

POWERSCREEN® 1400 MAXTRAK

CONE CRUSHER



TECHNICAL SPECIFICATION - REV 3 01/01/2022





1400 MAXTRAK CONE



OVERVIEW

SPECIFICATION

Total Weight	60,260kg (132,851 lbs) (No Options)
Transport	Length 17m (55' 9") Height 4m (13' 1") Width 3m (9' 10")
Working	Length 18.5m (60' 8") Height 6m (19' 8") Width 4.2m (13' 9")
Crusher Type:	Terex MVP450x (1380mm, 54") Cone Chamber
Power Unit	Caterpillar C18 571 kW (765hp)
Paint Colour	RAL 5021, RAL 7024, RAL 9005

FEATURES & BENEFITS

The Powerscreen® 1400 Maxtrak is a large sized track mobile cone crusher, ideally suited to secondary applications such as taking an all in feed from a primary crusher. The 1400 Maxtrak is fitted with the Terex MVP450x cone chamber and excels in the production of sub-base or aggregates, providing excellent cubicity, throughput & reduction ratios.

- High capacity output potential
- 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
- Radio remote control as standard
- Powerscreen Pulse telemetry as standard

APPLICATIONS



Aggregate

Sand & gravel
Blasted rock
River rock



Recycling

C&D waste
Foundry waste



Mining

Processed ores
Processed minerals



1400 MAXTRAK CONE



CONE CRUSHER

- Crusher type:** Terex MVP450x
- Counter shaft**
- Speed range:** 661 –861rpm (56T pulley)
- Lubrication:** Integrated cone oil lubrication tank with separate oil cooler
- Adjustment:** Hydraulic setting adjustment, automatic Tramp Iron Release (TIR) system & hydraulic unblocking
- Drive:** Direct Drive via clutch and belts
- Level sensor:** Fitted over inlet of feed box maintains optimum choke feed condition and maximising reduction
- Dust suppression:** Fitted at cone inlet and outlet

LINER PROFILE	MAXIMUM FEED SIZE	MAXIMUM CSS	MINIMUM RECOMMENDED CSS
Coarse - Medium	280mm (11")	75mm (3")	19mm (3/4")
Medium - Medium	225mm (10")	75mm (3")	16mm (5/8")
Medium Fine - Medium	155mm (6 1/8")	50mm (2")	13mm (1/2")
Fine - Medium	210mm (8 1/4")	50mm (2")	30mm (1.2")
Extra Fine - Medium	180mm (7")	50mm (2")	6mm (1/4")



