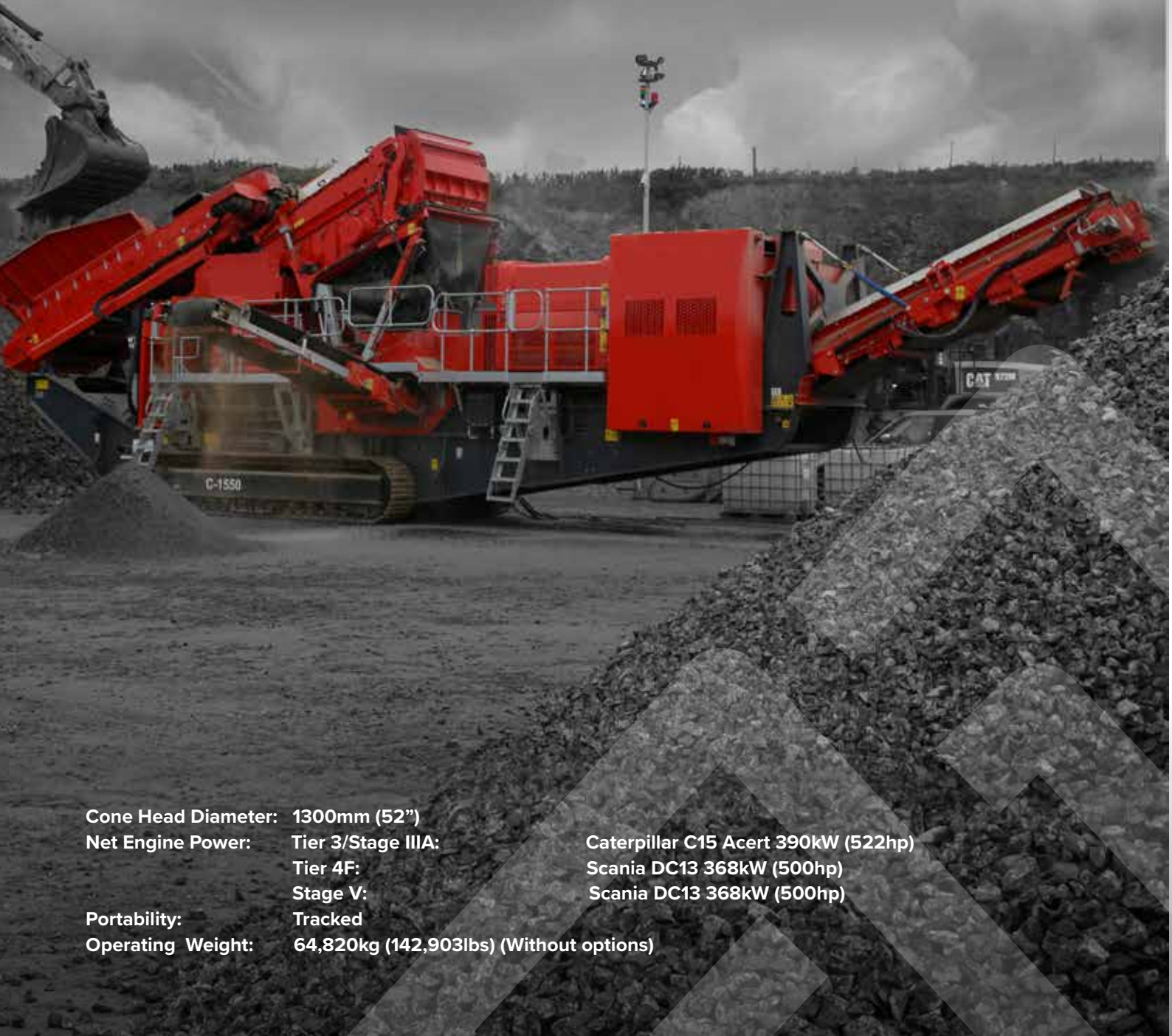


# C-1550P

## CONE CRUSHER



Cone Head Diameter: 1300mm (52")

Net Engine Power: Tier 3/Stage IIIA:

Tier 4F:

Stage V:

Portability:

Tracked

Operating Weight: 64,820kg (142,903lbs) (Without options)

Caterpillar C15 Acert 390kW (522hp)

Scania DC13 368kW (500hp)

Scania DC13 368kW (500hp)

STRONG **HERITAGE**, STRONG **FUTURE**

 **FINLAY**®  
A TEREX BRAND

# SPECIFICATION

## HOPPER / FEEDER

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

Feed height: 3.6m (11' 10") (Pre-screen position), 3.3m (10' 10") (Direct feed position)

