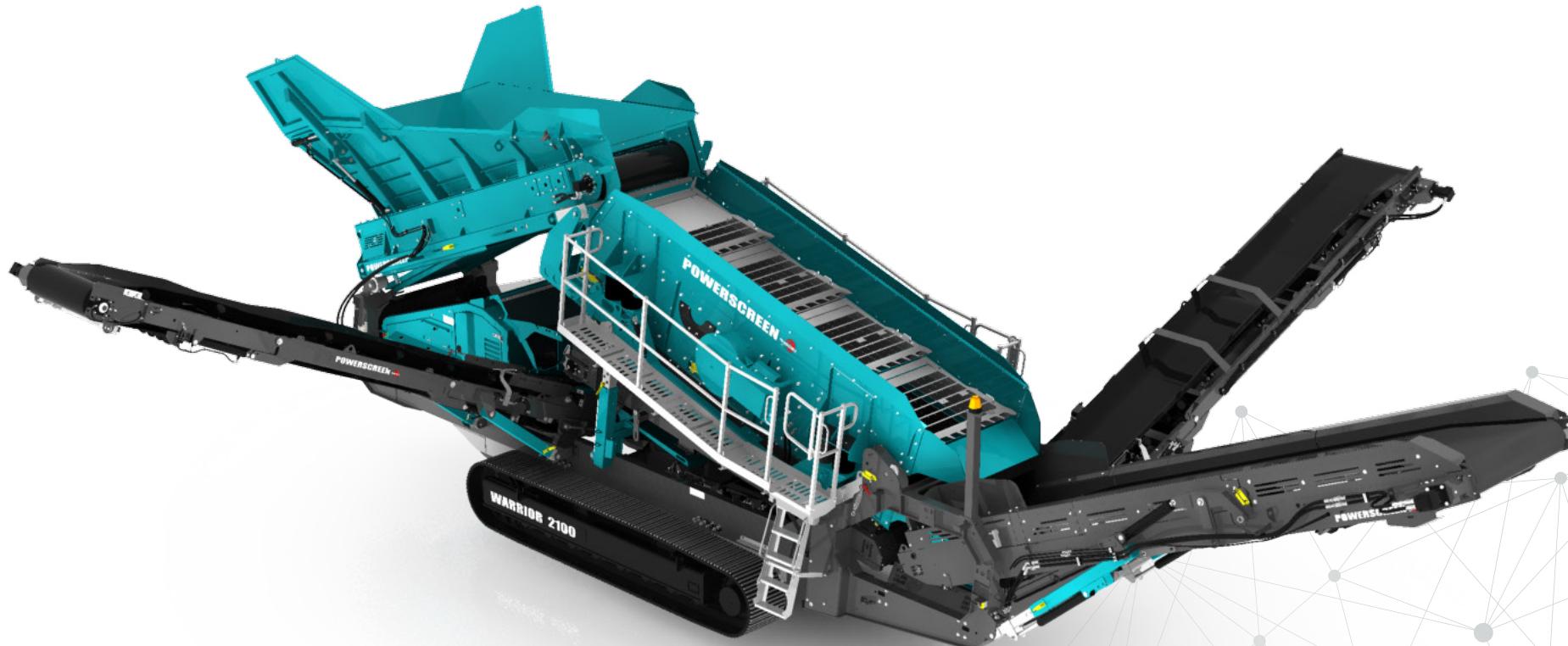


POWERSCREEN® WARRIOR 2100 - SINGLE SHAFT

2 DECK HEAVY DUTY INCLINE SCREEN



TECHNICAL SPECIFICATION - REV 5 01/02/2023





WARRIOR 2100 SINGLE SHAFT



OVERVIEW

SPECIFICATION

Total weight	34,860kg (76,853lbs)
Transport	Length 15.99m (52' 5") Width 3m (9' 10") Height 3.43m (11' 3")
Working	Length 16.26m (53' 4") Width 13.6m (44' 7") Height 4.68m (15' 4")
Screenbox	4.88m x 1.56m (16' x 5' 1")
Power Unit	Diesel / Hydraulic
Plant Colour	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 triple shaft screenbox or 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 2100 SINGLE SHAFT



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

Hydraulic slide & raise facilities for transport

Feed in height: (side) 3.89m (12' 9")

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

Feed in height: (collapsed hopper) 3.03m (9' 11")





WARRIOR 2100 SINGLE SHAFT



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 1.55m (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





