

Powerscreen® 1300 Maxtrak

Cone Crusher

SPECIFICATION - Rev 5. 01-01-2013



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Specification 1300 Maxtrak

Total weight		46,300kg (102,100lbs)
Transport	Length	15.3m (50' 2")
	Width	3.0m (9' 10")
	Height	3.85m (12' 8")
Working	Length	15.35m (50' 4")
	Width	3.0m (9' 10")
	Height	4.75m (15' 7")
Crusher type:		1300 Automax Crusher
Powerunit:		Caterpillar C13 ACERT 328 kW (440hp) or Scania DC13 083A 331 kW (450hp)
Paint colour:		RAL 5021

Features & Benefits

The Powerscreen® 1300 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 1300 Automax® cone crusher, the plant excels in the production of sub-base or aggregates, providing excellent cubicity, throughput & reduction ratios.

- Output potential up to 350 tph (386 US tph)
- 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

Applications

Aggregate

- Sand & gravel
- Blasted rock
- River rock

Recycling

- C&D waste
- Foundry waste

Mining

- Processed ores
- Processed minerals

All specifications subject to change without prior notice



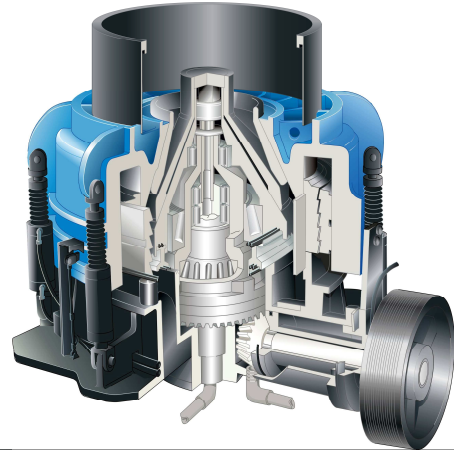
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Cone Crusher

Crusher type:	1300 Automax Crusher
Liners:	Manganese steel alloy mantle & concave
Standard concave:	Medium Coarse (MC)
Lubrication:	Pumped system having a chassis mounted lube tank with air blast cooler
Adjustment:	Hydraulic setting adjustment, automatic overload release & hydraulic unblocking
Controls:	2 Operating modes available: - Autoset mode: Fixed parameters - Maxset mode: Load sensing, parameters auto adjust to maximise performance
Concave options:	Autosand (AS)
Drive:	Wedge belt drive from engine via hydraulically controlled clutch



Crusher Options

CONCAVE	MAXIMUM FEED SIZE	MAXIMUM RECOMMENDED CSS
Automax Medium Coarse	220mm (8.5")	44mm (1.75")
Autosand	63mm (2.5")	30mm (1.2")

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Feed Hopper

Hopper type:	Fixed feed hopper with direct feed rear door
Hopper length:	3.5m (11' 4")
Hopper width:	2.8m (9' 2")
Hopper capacity:	Up to 7.0m ³ (9.1 cu. yd.) gross depending on method of feed
Hopper body:	Fabricated in 10mm thick wear resistant steel plate, with internal crash bars to minimise impact load on the feed conveyor



Feed Conveyor

Conveyor type:	Shallow troughed belt variable speed
Design:	Raises & lower hydraulically for transport, operation & crusher maintenance
Belt type:	EP630/4 with 6mm top & 2mm bottom heavy-duty rubber covers, vulcanised joint
Belt adjustment:	Screw adjustment at the tail shaft
Belt width:	1300mm (51")
Feed height:	3.2m (10' 6")
Drive:	Hydraulic drive via flange mounted gearbox
Impact rollers:	Immediately 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



