

# C-1554

## CONE CRUSHER



Cone Head Diameter: 1380mm (54")

Net Engine Power: Tier 2:  
Stage V:

Portability: Tracked

Operating Weight: 61,060kg (134,614lbs) (With optional hopper extensions)

Caterpillar C18 Acert 571kW (765hp)

Scania DC13 478kW (650hp)

# SPECIFICATION

## HOPPER / FEEDER

Hopper capacity: 8m<sup>3</sup> (10.4yd<sup>3</sup>)

Feed height: 3.4m (11' 2")

Feed height with optional hopper extensions: 3.8m (12' 6")

Hopper fabricated in 10mm mild steel plate with combination of 15mm, 10mm and 6mm wear resistant steel liners at impact point

Hopper Width at rear: 2.5m (8' 2")

Hopper Width at rear with optional hopper extensions: 4.16m (13' 8")

Belt Spec: Plain

Belt Width: 1.2m (48")

Speed range: variable, 0 - 43 m/min (0 - 141 ft/min)

Working Angle: 22°

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.

Note:- If the metal detection system is de-selected, this is not applicable

## CONE CHAMBER

Terex MVP450x 1380mm (54") cone chamber

Cone Counter Shaft Speed Range:

661 - 816 rpm (56T pulley) - Standard

755 - 933 rpm (64T pulley) Application specific option

Variable speed control settings for producing a quality aggregate

Drive arrangement: Direct drive via clutch and belts

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

Unrestricted feed opening reduces blockages, bridging and maximizes output



Hopper and Feeder



Hopper and Feeder



Cone Chamber



Cone Chamber

## CONE CHAMBER continued

Integrated 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

Liner Configuration	Maximum Feed Size	Maximum CSS	Minimum Recommended
Coarse - Medium	280mm (11")	75mm (3")	19mm (3/4")
Medium - Medium	255mm (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")	13mm (1/2")
Extra Fine - Medium	180mm (7")	50mm (2")	6mm (1/4")

Note: All max feed sizes are stated for new liners, feed size will reduce by 30% over life of the liners.

## MAIN CONVEYOR

Belt Width: 1.2m (48")

Belt Spec: Plain

Working Angle: 26°

Speed: 108-114 m/min (354-374 ft/min)

Discharge Height: 3.55m (11' 8")

Twin Drive Head Drum

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

Stockpile capacity: 69.4m<sup>3</sup> (90.8yds<sup>3</sup>) @ 40°

## POWERPACK

Tier 2: Caterpillar C18 ACERT

Engine Power: 571kW (765hp)

Engine Speed : 1700 - 2100 rpm

Stage V: Scania DC16

Engine Power: 478kW (650hp)

Engine Speed : 1700 - 2100 rpm

## TANK CAPACITIES

Hydraulic Tank: 850 litres / 187 UK gal / 225 US gal

Fuel Tank: 1100 litres / 242 UK gal / 290 US gal

## UNDERCARRIAGE

Shoe Width: 500mm (20")

Sprocket Centres: 4.2m (13' 8")

Tracking Speed: 1.1 km/h

Gradeability: 25°



Main Conveyor



Main Conveyor



Powerpack

## TOOL BOX

Mounted lockable toolbox

Tool kit supplied

## CHUTES

Cone chamber feed box fabricated in mostly 5mm mild steel plate with 15mm wear resistant steel sections at high impact areas

Cone chamber discharge chute fabricated in 10mm mild steel plate with 15mm wear resistant steel liners at impact point

Contamination chute fabricated in 6mm mild steel plate

Note: If metal detection system is de-selected the contamination chute will not be fitted.

## 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 engine 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

## PLATFORMS

Galvanised catwalks and ladders for full maintenance and service access

Catwalks on both sides of the machine

Compact folding for transport

## REMOTE CONTROL UNIT (OPTIONAL)

Full function radio remote unit:

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



Undercarriage



Undercarriage



Control System

## STANDARD FEATURES

### ENGINE:

Tier 2 (Equivalent):- Caterpillar C18 ACERT 571kW (765hp) (Engines are available to meet EPA emission standards under CFR 1039.625)

Stage V: Scania DC16 478kW (650hp)

### CONE CHAMBER:

Terex MVP450X

Coarse-Medium Liners, Medium Mantle & Coarse concave 18% (max feed 280mm)

Direct cone drive via clutch

### HOPPER / FEEDER:

Fixed hopper c/w wear resistant liner plates

Belt width: 1.2m (48")

Metal detector & Metal contaminants purge system

### MAIN CONVEYOR:

Belt width: 1.2m (48")

Dust covers

### CLIMATE SPEC:

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

### DUST SUPPRESSION:

Piped for dust suppression c/w spraybars

### ELECTRICAL:

Emergency stops

Hand held track control set with connection lead

T-Link Telemetry System fitted c/w 7 years data subscription

### GENERAL:

Safety guards in compliance to machinery directive

One auxiliary drive

## OPTIONAL EQUIPMENT

Alternative Cone Liners - Note extended lead time. Contact Sales Department

Camera & Viewing screen

Hydraulic hopper extensions

Remove Metal detector from feeder, along with purge chute. Note: The non-selection of the metal detector is at your own risk. Any damage caused to the chamber by tramp metal in the feed will be non-warrantable.