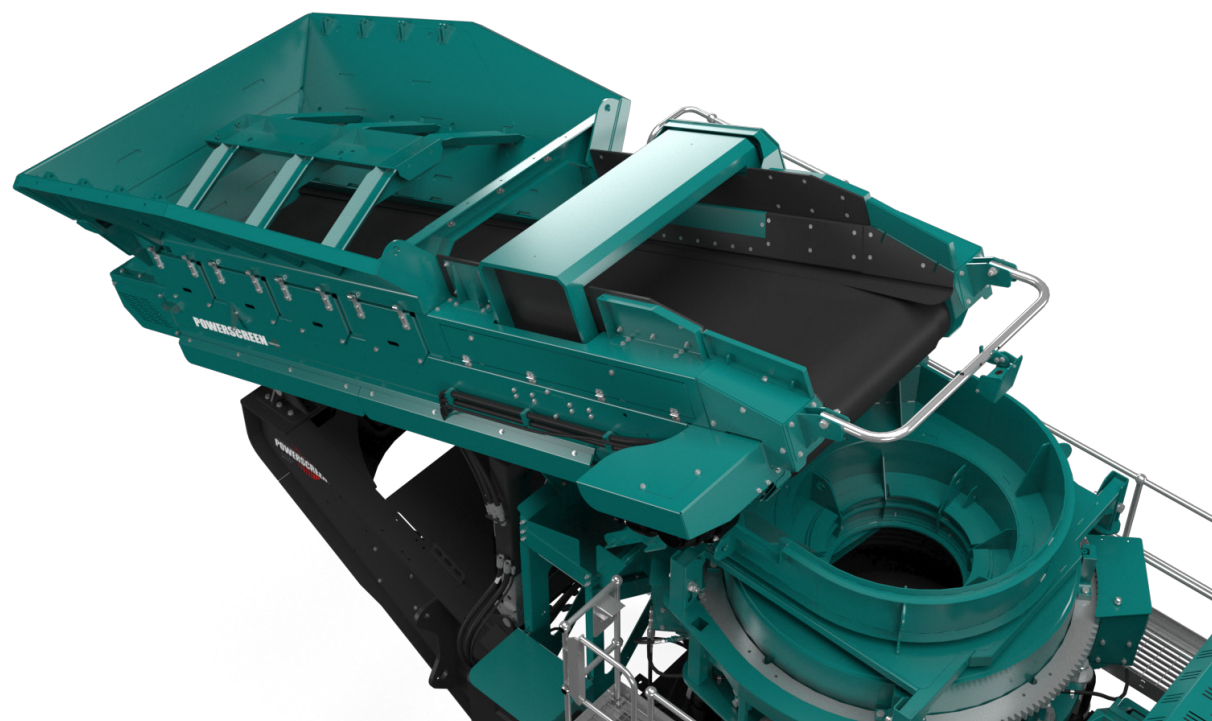


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HOPPER

Hopper type:	Fixed feed hopper with direct feed rear door
Hopper length:	3.3m (10' 10")
Hopper width:	2.5m (8' 2")
Hopper capacity:	Up to 8m ³ (10.4 cu. yd.) gross depending on method of feed
Hopper body:	Fabricated in 10mm mild steel plate, with combination of 15mm, 10mm & 6mm wear resistant steel liners at impact point.





