

# FINLAY

# CONE CRUSHER



**C-1550P**



**BELL**

# C-1550P

The Finlay C-1550 incorporates the proven Terex 1300 cone crusher driven through by direct drive. The machine features an patent pending optional pre-screen module with a single deck 2.45m x 1.53m (8' x 5') screen for removal or bypass of fines from the feed material. The integrated chute system, below the pre-screen, allows the fines material to be discharged from the machine using the optional by-pass conveyor or reintroduced onto the main product conveyor. Both methods improve the overall plant throughput capacity, product flexibility and liner wear reduction. The cone features variable speed drive, hydraulic tramp relief system and ability to change closed side setting while crushing. The large hopper/feeder has an automated metal detection and a purge system to protect the cone and reduce downtime by removing metal contaminants via the purge chute.

The hydraulically adjustable feed conveyor allows the machine to be operated using either the innovative pre-screen system or if required by feeding directly into the cone.

## Main Conveyor

- ▶ Belt Width: 1.2m (48")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 26°
- ▶ Speed: 115 – 130 m/min (377 – 426 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 level sensor
- ▶ Stockpile capacity: 81.6m<sup>3</sup> (106.7yd<sup>3</sup>) @ 40°

## Pre-screen side conveyor

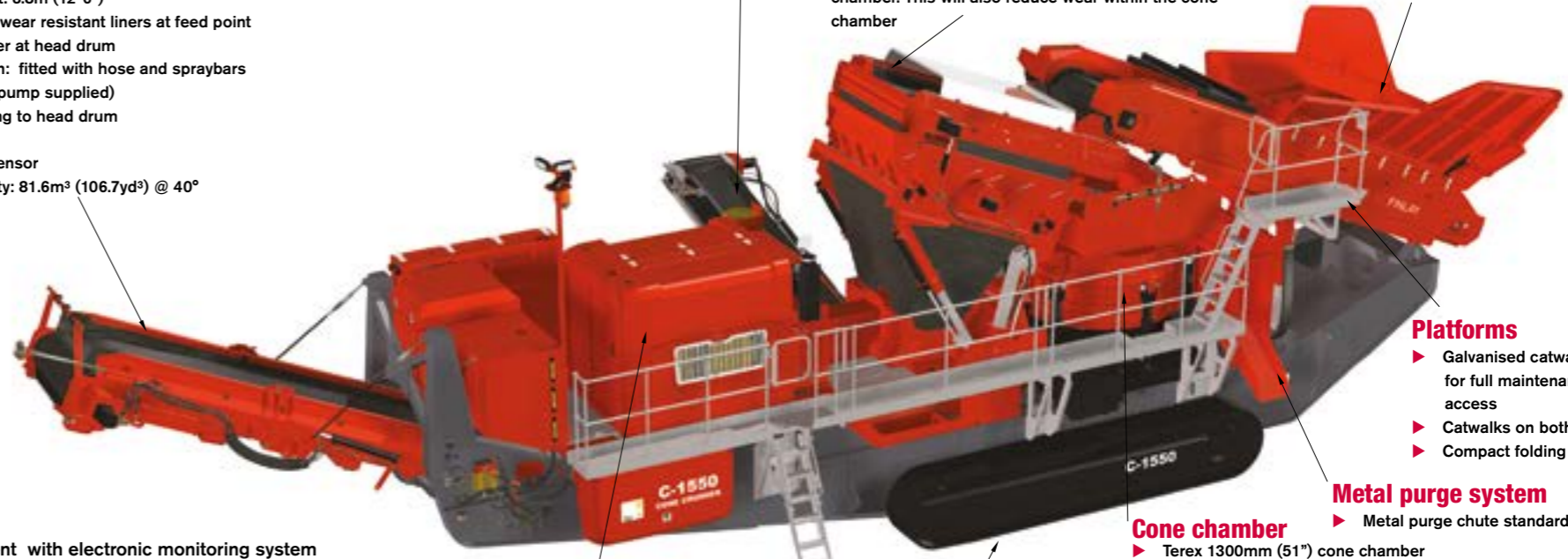
- ▶ Belt Width: 650mm (26")
- ▶ Belt Spec: Plain
- ▶ Working Angle: 18°
- ▶ Speed: Variable speed, 0 - 115 m/min (0 - 377 ft/min)
- ▶ Hydraulically folds for transport
- ▶ Discharge Height: 2.8m (9' 2")
- ▶ Stockpile capacity: 32.6m<sup>3</sup> (42.6yd<sup>3</sup>) @ 40°

## 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

## 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 (51") cone chamber
- ▶ Cone Speed Range: 690 - 760 rpm
- ▶ Maximum feed size 220mm (8 2/3") - 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°

## Powerpack

- ▶ Tier 3 / Stage IIIA : Caterpillar C15 ACERT Engine Power: 390kW (522hp) Engine Speed : 1480 - 1620 rpm
- ▶ Tier 4F / Stage IV: Scania DC13 Engine Power: 368kW (500hp) Engine Speed: 1475 - 1625 rpm

## Features:

- ▶ Fully Hydraulic CSS Adjustment with electronic monitoring system ensures ease of operation.
- ▶ Fuel efficient direct drive transmission through wet clutch.
- ▶ Hydraulic Tramp Relief System with automatic reset protects the chamber and minimises downtime.
- ▶ Metal detection system on feed belt with 'auto-stop' protects the cone from tramp metal and the controllable purge system removes metal contaminants via the purge chute.



## STANDARD FEATURES

### Engine:

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

Tier 4F / Stage IV: Scania DC13 368kW (500hp)

### Cone:

Terex 1300 Cone chamber, 1300mm (51") head diameter

Medium coarse concave (max feed size 220mm)

Direct cone drive via wet clutch

### Hopper / Feeder:

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

Belt width: 1.2m (48")

Metal detector

Metal contaminants purge system

Wear resistant liner plates

### Main Conveyor:

Belt width: 1.2m (48")

High spec scraper at head drum

Wear resistant liners at crusher discharge point

Dust Covers

### Pre-Screen System:

2.45m x 1.53m (8' x 5') single deck screen

Top deck mesh fitted to screen - 25mm aperture fitted unless specified otherwise

1.2m (48") transfer conveyor belt

Dust covers

### General:

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

Heavy duty track unit, sprocket centres 3.8m, pad width 500mm

Hand held track control set with connection lead

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

Safety guards in compliance to machinery directive

One auxiliary drive

Emergency stops

Piped for dust suppression c/w spraybars

Electric re-fuelling pump

## Transport Dimensions



## Working Dimensions



Machine Weight: \* 67,120kg (147,975lbs)

\* with optional pre-screen side conveyor & hopper extensions

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