

Powerscreen[®] Chieftain 600

2 Deck Incline Screen

Specification - Rev 5. 06/06/2011



Specification

		Hopper (with grid) wheel	Hopper (with grid) track
Total weight		14,000kg (30,865lbs)	15,200kg (33,510lbs)
Transport	Length	12.41m (40' 8")	12.45m (40' 10")
	Width	2.67m (8' 9")	2.75m (9' 0")
	Height	3.33m (10' 11")	3.3m (10' 9")
Working	Length	13.58m (44' 7")	13.58m (44' 7")
	Width	11.29m (36' 8")	11.2m (36' 8")
	Height	4.76m (15' 6")	4.5m (14' 9")
Screenunit		2.44m x 1.22m (8' x 4')	2.44m x 1.22m (8' x 4')
Powerunit		Diesel / Hydraulic	Diesel / Hydraulic
Plant Colour		RAL 5021	RAL 5021

Features & Benefits

- § High capacity up to 200 tph (depending on feed size, mesh size & material type)
- § Maximum feed size 150mm
- § Engine protection shutdown system
- § Powerunit featuring a transverse engine arrangement to aid access & serviceability
- § Heavy duty single shaft incline screenbox with adjustable stroke, angle & speed
- § Hydraulic screen tensioning (optional)
- § Screen mesh access system for quicker mesh changes
- § Maximum mobility with heavy duty, low ground pressure crawler tracks
- § Removable heavy duty pendant remote control system
- § Quick set up time
- § High performance hydraulic system - cast iron pumps & motors complete with hydraulic cooler
- § Low profile double deck vibrating grid option with radio remote control tipping grid rams, angle adjustable & fully riveted construction
- § Hydraulically folding conveyors for transport
- § Fines conveyor drop down facility to aid bottom deck mesh access

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

Abbreviations: T=Track, W=Wheel, Std= Standard, Hyd= Hydraulic, W/O= Without, C/W= Complete with
 EXT= Extended, DDVG= Double deck vibrating grid, Inc= Including, Aux= Auxiliary,
 Conv= Conveyor

All specifications subject to change without prior notice



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Hopper & Grid

Grid opening: 2.95m (9' 8") x 1.46m (4' 9")
Target area: 3.9m (12' 9") long x 1.75m (5' 8") wide
Grid aperture: 102mm (4")
Grid aperture: 152mm (6") (option)

Hopper capacity: 7.0m³ (9.2 cu. yd.)
Hopper capacity direct feed: 4.6m³ (6.0 cu. yd.)
Adjustable angle tipping grid with integral loading & wing plates

Feed in height: 3.45m (11' 3") with grid
Feed in height: 2.82m (9' 3") with out grid



Feed Conveyor

800mm (32") 3 ply plain belt
2.94m (9' 7") drum centres
286mm (12") drum diameter (drive)
270mm (11") drum diameter (tail)

Twin motor direct drive
Variable speed control



Main Conveyor

800mm (32") 3 ply plain belt
7.2m (23' 7") drum centres
286mm (11.5") drum diameter (drive)
270mm (10.5") drum diameter (tail)

Fully skirted & sealed
Twin motor direct drive
Variable speed control



Screenbox

2.44m x 1.22m (8' x 4') 2 deck incline screen
Grease filled 4 bearing screenbox

End tensioned decks
Hydraulic screen angle adjustment: 25° - 35°
Hydraulic screen tensioning (optional)
Galvanised maintenance platforms

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Finesize - Tail Conveyor

1050mm (42") wide 2 ply plain belt
4.8m (15' 9") drum centres
216mm (8.5") drum diameter (drive)
200mm (8") drum diameter (tail)

3.3m (10' 9") stockpile height (to drum centre) T
54m³ (71 cu. yd.) stockpile volume

3.54m (11' 7") stockpile height (to drum centre) W
66m³ (86 cu. yd.) stockpile volume

Hydraulically folding for transport only

Chevron belt as option

Fixed speed

Fixed angle: 24°



Midsize & Oversize Side Conveyors

650mm (26") wide 3 ply chevron belt
6.4m (21') drum centres
236mm (9") drum diameter (drive)
200mm (8") drum diameter (tail)

3.44m (11' 3") stockpile height (to drum centre) T
61m³ (80 cu. yd.) stockpile volume

3.64m (11' 11") stockpile height (to drum centre) W
72m³ (94 cu. yd.) stockpile volume

