

# POWERSCREEN® 1300X MAXTRAK

CONE CRUSHER



TECHNICAL SPECIFICATION - REV 2 01/08/2024





## 1300X MAXTRAK CONE



# OVERVIEW

## SPECIFICATION

<b>Total Weight</b>	51,500kg (113,538lbs) (No Options) 51,775kg (114,144lbs) (Ext Conv)
<b>Transport</b>	<b>Length</b> 17.92m (58' 10") <b>Height</b> 3.8m (12' 6") <b>Width</b> 3.0m (9' 10")
<b>Working</b>	<b>Length</b> 16.8m (55' 1") <b>Height</b> 4.89m (16') <b>Width</b> 3.65m (12')
<b>Crusher Type:</b>	TC1300X Terex Crusher
<b>Power Unit</b>	Caterpillar C15 403kW (540hp) or Scania DC13 405kW (550hp)
<b>Paint Colour</b>	RAL 5021, RAL 7024, RAL 9005

## FEATURES & BENEFITS

The Powerscreen® 1300X Maxtrak is a medium to large sized track mobile cone crusher, ideally suited to secondary applications such as taking an all in feed from a primary crusher. Based around the 1300X Terex cone crusher, the plant excels in the production of sub-base or aggregates, providing excellent cubicity, throughput & reduction ratios.

- Output potential of up to 500 tph / 551 US tph - depending on feed material & crusher settings
- Renowned Automax® crusher technology
- Excellent product shape
- High reduction ratio
- Cone feed box level control to maintain choke feeding
- Hydraulic crusher setting
- Cone overload protection
- Metal detector
- Dust suppression system
- Economical to operate with a highly fuel efficient direct drive system
- Heavy duty fabricated chassis & track frame
- Remote control via umbilical
- Hydraulic folding and locking from ground level
- Remote control via radio/umbilical as standard
- Quick release removal of feed box
- Powerscreen Pulse telemetry as standard
- Excellent access to all components for maintenance

## APPLICATIONS



### Aggregate

Sand & gravel  
Blasted rock  
River rock



### Recycling

C&D waste  
Foundry waste



### Mining

Processed ores  
Processed minerals



## 1300X MAXTRAK CONE



# CONE CRUSHER

**Crusher type:**

TC1300X Terex Crusher

**Liners:**

18% Manganese as standard, other options available

**Standard concave:**

Medium Coarse (MC)

**Maximum feed sizes:**

- Medium Coarse: 220mm

**Lubrication:**

Pumped system having a chassis mounted lube tank with air blast cooler

**Adjustment:**

Hydraulic setting adjustment, automatic overload release & hydraulic unblocking

**Control:**

2 Operating modes available:

- Autoset Mode: fixed parameters
- Maxset Mode: load sensing, parameters auto adjust & maximise performance

**Concave option:**

Fine (F), Extra-Coarse (EC)

- Extra Coarse: 260mm

- Fine: 65mm





## 1300X MAXTRAK CONE



## HOPPER

**Hopper type:** Fixed, tapered hopper to aid material flow

**Hopper length:** 3.5m (11' 6") (standard)

**Hopper width:** 2.25m (7' 5") (standard)

**Feed Height:** 3.07m (10" 11')

**Hopper capacity:** Up to 6m<sup>3</sup> (7.8 cu. yd.)(standard)

**Hopper body:** Fabricated in 10mm thick wear resistant steel plate, with internal crash bars to minimise impact load on the feed conveyor