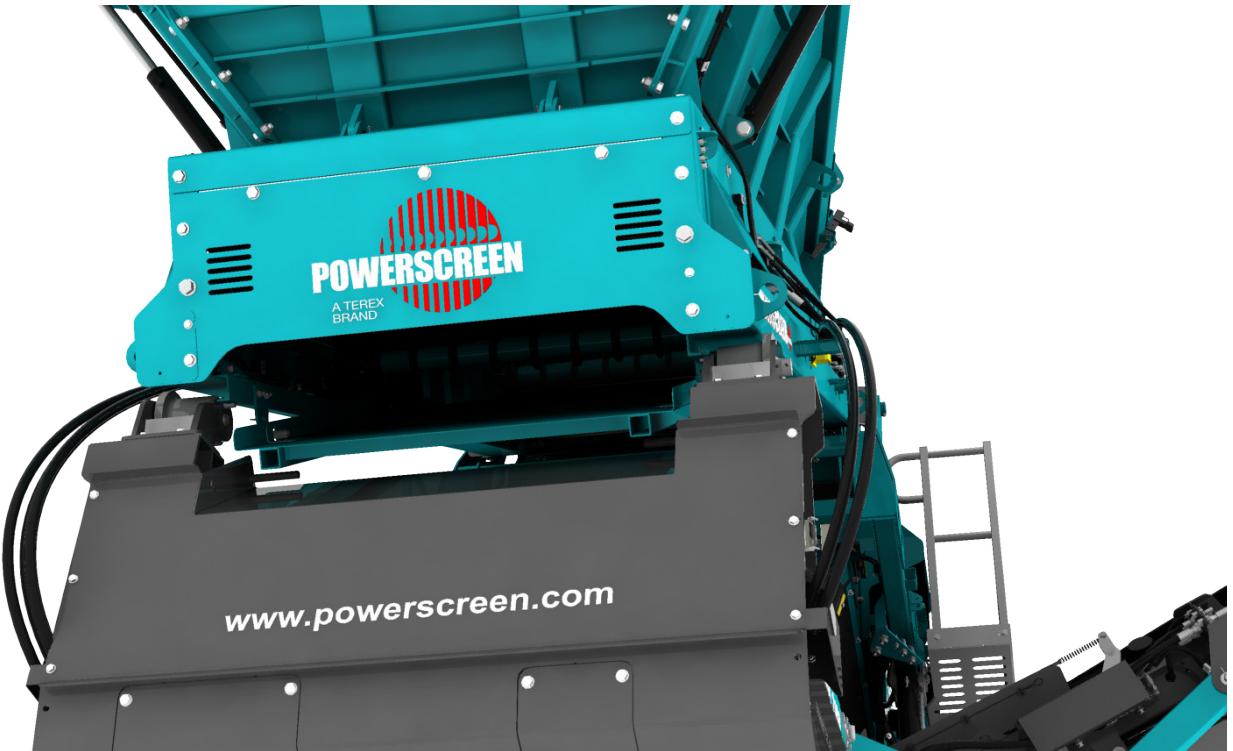
WARRIOR 2100 SINGLE SHAFT



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 2100 SINGLE SHAFT



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

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
110m³ (144 cu. yd.) stockpile volume





WARRIOR 2100 SINGLE SHAFT



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
3.93m (12' 11") stockpile height
90m³ (118 cu. yd.) stockpile volume
4.36m (14' 4") stockpile height (extended)
123m³ (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
3.67m (12') stockpile height
73.5m³ (96 cu. yd.) stockpile volume
4.09m (13' 5") stockpile height (extended)
102m³ (133 cu. yd.) stockpile volume (extended)
Removed during 2 way split operation





WARRIOR 2100 SINGLE SHAFT



POWER UNIT & HYDRAULICS

Engine Tier 3 Equivalent:

Caterpillar C4.4 - 4 cylinder diesel

Performance:

97kW (130hp) @ 1800rpm

Engine Tier 4F:

Caterpillar C4.4 - 4 cylinder diesel

Performance:

98kW (131hp) @ 1800rpm

Engine Stage V:

CAT 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 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 2100 SINGLE SHAFT



TRACKS

Track width: 500mm (1' 8")

Sprocket centres: 3840mm (12' 7")

Two speed tracking system

Approximate speed: 0.8 Km/hr (0.5mph) (slow)

Approximate speed: 1.4 Km/hr (0.87mph) (fast)