Belt weigher

Stockpile level sensor

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

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

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

Hydraulic driven water pump

Electric Re-fuelling pump

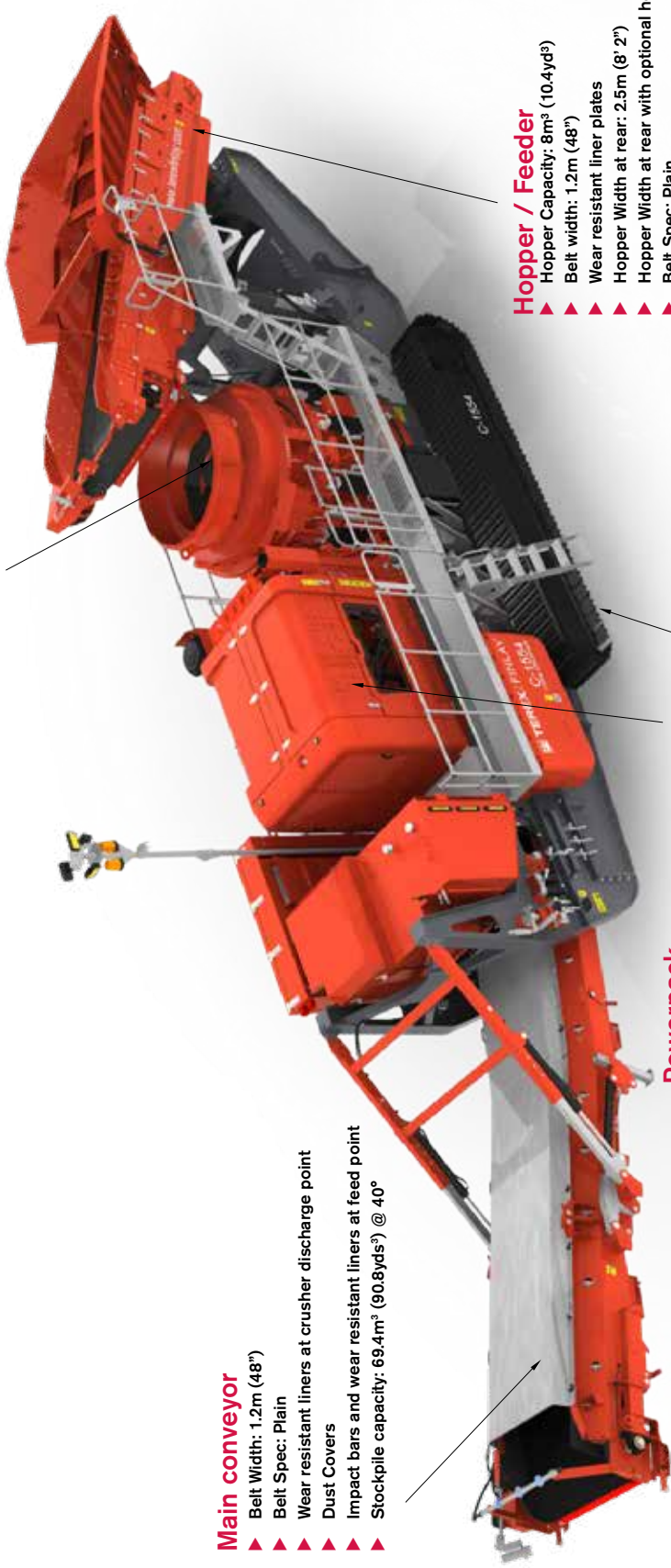
Radio remote system

Control panel positive air pressurization

Lighting mast

Base system, contains all hardware, 2 x cameras and tablet with attachments

Crusher expansion kit, contains all hardware and 2 x cameras



### Cone chamber

- ▲ Terex MVP450X 1380mm (54")
- ▲ Range of liner configurations available, 18%, max feed size dependent on liner configuration and wear
- ▲ Direct cone drive via clutch and belts
- ▲ Cone Counter Shaft Speed Range: 700 - 1000 rpm
- ▲ Variable speed control settings for producing a quality aggregate
- ▲ Hydraulically adjustable closed side setting with monitoring system
- ▲ Hydraulic overload protection with automatic reset.