Feed height with optional hopper extensions: 4.0m (13' 1") (Pre-screen position), 3.7m (12' 2") (Direct feed position)

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: 24° (Pre-screen feed), 22° (Direct feed)

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 1300mm (52") cone chamber

Cone Counter Shaft Speed Range: 690 - 760 rpm

Variable speed control settings for producing a quality aggregate

Drive arrangement: Direct drive via clutch, drive shaft 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

Unrestricted feed opening reduces blockages, bridging and maximizes output



Hopper and Feeder



Hopper and Feeder



Cone Chamber



Cone Chamber



## CONE CHAMBER continued

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

Concave	Maximum Feed Size	Maximum CSS	Minimum Recommended CSS
Medium coarse	220mm (8 1/2")	44mm (1 3/4")	24mm (15/16")
Sand	63mm (2 1/2")	30mm (1 3/16")	13mm (1/2")

\*Note: Minimum Recommended CSS subject to feed conditions

## MAIN CONVEYOR

Belt Width: 1.2m (48")

Belt Spec: Plain

Working Angle: 26°

Speed: 115 – 135 m/min (377 – 442ft/min)

Discharge Height: 3.8m (12' 6")

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: 81.6m<sup>3</sup> (106.7yd<sup>3</sup>) @ 40°



Main Conveyor

## POWERPACK

Tier 3 / Stage IIIA : Caterpillar C15 ACERT

Engine Power: 390kW (522hp)

Engine Speed : 1475 - 1625 rpm

Tier 4F: Scania DC13

Engine Power: 368kW (500hp)

Engine Speed: 1475 - 1625 rpm

Stage V: Scania DC13

Engine Power: 368kW (500hp)

Engine Speed: 1475 - 1625 rpm

## TANK CAPACITIES

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

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

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



Powerpack

## PRE-SCREEN MODULE

### A) Screen

Top deck: 2.45m x 1.53m (8' x 5')

Total screening area: 3.72m<sup>2</sup> (40ft<sup>2</sup>)

Tensioning top deck: side

Drive: hydraulic with heavy duty bearing

Screen Angle: 23°

Screen Speed: 1200 rpm

The pre-screen module will maximise production through the cone by removing as much fine material as possible before it enters the cone chamber. This will also reduce wear within the cone chamber.

Pre-screen can be by-passed and material feed directly into cone if required

Hydraulically folds for transport

### B) Transfer Conveyor

Belt Width: 1.2m (48")

Belt Spec: Plain

Working Angle: 21°

Speed: 85 – 95 m/min (278 – 311 ft/min)

Hydraulically folds for transport along with pre-screen

Can be raised hydraulically to aid screen mesh changing

Dust cover

Full length skirting to head drum

## PRE-SCREEN SIDE CONVEYOR (OPTIONAL)

Belt Width: 650mm (26")

Belt Spec: Plain

Working Angle: 18°

Speed: Variable speed, 0 - 115 m/min (0 - 377 ft/min)

Hydraulically folds for transport

Discharge Height: 2.8m (9' 2")

Stockpile capacity: 32.6m<sup>3</sup> (42.6yds<sup>3</sup>) @ 40°

## UNDERCARRIAGE

Shoe Width: 500mm (20")

Sprocket Centres: 4.2m (13' 8")

Tracking Speed: 1.1 km/h

Gradeability: 25°



Pre-Screen Module (Optional)



Undercarriage

## 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 10mm mild steel plate with 15mm wear resistant steel liners 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 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
- Tracking



Chutes



Control System



Platforms

## STANDARD FEATURES

### ENGINE:

Tier 3 / Stage IIIA: Caterpillar C15 ACERT 390kW (522hp)

Tier 4 Final: Scania DC13 368kW (500hp)

Stage V: Scania DC13 368kW (500hp)

### CONE CHAMBER:

Terex TC1300

Medium coarse concave (max feed size 220mm)

Direct drive via clutch

### HOPPER / FEEDER:

Fixed hopper c/w wear resistant liner plates

Belt width: 1200mm (48")

Metal detector & Metal contaminants purge system

### MAIN CONVEYOR:

Belt width: 1.2m (48")

Dust covers

### PRE-SCREEN:

2.45m x 1.52m (8' x 5') single deck screen. 25mm aperture mesh fitted, unless specified otherwise. Max feed size 200mm

