

C-1540 Cone Crusher



SPECIFICATION:

Cone Head Diameter:		1000mm (40")
Net Engine Power:	Tier 3 / Stage IIIA:	Caterpillar C9 Acert 261kW (350hp)
	Tier 4F / Stage IV:	Scania DC09 257kW (350hp)
Portability:		Tracked
Operating Weight:		33,500kg (73,855lbs) <i>(without optional)</i>

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SPECIFICATION

HOPPER / FEEDER

Hopper capacity: 5m³ (6.5yd³)

Feed height: 2.8m (9' 2")

Feed height with optional hopper extensions: 3.2m (10' 6")

Hopper fabricated in 10mm mild steel plate with 10mm wear resistant steel liners at impact point

Hopper Width at rear: 2.45m (8')

Hopper Width at rear with optional hopper extensions: 3.7m (12' 2")

Belt Spec: Plain

Belt Width: 1.05m (42")

Speed range: Variable, 0 – 31 m/min (0 – 101 ft/min)

Working Angle: 21°

Drive: Hydraulic variable speed drive via gearbox

Drop down rear door for auxiliary crusher feed

Crash bar fitted to reduce impact load on feed conveyor

Rubber covered impact rollers fitted

Hydraulic retraction system for ease of movement between transport and working modes

Full length skirting to head drum

Automatic variable speed conveyor ensures maximum output from plant

Metal detection system with 'auto-stop' feature is suitable for detecting steel and manganese steel contained in the feed material

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

CONE CHAMBER

Terex 1000mm (40") cone chamber

Cone Counter Shaft Speed Range: 915 - 1015 rpm

Variable speed control settings for producing a quality aggregate

Long throw fitted on standard configuration

Drive arrangement: Direct drive via clutch and v-belts

'On the fly' hydraulically adjustable closed side setting with monitoring system

Mantle/concave wear indicator

Hydraulic overload protection with automatic reset. This allows the upper frame to lift up, to permit the passage of tramp iron and other un-crushable material. The system then automatically returns the upper frame to its original position

CONE CHAMBER continued

Unrestricted feed opening reduces blockages, bridging and maximizes output

Independent cone oil lubrication tank with separate oil cooler

Level sensor fitted over inlet feed box maintains the optimum choke feed condition hence maximizing the reduction and manganese life

Dust suppression fitted at cone inlet and outlet



Hopper and Feeder



Cone Chamber



Cone Chamber

Concave	Maximum Feed Size	Maximum CSS	Minimum Recommended CSS
Medium Coarse	160mm (6 5/16")	36mm (1 7/16")	19mm (3/4")
Coarse	175mm (6 7/8")	36mm (1 7/16")	19mm (3/4")
Extra Coarse	195mm (7 11/16")	36mm (1 7/16")	22mm (7/8")
Sand	63mm (2 1/2")	32mm (1 1/4")	13mm (1/2")

*Note: Minimum Recommended CSS subject to feed conditions

MAIN CONVEYOR

Belt Width: 900mm (36")

Belt Spec: Plain

Working Angle: 21°

Speed: 105 - 115 m/min (344 - 377 ft/min)

Discharge Height: 3.3m (10' 10")

Impact bars and wear resistant liners at feed point

High spec scraper at head drum

Dust suppression: fitted with hose and spraybars as standard (no pump supplied)

Full length skirting to head drum

Dust covers (optional)

Standard Stockpile capacity: 53.5m³ (70yds³) @ 40°

POWERPACK

Tier 3 / Stage IIIA : Caterpillar C9 ACERT

Engine Power: 261kW (350hp)

Engine Speed: 1750 - 1900 rpm

Tier 4F / Stage IV: Scania DC09

Engine Power: 257kW (350hp)

Engine Speed: 1450 -- 1600rpm

TANK CAPACITIES

Hydraulic Tank: 380 litres / 83 UK gal / 100 US gal

Fuel Tank: 740 litres / 162 UK gal / 195 US gal

Urea Tank: 60 litres / 13 UK gal / 15 US gal



Main Conveyor



Scania Engine



Cat Engine

UNDERCARRIAGE

Shoe Width: 400mm (15")