1400 MAXTRAK CONE

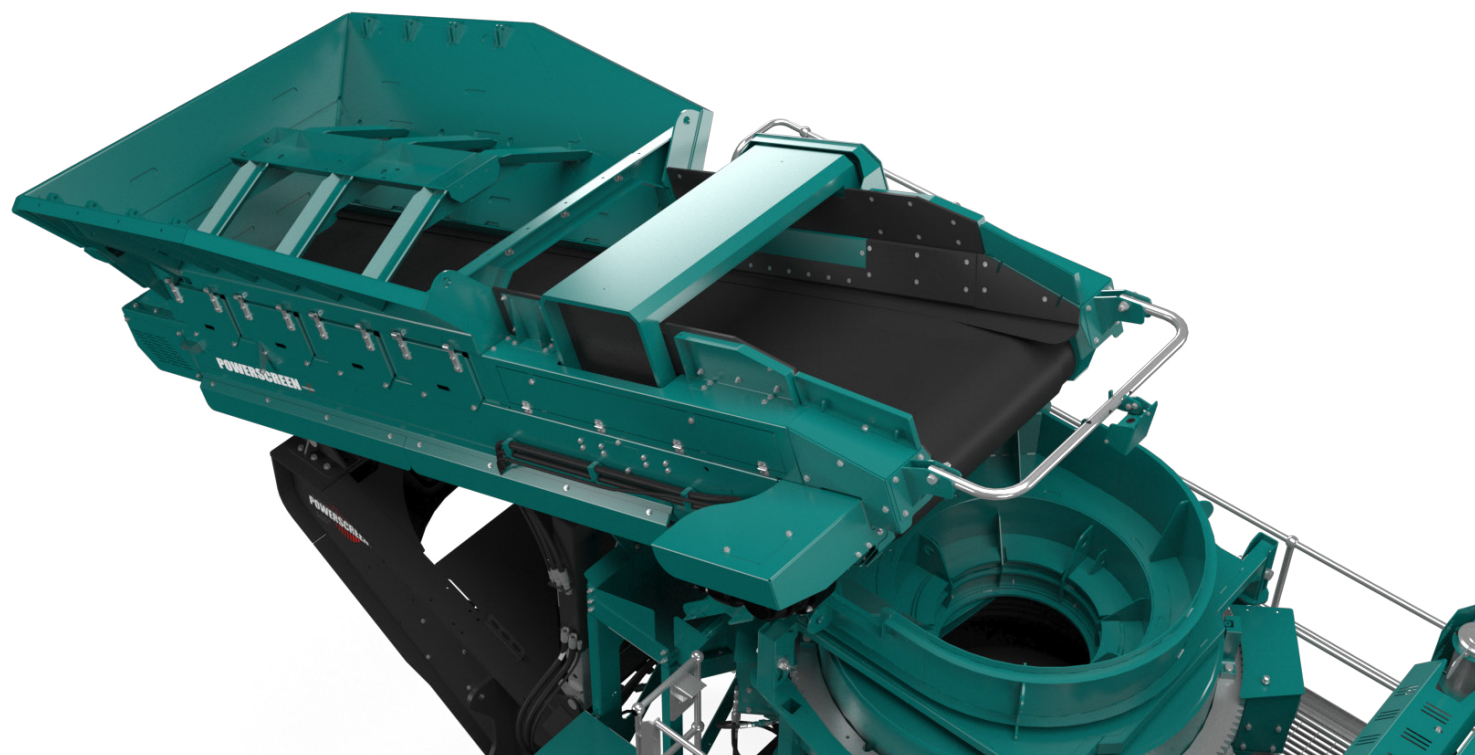


FEED CONVEYOR

Conveyor type:	Shallow troughed belt, variable speed
Design:	Raise & lower hydraulically for transport, operation & crusher maintenance
Belt type:	Plain
Belt adjustment:	Screw adjustment at the tail shaft
Belt width:	1250mm (50")
Feed height:	3.4m (11' 2")
Drive:	Hydraulic 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

Lubrication:	Oil lubricated head drum gearbox Grease nipples for lubrication of shaft bearings
Purge System:	Controllable discharge system to purge metal contaminants. This feature allows the operator to clear metal from the feed conveyor when it is detected. The contaminated material is dumped to the side of the machine. This can be done on the main control panel or remotely via the optional radio remote.

*If the metal detection is disabled, this is not applicable.





1400 MAXTRAK CONE



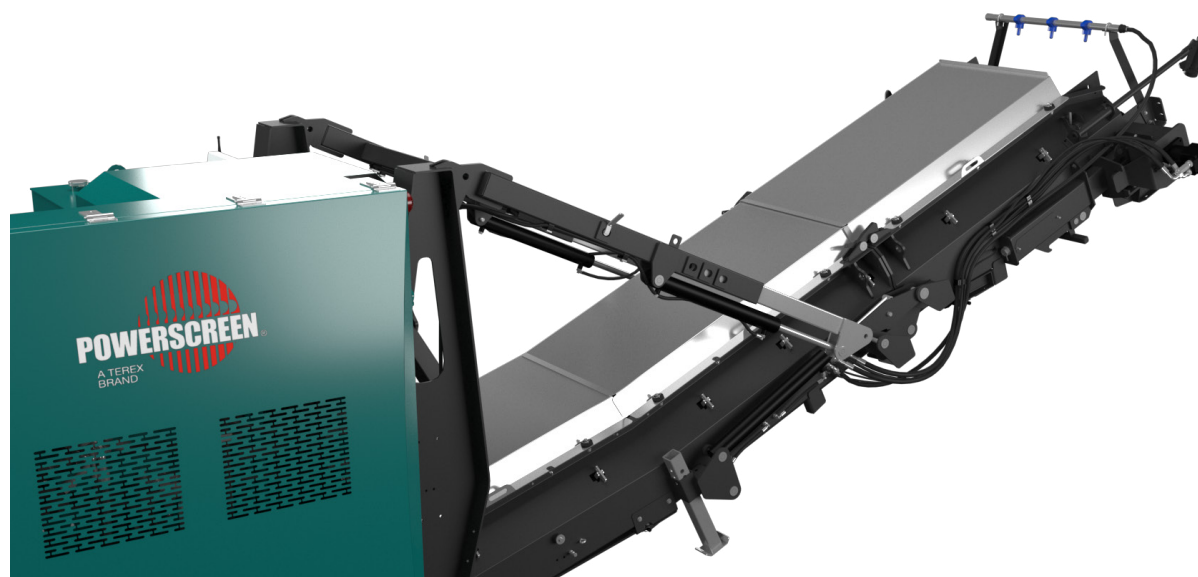
PRODUCT CONVEYOR

Conveyor type:	Troughed belt. Fixed speed conveyor with hydraulic drive
Belt type:	Plain
Belt width:	1200mm (48")
Working angle:	26°
Discharge height:	3.55m (11' 8")
Stockpile volume:	82m ³ (107 cu. yd.)
Impact bars:	Fitted below the crusher outlet
Skirting:	Fully skirted rubber sealing along the conveyor length
Drive:	Direct drive hydraulic motor
Belt covers:	Aluminium type removable dust covers are fitted over the exposed section of the conveyor
Belt adjustment:	Screw adjustment at the head drum
Lubrication:	Grease nipples for lubrication of shaft bearings
Speed sensor:	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





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POWER UNIT & HYDRAULICS

Tier 2 Equivalent:	Caterpillar C18, 571 kW (765hp)
Operating conditions:	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.	
Operating rpm range:	1700 - 2100rpm
Plant drive:	High quality pumps driven via engine/clutch PTOs
Fuel tank capacity:	1100 L (290 US Gal)
Hydraulic tank capacity:	850 L (225 US Gal)
Cone lube oil tank capacity:	265 L (70 US Gal)
Crusher drive:	Direct drive via clutch & belts
Crusher drive tensioning:	Pulley tensioning system
Clutch type:	Highly efficient, HPTO 14 Wet plate clutch.