## 1300X MAXTRAK CONE



# FEED CONVEYOR

**Conveyor type:** Flat troughed belt, variable speed

**Design:** Raise & lower hydraulically for transport, operation & crusher maintenance

**Belt type:** EP630/4 with 6mm top & 2mm bottom heavy-duty rubber covers, vulcanised joint

**Drum Centres:** 6275mm (20' 7")

**Belt adjustment:** Screw adjustment at the tail shaft

**Belt width:** 1300mm (52")

**Drive:** Hydraulic drive via gearbox

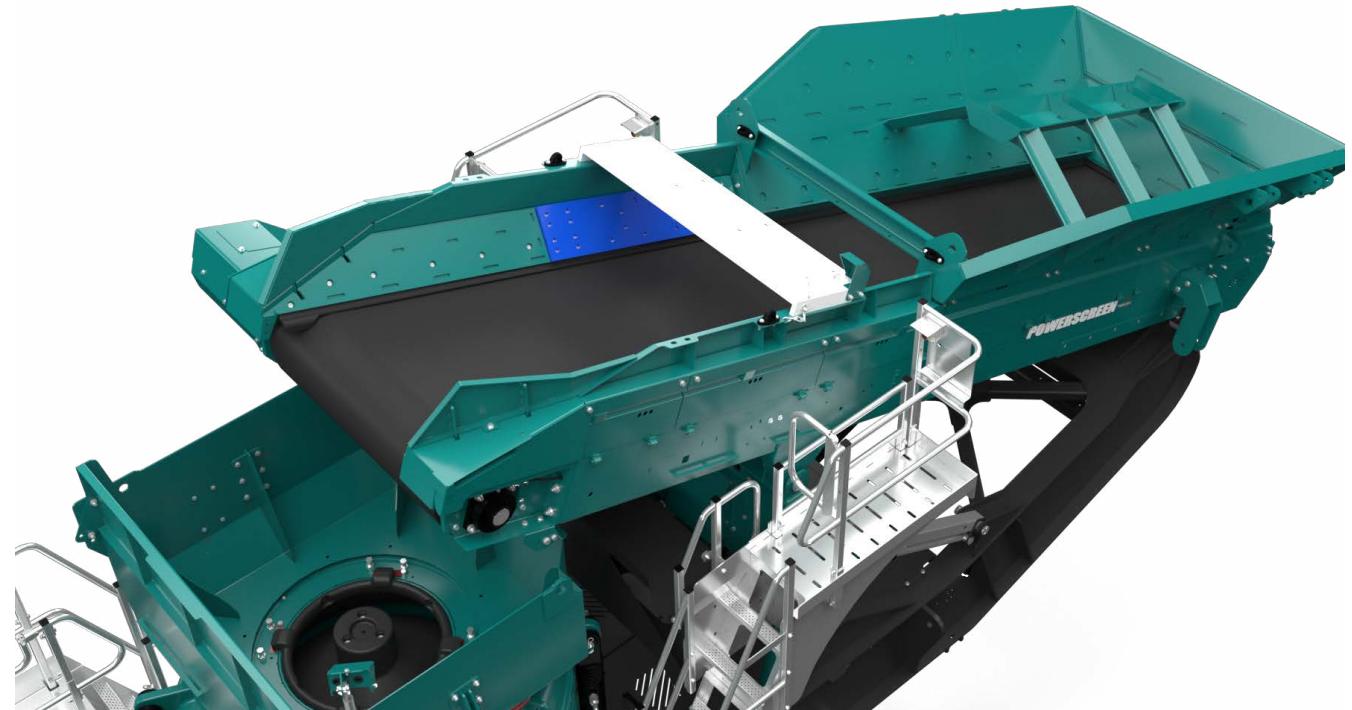
**Impact rollers:** Below feed hopper

**Metal detector:** Suitable for detecting steel & manganese, complete with audible warning device & connected to stop the feed conveyor

**Barge boards:** Extend from the feed conveyor to the conveyor head

**Lubrication:** Oil lubricated head drum gearbox. Grease nipples for lubrication of shaft bearings

**Level probe:** Crusher feed ring fitted with level probe designed to regulate & constantly choke feed the crusher





## 1300X MAXTRAK CONE



# PRODUCT CONVEYOR

<b>Conveyor type:</b>	Troughed belt. Fixed speed conveyor with hydraulic drive
<b>Belt type:</b>	EP500/3 with 5mm top & 1.5mm bottom heavy duty rubber covers, vulcanised joint
<b>Belt width:</b>	1100mm (44")
<b>Drum Centres:</b>	10826mm (35' 6")
<b>Extended:</b>	12320mm (40' 5")
<b>Discharge height:</b>	3.6m (11' 10") (Standard) 4.2m (13' 9") (Optional)
<b>Stockpile volume:</b>	86m <sup>3</sup> (112 cu. yd.) (Standard) 136m <sup>3</sup> (177 cu. yd.) (Optional)
<b>Impact bars:</b>	Fitted below the crusher outlet
<b>Skirting:</b>	Fully skirted rubber sealing along the conveyor length
<b>Drive:</b>	Direct drive hydraulic motor
<b>Belt covers:</b>	Removable aluminium covers fitted over the exposed section of the conveyor (optional)
<b>Belt adjustment:</b>	Screw adjustment at the head drum
<b>Lubrication:</b>	Grease nipples for lubrication of shaft bearings
<b>Speed sensor:</b>	Designed to stop plant feed when discharge conveyor stops