### 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

Sand concave - max feed size 63mm (check leadtime) <sup>1</sup>

Camera & Viewing screen

Hydraulic hopper extensions

Belt weigher

Stockpile level sensor

Side conveyor

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

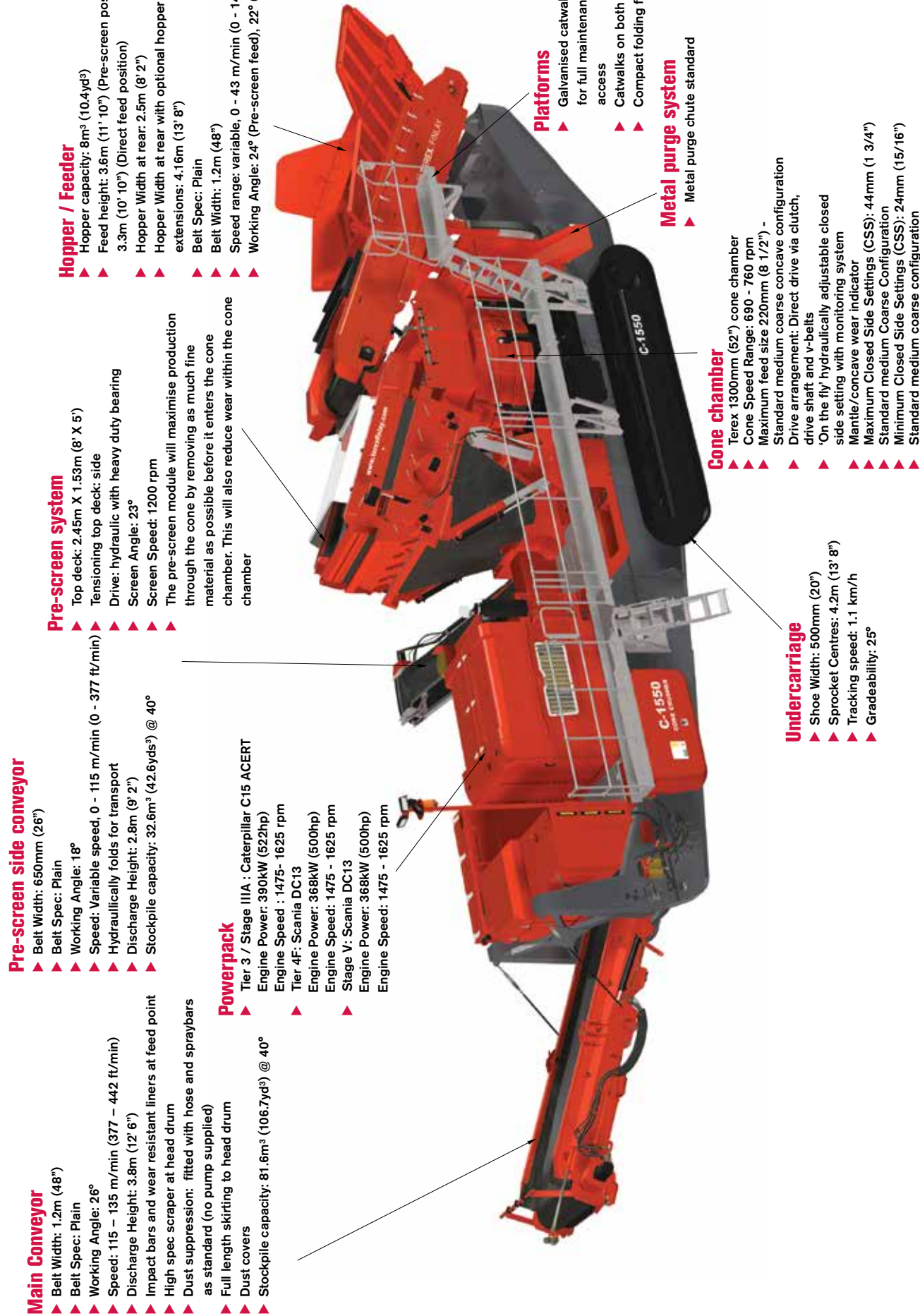
Control panel positive air pressurization

Lighting mast

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

Crusher expansion kit, contains all hardware and 2 x cameras





### Main Conveyor

- ▶ Belt Width: 1.2m (48")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 26°
- ▶ Speed: 115 - 135 m/min (377 - 442 ft/min)
- ▶ Discharge Height: 3.8m (12' 6")
- ▶ 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: 81.6m<sup>3</sup> (106.7yd<sup>3</sup>) @ 40°