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Product Conveyor

Conveyor type:	Troughed belt fixed speed conveyor with hydraulic drive
Belt type:	EP500/3 with 5mm top & 1.5mm bottom heavy-duty rubber covers, vulcanised joint
Belt width:	1000mm (39")
Discharge height:	3.47m (11' 5")
Stockpile volume:	61m ³ (81 cu. yd.)
Impact rollers:	Provided immediately below the crusher outlet
Skirting:	Fully skirted rubber sealing along the conveyor length
Drive:	Direct drive hydraulic motor
Belt covers:	Canvas type removable dust covers are fitted over the exposed section of the conveyor
Belt adjustment:	Screw adjusts at head shaft
Lubrication:	Grease nipples for lubrication of shaft bearings
Speed sensor:	Designed to stop plant feed when discharge conveyor stops



Chutes

Feed box:	Fabricated in 6mm mild steel plates. Hinge down back plate to lower feed conveyor head section for transportation.
Product conveyor	Fabricated in 10mm mild steel plate with 20mm wear resistant liners at impact points.



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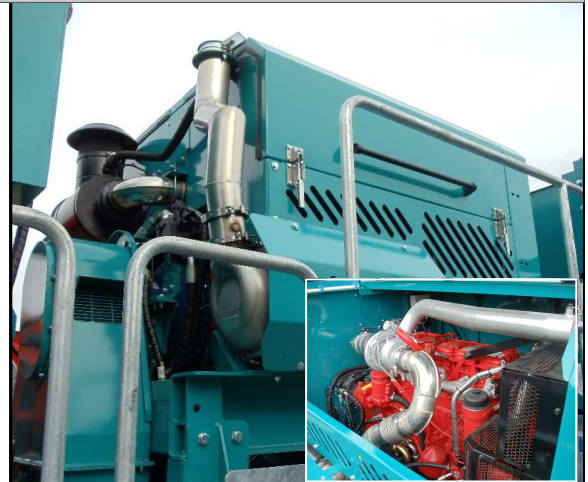
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Powerunit

EU Stage IIIA / US Tier 3:	Caterpillar C-13 Tier III ACERT , 6 cylinder, direct Injection, 328 kW (440hp) at 1800rpm #
Operating Conditions:	Ambient temp. +40°C & -12°C (104°F & 10°F) altitudes up to 1000m (3281ft) above sea level.#
Operating rpm range:	1800rpm
Typical fuel consumption:	N/A
Plant drive:	High quality pumps driven via belt drive from engine
Fuel tank capacity:	1000 L (264 US Gallons)

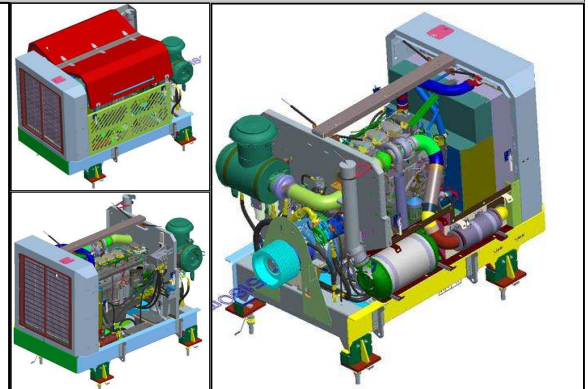


EU Stage IIIB / US Tier 4i :	Scania DC13 083A 331 kW (450hp) 6 cylinder at 2100rpm,
Operating Conditions:	Ambient temp.+40°C & -12°C (104°F & 10°F) at altitudes up to 1000m (3281ft) above sea level. #
Operating rpm range:	1800rpm
Emission control technique:	Selective Catalytic Reduction (SCR)
Reductant 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:	300 L (79 US Gal)
Cone lube oil tank capacity:	270L (71 US Gal)
Clutch type:	Highly efficient, Self-adjusting HPTO 12 dry plate clutch with electro hydraulic operation
Crusher drive:	Direct drive via wedge belts
Crusher drive tensioning:	Manually adjustable screw tensioners located under Powerunit

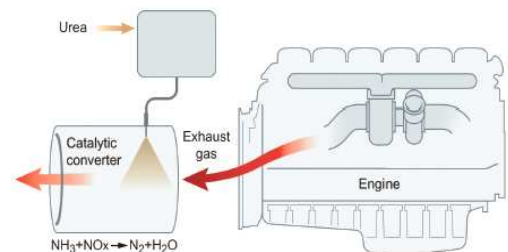
For applications outside this range please consult with Powerscreen as the plant performance / reliability may be affected.