## DUST SUPPRESSION SYSTEM

Spray bars with atomiser nozzles are mounted over the crusher mouth, product conveyor feed & discharge points. Piped to an inlet manifold	
Type:	Clean water atomising nozzles
Inlet:	Single point on chassis
Pressure required:	2.8 bar (42 psi)
Frost protection:	Via system drain valves
Pump:	Optional extra





## 1300X MAXTRAK CONE



# POWER UNIT & HYDRAULICS

### Tier 3 Equivalent:

#### Operating conditions:

Caterpillar C15 403 kW (540hp)

Ambient temp. +30°C to -5°C (86°F to 23°F) at altitudes up to 2000m (6562ft) above sea level

- For applications outside this range please consult with Powerscreen as the plant performance / reliability may be affected.

1650 - 1850rpm

High quality pumps driven via engine PTOs

1000 L (264 US Gal)

### Operating rpm range:

### Plant drive:

### Fuel tank capacity:

### Tier 4F/ Stage V:

#### Operating conditions:

Scania DC13, 405 kW (550hp)

Ambient temp. +30°C to -5°C (104°F to 10°F) altitudes up to 2000m (6562ft) above sea level

- For applications outside this range please consult with Powerscreen as the plant performance / reliability may be affected.

1650 - 1850rpm

Emission control technique: Selective Catalytic Reduction (SCR)

### Reductant tank size:

60 L (16 US Gal)

### Plant drive:

High quality pumps driven via engine PTOs

### Fuel tank capacity:

1000 L (264 US Gal)

### Hydraulic tank capacity:

660 L (174 US Gal)

### Cone lube oil tank capacity:

275 L (72 US Gal)

### Crusher drive:

Direct drive via wedge belts

### Crusher drive tensioning:

Manually adjustable tensioners

### Clutch type:

PT Tech 14" Wet Clutch





## 1300X MAXTRAK CONE



## TRACKS

**Type:** Heavy duty bolt on tracks

**Sprocket centres:** 3800mm (12' 6")

**Track width:** 500mm (1' 8")

**Gradeability:** 25° maximum

**High speed:** 1.2kph (0.7mph)

**Drive:** Hydraulic

**Tensioning:** Hydraulic adjuster, grease tensioned





## 1300X MAXTRAK CONE



# PLANT CONTROLS & OTHER

## CHASSIS

Heavy duty I-Section welded construction, provides maximum strength & accessibility

## CHUTES

**Feed box:** Quick release system to aid removal of feed-in box for wear part changes

**Product conveyor:** Fabricated in 10mm mild steel plate with replaceable 10mm wear resistant liners at impact points.

## GUARDS

Wire mesh or sheet metal guards are provided for all drives, flywheels, pulleys & couplings.

## RADIO REMOTE CONTROL

Complete with integrated tracking functions & plant stop button.  
NB - Only available in certain countries where type approval has been obtained

Remote can also be used to:

Start/Stop feeder

Start/Stop tracking

Cable supplied with radio remote to allow it to be converted to umbilical control if required



## PLATFORMS

Platforms are provided for inspection & maintenance, allowing access to each side of the engine and crusher & both sides of the feed conveyor head section

All platforms are galvanised as standard & are made from steel flooring with steel toe boards, double row handrails & access ladders

Access to both sides of feeder to allow for quick removal of steel

## PLANT CONTROLS

PLC control panel

Full system diagnostics & monitoring

Key functions controlled from the panel include:

- Automatic sequential start/stop
- Feed conveyor start/stop
- Feed conveyor speed control
- Engine/chamber speed control
- Crusher level settings
- Crusher CSS control
- Calibration & monitoring of liner wear
- Tracking mode on/off





## 1300X MAXTRAK CONE



# OPTIONS

## OPTIONAL EXTRAS

- Autosand concave
- Feed hopper extensions plates
- Product conveyor belt weigher
- Camera and viewing screen
- Electric water pump
- Hot/cold climate oils
- Hot climate cooler (lube oil)
- Lighting mast
- Anti-spin motor
- Stockpile sensor
- Belt weigher
- Single auxiliary drive

## HOT/COLD CLIMATE OILS

Cold climate oils - (recommended for ambient temperatures between -20 to +30°C) - Hydraulic & lubrication oils only.

