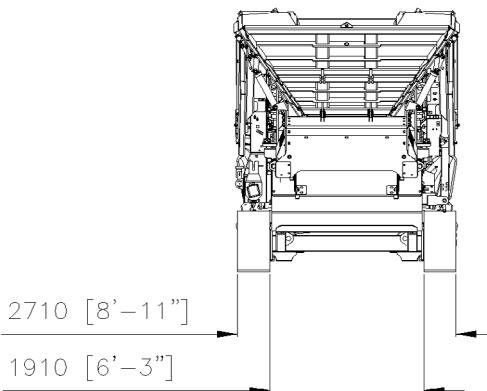
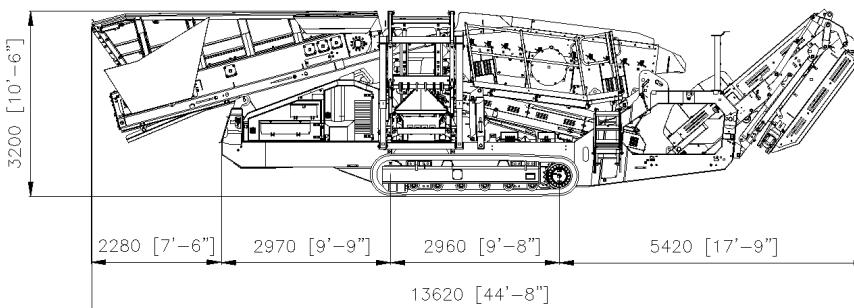
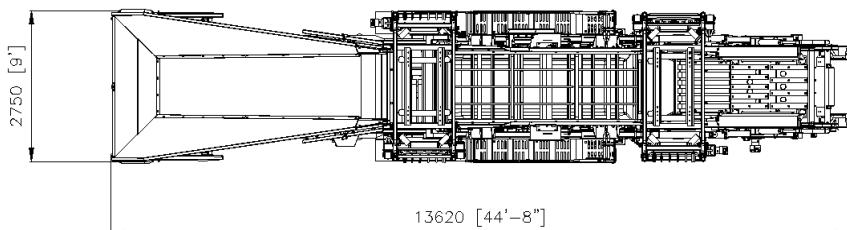


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DIMENSIONS

Figure 4: Warrior 1400X
2 Way Split
Transport Position



MORE DIMENSIONS OVERLEAF



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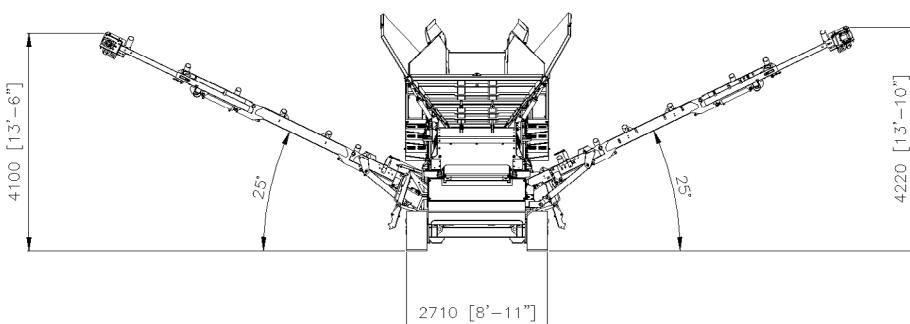
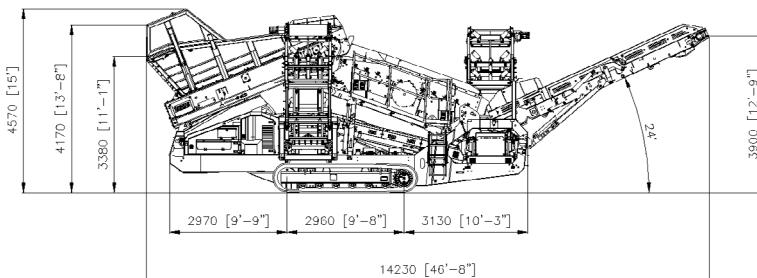
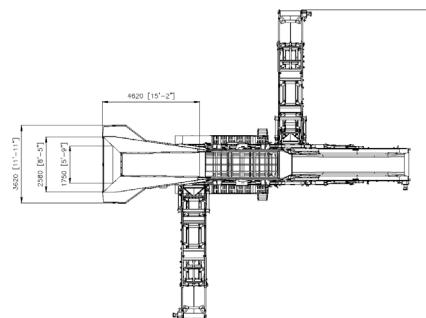