Gradeability: 33.9°

Total flow per track: 64Lpm

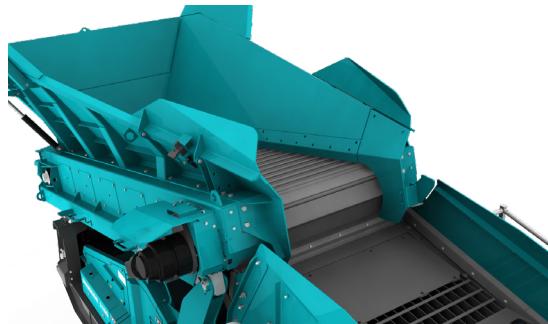




WARRIOR 2100 SINGLE SHAFT



OPTIONS



INCLINE APRON FEEDER

1000mm (3' 3" inside hopper width) wide wear resistant apron
Fitted with single gearbox drive
Variable speed control
4m (13' 1") apron centres
Increase in machine weight: +2,000kg (4,409lbs)



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 2100 SINGLE SHAFT



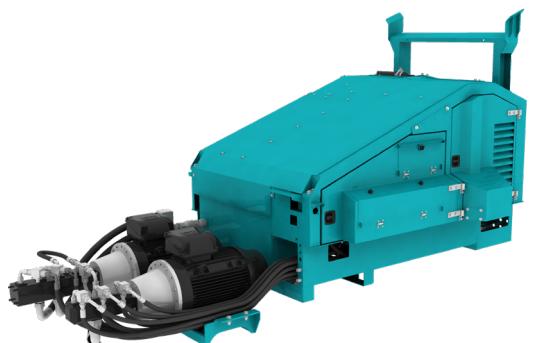
OPTIONS



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 punch plate to deliver a controlled material size onto the bottom deck.

Maximum feed size = 400mm (1' 4")



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.

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 2100 SINGLE SHAFT



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

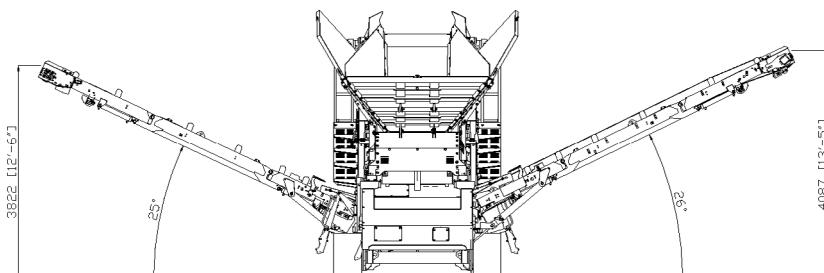
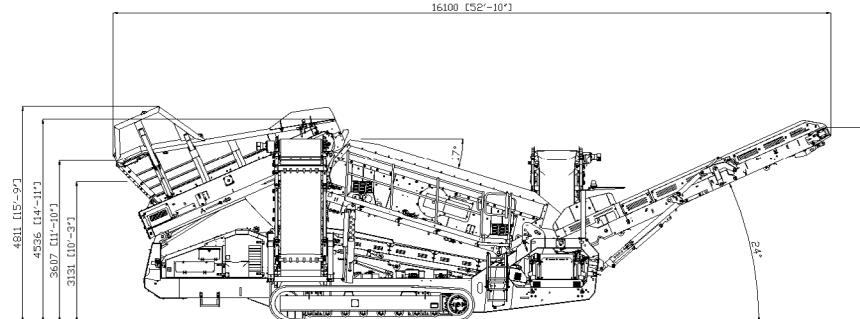
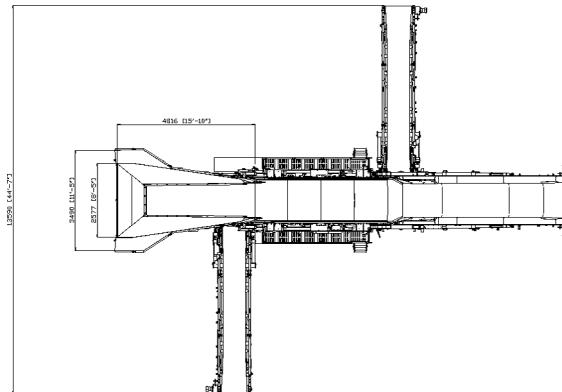