Selective Catalytic Reduction (SCR)

SCR technology is used for Stage IIIB & Tier 4i to reduce the NOx content in the exhaust gases. A chemical process is started by injecting reductant, a urea & water mixture, into the exhaust gas stream. During injection the water evaporates & the urea breaks down to form ammonia. The ammonia then reacts with the nitrogen gases in the catalytic converter & forms harmless products such as nitrogen gas & water.

Through the use of SCR the exhaust gases are purged of poisonous levels of NOx in the best possible way. The Reductant tank holds 60 litres & is heated by the engine's cooling system in order to avoid freezing of the urea solution, urea freezes at -11°C.



The principle for Scania SCR system

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Chassis

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



Crawler Tracks

Type: Heavy-duty tracks fitted as standard

Longitudinal centres: 3800mm

Track pad width: 500mm

Climbing grade: 29° maximum

Speed: 0.9kph (0.55mph)

Drive: Hydraulic

Track tensioning: Hydraulic adjuster, grease tensioned



Guards

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

The guards provided are designed & manufactured to CE & ANSI standards.



Platforms

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



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Controls - EU Stage IIIA / US Tier 3

Plant: Control panel to operate the following items:

- Crusher (start/stop)
- Oil pump (start/stop)
- Discharge conveyor (start/stop)
- Feed conveyor (start/stop/speed)
- Crusher level controls

Feed conveyor raise/lower function via control lever

Crusher: The hydraulic system control panel enables crusher-setting changes to be made & to calibrate & monitor manganese wear



EU Stage IIIA / US Tier 3:

Controls - EU Stage IIIB / US Tier 4i

On EU Stage IIIB / US Tier 4i equipped machines both crusher & plant controls have been simplified into one panel. All functionality remains as before, with improved diagnostics capabilities

- Crusher (start/stop)
- Oil lubrication pump (start/stop)
- Discharge conveyor (start/stop)
- Feed conveyor (start/stop/speed)
- Crusher level controls
- Crusher-setting changes
- Calibrate & monitor manganese wear



EU Stage IIIB / US Tier 4i :

Dust Suppression Sprays

Sprays bars with atomiser nozzles are mounted over the crusher mouth & the product conveyor feed & discharge points. Piped to an inlet manifold.

Type:	Clean water atomising nozzles
Inlet:	Single point
Pressure required:	2.8 bar (42 psi)
Frost protection:	Via system drain valves
Pump:	Optional extra



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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Hydraulic Water Pump

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



Electric Refuelling Pump

A 24 volt refuelling pump, allows fuel to be drawn from a remote source. Fuel transfer rate is 50 L/min.



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



Optional Extras

- | | |
|--|---|
| <ul style="list-style-type: none"> ▪ Autosand concave ▪ Feed hopper extensions plates. ▪ Electric refuelling pump ▪ Urea refuelling pump | <ul style="list-style-type: none"> ▪ Product conveyor belt weigher ▪ Hydraulic water pump ▪ Radio remote control |
|--|---|