Other component modifications may be required for low temperature operations. Please contact the Powerscreen sales & applications department with any queries

Hot climate oils - (recommended for ambient temperatures between +15 to +50°C)





1300X MAXTRAK CONE



# 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

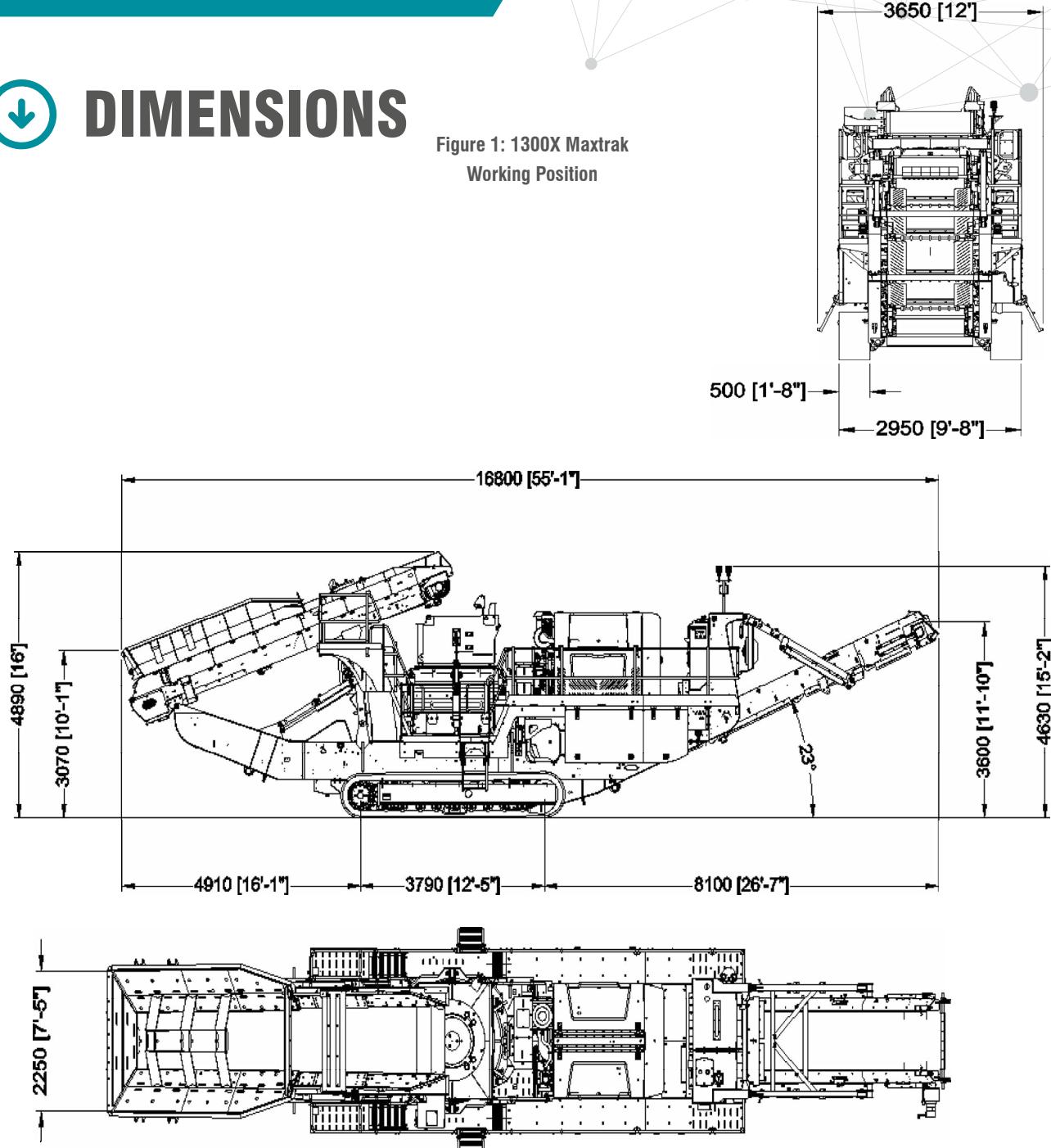


## 1300X MAXTRAK CONE



# DIMENSIONS

Figure 1: 1300X Maxtrak  
Working Position



MORE DIMENSIONS OVERLEAF

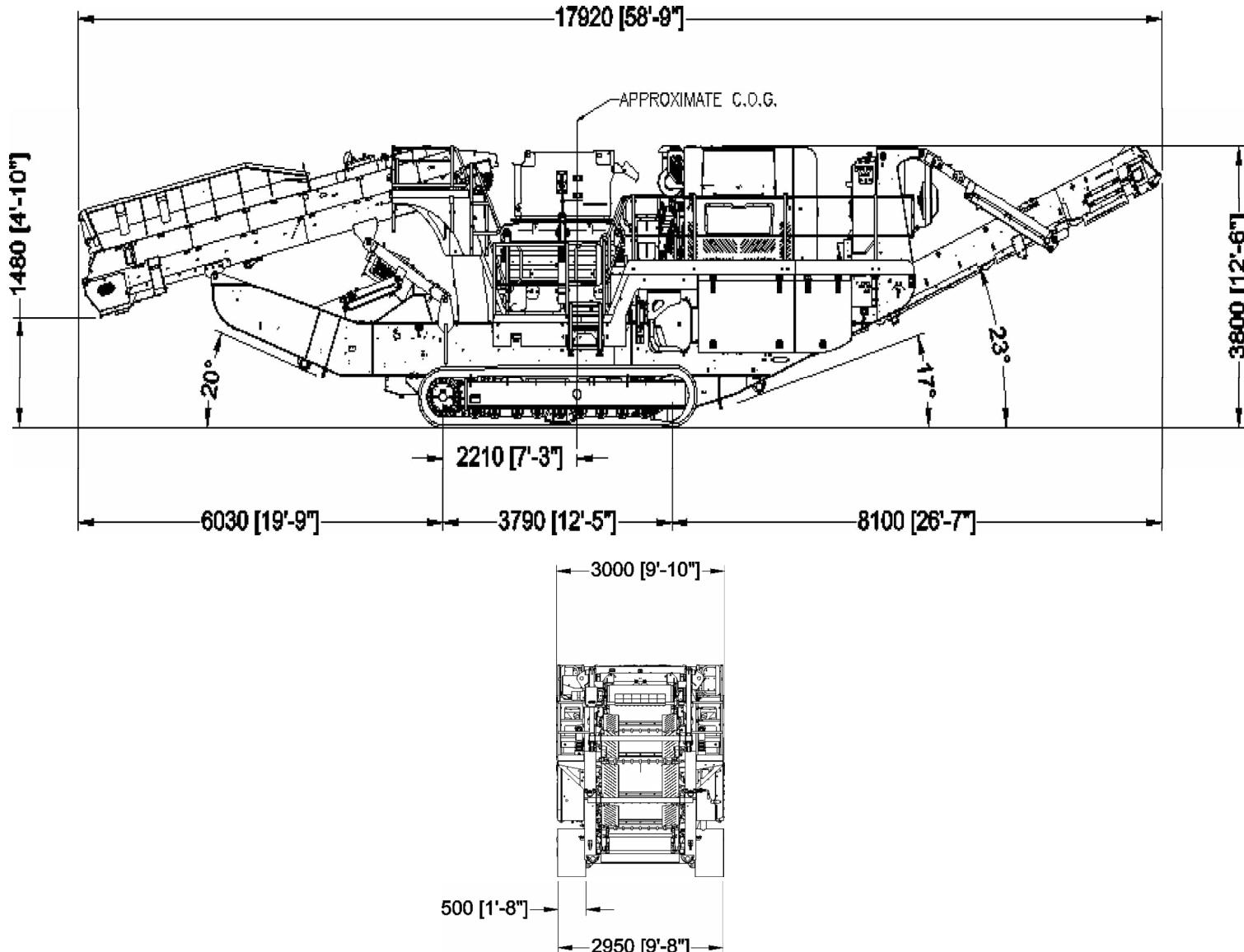