Sprocket Centres: 3.24m (10' 8")

Tracking Speed: 1.3 km/h

Gradeability: 25°

TOOL BOX

Mounted lockable toolbox

Tool kit supplied

Two grease guns supplied – one for machine, one for cone

CHUTES

Cone chamber feed box fabricated in 6mm mild steel plate

Cone chamber discharge chute fabricated in 5mm mild steel plate with 15mm wear resistant steel liners fitted at impact point

Contamination chute fabricated in 6mm mild steel plate

CONTROL SYSTEM

Advanced CANBUS compliant system

Large colour display screen

Main menu consists of five modes:

Automatic mode: For automatically starting the machine in a set sequence

Track mode: For moving machine

Setup mode: For folding / setting up machine

Cone setup mode: For testing / setting of cone

Configuration mode: For testing / setting individual components / monitoring engine performance and faults / monitoring machine faults

User friendly incremental selection of feeder and crusher speed, enable the operator to achieve the optimal throughput and product shape

The main control panel is mounted to the side of the machine in a lockable compartment

Detachable umbilical control for tracking

Emergency stops: 8 off

PLATFORMS

Galvanised catwalks and ladders for full maintenance and service access

Catwalks on both sides of the machine

Compact folding for transport

Feed conveyor access platform (optional)

REMOTE CONTROL UNIT (OPTIONAL)

Full function radio remote unit:

- Auto start / stop
- Feed conveyor start / stop
- Metal purge sequence
- Tracking



Control System



Platforms



Remote Control Unit (Optional)



UnderCarriage

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STANDARD FEATURES

ENGINE:

Tier 3 / Stage IIIA:- Caterpillar C9 ACERT 261kW (350hp)

Tier 4 Final / Stage IV: Scania DC09 257kW (350 hp)

CONE:

Terex 1000 Cone chamber, 1000mm (40") head diameter

Long throw eccentric, medium coarse concave (max feed size 160mm)

Direct Drive via clutch

FEEDER CONVEYOR / HOPPER:

5m³ (6.5yd³) hopper capacity

1050mm (42") wide belt

Metal detector

Metal contaminants purge system

Wear resistant liner plates

MAIN CONVEYOR:

900mm (36") wide belt

High spec scraper at head drum

Wear resistant liners at crusher discharge point

GENERAL:

Galvanised catwalk c/w handrail, kick board and access ladders

Heavy duty track unit.

Hand held track control set with connection lead

Safety guards in compliance to machinery directive

Emergency stops

Piped for dust suppression c/w spraybars

Standard oils - (Recommended for ambient temperatures between -5 to +30°C)

T-Link Telemetry System fitted c/w 3 years data subscription

OPTIONAL EQUIPMENT

Electrically driven water pump.

Electric Re-fuelling pump

Special paint colour (if different from Terex White Colour RAL 1013 or Finlay Orange RAL 2002) . RAL must be specified on order

Manual extensions for feed hopper (total capacity 8m³/10.4yd³)

Radio remote system

Belt weigher for main conveyor

Stockpile Level Sensor for main conveyor

Dust Covers for main conveyor.

Dust hood for main conveyor. Note :- 3.8m Transport height if fitted.

Feed conveyor access platform

Lighting mast

Hot climate lubrication kit (Recommended for ambient temperatures between +15 to +50°C)

Hot climate cooler pack c/w hot climate lubrication kit (Recommended for ambient temperatures > +35°C).

Cold climate lubrication kit (Recommended for ambient temperatures between -20 to +30°C)

Portable urea filling pump c/w nozzle

Camera over crusher.

Control panel positive air pressurisation.