WARRIOR 2100 SINGLE SHAFT



DIMENSIONS

Figure 1: Warrior 2100 Single Shaft
Working Position



MORE DIMENSIONS OVERLEAF

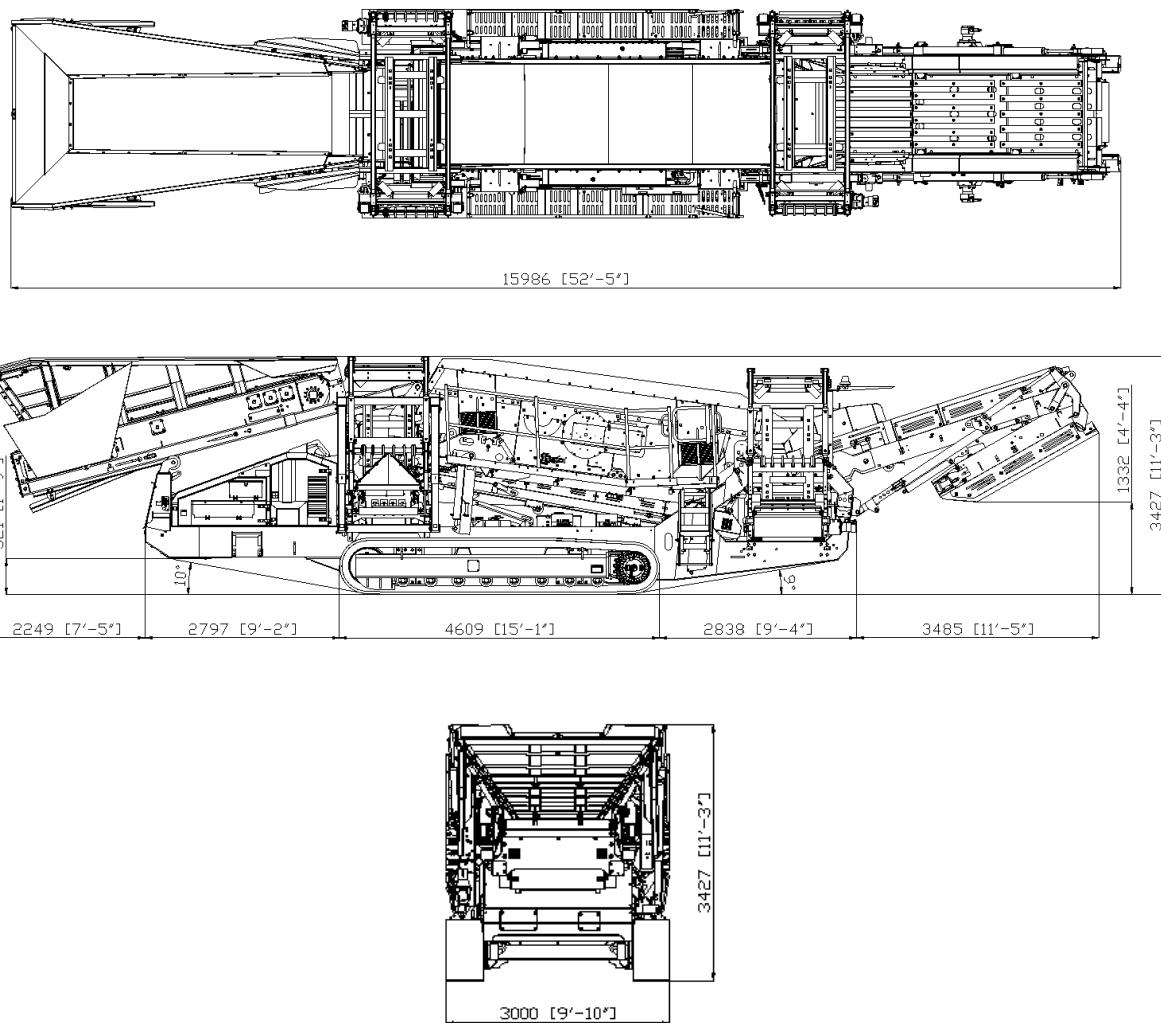


WARRIOR 2100 SINGLE SHAFT



DIMENSIONS

Figure 2: Warrior 2100 Single Shaft
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

Dungannon

200 Coalisland Road, Dungannon,
Co Tyrone, BT71 4DR, Northern Ireland
Tel: +44 (0) 28 87 718 500
Fax: +44 (0) 28 87 747 231

Louisville

11001 Electron Drive,
Louisville, Kentucky, 40299 USA
Tel: +1 502 736 5200
Fax: +1 502 736 5202



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