## 1300X MAXTRAK CONE



# DIMENSIONS

Figure 2: 1300X Maxtrak  
Transport Position

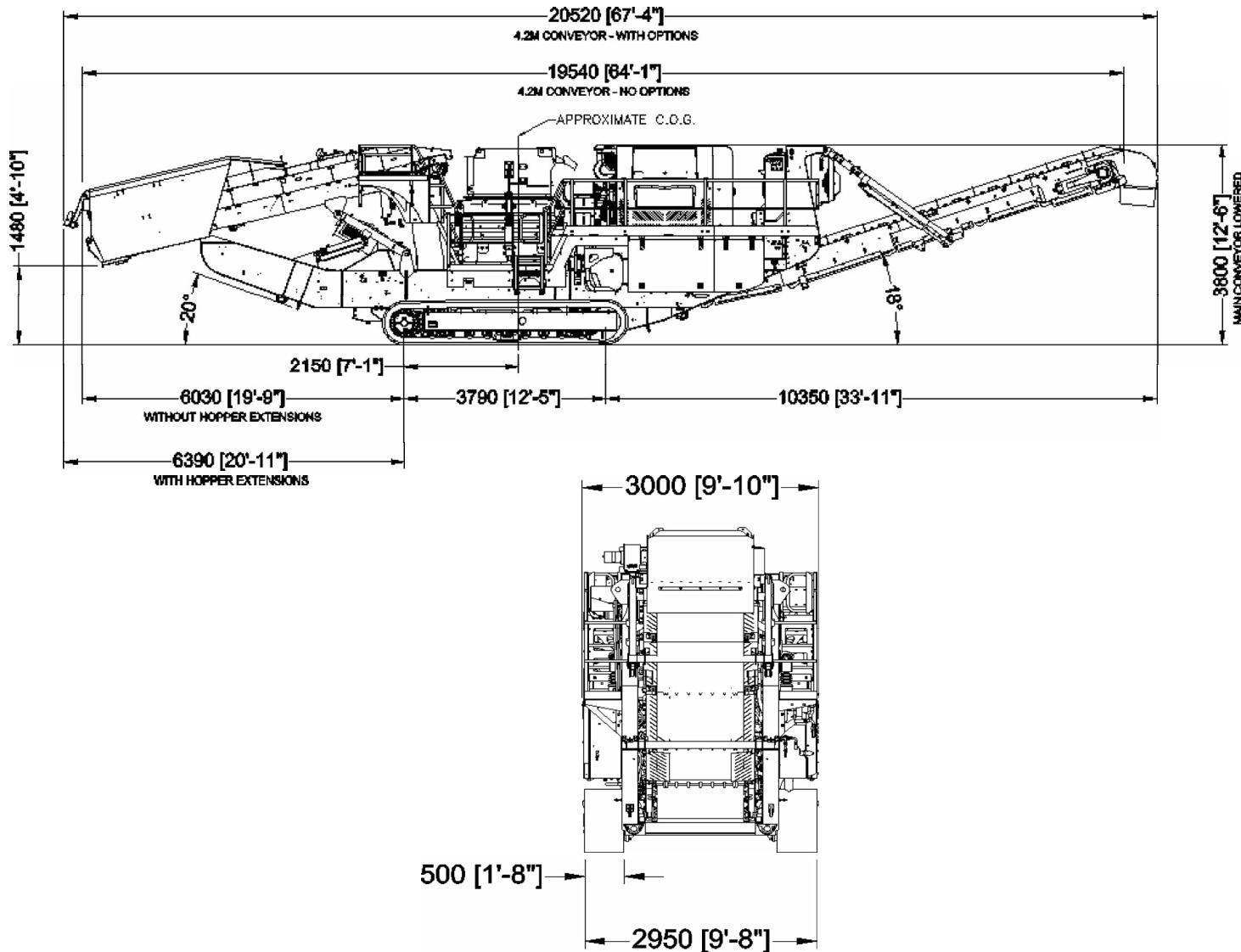




## 1300X MAXTRAK CONE

# DIMENSIONS

Figure 3: 1300X Maxtrak All Options  
Transport Position