Extra coarse concave - max feed size 195mm (check lead time)¹

Coarse concave - max feed size 175mm (check lead time)¹

Sand concave - max feed size 63mm (check lead time)¹ *NOTE - MUST TAKE SHORT THROW ECCENTRIC OPTION

Short throw eccentric (check lead time)¹

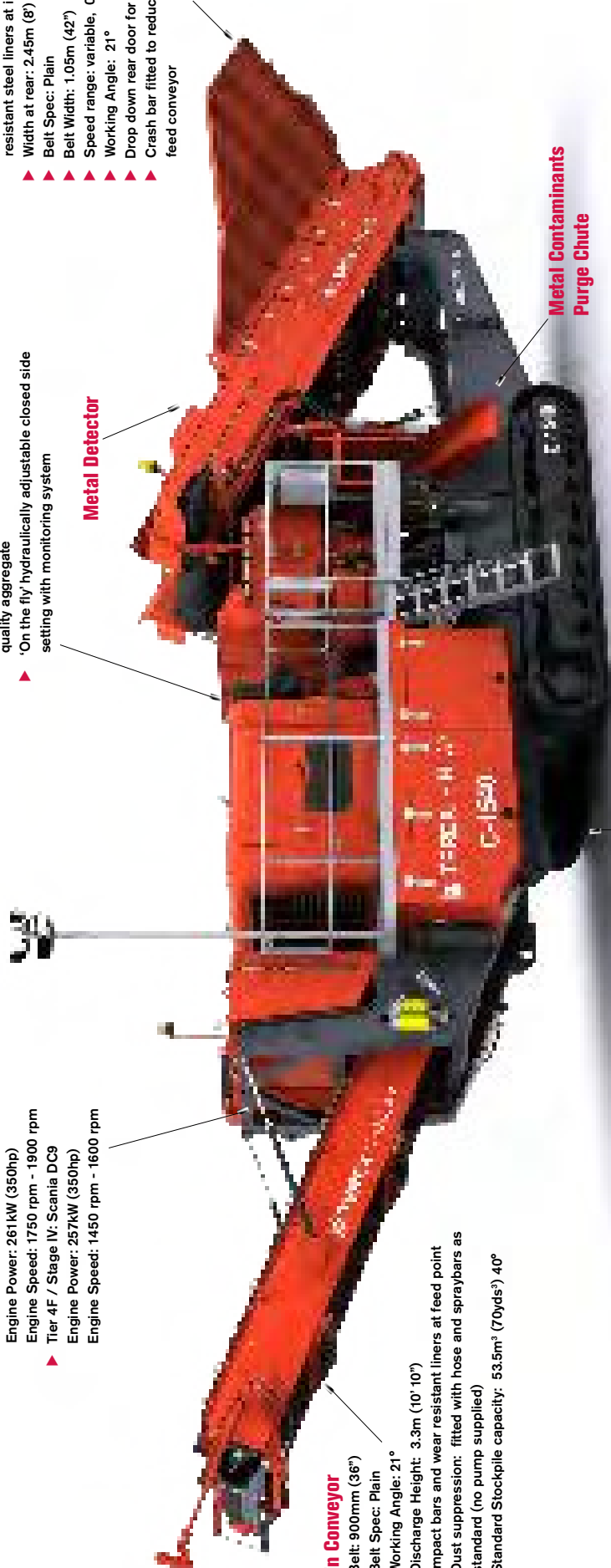
Cone Chamber

- ▶ Terex 1000mm (40") cone chamber
- ▶ Cone counter shaft Speed Range:
 - Tier 3: 935- 1015 rpm
 - Tier 4: 915-1010 rpm
- ▶ Variable speed control settings for producing a quality aggregate
- ▶ 'On the fly' hydraulically adjustable closed side setting with monitoring system

Hopper / Feeder

- ▶ Hopper capacity: 5m³ (6.5yd³)
- ▶ Hopper fabricated in 10mm mild steel plate with 10mm wear resistant steel liners at input point
- ▶ Width at rear: 2.45m (8')
- ▶ Belt Spec: Plain
- ▶ Belt Width: 1.05m (42")
- ▶ Speed range: variable, 0 – 31 m/min (0 – 101 ft/min)
- ▶ Working Angle: 21°
- ▶ Drop down rear door for auxiliary crusher feed
- ▶ Crash bar fitted to reduce impact load on feed conveyor