### Pre-screen side conveyor

- ▶ Belt Width: 650mm (26")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 18°
- ▶ Speed: Variable speed, 0 - 115 m/min (0 - 377 ft/min)
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 2.8m (9' 2")
- ▶ Stockpile capacity: 32.6m<sup>3</sup> (42.6yd<sup>3</sup>) @ 40°

### Pre-screen system

- ▶ Top deck: 2.45m X 1.53m (8' X 5')
- ▶ Tensioning top deck: side
- ▶ Drive: hydraulic with heavy duty bearing
- ▶ Screen Angle: 23°
- ▶ Screen Speed: 1200 rpm
- ▶ The pre-screen module will maximise production through the cone by removing as much fine material as possible before it enters the cone chamber. This will also reduce wear within the cone chamber

### Powerpack

- ▶ Tier 3 / Stage IIIA : Caterpillar C15 ACERT  
Engine Power: 390kW (522hp)  
Engine Speed : 1475- 1625 rpm
- ▶ Tier 4F: Scania DC13  
Engine Power: 368kW (500hp)  
Engine Speed: 1475 - 1625 rpm
- ▶ Stage V: Scania DC13  
Engine Power: 368kW (500hp)  
Engine Speed: 1475 - 1625 rpm

### Hopper / Feeder

- ▶ Hopper capacity: 8m<sup>3</sup> (10.4yd<sup>3</sup>)
- ▶ Feed height: 3.6m (11' 10") (Pre-screen position), 3.3m (10' 10") (Direct feed position)
- ▶ 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: 24° (Pre-screen feed), 22° (Direct feed)

### Platforms

- ▶ Galvanised catwalks and ladders for full maintenance and service access
- ▶ Catwalks on both sides of the machine
- ▶ Compact folding for transport

### Metal purge system

- ▶ Metal purge chute standard

### Cone chamber

- ▶ Terex 1300mm (52") cone chamber
- ▶ Cone Speed Range: 690 - 760 rpm
- ▶ Maximum feed size 220mm (8 1/2") - Standard medium coarse concave configuration
- ▶ Drive arrangement: Direct drive via clutch, drive shaft and v-belts
- ▶ 'On the fly' hydraulically adjustable closed side setting with monitoring system
- ▶ Mantle/concave wear indicator
- ▶ Maximum Closed Side Settings (CSS): 44mm (1 3/4")
- ▶ Standard medium Coarse Configuration
- ▶ Minimum Closed Side Settings (CSS): 24mm (15/16")
- ▶ Standard medium coarse configuration

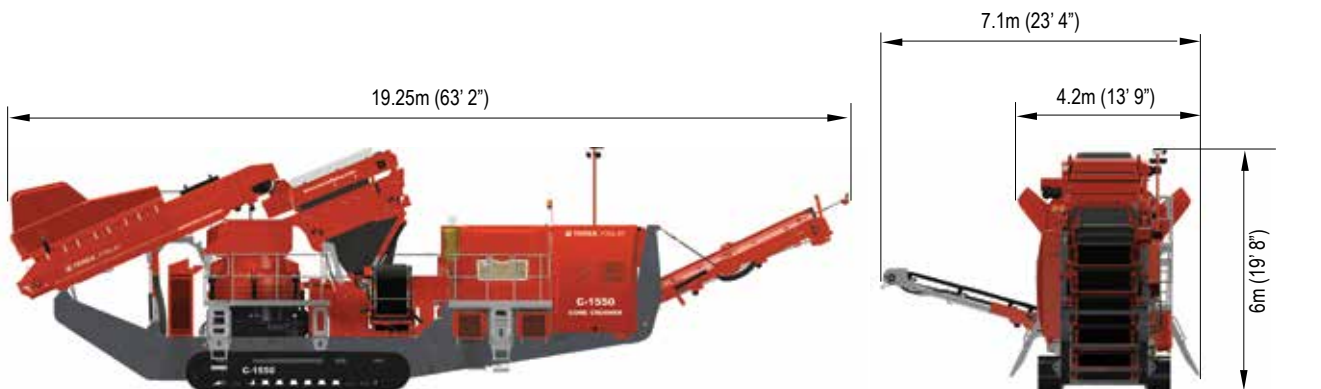
### Undercarriage

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

## TRANSPORT DIMENSIONS



## WORKING DIMENSIONS



## MACHINE WEIGHT:

**64,820kg (142,903lbs)**

without options

**66,320kg (146,210lbs)**

with optional pre-screen side conveyor

**67,120kg (147,974lbs)**

with optional pre-screen side conveyor, hopper extensions, hot climate cooler pack & hydraulically driven water pump

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