

 **TEREX** | FINLAY

C-1540i HYBRID CONE CRUSHER



HYBRID
TECHNOLOGY



DIESEL



PERFORMANCE



ELECTRIC

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C-1540i HYBRID

The dual powered Terex Finlay C-1540i cone crusher offers operators the flexibility to power the plant either by mains electric connection or the onboard genset powerpack configuration. Either power option presents operators with significant power, servicing and maintenance cost savings.

This energy efficient and productive machine incorporates the proven Terex® 1000 cone crusher with direct electric drive, automatic tramp relief and hydraulic closed side setting (CSS) adjustment.

The dual powered Terex Finlay C-1540i can be fitted with an optional patented pre-screen module which allows fines materials to bypass prior to being fed to the crushing chamber offering better wear rates in the crushing chamber.

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.

Additional benefits include, rapid set up time, ease of maintenance, high reduction ratio, high output capacity and advanced electronic control system.

STANDARD FEATURES

Engine:

Stage IIIA (Tier 3) Constant Speed: Volvo TAD1351GE 274kW (367hp) with 1500RPM, Alternator: 320kVA

Tier 4F / Stage IV: Scania DC9 257kW (350hp) & IE3 Crusher Drive Electrical Motor. Alternator: 330kVA / 264kW

Cone:

Terex 1000 Cone chamber, 1000mm (40") head diameter

Long throw eccentric, medium coarse concave (max feed size 160mm)

Direct cone drive via electric motor

Hopper / Feeder:

Hopper capacity: 5m³ (6.5yd³)

Belt width: 1.05m (42")

Metal detector

Metal contaminants purge system

Wear resistant liner plates

Main Conveyor:

Belt width: 900mm (36")

High spec scraper at head drum

Wear resistant liners at crusher discharge point

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

Safety guards in compliance to machinery directive

Separate Hydraulic power-pack for CSS adjustment

Emergency stops

Piped for dust suppression c/w spray bars

Standard Oils - Recommended for ambient temperatures between +20° to +45°C

Main conveyor

- ▶ Belt Width: 900mm (36")
- ▶ Drive: Twin Electric Motor
- ▶ Belt Spec: Plain
- ▶ Working Angle: 21°
- ▶ Discharge Height: 3.3m (10' 10")
- ▶ Impact bars and wear resistant liners at feed point
- ▶ Standard Stockpile capacity: 53.5m³ (70yds³) @ 40°



Features:

- ▶ The plant's electrically driven power systems provide significant cost advantages and efficiencies.
- ▶ Superior performance in dusty applications and in high temperature environments.
- ▶ Optional pre-screen module maximises production and reduces wear on the chamber by removing fine material before it enters the cone.
- ▶ Metal detection system on feed belt with 'auto-stop' protects the cone from tramp metal and the purge system removes contaminants from the machine.



Pre-screen system (optional)

- ▶ Top deck: 1.83m x 1.22m (6' x 4')
- ▶ 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 Constant Speed: Volvo TAD1351GE
- ▶ Engine Power: 274kW (367hp)
- ▶ Engine Speed: 1500 rpm
- ▶ Alternator: 320kVA

Metal Detector



Hopper / Feeder

- ▶ Hopper capacity: 5m³ (6.5yd³)
- ▶ Hopper fabricated in 10mm mild steel plate with 10mm wear resistant steel liners at input point
- ▶ Hopper width at rear: 2.45m (8')
- ▶ Drive: Electric Motor
- ▶ Belt Width: 1.05m (42")

Metal purge chute

Cone chamber

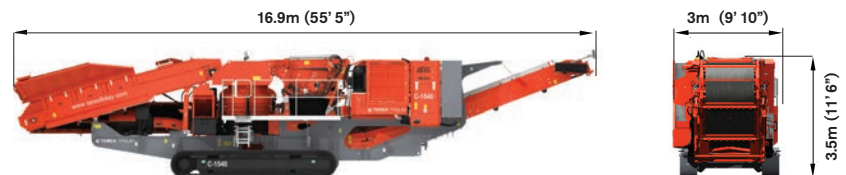
- ▶ Terex 1000mm (40") cone chamber
- ▶ Cone Counter Shaft Speed: 990 rpm
- ▶ Drive arrangement: Direct Electric Cone Drive

Undercarriage

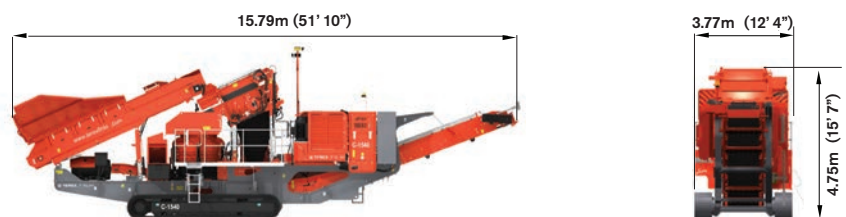
- ▶ Shoe Width: 500mm (20")
- ▶ Sprocket Centres: 3.80m (12' 6")
- ▶ Tracking Speed: 1.0km/h
- ▶ Gradeability: 25°



Transport Dimensions



Working Dimensions



Machine Weight: * 45,320kg (99,914lbs)
* with optional pre-screen



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