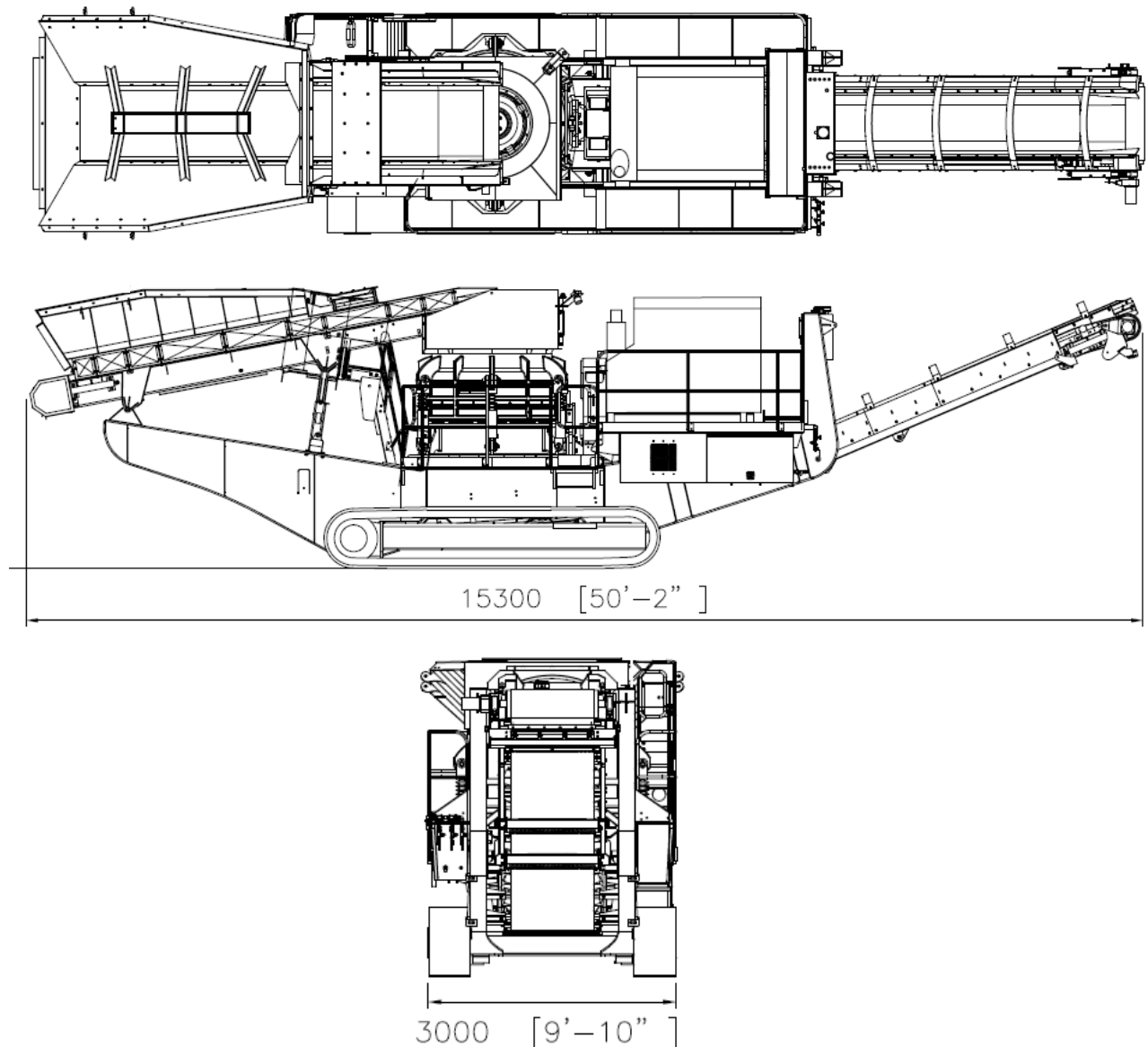
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Approximate Plant Weights & Dimensions

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1300 Maxtrak Transport Dimensions



