



# TEREX<sup>®</sup> | FINLAY



## C-1545 CONE CRUSHER

### SPECIFICATION:

Cone Head Diameter:

1150mm (45")

Net Engine Power: Tier 3 / Stage IIIA:

Caterpillar C13 Acert 328kW (440hp)

Stage IIIA Constant Speed:

Scania DC13 371kW (498hp)

Tier 4F / Stage IV:

Scania DC13 331kW (450hp)

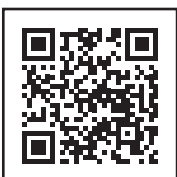
Portability:

Tracked

Operating Weight:

43,440kg (95,769lbs)\*

*\*Without options*



# SPECIFICATION

## HOPPER / FEEDER

Hopper capacity: 6m<sup>3</sup> (7.8yd<sup>3</sup>)

Feed height: 3.05m (10')

Feed height with optional hopper extensions: 3.25m (10' 8")

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

Hopper Width at rear: 2.25m (7' 5")

Hopper Width at rear with optional hopper extensions: 4.1m (13' 6")

Belt Spec: Plain

Belt Width: 1.3m (51")

Speed range: variable, 0-32 m/min (0-105 ft/min)

Working Angle: 19°

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

Tapered hopper and side barge boards to aid material flow

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 1150mm (45") cone chamber

Cone Counter Shaft Speed Range: 1550 - 1700 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

Unrestricted feed opening reduces blockages, bridging and maximizes output



Hopper and Feeder



Hopper and Feeder



Cone Chamber



Cone Chamber

Concave	Maximum Feed Size	Maximum CSS	Minimum Recommended CSS
Medium Coarse	180mm (7 1/16")	45mm (1 25/32")	18mm (23/32")
Extra Coarse	205mm (8 1/8")	45mm (1 25/32")	25mm (1")
Fine	110mm (4 5/16")	45mm (1 25/32")	14mm (9/16")

\*Note: Minimum Recommended CSS subject to feed conditions



## 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 outlet

## MAIN CONVEYOR

Belt Width: 1.0m (40")

Belt Spec: Plain

Working Angle: 23°

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)

Stockpile level sensor (Optional)

Stockpile capacity: 51.1m<sup>3</sup> (66.8yds<sup>3</sup>) @ 40°

## POWERPACK

Tier 3 / Stage IIIA : Caterpillar C13 ACERT

Engine Power: 328kW (440hp)

Engine Speed : 1750 - 1900 rpm

Stage IIIA Constant Speed: Scania DC13

Engine Power: 371kW (498hp)

Engine Speed : 1600 rpm

Tier 4F / Stage IV: Scania DC13

Engine Power: 331kW (450hp)

Engine Speed: 1550 - 1700 rpm

## TANK CAPACITIES

Hydraulic Tank: 660 litres / 145 UK gal / 174 US gal

Fuel Tank: 1000 litres / 220 UK gal / 264 US gal

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

## UNDERCARRIAGE

Shoe Width: 500mm (20")

Sprocket Centres: 3.80m (12' 6")

Tracking Speed: 1.1 km/h

Gradeability: 25°



Main Conveyor - shown with optional dust covers



Main Conveyor - shown with optional dust covers



Powerunit (Scania)



Undercarriage

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## TOOL BOX

Mounted lockable toolbox

Tool kit supplied

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

## CHUTES

Quick release cone feed box for cone wear part changes

Cone chamber feed box fabricated in 6mm mild steel plate

Cone chamber discharge chute fabricated in 10mm mild steel plate with 10mm 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
- Adjust feed conveyor speed
- Adjust engine rpm
- Metal purge sequence
- Tracking



Chutes



Platforms



**TEREX | FINLAY**

## STANDARD FEATURES

### ENGINE:

Tier 3 / Stage IIIA - Caterpillar C13 ACERT 328kW (440hp)

Stage IIIA Constant Speed: Scania DC13 371kW (498hp)

Tier 4 Final / Stage IV :- Scania DC13 331kW (450hp)

### CONE CHAMBER:

Terex TC1150

Long throw eccentric, medium coarse concave (max feed size 180mm)

Direct drive via clutch

### HOPPER / FEEDER:

Fixed hopper c/w wear resistant liner plates

Belt width: 1300mm (52")

Metal detector & Metal contaminants purge system

### MAIN CONVEYOR:

Belt width: 1000mm (40")

### 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 3 years data subscription

### GENERAL:

Safety guards in compliance to machinery directive

## OPTIONAL EQUIPMENT

Extra coarse concave - max feed size 205mm (check leadtime) <sup>1</sup>

Fine concave - max feed size 110mm (check leadtime) <sup>1</sup>

Short throw eccentric (check leadtime) <sup>1</sup>

Camera & Viewing screen

Hydraulic hopper extensions

Dust covers

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

Special paint colour (if different from Finlay Orange RAL 2002) . RAL must be specified on order

### Hopper / Feeder

- ▶ Hopper capacity: 6m<sup>3</sup> (7.8yd<sup>3</sup>)
- ▶ Feed height: 3.05m (10')
- ▶ Feed height with optional hopper extensions: 3.25m (10' 8")
- ▶ Hopper Width at rear: 2.27m (7' 5")
- ▶ Hopper Width at rear with optional hopper extensions: 4.1m (13' 6")
- ▶ Belt Spec: Plain
- ▶ Belt Width: 1.2m (48")
- ▶ Speed range: variable, 0-32 m/min (0-105 ft/min)
- ▶ Working Angle: 19°

### Platforms

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

### Powerpack

- ▶ Tier 3 / Stage IIIA : Caterpillar C13 ACERT  
Engine Power: 328kW (440hp)  
Engine Speed : 1750 - 1900 rpm
- ▶ Stage IIIA Constant Speed: Scania DC13  
Engine Power: 371kW (498hp)  
Engine Speed: 1600 rpm
- ▶ Tier 4F / Stage IV: Scania DC13  
Engine Power: 331kW (450hp)  
Engine Speed: 1550 - 1700 rpm

### Main conveyor

- ▶ Belt Width: 1.0m (40")
- ▶ Belt Spec: Plain
- ▶ Speed: 105 – 115 m/min (344 – 377 ft/min)
- ▶ Discharge Height: 3.3m (10' 10")

### Metal purge system

- ▶ Metal purge chute standard



### Cone chamber

- ▶ Terex 1150mm (45") cone chamber
- ▶ Cone Counter Shaft Speed Range: 1550 - 1700 rpm
- ▶ Variable speed control settings for producing a quality aggregate
- ▶ Drive arrangement: Direct drive via clutch and v-belts
- ▶ 'On the fly' hydraulically adjustable closed side setting with monitoring system
- ▶ Mantle/concave wear indicator

### Undercarriage

- ▶ Shoe Width: 500mm (20")
- ▶ Sprocket Centres: 3.80m (12' 6")
- ▶ Tracking Speed: 1.1 km/h
- ▶ Gradeability: 25°

**C-1545**



## TRANSPORT DIMENSIONS



## WORKING DIMENSIONS



**MACHINE WEIGHT:** **43,440kg (95,769lbs)**  
without options  
**44,440kg (97,974lbs)**  
with optional hopper extensions and main conveyor dust covers

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

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