

CONE CRUSHER



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C-1550

The Terex 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 1.52m (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.

STANDARD FEATURES

Engine:

Tier 3 / Stage IIIA:- Caterpillar C15 ACERT 522hp (390kW)
(Engines are available to meet both US EPA emission standards, under CFR 1039.625 and EU flexibility provisions of Directive 97/68/EC)

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: 8m³ (10.4yd³)
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
Stockpile sensor

Pre-Screen System:

2.45m x 1.52m (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
Two speed tracking
Safety guards in compliance to machinery directive
Two auxiliary drives
Emergency stops
Piped for dust suppression c/w spraybars
Electric re-fuelling pump

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: 81.6m³ (106.7yd³) @ 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: 32.6m³ (42.6yds³) @ 40°

Powerpack

- ▶ Tier 3 / Stage IIIA : Caterpillar C15 ACERT
Engine Power: 522hp (390kW)
Engine Speed: 1620 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.



Machine Weight:
64,500kg (142,198lbs) with optional pre-screen
66,000kg (145,505lbs) with optional pre-screen & side conveyor
67,000kg (147,710lbs) with optional pre-screen, side conveyor, hopper extensions, hot climate cooler pack & hydraulically driven water pump

Pre-screen system

- ▶ Top deck: 2.45m X 1.52m (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: 8m³ (10.4yd³)
- ▶ 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

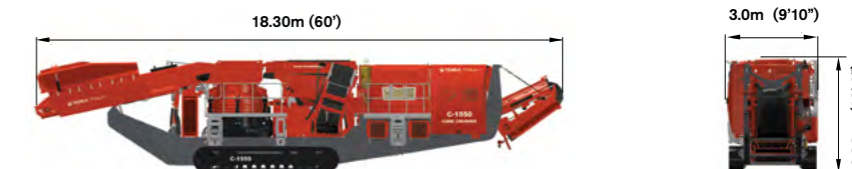
Cone chamber

- ▶ 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

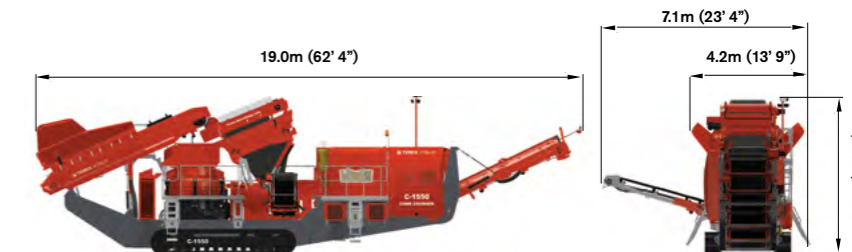
Undercarriage

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

Transport Dimensions



Working Dimensions



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