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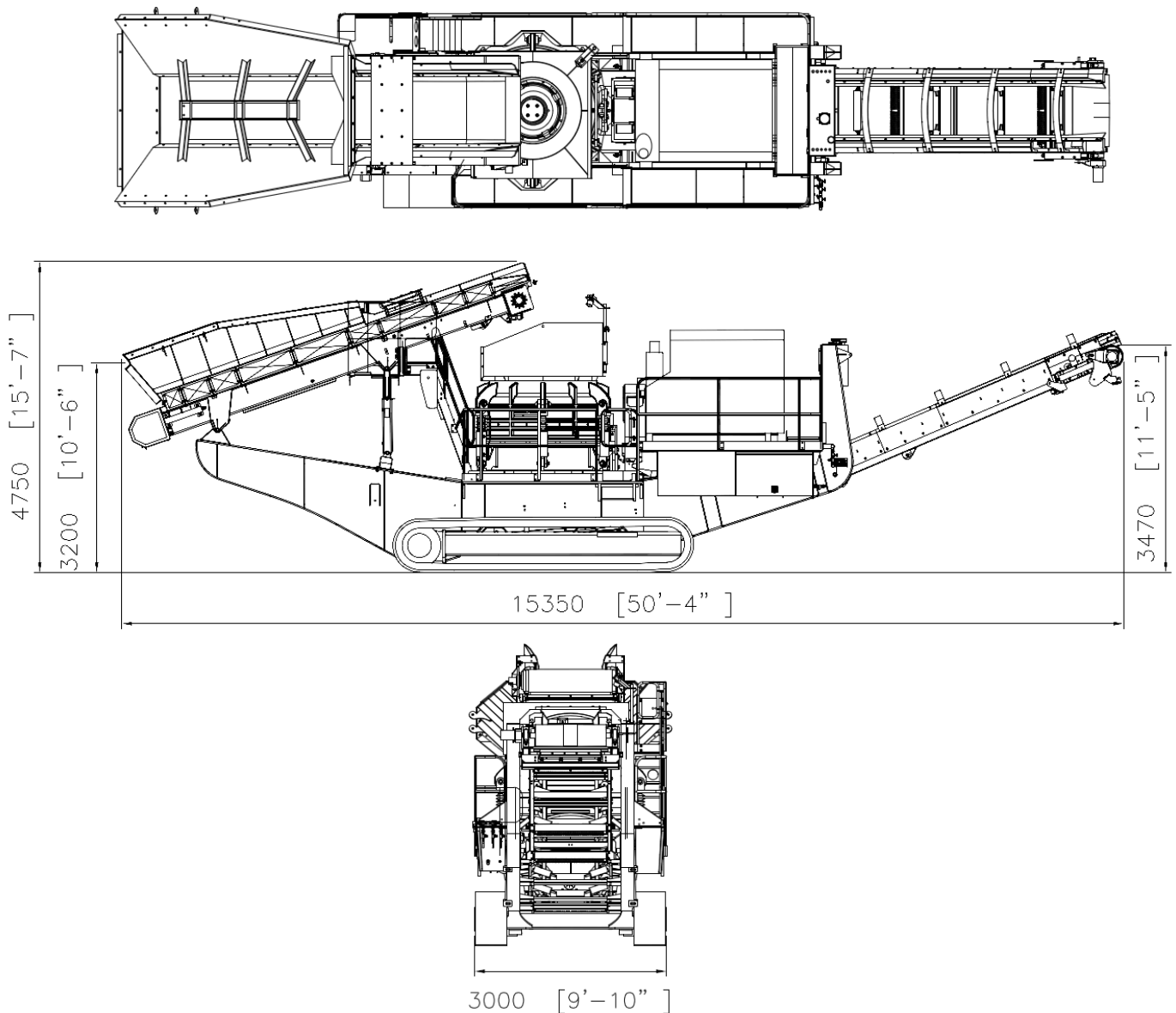
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Approximate Plant Weights & Dimensions

Working length:	15.35m	(50' 4")
Working height:	4.75m	15' 7"
Working width:	3.0m	(9' 10")

1300 Maxtrak Working Dimensions



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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.

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