### Main conveyor

- ▲ Belt Width: 1.2m (48")
- ▲ Belt Spec: Plain
- ▲ Wear resistant liners at crusher discharge point
- ▲ Dust Covers
- ▲ Impact bars and wear resistant liners at feed point
- ▲ Stockpile capacity: 69.4m<sup>3</sup> (90.8yds<sup>3</sup>) @ 40°

### Hopper / Feeder

- ▲ Hopper Capacity: 8m<sup>3</sup> (10.4yd<sup>3</sup>)
- ▲ Belt width: 1.2m (48")
- ▲ Wear resistant liner plates
- ▲ Hopper Width at rear: 2.5m (8' 2")
- ▲ Hopper Width at rear with optional hopper extensions: 4.16m (13' 8")
- ▲ Belt Spec: Plain
- ▲ Belt Width: 1.2m (48")
- ▲ Speed range: variable, 0 - 43 m/min (0 - 141 ft/min)
- ▲ 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
- ▲ Automatic variable speed conveyor ensures maximum output from plant

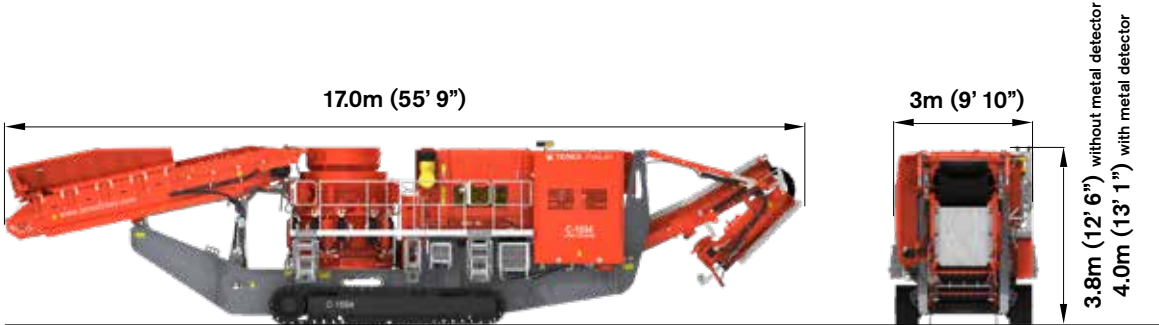
### Undercarriage

- ▲ Shoe Width: 500mm (20")
- ▲ Sprocket Centres: 4.2m (13' 8")
- ▲ Tracking Speed: 1.1 km/h
- ▲ Gradeability: 25°

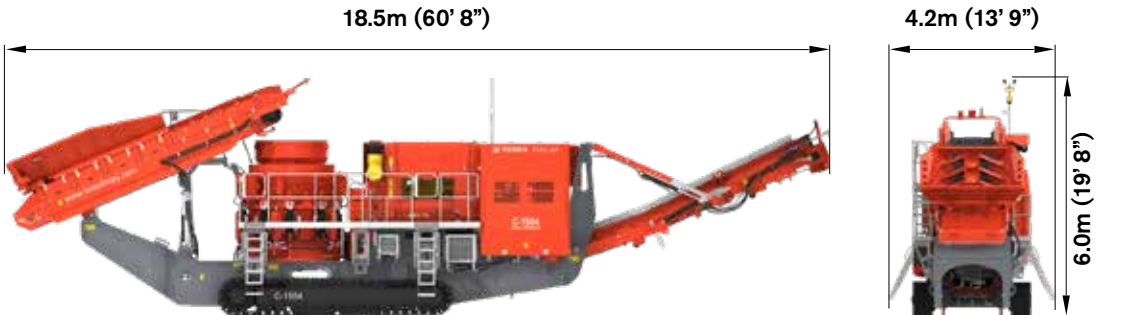
### Powerpack

- ▲ Tier 2: Caterpillar C18 ACERT 571kW (765hp)
- ▲ Engine Power: 571kW (765hp)
- ▲ Engine Speed : 1700 - 2000 rpm
- ▲ Stage V: Scania DC16
- ▲ Engine Power: 478kW (650hp)

**TRANSPORT DIMENSIONS**



**WORKING DIMENSIONS**



**MACHINE WEIGHT:** 60,260kg (132,850lbs)  
without options  
61,060kg (134,614lbs)  
with optional hopper extensions

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