Variable speed control on each conveyor

Hydraulic folding for transport

Fixed angle: 24°



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Powerunit & Hydraulics

Engine:

Deutz 2011 4 cylinder diesel

Performance:

49.4 kW (66.2hp) @ 2200rpm

Tank Capacities:

Fuel: 145 L (37.7 US Gal)

Hydraulic oil: 500 L (130 US Gal)

Pumps:

Flywheel pump: Cast iron triple pump 27cc/rev

Motors:

Belt feeder: Cast iron 160cc/rev

Main conveyor: Cast iron 500cc/rev

Tail conveyor: Cast iron 400cc/rev

Side conveyors: Cast iron 315cc/rev

Screen: Cast iron 51.8cc/rev



Crawler Track Data

Track width: 500mm

Output torque: 13,149 Nm

Gradability degrees: 23.1°

Gearbox ratio: 1:102.6

Hydraulic motor: 45cc/rev

Approximate speed: 1.2kph (0.75mph)



Road Transport

Wheels: 285 / 70 R19.5

Axle: Approved braking axle

Suspension: Leaf springs

Brakes: Air brakes, (ABS optional)

Mudguards: Plastic type

Lateral protection: Optional extra

Lights: Optional extra

Shredder Option

Motor: Cast iron motor 51.8cc/rev

Circuit: Coupled to feeder conveyor circuit

Other Options

Different coloured machine

Reject grid:

Grid aperture: 150 mm (6")

Double Deck vibrating grid:
c/w bofor grid 90 - 110mm (3.75" - 4.25")
aperture

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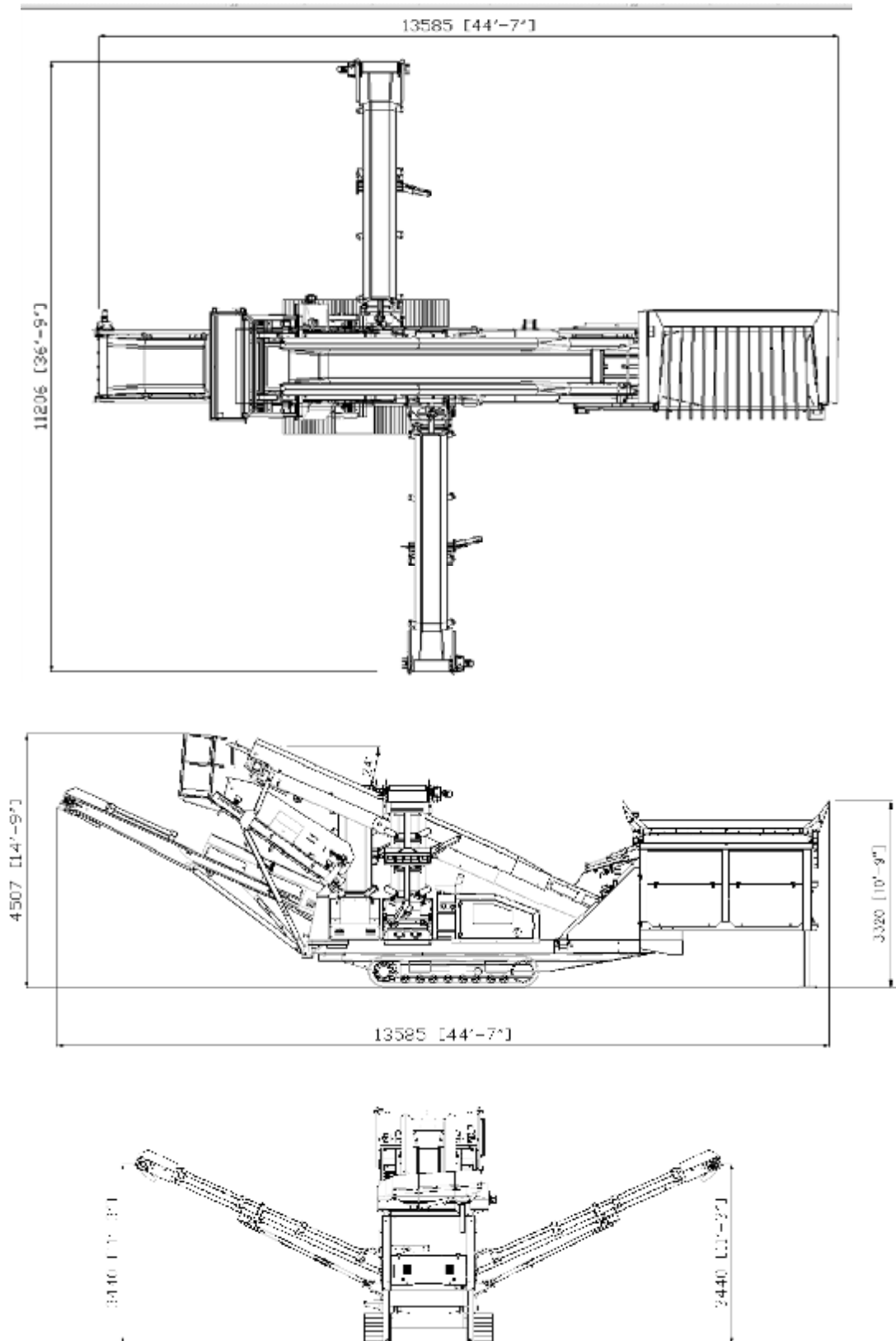