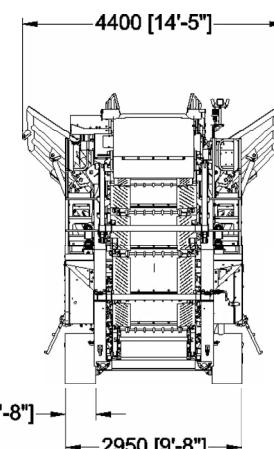
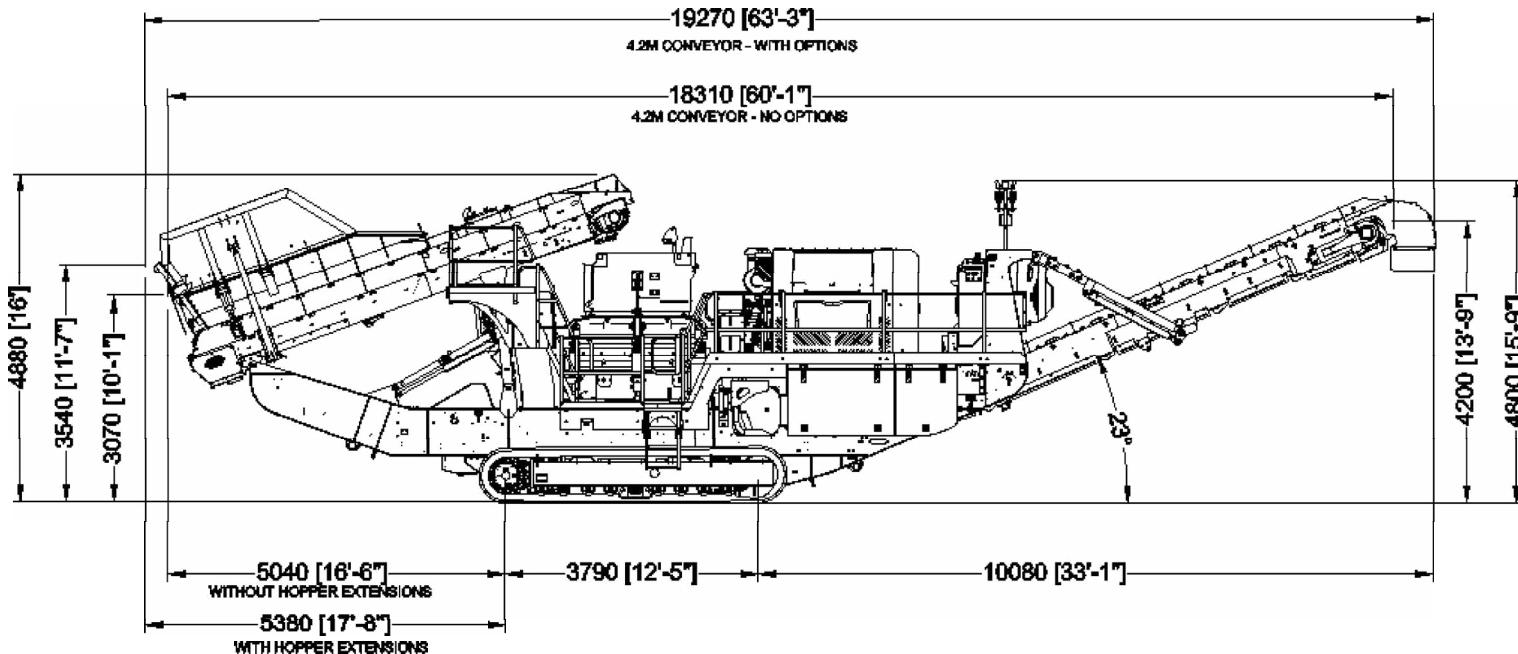


## 1300X MAXTRAK CONE



# DIMENSIONS

Figure 4: 1300X Maxtrak All Options  
Working 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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