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TRACKS

Type: Heavy duty bolt on tracks

Sprocket centres: 4200mm (13' 9")

Track width: 500mm (1' 8")

Gradeability: 25° maximum

High speed: 1.1kph (0.7mph)

Drive: Hydraulic





1400 MAXTRAK CONE



OTHER

CHASSIS

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

Transport tie down points

CHUTES

Feed box: Fabricated in 5mm mild steel plate with 15mm wear resistant steel sections at high impact areas.

Product conveyor: Fabricated in 10mm mild steel plate with replaceable 15mm wear resistant liners at impact points.

GUARDS

Wire mesh or sheet metal guards are provided for all drives, 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

- Auto start / stop
- Feed conveyor start / stop
- Metal purge sequence (if selected)
- Tracking



PLATFORMS

Platforms are provided for inspection & maintenance, allowing access to each side of the engine, crusher & one side 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.

UMBILICAL CONTROL

An umbilical control unit is also supplied with the plant. This is used to control the tracking function & is also fitted with a stop button for the plant.





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↓ OPTIONS

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)

OPTIONAL EXTRAS

- Alternative cone liners
- Product conveyor stockpile sensor
- Hydraulic feed hopper extensions plates.
- Product conveyor belt weigher
- Camera & viewing station
- Hydraulic water pump
- Radio remote control

CONTROL PANEL POSITIVE PRESSURISATION

An additional unit designed to reduce dust particles within the control panel.

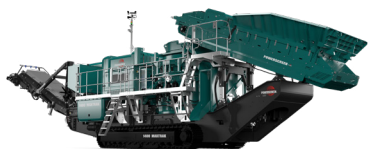
A continuous flow of clean air is passed through the cabinet whilst the unit simultaneously filters out any particulate laden air.

HYDRAULIC WATER PUMP

A hydraulically powered water pump is available to power the dust suppression system.

- Hot climate oils
- Cold climate Oils
- Control panel positive pressurisation
- Hot climate coolers
- Lighting mast





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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**

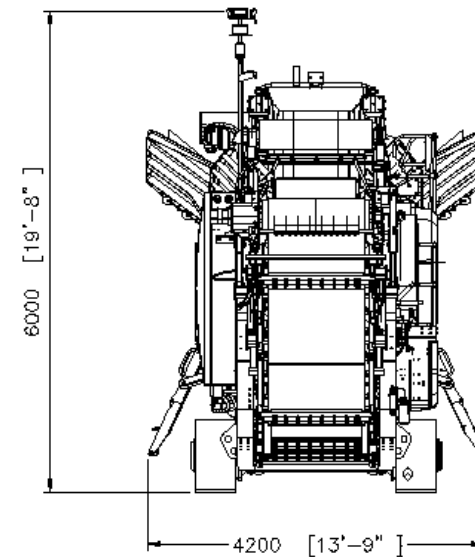
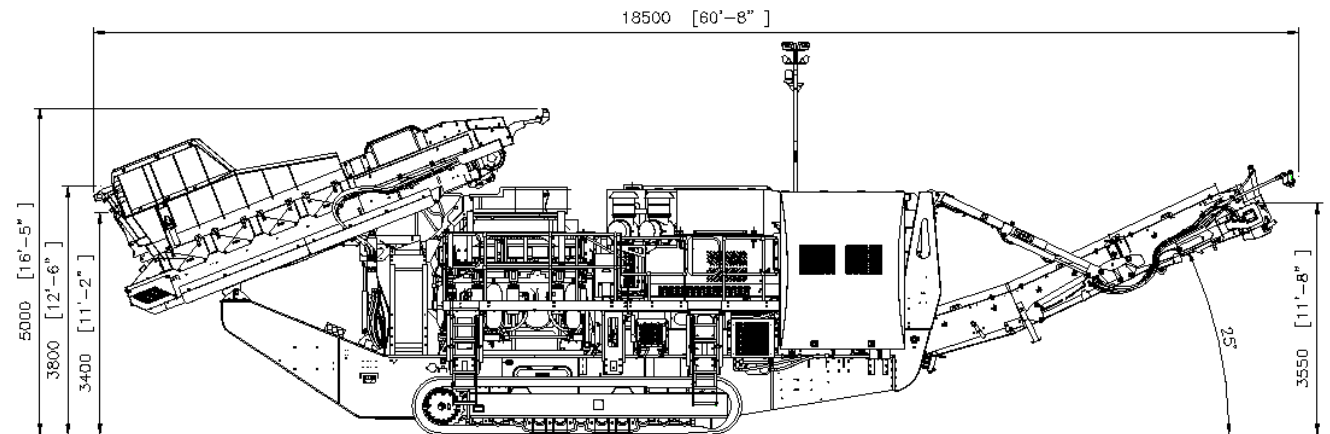