Metal Detector



Main Conveyor

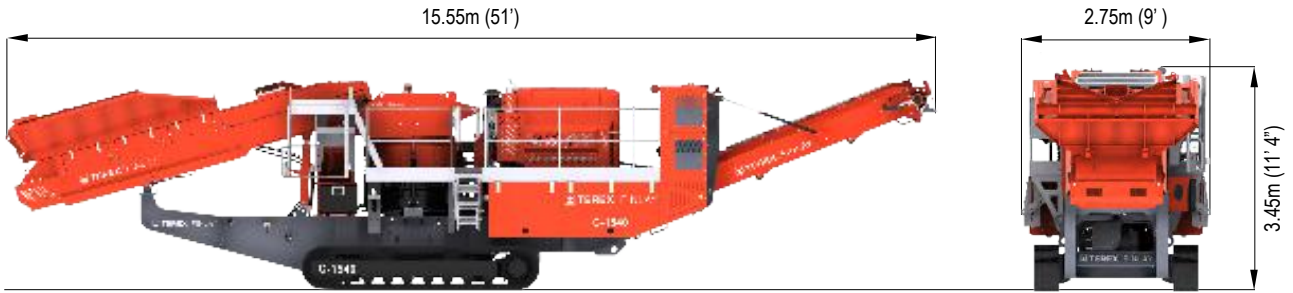
- ▶ Belt: 900mm (36")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 21°
- ▶ Discharge Height: 3.3m (10' 10")
- ▶ Impact bars and wear resistant liners at feed point
- ▶ Dust suppression: fitted with hose and spraybars as standard (no pump supplied)
- ▶ Standard Stockpile capacity: 53.5m³ (70yds³) 40°

Undercarriage

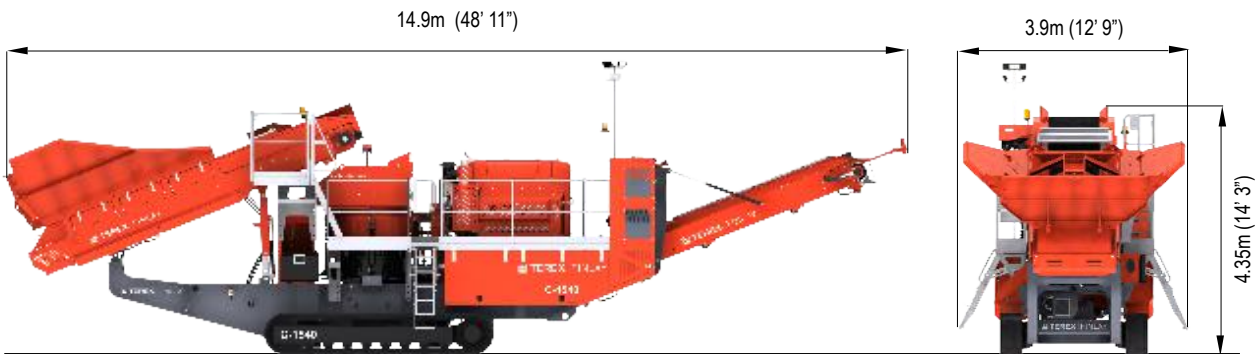
- ▶ Shoe Width: 400mm (16")
- ▶ Sprocket Centres: 3.24m (10' 8")
- ▶ Tracking Speed: 1.3 km/h
- ▶ Gradeability: 25°

Metal Contaminants Purge Chute

TRANSPORT DIMENSIONS



WORKING DIMENSIONS



MACHINE WEIGHT: **33,500kg (73,855lbs)**
without options

For further information on specific machine weight configurations please consult Terex Finlay