DIMENSIONS

Figure 5: Warrior 1400X

Telescopic Side Conveyors

Working Position



MORE DIMENSIONS OVERLEAF

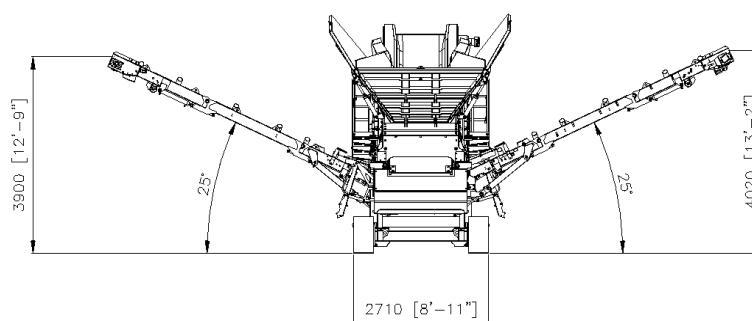
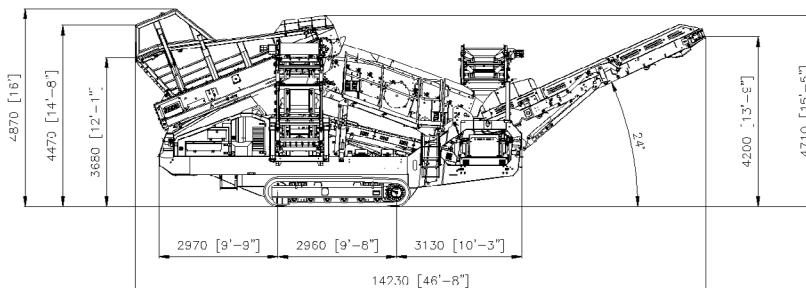
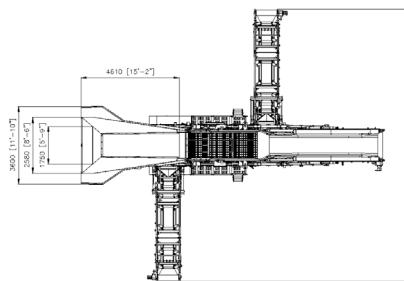


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DIMENSIONS

Figure 6: Warrior 1400X
300mm Chassis Riser
Working Position



MORE DIMENSIONS OVERLEAF

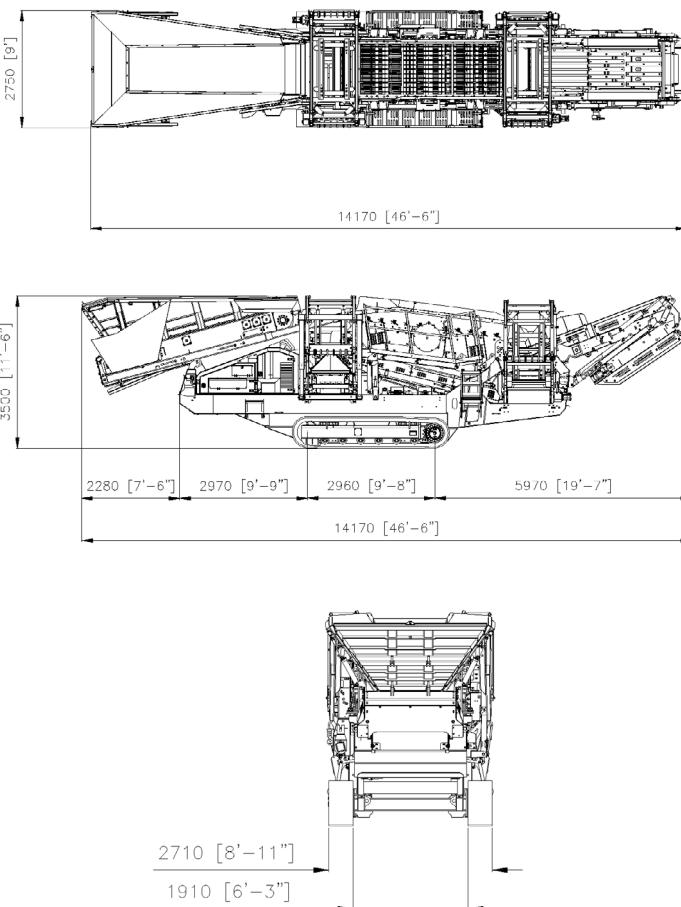


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DIMENSIONS

Figure 7: Warrior 1400X
300mm Chassis Riser
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.

GET IN TOUCH

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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