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DIMENSIONS

Figure 1: 1400 Maxtrak
Working Position



MORE DIMENSIONS OVERLEAF

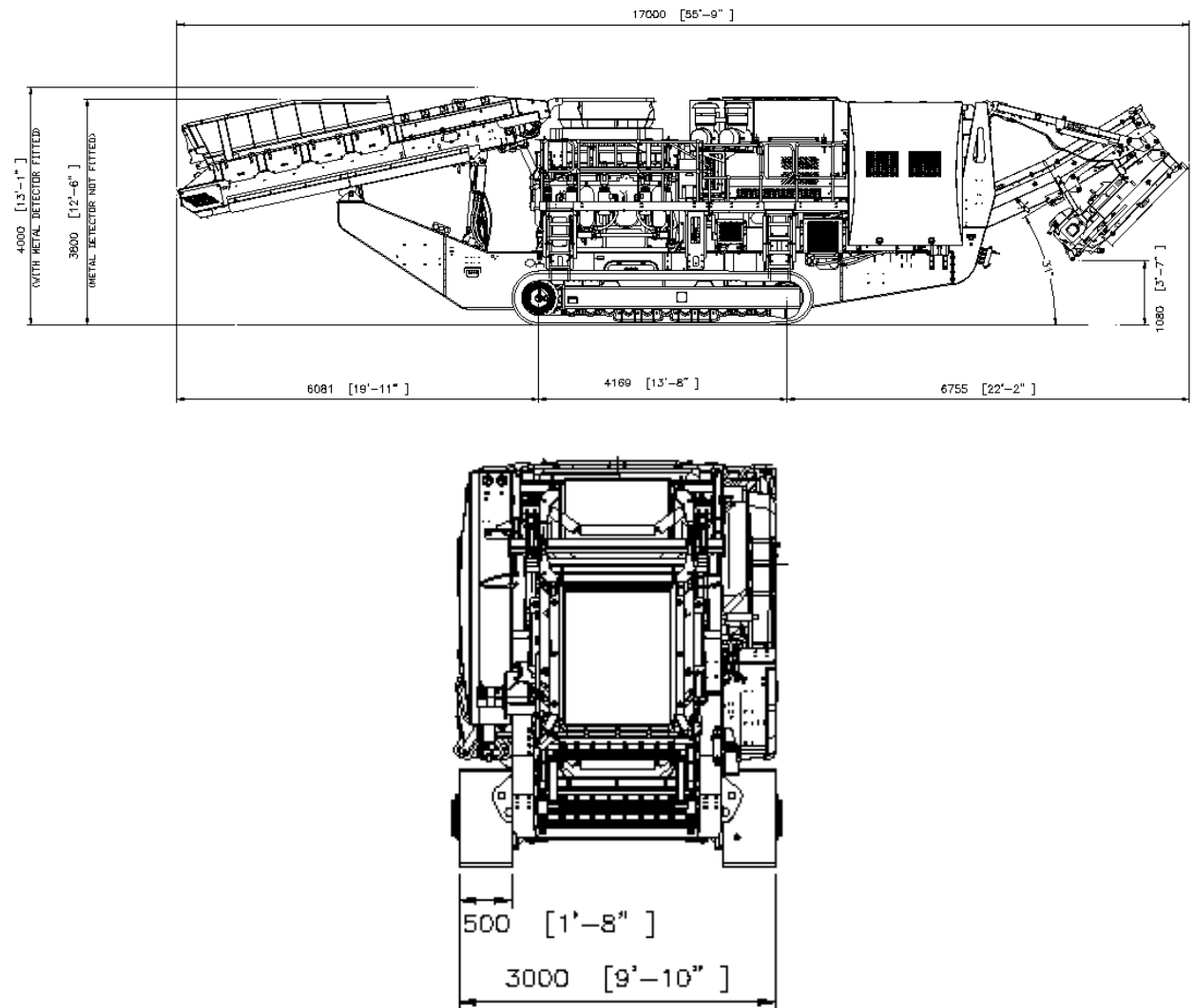


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DIMENSIONS

Figure 2: 1400 Maxtrak
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.

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