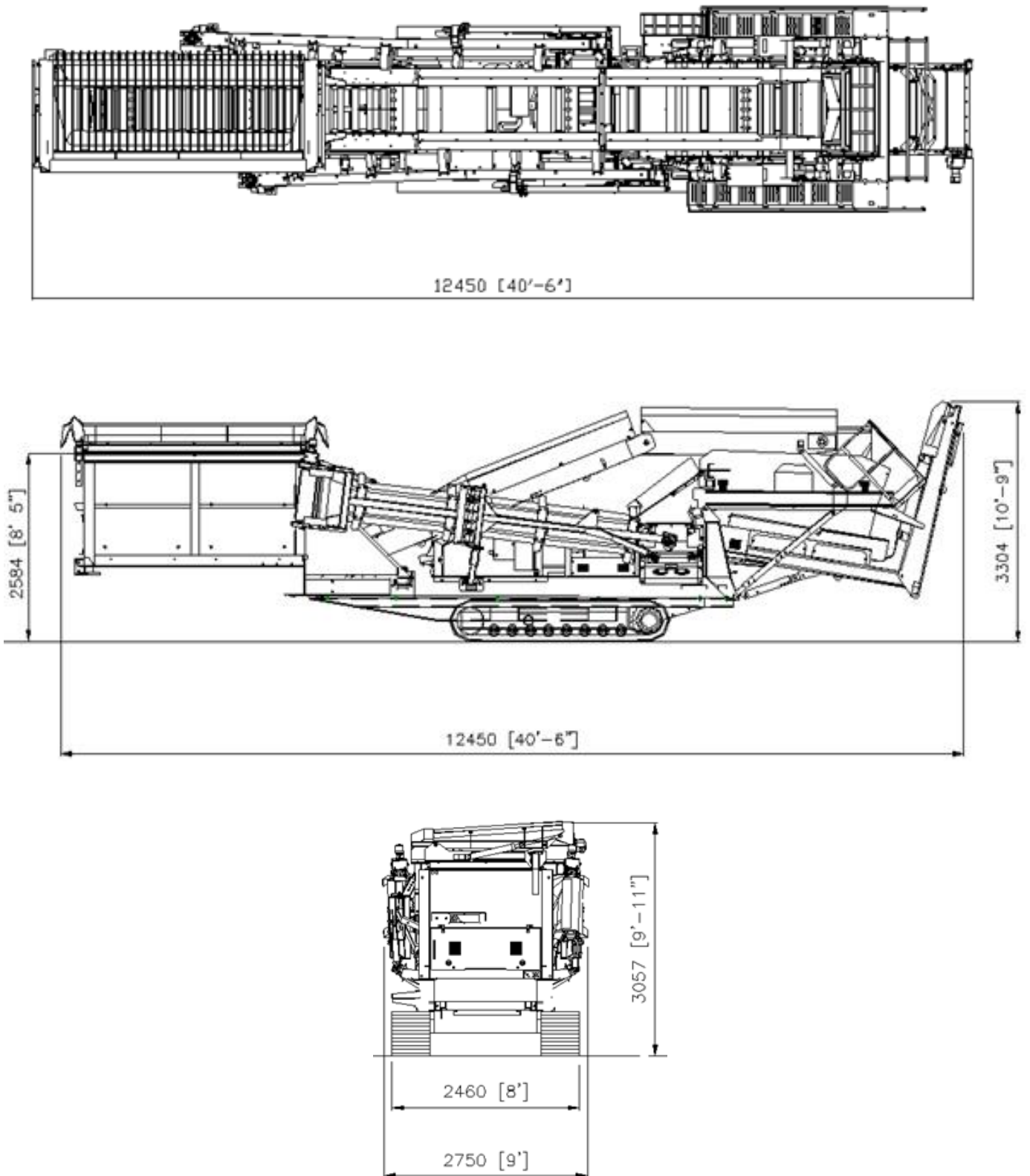
Figure 1: Chieftain 600 2 Deck Track Working Position

All specifications subject to change without prior notice



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**Figure 2: Chieftain 600 2 Deck Track
Transport Position**

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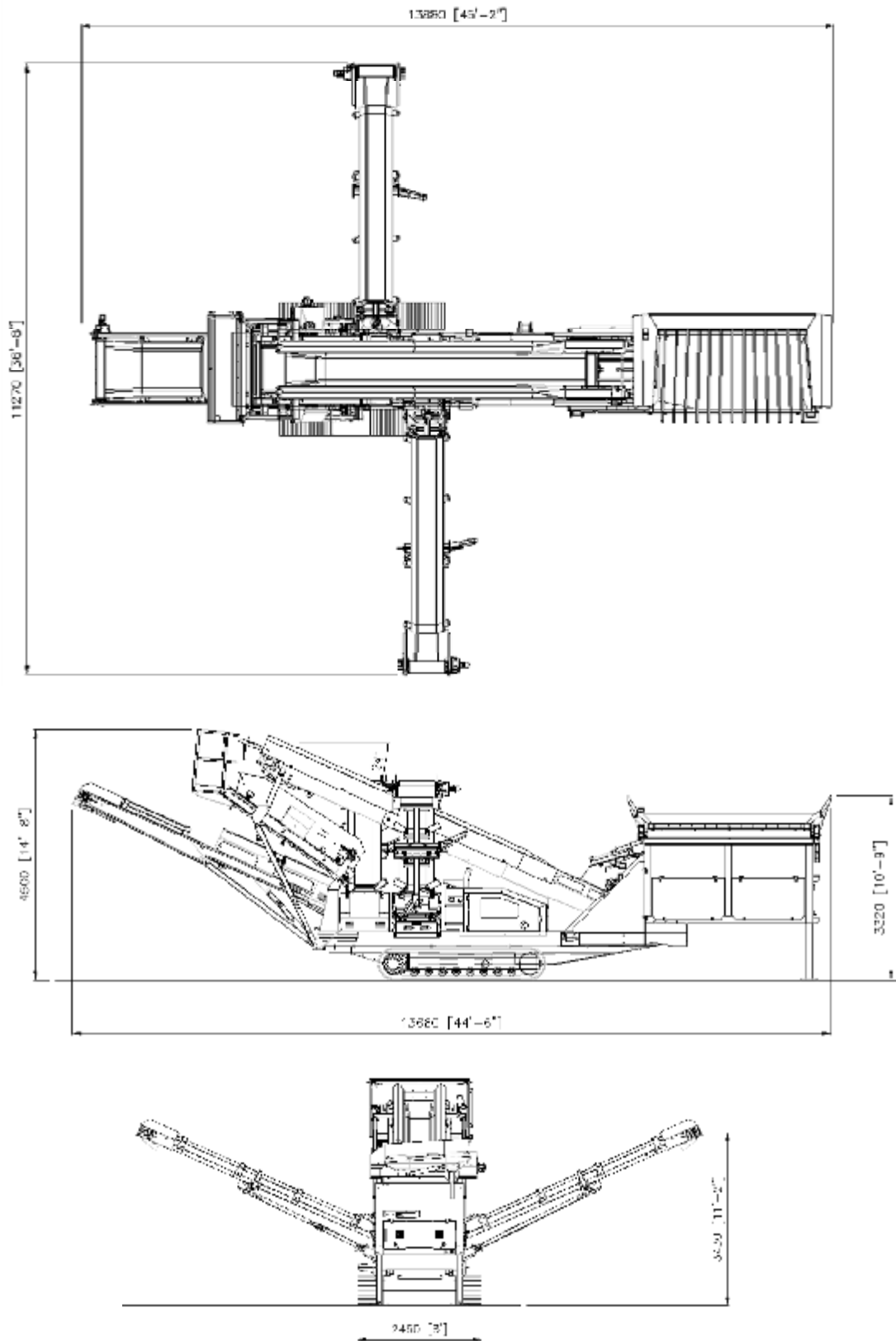


Figure 3: Chieftain 600 2 Deck Wheel Working Position

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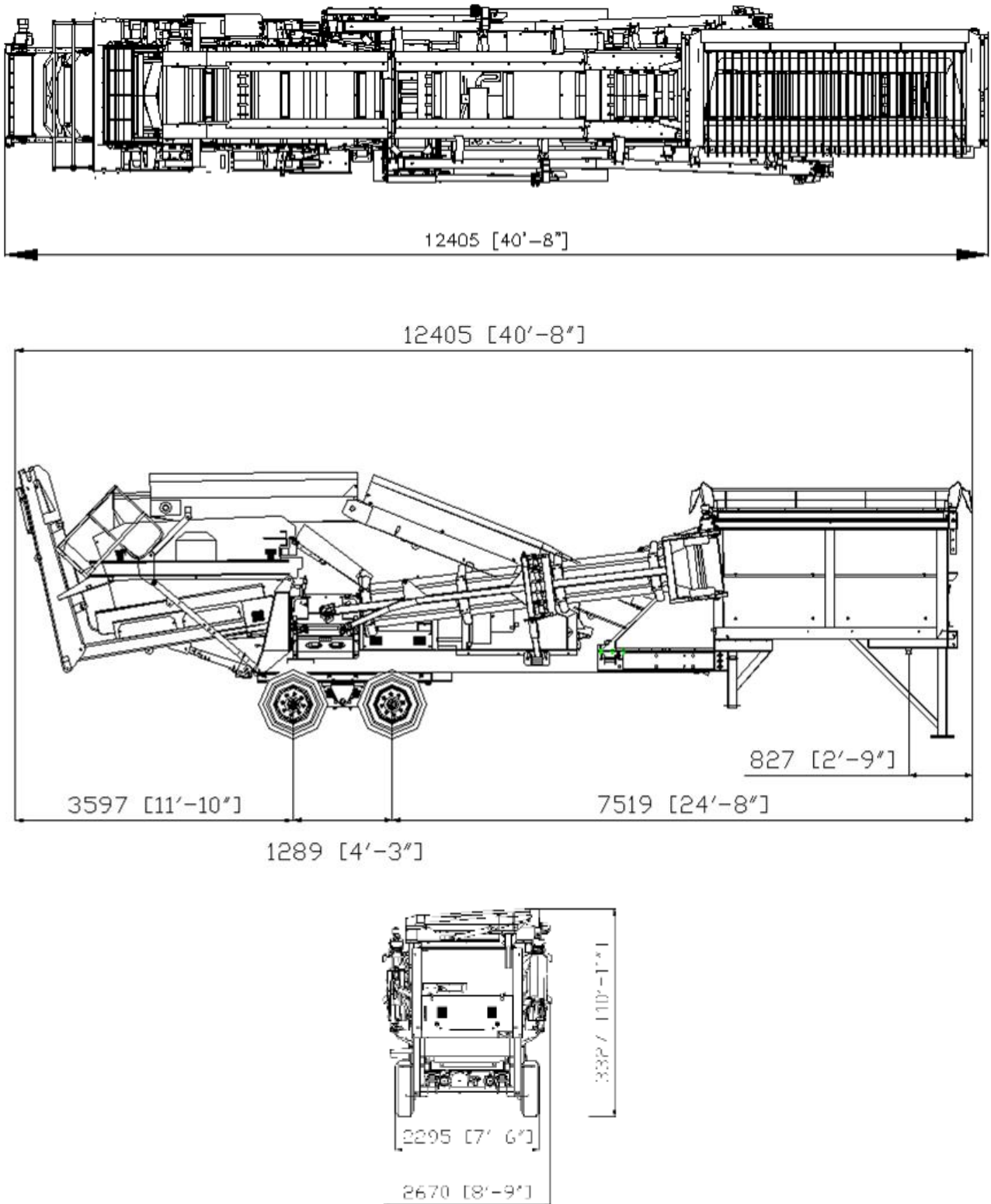


Figure 4: Chieftain 600 2 Deck Wheel Transport Position

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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.

Terex GB Ltd.
200 Coalisland Road
Dungannon
Co. Tyrone
Northern Ireland
BT71 4DR

Tel: +44(0) 28 8774 0701
Fax: +44(0) 28 8774 6569

E-Mail: sales@powerscreen.com
Web: www.powerscreen.com

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